

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zacc RT (m/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 3460         | 3625            | 195.8933  | 195.71974    | 195.71974    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                  |
| 3470         | 3635            | 195.8933  | 195.73388    | 195.73388    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                  |
| 3480         | 3645            | 195.84724 | 195.78103    | 195.78103    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                  |
| 3490         | 3655            | 195.84825 | 195.77307    | 195.77307    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                  |
| 3500         | 3665            | 195.85234 | 195.75733    | 195.75733    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                  |
| 3510         | 3675            | 195.86671 | 195.72102    | 195.72102    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                  |
| 3520         | 3685            | 195.88782 | 195.70649    | 195.70649    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                  |
| 3530         | 3695            | 195.91033 | 195.71303    | 195.71303    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                  |
| 3540         | 3705            | 195.94656 | 195.71072    | 195.71072    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                  |
| 3550         | 3715            | 195.98636 | 195.69394    | 195.69394    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                  |
| 3560         | 3725            | 196.03809 | 195.66438    | 195.66438    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                  |
| 3570         | 3735            | 196.12788 | 195.64857    | 195.64857    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99383                                | Achieved          |                    | 100                                  |
| 3580         | 3745            | 196.21809 | 195.63643    | 195.63643    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99489                                | Achieved          |                    | 100                                  |
| 3590         | 3755            | 196.30408 | 195.62953    | 195.62953    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99481                                | Achieved          |                    | 100                                  |
| 3600         | 3765            | 196.44923 | 195.62343    | 195.62343    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99477                                | Achieved          |                    | 100                                  |
| 3610         | 3775            | 196.54256 | 195.62526    | 195.62526    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99474                                | Achieved          |                    | 100                                  |
| 3620         | 3785            | 196.60524 | 195.63964    | 195.63964    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99472                                | Achieved          |                    | 100                                  |
| 3630         | 3795            | 196.629   | 195.66398    | 195.66398    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9947                                 | Achieved          |                    | 100                                  |
| 3640         | 3805            | 196.64757 | 195.68178    | 195.68178    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99469                                | Achieved          |                    | 100                                  |
| 3650         | 3815            | 196.66996 | 195.70773    | 195.70773    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99469                                | Achieved          |                    | 100                                  |
| 3660         | 3825            | 196.68743 | 195.72781    | 195.72781    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99469                                | Achieved          |                    | 100                                  |
| 3670         | 3835            | 196.63263 | 195.72497    | 195.72497    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9947                                 | Achieved          |                    | 100                                  |
| 3680         | 3845            | 196.60618 | 195.83738    | 195.83738    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99472                                | Achieved          |                    | 100                                  |
| 3690         | 3855            | 196.61029 | 195.89549    | 195.89549    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99474                                | Achieved          |                    | 100                                  |
| 3700         | 3865            | 196.61454 | 195.96254    | 195.96254    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99478                                | Achieved          |                    | 100                                  |
| 3710         | 3875            | 196.60317 | 196.02868    | 196.02868    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99481                                | Achieved          |                    | 100                                  |
| 3720         | 3885            | 196.58234 | 196.06829    | 196.06829    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99486                                | Achieved          |                    | 100                                  |
| 3730         | 3895            | 196.55257 | 196.11628    | 196.11628    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99506                                | Achieved          |                    | 100                                  |
| 3740         | 3905            | 196.54366 | 196.12713    | 196.12713    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99499                                | Achieved          |                    | 100                                  |
| 3750         | 3915            | 196.51911 | 196.23498    | 196.23498    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98138                                | Achieved          |                    | 100                                  |
| 3760         | 3925            | 196.4961  | 196.29407    | 196.29407    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9679                                 | Achieved          |                    | 100                                  |
| 3770         | 3935            | 196.51443 | 196.36661    | 196.36661    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98134                                | Achieved          |                    | 100                                  |
| 3780         | 3945            | 196.53421 | 196.52707    | 196.52707    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.91779                                | Achieved          |                    | 100                                  |
| 3790         | 3955            | 196.54984 | 196.79263    | 196.79263    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.86377                                | Achieved          |                    | 100                                  |
| 3800         | 3965            | 196.57036 | 197.22497    | 197.22497    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.84383                                | Achieved          |                    | 100                                  |
| 3810         | 3975            | 196.59696 | 197.83328    | 197.83328    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.797                                  | Achieved          |                    | 100                                  |
| 3820         | 3985            | 196.61988 | 198.59828    | 198.59828    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.74908                                | Achieved          |                    | 100                                  |
| 3830         | 3995            | 196.65392 | 199.28959    | 199.28959    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.68233                                | Achieved          |                    | 100                                  |
| 3840         | 4005            | 196.70378 | 200.34784    | 200.34784    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.63007                                | Achieved          |                    | 100                                  |
| 3850         | 4015            | 196.76431 | 201.34372    | 201.34372    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.58986                                | Achieved          |                    | 100                                  |
| 3860         | 4025            | 196.82837 | 202.33344    | 202.33344    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.57867                                | Achieved          |                    | 100                                  |
| 3870         | 4035            | 196.90088 | 203.23419    | 203.23419    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.57836                                | Achieved          |                    | 100                                  |
| 3880         | 4045            | 196.94932 | 204.07356    | 204.07356    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.61224                                | Achieved          |                    | 100                                  |
| 3890         | 4055            | 196.99244 | 204.8094     | 204.8094     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.66042                                | Achieved          |                    | 100                                  |
| 3900         | 4065            | 197.03969 | 205.43572    | 205.43572    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.71897                                | Achieved          |                    | 100                                  |
| 3910         | 4075            | 197.09972 | 205.98167    | 205.98167    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.77033                                | Achieved          |                    | 100                                  |
| 3920         | 4085            | 197.16863 | 206.48791    | 206.48791    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.81073                                | Achieved          |                    | 100                                  |
| 3930         | 4088            | 197.22447 | 206.62636    | 206.62636    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 158                     | 137.84662                                | Released          | Vertical alignment | 100                                  |
| 3940         | 4082            | 197.33893 | 206.34819    | 206.34819    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 142                     | 141.8913                                 | Released          | Vertical alignment | 100                                  |
| 3950         | 4074            | 197.54106 | 205.93094    | 205.93094    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 124                     | 123.92929                                | Not Achieved      | Vertical alignment | 90                                   |
| 3960         | 4070            | 197.88923 | 205.7188     | 205.7188     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 110                     | 109.97726                                | Not Achieved      | Vertical alignment | 80                                   |
| 3970         | 4068            | 198.40806 | 205.60775    | 205.60775    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 98                      | 97.99879                                 | Not Achieved      | Vertical alignment | 70                                   |
| 3980         | 4068            | 199.0835  | 205.69775    | 205.69775    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 88                      | 88.02677                                 | Not Achieved      | Vertical alignment | 70                                   |
| 3990         | 4068            | 199.86329 | 205.69775    | 205.69775    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 78                      | 78.0231                                  | Not Achieved      | Vertical alignment | 60                                   |
| 4000         | 4072            | 200.78962 | 205.82918    | 205.82918    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 72                      | 72.02796                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4010         | 4080            | 201.73867 | 206.24273    | 206.24273    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 70                      | 70.0223                                  | Not Achieved      | Vertical alignment | 60                                   |
| 4020         | 4094            | 202.73247 | 206.88441    | 206.88441    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 74                      | 74.07072                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4030         | 4102            | 203.68838 | 207.12918    | 207.12918    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 72                      | 72.07713                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4040         | 4106            | 204.56366 | 207.19092    | 207.19092    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 66                      | 66.06477                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4050         | 4110            | 205.37641 | 207.22176    | 207.22176    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 60                      | 60.04178                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4060         | 4114            | 206.0342  | 207.22338    | 207.22338    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 54                      | 53.99468                                 | Not Achieved      | Vertical alignment | 50                                   |
| 4070         | 4124            | 206.61888 | 207.19358    | 207.19358    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 34                      | 33.90937                                 | Not Achieved      | Vertical alignment | 30                                   |
| 4080         | 4072            | 207.14473 | 206.786      | 206.786      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 60                      | 59.77018                                 | Not Achieved      | Vertical alignment | 30                                   |
| 4090         | 4164            | 207.61929 | 205.88978    | 205.88978    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 74                      | 73.56833                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4100         | 4210            | 207.97673 | 208.72833    | 208.72833    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 110                     | 109.43222                                | Not Achieved      | Vertical alignment | 80                                   |
| 4110         | 4228            | 208.12176 | 202.71577    | 202.71577    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 118                     | 117.50777                                | Not Achieved      | Vertical alignment | 80                                   |
| 4120         | 4283            | 208.08956 | 200.00843    | 200.00843    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.6398                                 | Achieved          |                    | 100                                  |
| 4130         | 4293            | 207.933   | 199.60089    | 199.60089    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.7688                                 | Achieved          |                    | 100                                  |
| 4140         | 4305            | 207.8868  | 199.23069    | 199.23069    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.86339                                | Achieved          |                    | 100                                  |
| 4150         | 4315            | 207.86104 | 198.89749    | 198.89749    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.93946                                | Achieved          |                    | 100                                  |
| 4160         | 4326            | 208.04613 | 198.54023    | 198.54023    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98136                                | Achieved          |                    | 100                                  |
| 4170         | 4333            | 208.30181 | 198.44349    | 198.44349    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98292                                | Achieved          |                    | 100                                  |
| 4180         | 4343            | 208.08889 | 198.30073    | 198.30073    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98138                                | Achieved          |                    | 100                                  |
| 4190         | 4353            | 208.63137 | 198.22957    | 198.22957    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99677                                | Achieved          |                    | 100                                  |
| 4200         | 4363            | 209.18859 | 198.20293    | 198.20293    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.0023                                 | Achieved          |                    | 100                                  |
| 4210         | 4375            | 204.62833 | 198.19773    | 198.19773    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00249                                | Achieved          |                    | 100                                  |
| 4220         | 4385            | 204.06638 | 198.18936    | 198.18936    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00249                                | Achieved          |                    | 100                                  |
| 4230         | 4395            | 205.30641 | 198.17336    | 198.17336    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00248                                | Achieved          |                    | 100                                  |
| 4240         | 4405            | 206.09818 | 198.18077    | 198.18077    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00248                                | Achieved          |                    | 100                                  |
| 4250         | 4415            | 207.3031  | 198.12964    | 198.12964    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00248                                | Achieved          |                    | 100                                  |
| 4260         | 4425            | 208.01443 | 198.12346    | 198.12346    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00248                                | Achieved          |                    | 100                                  |
| 4270         | 4433            | 201.33083 | 198.08611    | 198.08611    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99406                                | Achieved          |                    | 100                                  |
| 4280         | 4443            | 201.11178 | 198.0154     | 198.0154     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99393                                |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zacc RT (m/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 4720         | 4885            | 197.09127 | 181.6625     | 181.6625     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.10944                                | Achieved          |                    | 100                                  |
| 4730         | 4895            | 196.05092 | 181.29879    | 181.29879    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.13927                                | Achieved          |                    | 100                                  |
| 4740         | 4905            | 194.90319 | 180.98703    | 180.98703    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.10169                                | Achieved          |                    | 100                                  |
| 4750         | 4915            | 193.64617 | 180.70822    | 180.70822    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.03087                                | Achieved          |                    | 100                                  |
| 4760         | 4925            | 192.34248 | 180.44231    | 180.44231    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99803                                | Achieved          |                    | 100                                  |
| 4770         | 4935            | 191.0482  | 180.23761    | 180.23761    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.93968                                | Achieved          |                    | 100                                  |
| 4780         | 4945            | 189.80437 | 180.04604    | 180.04604    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.93964                                | Achieved          |                    | 100                                  |
| 4790         | 4955            | 188.63823 | 179.87083    | 179.87083    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.93961                                | Achieved          |                    | 100                                  |
| 4800         | 4965            | 187.60606 | 179.62892    | 179.62892    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.93939                                | Achieved          |                    | 100                                  |
| 4810         | 4975            | 186.71828 | 179.44661    | 179.44661    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98815                                | Achieved          |                    | 100                                  |
| 4820         | 4985            | 185.98458 | 179.25498    | 179.25498    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.93642                                | Achieved          |                    | 100                                  |
| 4830         | 4995            | 185.33632 | 179.08649    | 179.08649    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.92018                                | Achieved          |                    | 100                                  |
| 4840         | 5005            | 184.71923 | 178.93201    | 178.93201    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.87979                                | Achieved          |                    | 100                                  |
| 4850         | 5015            | 184.17687 | 178.89732    | 178.89732    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.82417                                | Achieved          |                    | 100                                  |
| 4860         | 5025            | 183.66622 | 178.90923    | 178.90923    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.73008                                | Achieved          |                    | 100                                  |
| 4870         | 5035            | 183.19107 | 178.32226    | 178.32226    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.64873                                | Achieved          |                    | 100                                  |
| 4880         | 5045            | 182.79617 | 178.06734    | 178.06734    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.52384                                | Achieved          |                    | 100                                  |
| 4890         | 5055            | 182.37801 | 177.81722    | 177.81722    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.37489                                | Achieved          |                    | 100                                  |
| 4900         | 5065            | 182.04012 | 177.57322    | 177.57322    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.20793                                | Achieved          |                    | 100                                  |
| 4910         | 5075            | 181.79449 | 177.23026    | 177.23026    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.01214                                | Achieved          |                    | 100                                  |
| 4920         | 181.66251       | 176.916   | 176.916      | 176.916      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.80047                                | Achieved          |                    | 100                                  |
| 4930         | 5095            | 181.24093 | 176.62236    | 176.62236    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.62026                                | Achieved          |                    | 100                                  |
| 4940         | 5105            | 181.03847 | 176.39359    | 176.39359    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.48446                                | Achieved          |                    | 100                                  |
| 4950         | 5106            | 180.83211 | 176.33757    | 176.33757    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 156                     | 194.3541                                 | Released          | Vertical alignment | 100                                  |
| 4960         | 5104            | 180.64491 | 176.39355    | 176.39355    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 144                     | 142.68838                                | Released          | Vertical alignment | 100                                  |
| 4970         | 5104            | 180.42885 | 176.39355    | 176.39355    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 134                     | 132.80152                                | Not Achieved      | Vertical alignment | 90                                   |
| 4980         | 5104            | 180.25443 | 176.39355    | 176.39355    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 124                     | 122.94549                                | Not Achieved      | Vertical alignment | 90                                   |
| 4990         | 5104            | 180.06501 | 176.39355    | 176.39355    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 114                     | 113.08881                                | Not Achieved      | Vertical alignment | 80                                   |
| 5000         | 5106            | 179.86532 | 176.33757    | 176.33757    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 106                     | 102.20201                                | Not Achieved      | Vertical alignment | 80                                   |
| 5010         | 5110            | 179.71182 | 176.60259    | 176.60259    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 100                     | 99.29938                                 | Not Achieved      | Vertical alignment | 80                                   |
| 5020         | 5112            | 179.49407 | 176.48079    | 176.48079    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 92                      | 91.41291                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5030         | 5118            | 179.32893 | 176.08813    | 176.08813    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 88                      | 87.51208                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5040         | 5124            | 179.09614 | 174.6723     | 174.6723     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 84                      | 83.60398                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5050         | 5134            | 178.8377  | 173.94837    | 173.94837    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 84                      | 83.67473                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5060         | 5140            | 178.60067 | 173.43532    | 173.43532    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 80                      | 79.74852                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5070         | 5148            | 178.31601 | 172.73481    | 172.73481    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 78                      | 77.79783                                 | Not Achieved      | Vertical alignment | 60                                   |
| 5080         | 5154            | 177.98991 | 172.14309    | 172.14309    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 74                      | 73.84219                                 | Not Achieved      | Vertical alignment | 60                                   |
| 5090         | 5161            | 177.61897 | 171.48479    | 171.48479    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 70                      | 69.86621                                 | Not Achieved      | Vertical alignment | 60                                   |
| 5100         | 5164            | 177.08302 | 171.00437    | 171.00437    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 64                      | 63.87276                                 | Not Achieved      | Vertical alignment | 60                                   |
| 5110         | 5172            | 176.30235 | 170.01443    | 170.01443    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 62                      | 61.86604                                 | Not Achieved      | Vertical alignment | 60                                   |
| 5120         | 5198            | 175.84954 | 166.82311    | 166.82311    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 78                      | 77.79233                                 | Not Achieved      | Vertical alignment | 60                                   |
| 5130         | 5254            | 173.14673 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 124                     | 123.54623                                | Not Achieved      | BRIDGE             |                                      |
| 5140         | 5254            | 174.33352 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 114                     | 113.60054                                | Not Achieved      | BRIDGE             |                                      |
| 5150         | 5254            | 173.44842 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 104                     | 103.63974                                | Not Achieved      | BRIDGE             |                                      |
| 5160         | 5254            | 172.39479 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 94                      | 99.71256                                 | Not Achieved      | BRIDGE             |                                      |
| 5170         | 5254            | 171.16124 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 84                      | 83.7296                                  | Not Achieved      | BRIDGE             |                                      |
| 5180         | 5254            | 169.93126 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 74                      | 73.80148                                 | Not Achieved      | BRIDGE             |                                      |
| 5190         | 5254            | 168.72288 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 64                      | 63.83882                                 | Not Achieved      | BRIDGE             |                                      |
| 5200         | 5254            | 167.46782 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 54                      | 53.87224                                 | Not Achieved      | BRIDGE             |                                      |
| 5210         | 5254            | 166.28968 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 44                      | 43.90234                                 | Not Achieved      | BRIDGE             |                                      |
| 5220         | 5254            | 165.16289 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 34                      | 33.92973                                 | Not Achieved      | BRIDGE             |                                      |
| 5230         | 5254            | 164.0706  | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 24                      | 23.93979                                 | Not Achieved      | BRIDGE             |                                      |
| 5240         | 5254            | 163.22027 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 14                      | 13.97397                                 | Not Achieved      | BRIDGE             |                                      |
| 5250         | 5254            | 162.73239 | 161.731      | 161.731      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 4                       | 3.9925                                   | Not Achieved      | BRIDGE             |                                      |
| 5260         | 5435            | 162.37182 | 167.73256    | 167.73256    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.07236                                | Achieved          |                    | 100                                  |
| 5280         | 5445            | 162.22092 | 168.34623    | 168.34623    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.11084                                | Achieved          |                    | 100                                  |
| 5290         | 5455            | 162.0333  | 168.98661    | 168.98661    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.0981                                 | Achieved          |                    | 100                                  |
| 5300         | 5465            | 161.9239  | 169.59437    | 169.59437    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.02099                                | Achieved          |                    | 100                                  |
| 5310         | 5475            | 161.82355 | 170.14561    | 170.14561    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.87162                                | Achieved          |                    | 100                                  |
| 5320         | 5485            | 161.83883 | 170.65678    | 170.65678    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.646                                  | Achieved          |                    | 100                                  |
| 5330         | 5495            | 162.1666  | 171.09066    | 171.09066    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.36401                                | Achieved          |                    | 100                                  |
| 5340         | 5505            | 162.63745 | 171.45942    | 171.45942    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.11894                                | Achieved          |                    | 100                                  |
| 5350         | 5510            | 163.19070 | 171.43108    | 171.43108    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 134                     | 133.20436                                | Released          | Vertical alignment | 100                                  |
| 5360         | 5504            | 163.72961 | 171.43108    | 171.43108    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 144                     | 143.27033                                | Released          | Vertical alignment | 100                                  |
| 5370         | 5504            | 164.33035 | 171.43108    | 171.43108    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 134                     | 133.34613                                | Not Achieved      | Vertical alignment | 90                                   |
| 5380         | 5506            | 164.97548 | 171.48371    | 171.48371    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 126                     | 123.39448                                | Not Achieved      | Vertical alignment | 90                                   |
| 5390         | 5506            | 165.68302 | 171.48371    | 171.48371    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 116                     | 113.50267                                | Not Achieved      | Vertical alignment | 80                                   |
| 5400         | 5508            | 166.18673 | 171.53417    | 171.53417    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 108                     | 107.60246                                | Not Achieved      | Vertical alignment | 80                                   |
| 5410         | 5508            | 166.85271 | 171.53417    | 171.53417    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 98                      | 97.7633                                  | Not Achieved      | Vertical alignment | 80                                   |
| 5420         | 5512            | 167.59818 | 171.63605    | 171.63605    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 92                      | 91.91022                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5430         | 5516            | 168.28616 | 171.71397    | 171.71397    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 86                      | 86.0349                                  | Not Achieved      | Vertical alignment | 70                                   |
| 5440         | 5524            | 168.95781 | 171.93936    | 171.93936    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 84                      | 84.09547                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5450         | 5534            | 169.57409 | 172.16313    | 172.16313    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 84                      | 84.11666                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5460         | 5544            | 170.18853 | 172.25637    | 172.25637    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 84                      | 84.10109                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5470         | 5550            | 170.77682 | 172.2658     | 172.2658     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 80                      | 80.03151                                 | Not Achieved      | Vertical alignment | 60                                   |
| 5480         | 5558            | 171.32337 | 172.27374    | 172.27374    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 78                      | 77.96602                                 | Not Achieved      | Vertical alignment | 60                                   |
| 5490         | 5592            | 171.76488 | 172.28528    | 172.28528    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 101.99989               | 101.81219                                | Not Achieved      | Vertical alignment | 60                                   |
| 5500         | 5626            | 172.20305 | 171.93599    | 171.93599    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 126                     | 125.74112                                | Not Achieved      | Vertical alignment | 90                                   |
| 5510         | 5673            | 172.46832 | 171.99722    | 171.99722    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.72167                                | Achieved          |                    | 100                                  |
| 5520         | 5685            | 172.74477 | 171.57072    | 171.57072    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.74809                                | Achieved          |                    | 100                                  |
| 5530         | 5695            | 172.98035 | 171.57903    | 171.57903    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.73026                                | Achieved          |                    | 100                                  |
| 5540         | 5705            | 173.14098 | 171.60993    | 171.60993    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.83452                                | Achieved          |                    | 100                                  |
| 5550         | 5715            | 173.1658  | 171.68673    | 171.68673    | 100          | 0.00%               | 0.00          |                         |                         |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zacc RT (ft/m/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|--------------------|---|
| 9990         | 6155            | 174.10156 | 174.28251    | 174.28251    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.92242                                | Achieved          |                    | 100                                     |
| 6000         | 6165            | 174.10422 | 174.31298    | 174.31298    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.38706                                | Achieved          |                    | 100                                     |
| 6020         | 6175            | 174.04873 | 174.28182    | 174.28182    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.72915                                | Achieved          |                    | 100                                     |
| 6020         | 6185            | 173.97289 | 174.24271    | 174.24271    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.11349                                | Achieved          |                    | 100                                     |
| 6030         | 6195            | 173.92721 | 174.18782    | 174.18782    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.57061                                | Achieved          |                    | 100                                     |
| 6040         | 6205            | 173.86893 | 174.19964    | 174.19964    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.11488                                | Achieved          |                    | 100                                     |
| 6050         | 6215            | 173.85003 | 174.23359    | 174.23359    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 160.79938                                | Achieved          |                    | 100                                     |
| 6060         | 6225            | 173.86013 | 174.31039    | 174.31039    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 160.5187                                 | Achieved          |                    | 100                                     |
| 6070         | 6235            | 173.98747 | 174.41846    | 174.41846    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 160.40782                                | Achieved          |                    | 100                                     |
| 6080         | 6245            | 174.04843 | 174.63521    | 174.63521    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 160.43971                                | Achieved          |                    | 100                                     |
| 6090         | 6255            | 174.13198 | 174.89       | 174.89       | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 160.54892                                | Achieved          |                    | 100                                     |
| 6100         | 6265            | 174.21405 | 175.09528    | 175.09528    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 160.73934                                | Achieved          |                    | 100                                     |
| 6110         | 6275            | 174.24653 | 175.28549    | 175.28549    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.0226                                 | Achieved          |                    | 100                                     |
| 6120         | 6285            | 174.314   | 175.39163    | 175.39163    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.35233                                | Achieved          |                    | 100                                     |
| 6130         | 6295            | 174.35772 | 175.49169    | 175.49169    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.6345                                 | Achieved          |                    | 100                                     |
| 6140         | 6305            | 174.37452 | 175.60351    | 175.60351    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.91533                                | Achieved          |                    | 100                                     |
| 6150         | 6315            | 173.13927 | 175.63786    | 175.63786    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.1983                                 | Achieved          |                    | 100                                     |
| 6160         | 6325            | 173.20932 | 175.56261    | 175.56261    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.44301                                | Achieved          |                    | 100                                     |
| 6170         | 6335            | 173.20073 | 175.48829    | 175.48829    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.63499                                | Achieved          |                    | 100                                     |
| 6180         | 6345            | 173.15672 | 175.35972    | 175.35972    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.74134                                | Achieved          |                    | 100                                     |
| 6190         | 6355            | 173.11189 | 175.2129     | 175.2129     | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.83418                                | Achieved          |                    | 100                                     |
| 6200         | 6365            | 173.09318 | 175.20732    | 175.20732    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 136                     | 154.1026                                 | Released          | Vertical alignment | 100                                     |
| 6210         | 6372            | 173.11244 | 175.26592    | 175.26592    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 142                     | 140.38993                                | Released          | Vertical alignment | 90                                      |
| 6220         | 6388            | 173.16670 | 175.43731    | 175.43731    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 118                     | 116.73541                                | Not Achieved      | Vertical alignment | 80                                      |
| 6230         | 6340            | 173.25226 | 175.41634    | 175.41634    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 110                     | 108.92713                                | Not Achieved      | Vertical alignment | 80                                      |
| 6240         | 6342            | 173.41666 | 175.39373    | 175.39373    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 102                     | 101.12473                                | Not Achieved      | Vertical alignment | 80                                      |
| 6250         | 6332            | 173.63863 | 175.26592    | 175.26592    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 102                     | 101.32457                                | Not Achieved      | Vertical alignment | 80                                      |
| 6260         | 6372            | 173.98683 | 174.9462     | 174.9462     | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 112                     | 111.5061                                 | Not Achieved      | Vertical alignment | 80                                      |
| 6270         | 6435            | 176.1099  | 174.0161     | 174.0161     | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.32962                                | Achieved          |                    | 100                                     |
| 6280         | 6445            | 176.20225 | 173.92147    | 173.92147    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.63101                                | Achieved          |                    | 100                                     |
| 6290         | 6435            | 176.34746 | 173.87163    | 173.87163    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.68742                                | Achieved          |                    | 100                                     |
| 6300         | 6465            | 176.45133 | 173.89596    | 173.89596    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.70054                                | Achieved          |                    | 100                                     |
| 6310         | 6475            | 176.53943 | 173.8707     | 173.8707     | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.66228                                | Achieved          |                    | 100                                     |
| 6320         | 6485            | 176.51223 | 173.88923    | 173.88923    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.61867                                | Achieved          |                    | 100                                     |
| 6330         | 6495            | 176.41694 | 173.92839    | 173.92839    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.57493                                | Achieved          |                    | 100                                     |
| 6340         | 6505            | 176.31634 | 173.99294    | 173.99294    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.52782                                | Achieved          |                    | 100                                     |
| 6350         | 6515            | 176.19579 | 174.03704    | 174.03704    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.44701                                | Achieved          |                    | 100                                     |
| 6360         | 6525            | 176.08367 | 174.08294    | 174.08294    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.34964                                | Achieved          |                    | 100                                     |
| 6370         | 6535            | 173.87834 | 174.14266    | 174.14266    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.23955                                | Achieved          |                    | 100                                     |
| 6380         | 6545            | 173.71191 | 174.19071    | 174.19071    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.10997                                | Achieved          |                    | 100                                     |
| 6390         | 6555            | 173.53423 | 174.19213    | 174.19213    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.96502                                | Achieved          |                    | 100                                     |
| 6400         | 6565            | 173.3857  | 174.16138    | 174.16138    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.82297                                | Achieved          |                    | 100                                     |
| 6410         | 6575            | 173.2573  | 174.13327    | 174.13327    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.71297                                | Achieved          |                    | 100                                     |
| 6420         | 6585            | 173.11752 | 174.09819    | 174.09819    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.63783                                | Achieved          |                    | 100                                     |
| 6430         | 6595            | 174.97672 | 174.06061    | 174.06061    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.59013                                | Achieved          |                    | 100                                     |
| 6440         | 6605            | 174.85188 | 174.01912    | 174.01912    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.5724                                 | Achieved          |                    | 100                                     |
| 6450         | 6615            | 174.79314 | 174.01346    | 174.01346    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.51033                                | Achieved          |                    | 100                                     |
| 6460         | 6625            | 174.72883 | 173.98333    | 173.98333    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.69886                                | Achieved          |                    | 100                                     |
| 6470         | 6635            | 174.68862 | 173.94331    | 173.94331    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.74434                                | Achieved          |                    | 100                                     |
| 6480         | 6645            | 174.77601 | 173.92021    | 173.92021    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.84613                                | Achieved          |                    | 100                                     |
| 6490         | 6655            | 174.803   | 173.89903    | 173.89903    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.96422                                | Achieved          |                    | 100                                     |
| 6500         | 6665            | 174.86058 | 173.88634    | 173.88634    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.09836                                | Achieved          |                    | 100                                     |
| 6510         | 6675            | 174.9136  | 173.87362    | 173.87362    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.25746                                | Achieved          |                    | 100                                     |
| 6520         | 6685            | 174.95993 | 173.86175    | 173.86175    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.40693                                | Achieved          |                    | 100                                     |
| 6530         | 6695            | 173.01337 | 173.78847    | 173.78847    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.53376                                | Achieved          |                    | 100                                     |
| 6540         | 6705            | 173.054   | 173.74816    | 173.74816    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.6389                                 | Achieved          |                    | 100                                     |
| 6550         | 6715            | 173.04407 | 173.70853    | 173.70853    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.71963                                | Achieved          |                    | 100                                     |
| 6560         | 6725            | 173.06077 | 173.69617    | 173.69617    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.7767                                 | Achieved          |                    | 100                                     |
| 6570         | 6735            | 173.04996 | 173.70296    | 173.70296    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.81004                                | Achieved          |                    | 100                                     |
| 6580         | 6745            | 173.01645 | 173.72362    | 173.72362    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.80956                                | Achieved          |                    | 100                                     |
| 6590         | 6755            | 174.97342 | 173.73958    | 173.73958    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.80842                                | Achieved          |                    | 100                                     |
| 6600         | 6765            | 174.94589 | 173.74972    | 173.74972    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.80598                                | Achieved          |                    | 100                                     |
| 6610         | 6775            | 174.91241 | 173.75117    | 173.75117    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.78714                                | Achieved          |                    | 100                                     |
| 6620         | 6785            | 174.88843 | 173.76822    | 173.76822    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.78034                                | Achieved          |                    | 100                                     |
| 6630         | 6795            | 174.87431 | 173.77113    | 173.77113    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.77878                                | Achieved          |                    | 100                                     |
| 6640         | 6805            | 174.83176 | 173.74638    | 173.74638    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.78482                                | Achieved          |                    | 100                                     |
| 6650         | 6815            | 174.8046  | 173.71666    | 173.71666    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.79979                                | Achieved          |                    | 100                                     |
| 6660         | 6825            | 174.79283 | 173.71993    | 173.71993    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.81623                                | Achieved          |                    | 100                                     |
| 6670         | 6835            | 174.77865 | 173.76244    | 173.76244    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.83366                                | Achieved          |                    | 100                                     |
| 6680         | 6845            | 174.75956 | 173.80031    | 173.80031    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.85136                                | Achieved          |                    | 100                                     |
| 6690         | 6855            | 174.71563 | 173.83872    | 173.83872    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.86932                                | Achieved          |                    | 100                                     |
| 6700         | 6865            | 174.67603 | 173.81683    | 173.81683    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.8872                                 | Achieved          |                    | 100                                     |
| 6710         | 6875            | 174.62152 | 173.83175    | 173.83175    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9043                                 | Achieved          |                    | 100                                     |
| 6720         | 6885            | 174.59932 | 173.85959    | 173.85959    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.92353                                | Achieved          |                    | 100                                     |
| 6730         | 6895            | 174.59351 | 173.87213    | 173.87213    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.94096                                | Achieved          |                    | 100                                     |
| 6740         | 6905            | 174.6163  | 173.89973    | 173.89973    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.95579                                | Achieved          |                    | 100                                     |
| 6750         | 6915            | 174.63092 | 173.89177    | 173.89177    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.96909                                | Achieved          |                    | 100                                     |
| 6760         | 6925            | 174.65209 | 173.87993    | 173.87993    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98206                                | Achieved          |                    | 100                                     |
| 6770         | 6935            | 174.63094 | 173.85572    | 173.85572    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99427                                | Achieved          |                    | 100                                     |
| 6780         | 6945            | 174.62224 | 173.83399    | 173.83399    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9931                                 | Achieved          |                    | 100                                     |
| 6790         | 6955            | 174.67981 | 173.79481    | 173.79481    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99147                                | Achieved          |                    | 100                                     |
| 6800         | 6965            | 174.67772 | 173.71833    | 173.71833    | 300          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99137                                | Achieved          |                    | 100                                     |
| 6810         | 6975            | 174.63313 | 173.64158    | 173.64158    | 300          | 0                   |               |                         |                         |                         |  |                   |                    |   |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zacc RT (m/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 7250         | 7415            | 170.4033  | 164.77333    | 164.77333    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00234                                | Achieved          |                    | 100                                  |
| 7260         | 7425            | 170.20186 | 164.47893    | 164.47893    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00247                                | Achieved          |                    | 100                                  |
| 7270         | 7435            | 169.96111 | 164.19069    | 164.19069    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00241                                | Achieved          |                    | 100                                  |
| 7280         | 7445            | 169.68487 | 163.90343    | 163.90343    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00266                                | Achieved          |                    | 100                                  |
| 7290         | 7455            | 169.40465 | 163.62785    | 163.62785    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00299                                | Achieved          |                    | 100                                  |
| 7300         | 7465            | 169.07977 | 163.36419    | 163.36419    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00713                                | Achieved          |                    | 100                                  |
| 7310         | 7475            | 168.72119 | 163.14653    | 163.14653    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00834                                | Achieved          |                    | 100                                  |
| 7320         | 7485            | 168.37653 | 162.96542    | 162.96542    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00992                                | Achieved          |                    | 100                                  |
| 7330         | 7495            | 168.04653 | 162.82893    | 162.82893    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01128                                | Achieved          |                    | 100                                  |
| 7340         | 7505            | 167.73309 | 162.69163    | 162.69163    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01262                                | Achieved          |                    | 100                                  |
| 7350         | 7515            | 167.43697 | 162.55225    | 162.55225    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01308                                | Achieved          |                    | 100                                  |
| 7360         | 7525            | 167.16921 | 162.41394    | 162.41394    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01467                                | Achieved          |                    | 100                                  |
| 7370         | 7535            | 166.91307 | 162.29621    | 162.29621    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01618                                | Achieved          |                    | 100                                  |
| 7380         | 7545            | 166.64889 | 162.20299    | 162.20299    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01823                                | Achieved          |                    | 100                                  |
| 7390         | 7555            | 166.39502 | 162.19222    | 162.19222    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01886                                | Achieved          |                    | 100                                  |
| 7400         | 7565            | 166.11666 | 162.13258    | 162.13258    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01236                                | Achieved          |                    | 100                                  |
| 7410         | 7575            | 165.8231  | 162.09127    | 162.09127    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00704                                | Achieved          |                    | 100                                  |
| 7420         | 7585            | 165.52503 | 162.08796    | 162.08796    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00742                                | Achieved          |                    | 100                                  |
| 7430         | 7595            | 165.23565 | 162.1353     | 162.1353     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00746                                | Achieved          |                    | 100                                  |
| 7440         | 7605            | 164.94779 | 162.16612    | 162.16612    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00852                                | Achieved          |                    | 100                                  |
| 7450         | 7615            | 164.65838 | 162.23244    | 162.23244    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01007                                | Achieved          |                    | 100                                  |
| 7460         | 7625            | 164.36973 | 162.26247    | 162.26247    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01118                                | Achieved          |                    | 100                                  |
| 7470         | 7635            | 164.1461  | 162.32053    | 162.32053    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00988                                | Achieved          |                    | 100                                  |
| 7480         | 7645            | 163.95415 | 162.32887    | 162.32887    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00884                                | Achieved          |                    | 100                                  |
| 7490         | 7655            | 163.79267 | 162.29227    | 162.29227    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00692                                | Achieved          |                    | 100                                  |
| 7500         | 7665            | 163.66307 | 162.22666    | 162.22666    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00542                                | Achieved          |                    | 100                                  |
| 7510         | 7675            | 163.51815 | 162.19819    | 162.19819    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00404                                | Achieved          |                    | 100                                  |
| 7520         | 7685            | 163.37802 | 162.1232     | 162.1232     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00403                                | Achieved          |                    | 100                                  |
| 7530         | 7695            | 163.27449 | 162.14025    | 162.14025    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00686                                | Achieved          |                    | 100                                  |
| 7540         | 7705            | 163.20173 | 162.21707    | 162.21707    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00979                                | Achieved          |                    | 100                                  |
| 7550         | 7715            | 163.13326 | 162.35129    | 162.35129    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01221                                | Achieved          |                    | 100                                  |
| 7560         | 7725            | 163.06097 | 162.57571    | 162.57571    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01207                                | Achieved          |                    | 100                                  |
| 7570         | 7735            | 163.01039 | 162.87078    | 162.87078    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01197                                | Achieved          |                    | 100                                  |
| 7580         | 7745            | 162.96888 | 163.17164    | 163.17164    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01192                                | Achieved          |                    | 100                                  |
| 7590         | 7755            | 163.00683 | 163.44236    | 163.44236    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01119                                | Achieved          |                    | 100                                  |
| 7600         | 7765            | 163.05491 | 163.69807    | 163.69807    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01168                                | Achieved          |                    | 100                                  |
| 7610         | 7775            | 163.08257 | 163.76923    | 163.76923    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01022                                | Achieved          |                    | 100                                  |
| 7620         | 7785            | 163.12861 | 163.80189    | 163.80189    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00878                                | Achieved          |                    | 100                                  |
| 7630         | 7795            | 163.19763 | 163.80586    | 163.80586    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00785                                | Achieved          |                    | 100                                  |
| 7640         | 7805            | 163.23196 | 163.78472    | 163.78472    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00789                                | Achieved          |                    | 100                                  |
| 7650         | 7815            | 163.21453 | 163.79295    | 163.79295    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00794                                | Achieved          |                    | 100                                  |
| 7660         | 7824            | 163.16502 | 163.74815    | 163.74815    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 164                     | 164.00801                                | Released          |                    | 100                                  |
| 7670         | 7834            | 163.08939 | 163.73564    | 163.73564    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 144                     | 144.00811                                | Released          |                    | 100                                  |
| 7680         | 7808            | 163.03057 | 163.77376    | 163.77376    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 128                     | 128.00822                                | Not Achieved      |                    | 90                                   |
| 7690         | 7806            | 163.02542 | 163.79079    | 163.79079    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 116                     | 116.00699                                | Not Achieved      |                    | 80                                   |
| 7700         | 7805            | 163.01242 | 163.78079    | 163.78079    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 106                     | 106.00403                                | Not Achieved      |                    | 80                                   |
| 7710         | 7808            | 163.12767 | 163.77376    | 163.77376    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 98                      | 98.00106                                 | Not Achieved      |                    | 70                                   |
| 7720         | 7818            | 163.33203 | 163.74699    | 163.74699    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 98                      | 98                                       | Not Achieved      |                    | 70                                   |
| 7730         | 7895            | 163.61859 | 163.22155    | 163.22155    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00281                                | Achieved          |                    | 100                                  |
| 7740         | 7905            | 163.52419 | 163.70817    | 163.70817    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00281                                | Achieved          |                    | 100                                  |
| 7750         | 7915            | 164.21249 | 166.27437    | 166.27437    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99993                                | Achieved          |                    | 100                                  |
| 7760         | 7925            | 164.46383 | 166.89048    | 166.89048    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99694                                | Achieved          |                    | 100                                  |
| 7770         | 7935            | 164.62723 | 167.53083    | 167.53083    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99387                                | Achieved          |                    | 100                                  |
| 7780         | 7945            | 164.68958 | 168.21429    | 168.21429    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99263                                | Achieved          |                    | 100                                  |
| 7790         | 7955            | 164.70854 | 168.96407    | 168.96407    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99231                                | Achieved          |                    | 100                                  |
| 7800         | 7965            | 164.70061 | 169.78002    | 169.78002    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99241                                | Achieved          |                    | 100                                  |
| 7810         | 7975            | 164.66673 | 170.55553    | 170.55553    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99232                                | Achieved          |                    | 100                                  |
| 7820         | 7985            | 164.64328 | 171.43999    | 171.43999    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99223                                | Achieved          |                    | 100                                  |
| 7830         | 7995            | 164.66442 | 172.29218    | 172.29218    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99203                                | Achieved          |                    | 100                                  |
| 7840         | 8005            | 164.71841 | 172.98837    | 172.98837    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99124                                | Achieved          |                    | 100                                  |
| 7850         | 8015            | 164.81347 | 173.56589    | 173.56589    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99048                                | Achieved          |                    | 100                                  |
| 7860         | 8024            | 164.84949 | 173.98117    | 173.98117    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98973                                | Achieved          |                    | 100                                  |
| 7870         | 8024            | 165.18009 | 174.01362    | 174.01362    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 136                     | 136.98938                                | Released          | Vertical alignment | 100                                  |
| 7880         | 8024            | 165.9032  | 173.94331    | 173.94331    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 144                     | 143.98945                                | Released          | Vertical alignment | 100                                  |
| 7890         | 8024            | 165.89567 | 173.94231    | 173.94231    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 134                     | 133.9896                                 | Not Achieved      | Vertical alignment | 90                                   |
| 7900         | 8022            | 166.33754 | 173.8646     | 173.8646     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 122                     | 121.98974                                | Not Achieved      | Vertical alignment | 90                                   |
| 7910         | 8022            | 166.88034 | 173.8646     | 173.8646     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 112                     | 111.99123                                | Not Achieved      | Vertical alignment | 80                                   |
| 7920         | 8022            | 167.4711  | 173.8646     | 173.8646     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 102                     | 101.99434                                | Not Achieved      | Vertical alignment | 80                                   |
| 7930         | 8022            | 168.09709 | 173.8646     | 173.8646     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 92                      | 91.99738                                 | Not Achieved      | Vertical alignment | 80                                   |
| 7940         | 8022            | 168.76831 | 173.8646     | 173.8646     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 82                      | 82                                       | Not Achieved      | Vertical alignment | 70                                   |
| 7950         | 8025            | 169.49231 | 173.94231    | 173.94231    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 74                      | 74                                       | Not Achieved      | Vertical alignment | 80                                   |
| 7960         | 8026            | 170.28811 | 174.01362    | 174.01362    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 66                      | 66                                       | Not Achieved      | Vertical alignment | 80                                   |
| 7970         | 8030            | 171.05386 | 174.15217    | 174.15217    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 60                      | 60                                       | Not Achieved      | Vertical alignment | 80                                   |
| 7980         | 8040            | 171.50403 | 174.43218    | 174.43218    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 60                      | 60                                       | Not Achieved      | Vertical alignment | 80                                   |
| 7990         | 8050            | 172.76913 | 174.56819    | 174.56819    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 60                      | 60                                       | Not Achieved      | Vertical alignment | 80                                   |
| 8000         | 8062            | 173.56248 | 174.62182    | 174.62182    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 62                      | 62                                       | Not Achieved      | Vertical alignment | 80                                   |
| 8010         | 8108            | 174.18664 | 174.6388     | 174.6388     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 98                      | 97.99192                                 | Not Achieved      | Vertical alignment | 70                                   |
| 8020         | 8185            | 174.68703 | 174.29488    | 174.29488    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99357                                | Achieved          |                    | 100                                  |
| 8030         | 8195            | 175.02217 | 174.29518    | 174.29518    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9916                                 | Achieved          |                    | 100                                  |
| 8040         | 8205            | 175.32118 | 174.23143    | 174.23143    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98889                                | Achieved          |                    | 100                                  |
| 8050         | 8215            | 175.46819 | 174.19483    | 174.19483    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98871                                | Achieved          |                    | 100                                  |
| 8060         | 8225            | 175.51748 | 174.16166    | 174.16166    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98877                                | Achieved          |                    | 100                                  |
| 8070         | 8235            | 175.53279 | 174.09649    | 174.09649    | 100          | 0.00%               | 0.00%         | 163                     | 141                     |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zacc RT (m/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 8510         | 8675            | 168.26542 | 166.52649    | 166.52649    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00493                                | Achieved          |                    | 100                                  |
| 8520         | 8685            | 167.91819 | 167.0215     | 167.0215     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00667                                | Achieved          |                    | 100                                  |
| 8530         | 8695            | 167.62396 | 167.91178    | 167.91178    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00857                                | Achieved          |                    | 100                                  |
| 8540         | 8705            | 167.40905 | 167.91909    | 167.91909    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00847                                | Achieved          |                    | 100                                  |
| 8550         | 8715            | 167.14966 | 168.13341    | 168.13341    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00468                                | Achieved          |                    | 100                                  |
| 8560         | 8725            | 166.93822 | 168.59594    | 168.59594    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99934                                | Achieved          |                    | 100                                  |
| 8570         | 8735            | 166.79133 | 168.78922    | 168.78922    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99404                                | Achieved          |                    | 100                                  |
| 8580         | 8745            | 166.60404 | 168.83653    | 168.83653    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98862                                | Achieved          |                    | 100                                  |
| 8590         | 8750            | 166.43464 | 168.82148    | 168.82148    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 160                     | 159.98382                                | Released          | Vertical alignment | 100                                  |
| 8600         | 8748            | 166.30709 | 168.82819    | 168.82819    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 148                     | 147.9881                                 | Released          | Vertical alignment | 100                                  |
| 8610         | 8746            | 166.18021 | 168.83376    | 168.83376    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 136                     | 135.99012                                | Not Achieved      | Vertical alignment | 90                                   |
| 8620         | 8744            | 166.17409 | 168.83921    | 168.83921    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 134                     | 123.99134                                | Not Achieved      | Vertical alignment | 90                                   |
| 8630         | 8742            | 166.16776 | 168.8398     | 168.8398     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 114                     | 113.99128                                | Not Achieved      | Vertical alignment | 80                                   |
| 8640         | 8742            | 166.16776 | 168.8398     | 168.8398     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 102                     | 101.9924                                 | Not Achieved      | Vertical alignment | 80                                   |
| 8650         | 8742            | 166.16776 | 168.8398     | 168.8398     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 92                      | 91.99243                                 | Not Achieved      | Vertical alignment | 70                                   |
| 8660         | 8742            | 166.16776 | 168.8398     | 168.8398     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 82                      | 81.99248                                 | Not Achieved      | Vertical alignment | 70                                   |
| 8670         | 8744            | 167.19236 | 168.83921    | 168.83921    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 74                      | 73.98812                                 | Not Achieved      | Vertical alignment | 60                                   |
| 8680         | 8748            | 167.66748 | 168.82819    | 168.82819    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 68                      | 67.98027                                 | Not Achieved      | Vertical alignment | 60                                   |
| 8690         | 8734            | 168.17717 | 168.7985     | 168.7985     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 64                      | 63.97692                                 | Not Achieved      | Vertical alignment | 60                                   |
| 8700         | 8766            | 168.63697 | 168.64388    | 168.64388    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 66                      | 65.97014                                 | Not Achieved      | Vertical alignment | 60                                   |
| 8710         | 8788            | 169.09147 | 168.3203     | 168.3203     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 74                      | 73.96669                                 | Not Achieved      | Vertical alignment | 60                                   |
| 8720         | 8883            | 169.36397 | 168.13728    | 168.13728    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99141                                | Achieved          |                    | 100                                  |
| 8730         | 8893            | 169.61421 | 168.42393    | 168.42393    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99882                                | Achieved          |                    | 100                                  |
| 8740         | 8903            | 169.74033 | 168.82633    | 168.82633    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00204                                | Achieved          |                    | 100                                  |
| 8750         | 8913            | 169.72148 | 169.23278    | 169.23278    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00719                                | Achieved          |                    | 100                                  |
| 8760         | 8923            | 169.64617 | 169.71518    | 169.71518    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.01241                                | Achieved          |                    | 100                                  |
| 8770         | 8933            | 169.46764 | 170.16134    | 170.16134    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.01789                                | Achieved          |                    | 100                                  |
| 8780         | 8943            | 169.29219 | 170.61361    | 170.61361    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.02122                                | Achieved          |                    | 100                                  |
| 8790         | 8953            | 169.11428 | 171.02594    | 171.02594    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.01683                                | Achieved          |                    | 100                                  |
| 8800         | 8963            | 168.97633 | 171.47785    | 171.47785    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.01218                                | Achieved          |                    | 100                                  |
| 8810         | 8973            | 168.87009 | 171.89746    | 171.89746    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00804                                | Achieved          |                    | 100                                  |
| 8820         | 8983            | 168.47962 | 172.38883    | 172.38883    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00444                                | Achieved          |                    | 100                                  |
| 8830         | 8993            | 168.34123 | 172.89126    | 172.89126    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00007                                | Achieved          |                    | 100                                  |
| 8840         | 9003            | 168.29424 | 173.36927    | 173.36927    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99594                                | Achieved          |                    | 100                                  |
| 8850         | 9013            | 168.34134 | 173.79034    | 173.79034    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99621                                | Achieved          |                    | 100                                  |
| 8860         | 9023            | 168.46777 | 174.23065    | 174.23065    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99619                                | Achieved          |                    | 100                                  |
| 8870         | 9033            | 168.56136 | 174.57362    | 174.57362    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99618                                | Achieved          |                    | 100                                  |
| 8880         | 9043            | 168.64304 | 174.82782    | 174.82782    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99617                                | Achieved          |                    | 100                                  |
| 8890         | 9048            | 169.16893 | 174.88173    | 174.88173    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 158                     | 137.99618                                | Released          | Vertical alignment | 100                                  |
| 8900         | 9048            | 169.3111  | 174.88173    | 174.88173    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 148                     | 147.99618                                | Released          | Vertical alignment | 100                                  |
| 8910         | 9048            | 169.93761 | 174.88173    | 174.88173    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 138                     | 137.99619                                | Not Achieved      | Vertical alignment | 90                                   |
| 8920         | 9050            | 170.37944 | 174.91742    | 174.91742    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 130                     | 129.9962                                 | Not Achieved      | Vertical alignment | 90                                   |
| 8930         | 9050            | 170.83779 | 174.91742    | 174.91742    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 120                     | 119.99621                                | Not Achieved      | Vertical alignment | 90                                   |
| 8940         | 9052            | 171.28957 | 174.94824    | 174.94824    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 112                     | 111.99622                                | Not Achieved      | Vertical alignment | 80                                   |
| 8950         | 9054            | 171.73963 | 174.97828    | 174.97828    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 104                     | 103.99623                                | Not Achieved      | Vertical alignment | 80                                   |
| 8960         | 9056            | 172.18969 | 175.00845    | 175.00845    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 96                      | 95.99625                                 | Not Achieved      | Vertical alignment | 70                                   |
| 8970         | 9058            | 172.5631  | 175.02209    | 175.02209    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 88                      | 87.99627                                 | Not Achieved      | Vertical alignment | 70                                   |
| 8980         | 9060            | 173.04048 | 175.04062    | 175.04062    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 80                      | 79.99914                                 | Not Achieved      | Vertical alignment | 60                                   |
| 8990         | 9066            | 173.53403 | 175.06237    | 175.06237    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 76                      | 76                                       | Not Achieved      | Vertical alignment | 60                                   |
| 9000         | 9076            | 174.03403 | 175.08702    | 175.08702    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 76                      | 76                                       | Not Achieved      | Vertical alignment | 60                                   |
| 9010         | 9090            | 174.46639 | 175.07473    | 175.07473    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 80                      | 80                                       | Not Achieved      | Vertical alignment | 60                                   |
| 9020         | 9185            | 174.91705 | 175.0893     | 175.0893     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.0004                                 | Achieved          |                    | 100                                  |
| 9030         | 9195            | 175.33355 | 175.07944    | 175.07944    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00036                                | Achieved          |                    | 100                                  |
| 9040         | 9205            | 175.6441  | 175.07061    | 175.07061    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00036                                | Achieved          |                    | 100                                  |
| 9050         | 9215            | 175.91742 | 175.03146    | 175.03146    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00036                                | Achieved          |                    | 100                                  |
| 9060         | 9225            | 175.54062 | 174.99642    | 174.99642    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00036                                | Achieved          |                    | 100                                  |
| 9070         | 9235            | 175.9774  | 174.95804    | 174.95804    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00036                                | Achieved          |                    | 100                                  |
| 9080         | 9245            | 175.58982 | 174.8976     | 174.8976     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00036                                | Achieved          |                    | 100                                  |
| 9090         | 9255            | 175.97473 | 174.69187    | 174.69187    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00037                                | Achieved          |                    | 100                                  |
| 9100         | 9258            | 175.52338 | 174.61184    | 174.61184    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 158                     | 158.00037                                | Released          | Vertical alignment | 100                                  |
| 9110         | 9258            | 175.90318 | 174.61184    | 174.61184    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 148                     | 148.00037                                | Released          | Vertical alignment | 100                                  |
| 9120         | 9260            | 175.54448 | 174.59537    | 174.59537    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 140                     | 139.9999                                 | Not Achieved      | Vertical alignment | 90                                   |
| 9130         | 9262            | 175.95766 | 174.52457    | 174.52457    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 130                     | 129.99823                                | Not Achieved      | Vertical alignment | 90                                   |
| 9140         | 9262            | 175.97122 | 174.49197    | 174.49197    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 122                     | 121.9978                                 | Not Achieved      | Vertical alignment | 90                                   |
| 9150         | 9262            | 175.56541 | 174.49197    | 174.49197    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 112                     | 111.99676                                | Not Achieved      | Vertical alignment | 80                                   |
| 9160         | 9264            | 175.98017 | 174.42743    | 174.42743    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 104                     | 103.99618                                | Not Achieved      | Vertical alignment | 80                                   |
| 9170         | 9266            | 176.00647 | 174.35693    | 174.35693    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 96                      | 95.99769                                 | Not Achieved      | Vertical alignment | 70                                   |
| 9180         | 9268            | 175.99675 | 174.28302    | 174.28302    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 88                      | 87.9992                                  | Not Achieved      | Vertical alignment | 70                                   |
| 9190         | 9274            | 175.98622 | 174.07685    | 174.07685    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 84                      | 84                                       | Not Achieved      | Vertical alignment | 70                                   |
| 9200         | 9284            | 175.96955 | 173.73772    | 173.73772    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 84                      | 84                                       | Not Achieved      | Vertical alignment | 70                                   |
| 9210         | 9294            | 175.95999 | 173.29505    | 173.29505    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 84                      | 84                                       | Not Achieved      | Vertical alignment | 70                                   |
| 9220         | 9303            | 175.91329 | 170.56142    | 170.56142    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9230         | 9335            | 175.87621 | 170.43896    | 170.43896    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9240         | 9403            | 175.83963 | 170.30498    | 170.30498    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9250         | 9413            | 175.71313 | 170.14768    | 170.14768    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9260         | 9423            | 175.43637 | 170.01269    | 170.01269    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9270         | 9433            | 175.11055 | 169.82913    | 169.82913    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9280         | 9443            | 174.75329 | 169.59592    | 169.59592    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99391                                | Achieved          |                    | 100                                  |
| 9290         | 9453            | 174.403   | 169.3133     | 169.3133     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99397                                | Achieved          |                    | 100                                  |
| 9300         | 9463            | 174.02956 | 169.0201     | 169.0201     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99287                                | Achieved          |                    | 100                                  |
| 9310         | 9470            | 173.60271 | 168.58272    | 168.58272    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 160                     | 159.99283                                | Released          | Vertical alignment | 100                                  |
| 9320         | 9468            | 173.20177 | 168.6666     | 168.6666     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 148                     | 147.99284                                | Released          | Vertical alignment | 100                                  |
| 9330         | 9468            | 172.81601 | 168.6666     | 16           |              |                     |               |                         |                         |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zacc RT (m/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 9770         | 9935            | 162.28142 | 160.99474    | 160.99474    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.06383                                | Achieved          |                    | 100                                  |
| 9780         | 9945            | 162.25557 | 160.98226    | 160.98226    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.07283                                | Achieved          |                    | 100                                  |
| 9790         | 9955            | 162.20422 | 160.94526    | 160.94526    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.08337                                | Achieved          |                    | 100                                  |
| 9800         | 9965            | 162.21542 | 160.91821    | 160.91821    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.07793                                | Achieved          |                    | 100                                  |
| 9810         | 9975            | 162.20986 | 160.92899    | 160.92899    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.06123                                | Achieved          |                    | 100                                  |
| 9820         | 9985            | 162.18314 | 160.96983    | 160.96983    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.03033                                | Achieved          |                    | 100                                  |
| 9840         | 10000           | 162.1113  | 161.04929    | 161.04929    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99733                                | Achieved          |                    | 100                                  |
| 9850         | 10013           | 162.08677 | 161.07708    | 161.07708    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99728                                | Achieved          |                    | 100                                  |
| 9860         | 10025           | 162.09635 | 161.13038    | 161.13038    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99726                                | Achieved          |                    | 100                                  |
| 9870         | 10035           | 162.02952 | 161.24192    | 161.24192    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99611                                | Achieved          |                    | 100                                  |
| 9880         | 10045           | 161.98278 | 161.38986    | 161.38986    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99962                                | Achieved          |                    | 100                                  |
| 9890         | 10055           | 161.95155 | 161.60677    | 161.60677    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.01499                                | Achieved          |                    | 100                                  |
| 9900         | 10065           | 161.99521 | 161.8444     | 161.8444     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.02032                                | Achieved          |                    | 100                                  |
| 9910         | 10075           | 161.96884 | 162.09769    | 162.09769    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.04546                                | Achieved          |                    | 100                                  |
| 9920         | 10085           | 161.94014 | 162.31162    | 162.31162    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.03967                                | Achieved          |                    | 100                                  |
| 9930         | 10095           | 161.90503 | 162.51566    | 162.51566    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.06009                                | Achieved          |                    | 100                                  |
| 9940         | 10105           | 161.89042 | 162.72836    | 162.72836    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.06743                                | Achieved          |                    | 100                                  |
| 9950         | 10115           | 161.86521 | 162.91767    | 162.91767    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.06736                                | Achieved          |                    | 100                                  |
| 9960         | 10125           | 161.8347  | 163.12888    | 163.12888    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.03638                                | Achieved          |                    | 100                                  |
| 9970         | 10135           | 161.86604 | 163.38873    | 163.38873    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.06092                                | Achieved          |                    | 100                                  |
| 9980         | 10145           | 161.84903 | 163.65078    | 163.65078    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.01396                                | Achieved          |                    | 100                                  |
| 9990         | 10155           | 161.90361 | 163.93286    | 163.93286    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98774                                | Achieved          |                    | 100                                  |
| 10010        | 10175           | 161.59646 | 164.62876    | 164.62876    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9701                                 | Achieved          |                    | 100                                  |
| 10020        | 10185           | 162.01213 | 165.01333    | 165.01333    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97867                                | Achieved          |                    | 100                                  |
| 10030        | 10195           | 162.08813 | 165.37691    | 165.37691    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99884                                | Achieved          |                    | 100                                  |
| 10040        | 10205           | 162.20862 | 165.71208    | 165.71208    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.01638                                | Achieved          |                    | 100                                  |
| 10050        | 10215           | 162.39331 | 166.19695    | 166.19695    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.01481                                | Achieved          |                    | 100                                  |
| 10060        | 10225           | 162.61926 | 166.69508    | 166.69508    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00493                                | Achieved          |                    | 100                                  |
| 10070        | 10235           | 162.87348 | 167.18961    | 167.18961    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98284                                | Achieved          |                    | 100                                  |
| 10080        | 10245           | 163.11171 | 167.72778    | 167.72778    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.94648                                | Achieved          |                    | 100                                  |
| 10090        | 10255           | 163.30169 | 168.35243    | 168.35243    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.89268                                | Achieved          |                    | 100                                  |
| 10100        | 10265           | 163.51947 | 168.99211    | 168.99211    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.82112                                | Achieved          |                    | 100                                  |
| 10110        | 10275           | 163.73001 | 169.43733    | 169.43733    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.73316                                | Achieved          |                    | 100                                  |
| 10120        | 10285           | 163.918   | 169.98079    | 169.98079    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.63203                                | Achieved          |                    | 100                                  |
| 10130        | 10295           | 164.14933 | 170.47666    | 170.47666    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.52487                                | Achieved          |                    | 100                                  |
| 10140        | 10305           | 164.42286 | 170.9003     | 170.9003     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.44251                                | Achieved          |                    | 100                                  |
| 10150        | 10315           | 164.69329 | 171.26408    | 171.26408    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.38789                                | Achieved          |                    | 100                                  |
| 10160        | 10325           | 165.01316 | 171.61179    | 171.61179    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.34072                                | Achieved          |                    | 100                                  |
| 10170        | 10335           | 165.32644 | 171.87994    | 171.87994    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.32147                                | Achieved          |                    | 100                                  |
| 10180        | 10338           | 165.72332 | 171.96274    | 171.96274    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 158                     | 137.3493                                 | Released          | Vertical alignment | 100                                  |
| 10190        | 10338           | 166.11477 | 171.96274    | 171.96274    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 148                     | 147.40143                                | Released          | Vertical alignment | 100                                  |
| 10200        | 10338           | 166.43577 | 171.96274    | 171.96274    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 138                     | 137.46118                                | Not Achieved      | Vertical alignment | 90                                   |
| 10210        | 10338           | 166.82646 | 171.96274    | 171.96274    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 128                     | 127.54618                                | Not Achieved      | Vertical alignment | 90                                   |
| 10220        | 10338           | 167.30239 | 171.96274    | 171.96274    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 118                     | 117.62179                                | Not Achieved      | Vertical alignment | 80                                   |
| 10230        | 10340           | 167.89206 | 172.01844    | 172.01844    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 110                     | 108.69323                                | Not Achieved      | Vertical alignment | 80                                   |
| 10240        | 10340           | 168.38236 | 172.01844    | 172.01844    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 110                     | 108.72004                                | Not Achieved      | Vertical alignment | 80                                   |
| 10250        | 10378           | 168.93834 | 173.11612    | 173.11612    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 128                     | 127.72388                                | Not Achieved      | Vertical alignment | 90                                   |
| 10260        | 10423           | 169.5385  | 174.3981     | 174.3981     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.7264                                 | Achieved          |                    | 100                                  |
| 10270        | 10433           | 170.07319 | 174.63577    | 174.63577    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.77321                                | Achieved          |                    | 100                                  |
| 10280        | 10443           | 170.63138 | 174.83241    | 174.83241    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.80877                                | Achieved          |                    | 100                                  |
| 10290        | 10453           | 171.13823 | 174.93351    | 174.93351    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.83662                                | Achieved          |                    | 100                                  |
| 10300        | 10464           | 171.69549 | 175.03475    | 175.03475    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 164                     | 163.85019                                | Released          | Vertical alignment | 100                                  |
| 10310        | 10464           | 171.96722 | 175.03475    | 175.03475    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 154                     | 133.8893                                 | Released          | Vertical alignment | 100                                  |
| 10320        | 10466           | 172.36044 | 175.03448    | 175.03448    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 144                     | 145.88276                                | Released          | Vertical alignment | 100                                  |
| 10330        | 10468           | 172.64318 | 175.03159    | 175.03159    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 138                     | 137.89778                                | Not Achieved      | Vertical alignment | 90                                   |
| 10340        | 10468           | 172.91844 | 175.03159    | 175.03159    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 128                     | 127.90998                                | Not Achieved      | Vertical alignment | 90                                   |
| 10350        | 10470           | 173.21182 | 175.02316    | 175.02316    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 120                     | 119.92073                                | Not Achieved      | Vertical alignment | 90                                   |
| 10360        | 10472           | 173.52373 | 174.99843    | 174.99843    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 112                     | 111.93056                                | Not Achieved      | Vertical alignment | 80                                   |
| 10370        | 10474           | 173.78936 | 174.97361    | 174.97361    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 104                     | 103.94017                                | Not Achieved      | Vertical alignment | 80                                   |
| 10380        | 10474           | 174.07215 | 174.97361    | 174.97361    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 94                      | 93.94483                                 | Not Achieved      | Vertical alignment | 70                                   |
| 10390        | 10476           | 174.33681 | 174.92899    | 174.92899    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 86                      | 85.94903                                 | Not Achieved      | Vertical alignment | 70                                   |
| 10400        | 10478           | 174.58396 | 174.89159    | 174.89159    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 78                      | 77.95252                                 | Not Achieved      | Vertical alignment | 80                                   |
| 10410        | 10480           | 174.82438 | 174.82189    | 174.82189    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 70                      | 69.92748                                 | Not Achieved      | Vertical alignment | 80                                   |
| 10420        | 10482           | 175.10546 | 174.72737    | 174.72737    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 62                      | 63.96374                                 | Not Achieved      | Vertical alignment | 80                                   |
| 10430        | 10488           | 175.42568 | 174.58243    | 174.58243    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 58                      | 57.9659                                  | Not Achieved      | Vertical alignment | 80                                   |
| 10440        | 10496           | 175.64666 | 174.24104    | 174.24104    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 56                      | 55.9721                                  | Not Achieved      | Vertical alignment | 80                                   |
| 10450        | 10506           | 175.80419 | 173.70886    | 173.70886    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 56                      | 55.98023                                 | Not Achieved      | Vertical alignment | 80                                   |
| 10460        | 10623           | 175.90432 | 173.48378    | 173.48378    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98994                                | Achieved          |                    | 100                                  |
| 10470        | 10635           | 175.93186 | 173.93186    | 173.93186    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99449                                | Achieved          |                    | 100                                  |
| 10480        | 10645           | 175.73189 | 174.4087     | 174.4087     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99927                                | Achieved          |                    | 100                                  |
| 10490        | 10655           | 175.60802 | 174.90269    | 174.90269    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99829                                | Achieved          |                    | 100                                  |
| 10500        | 10665           | 174.94223 | 175.39174    | 175.39174    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99633                                | Achieved          |                    | 100                                  |
| 10510        | 10675           | 174.42706 | 175.86878    | 175.86878    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99737                                | Achieved          |                    | 100                                  |
| 10520        | 10685           | 173.97614 | 176.28001    | 176.28001    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.03223                                | Achieved          |                    | 100                                  |
| 10530        | 10695           | 173.61464 | 176.73918    | 176.73918    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.07033                                | Achieved          |                    | 100                                  |
| 10540        | 10705           | 173.31187 | 177.09797    | 177.09797    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.09543                                | Achieved          |                    | 100                                  |
| 10550        | 10715           | 173.09045 | 177.33049    | 177.33049    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.10207                                | Achieved          |                    | 100                                  |
| 10560        | 10725           | 172.91428 | 177.52058    | 177.52058    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.07869                                | Achieved          |                    | 100                                  |
| 10570        | 10735           | 172.80338 | 177.68789    | 177.68789    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.02146                                | Achieved          |                    | 100                                  |
| 10580        | 10734           | 173.12225 | 177.67482    | 177.67482    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 134                     | 134.0312                                 | Released          | Vertical alignment | 100                                  |
| 10590        | 10732           | 173.32634 | 177.64427    | 177.64427    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 142                     | 142.04653                                | Released          | Vertical alignment | 100                                  |
| 10600        | 10728           | 173.50901 |              |              |              |                     |               |                         |                         |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction | SSD Speed Achieved EDD Zacc RT (m/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|-------------|--------------------------------------|
| 11050        | 11215           | 174.64188 | 168.54024    | 168.54024    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99233                                | Achieved          |             | 100                                  |
| 11060        | 11225           | 174.34151 | 168.31506    | 168.31506    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99242                                | Achieved          |             | 100                                  |
| 11070        | 11235           | 174.09713 | 168.12229    | 168.12229    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99251                                | Achieved          |             | 100                                  |
| 11080        | 11245           | 173.82347 | 167.91378    | 167.91378    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99260                                | Achieved          |             | 100                                  |
| 11090        | 11255           | 173.56267 | 167.72861    | 167.72861    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00240                                | Achieved          |             | 100                                  |
| 11100        | 11265           | 173.31993 | 167.55696    | 167.55696    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.03331                                | Achieved          |             | 100                                  |
| 11110        | 11275           | 173.08623 | 167.34227    | 167.34227    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.07852                                | Achieved          |             | 100                                  |
| 11120        | 11285           | 172.82588 | 167.06188    | 167.06188    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.12447                                | Achieved          |             | 100                                  |
| 11130        | 11295           | 172.54371 | 166.72803    | 166.72803    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.13021                                | Achieved          |             | 100                                  |
| 11140        | 11305           | 172.23029 | 166.35573    | 166.35573    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.06929                                | Achieved          |             | 100                                  |
| 11150        | 11315           | 171.98681 | 165.98459    | 165.98459    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99                                   | Achieved          |             | 100                                  |
| 11160        | 11325           | 170.99620 | 165.64748    | 165.64748    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.70931                                | Achieved          |             | 100                                  |
| 11170        | 11335           | 170.62777 | 165.30776    | 165.30776    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.40082                                | Achieved          |             | 100                                  |
| 11180        | 11345           | 170.37077 | 165.12191    | 165.12191    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.0712                                 | Achieved          |             | 100                                  |
| 11190        | 11355           | 170.08813 | 164.93373    | 164.93373    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.74909                                | Achieved          |             | 100                                  |
| 11200        | 11365           | 169.80022 | 164.80029    | 164.80029    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.47932                                | Achieved          |             | 100                                  |
| 11210        | 11375           | 169.59968 | 164.69964    | 164.69964    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.30037                                | Achieved          |             | 100                                  |
| 11220        | 11385           | 169.32108 | 164.63233    | 164.63233    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.22944                                | Achieved          |             | 100                                  |
| 11230        | 11395           | 169.11647 | 164.63953    | 164.63953    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.26674                                | Achieved          |             | 100                                  |
| 11240        | 11405           | 168.9295  | 164.62211    | 164.62211    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.41221                                | Achieved          |             | 100                                  |
| 11250        | 11415           | 168.76463 | 164.61721    | 164.61721    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.65511                                | Achieved          |             | 100                                  |
| 11260        | 11425           | 168.59384 | 164.66379    | 164.66379    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.99679                                | Achieved          |             | 100                                  |
| 11270        | 11435           | 168.36034 | 164.72006    | 164.72006    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.33001                                | Achieved          |             | 100                                  |
| 11280        | 11445           | 168.10756 | 164.79022    | 164.79022    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.66764                                | Achieved          |             | 100                                  |
| 11290        | 11455           | 167.80349 | 164.83639    | 164.83639    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.90108                                | Achieved          |             | 100                                  |
| 11300        | 11465           | 167.44202 | 164.89733    | 164.89733    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.04983                                | Achieved          |             | 100                                  |
| 11310        | 11475           | 167.0671  | 165.02528    | 165.02528    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.11983                                | Achieved          |             | 100                                  |
| 11320        | 11485           | 166.70716 | 165.19186    | 165.19186    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.12003                                | Achieved          |             | 100                                  |
| 11330        | 11495           | 166.39381 | 165.23273    | 165.23273    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.0909                                 | Achieved          |             | 100                                  |
| 11340        | 11505           | 166.1308  | 165.32967    | 165.32967    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.03488                                | Achieved          |             | 100                                  |
| 11350        | 11515           | 165.93131 | 165.47797    | 165.47797    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.03403                                | Achieved          |             | 100                                  |
| 11360        | 11525           | 165.76367 | 165.60579    | 165.60579    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00077                                | Achieved          |             | 100                                  |
| 11370        | 11535           | 165.64094 | 165.71917    | 165.71917    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00226                                | Achieved          |             | 100                                  |
| 11380        | 11545           | 165.56464 | 165.82488    | 165.82488    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00259                                | Achieved          |             | 100                                  |
| 11390        | 11555           | 165.54571 | 165.91203    | 165.91203    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00258                                | Achieved          |             | 100                                  |
| 11400        | 11565           | 165.53354 | 166.00784    | 166.00784    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00257                                | Achieved          |             | 100                                  |
| 11410        | 11575           | 165.51186 | 166.13463    | 166.13463    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00257                                | Achieved          |             | 100                                  |
| 11420        | 11585           | 165.50047 | 166.20002    | 166.20002    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00256                                | Achieved          |             | 100                                  |
| 11430        | 11595           | 165.49338 | 166.33938    | 166.33938    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00256                                | Achieved          |             | 100                                  |
| 11440        | 11605           | 165.62213 | 166.48044    | 166.48044    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00256                                | Achieved          |             | 100                                  |
| 11450        | 11615           | 165.71422 | 166.61643    | 166.61643    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00256                                | Achieved          |             | 100                                  |
| 11460        | 11625           | 165.79687 | 166.73127    | 166.73127    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00256                                | Achieved          |             | 100                                  |
| 11470        | 11635           | 165.89012 | 166.88406    | 166.88406    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00257                                | Achieved          |             | 100                                  |
| 11480        | 11645           | 166.00005 | 167.03007    | 167.03007    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00257                                | Achieved          |             | 100                                  |
| 11490        | 11655           | 166.10216 | 167.16699    | 167.16699    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00259                                | Achieved          |             | 100                                  |
| 11500        | 11665           | 166.20284 | 167.29427    | 167.29427    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00264                                | Achieved          |             | 100                                  |
| 11510        | 11675           | 166.31826 | 167.39432    | 167.39432    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                  |
| 11520        | 11685           | 166.44421 | 167.47439    | 167.47439    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                  |
| 11530        | 11695           | 166.56295 | 167.54457    | 167.54457    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11540        | 11705           | 166.67244 | 167.63168    | 167.63168    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11550        | 11715           | 166.76897 | 167.73018    | 167.73018    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11560        | 11725           | 166.87804 | 167.82442    | 167.82442    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11570        | 11735           | 166.98848 | 167.91936    | 167.91936    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11580        | 11745           | 167.09812 | 168.00529    | 168.00529    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11590        | 11755           | 167.20046 | 168.08782    | 168.08782    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11600        | 11765           | 167.31688 | 168.10023    | 168.10023    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11610        | 11775           | 167.44308 | 168.12683    | 168.12683    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11620        | 11785           | 167.58638 | 168.16723    | 168.16723    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11630        | 11795           | 167.71598 | 168.22443    | 168.22443    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11640        | 11805           | 167.8569  | 168.28156    | 168.28156    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11650        | 11815           | 168.00205 | 168.34054    | 168.34054    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11660        | 11825           | 168.13382 | 168.40952    | 168.40952    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11670        | 11835           | 168.20926 | 168.47321    | 168.47321    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99982                                | Achieved          |             | 100                                  |
| 11680        | 11845           | 168.31768 | 168.53437    | 168.53437    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99716                                | Achieved          |             | 100                                  |
| 11690        | 11855           | 168.40689 | 168.59266    | 168.59266    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99731                                | Achieved          |             | 100                                  |
| 11700        | 11865           | 168.48422 | 168.64782    | 168.64782    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99732                                | Achieved          |             | 100                                  |
| 11710        | 11875           | 168.58173 | 168.68386    | 168.68386    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99731                                | Achieved          |             | 100                                  |
| 11720        | 11885           | 168.67886 | 168.67867    | 168.67867    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99731                                | Achieved          |             | 100                                  |
| 11730        | 11895           | 168.77044 | 168.64325    | 168.64325    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99731                                | Achieved          |             | 100                                  |
| 11740        | 11905           | 168.86915 | 168.60949    | 168.60949    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99729                                | Achieved          |             | 100                                  |
| 11750        | 11915           | 168.96331 | 168.58264    | 168.58264    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99729                                | Achieved          |             | 100                                  |
| 11760        | 11925           | 168.96463 | 168.5131     | 168.5131     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99729                                | Achieved          |             | 100                                  |
| 11770        | 11935           | 169.01287 | 168.43773    | 168.43773    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99728                                | Achieved          |             | 100                                  |
| 11780        | 11945           | 169.04099 | 168.40819    | 168.40819    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99731                                | Achieved          |             | 100                                  |
| 11790        | 11955           | 169.0948  | 168.34963    | 168.34963    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99731                                | Achieved          |             | 100                                  |
| 11800        | 11965           | 169.13438 | 168.34383    | 168.34383    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99731                                | Achieved          |             | 100                                  |
| 11810        | 11975           | 169.20739 | 168.33605    | 168.33605    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99732                                | Achieved          |             | 100                                  |
| 11820        | 11985           | 169.27722 | 168.35218    | 168.35218    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00273                                | Achieved          |             | 100                                  |
| 11830        | 11995           | 169.34321 | 168.40294    | 168.40294    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00243                                | Achieved          |             | 100                                  |
| 11840        | 12005           | 169.4046  | 168.45943    | 168.45943    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00707                                | Achieved          |             | 100                                  |
| 11850        | 12015           | 169.46306 | 168.50751    | 168.50751    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00698                                | Achieved          |             | 100                                  |
| 11860        | 12025           | 169.51938 | 168.57668    | 168.57668    |              |                     |               |                         |                         |                         |  |                   |             |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction | SSD Speed Achieved EDD Zacc RT (m/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|-------------|--------------------------------------|
| 12310        | 12475           | 173.81056 | 173.61554    | 173.61554    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98636                                | Achieved          |             | 100                                  |
| 12320        | 12485           | 173.86409 | 173.62226    | 173.62226    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98649                                | Achieved          |             | 100                                  |
| 12330        | 12495           | 173.93257 | 173.65148    | 173.65148    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98666                                | Achieved          |             | 100                                  |
| 12340        | 12505           | 174.00496 | 173.68189    | 173.68189    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98887                                | Achieved          |             | 100                                  |
| 12350        | 12515           | 174.03119 | 173.72441    | 173.72441    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98713                                | Achieved          |             | 100                                  |
| 12360        | 12525           | 173.86800 | 173.81059    | 173.81059    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99103                                | Achieved          |             | 100                                  |
| 12370        | 12535           | 173.8283  | 173.87129    | 173.87129    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.04118                                | Achieved          |             | 100                                  |
| 12380        | 12545           | 173.65886 | 173.94958    | 173.94958    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.11514                                | Achieved          |             | 100                                  |
| 12390        | 12555           | 173.51234 | 172.03247    | 172.03247    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.15727                                | Achieved          |             | 100                                  |
| 12400        | 12565           | 173.35631 | 172.09557    | 172.09557    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.09872                                | Achieved          |             | 100                                  |
| 12410        | 12575           | 173.17052 | 172.15706    | 172.15706    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.90882                                | Achieved          |             | 100                                  |
| 12420        | 12585           | 172.9977  | 172.22027    | 172.22027    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9882                                 | Achieved          |             | 100                                  |
| 12430        | 12595           | 172.84018 | 172.24854    | 172.24854    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.06236                                | Achieved          |             | 100                                  |
| 12440        | 12605           | 172.71382 | 172.21336    | 172.21336    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.40901                                | Achieved          |             | 100                                  |
| 12450        | 12615           | 172.62424 | 172.17863    | 172.17863    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.69676                                | Achieved          |             | 100                                  |
| 12460        | 12625           | 172.55993 | 172.1973     | 172.1973     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.1026                                 | Achieved          |             | 100                                  |
| 12470        | 12635           | 172.52681 | 172.25452    | 172.25452    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.69243                                | Achieved          |             | 100                                  |
| 12480        | 12645           | 172.51546 | 172.33998    | 172.33998    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.46784                                | Achieved          |             | 100                                  |
| 12490        | 12655           | 172.53593 | 172.47633    | 172.47633    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.4262                                 | Achieved          |             | 100                                  |
| 12500        | 12665           | 172.56365 | 172.63133    | 172.63133    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.37741                                | Achieved          |             | 100                                  |
| 12510        | 12675           | 172.60249 | 172.80026    | 172.80026    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.33038                                | Achieved          |             | 100                                  |
| 12520        | 12685           | 172.66996 | 173.20229    | 173.20229    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.4713                                 | Achieved          |             | 100                                  |
| 12530        | 12695           | 172.7438  | 173.59649    | 173.59649    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.13432                                | Achieved          |             | 100                                  |
| 12540        | 12705           | 172.81014 | 173.9802     | 173.9802     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.83949                                | Achieved          |             | 100                                  |
| 12550        | 12715           | 172.89061 | 174.30122    | 174.30122    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.38917                                | Achieved          |             | 100                                  |
| 12560        | 12725           | 172.96261 | 174.53737    | 174.53737    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.74483                                | Achieved          |             | 100                                  |
| 12570        | 12735           | 173.0298  | 174.70078    | 174.70078    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9289                                 | Achieved          |             | 100                                  |
| 12580        | 12745           | 173.08619 | 174.79807    | 174.79807    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.95852                                | Achieved          |             | 100                                  |
| 12590        | 12755           | 173.13866 | 174.87579    | 174.87579    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.8838                                 | Achieved          |             | 100                                  |
| 12600        | 12765           | 173.14143 | 174.97258    | 174.97258    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.76011                                | Achieved          |             | 100                                  |
| 12610        | 12775           | 173.08877 | 175.11043    | 175.11043    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.68063                                | Achieved          |             | 100                                  |
| 12620        | 12785           | 173.0834  | 175.2523     | 175.2523     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.66813                                | Achieved          |             | 100                                  |
| 12630        | 12795           | 173.12343 | 175.41654    | 175.41654    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.67379                                | Achieved          |             | 100                                  |
| 12640        | 12805           | 173.19303 | 175.59825    | 175.59825    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.68721                                | Achieved          |             | 100                                  |
| 12650        | 12815           | 173.30392 | 175.77721    | 175.77721    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.70842                                | Achieved          |             | 100                                  |
| 12660        | 12825           | 173.45749 | 175.92679    | 175.92679    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.74802                                | Achieved          |             | 100                                  |
| 12670        | 12835           | 173.65984 | 176.06157    | 176.06157    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.78243                                | Achieved          |             | 100                                  |
| 12680        | 12845           | 173.92737 | 176.17964    | 176.17964    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.81218                                | Achieved          |             | 100                                  |
| 12690        | 12855           | 174.28109 | 176.2837     | 176.2837     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.83795                                | Achieved          |             | 100                                  |
| 12700        | 12865           | 174.69169 | 176.37479    | 176.37479    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.8631                                 | Achieved          |             | 100                                  |
| 12710        | 12875           | 175.04919 | 176.44846    | 176.44846    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.8897                                 | Achieved          |             | 100                                  |
| 12720        | 12885           | 175.33488 | 176.52386    | 176.52386    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.91337                                | Achieved          |             | 100                                  |
| 12730        | 12895           | 175.52787 | 176.59232    | 176.59232    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9349                                 | Achieved          |             | 100                                  |
| 12740        | 12905           | 175.65468 | 176.65751    | 176.65751    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.94313                                | Achieved          |             | 100                                  |
| 12750        | 12915           | 175.73657 | 176.73876    | 176.73876    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9698                                 | Achieved          |             | 100                                  |
| 12760        | 12925           | 175.81812 | 176.8338     | 176.8338     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98249                                | Achieved          |             | 100                                  |
| 12770        | 12935           | 175.93833 | 176.95087    | 176.95087    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.96837                                | Achieved          |             | 100                                  |
| 12780        | 12945           | 176.07907 | 177.04258    | 177.04258    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.96883                                | Achieved          |             | 100                                  |
| 12790        | 12955           | 176.22974 | 177.09478    | 177.09478    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98928                                | Achieved          |             | 100                                  |
| 12800        | 12965           | 176.40038 | 177.09998    | 177.09998    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9699                                 | Achieved          |             | 100                                  |
| 12810        | 12975           | 176.59045 | 177.11173    | 177.11173    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97072                                | Achieved          |             | 100                                  |
| 12820        | 12985           | 176.79671 | 177.09345    | 177.09345    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97174                                | Achieved          |             | 100                                  |
| 12830        | 12995           | 176.99656 | 177.09013    | 177.09013    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97389                                | Achieved          |             | 100                                  |
| 12840        | 13005           | 177.00206 | 176.9981     | 176.9981     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98029                                | Achieved          |             | 100                                  |
| 12850        | 13015           | 177.11165 | 176.89738    | 176.89738    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97278                                | Achieved          |             | 100                                  |
| 12860        | 13025           | 177.2311  | 176.87903    | 176.87903    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98051                                | Achieved          |             | 100                                  |
| 12870        | 13035           | 177.31423 | 176.90699    | 176.90699    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97923                                | Achieved          |             | 100                                  |
| 12880        | 13045           | 177.38429 | 176.98462    | 176.98462    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97867                                | Achieved          |             | 100                                  |
| 12890        | 13055           | 177.4624  | 177.12719    | 177.12719    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9782                                 | Achieved          |             | 100                                  |
| 12900        | 13065           | 177.52253 | 177.29283    | 177.29283    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97783                                | Achieved          |             | 100                                  |
| 12910        | 13075           | 177.59489 | 177.44186    | 177.44186    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97756                                | Achieved          |             | 100                                  |
| 12920        | 13085           | 177.68349 | 177.59716    | 177.59716    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97739                                | Achieved          |             | 100                                  |
| 12930        | 13095           | 177.78909 | 177.71526    | 177.71526    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97734                                | Achieved          |             | 100                                  |
| 12940        | 13105           | 177.89921 | 177.81233    | 177.81233    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97736                                | Achieved          |             | 100                                  |
| 12950        | 13115           | 177.98178 | 177.93789    | 177.93789    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97749                                | Achieved          |             | 100                                  |
| 12960        | 13125           | 177.99773 | 178.11342    | 178.11342    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97773                                | Achieved          |             | 100                                  |
| 12970        | 13135           | 178.008   | 178.33803    | 178.33803    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97806                                | Achieved          |             | 100                                  |
| 12980        | 13145           | 177.97878 | 178.63937    | 178.63937    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9783                                 | Achieved          |             | 100                                  |
| 12990        | 13155           | 177.93122 | 178.97377    | 178.97377    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.97904                                | Achieved          |             | 100                                  |
| 13000        | 13165           | 177.92944 | 179.33931    | 179.33931    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98423                                | Achieved          |             | 100                                  |
| 13010        | 13175           | 177.93376 | 179.74303    | 179.74303    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99233                                | Achieved          |             | 100                                  |
| 13020        | 13185           | 177.7838  | 180.27474    | 180.27474    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.01566                                | Achieved          |             | 100                                  |
| 13030        | 13195           | 177.78508 | 180.81069    | 180.81069    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.03126                                | Achieved          |             | 100                                  |
| 13040        | 13205           | 177.83883 | 181.37936    | 181.37936    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.08137                                | Achieved          |             | 100                                  |
| 13050        | 13215           | 177.94872 | 181.89446    | 181.89446    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.09841                                | Achieved          |             | 100                                  |
| 13060        | 13225           | 178.10888 | 182.26526    | 182.26526    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.17664                                | Achieved          |             | 100                                  |
| 13070        | 13235           | 178.27121 | 182.5621     | 182.5621     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.07737                                | Achieved          |             | 100                                  |
| 13080        | 13245           | 178.41807 | 182.79438    | 182.79438    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99256                                | Achieved          |             | 100                                  |
| 13090        | 13255           | 178.59551 | 182.9096     | 182.9096     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.97017                                | Achieved          |             | 100                                  |
| 13100        | 13265           | 178.62564 | 183.02384    | 183.02384    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.87032                                | Achieved          |             | 100                                  |
| 13110        | 13275           | 178.76800 | 183.03161    | 183.03161    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.39003                                | Achieved          |             | 100                                  |
| 13120        | 13285           | 178.91952 | 182.93089    | 182.93089    | 100          | 0.00%</             |               |                         |                         |                         |  |                   |             |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zacc RT (m/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 13770        | 13735           | 186.36186 | 184.10434    | 184.10434    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.60226                                | Achieved          |                    | 100                                  |
| 13780        | 13745           | 186.14278 | 184.10713    | 184.10713    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.29792                                | Achieved          |                    | 100                                  |
| 13790        | 13755           | 185.89094 | 184.09949    | 184.09949    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.11623                                | Achieved          |                    | 100                                  |
| 13800        | 13765           | 185.64315 | 183.97476    | 183.97476    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.97903                                | Achieved          |                    | 100                                  |
| 13810        | 13775           | 185.40061 | 183.90668    | 183.90668    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.83003                                | Achieved          |                    | 100                                  |
| 13820        | 13785           | 185.19288 | 183.83843    | 183.83843    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.823                                  | Achieved          |                    | 100                                  |
| 13830        | 13790           | 185.00038 | 183.83483    | 183.83483    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 158.83834                                | Released          | Vertical alignment | 100                                  |
| 13840        | 13798           | 184.81754 | 183.86173    | 183.86173    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 158                     | 156.86008                                | Released          | Vertical alignment | 100                                  |
| 13850        | 13808           | 184.66641 | 183.83677    | 183.83677    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 158                     | 156.89487                                | Released          | Vertical alignment | 100                                  |
| 13860        | 13825           | 184.54888 | 183.79024    | 183.79024    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.93278                                | Achieved          |                    | 100                                  |
| 13870        | 13835           | 184.48548 | 183.76111    | 183.76111    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.02881                                | Achieved          |                    | 100                                  |
| 13880        | 13845           | 184.47492 | 183.73747    | 183.73747    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.14326                                | Achieved          |                    | 100                                  |
| 13890        | 13855           | 184.45917 | 183.68812    | 183.68812    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.28663                                | Achieved          |                    | 100                                  |
| 13900        | 13865           | 184.36719 | 183.62678    | 183.62678    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.48331                                | Achieved          |                    | 100                                  |
| 13910        | 13875           | 184.68847 | 183.59576    | 183.59576    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.63912                                | Achieved          |                    | 100                                  |
| 13920        | 13885           | 184.82253 | 183.59051    | 183.59051    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.73249                                | Achieved          |                    | 100                                  |
| 13930        | 13895           | 184.96943 | 183.70164    | 183.70164    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.83338                                | Achieved          |                    | 100                                  |
| 13940        | 13905           | 185.01732 | 183.90563    | 183.90563    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.87467                                | Achieved          |                    | 100                                  |
| 13950        | 13915           | 184.97193 | 184.21351    | 184.21351    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.87984                                | Achieved          |                    | 100                                  |
| 13960        | 13925           | 184.91065 | 184.36731    | 184.36731    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.78892                                | Achieved          |                    | 100                                  |
| 13970        | 13935           | 184.83217 | 183.03237    | 183.03237    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.63176                                | Achieved          |                    | 100                                  |
| 13980        | 13945           | 184.73933 | 182.56159    | 182.56159    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.41148                                | Achieved          |                    | 100                                  |
| 13990        | 13955           | 184.75483 | 186.0128     | 186.0128     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.11699                                | Achieved          |                    | 100                                  |
| 14000        | 13965           | 184.76089 | 186.32853    | 186.32853    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.74278                                | Achieved          |                    | 100                                  |
| 14010        | 13975           | 184.72886 | 186.51633    | 186.51633    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.26548                                | Achieved          |                    | 100                                  |
| 14020        | 13985           | 184.70867 | 186.53219    | 186.53219    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 156                     | 154.24919                                | Released          | Inside Curve       | 100                                  |
| 14030        | 13995           | 184.67213 | 186.56143    | 186.56143    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 148                     | 146.18316                                | Released          | Inside Curve       | 100                                  |
| 14040        | 13998           | 184.65408 | 186.56143    | 186.56143    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 138                     | 136.24298                                | Not Achieved      | Inside Curve       | 90                                   |
| 14050        | 14000           | 184.61631 | 186.58888    | 186.58888    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 139                     | 128.20235                                | Not Achieved      | Inside Curve       | 90                                   |
| 14060        | 14002           | 184.57796 | 186.61208    | 186.61208    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 122                     | 120.18064                                | Not Achieved      | Inside Curve       | 90                                   |
| 14070        | 14004           | 184.50882 | 186.63632    | 186.63632    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 114                     | 112.18748                                | Not Achieved      | Inside Curve       | 90                                   |
| 14080        | 14006           | 184.48294 | 186.65059    | 186.65059    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 106                     | 104.22731                                | Not Achieved      | Inside Curve       | 80                                   |
| 14090        | 14008           | 184.53949 | 186.66601    | 186.66601    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 100                     | 98.18926                                 | Not Achieved      | Inside Curve       | 70                                   |
| 14100        | 14010           | 184.69329 | 186.6739     | 186.6739     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 94                      | 92.19376                                 | Not Achieved      | Inside Curve       | 70                                   |
| 14110        | 14000           | 184.93382 | 186.67437    | 186.67437    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 90                      | 88.14643                                 | Not Achieved      | Inside Curve       | 70                                   |
| 14120        | 14006           | 185.27894 | 186.67043    | 186.67043    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 86                      | 84.17332                                 | Not Achieved      | Inside Curve       | 70                                   |
| 14130        | 14016           | 185.69116 | 186.64111    | 186.64111    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 86                      | 84.12898                                 | Not Achieved      | Inside Curve       | 70                                   |
| 14140        | 14026           | 186.20774 | 186.74026    | 186.74026    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 84                      | 86.28891                                 | Not Achieved      | Inside Curve       | 70                                   |
| 14150        | 14030           | 186.69633 | 187.25947    | 187.25947    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 100                     | 108.34454                                | Not Achieved      | Inside Curve       | 80                                   |
| 14160        | 14123           | 187.09269 | 187.33989    | 187.33989    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.36768                                | Achieved          |                    | 100                                  |
| 14170        | 14133           | 187.33266 | 187.30973    | 187.30973    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.76839                                | Achieved          |                    | 100                                  |
| 14180        | 14143           | 187.48888 | 187.27412    | 187.27412    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.08034                                | Achieved          |                    | 100                                  |
| 14190        | 14153           | 187.56601 | 187.18352    | 187.18352    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.2873                                 | Achieved          |                    | 100                                  |
| 14200        | 14163           | 187.57437 | 186.98224    | 186.98224    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.00913                                | Achieved          |                    | 100                                  |
| 14210        | 14168           | 187.552   | 186.89417    | 186.89417    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 158                     | 157.50904                                | Released          | Vertical alignment | 100                                  |
| 14220        | 14168           | 187.55913 | 186.89417    | 186.89417    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 153                     | 147.524                                  | Released          | Vertical alignment | 90                                   |
| 14230        | 14168           | 187.56323 | 186.89417    | 186.89417    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 138                     | 137.54114                                | Not Achieved      | Vertical alignment | 90                                   |
| 14240        | 14170           | 187.52612 | 186.83246    | 186.83246    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 130                     | 129.54289                                | Not Achieved      | Vertical alignment | 90                                   |
| 14250        | 14172           | 188.0146  | 186.7703     | 186.7703     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 122                     | 121.58081                                | Not Achieved      | Vertical alignment | 90                                   |
| 14260        | 14176           | 188.19947 | 186.64346    | 186.64346    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 116                     | 115.53932                                | Not Achieved      | Vertical alignment | 80                                   |
| 14270        | 14180           | 188.33143 | 186.52066    | 186.52066    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 110                     | 109.54947                                | Not Achieved      | Vertical alignment | 80                                   |
| 14280        | 14184           | 188.37326 | 186.39446    | 186.39446    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 104                     | 103.53126                                | Not Achieved      | Vertical alignment | 80                                   |
| 14290        | 14190           | 188.39669 | 186.18749    | 186.18749    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 100                     | 99.55377                                 | Not Achieved      | Vertical alignment | 80                                   |
| 14300        | 14203           | 188.37676 | 186.44396    | 186.44396    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.24693                                | Achieved          |                    | 100                                  |
| 14310        | 14213           | 188.3155  | 184.23134    | 184.23134    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.33012                                | Achieved          |                    | 100                                  |
| 14320        | 14223           | 188.2722  | 183.97853    | 183.97853    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.44719                                | Achieved          |                    | 100                                  |
| 14330        | 14233           | 188.24168 | 183.73448    | 183.73448    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.53798                                | Achieved          |                    | 100                                  |
| 14340        | 14243           | 188.19973 | 183.54388    | 183.54388    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.62078                                | Achieved          |                    | 100                                  |
| 14350        | 14253           | 188.14369 | 183.34633    | 183.34633    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.70147                                | Achieved          |                    | 100                                  |
| 14360        | 14263           | 187.99806 | 183.12631    | 183.12631    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.77332                                | Achieved          |                    | 100                                  |
| 14370        | 14273           | 187.73246 | 182.94085    | 182.94085    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.83438                                | Achieved          |                    | 100                                  |
| 14380        | 14283           | 187.42096 | 182.82219    | 182.82219    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.88387                                | Achieved          |                    | 100                                  |
| 14390        | 14293           | 187.08749 | 182.70202    | 182.70202    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.92323                                | Achieved          |                    | 100                                  |
| 14400        | 14303           | 186.73876 | 182.51714    | 182.51714    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.96288                                | Achieved          |                    | 100                                  |
| 14410        | 14313           | 186.4117  | 182.46704    | 182.46704    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98039                                | Achieved          |                    | 100                                  |
| 14420        | 14323           | 186.13643 | 182.33938    | 182.33938    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9833                                 | Achieved          |                    | 100                                  |
| 14430        | 14333           | 185.92711 | 182.21593    | 182.21593    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9863                                 | Achieved          |                    | 100                                  |
| 14440        | 14343           | 185.73234 | 182.10848    | 182.10848    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98939                                | Achieved          |                    | 100                                  |
| 14450        | 14353           | 185.58928 | 182.03449    | 182.03449    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99218                                | Achieved          |                    | 100                                  |
| 14460        | 14363           | 185.4284  | 182.00021    | 182.00021    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99488                                | Achieved          |                    | 100                                  |
| 14470        | 14373           | 185.25124 | 181.91       | 181.91       | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99843                                | Achieved          |                    | 100                                  |
| 14480        | 14383           | 185.07088 | 181.96727    | 181.96727    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99938                                | Achieved          |                    | 100                                  |
| 14490        | 14393           | 184.74973 | 181.98234    | 181.98234    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.0029                                 | Achieved          |                    | 100                                  |
| 14500        | 14403           | 184.53451 | 182.0068     | 182.0068     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00648                                | Achieved          |                    | 100                                  |
| 14510        | 14413           | 184.3469  | 181.99308    | 181.99308    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00704                                | Achieved          |                    | 100                                  |
| 14520        | 14423           | 184.13983 | 181.9639     | 181.9639     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00414                                | Achieved          |                    | 100                                  |
| 14530        | 14433           | 183.92443 | 181.88391    | 181.88391    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00117                                | Achieved          |                    | 100                                  |
| 14540        | 14443           | 183.73909 | 181.82418    | 181.82418    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.00077                                | Achieved          |                    | 100                                  |
| 14550        | 14453           | 183.67429 | 181.77266    | 181.77266    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99737                                | Achieved          |                    | 100                                  |
| 14560        | 14463           | 183.57882 | 181.72111    | 181.72111    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99736                                | Achieved          |                    | 100                                  |
| 14570        | 14473           | 183.44335 | 181.6368     | 181.6368     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99736                                | Achieved          |                    | 100                                  |
| 14580        | 14              |           |              |              |              |                     |               |                         |                         |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zacc RT (ft/m/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|--------------------|---|
| 14830        | 14995           | 185.89387 | 185.01375    | 185.01375    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                     |
| 14840        | 15005           | 185.89879 | 185.04797    | 185.04797    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                     |
| 14850        | 15015           | 185.92316 | 185.09306    | 185.09306    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                     |
| 14860        | 15025           | 185.92818 | 185.12325    | 185.12325    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                     |
| 14870        | 15035           | 185.92218 | 185.13965    | 185.13965    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                     |
| 14880        | 15045           | 185.91068 | 185.14135    | 185.14135    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                     |
| 14890        | 15055           | 185.88839 | 185.15066    | 185.15066    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                     |
| 14900        | 15065           | 185.89664 | 185.13917    | 185.13917    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98699                                | Achieved          |                    | 100                                     |
| 14910        | 15075           | 185.89882 | 185.18253    | 185.18253    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98664                                | Achieved          |                    | 100                                     |
| 14920        | 15085           | 185.89136 | 185.23987    | 185.23987    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98633                                | Achieved          |                    | 100                                     |
| 14930        | 15095           | 185.84303 | 185.26786    | 185.26786    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98609                                | Achieved          |                    | 100                                     |
| 14940        | 15105           | 185.87613 | 185.29733    | 185.29733    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98588                                | Achieved          |                    | 100                                     |
| 14950        | 15115           | 185.76064 | 185.3215     | 185.3215     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98572                                | Achieved          |                    | 100                                     |
| 14960        | 15125           | 185.7566  | 185.39379    | 185.39379    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9856                                 | Achieved          |                    | 100                                     |
| 14970        | 15135           | 185.80787 | 185.46642    | 185.46642    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98533                                | Achieved          |                    | 100                                     |
| 14980        | 15145           | 185.85159 | 185.544      | 185.544      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98531                                | Achieved          |                    | 100                                     |
| 14990        | 15155           | 185.89729 | 185.59039    | 185.59039    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98532                                | Achieved          |                    | 100                                     |
| 15000        | 15165           | 185.92804 | 185.59873    | 185.59873    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98539                                | Achieved          |                    | 100                                     |
| 15010        | 15175           | 185.97388 | 185.57456    | 185.57456    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9857                                 | Achieved          |                    | 100                                     |
| 15020        | 15185           | 186.00666 | 185.56974    | 185.56974    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98583                                | Achieved          |                    | 100                                     |
| 15030        | 15195           | 186.01138 | 185.63264    | 185.63264    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98602                                | Achieved          |                    | 100                                     |
| 15040        | 15205           | 186.04094 | 185.70463    | 185.70463    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98629                                | Achieved          |                    | 100                                     |
| 15050        | 15215           | 186.04943 | 185.72333    | 185.72333    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98628                                | Achieved          |                    | 100                                     |
| 15060        | 15225           | 186.04693 | 185.71966    | 185.71966    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98692                                | Achieved          |                    | 100                                     |
| 15070        | 15235           | 186.0473  | 185.63442    | 185.63442    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                     |
| 15080        | 15245           | 186.12381 | 185.48678    | 185.48678    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 162                     | 162                                      | Released          | Vertical alignment | 100                                     |
| 15090        | 15242           | 186.15238 | 185.48678    | 185.48678    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 152                     | 152                                      | Released          | Vertical alignment | 100                                     |
| 15100        | 15244           | 186.18652 | 185.43143    | 185.43143    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 144                     | 144                                      | Released          | Vertical alignment | 100                                     |
| 15110        | 15244           | 186.20951 | 185.43143    | 185.43143    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 134                     | 134                                      | Not Achieved      | Vertical alignment | 90                                      |
| 15120        | 15244           | 186.25468 | 185.43143    | 185.43143    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 124                     | 124                                      | Not Achieved      | Vertical alignment | 90                                      |
| 15130        | 15246           | 186.30403 | 185.37346    | 185.37346    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 116                     | 116                                      | Not Achieved      | Vertical alignment | 80                                      |
| 15140        | 15246           | 186.40513 | 185.37346    | 185.37346    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 106                     | 106                                      | Not Achieved      | Vertical alignment | 80                                      |
| 15150        | 15248           | 186.47603 | 185.30324    | 185.30324    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 98                      | 98                                       | Not Achieved      | Vertical alignment | 70                                      |
| 15160        | 15250           | 186.4983  | 185.23283    | 185.23283    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 90                      | 90                                       | Not Achieved      | Vertical alignment | 70                                      |
| 15170        | 15250           | 186.49162 | 185.23283    | 185.23283    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 80                      | 80                                       | Not Achieved      | Vertical alignment | 80                                      |
| 15180        | 15252           | 186.46989 | 185.1372     | 185.1372     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 72                      | 72                                       | Not Achieved      | Vertical alignment | 80                                      |
| 15190        | 15256           | 186.49364 | 184.99244    | 184.99244    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 66                      | 63.39873                                 | Not Achieved      | Vertical alignment | 80                                      |
| 15200        | 15245           | 186.57168 | 184.9413     | 184.9413     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 63                      | 64.4314                                  | Achieved          |                    | 80                                      |
| 15210        | 15275           | 186.61932 | 184.33443    | 184.33443    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.1071                                 | Achieved          |                    | 100                                     |
| 15220        | 15283           | 186.62641 | 184.31192    | 184.31192    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.83606                                | Achieved          |                    | 100                                     |
| 15230        | 15293           | 186.5937  | 184.35982    | 184.35982    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.6203                                 | Achieved          |                    | 100                                     |
| 15240        | 15303           | 186.43684 | 184.42199    | 184.42199    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.47382                                | Achieved          |                    | 100                                     |
| 15250        | 15313           | 186.13283 | 184.52038    | 184.52038    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.38339                                | Achieved          |                    | 100                                     |
| 15260        | 15323           | 185.72732 | 184.54033    | 184.54033    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.41924                                | Achieved          |                    | 100                                     |
| 15270        | 15333           | 185.35888 | 184.47631    | 184.47631    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.37442                                | Achieved          |                    | 100                                     |
| 15280        | 15343           | 185.12448 | 184.34476    | 184.34476    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.37032                                | Achieved          |                    | 100                                     |
| 15290        | 15353           | 185.03888 | 184.67183    | 184.67183    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.01007                                | Achieved          |                    | 100                                     |
| 15300        | 15363           | 185.06683 | 184.81942    | 184.81942    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.23416                                | Achieved          |                    | 100                                     |
| 15310        | 15373           | 185.16736 | 185.04891    | 185.04891    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.21923                                | Achieved          |                    | 100                                     |
| 15320        | 15383           | 185.29013 | 185.42903    | 185.42903    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.18498                                | Achieved          |                    | 100                                     |
| 15330        | 15393           | 185.36209 | 186.00681    | 186.00681    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.8747                                 | Achieved          |                    | 100                                     |
| 15340        | 15403           | 185.34782 | 186.79309    | 186.79309    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.56687                                | Achieved          |                    | 100                                     |
| 15350        | 15413           | 185.3274  | 187.52698    | 187.52698    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.27251                                | Achieved          |                    | 100                                     |
| 15360        | 15423           | 185.28084 | 188.21963    | 188.21963    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.0186                                 | Achieved          |                    | 100                                     |
| 15370        | 15433           | 185.24653 | 188.80037    | 188.80037    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.84198                                | Achieved          |                    | 100                                     |
| 15380        | 15443           | 185.21236 | 188.91994    | 188.91994    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.80668                                | Achieved          |                    | 100                                     |
| 15390        | 15453           | 185.23077 | 188.90638    | 188.90638    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 156                     | 153.93093                                | Released          | Vertical alignment | 100                                     |
| 15400        | 15463           | 185.28006 | 188.90638    | 188.90638    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 146                     | 144.11783                                | Released          | Vertical alignment | 100                                     |
| 15410        | 15466           | 185.36116 | 188.90638    | 188.90638    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 136                     | 134.36904                                | Not Achieved      | Vertical alignment | 90                                      |
| 15420        | 15466           | 185.43491 | 188.90638    | 188.90638    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 126                     | 124.64836                                | Not Achieved      | Vertical alignment | 90                                      |
| 15430        | 15464           | 185.41826 | 188.92606    | 188.92606    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 114                     | 112.93824                                | Not Achieved      | Vertical alignment | 80                                      |
| 15440        | 15464           | 185.39217 | 188.92606    | 188.92606    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 104                     | 103.24683                                | Not Achieved      | Vertical alignment | 80                                      |
| 15450        | 15464           | 185.36039 | 188.92606    | 188.92606    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 94                      | 93.23481                                 | Not Achieved      | Vertical alignment | 80                                      |
| 15460        | 15464           | 185.34732 | 188.92606    | 188.92606    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 84                      | 83.72378                                 | Not Achieved      | Vertical alignment | 70                                      |
| 15470        | 15462           | 185.31774 | 188.93809    | 188.93809    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 72                      | 71.82193                                 | Not Achieved      | Vertical alignment | 60                                      |
| 15480        | 15462           | 185.11748 | 188.93809    | 188.93809    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 62                      | 61.91849                                 | Not Achieved      | Vertical alignment | 50                                      |
| 15490        | 15462           | 185.59213 | 188.93809    | 188.93809    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 52                      | 51.97356                                 | Not Achieved      | Vertical alignment | 40                                      |
| 15500        | 15462           | 187.26812 | 188.93809    | 188.93809    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 42                      | 42                                       | Not Achieved      | Vertical alignment | 30                                      |
| 15510        | 15466           | 188.04604 | 188.90638    | 188.90638    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 36                      | 36                                       | Not Achieved      | Vertical alignment | 20                                      |
| 15520        | 15532           | 188.79965 | 188.74765    | 188.74765    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 32                      | 32                                       | Not Achieved      | Vertical alignment | FALSE                                   |
| 15530        | 15543           | 188.46932 | 188.87734    | 188.87734    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 32                      | 163.61396                                | Achieved          |                    | 100                                     |
| 15540        | 15696           | 189.82356 | 189.89607    | 189.89607    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 136                     | 134.61992                                | Released          | Inside Curve       | 100                                     |
| 15550        | 15688           | 189.7031  | 189.93418    | 189.93418    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 148                     | 146.57966                                | Released          | Inside Curve       | 100                                     |
| 15560        | 15700           | 189.36873 | 189.97221    | 189.97221    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 140                     | 138.53851                                | Not Achieved      | Inside Curve       | 90                                      |
| 15570        | 15702           | 189.03223 | 190.00303    | 190.00303    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 132                     | 130.57001                                | Not Achieved      | Inside Curve       | 90                                      |
| 15580        | 15704           | 188.77608 | 190.02618    | 190.02618    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 124                     | 122.62054                                | Not Achieved      | Inside Curve       | 90                                      |
| 15590        | 15708           | 188.62597 | 190.07821    | 190.07821    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 118                     | 116.64042                                | Not Achieved      | Inside Curve       | 80                                      |
| 15600        | 15714           | 188.627   | 190.13968    | 190.13968    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 114                     | 112.84997                                | Not Achieved      | Inside Curve       | 80                                      |
| 15610        | 15724           | 188.77109 | 190.30364    | 190.30364    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 114                     | 112.77331                                | Not Achieved      | Inside Curve       | 80                                      |
| 15620        | 15746           | 188.88383 | 190.88386    | 190.88386    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 126                     | 124.91864                                | Not Achieved      | Inside Curve       | 80                                      |
| 15630        | 15753           | 189.18823 | 192.60002    | 192.60002    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.13624                                | Achieved          |                    | 100                                     |
| 15640        | 15809           | 189.43093 | 193.0761     | 193.0761     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.62417                                | Achie             |                    |   |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved<br>EDD Zacc RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|--------------------|--|
| 16090        | 16228           | 209.37822 | 212.18903    | 212.18903    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 138                     | 137.96307                                | Not Achieved      | Vertical alignment | 90                                       |
| 16100        | 16230           | 209.70984 | 212.19364    | 212.19364    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 130                     | 129.99191                                | Not Achieved      | Vertical alignment | 90                                       |
| 16110        | 16230           | 210.09913 | 212.19364    | 212.19364    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 120                     | 120                                      | Not Achieved      | Vertical alignment | 90                                       |
| 16120        | 16234           | 210.37694 | 212.18137    | 212.18137    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 113                     | 111                                      | Not Achieved      | Vertical alignment | 80                                       |
| 16130        | 16234           | 210.65774 | 212.18137    | 212.18137    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 104                     | 104                                      | Not Achieved      | Vertical alignment | 80                                       |
| 16140        | 16236           | 211.02637 | 212.17041    | 212.17041    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 96                      | 96                                       | Not Achieved      | Vertical alignment | 70                                       |
| 16150        | 16238           | 211.29499 | 212.15492    | 212.15492    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 88                      | 88                                       | Not Achieved      | Vertical alignment | 70                                       |
| 16160        | 16242           | 211.54763 | 212.12676    | 212.12676    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 82                      | 82                                       | Not Achieved      | Vertical alignment | 70                                       |
| 16170        | 16240           | 211.81832 | 212.09997    | 212.09997    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 80                      | 80                                       | Not Achieved      | Vertical alignment | 80                                       |
| 16180        | 16282           | 212.11474 | 211.88152    | 211.88152    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 102                     | 102                                      | Not Achieved      | Vertical alignment | 80                                       |
| 16190        | 16338           | 212.41071 | 211.24431    | 211.24431    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 146                     | 145.54533                                | Released          | Vertical alignment | 100                                      |
| 16200        | 16365           | 212.65998 | 210.86297    | 210.86297    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.51969                                | Achieved          |                    | 100                                      |
| 16210        | 16373           | 212.90636 | 210.83449    | 210.83449    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.19389                                | Achieved          |                    | 100                                      |
| 16220        | 16383           | 213.02427 | 210.81382    | 210.81382    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.79311                                | Achieved          |                    | 100                                      |
| 16230        | 16393           | 213.09364 | 210.79803    | 210.79803    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.24489                                | Achieved          |                    | 100                                      |
| 16240        | 16403           | 213.04268 | 210.74317    | 210.74317    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.71033                                | Achieved          |                    | 100                                      |
| 16250        | 16410           | 212.99997 | 210.73033    | 210.73033    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 160                     | 157.50601                                | Released          | Inside Curve       | 100                                      |
| 16260        | 16414           | 212.86898 | 210.70221    | 210.70221    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 154                     | 151.38739                                | Released          | Inside Curve       | 100                                      |
| 16270        | 16420           | 212.83254 | 210.66003    | 210.66003    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 150                     | 147.21849                                | Released          | Inside Curve       | 100                                      |
| 16280        | 16426           | 212.79659 | 210.62042    | 210.62042    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 146                     | 145.10987                                | Released          | Inside Curve       | 100                                      |
| 16290        | 16436           | 212.76177 | 210.57038    | 210.57038    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 142                     | 141.23871                                | Released          | Inside Curve       | 100                                      |
| 16300        | 16448           | 212.62023 | 210.50023    | 210.50023    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 148                     | 144.83363                                | Released          | Inside Curve       | 100                                      |
| 16310        | 16456           | 212.46977 | 210.29886    | 210.29886    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 146                     | 143.01993                                | Released          | Inside Curve       | 100                                      |
| 16320        | 16468           | 212.32081 | 210.06196    | 210.06196    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 148                     | 145.26392                                | Released          | Inside Curve       | 100                                      |
| 16330        | 16493           | 212.22926 | 209.62352    | 209.62352    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.3248                                 | Achieved          |                    | 100                                      |
| 16340        | 16505           | 212.08733 | 209.43276    | 209.43276    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.04118                                | Achieved          |                    | 100                                      |
| 16350        | 16515           | 211.99397 | 209.283      | 209.283      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.61932                                | Achieved          |                    | 100                                      |
| 16360        | 16523           | 211.82072 | 209.08232    | 209.08232    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.08721                                | Achieved          |                    | 100                                      |
| 16370        | 16533           | 211.74488 | 208.89584    | 208.89584    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.4347                                 | Achieved          |                    | 100                                      |
| 16380        | 16540           | 211.71812 | 208.63206    | 208.63206    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.67746                                | Achieved          |                    | 100                                      |
| 16390        | 16553           | 211.7068  | 208.4219     | 208.4219     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.82674                                | Achieved          |                    | 100                                      |
| 16400        | 16563           | 211.67312 | 208.18469    | 208.18469    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.91539                                | Achieved          |                    | 100                                      |
| 16410        | 16573           | 211.63033 | 207.93221    | 207.93221    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.94947                                | Achieved          |                    | 100                                      |
| 16420        | 16583           | 211.56003 | 207.73936    | 207.73936    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.96943                                | Achieved          |                    | 100                                      |
| 16430        | 16593           | 211.49601 | 207.54168    | 207.54168    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98731                                | Achieved          |                    | 100                                      |
| 16440        | 16603           | 211.40491 | 207.33919    | 207.33919    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16450        | 16613           | 211.26037 | 207.14403    | 207.14403    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16460        | 16623           | 211.08464 | 206.92013    | 206.92013    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16470        | 16633           | 210.93321 | 206.72417    | 206.72417    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16480        | 16643           | 210.79617 | 206.57368    | 206.57368    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.01481                                | Achieved          |                    | 100                                      |
| 16490        | 16653           | 210.60537 | 206.41477    | 206.41477    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.09091                                | Achieved          |                    | 100                                      |
| 16500        | 16663           | 210.43933 | 206.22802    | 206.22802    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.16431                                | Achieved          |                    | 100                                      |
| 16510        | 16673           | 210.2753  | 206.03398    | 206.03398    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.12879                                | Achieved          |                    | 100                                      |
| 16520        | 16683           | 210.08811 | 205.82975    | 205.82975    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.38894                                | Achieved          |                    | 100                                      |
| 16530        | 16693           | 209.87423 | 205.62324    | 205.62324    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.2645                                 | Achieved          |                    | 100                                      |
| 16540        | 16703           | 209.63894 | 205.46023    | 205.46023    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.98923                                | Achieved          |                    | 100                                      |
| 16550        | 16713           | 209.42333 | 205.30034    | 205.30034    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.20845                                | Achieved          |                    | 100                                      |
| 16560        | 16723           | 209.21367 | 205.16028    | 205.16028    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.3824                                 | Achieved          |                    | 100                                      |
| 16570        | 16733           | 208.99162 | 205.04023    | 205.04023    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.72356                                | Achieved          |                    | 100                                      |
| 16580        | 16743           | 208.72403 | 204.92064    | 204.92064    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.26356                                | Achieved          |                    | 100                                      |
| 16590        | 16753           | 208.53733 | 204.79077    | 204.79077    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.00421                                | Achieved          |                    | 100                                      |
| 16600        | 16763           | 208.34439 | 204.62396    | 204.62396    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 160.94236                                | Achieved          |                    | 100                                      |
| 16610        | 16773           | 208.14428 | 204.44824    | 204.44824    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.08028                                | Achieved          |                    | 100                                      |
| 16620        | 16783           | 207.94933 | 204.29787    | 204.29787    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.41745                                | Achieved          |                    | 100                                      |
| 16630        | 16793           | 207.74669 | 204.12076    | 204.12076    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 161.92263                                | Achieved          |                    | 100                                      |
| 16640        | 16803           | 207.53722 | 203.98241    | 203.98241    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 162.68313                                | Achieved          |                    | 100                                      |
| 16650        | 16813           | 207.40531 | 203.78084    | 203.78084    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.51324                                | Achieved          |                    | 100                                      |
| 16660        | 16823           | 207.2161  | 203.63469    | 203.63469    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.22316                                | Achieved          |                    | 100                                      |
| 16670        | 16833           | 207.03666 | 203.51583    | 203.51583    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.7243                                 | Achieved          |                    | 100                                      |
| 16680        | 16843           | 206.82819 | 203.37737    | 203.37737    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.02878                                | Achieved          |                    | 100                                      |
| 16690        | 16853           | 206.631   | 203.25816    | 203.25816    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.13801                                | Achieved          |                    | 100                                      |
| 16700        | 16863           | 206.43377 | 203.13533    | 203.13533    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.14745                                | Achieved          |                    | 100                                      |
| 16710        | 16873           | 206.2378  | 203.02371    | 203.02371    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.02328                                | Achieved          |                    | 100                                      |
| 16720        | 16883           | 206.12483 | 202.92679    | 202.92679    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00000                                | Achieved          |                    | 100                                      |
| 16730        | 16893           | 206.00389 | 202.87232    | 202.87232    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16740        | 16903           | 205.87913 | 202.76854    | 202.76854    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16750        | 16913           | 205.739   | 202.67936    | 202.67936    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16760        | 16923           | 205.61679 | 202.60697    | 202.60697    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16770        | 16933           | 205.43872 | 202.5064     | 202.5064     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16780        | 16943           | 205.27135 | 202.42723    | 202.42723    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16790        | 16953           | 205.12303 | 202.42379    | 202.42379    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16800        | 16963           | 204.96802 | 202.4061     | 202.4061     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16810        | 16973           | 204.78138 | 202.37936    | 202.37936    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16820        | 16983           | 204.59676 | 202.37837    | 202.37837    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16830        | 16993           | 204.47437 | 202.4        | 202.4        | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16840        | 17003           | 204.34427 | 202.41877    | 202.41877    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16850        | 17013           | 204.20268 | 202.44128    | 202.44128    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16860        | 17023           | 204.10695 | 202.49224    | 202.49224    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16870        | 17033           | 203.9763  | 202.54184    | 202.54184    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16880        | 17043           | 203.80006 | 202.59478    | 202.59478    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16890        | 17053           | 203.6231  | 202.60759    | 202.60759    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16900        | 17063           | 203.51777 | 202.60564    | 202.60564    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163                                      | Achieved          |                    | 100                                      |
| 16910        | 17073           | 203.61933 | 202.60051    | 202.60051    |              |                     |               |                         |                         |                         |  |                   |                    |  |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Released | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction | SSD Speed Achieved EDD 2sec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|-------------------------|-------------------------|--|-------------------|-------------|---------------------------------------|
| 17350        | 17515           | 202.40881 | 201.46683    | 201.46683    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00496                                | Achieved          |             | 100                                   |
| 17360        | 17525           | 202.42609 | 201.50436    | 201.50436    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00493                                | Achieved          |             | 100                                   |
| 17370        | 17535           | 202.39991 | 201.53963    | 201.53963    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00347                                | Achieved          |             | 100                                   |
| 17380        | 17545           | 202.37226 | 201.59268    | 201.59268    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00318                                | Achieved          |             | 100                                   |
| 17390        | 17555           | 202.36532 | 201.62699    | 201.62699    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 163.00248                                | Achieved          |             | 100                                   |
| 17400        | 17565           | 202.37861 | 201.71909    | 201.71909    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98989                                | Achieved          |             | 100                                   |
| 17410        | 17575           | 202.37863 | 201.80066    | 201.80066    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.98973                                | Achieved          |             | 100                                   |
| 17420        | 17585           | 202.37415 | 201.84402    | 201.84402    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9961                                 | Achieved          |             | 100                                   |
| 17430        | 17595           | 202.34443 | 201.89763    | 201.89763    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99613                                | Achieved          |             | 100                                   |
| 17440        | 17605           | 202.31875 | 201.9626     | 201.9626     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99829                                | Achieved          |             | 100                                   |
| 17450        | 17615           | 202.30903 | 202.01662    | 202.01662    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165.01132                                | Achieved          |             | 100                                   |
| 17460        | 17625           | 202.29142 | 202.05025    | 202.05025    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17470        | 17635           | 202.27029 | 202.08426    | 202.08426    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17480        | 17645           | 202.2707  | 202.1478     | 202.1478     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17490        | 17655           | 202.30932 | 202.1863     | 202.1863     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17500        | 17665           | 202.34961 | 202.22343    | 202.22343    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17510        | 17675           | 202.33824 | 202.2929     | 202.2929     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17520        | 17685           | 202.38307 | 202.37888    | 202.37888    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17530        | 17695           | 202.42284 | 202.43027    | 202.43027    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17540        | 17705           | 202.46192 | 202.46839    | 202.46839    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17550        | 17715           | 202.53528 | 202.50881    | 202.50881    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17560        | 17725           | 202.58636 | 202.57303    | 202.57303    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17570        | 17735           | 202.66221 | 202.63993    | 202.63993    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17580        | 17745           | 202.71562 | 202.67464    | 202.67464    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17590        | 17755           | 202.77182 | 202.71395    | 202.71395    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17600        | 17765           | 202.826   | 202.72348    | 202.72348    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17610        | 17775           | 202.89219 | 202.76004    | 202.76004    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17620        | 17785           | 202.93631 | 202.81895    | 202.81895    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17630        | 17795           | 202.96312 | 202.86939    | 202.86939    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17640        | 17805           | 203.01254 | 202.89897    | 202.89897    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17650        | 17815           | 203.06937 | 202.96811    | 202.96811    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17660        | 17825           | 203.1028  | 203.04224    | 203.04224    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17670        | 17835           | 203.14894 | 203.10779    | 203.10779    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17680        | 17845           | 203.23634 | 203.16933    | 203.16933    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17690        | 17855           | 203.30436 | 203.25187    | 203.25187    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17700        | 17865           | 203.3533  | 203.34099    | 203.34099    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17710        | 17875           | 203.38939 | 203.41094    | 203.41094    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17720        | 17885           | 203.43772 | 203.4714     | 203.4714     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17730        | 17895           | 203.51052 | 203.52604    | 203.52604    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17740        | 17905           | 203.55744 | 203.57951    | 203.57951    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17750        | 17915           | 203.59578 | 203.63972    | 203.63972    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17760        | 17925           | 203.62376 | 203.72019    | 203.72019    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17770        | 17935           | 203.63491 | 203.79135    | 203.79135    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17780        | 17945           | 203.68895 | 203.87821    | 203.87821    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17790        | 17955           | 203.74947 | 203.91993    | 203.91993    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17800        | 17965           | 203.78279 | 204.00963    | 204.00963    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99871                                | Achieved          |             | 100                                   |
| 17810        | 17975           | 203.83184 | 204.07139    | 204.07139    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99871                                | Achieved          |             | 100                                   |
| 17820        | 17985           | 203.90782 | 204.14962    | 204.14962    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99871                                | Achieved          |             | 100                                   |
| 17830        | 17995           | 203.97254 | 204.24737    | 204.24737    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99871                                | Achieved          |             | 100                                   |
| 17840        | 18005           | 204.04003 | 204.34182    | 204.34182    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9987                                 | Achieved          |             | 100                                   |
| 17850        | 18015           | 204.10385 | 204.43873    | 204.43873    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9987                                 | Achieved          |             | 100                                   |
| 17860        | 18025           | 204.19798 | 204.50098    | 204.50098    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9987                                 | Achieved          |             | 100                                   |
| 17870        | 18035           | 204.28233 | 204.56089    | 204.56089    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9987                                 | Achieved          |             | 100                                   |
| 17880        | 18045           | 204.31799 | 204.59958    | 204.59958    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9987                                 | Achieved          |             | 100                                   |
| 17890        | 18055           | 204.40345 | 204.64748    | 204.64748    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9987                                 | Achieved          |             | 100                                   |
| 17900        | 18065           | 204.44941 | 204.70808    | 204.70808    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9987                                 | Achieved          |             | 100                                   |
| 17910        | 18075           | 204.50621 | 204.76341    | 204.76341    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9987                                 | Achieved          |             | 100                                   |
| 17920        | 18085           | 204.57907 | 204.8297     | 204.8297     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9987                                 | Achieved          |             | 100                                   |
| 17930        | 18095           | 204.63399 | 204.88518    | 204.88518    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99871                                | Achieved          |             | 100                                   |
| 17940        | 18105           | 204.72723 | 204.93979    | 204.93979    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99871                                | Achieved          |             | 100                                   |
| 17950        | 18115           | 204.78529 | 204.9757     | 204.9757     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99871                                | Achieved          |             | 100                                   |
| 17960        | 18125           | 204.86461 | 204.99638    | 204.99638    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99909                                | Achieved          |             | 100                                   |
| 17970        | 18135           | 204.94325 | 205.03125    | 205.03125    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17980        | 18145           | 205.01301 | 205.04547    | 205.04547    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17990        | 18155           | 205.09242 | 205.08094    | 205.08094    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 18000        | 18165           | 205.19699 | 205.10097    | 205.10097    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99539                                | Achieved          |             | 100                                   |
| 18010        | 18175           | 205.28968 | 205.11169    | 205.11169    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99533                                | Achieved          |             | 100                                   |
| 18020        | 18185           | 205.37681 | 205.14578    | 205.14578    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99532                                | Achieved          |             | 100                                   |
| 18030        | 18195           | 205.43223 | 205.18416    | 205.18416    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99549                                | Achieved          |             | 100                                   |
| 18040        | 18205           | 205.48131 | 205.22317    | 205.22317    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99547                                | Achieved          |             | 100                                   |
| 18050        | 18215           | 205.53081 | 205.2723     | 205.2723     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99543                                | Achieved          |             | 100                                   |
| 18060        | 18225           | 205.57607 | 205.29132    | 205.29132    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99544                                | Achieved          |             | 100                                   |
| 18070        | 18235           | 205.63475 | 205.3114     | 205.3114     | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99543                                | Achieved          |             | 100                                   |
| 18080        | 18245           | 205.69392 | 205.31122    | 205.31122    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99543                                | Achieved          |             | 100                                   |
| 18090        | 18255           | 205.73858 | 205.29408    | 205.29408    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99543                                | Achieved          |             | 100                                   |
| 18100        | 18265           | 205.81067 | 205.28993    | 205.28993    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99544                                | Achieved          |             | 100                                   |
| 18110        | 18275           | 205.86456 | 205.30164    | 205.30164    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99546                                | Achieved          |             | 100                                   |
| 18120        | 18285           | 205.89683 | 205.354      | 205.354      | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99547                                | Achieved          |             | 100                                   |
| 18130        | 18295           | 205.9025  | 205.38033    | 205.38033    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9955                                 | Achieved          |             | 100                                   |
| 18140        | 18305           | 205.93123 | 205.39477    | 205.39477    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99533                                | Achieved          |             | 100                                   |
| 18150        | 18315           | 205.9681  | 205.44046    | 205.44046    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.99536                                | Achieved          |             | 100                                   |
| 18160        | 18325           | 205.98687 | 205.46521    | 205.46521    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 164.9956                                 | Achieved          |             | 100                                   |
| 18170        | 18335           | 206.00103 | 205.47886    | 205.47886    | 100          | 0.00%               | 0.00%         | 163                     | 141                     | 163                     | 165                                      | Achieved          |             | 100                                   |
| 1818         |                 |           |              |              |              |                     |               |                         |                         |                         |  |                   |             |                                       |



Birralee Main Road (A1701) – Counter Direction (CD)

Stopping Sight Distance

Car Driver Eye Height 1.10m to 0.2m Object Height

Continuous Chainage from Link 08

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|-------------|---------------------------------------|
| 18462.211    | 18297.211       | 207.76003 | 205.36509    | 205.36509    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.7417                                 | Achieved          |             | 100                                   |
| 18452.211    | 18287.211       | 207.54392 | 205.3484     | 205.3484     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.26637                                | Achieved          |             | 100                                   |
| 18442.211    | 18277.211       | 207.25952 | 205.32147    | 205.32147    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.61709                                | Achieved          |             | 100                                   |
| 18432.211    | 18267.211       | 207.09262 | 205.31808    | 205.31808    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.83746                                | Achieved          |             | 100                                   |
| 18422.211    | 18257.211       | 206.93698 | 205.30511    | 205.30511    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93659                                | Achieved          |             | 100                                   |
| 18412.211    | 18247.211       | 206.79911 | 205.31302    | 205.31302    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93492                                | Achieved          |             | 100                                   |
| 18402.211    | 18237.211       | 206.66181 | 205.2992     | 205.2992     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.97128                                | Achieved          |             | 100                                   |
| 18392.211    | 18227.211       | 206.56231 | 205.26132    | 205.26132    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98619                                | Achieved          |             | 100                                   |
| 18382.211    | 18217.211       | 206.52333 | 205.23238    | 205.23238    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00016                                | Achieved          |             | 100                                   |
| 18372.211    | 18207.211       | 206.47949 | 205.20231    | 205.20231    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01409                                | Achieved          |             | 100                                   |
| 18362.211    | 18197.211       | 206.45018 | 205.18747    | 205.18747    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01611                                | Achieved          |             | 100                                   |
| 18352.211    | 18187.211       | 206.40801 | 205.15435    | 205.15435    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00894                                | Achieved          |             | 100                                   |
| 18342.211    | 18177.211       | 206.38393 | 205.1084     | 205.1084     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0013                                 | Achieved          |             | 100                                   |
| 18332.211    | 18167.211       | 206.35646 | 205.07677    | 205.07677    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 18322.211    | 18157.211       | 206.33497 | 205.06834    | 205.06834    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00438                                | Achieved          |             | 100                                   |
| 18312.211    | 18147.211       | 206.29682 | 205.03701    | 205.03701    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00434                                | Achieved          |             | 100                                   |
| 18302.211    | 18137.211       | 206.25786 | 205.00068    | 205.00068    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00431                                | Achieved          |             | 100                                   |
| 18292.211    | 18127.211       | 206.26306 | 204.9766     | 204.9766     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00428                                | Achieved          |             | 100                                   |
| 18282.211    | 18117.211       | 206.22423 | 204.9618     | 204.9618     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00426                                | Achieved          |             | 100                                   |
| 18272.211    | 18107.211       | 206.22296 | 204.9207     | 204.9207     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00424                                | Achieved          |             | 100                                   |
| 18262.211    | 18097.211       | 206.20476 | 204.87324    | 204.87324    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00423                                | Achieved          |             | 100                                   |
| 18252.211    | 18087.211       | 206.21102 | 204.81513    | 204.81513    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00422                                | Achieved          |             | 100                                   |
| 18242.211    | 18077.211       | 206.21373 | 204.74648    | 204.74648    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00422                                | Achieved          |             | 100                                   |
| 18232.211    | 18067.211       | 206.17478 | 204.69103    | 204.69103    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00422                                | Achieved          |             | 100                                   |
| 18222.211    | 18057.211       | 206.15609 | 204.63499    | 204.63499    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00423                                | Achieved          |             | 100                                   |
| 18212.211    | 18047.211       | 206.13197 | 204.59169    | 204.59169    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00424                                | Achieved          |             | 100                                   |
| 18202.211    | 18037.211       | 206.0828  | 204.54149    | 204.54149    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00426                                | Achieved          |             | 100                                   |
| 18192.211    | 18027.211       | 206.0789  | 204.46411    | 204.46411    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00428                                | Achieved          |             | 100                                   |
| 18182.211    | 18017.211       | 206.02616 | 204.40414    | 204.40414    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00431                                | Achieved          |             | 100                                   |
| 18172.211    | 18007.211       | 205.98997 | 204.3531     | 204.3531     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00435                                | Achieved          |             | 100                                   |
| 18162.211    | 17997.211       | 205.96828 | 204.27109    | 204.27109    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18152.211    | 17987.211       | 205.9258  | 204.16724    | 204.16724    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00443                                | Achieved          |             | 100                                   |
| 18142.211    | 17977.211       | 205.91567 | 204.08823    | 204.08823    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 18132.211    | 17967.211       | 205.88479 | 203.9989     | 203.9989     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 18122.211    | 17957.211       | 205.8719  | 203.92897    | 203.92897    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00128                                | Achieved          |             | 100                                   |
| 18112.211    | 17947.211       | 205.84335 | 203.84006    | 203.84006    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00128                                | Achieved          |             | 100                                   |
| 18102.211    | 17937.211       | 205.79619 | 203.76709    | 203.76709    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00128                                | Achieved          |             | 100                                   |
| 18092.211    | 17927.211       | 205.74439 | 203.67224    | 203.67224    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00128                                | Achieved          |             | 100                                   |
| 18082.211    | 17917.211       | 205.68225 | 203.61251    | 203.61251    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00127                                | Achieved          |             | 100                                   |
| 18072.211    | 17907.211       | 205.61586 | 203.57963    | 203.57963    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00127                                | Achieved          |             | 100                                   |
| 18062.211    | 17897.211       | 205.56281 | 203.51715    | 203.51715    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00127                                | Achieved          |             | 100                                   |
| 18052.211    | 17887.211       | 205.51382 | 203.44001    | 203.44001    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00127                                | Achieved          |             | 100                                   |
| 18042.211    | 17877.211       | 205.46808 | 203.38691    | 203.38691    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00127                                | Achieved          |             | 100                                   |
| 18032.211    | 17867.211       | 205.43027 | 203.35643    | 203.35643    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00127                                | Achieved          |             | 100                                   |
| 18022.211    | 17857.211       | 205.37996 | 203.28754    | 203.28754    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00127                                | Achieved          |             | 100                                   |
| 18012.211    | 17847.211       | 205.32795 | 203.17777    | 203.17777    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00127                                | Achieved          |             | 100                                   |
| 18002.211    | 17837.211       | 205.2132  | 203.11616    | 203.11616    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00127                                | Achieved          |             | 100                                   |
| 17992.211    | 17827.211       | 205.11917 | 203.03908    | 203.03908    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00128                                | Achieved          |             | 100                                   |
| 17982.211    | 17817.211       | 205.02862 | 202.96817    | 202.96817    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00128                                | Achieved          |             | 100                                   |
| 17972.211    | 17807.211       | 204.94079 | 202.91849    | 202.91849    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00128                                | Achieved          |             | 100                                   |
| 17962.211    | 17797.211       | 204.86765 | 202.87579    | 202.87579    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00128                                | Achieved          |             | 100                                   |
| 17952.211    | 17787.211       | 204.78262 | 202.82385    | 202.82385    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17942.211    | 17777.211       | 204.70576 | 202.76347    | 202.76347    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17932.211    | 17767.211       | 204.61742 | 202.71556    | 202.71556    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17922.211    | 17757.211       | 204.53874 | 202.69502    | 202.69502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17912.211    | 17747.211       | 204.49241 | 202.66348    | 202.66348    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17902.211    | 17737.211       | 204.45372 | 202.63229    | 202.63229    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17892.211    | 17727.211       | 204.37823 | 202.57961    | 202.57961    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17882.211    | 17717.211       | 204.30729 | 202.53861    | 202.53861    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17872.211    | 17707.211       | 204.28078 | 202.50217    | 202.50217    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17862.211    | 17697.211       | 204.23443 | 202.45335    | 202.45335    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17852.211    | 17687.211       | 204.13071 | 202.38003    | 202.38003    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17842.211    | 17677.211       | 204.04799 | 202.31461    | 202.31461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17832.211    | 17667.211       | 203.97919 | 202.2427     | 202.2427     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17822.211    | 17657.211       | 203.90165 | 202.19106    | 202.19106    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17812.211    | 17647.211       | 203.83857 | 202.14696    | 202.14696    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17802.211    | 17637.211       | 203.79237 | 202.09473    | 202.09473    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17792.211    | 17627.211       | 203.75237 | 202.04614    | 202.04614    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17782.211    | 17617.211       | 203.69762 | 202.00823    | 202.00823    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17772.211    | 17607.211       | 203.63744 | 201.96224    | 201.96224    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17762.211    | 17597.211       | 203.60709 | 201.91448    | 201.91448    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17752.211    | 17587.211       | 203.58441 | 201.86223    | 201.86223    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17742.211    | 17577.211       | 203.54009 | 201.80037    | 201.80037    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17732.211    | 17567.211       | 203.50574 | 201.71882    | 201.71882    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17722.211    | 17557.211       | 203.45999 | 201.6577     | 201.6577     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17712.211    | 17547.211       | 203.41988 | 201.59919    | 201.59919    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17702.211    | 17537.211       | 203.37919 | 201.54553    | 201.54553    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17692.211    | 17527.211       | 203.31669 | 201.48626    | 201.48626    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165                                      | Achieved          |             | 100                                   |
| 17682.211    | 17517.211       | 203.24858 | 201.44536    | 201.44536    |              |                     |               |                         |                        |                         |  |                   |             |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction  | SSD Speed Achieved EDD 2sec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------|---------------------------------------|
| 17252.211    | 17087.211       | 203.13476 | 202.54349    | 202.54349    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.48488                                | Achieved          |              | 100                                   |
| 17242.211    | 17077.211       | 203.34331 | 202.55454    | 202.55454    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92223                                | Achieved          |              | 100                                   |
| 17232.211    | 17067.211       | 203.54366 | 202.57551    | 202.57551    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.10668                                | Achieved          |              | 100                                   |
| 17222.211    | 17057.211       | 203.68359 | 202.59114    | 202.59114    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.10473                                | Achieved          |              | 100                                   |
| 17212.211    | 17047.211       | 203.70518 | 202.57334    | 202.57334    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.11002                                | Achieved          |              | 100                                   |
| 17202.211    | 17037.211       | 203.67805 | 202.50702    | 202.50702    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.10552                                | Achieved          |              | 100                                   |
| 17192.211    | 17027.211       | 203.64953 | 202.47512    | 202.47512    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08332                                | Achieved          |              | 100                                   |
| 17182.211    | 17017.211       | 203.56125 | 202.43957    | 202.43957    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04774                                | Achieved          |              | 100                                   |
| 17172.211    | 17007.211       | 203.52389 | 202.41906    | 202.41906    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02869                                | Achieved          |              | 100                                   |
| 17162.211    | 16997.211       | 203.48665 | 202.40893    | 202.40893    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02889                                | Achieved          |              | 100                                   |
| 17152.211    | 16987.211       | 203.46012 | 202.40299    | 202.40299    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02978                                | Achieved          |              | 100                                   |
| 17142.211    | 16977.211       | 203.43539 | 202.39318    | 202.39318    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02247                                | Achieved          |              | 100                                   |
| 17132.211    | 16967.211       | 203.46877 | 202.40594    | 202.40594    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01893                                | Achieved          |              | 100                                   |
| 17122.211    | 16957.211       | 203.46828 | 202.42834    | 202.42834    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01518                                | Achieved          |              | 100                                   |
| 17112.211    | 16947.211       | 203.47373 | 202.47806    | 202.47806    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01123                                | Achieved          |              | 100                                   |
| 17102.211    | 16937.211       | 203.46184 | 202.5332     | 202.5332     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00711                                | Achieved          |              | 100                                   |
| 17092.211    | 16927.211       | 203.44653 | 202.60668    | 202.60668    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00288                                | Achieved          |              | 100                                   |
| 17082.211    | 16917.211       | 203.44448 | 202.65954    | 202.65954    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 17072.211    | 16907.211       | 203.47141 | 202.73549    | 202.73549    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 17062.211    | 16897.211       | 203.47895 | 202.82074    | 202.82074    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 17052.211    | 16887.211       | 203.49202 | 202.96780    | 202.96780    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 17042.211    | 16877.211       | 203.4312  | 203.02818    | 203.02818    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 17032.211    | 16867.211       | 203.39502 | 203.14028    | 203.14028    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 17022.211    | 16857.211       | 203.3558  | 203.25209    | 203.25209    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 17012.211    | 16847.211       | 203.32919 | 203.3332     | 203.3332     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 17002.211    | 16837.211       | 203.31418 | 203.46613    | 203.46613    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16992.211    | 16827.211       | 203.30473 | 203.62303    | 203.62303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16982.211    | 16817.211       | 203.29438 | 203.74085    | 203.74085    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16972.211    | 16807.211       | 203.29653 | 203.89556    | 203.89556    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16962.211    | 16797.211       | 203.31312 | 204.07379    | 204.07379    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16952.211    | 16787.211       | 203.32253 | 204.22266    | 204.22266    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16942.211    | 16777.211       | 203.40527 | 204.35593    | 204.35593    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16932.211    | 16767.211       | 203.46352 | 204.52665    | 204.52665    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16922.211    | 16757.211       | 203.5382  | 204.68769    | 204.68769    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16912.211    | 16747.211       | 203.59683 | 204.82786    | 204.82786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16902.211    | 16737.211       | 203.68959 | 204.92367    | 204.92367    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16892.211    | 16727.211       | 203.81755 | 205.0217     | 205.0217     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16882.211    | 16717.211       | 203.89605 | 205.15456    | 205.15456    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99301                                | Achieved          |              | 100                                   |
| 16872.211    | 16707.211       | 203.97493 | 205.251      | 205.251      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91041                                | Achieved          |              | 100                                   |
| 16862.211    | 16697.211       | 204.10185 | 205.37973    | 205.37973    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.73245                                | Achieved          |              | 100                                   |
| 16852.211    | 16687.211       | 204.18177 | 205.54595    | 205.54595    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.45102                                | Achieved          |              | 100                                   |
| 16842.211    | 16677.211       | 204.29454 | 205.76074    | 205.76074    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.02148                                | Achieved          |              | 100                                   |
| 16832.211    | 16667.211       | 204.43333 | 205.96764    | 205.96764    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.41256                                | Achieved          |              | 100                                   |
| 16822.211    | 16657.211       | 204.58204 | 206.17425    | 206.17425    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.60672                                | Achieved          |              | 100                                   |
| 16812.211    | 16647.211       | 204.71051 | 206.4033     | 206.4033     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.85881                                | Achieved          |              | 100                                   |
| 16802.211    | 16637.211       | 204.82635 | 206.64412    | 206.64412    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.77511                                | Achieved          |              | 100                                   |
| 16792.211    | 16627.211       | 205.04806 | 206.84763    | 206.84763    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.09121                                | Achieved          |              | 100                                   |
| 16782.211    | 16617.211       | 205.18877 | 207.06429    | 207.06429    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.60598                                | Achieved          |              | 100                                   |
| 16772.211    | 16610.211       | 205.34886 | 207.20298    | 207.20298    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 156.47638                                | Released          | Inside Curve | 100                                   |
| 16762.211    | 16602.211       | 205.50846 | 207.35303    | 207.35303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 160                     | 154.44532                                | Released          | Inside Curve | 100                                   |
| 16752.211    | 16594.211       | 205.63441 | 207.50311    | 207.50311    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 158                     | 152.58217                                | Released          | Inside Curve | 100                                   |
| 16742.211    | 16587.211       | 205.77077 | 207.65286    | 207.65286    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 159.67723                                | Achieved          |              | 100                                   |
| 16732.211    | 16580.211       | 205.86152 | 208.10786    | 208.10786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.19773                                | Achieved          |              | 100                                   |
| 16722.211    | 16573.211       | 205.99993 | 208.37104    | 208.37104    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.91657                                | Achieved          |              | 100                                   |
| 16712.211    | 16567.211       | 206.10482 | 208.59867    | 208.59867    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 161.83144                                | Achieved          |              | 100                                   |
| 16702.211    | 16562.211       | 206.20484 | 208.81492    | 208.81492    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.77693                                | Achieved          |              | 100                                   |
| 16692.211    | 16557.211       | 206.36228 | 209.04546    | 209.04546    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.54332                                | Achieved          |              | 100                                   |
| 16682.211    | 16552.211       | 206.54468 | 209.26213    | 209.26213    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.11609                                | Achieved          |              | 100                                   |
| 16672.211    | 16547.211       | 206.76816 | 209.46323    | 209.46323    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.51421                                | Achieved          |              | 100                                   |
| 16662.211    | 16542.211       | 206.97303 | 209.60604    | 209.60604    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.77193                                | Achieved          |              | 100                                   |
| 16652.211    | 16537.211       | 207.19278 | 209.77998    | 209.77998    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.93022                                | Achieved          |              | 100                                   |
| 16642.211    | 16532.211       | 207.42287 | 209.9646     | 209.9646     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99253                                | Achieved          |              | 100                                   |
| 16632.211    | 16527.211       | 207.64532 | 210.1124     | 210.1124     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16622.211    | 16522.211       | 207.86008 | 210.28635    | 210.28635    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16612.211    | 16517.211       | 208.06334 | 210.45839    | 210.45839    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                   |
| 16602.211    | 16512.211       | 208.25303 | 210.57254    | 210.57254    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00005                                | Achieved          |              | 100                                   |
| 16592.211    | 16507.211       | 208.43893 | 210.68114    | 210.68114    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01697                                | Achieved          |              | 100                                   |
| 16582.211    | 16502.211       | 208.63745 | 210.78607    | 210.78607    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03273                                | Achieved          |              | 100                                   |
| 16572.211    | 16497.211       | 208.87368 | 210.85265    | 210.85265    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04637                                | Achieved          |              | 100                                   |
| 16562.211    | 16492.211       | 209.14253 | 210.94052    | 210.94052    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06024                                | Achieved          |              | 100                                   |
| 16552.211    | 16487.211       | 209.389   | 211.01304    | 211.01304    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.1178                                 | Achieved          |              | 100                                   |
| 16542.211    | 16482.211       | 209.60277 | 211.08001    | 211.08001    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.19358                                | Achieved          |              | 100                                   |
| 16532.211    | 16477.211       | 209.83246 | 211.12791    | 211.12791    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07655                                | Achieved          |              | 100                                   |
| 16522.211    | 16472.211       | 210.05434 | 211.19259    | 211.19259    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.90194                                | Achieved          |              | 100                                   |
| 16512.211    | 16467.211       | 210.25851 | 211.26321    | 211.26321    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.60272                                | Achieved          |              | 100                                   |
| 16502.211    | 16462.211       | 210.42146 | 211.34616    | 211.34616    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.19829                                | Achieved          |              | 100                                   |
| 16492.211    | 16457.211       | 210.58119 | 211.44168    | 211.44168    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.70473                                | Achieved          |              | 100                                   |
| 16482.211    | 16452.211       | 210.77693 | 211.52075    | 211.52075    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.32294                                | Achieved          |              | 100                                   |
| 16472.211    |                 |           |              |              |              |                     |               |                         |                        |                         |  |                   |              |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD 2sec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 16042.211    | 15964.211       | 208.09439 | 203.42027    | 203.42027    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 78.1915                                  | Not Achieved      | Vertical alignment | 60                                    |
| 16032.211    | 15888.211       | 207.87018 | 198.20586    | 198.20586    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 144.17286                                | Relieved          | Vertical alignment | 100                                   |
| 16022.211    | 15837.211       | 207.392   | 196.08448    | 196.08448    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.10092                                | Achieved          | Vertical alignment | 100                                   |
| 16012.211    | 15847.211       | 207.23077 | 195.43817    | 195.43817    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.04078                                | Achieved          | Vertical alignment | 100                                   |
| 16002.211    | 15837.211       | 206.76728 | 194.8464     | 194.8464     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.03412                                | Achieved          | Vertical alignment | 100                                   |
| 15992.211    | 15827.211       | 206.20077 | 194.25316    | 194.25316    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.02419                                | Achieved          | Vertical alignment | 100                                   |
| 15982.211    | 15817.211       | 205.56512 | 193.69416    | 193.69416    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.01456                                | Achieved          | Vertical alignment | 100                                   |
| 15972.211    | 15807.211       | 204.88299 | 193.14162    | 193.14162    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00737                                | Achieved          | Vertical alignment | 100                                   |
| 15962.211    | 15797.211       | 204.17924 | 192.56609    | 192.56609    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00074                                | Achieved          | Vertical alignment | 100                                   |
| 15952.211    | 15787.211       | 203.50803 | 192.23779    | 192.23779    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00072                                | Achieved          | Vertical alignment | 100                                   |
| 15942.211    | 15777.211       | 202.87459 | 191.88726    | 191.88726    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.0006                                 | Achieved          | Vertical alignment | 100                                   |
| 15932.211    | 15767.211       | 202.21841 | 191.53951    | 191.53951    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00049                                | Achieved          | Vertical alignment | 100                                   |
| 15922.211    | 15757.211       | 201.52772 | 191.21821    | 191.21821    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00039                                | Achieved          | Vertical alignment | 100                                   |
| 15912.211    | 15747.211       | 200.8451  | 190.89036    | 190.89036    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00029                                | Achieved          | Vertical alignment | 100                                   |
| 15902.211    | 15737.211       | 200.12931 | 190.58208    | 190.58208    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00047                                | Achieved          | Vertical alignment | 100                                   |
| 15892.211    | 15727.211       | 199.40487 | 190.32934    | 190.32934    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00049                                | Achieved          | Vertical alignment | 100                                   |
| 15882.211    | 15717.211       | 198.66681 | 190.1547     | 190.1547     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00045                                | Achieved          | Vertical alignment | 100                                   |
| 15872.211    | 15707.211       | 197.97823 | 189.98992    | 189.98992    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00005                                | Achieved          | Vertical alignment | 100                                   |
| 15862.211    | 15697.211       | 197.30645 | 189.81457    | 189.81457    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00078                                | Achieved          | Vertical alignment | 100                                   |
| 15852.211    | 15687.211       | 196.67023 | 189.61284    | 189.61284    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.34383                                | Achieved          | Vertical alignment | 100                                   |
| 15842.211    | 15677.211       | 196.04389 | 189.32779    | 189.32779    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00078                                | Achieved          | Vertical alignment | 100                                   |
| 15832.211    | 15667.211       | 195.43791 | 189.03004    | 189.03004    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.71218                                | Relieved          | Vertical alignment | 100                                   |
| 15822.211    | 15657.211       | 194.86833 | 188.7404     | 188.7404     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.41089                                | Achieved          | Vertical alignment | 100                                   |
| 15812.211    | 15647.211       | 194.3162  | 188.50211    | 188.50211    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.91354                                | Relieved          | Vertical alignment | 100                                   |
| 15802.211    | 15642.211       | 193.79107 | 188.36328    | 188.36328    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 160                     | 138.61645                                | Relieved          | Inside Curve       | 100                                   |
| 15792.211    | 15642.211       | 193.3664  | 188.36328    | 188.36328    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 150                     | 148.62788                                | Relieved          | Inside Curve       | 100                                   |
| 15782.211    | 15640.211       | 192.98215 | 188.30896    | 188.30896    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 140.53084                                | Relieved          | Inside Curve       | 100                                   |
| 15772.211    | 15640.211       | 192.61676 | 188.30896    | 188.30896    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 130.55438                                | Not Achieved      | Inside Curve       | 90                                    |
| 15762.211    | 15640.211       | 192.27157 | 188.30896    | 188.30896    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 120.58183                                | Not Achieved      | Inside Curve       | 90                                    |
| 15752.211    | 15638.211       | 191.9387  | 188.26321    | 188.26321    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 112.50817                                | Not Achieved      | Inside Curve       | 80                                    |
| 15742.211    | 15636.211       | 191.63111 | 188.21682    | 188.21682    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 106                     | 104.44963                                | Not Achieved      | Inside Curve       | 80                                    |
| 15732.211    | 15634.211       | 191.35086 | 188.1684     | 188.1684     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 96.41123                                 | Not Achieved      | Inside Curve       | 70                                    |
| 15722.211    | 15630.211       | 191.14028 | 188.07112    | 188.07112    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 90.30702                                 | Not Achieved      | Inside Curve       | 70                                    |
| 15712.211    | 15627.211       | 190.95287 | 187.92868    | 187.92868    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 89                      | 88.09236                                 | Not Achieved      | Inside Curve       | 70                                    |
| 15702.211    | 15621.211       | 190.80492 | 187.77163    | 187.77163    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 87.94627                                 | Not Achieved      | Inside Curve       | 70                                    |
| 15692.211    | 15590.211       | 190.62082 | 187.66763    | 187.66763    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 99.81829                                 | Not Achieved      | Inside Curve       | 80                                    |
| 15682.211    | 15532.211       | 190.38443 | 188.69245    | 188.69245    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 150                     | 148.08869                                | Relieved          | Vertical alignment | 100                                   |
| 15672.211    | 15532.211       | 190.03993 | 188.69245    | 188.69245    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 138.68943                                | Not Achieved      | Vertical alignment | 90                                    |
| 15662.211    | 15532.211       | 189.76884 | 188.69245    | 188.69245    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 129.23924                                | Not Achieved      | Vertical alignment | 90                                    |
| 15652.211    | 15532.211       | 189.52281 | 188.69245    | 188.69245    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 120                     | 119.60442                                | Not Achieved      | Vertical alignment | 90                                    |
| 15642.211    | 15534.211       | 189.26328 | 188.78786    | 188.78786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 107.80796                                | Not Achieved      | Vertical alignment | 80                                    |
| 15632.211    | 15534.211       | 189.01788 | 188.78786    | 188.78786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 97.90143                                 | Not Achieved      | Vertical alignment | 70                                    |
| 15622.211    | 15534.211       | 188.82868 | 188.78786    | 188.78786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 87.97407                                 | Not Achieved      | Vertical alignment | 70                                    |
| 15612.211    | 15534.211       | 188.67165 | 188.78786    | 188.78786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 78                                       | Not Achieved      | Vertical alignment | 60                                    |
| 15602.211    | 15534.211       | 188.53034 | 188.78786    | 188.78786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 68                      | 68                                       | Not Achieved      | Vertical alignment | 60                                    |
| 15592.211    | 15534.211       | 188.39786 | 188.78786    | 188.78786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 58                      | 58                                       | Not Achieved      | Vertical alignment | 50                                    |
| 15582.211    | 15534.211       | 188.27043 | 188.78786    | 188.78786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 48                      | 48                                       | Not Achieved      | Vertical alignment | 40                                    |
| 15572.211    | 15534.211       | 188.16706 | 188.78786    | 188.78786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 38                      | 38                                       | Not Achieved      | Vertical alignment | 40                                    |
| 15562.211    | 15528.211       | 188.30286 | 188.47735    | 188.47735    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 34                      | 34                                       | Not Achieved      | Vertical alignment | FALSE                                 |
| 15552.211    | 15534.211       | 189.63847 | 187.52233    | 187.52233    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 38                      | 38                                       | Not Achieved      | Vertical alignment | 40                                    |
| 15542.211    | 15537.211       | 189.84341 | 184.23888    | 184.23888    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.78111                                | Achieved          | Vertical alignment | 100                                   |
| 15532.211    | 15567.211       | 189.59245 | 184.26831    | 184.26831    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.78144                                | Achieved          | Vertical alignment | 100                                   |
| 15522.211    | 15557.211       | 189.99196 | 184.29671    | 184.29671    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.83881                                | Achieved          | Vertical alignment | 100                                   |
| 15512.211    | 15547.211       | 188.27333 | 184.26833    | 184.26833    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.00125                                | Achieved          | Vertical alignment | 100                                   |
| 15502.211    | 15537.211       | 187.53767 | 184.23022    | 184.23022    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.17497                                | Achieved          | Vertical alignment | 100                                   |
| 15492.211    | 15527.211       | 186.84688 | 184.23303    | 184.23303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.30725                                | Achieved          | Vertical alignment | 100                                   |
| 15482.211    | 15517.211       | 186.34798 | 184.19231    | 184.19231    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.23429                                | Achieved          | Vertical alignment | 100                                   |
| 15472.211    | 15507.211       | 186.00934 | 184.09022    | 184.09022    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.09811                                | Achieved          | Vertical alignment | 100                                   |
| 15462.211    | 15497.211       | 185.80869 | 184.00637    | 184.00637    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.97009                                | Achieved          | Vertical alignment | 100                                   |
| 15452.211    | 15487.211       | 185.67808 | 184.03747    | 184.03747    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.21212                                | Achieved          | Vertical alignment | 100                                   |
| 15442.211    | 15477.211       | 185.5698  | 184.21603    | 184.21603    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.75677                                | Achieved          | Vertical alignment | 100                                   |
| 15432.211    | 15467.211       | 185.50372 | 184.50044    | 184.50044    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.42611                                | Achieved          | Vertical alignment | 100                                   |
| 15422.211    | 15457.211       | 185.49326 | 184.91669    | 184.91669    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.2633                                 | Achieved          | Vertical alignment | 100                                   |
| 15412.211    | 15447.211       | 185.3856  | 185.3418     | 185.3418     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.21853                                | Achieved          | Vertical alignment | 100                                   |
| 15402.211    | 15437.211       | 185.24348 | 185.63311    | 185.63311    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.30903                                | Achieved          | Vertical alignment | 100                                   |
| 15392.211    | 15427.211       | 185.18661 | 185.73243    | 185.73243    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.52233                                | Achieved          | Vertical alignment | 100                                   |
| 15382.211    | 15417.211       | 185.14208 | 185.73       | 185.73       | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.77139                                | Achieved          | Vertical alignment | 100                                   |
| 15372.211    | 15407.211       | 185.13486 | 185.71098    | 185.71098    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.11601                                | Achieved          | Vertical alignment | 100                                   |
| 15362.211    | 15397.211       | 185.18386 | 185.66221    | 185.66221    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.52517                                | Achieved          | Vertical alignment | 100                                   |
| 15352.211    | 15387.211       | 185.12128 | 185.60745    | 185.60745    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.89293                                | Achieved          | Vertical alignment | 100                                   |
| 15342.211    | 15377.211       | 185.05869 | 185.61066    | 185.61066    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.21269                                | Achieved          | Vertical alignment | 100                                   |
| 15332.211    | 15367.211       | 185.12099 | 185.61966    | 185.61966    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 141.48674                                | Relieved          | Vertical alignment | 100                                   |
| 15322.211    | 15357.211       | 185.12198 | 185.63634    | 185.63634    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 126                     | 123.72297                                | Not Achieved      | Vertical alignment | 90                                    |
| 15312.211    | 15302.211       | 185.0471  | 185.68912    | 185.68912    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 109.8292                                 | Not Achieved      | Vertical alignment | 80                                    |
| 15302.211    | 15208.211       | 184.94081 | 185.71382    | 185.71382    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 93.93991                                 | Not Achieved      | Vertical alignment | 70                                    |
| 15292.211    | 15212.211       | 184.91323 | 185.72325    | 185.72325    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 80                      | 79.9912                                  | Not Achieved      | Vertical alignment | 60                                    |
| 15282.211    | 15212.211       | 185.01258 | 185.72325    |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 14832.211    | 14722.211       | 185.82505 | 184.24325    | 184.24325    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 109.84191                                | Not Achieved      | Vertical alignment | 80                                    |
| 14822.211    | 14720.211       | 185.85644 | 184.16177    | 184.16177    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 101.83504                                | Not Achieved      | Vertical alignment | 80                                    |
| 14812.211    | 14718.211       | 185.92217 | 184.07096    | 184.07096    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 93.82894                                 | Not Achieved      | Vertical alignment | 70                                    |
| 14802.211    | 14716.211       | 185.93832 | 183.98002    | 183.98002    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 86                      | 85.82399                                 | Not Achieved      | Vertical alignment | 70                                    |
| 14792.211    | 14714.211       | 185.92477 | 183.87796    | 183.87796    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 77.82076                                 | Not Achieved      | Vertical alignment | 60                                    |
| 14782.211    | 14710.211       | 185.91374 | 183.82122    | 183.82122    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 72                      | 71.81286                                 | Not Achieved      | Vertical alignment | 60                                    |
| 14772.211    | 14704.211       | 185.86201 | 183.75932    | 183.75932    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 68                      | 67.80889                                 | Not Achieved      | Vertical alignment | 60                                    |
| 14762.211    | 14597.211       | 185.82633 | 180.61064    | 180.61064    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.73276                                | Achieved          |                    | 100                                   |
| 14752.211    | 14597.211       | 185.77254 | 180.58667    | 180.58667    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.73231                                | Achieved          |                    | 100                                   |
| 14742.211    | 14597.211       | 185.76126 | 180.75736    | 180.75736    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.82229                                | Achieved          |                    | 100                                   |
| 14732.211    | 14567.211       | 185.47959 | 181.02345    | 181.02345    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.87449                                | Achieved          |                    | 100                                   |
| 14722.211    | 14597.211       | 185.43923 | 181.24811    | 181.24811    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91153                                | Achieved          |                    | 100                                   |
| 14712.211    | 14547.211       | 184.67355 | 181.42449    | 181.42449    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.94274                                | Achieved          |                    | 100                                   |
| 14702.211    | 14537.211       | 184.15256 | 181.59187    | 181.59187    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.965                                  | Achieved          |                    | 100                                   |
| 14692.211    | 14537.211       | 183.61961 | 181.68326    | 181.68326    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97995                                | Achieved          |                    | 100                                   |
| 14682.211    | 14517.211       | 183.17228 | 181.71926    | 181.71926    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98661                                | Achieved          |                    | 100                                   |
| 14672.211    | 14507.211       | 182.85976 | 181.75491    | 181.75491    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98706                                | Achieved          |                    | 100                                   |
| 14662.211    | 14497.211       | 182.60779 | 181.85665    | 181.85665    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98705                                | Achieved          |                    | 100                                   |
| 14652.211    | 14487.211       | 182.38476 | 181.93825    | 181.93825    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98709                                | Achieved          |                    | 100                                   |
| 14642.211    | 14477.211       | 182.15041 | 181.99579    | 181.99579    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98716                                | Achieved          |                    | 100                                   |
| 14632.211    | 14467.211       | 181.54019 | 181.97801    | 181.97801    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98721                                | Achieved          |                    | 100                                   |
| 14622.211    | 14457.211       | 181.73666 | 181.9424     | 181.9424     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98743                                | Achieved          |                    | 100                                   |
| 14612.211    | 14447.211       | 181.59984 | 181.92471    | 181.92471    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98761                                | Achieved          |                    | 100                                   |
| 14602.211    | 14437.211       | 181.54132 | 181.93201    | 181.93201    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9923                                 | Achieved          |                    | 100                                   |
| 14592.211    | 14427.211       | 181.47997 | 181.93336    | 181.93336    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9942                                 | Achieved          |                    | 100                                   |
| 14582.211    | 14417.211       | 181.53545 | 181.97631    | 181.97631    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9946                                 | Achieved          |                    | 100                                   |
| 14572.211    | 14407.211       | 181.78715 | 182.05047    | 182.05047    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00093                                | Achieved          |                    | 100                                   |
| 14562.211    | 14397.211       | 182.04996 | 182.14534    | 182.14534    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00093                                | Achieved          |                    | 100                                   |
| 14552.211    | 14387.211       | 182.23886 | 182.24228    | 182.24228    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00084                                | Achieved          |                    | 100                                   |
| 14542.211    | 14377.211       | 182.41771 | 182.38867    | 182.38867    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00252                                | Achieved          |                    | 100                                   |
| 14532.211    | 14367.211       | 182.54579 | 182.55178    | 182.55178    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00251                                | Achieved          |                    | 100                                   |
| 14522.211    | 14357.211       | 182.60659 | 182.68225    | 182.68225    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00251                                | Achieved          |                    | 100                                   |
| 14512.211    | 14347.211       | 182.63673 | 182.7908     | 182.7908     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9993                                 | Achieved          |                    | 100                                   |
| 14502.211    | 14337.211       | 182.70019 | 182.90239    | 182.90239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99909                                | Achieved          |                    | 100                                   |
| 14492.211    | 14327.211       | 182.80268 | 183.08813    | 183.08813    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99784                                | Achieved          |                    | 100                                   |
| 14482.211    | 14317.211       | 182.86394 | 183.29801    | 183.29801    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99478                                | Achieved          |                    | 100                                   |
| 14472.211    | 14307.211       | 182.89095 | 183.4791     | 183.4791     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99167                                | Achieved          |                    | 100                                   |
| 14462.211    | 14297.211       | 182.85994 | 183.66912    | 183.66912    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99373                                | Achieved          |                    | 100                                   |
| 14452.211    | 14287.211       | 182.82824 | 183.92425    | 183.92425    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9972                                 | Achieved          |                    | 100                                   |
| 14442.211    | 14277.211       | 182.82976 | 184.18045    | 184.18045    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99814                                | Achieved          |                    | 100                                   |
| 14432.211    | 14267.211       | 182.83747 | 184.39145    | 184.39145    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00165                                | Achieved          |                    | 100                                   |
| 14422.211    | 14257.211       | 182.86198 | 184.56936    | 184.56936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00482                                | Achieved          |                    | 100                                   |
| 14412.211    | 14247.211       | 182.90334 | 184.74862    | 184.74862    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00722                                | Achieved          |                    | 100                                   |
| 14402.211    | 14237.211       | 183.00304 | 184.8901     | 184.8901     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00952                                | Achieved          |                    | 100                                   |
| 14392.211    | 14227.211       | 183.0921  | 185.05113    | 185.05113    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01172                                | Achieved          |                    | 100                                   |
| 14382.211    | 14217.211       | 183.20946 | 185.29005    | 185.29005    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01381                                | Achieved          |                    | 100                                   |
| 14372.211    | 14207.211       | 183.37234 | 185.61122    | 185.61122    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01579                                | Achieved          |                    | 100                                   |
| 14362.211    | 14197.211       | 183.52422 | 185.97663    | 185.97663    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0383                                 | Achieved          |                    | 100                                   |
| 14352.211    | 14187.211       | 183.63873 | 186.35845    | 186.35845    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06191                                | Achieved          |                    | 100                                   |
| 14342.211    | 14177.211       | 183.73766 | 186.6826     | 186.6826     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08177                                | Achieved          |                    | 100                                   |
| 14332.211    | 14167.211       | 183.88946 | 186.97979    | 186.97979    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0931                                 | Achieved          |                    | 100                                   |
| 14322.211    | 14157.211       | 184.09562 | 187.21192    | 187.21192    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.09878                                | Achieved          |                    | 100                                   |
| 14312.211    | 14147.211       | 184.29041 | 187.32136    | 187.32136    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08089                                | Achieved          |                    | 100                                   |
| 14302.211    | 14137.211       | 184.47341 | 187.33294    | 187.33294    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06133                                | Achieved          |                    | 100                                   |
| 14292.211    | 14138.211       | 184.69712 | 187.33461    | 187.33461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 154.06965                                | Released          | Vertical alignment | 100                                   |
| 14282.211    | 14136.211       | 184.92249 | 187.33128    | 187.33128    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 146.0693                                 | Released          | Vertical alignment | 100                                   |
| 14272.211    | 14136.211       | 185.19931 | 187.33128    | 187.33128    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 136.07337                                | Not Achieved      | Vertical alignment | 90                                    |
| 14262.211    | 14134.211       | 185.38229 | 187.33576    | 187.33576    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 128.07716                                | Not Achieved      | Vertical alignment | 90                                    |
| 14252.211    | 14134.211       | 185.57909 | 187.33576    | 187.33576    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 119                     | 119.08222                                | Not Achieved      | Vertical alignment | 80                                    |
| 14242.211    | 14134.211       | 185.72518 | 187.33576    | 187.33576    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 108.09596                                | Not Achieved      | Vertical alignment | 80                                    |
| 14232.211    | 14136.211       | 185.86405 | 187.33128    | 187.33128    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 96.10959                                 | Not Achieved      | Vertical alignment | 70                                    |
| 14222.211    | 14134.211       | 186.03040 | 187.33576    | 187.33576    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 88.12133                                 | Not Achieved      | Vertical alignment | 70                                    |
| 14212.211    | 14124.211       | 186.3473  | 187.38772    | 187.38772    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 88.13425                                 | Not Achieved      | Vertical alignment | 70                                    |
| 14202.211    | 14078.211       | 186.63996 | 187.45968    | 187.45968    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 124.04389                                | Not Achieved      | Vertical alignment | 90                                    |
| 14192.211    | 14066.211       | 187.06616 | 187.57993    | 187.57993    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 126                     | 126.03283                                | Not Achieved      | Vertical alignment | 90                                    |
| 14182.211    | 14060.211       | 187.42891 | 187.28068    | 187.28068    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 122.05638                                | Not Achieved      | Vertical alignment | 90                                    |
| 14172.211    | 14056.211       | 187.73131 | 187.19745    | 187.19745    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 116.08182                                | Not Achieved      | Vertical alignment | 80                                    |
| 14162.211    | 14048.211       | 188.01689 | 187.06482    | 187.06482    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 114.10159                                | Not Achieved      | Vertical alignment | 80                                    |
| 14152.211    | 14038.211       | 188.19587 | 186.8842     | 186.8842     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 114.11297                                | Not Achieved      | Vertical alignment | 80                                    |
| 14142.211    | 13977.211       | 188.24446 | 186.73126    | 186.73126    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0705                                 | Achieved          |                    | 100                                   |
| 14132.211    | 13967.211       | 188.24937 | 186.56539    | 186.56539    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 119                     | 119.08222                                | Achieved          |                    | 100                                   |
| 14122.211    | 13957.211       | 188.28875 | 186.27805    | 186.27805    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97081                                | Achieved          |                    | 100                                   |
| 14112.211    | 13950.211       | 188.31626 | 185.99323    | 185.99323    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 161.29707                                | Released          | Inside Curve       | 100                                   |
| 14102.211    | 13948.211       | 188.34739 | 185.8966     | 185.8966     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 153.23226                                | Released          | Inside Curve       | 100                                   |
| 14092.211    | 13946.211       | 188.36394 | 185.79997    | 185.79997    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 145.21321                                | Released          | Inside Curve       | 100                                   |
| 14082.211    | 13944.211       | 188.36289 | 185.70128    | 185.70128    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 138                     | 137.18568                                | Not Achieved      | Inside Curve       | 90                                    |
| 14072.211    | 13942.211       | 188.32632 | 185.60034    | 185.60034    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 129.17545                                | Not Achieved      | Inside Curve       |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 13622.211    | 13437.211       | 185.02345 | 185.79064    | 185.79064    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 157.27636                                | Achieved          |                    | 100                                   |
| 13612.211    | 13447.211       | 185.23249 | 185.86078    | 185.86078    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 156.13957                                | Achieved          |                    | 100                                   |
| 13602.211    | 13437.211       | 185.44997 | 185.89183    | 185.89183    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 159.04993                                | Achieved          |                    | 100                                   |
| 13592.211    | 13427.211       | 185.65649 | 185.84332    | 185.84332    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 159.81432                                | Achieved          |                    | 100                                   |
| 13582.211    | 13417.211       | 185.85049 | 185.72279    | 185.72279    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.47821                                | Achieved          |                    | 100                                   |
| 13572.211    | 13407.211       | 186.03216 | 185.50678    | 185.50678    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 161.06354                                | Achieved          |                    | 100                                   |
| 13562.211    | 13412.211       | 186.10297 | 185.6234     | 185.6234     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 150                     | 147.10392                                | Released          | Vertical alignment | 100                                   |
| 13552.211    | 13416.211       | 186.05662 | 185.70561    | 185.70561    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 133.8961                                 | Not Achieved      | Vertical alignment | 90                                    |
| 13542.211    | 13418.211       | 185.94183 | 185.74013    | 185.74013    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 112.26484                                | Not Achieved      | Vertical alignment | 90                                    |
| 13532.211    | 13418.211       | 185.87761 | 185.74013    | 185.74013    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 112.46669                                | Not Achieved      | Vertical alignment | 80                                    |
| 13522.211    | 13418.211       | 185.80786 | 185.74013    | 185.74013    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 104                     | 102.52593                                | Not Achieved      | Vertical alignment | 80                                    |
| 13512.211    | 13412.211       | 185.84087 | 185.6234     | 185.6234     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 98.53984                                 | Not Achieved      | Vertical alignment | 80                                    |
| 13502.211    | 13404.211       | 186.04854 | 185.42603    | 185.42603    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 96.499                                   | Not Achieved      | Vertical alignment | 70                                    |
| 13492.211    | 13400.211       | 186.21042 | 185.29212    | 185.29212    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 90.80138                                 | Not Achieved      | Vertical alignment | 70                                    |
| 13482.211    | 13398.211       | 186.36926 | 185.21921    | 185.21921    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 83.36786                                 | Not Achieved      | Vertical alignment | 70                                    |
| 13472.211    | 13396.211       | 186.53084 | 185.14482    | 185.14482    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 76                      | 75.80489                                 | Not Achieved      | Vertical alignment | 60                                    |
| 13462.211    | 13392.211       | 186.64739 | 184.9914     | 184.9914     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 70                      | 70.0659                                  | Not Achieved      | Vertical alignment | 60                                    |
| 13452.211    | 13384.211       | 186.73035 | 184.67728    | 184.67728    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 68                      | 68.16453                                 | Not Achieved      | Vertical alignment | 60                                    |
| 13442.211    | 13372.211       | 186.78984 | 184.13592    | 184.13592    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 70                      | 70.20206                                 | Not Achieved      | Vertical alignment | 60                                    |
| 13432.211    | 13360.211       | 186.78025 | 183.43396    | 183.43396    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 72                      | 72.14798                                 | Not Achieved      | Vertical alignment | 60                                    |
| 13422.211    | 13347.211       | 186.78487 | 182.73947    | 182.73947    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 145                     | 164.31459                                | Achieved          |                    | 100                                   |
| 13412.211    | 13247.211       | 186.3234  | 182.41288    | 182.41288    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.3493                                 | Achieved          |                    | 100                                   |
| 13402.211    | 13237.211       | 186.23875 | 182.24633    | 182.24633    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.42729                                | Achieved          |                    | 100                                   |
| 13392.211    | 13227.211       | 185.8914  | 182.01595    | 182.01595    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.97798                                | Achieved          |                    | 100                                   |
| 13382.211    | 13217.211       | 185.49266 | 181.64734    | 181.64734    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 159.1262                                 | Achieved          |                    | 100                                   |
| 13372.211    | 13207.211       | 185.03592 | 181.19442    | 181.19442    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 157.31319                                | Achieved          |                    | 100                                   |
| 13362.211    | 13197.211       | 184.4322  | 180.72933    | 180.72933    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 155.7284                                 | Achieved          |                    | 100                                   |
| 13352.211    | 13187.211       | 183.86046 | 180.26667    | 180.26667    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 154.42298                                | Achieved          |                    | 100                                   |
| 13342.211    | 13177.211       | 183.47952 | 179.81304    | 179.81304    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 153.51933                                | Achieved          |                    | 100                                   |
| 13332.211    | 13167.211       | 183.29515 | 179.3495     | 179.3495     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 153.07784                                | Achieved          |                    | 100                                   |
| 13322.211    | 13157.211       | 183.32563 | 178.99667    | 178.99667    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 153.11016                                | Achieved          |                    | 100                                   |
| 13312.211    | 13147.211       | 183.43172 | 178.64205    | 178.64205    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 153.8392                                 | Achieved          |                    | 100                                   |
| 13302.211    | 13137.211       | 183.53365 | 178.23292    | 178.23292    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 154.44469                                | Achieved          |                    | 100                                   |
| 13292.211    | 13127.211       | 183.61534 | 178.08337    | 178.08337    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 154.91181                                | Achieved          |                    | 100                                   |
| 13282.211    | 13117.211       | 183.66569 | 177.89093    | 177.89093    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 157.5939                                 | Achieved          |                    | 100                                   |
| 13272.211    | 13107.211       | 183.63817 | 177.75148    | 177.75148    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 159.54136                                | Achieved          |                    | 100                                   |
| 13262.211    | 13097.211       | 183.54178 | 177.63548    | 177.63548    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 161.33999                                | Achieved          |                    | 100                                   |
| 13252.211    | 13087.211       | 183.40026 | 177.53985    | 177.53985    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.6653                                 | Achieved          |                    | 100                                   |
| 13242.211    | 13077.211       | 183.2314  | 177.44239    | 177.44239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.63069                                | Achieved          |                    | 100                                   |
| 13232.211    | 13067.211       | 183.03946 | 177.30475    | 177.30475    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.27561                                | Achieved          |                    | 100                                   |
| 13222.211    | 13057.211       | 182.76202 | 177.12934    | 177.12934    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.66638                                | Achieved          |                    | 100                                   |
| 13212.211    | 13047.211       | 182.31803 | 176.93987    | 176.93987    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.84484                                | Achieved          |                    | 100                                   |
| 13202.211    | 13037.211       | 181.86281 | 176.84832    | 176.84832    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.90609                                | Achieved          |                    | 100                                   |
| 13192.211    | 13027.211       | 181.39088 | 176.81742    | 176.81742    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93587                                | Achieved          |                    | 100                                   |
| 13182.211    | 13017.211       | 180.92522 | 176.83689    | 176.83689    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93969                                | Achieved          |                    | 100                                   |
| 13172.211    | 13007.211       | 180.46406 | 176.90271    | 176.90271    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00901                                | Achieved          |                    | 100                                   |
| 13162.211    | 12997.211       | 180.07281 | 176.97917    | 176.97917    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01576                                | Achieved          |                    | 100                                   |
| 13152.211    | 12987.211       | 179.71974 | 177.02347    | 177.02347    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01764                                | Achieved          |                    | 100                                   |
| 13142.211    | 12977.211       | 179.37432 | 177.06803    | 177.06803    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01713                                | Achieved          |                    | 100                                   |
| 13132.211    | 12967.211       | 179.08814 | 177.07296    | 177.07296    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01672                                | Achieved          |                    | 100                                   |
| 13122.211    | 12957.211       | 178.87989 | 177.0919     | 177.0919     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01641                                | Achieved          |                    | 100                                   |
| 13112.211    | 12947.211       | 178.71659 | 177.03114    | 177.03114    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0162                                 | Achieved          |                    | 100                                   |
| 13102.211    | 12937.211       | 178.58971 | 176.94797    | 176.94797    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0161                                 | Achieved          |                    | 100                                   |
| 13092.211    | 12927.211       | 178.48482 | 176.83429    | 176.83429    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01609                                | Achieved          |                    | 100                                   |
| 13082.211    | 12917.211       | 178.39731 | 176.71422    | 176.71422    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01619                                | Achieved          |                    | 100                                   |
| 13072.211    | 12907.211       | 178.28238 | 176.63938    | 176.63938    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01638                                | Achieved          |                    | 100                                   |
| 13062.211    | 12897.211       | 178.12016 | 176.57049    | 176.57049    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01668                                | Achieved          |                    | 100                                   |
| 13052.211    | 12887.211       | 177.97715 | 176.48225    | 176.48225    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01708                                | Achieved          |                    | 100                                   |
| 13042.211    | 12877.211       | 177.85079 | 176.39703    | 176.39703    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01759                                | Achieved          |                    | 100                                   |
| 13032.211    | 12867.211       | 177.74633 | 176.33661    | 176.33661    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01819                                | Achieved          |                    | 100                                   |
| 13022.211    | 12857.211       | 177.72095 | 176.27248    | 176.27248    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01928                                | Achieved          |                    | 100                                   |
| 13012.211    | 12847.211       | 177.76188 | 176.16397    | 176.16397    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01643                                | Achieved          |                    | 100                                   |
| 13002.211    | 12837.211       | 177.85079 | 176.02772    | 176.02772    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01718                                | Achieved          |                    | 100                                   |
| 12992.211    | 12827.211       | 177.89628 | 175.89886    | 175.89886    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02383                                | Achieved          |                    | 100                                   |
| 12982.211    | 12817.211       | 177.95002 | 175.75893    | 175.75893    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02367                                | Achieved          |                    | 100                                   |
| 12972.211    | 12807.211       | 177.97303 | 175.60532    | 175.60532    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02273                                | Achieved          |                    | 100                                   |
| 12962.211    | 12797.211       | 177.98673 | 175.43009    | 175.43009    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02197                                | Achieved          |                    | 100                                   |
| 12952.211    | 12787.211       | 177.97261 | 175.27079    | 175.27079    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02139                                | Achieved          |                    | 100                                   |
| 12942.211    | 12777.211       | 177.88513 | 175.12423    | 175.12423    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.021                                  | Achieved          |                    | 100                                   |
| 12932.211    | 12767.211       | 177.79945 | 174.98822    | 174.98822    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02079                                | Achieved          |                    | 100                                   |
| 12922.211    | 12757.211       | 177.78884 | 174.90427    | 174.90427    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02076                                | Achieved          |                    | 100                                   |
| 12912.211    | 12747.211       | 177.75237 | 174.81801    | 174.81801    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02231                                | Achieved          |                    | 100                                   |
| 12902.211    | 12737.211       | 177.70698 | 174.73816    | 174.73816    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02988                                | Achieved          |                    | 100                                   |
| 12892.211    | 12727.211       | 177.74283 | 174.63614    | 174.63614    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.03562                                | Achieved          |                    | 100                                   |
| 12882.211    | 12717.211       | 177.73514 | 174.43718    | 174.43718    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0691                                 | Achieved          |                    | 100                                   |
| 12872.211    | 12707.211       | 177.76906 | 174.10667    | 174.10667    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.07993                                | Achieved          |                    | 100                                   |
| 12862.211    | 12704.211       | 177.72002 | 173.99683    | 173.99683    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 158                     | 158.08438                                | Released          | Vertical alignment | 100                                   |
| 12852.211    | 12704.21        |           |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 12412.211    | 12232.211       | 173.04597 | 172.7207     | 172.7207     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 160                     | 160.01666                                | Released          | Vertical alignment | 100                                   |
| 12402.211    | 12237.211       | 173.21532 | 172.65091    | 172.65091    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.01668                                | Achieved          |                    | 100                                   |
| 12392.211    | 12237.211       | 173.38777 | 172.6114     | 172.6114     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.01687                                | Achieved          |                    | 100                                   |
| 12382.211    | 12237.211       | 173.54921 | 172.55207    | 172.55207    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.01714                                | Achieved          |                    | 100                                   |
| 12372.211    | 12207.211       | 173.72974 | 172.47686    | 172.47686    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.01714                                | Achieved          |                    | 100                                   |
| 12362.211    | 12197.211       | 173.90199 | 172.36436    | 172.36436    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00731                                | Achieved          |                    | 100                                   |
| 12352.211    | 12187.211       | 174.00417 | 172.19379    | 172.19379    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00523                                | Achieved          |                    | 100                                   |
| 12342.211    | 12177.211       | 173.96397 | 171.96864    | 171.96864    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00324                                | Achieved          |                    | 100                                   |
| 12332.211    | 12174.211       | 173.90745 | 171.89173    | 171.89173    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 130.00236                                | Released          | Vertical alignment | 100                                   |
| 12322.211    | 12172.211       | 173.87472 | 171.83814    | 171.83814    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 130.00238                                | Released          | Vertical alignment | 100                                   |
| 12312.211    | 12172.211       | 173.79433 | 171.83814    | 171.83814    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 140.00531                                | Not Achieved      | Vertical alignment | 90                                    |
| 12302.211    | 12170.211       | 173.73736 | 171.78235    | 171.78235    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 132.00304                                | Not Achieved      | Vertical alignment | 90                                    |
| 12292.211    | 12168.211       | 173.70353 | 171.72387    | 171.72387    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 124.00538                                | Not Achieved      | Vertical alignment | 90                                    |
| 12282.211    | 12164.211       | 173.69717 | 171.60744    | 171.60744    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 118                     | 118.00543                                | Not Achieved      | Vertical alignment | 80                                    |
| 12272.211    | 12160.211       | 173.672   | 171.48392    | 171.48392    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 112.00549                                | Not Achieved      | Vertical alignment | 80                                    |
| 12262.211    | 12154.211       | 173.63225 | 171.29391    | 171.29391    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 108                                      | Not Achieved      | Vertical alignment | 80                                    |
| 12252.211    | 12140.211       | 173.6207  | 170.86331    | 170.86331    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 112                                      | Not Achieved      | Vertical alignment | 80                                    |
| 12242.211    | 12077.211       | 173.56954 | 169.2204     | 169.2204     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00277                                | Achieved          |                    | 100                                   |
| 12232.211    | 12067.211       | 173.53446 | 169.02678    | 169.02678    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00276                                | Achieved          |                    | 100                                   |
| 12222.211    | 12057.211       | 173.49233 | 168.89378    | 168.89378    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00275                                | Achieved          |                    | 100                                   |
| 12212.211    | 12047.211       | 173.41803 | 168.79466    | 168.79466    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00275                                | Achieved          |                    | 100                                   |
| 12202.211    | 12037.211       | 173.33133 | 168.69823    | 168.69823    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00275                                | Achieved          |                    | 100                                   |
| 12192.211    | 12027.211       | 173.18936 | 168.60613    | 168.60613    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00274                                | Achieved          |                    | 100                                   |
| 12182.211    | 12017.211       | 173.99121 | 168.54208    | 168.54208    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00275                                | Achieved          |                    | 100                                   |
| 12172.211    | 12007.211       | 173.73814 | 168.47029    | 168.47029    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00275                                | Achieved          |                    | 100                                   |
| 12162.211    | 11997.211       | 172.44666 | 168.41208    | 168.41208    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00276                                | Achieved          |                    | 100                                   |
| 12152.211    | 11987.211       | 172.12923 | 168.3627     | 168.3627     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |                    | 100                                   |
| 12142.211    | 11977.211       | 171.81222 | 168.31141    | 168.31141    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99248                                | Achieved          |                    | 100                                   |
| 12132.211    | 11967.211       | 171.53493 | 168.30545    | 168.30545    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9954                                 | Achieved          |                    | 100                                   |
| 12122.211    | 11957.211       | 171.23224 | 168.3043     | 168.3043     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99323                                | Achieved          |                    | 100                                   |
| 12112.211    | 11947.211       | 170.94462 | 168.32364    | 168.32364    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99481                                | Achieved          |                    | 100                                   |
| 12102.211    | 11937.211       | 170.68654 | 168.40481    | 168.40481    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99237                                | Achieved          |                    | 100                                   |
| 12092.211    | 11927.211       | 170.45365 | 168.46919    | 168.46919    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99239                                | Achieved          |                    | 100                                   |
| 12082.211    | 11917.211       | 170.24007 | 168.49967    | 168.49967    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00026                                | Achieved          |                    | 100                                   |
| 12072.211    | 11907.211       | 170.02205 | 168.52545    | 168.52545    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99228                                | Achieved          |                    | 100                                   |
| 12062.211    | 11897.211       | 169.84077 | 168.56936    | 168.56936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99227                                | Achieved          |                    | 100                                   |
| 12052.211    | 11887.211       | 169.73956 | 168.62834    | 168.62834    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99228                                | Achieved          |                    | 100                                   |
| 12042.211    | 11877.211       | 169.65013 | 168.67334    | 168.67334    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99231                                | Achieved          |                    | 100                                   |
| 12032.211    | 11867.211       | 169.54912 | 168.65666    | 168.65666    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99233                                | Achieved          |                    | 100                                   |
| 12022.211    | 11857.211       | 169.46958 | 168.60188    | 168.60188    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9924                                 | Achieved          |                    | 100                                   |
| 12012.211    | 11847.211       | 169.41061 | 168.5354     | 168.5354     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99247                                | Achieved          |                    | 100                                   |
| 12002.211    | 11837.211       | 169.33178 | 168.468      | 168.468      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99262                                | Achieved          |                    | 100                                   |
| 11992.211    | 11827.211       | 169.29339 | 168.3988     | 168.3988     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99259                                | Achieved          |                    | 100                                   |
| 11982.211    | 11817.211       | 169.22987 | 168.33602    | 168.33602    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99288                                | Achieved          |                    | 100                                   |
| 11972.211    | 11807.211       | 169.20353 | 168.26818    | 168.26818    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00261                                | Achieved          |                    | 100                                   |
| 11962.211    | 11797.211       | 169.18007 | 168.20633    | 168.20633    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00026                                | Achieved          |                    | 100                                   |
| 11952.211    | 11787.211       | 169.20119 | 168.1439     | 168.1439     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |                    | 100                                   |
| 11942.211    | 11777.211       | 169.26233 | 168.09687    | 168.09687    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |                    | 100                                   |
| 11932.211    | 11767.211       | 169.34273 | 168.06995    | 168.06995    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |                    | 100                                   |
| 11922.211    | 11757.211       | 169.39083 | 168.04274    | 168.04274    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00258                                | Achieved          |                    | 100                                   |
| 11912.211    | 11747.211       | 169.40373 | 168.00575    | 168.00575    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00258                                | Achieved          |                    | 100                                   |
| 11902.211    | 11737.211       | 169.44493 | 167.92371    | 167.92371    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |                    | 100                                   |
| 11892.211    | 11727.211       | 169.49958 | 167.84926    | 167.84926    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |                    | 100                                   |
| 11882.211    | 11717.211       | 169.55486 | 167.73627    | 167.73627    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0026                                 | Achieved          |                    | 100                                   |
| 11872.211    | 11707.211       | 169.57247 | 167.6513     | 167.6513     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0026                                 | Achieved          |                    | 100                                   |
| 11862.211    | 11697.211       | 169.53461 | 167.55241    | 167.55241    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00261                                | Achieved          |                    | 100                                   |
| 11852.211    | 11687.211       | 169.46583 | 167.47238    | 167.47238    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0026                                 | Achieved          |                    | 100                                   |
| 11842.211    | 11677.211       | 169.40047 | 167.39002    | 167.39002    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00261                                | Achieved          |                    | 100                                   |
| 11832.211    | 11667.211       | 169.33409 | 167.29239    | 167.29239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11822.211    | 11657.211       | 169.26913 | 167.17626    | 167.17626    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11812.211    | 11647.211       | 169.19995 | 167.04438    | 167.04438    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11802.211    | 11637.211       | 169.13656 | 166.90024    | 166.90024    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11792.211    | 11627.211       | 169.07694 | 166.75189    | 166.75189    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11782.211    | 11617.211       | 169.01731 | 166.61111    | 166.61111    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11772.211    | 11607.211       | 168.96288 | 166.47239    | 166.47239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11762.211    | 11597.211       | 168.95336 | 166.34315    | 166.34315    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11752.211    | 11587.211       | 168.92997 | 166.23556    | 166.23556    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11742.211    | 11577.211       | 168.86666 | 166.13381    | 166.13381    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11732.211    | 11567.211       | 168.78574 | 166.02303    | 166.02303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11722.211    | 11557.211       | 168.70632 | 165.92139    | 165.92139    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11712.211    | 11547.211       | 168.60935 | 165.82239    | 165.82239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11702.211    | 11537.211       | 168.50909 | 165.71948    | 165.71948    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11692.211    | 11527.211       | 168.40924 | 165.60664    | 165.60664    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |                    | 100                                   |
| 11682.211    | 11517.211       | 168.33031 | 165.49136    | 165.49136    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                   |
| 11672.211    | 11507.211       | 168.2442  | 165.37117    | 165.37117    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99922                                | Achieved          |                    | 100                                   |
| 11662.211    | 11497.211       | 168.15337 | 165.25437    | 165.25437    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99621                                | Achieved          |                    | 100                                   |
| 11652.211    | 11487.211       | 168.10306 | 165.13652    | 165.13652    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99315                                | Achieved          |                    | 100                                   |
| 11642.211    | 11477.211       | 167.97556 |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec Rt (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 11102.211    | 11037.211       | 169.69551 | 174.14452    | 174.14452    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00693                                | Achieved          |                    | 100                                   |
| 11112.211    | 11027.211       | 169.93283 | 174.4643     | 174.4643     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00689                                | Achieved          |                    | 100                                   |
| 11182.211    | 11017.211       | 170.27369 | 174.79245    | 174.79245    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00687                                | Achieved          |                    | 100                                   |
| 11172.211    | 11007.211       | 170.61371 | 175.10738    | 175.10738    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00686                                | Achieved          |                    | 100                                   |
| 11162.211    | 10997.211       | 170.92928 | 175.46325    | 175.46325    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00687                                | Achieved          |                    | 100                                   |
| 11152.211    | 10987.211       | 171.2248  | 175.84265    | 175.84265    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00689                                | Achieved          |                    | 100                                   |
| 11142.211    | 10977.211       | 171.52005 | 176.23247    | 176.23247    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01517                                | Achieved          |                    | 100                                   |
| 11132.211    | 10967.211       | 171.81433 | 176.62673    | 176.62673    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02799                                | Achieved          |                    | 100                                   |
| 11122.211    | 10957.211       | 172.10824 | 177.00873    | 177.00873    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0397                                 | Achieved          |                    | 100                                   |
| 11112.211    | 10947.211       | 172.40931 | 177.40028    | 177.40028    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0499                                 | Achieved          |                    | 100                                   |
| 11102.211    | 10937.211       | 172.70759 | 177.78377    | 177.78377    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05205                                | Achieved          |                    | 100                                   |
| 11092.211    | 10927.211       | 173.00903 | 178.1272     | 178.1272     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.11362                                | Achieved          |                    | 100                                   |
| 11082.211    | 10917.211       | 173.62138 | 178.42307    | 178.42307    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.11494                                | Achieved          |                    | 100                                   |
| 11072.211    | 10907.211       | 173.9458  | 178.69375    | 178.69375    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08688                                | Achieved          |                    | 100                                   |
| 11062.211    | 10897.211       | 174.25186 | 178.93254    | 178.93254    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02114                                | Achieved          |                    | 100                                   |
| 11052.211    | 10887.211       | 174.55302 | 179.14471    | 179.14471    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91623                                | Achieved          |                    | 100                                   |
| 11042.211    | 10877.211       | 174.87899 | 179.31511    | 179.31511    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.76708                                | Achieved          |                    | 100                                   |
| 11032.211    | 10867.211       | 175.20386 | 179.43146    | 179.43146    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.59489                                | Achieved          |                    | 100                                   |
| 11022.211    | 10857.211       | 175.52848 | 179.60306    | 179.60306    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.43891                                | Achieved          |                    | 100                                   |
| 11012.211    | 10847.211       | 175.84609 | 179.45061    | 179.45061    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 164.30491                                | Released          | Vertical alignment | 100                                   |
| 11002.211    | 10837.211       | 176.15952 | 179.45061    | 179.45061    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 164.43483                                | Released          | Vertical alignment | 100                                   |
| 10992.211    | 10827.211       | 176.52243 | 179.44735    | 179.44735    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 143.30188                                | Released          | Vertical alignment | 100                                   |
| 10982.211    | 10817.211       | 176.93384 | 179.44326    | 179.44326    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 135.3794                                 | Not Achieved      | Vertical alignment | 90                                    |
| 10972.211    | 10807.211       | 177.33023 | 179.43798    | 179.43798    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 129.63707                                | Not Achieved      | Vertical alignment | 90                                    |
| 10962.211    | 10797.211       | 177.71781 | 179.42044    | 179.42044    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 123.71664                                | Not Achieved      | Vertical alignment | 90                                    |
| 10952.211    | 10787.211       | 178.10294 | 179.39431    | 179.39431    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 118                     | 117.82146                                | Not Achieved      | Vertical alignment | 80                                    |
| 10942.211    | 10777.211       | 178.49409 | 179.33296    | 179.33296    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 113.93843                                | Not Achieved      | Vertical alignment | 80                                    |
| 10932.211    | 10767.211       | 178.86513 | 179.17944    | 179.17944    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 118                     | 117.97901                                | Not Achieved      | Vertical alignment | 80                                    |
| 10922.211    | 10757.211       | 179.17693 | 179.00039    | 179.00039    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 118                     | 118.04798                                | Not Achieved      | Vertical alignment | 80                                    |
| 10912.211    | 10747.211       | 179.46199 | 178.76734    | 178.76734    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 120                     | 120.08819                                | Not Achieved      | Vertical alignment | 90                                    |
| 10902.211    | 10737.211       | 179.71679 | 177.72178    | 177.72178    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.42097                                | Achieved          |                    | 100                                   |
| 10892.211    | 10727.211       | 179.94503 | 177.52975    | 177.52975    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.40761                                | Achieved          |                    | 100                                   |
| 10882.211    | 10717.211       | 180.13385 | 177.29131    | 177.29131    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.38485                                | Achieved          |                    | 100                                   |
| 10872.211    | 10707.211       | 180.28211 | 177.04548    | 177.04548    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.35438                                | Achieved          |                    | 100                                   |
| 10862.211    | 10697.211       | 180.39569 | 176.72676    | 176.72676    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.46743                                | Achieved          |                    | 100                                   |
| 10852.211    | 10687.211       | 180.53332 | 176.62229    | 176.62229    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 158                     | 137.37363                                | Released          | Vertical alignment | 100                                   |
| 10842.211    | 10677.211       | 180.63798 | 176.46087    | 176.46087    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 151.66522                                | Released          | Vertical alignment | 100                                   |
| 10832.211    | 10668.211       | 180.72497 | 176.37592    | 176.37592    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 143.7542                                 | Released          | Vertical alignment | 100                                   |
| 10822.211    | 10658.211       | 180.76705 | 176.18919    | 176.18919    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 138                     | 137.82111                                | Not Achieved      | Vertical alignment | 90                                    |
| 10812.211    | 10648.211       | 180.64346 | 176.00874    | 176.00874    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 131.8723                                 | Not Achieved      | Vertical alignment | 90                                    |
| 10802.211    | 10638.211       | 179.86392 | 175.91669    | 175.91669    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 123.89719                                | Not Achieved      | Vertical alignment | 90                                    |
| 10792.211    | 10628.211       | 179.66734 | 175.72739    | 175.72739    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 118                     | 117.88148                                | Not Achieved      | Vertical alignment | 80                                    |
| 10782.211    | 10618.211       | 179.47339 | 175.44786    | 175.44786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 113.83555                                | Not Achieved      | Vertical alignment | 80                                    |
| 10772.211    | 10608.211       | 179.31785 | 174.90282    | 174.90282    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 115.7211                                 | Not Achieved      | Vertical alignment | 80                                    |
| 10762.211    | 10598.211       | 179.13779 | 174.59013    | 174.59013    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.38882                                | Achieved          |                    | 100                                   |
| 10752.211    | 10588.211       | 178.90243 | 174.33323    | 174.33323    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.35046                                | Achieved          |                    | 100                                   |
| 10742.211    | 10578.211       | 178.71336 | 174.18789    | 174.18789    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.30491                                | Achieved          |                    | 100                                   |
| 10732.211    | 10568.211       | 178.53387 | 174.11492    | 174.11492    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.63441                                | Achieved          |                    | 100                                   |
| 10722.211    | 10558.211       | 178.30909 | 174.12923    | 174.12923    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.69753                                | Achieved          |                    | 100                                   |
| 10712.211    | 10548.211       | 178.07686 | 174.23903    | 174.23903    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.73933                                | Achieved          |                    | 100                                   |
| 10702.211    | 10538.211       | 177.79241 | 174.45946    | 174.45946    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.86991                                | Achieved          |                    | 100                                   |
| 10692.211    | 10528.211       | 177.44034 | 174.76733    | 174.76733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.93008                                | Achieved          |                    | 100                                   |
| 10682.211    | 10518.211       | 176.99953 | 175.16316    | 175.16316    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97932                                | Achieved          |                    | 100                                   |
| 10672.211    | 10508.211       | 176.53272 | 175.66369    | 175.66369    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00269                                | Achieved          |                    | 100                                   |
| 10662.211    | 10498.211       | 176.07866 | 174.17156    | 174.17156    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00363                                | Achieved          |                    | 100                                   |
| 10652.211    | 10488.211       | 175.61309 | 174.57964    | 174.57964    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00361                                | Achieved          |                    | 100                                   |
| 10642.211    | 10478.211       | 175.14161 | 174.89539    | 174.89539    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00339                                | Achieved          |                    | 100                                   |
| 10632.211    | 10468.211       | 174.69131 | 174.04826    | 174.04826    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00766                                | Achieved          |                    | 100                                   |
| 10622.211    | 10458.211       | 174.24778 | 174.99271    | 174.99271    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01019                                | Achieved          |                    | 100                                   |
| 10612.211    | 10448.211       | 173.82431 | 174.95392    | 174.95392    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 158                     | 118.01816                                | Released          | Vertical alignment | 100                                   |
| 10602.211    | 10438.211       | 173.42463 | 174.97973    | 174.97973    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 146.01661                                | Released          | Vertical alignment | 100                                   |
| 10592.211    | 10428.211       | 173.03671 | 175.00071    | 175.00071    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134.01503                                | Not Achieved      | Vertical alignment | 90                                    |
| 10582.211    | 10418.211       | 172.64908 | 175.02674    | 175.02674    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 122.01343                                | Not Achieved      | Vertical alignment | 90                                    |
| 10572.211    | 10408.211       | 172.29389 | 175.02674    | 175.02674    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 112.01344                                | Not Achieved      | Vertical alignment | 80                                    |
| 10562.211    | 10398.211       | 171.91186 | 175.04134    | 175.04134    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 100.01182                                | Not Achieved      | Vertical alignment | 80                                    |
| 10552.211    | 10388.211       | 171.50729 | 175.04134    | 175.04134    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 90.01184                                 | Not Achieved      | Vertical alignment | 70                                    |
| 10542.211    | 10378.211       | 171.08443 | 175.036      | 175.036      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 78.01021                                 | Not Achieved      | Vertical alignment | 60                                    |
| 10532.211    | 10368.211       | 170.64339 | 175.04134    | 175.04134    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 70                      | 70.01168                                 | Not Achieved      | Vertical alignment | 60                                    |
| 10522.211    | 10358.211       | 170.18289 | 175.04134    | 175.04134    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 60                      | 60.01069                                 | Not Achieved      | Vertical alignment | 60                                    |
| 10512.211    | 10348.211       | 170.30205 | 175.00711    | 175.00711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 54                      | 54.01299                                 | Not Achieved      | Vertical alignment | 50                                    |
| 10502.211    | 10338.211       | 170.82551 | 174.97821    | 174.97821    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 34                      | 34.02002                                 | Not Achieved      | Vertical alignment | 50                                    |
| 10492.211    | 10328.211       | 170.28774 | 174.86491    | 174.86491    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 68                      | 68.02312                                 | Not Achieved      | Vertical alignment | 60                                    |
| 10482.211    | 10318.211       | 170.65173 | 174.78368    | 174.78368    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134.02263                                | Released          | Vertical alignment | 100                                   |
| 10472.211    | 10308.211       | 170.98899 | 174.6712     | 174.6712     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08236                                | Achieved          |                    | 100                                   |
| 10462.211    | 10298.211       | 170.94134 | 170.71628    | 170.71628    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08086                                | Achieved          |                    | 100                                   |
| 10452.211    | 10288.211       | 170.82995 | 170.27044    | 170.27044    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08766                                | Achieved          |                    | 100                                   |
| 10442.211    | 10278.211       | 170.69135 | 169.91335    | 169.91335    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162</                   |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 9982.211     | 9817.211        | 161.85321 | 161.10087    | 161.10087    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94699                                | Achieved          |                    | 100                                   |
| 9972.211     | 9807.211        | 161.85712 | 161.08837    | 161.08837    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.90309                                | Achieved          |                    | 100                                   |
| 9962.211     | 9797.211        | 161.84211 | 161.07432    | 161.07432    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.84882                                | Achieved          |                    | 100                                   |
| 9952.211     | 9787.211        | 161.83852 | 161.09569    | 161.09569    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.7818                                 | Achieved          |                    | 100                                   |
| 9942.211     | 9777.211        | 161.84203 | 161.14282    | 161.14282    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.69727                                | Achieved          |                    | 100                                   |
| 9932.211     | 9767.211        | 161.88383 | 161.23356    | 161.23356    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.59097                                | Achieved          |                    | 100                                   |
| 9922.211     | 9757.211        | 161.90893 | 161.32407    | 161.32407    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.48616                                | Achieved          |                    | 100                                   |
| 9912.211     | 9747.211        | 161.92355 | 161.39845    | 161.39845    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.38188                                | Achieved          |                    | 100                                   |
| 9902.211     | 9737.211        | 161.95111 | 161.48465    | 161.48465    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.2811                                 | Achieved          |                    | 100                                   |
| 8892.211     | 9727.211        | 161.97124 | 161.60438    | 161.60438    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.12741                                | Achieved          |                    | 100                                   |
| 8882.211     | 9717.211        | 161.95403 | 161.76449    | 161.76449    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.19409                                | Achieved          |                    | 100                                   |
| 8872.211     | 9707.211        | 161.88977 | 161.93543    | 161.93543    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.13331                                | Achieved          |                    | 100                                   |
| 8862.211     | 9697.211        | 162.01967 | 162.13283    | 162.13283    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.19168                                | Achieved          |                    | 100                                   |
| 8852.211     | 9687.211        | 162.01299 | 162.30003    | 162.30003    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.22178                                | Achieved          |                    | 100                                   |
| 8842.211     | 9677.211        | 161.98981 | 162.44701    | 162.44701    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.27614                                | Achieved          |                    | 100                                   |
| 8832.211     | 9667.211        | 162.00238 | 162.54221    | 162.54221    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.33996                                | Achieved          |                    | 100                                   |
| 8822.211     | 9657.211        | 162.00398 | 162.68933    | 162.68933    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.46842                                | Achieved          |                    | 100                                   |
| 8812.211     | 9647.211        | 161.99347 | 162.81081    | 162.81081    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.57802                                | Achieved          |                    | 100                                   |
| 8802.211     | 9637.211        | 161.98198 | 162.93602    | 162.93602    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.67473                                | Achieved          |                    | 100                                   |
| 9792.211     | 9627.211        | 161.98213 | 163.06247    | 163.06247    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.75774                                | Achieved          |                    | 100                                   |
| 9782.211     | 9617.211        | 162.01694 | 163.23027    | 163.23027    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.82991                                | Achieved          |                    | 100                                   |
| 9772.211     | 9607.211        | 162.08546 | 163.41293    | 163.41293    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.89961                                | Achieved          |                    | 100                                   |
| 9762.211     | 9597.211        | 162.17313 | 163.57593    | 163.57593    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93269                                | Achieved          |                    | 100                                   |
| 9752.211     | 9587.211        | 162.26833 | 163.73733    | 163.73733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.97002                                | Achieved          |                    | 100                                   |
| 9742.211     | 9577.211        | 162.34304 | 163.93232    | 163.93232    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99232                                | Achieved          |                    | 100                                   |
| 9732.211     | 9567.211        | 162.44084 | 164.17069    | 164.17069    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00333                                | Achieved          |                    | 100                                   |
| 9722.211     | 9557.211        | 162.5818  | 164.48178    | 164.48178    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00239                                | Achieved          |                    | 100                                   |
| 9712.211     | 9547.211        | 162.74601 | 164.83685    | 164.83685    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00237                                | Achieved          |                    | 100                                   |
| 9702.211     | 9537.211        | 162.94076 | 165.24265    | 165.24265    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00021                                | Achieved          |                    | 100                                   |
| 9692.211     | 9527.211        | 163.11493 | 165.7117     | 165.7117     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99913                                | Achieved          |                    | 100                                   |
| 9682.211     | 9517.211        | 163.28153 | 166.21394    | 166.21394    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99914                                | Achieved          |                    | 100                                   |
| 9672.211     | 9507.211        | 163.38749 | 166.7441     | 166.7441     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99913                                | Achieved          |                    | 100                                   |
| 9662.211     | 9497.211        | 163.52206 | 167.29739    | 167.29739    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99913                                | Achieved          |                    | 100                                   |
| 9652.211     | 9487.211        | 163.68432 | 167.81432    | 167.81432    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99913                                | Achieved          |                    | 100                                   |
| 9642.211     | 9477.211        | 163.77314 | 168.27577    | 168.27577    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99911                                | Achieved          |                    | 100                                   |
| 9632.211     | 9467.211        | 163.8988  | 168.69403    | 168.69403    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99911                                | Achieved          |                    | 100                                   |
| 9622.211     | 9457.211        | 164.03154 | 169.11026    | 169.11026    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9991                                 | Achieved          |                    | 100                                   |
| 9612.211     | 9447.211        | 164.2199  | 169.47064    | 169.47064    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99353                                | Achieved          |                    | 100                                   |
| 9602.211     | 9437.211        | 164.40066 | 169.73462    | 169.73462    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00024                                | Achieved          |                    | 100                                   |
| 9592.211     | 9427.211        | 164.5707  | 169.93872    | 169.93872    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0014                                 | Achieved          |                    | 100                                   |
| 9582.211     | 9417.211        | 164.73441 | 169.93332    | 169.93332    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 134.00144                                | Released          | Vertical alignment | 100                                   |
| 9572.211     | 9407.211        | 164.94271 | 169.8915     | 169.8915     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 142.00149                                | Released          | Vertical alignment | 100                                   |
| 9562.211     | 9400.211        | 165.21949 | 169.8915     | 169.8915     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 132.00153                                | Not Achieved      | Vertical alignment | 90                                    |
| 9552.211     | 9400.211        | 165.53922 | 169.8915     | 169.8915     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 122.00157                                | Not Achieved      | Vertical alignment | 80                                    |
| 9542.211     | 9400.211        | 165.93286 | 169.8915     | 169.8915     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 112.00239                                | Not Achieved      | Vertical alignment | 80                                    |
| 9532.211     | 9400.211        | 166.37235 | 169.8915     | 169.8915     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 102.00078                                | Not Achieved      | Vertical alignment | 80                                    |
| 9522.211     | 9400.211        | 166.86036 | 169.8915     | 169.8915     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 96.00072                                 | Not Achieved      | Vertical alignment | 70                                    |
| 9512.211     | 9400.211        | 167.37448 | 170.01788    | 170.01788    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 90.00269                                 | Not Achieved      | Vertical alignment | 70                                    |
| 9502.211     | 9400.211        | 167.92389 | 170.1061     | 170.1061     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 86                      | 86.00263                                 | Not Achieved      | Vertical alignment | 70                                    |
| 9492.211     | 9392.211        | 168.43985 | 170.47716    | 170.47716    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 100.00233                                | Not Achieved      | Vertical alignment | 80                                    |
| 9482.211     | 9382.211        | 168.95211 | 172.37205    | 172.37205    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00653                                | Achieved          |                    | 100                                   |
| 9472.211     | 9372.211        | 169.38627 | 172.78567    | 172.78567    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00667                                | Achieved          |                    | 100                                   |
| 9462.211     | 9362.211        | 169.80574 | 173.21633    | 173.21633    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00666                                | Achieved          |                    | 100                                   |
| 9452.211     | 9352.211        | 170.19791 | 173.62637    | 173.62637    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00677                                | Achieved          |                    | 100                                   |
| 9442.211     | 9342.211        | 170.52469 | 173.98202    | 173.98202    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00394                                | Achieved          |                    | 100                                   |
| 9432.211     | 9332.211        | 170.73737 | 174.31953    | 174.31953    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99901                                | Achieved          |                    | 100                                   |
| 9422.211     | 9322.211        | 170.91788 | 174.64781    | 174.64781    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99901                                | Achieved          |                    | 100                                   |
| 9412.211     | 9312.211        | 171.06249 | 174.94465    | 174.94465    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99901                                | Achieved          |                    | 100                                   |
| 9402.211     | 9302.211        | 171.21679 | 175.21492    | 175.21492    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99901                                | Achieved          |                    | 100                                   |
| 9392.211     | 9298.211        | 171.37716 | 174.92733    | 174.92733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 133.99901                                | Released          | Vertical alignment | 100                                   |
| 9382.211     | 9298.211        | 171.51768 | 174.92733    | 174.92733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 143.99901                                | Released          | Vertical alignment | 100                                   |
| 9372.211     | 9298.211        | 171.67626 | 174.92733    | 174.92733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 133.99901                                | Not Achieved      | Vertical alignment | 90                                    |
| 9362.211     | 9298.211        | 171.86457 | 174.92733    | 174.92733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 123.99901                                | Not Achieved      | Vertical alignment | 90                                    |
| 9352.211     | 9298.211        | 172.10223 | 174.92733    | 174.92733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 113.99902                                | Not Achieved      | Vertical alignment | 80                                    |
| 9342.211     | 9298.211        | 172.38723 | 174.92733    | 174.92733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 104                     | 103.99904                                | Not Achieved      | Vertical alignment | 80                                    |
| 9332.211     | 9298.211        | 172.71117 | 174.92733    | 174.92733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 94                                       | Not Achieved      | Vertical alignment | 70                                    |
| 9322.211     | 9298.211        | 173.07203 | 174.9365     | 174.9365     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 86                      | 86                                       | Not Achieved      | Vertical alignment | 70                                    |
| 9312.211     | 9298.211        | 173.48046 | 174.93865    | 174.93865    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 80                      | 80                                       | Not Achieved      | Vertical alignment | 60                                    |
| 9302.211     | 9298.211        | 173.89672 | 174.93978    | 174.93978    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 80                      | 80                                       | Not Achieved      | Vertical alignment | 60                                    |
| 9292.211     | 9190.211        | 174.32925 | 175.09474    | 175.09474    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 102                                      | Not Achieved      | Vertical alignment | 80                                    |
| 9282.211     | 9182.211        | 174.70656 | 175.04341    | 175.04341    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 130.00127                                | Released          | Vertical alignment | 100                                   |
| 9272.211     | 9107.211        | 175.05174 | 175.01235    | 175.01235    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9262.211     | 9097.211        | 175.3899  | 175.04338    | 175.04338    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9252.211     | 9087.211        | 175.66509 | 175.07449    | 175.07449    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9242.211     | 9077.211        | 175.79792 | 175.09073    | 175.09073    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9232.211     | 9067.211        | 175.83363 | 175.0686     | 175.0686     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9222.211     | 9057.211        | 175.89378 | 175.01436    | 175.01436    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9212.211     | 9047.211        | 175.93741 | 174.86749    | 174.86749    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9202.211     | 9040.211        | 175.9     |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 8772.211     | 8710.211        | 168.43912 | 168.15942    | 168.15942    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 62                      | 62.0305                                  | Not Achieved      | Vertical alignment | 50                                    |
| 8762.211     | 8694.211        | 169.63874 | 167.4674     | 167.4674     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 68                      | 68.2254                                  | Not Achieved      | Vertical alignment | 60                                    |
| 8752.211     | 8680.211        | 169.72172 | 166.73377    | 166.73377    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 72                      | 72.0206                                  | Not Achieved      | Vertical alignment | 60                                    |
| 8742.211     | 8577.211        | 169.73235 | 165.69432    | 165.69432    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0086                                 | Achieved          |                    | 100                                   |
| 8732.211     | 8567.211        | 169.67252 | 165.89025    | 165.89025    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00353                                | Achieved          |                    | 100                                   |
| 8722.211     | 8557.211        | 169.44508 | 166.07343    | 166.07343    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99829                                | Achieved          |                    | 100                                   |
| 8712.211     | 8547.211        | 168.1281  | 166.3107     | 166.3107     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99306                                | Achieved          |                    | 100                                   |
| 8702.211     | 8537.211        | 168.74492 | 166.56309    | 166.56309    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99281                                | Achieved          |                    | 100                                   |
| 8692.211     | 8527.211        | 168.229   | 166.80341    | 166.80341    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99291                                | Achieved          |                    | 100                                   |
| 8682.211     | 8517.211        | 168.7528  | 167.08687    | 167.08687    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99203                                | Achieved          |                    | 100                                   |
| 8672.211     | 8507.211        | 167.2838  | 167.42314    | 167.42314    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99706                                | Achieved          |                    | 100                                   |
| 8662.211     | 8497.211        | 166.81266 | 167.88647    | 167.88647    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00201                                | Achieved          |                    | 100                                   |
| 8652.211     | 8487.211        | 166.64339 | 168.42907    | 168.42907    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00201                                | Achieved          |                    | 100                                   |
| 8642.211     | 8477.211        | 166.4325  | 169.06712    | 169.06712    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00201                                | Achieved          |                    | 100                                   |
| 8632.211     | 8467.211        | 166.29175 | 169.78013    | 169.78013    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00201                                | Achieved          |                    | 100                                   |
| 8622.211     | 8457.211        | 166.18355 | 170.49909    | 170.49909    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99974                                | Achieved          |                    | 100                                   |
| 8612.211     | 8447.211        | 166.15904 | 171.11701    | 171.11701    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99672                                | Achieved          |                    | 100                                   |
| 8602.211     | 8437.211        | 166.24052 | 171.59759    | 171.59759    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99364                                | Achieved          |                    | 100                                   |
| 8592.211     | 8427.211        | 166.37066 | 171.92809    | 171.92809    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98843                                | Achieved          |                    | 100                                   |
| 8582.211     | 8417.211        | 166.5072  | 172.18261    | 172.18261    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98939                                | Achieved          |                    | 100                                   |
| 8572.211     | 8407.211        | 166.65091 | 172.45938    | 172.45938    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99222                                | Achieved          | Vertical alignment | 100                                   |
| 8562.211     | 8414.211        | 166.88091 | 172.25219    | 172.25219    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 148                     | 147.98364                                | Not Achieved      | Vertical alignment | 100                                   |
| 8552.211     | 8416.211        | 167.0797  | 172.2038     | 172.2038     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 135.9864                                 | Not Achieved      | Vertical alignment | 90                                    |
| 8542.211     | 8418.211        | 167.34161 | 172.15942    | 172.15942    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 123.9847                                 | Not Achieved      | Vertical alignment | 90                                    |
| 8532.211     | 8418.211        | 167.58457 | 172.15942    | 172.15942    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 113.9848                                 | Not Achieved      | Vertical alignment | 80                                    |
| 8522.211     | 8422.211        | 167.84032 | 172.06125    | 172.06125    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 99.9887                                  | Not Achieved      | Vertical alignment | 80                                    |
| 8512.211     | 8422.211        | 168.14476 | 172.06125    | 172.06125    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 89.9889                                  | Not Achieved      | Vertical alignment | 70                                    |
| 8502.211     | 8424.211        | 168.53301 | 172.01005    | 172.01005    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 77.9873                                  | Not Achieved      | Vertical alignment | 60                                    |
| 8492.211     | 8422.211        | 169.03199 | 172.06125    | 172.06125    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 70                      | 69.9894                                  | Not Achieved      | Vertical alignment | 60                                    |
| 8482.211     | 8418.211        | 169.63553 | 172.15942    | 172.15942    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 64                      | 63.98664                                 | Not Achieved      | Vertical alignment | 60                                    |
| 8472.211     | 8402.211        | 170.31902 | 172.93102    | 172.93102    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 70                      | 69.9867                                  | Not Achieved      | Vertical alignment | 60                                    |
| 8462.211     | 8392.211        | 171.04314 | 173.42797    | 173.42797    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 109.9781                                 | Not Achieved      | Vertical alignment | 80                                    |
| 8452.211     | 8382.211        | 171.72295 | 173.6179     | 173.6179     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 123.9764                                 | Not Achieved      | Vertical alignment | 90                                    |
| 8442.211     | 8404.211        | 172.27872 | 173.82892    | 173.82892    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 148                     | 147.9832                                 | Not Achieved      | Vertical alignment | 100                                   |
| 8432.211     | 8267.211        | 172.6776  | 173.89906    | 173.89906    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98232                                | Achieved          |                    | 100                                   |
| 8422.211     | 8257.211        | 172.96125 | 173.93616    | 173.93616    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9835                                 | Achieved          |                    | 100                                   |
| 8412.211     | 8247.211        | 173.19838 | 174.0005     | 174.0005     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98394                                | Achieved          |                    | 100                                   |
| 8402.211     | 8237.211        | 173.43102 | 174.04965    | 174.04965    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98614                                | Achieved          |                    | 100                                   |
| 8392.211     | 8227.211        | 173.65145 | 174.09614    | 174.09614    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98638                                | Achieved          |                    | 100                                   |
| 8382.211     | 8217.211        | 173.84451 | 174.14887    | 174.14887    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98667                                | Achieved          |                    | 100                                   |
| 8372.211     | 8207.211        | 174.03389 | 174.18867    | 174.18867    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99148                                | Achieved          |                    | 100                                   |
| 8362.211     | 8197.211        | 174.23979 | 174.23979    | 174.23979    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99949                                | Achieved          |                    | 100                                   |
| 8352.211     | 8187.211        | 174.32797 | 174.26203    | 174.26203    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00292                                | Achieved          |                    | 100                                   |
| 8342.211     | 8177.211        | 174.41541 | 174.29034    | 174.29034    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0029                                 | Achieved          |                    | 100                                   |
| 8332.211     | 8167.211        | 174.48243 | 174.34374    | 174.34374    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00289                                | Achieved          |                    | 100                                   |
| 8322.211     | 8157.211        | 174.55992 | 174.39516    | 174.39516    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00288                                | Achieved          |                    | 100                                   |
| 8312.211     | 8147.211        | 174.63225 | 174.43004    | 174.43004    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00287                                | Achieved          |                    | 100                                   |
| 8302.211     | 8137.211        | 174.7142  | 174.48861    | 174.48861    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00287                                | Achieved          |                    | 100                                   |
| 8292.211     | 8127.211        | 174.79078 | 174.57002    | 174.57002    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00286                                | Achieved          |                    | 100                                   |
| 8282.211     | 8117.211        | 174.74659 | 174.63698    | 174.63698    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00286                                | Achieved          |                    | 100                                   |
| 8272.211     | 8107.211        | 174.78216 | 174.64027    | 174.64027    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00286                                | Achieved          |                    | 100                                   |
| 8262.211     | 8097.211        | 174.81358 | 174.63909    | 174.63909    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.004                                  | Achieved          |                    | 100                                   |
| 8252.211     | 8087.211        | 174.87005 | 174.63356    | 174.63356    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00774                                | Achieved          |                    | 100                                   |
| 8242.211     | 8077.211        | 174.9275  | 174.59591    | 174.59591    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01066                                | Achieved          |                    | 100                                   |
| 8232.211     | 8067.211        | 174.97062 | 174.59125    | 174.59125    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01053                                | Achieved          |                    | 100                                   |
| 8222.211     | 8057.211        | 175.02441 | 174.55706    | 174.55706    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01047                                | Achieved          |                    | 100                                   |
| 8212.211     | 8047.211        | 175.06676 | 174.48103    | 174.48103    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01042                                | Achieved          |                    | 100                                   |
| 8202.211     | 8037.211        | 175.11637 | 174.39659    | 174.39659    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00918                                | Achieved          |                    | 100                                   |
| 8192.211     | 8027.211        | 175.17132 | 174.23897    | 174.23897    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 160                     | 165.00746                                | Not Achieved      | Vertical alignment | 50                                    |
| 8182.211     | 8020.211        | 175.17842 | 174.19442    | 174.19442    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 132.00747                                | Not Achieved      | Vertical alignment | 100                                   |
| 8172.211     | 8030.211        | 175.21482 | 174.19442    | 174.19442    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 142.00749                                | Not Achieved      | Vertical alignment | 100                                   |
| 8162.211     | 8030.211        | 175.27177 | 174.19442    | 174.19442    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 132.00731                                | Not Achieved      | Vertical alignment | 90                                    |
| 8152.211     | 8028.211        | 175.31403 | 174.13055    | 174.13055    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 124.00734                                | Not Achieved      | Vertical alignment | 90                                    |
| 8142.211     | 8026.211        | 175.35224 | 174.06492    | 174.06492    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 116.00737                                | Not Achieved      | Vertical alignment | 80                                    |
| 8132.211     | 8024.211        | 175.43127 | 173.99363    | 173.99363    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 108.00761                                | Not Achieved      | Vertical alignment | 80                                    |
| 8122.211     | 8022.211        | 175.5091  | 173.91331    | 173.91331    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 100.00766                                | Not Achieved      | Vertical alignment | 80                                    |
| 8112.211     | 8020.211        | 175.54243 | 173.83443    | 173.83443    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 92.00773                                 | Not Achieved      | Vertical alignment | 70                                    |
| 8102.211     | 8018.211        | 175.57399 | 173.74519    | 173.74519    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 84.00782                                 | Not Achieved      | Vertical alignment | 70                                    |
| 8092.211     | 8016.211        | 175.54391 | 173.65259    | 173.65259    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 76                      | 76.00488                                 | Not Achieved      | Vertical alignment | 60                                    |
| 8082.211     | 8014.211        | 175.50727 | 173.55104    | 173.55104    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 68                      | 68.00114                                 | Not Achieved      | Vertical alignment | 60                                    |
| 8072.211     | 8010.211        | 175.45966 | 173.44651    | 173.44651    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 62                      | 62.00412                                 | Not Achieved      | Vertical alignment | 50                                    |
| 8062.211     | 8004.211        | 175.48094 | 173.29127    | 173.29127    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 58                      | 58.00412                                 | Not Achieved      | Vertical alignment | 50                                    |
| 8052.211     | 7998.211        | 175.49651 | 173.10209    | 173.10209    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 54                      | 54.00412                                 | Not Achieved      | Vertical alignment | 50                                    |
| 8042.211     | 7988.211        | 175.51255 | 171.6832     | 171.6832     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 54                      | 54.00412                                 | Not Achieved      | Vertical alignment | 50                                    |
| 8032.211     | 7987.211        | 175.18997 | 164.15108    | 164.15108    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00929                                | Achieved          |                    | 100                                   |
| 8022.211     | 7937.211        | 174.81331 | 163.95051    | 163.95051    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00857                                | Achieved          |                    | 100                                   |
| 8012.211     | 7847.211        | 174.34604 | 163.85028    | 163.85028    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00781                                | Achieved          |                    | 100                                   |
| 8002.211     | 7837.211        | 173.7113  | 163.79586    | 163.79586    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00708                                | Achieved          |                    | 100</                                 |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec Rtc (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|--|
| 7362.211     | 7397.211        | 163.02076 | 165.26118    | 165.26118    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98453                                | Achieved          |                    | 100                                    |
| 7352.211     | 7387.211        | 163.08997 | 165.32023    | 165.32023    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.97976                                | Achieved          |                    | 100                                    |
| 7342.211     | 7377.211        | 163.15459 | 165.77982    | 165.77982    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.97944                                | Achieved          |                    | 100                                    |
| 7332.211     | 7367.211        | 163.22469 | 166.03744    | 166.03744    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.97977                                | Achieved          |                    | 100                                    |
| 7322.211     | 7357.211        | 163.32179 | 166.29526    | 166.29526    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9833                                 | Achieved          |                    | 100                                    |
| 7312.211     | 7347.211        | 163.4347  | 166.5571     | 166.5571     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98426                                | Achieved          |                    | 100                                    |
| 7302.211     | 7337.211        | 163.57639 | 166.89596    | 166.89596    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98347                                | Achieved          |                    | 100                                    |
| 7492.211     | 7327.211        | 163.72764 | 167.19656    | 167.19656    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98713                                | Achieved          |                    | 100                                    |
| 7482.211     | 7317.211        | 163.89159 | 167.51863    | 167.51863    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99076                                | Achieved          |                    | 100                                    |
| 7472.211     | 7307.211        | 164.07703 | 167.88381    | 167.88381    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99037                                | Achieved          |                    | 100                                    |
| 7462.211     | 7297.211        | 164.2007  | 168.22663    | 168.22663    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99196                                | Achieved          |                    | 100                                    |
| 7452.211     | 7287.211        | 164.37038 | 168.54023    | 168.54023    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99281                                | Achieved          |                    | 100                                    |
| 7442.211     | 7277.211        | 164.84771 | 168.84033    | 168.84033    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99288                                | Achieved          |                    | 100                                    |
| 7432.211     | 7267.211        | 165.12758 | 169.09592    | 169.09592    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99666                                | Achieved          |                    | 100                                    |
| 7422.211     | 7257.211        | 165.42669 | 169.30916    | 169.30916    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99672                                | Achieved          |                    | 100                                    |
| 7412.211     | 7247.211        | 165.72863 | 169.53261    | 169.53261    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99679                                | Achieved          |                    | 100                                    |
| 7402.211     | 7237.211        | 166.01823 | 169.80411    | 169.80411    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00019                                | Achieved          |                    | 100                                    |
| 7392.211     | 7227.211        | 166.29327 | 170.14661    | 170.14661    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00767                                | Achieved          |                    | 100                                    |
| 7382.211     | 7217.211        | 166.54493 | 170.5458     | 170.5458     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00839                                | Achieved          |                    | 100                                    |
| 7372.211     | 7207.211        | 166.81591 | 171.03835    | 171.03835    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00843                                | Achieved          |                    | 100                                    |
| 7362.211     | 7197.211        | 167.06646 | 171.62561    | 171.62561    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00905                                | Achieved          |                    | 100                                    |
| 7352.211     | 7187.211        | 167.33612 | 172.36088    | 172.36088    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00939                                | Achieved          |                    | 100                                    |
| 7342.211     | 7177.211        | 167.63928 | 172.76921    | 172.76921    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00939                                | Achieved          |                    | 100                                    |
| 7332.211     | 7167.211        | 167.93914 | 172.88435    | 172.88435    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00936                                | Achieved          |                    | 100                                    |
| 7322.211     | 7168.211        | 168.23235 | 172.88063    | 172.88063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134.00362                                | Released          | Vertical alignment | 100                                    |
| 7312.211     | 7168.211        | 168.59807 | 172.88063    | 172.88063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 144.00363                                | Released          | Vertical alignment | 100                                    |
| 7302.211     | 7168.211        | 168.95791 | 172.88063    | 172.88063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134.00363                                | Not Achieved      | Vertical alignment | 90                                     |
| 7292.211     | 7168.211        | 169.28668 | 172.88063    | 172.88063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 124.00367                                | Not Achieved      | Vertical alignment | 90                                     |
| 7282.211     | 7168.211        | 169.59211 | 172.88063    | 172.88063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 114.0037                                 | Not Achieved      | Vertical alignment | 80                                     |
| 7272.211     | 7168.211        | 169.87099 | 172.88063    | 172.88063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 104                     | 104                                      | Not Achieved      | Vertical alignment | 80                                     |
| 7262.211     | 7168.211        | 170.11981 | 172.88063    | 172.88063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 94                                       | Not Achieved      | Vertical alignment | 70                                     |
| 7252.211     | 7168.211        | 170.31765 | 172.88063    | 172.88063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 84                                       | Not Achieved      | Vertical alignment | 70                                     |
| 7242.211     | 7168.211        | 170.55661 | 172.88063    | 172.88063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 74                      | 74                                       | Not Achieved      | Vertical alignment | 60                                     |
| 7232.211     | 7168.211        | 170.86646 | 172.88063    | 172.88063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 64                      | 64                                       | Not Achieved      | Vertical alignment | 50                                     |
| 7222.211     | 7168.211        | 171.24293 | 172.88063    | 172.88063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 54                      | 54                                       | Not Achieved      | Vertical alignment | 50                                     |
| 7212.211     | 7168.211        | 171.67433 | 172.88846    | 172.88846    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 46                      | 46                                       | Not Achieved      | Vertical alignment | 40                                     |
| 7202.211     | 7158.211        | 172.25659 | 172.86142    | 172.86142    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 44                      | 44                                       | Not Achieved      | Vertical alignment | 40                                     |
| 7192.211     | 7027.211        | 172.94329 | 173.24334    | 173.24334    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.66171                                | Achieved          |                    | 100                                    |
| 7182.211     | 7017.211        | 173.50523 | 173.30236    | 173.30236    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.40342                                | Achieved          |                    | 100                                    |
| 7172.211     | 7007.211        | 173.75046 | 173.35139    | 173.35139    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.24472                                | Achieved          |                    | 100                                    |
| 7162.211     | 6997.211        | 173.7805  | 173.43554    | 173.43554    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.18392                                | Achieved          |                    | 100                                    |
| 7152.211     | 6987.211        | 173.722   | 173.50303    | 173.50303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.22712                                | Achieved          |                    | 100                                    |
| 7142.211     | 6977.211        | 173.67827 | 173.5797     | 173.5797     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.36623                                | Achieved          |                    | 100                                    |
| 7132.211     | 6967.211        | 173.63204 | 173.66248    | 173.66248    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.60551                                | Achieved          |                    | 100                                    |
| 7122.211     | 6957.211        | 173.57942 | 173.74539    | 173.74539    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.9438                                 | Achieved          |                    | 100                                    |
| 7112.211     | 6947.211        | 173.51626 | 173.79044    | 173.79044    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.33814                                | Achieved          |                    | 100                                    |
| 7102.211     | 6937.211        | 173.57092 | 173.80817    | 173.80817    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.74067                                | Achieved          |                    | 100                                    |
| 7092.211     | 6927.211        | 173.58959 | 173.8438     | 173.8438     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.09623                                | Achieved          |                    | 100                                    |
| 7082.211     | 6917.211        | 173.64507 | 173.87463    | 173.87463    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.3829                                 | Achieved          |                    | 100                                    |
| 7072.211     | 6907.211        | 173.71814 | 173.88563    | 173.88563    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.60932                                | Achieved          |                    | 100                                    |
| 7062.211     | 6897.211        | 173.81063 | 173.86516    | 173.86516    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.76942                                | Achieved          |                    | 100                                    |
| 7052.211     | 6887.211        | 173.93489 | 173.83736    | 173.83736    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.88626                                | Achieved          |                    | 100                                    |
| 7042.211     | 6877.211        | 174.05248 | 173.82128    | 173.82128    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.96614                                | Achieved          |                    | 100                                    |
| 7032.211     | 6867.211        | 174.14442 | 173.81284    | 173.81284    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00199                                | Achieved          |                    | 100                                    |
| 7022.211     | 6857.211        | 174.174   | 173.80056    | 173.80056    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00551                                | Achieved          |                    | 100                                    |
| 7012.211     | 6847.211        | 174.2298  | 173.79379    | 173.79379    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00548                                | Achieved          |                    | 100                                    |
| 7002.211     | 6837.211        | 174.2871  | 173.75643    | 173.75643    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00546                                | Achieved          |                    | 100                                    |
| 6992.211     | 6827.211        | 174.37366 | 173.72103    | 173.72103    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00543                                | Achieved          |                    | 100                                    |
| 6982.211     | 6817.211        | 174.47326 | 173.72369    | 173.72369    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00598                                | Achieved          |                    | 100                                    |
| 6972.211     | 6807.211        | 174.51164 | 173.7422     | 173.7422     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00787                                | Achieved          |                    | 100                                    |
| 6962.211     | 6797.211        | 174.60475 | 173.75633    | 173.75633    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00807                                | Achieved          |                    | 100                                    |
| 6952.211     | 6787.211        | 174.67921 | 173.74501    | 173.74501    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00817                                | Achieved          |                    | 100                                    |
| 6942.211     | 6777.211        | 174.69578 | 173.73514    | 173.73514    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00989                                | Achieved          |                    | 100                                    |
| 6932.211     | 6767.211        | 174.72765 | 173.73945    | 173.73945    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00863                                | Achieved          |                    | 100                                    |
| 6922.211     | 6757.211        | 174.75894 | 173.7486     | 173.7486     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02083                                | Achieved          |                    | 100                                    |
| 6912.211     | 6747.211        | 174.78283 | 173.75046    | 173.75046    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.03146                                | Achieved          |                    | 100                                    |
| 6902.211     | 6737.211        | 174.77851 | 173.75464    | 173.75464    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.04026                                | Achieved          |                    | 100                                    |
| 6892.211     | 6727.211        | 174.75201 | 173.73981    | 173.73981    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.04743                                | Achieved          |                    | 100                                    |
| 6882.211     | 6717.211        | 174.72795 | 173.7532     | 173.7532     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0539                                 | Achieved          |                    | 100                                    |
| 6872.211     | 6707.211        | 174.71839 | 173.80566    | 173.80566    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05708                                | Achieved          |                    | 100                                    |
| 6862.211     | 6697.211        | 174.70379 | 173.83382    | 173.83382    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05998                                | Achieved          |                    | 100                                    |
| 6852.211     | 6687.211        | 174.69917 | 173.89539    | 173.89539    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05633                                | Achieved          |                    | 100                                    |
| 6842.211     | 6677.211        | 174.68039 | 173.92932    | 173.92932    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05583                                | Achieved          |                    | 100                                    |
| 6832.211     | 6667.211        | 174.63196 | 173.93149    | 173.93149    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05332                                | Achieved          |                    | 100                                    |
| 6822.211     | 6657.211        | 174.62016 | 173.95603    | 173.95603    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05241                                | Achieved          |                    | 100                                    |
| 6812.211     | 6647.211        | 174.633   | 173.98788    | 173.98788    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05658                                | Achieved          |                    | 100                                    |
| 6802.211     | 6637.211        | 174.65066 | 174.02783    | 174.02783    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05941                                | Achieved          |                    | 100                                    |
| 6792.211     | 6627.211        | 174.63551 | 174.08783    | 174.08783    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05728                                | Achieved          |                    | 100                                    |
| 6782.211     | 6617.211        | 174.63818 | 174.13161    | 174.13161    | 100          |                     |               |                         |                        |                         |  |                   |                    |  |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 6332.211     | 6187.211        | 176.20292 | 174.47003    | 174.47003    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.93165                                | Achieved          |                    | 100                                   |
| 6342.211     | 6177.211        | 176.33507 | 174.50403    | 174.50403    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.89424                                | Achieved          |                    | 100                                   |
| 6332.211     | 6167.211        | 176.43446 | 174.52357    | 174.52357    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.91887                                | Achieved          |                    | 100                                   |
| 6322.211     | 6157.211        | 176.33964 | 174.53888    | 174.53888    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.91516                                | Achieved          |                    | 100                                   |
| 6312.211     | 6147.211        | 176.38854 | 174.4524     | 174.4524     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.86006                                | Achieved          |                    | 100                                   |
| 6302.211     | 6137.211        | 176.56435 | 174.25188    | 174.25188    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.78964                                | Achieved          |                    | 100                                   |
| 6292.211     | 6127.211        | 176.50982 | 174.03358    | 174.03358    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.60923                                | Achieved          |                    | 100                                   |
| 6282.211     | 6117.211        | 176.42864 | 173.78018    | 173.78018    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.32424                                | Achieved          |                    | 100                                   |
| 6272.211     | 6107.211        | 176.32994 | 173.57548    | 173.57548    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.95668                                | Achieved          |                    | 100                                   |
| 6262.211     | 6097.211        | 176.16093 | 173.48847    | 173.48847    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.64876                                | Achieved          |                    | 100                                   |
| 6252.211     | 6087.211        | 175.96176 | 173.31386    | 173.31386    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.35292                                | Achieved          |                    | 100                                   |
| 6242.211     | 6077.211        | 175.73855 | 173.2165     | 173.2165     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.14302                                | Achieved          |                    | 100                                   |
| 6232.211     | 6067.211        | 175.54475 | 173.12478    | 173.12478    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.0983                                 | Achieved          |                    | 100                                   |
| 6222.211     | 6057.211        | 175.41696 | 172.99221    | 172.99221    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.19317                                | Achieved          |                    | 100                                   |
| 6212.211     | 6047.211        | 175.32391 | 173.02181    | 173.02181    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.4127                                 | Achieved          |                    | 100                                   |
| 6202.211     | 6037.211        | 175.29876 | 173.06145    | 173.06145    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.74222                                | Achieved          |                    | 100                                   |
| 6192.211     | 6027.211        | 175.33664 | 173.07088    | 173.07088    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.16747                                | Achieved          |                    | 100                                   |
| 6182.211     | 6017.211        | 175.39593 | 173.10203    | 173.10203    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.67469                                | Achieved          |                    | 100                                   |
| 6172.211     | 6007.211        | 175.41082 | 173.14428    | 173.14428    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.23638                                | Achieved          |                    | 100                                   |
| 6162.211     | 5997.211        | 175.43853 | 173.20157    | 173.20157    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.66373                                | Achieved          |                    | 100                                   |
| 6152.211     | 5987.211        | 175.46161 | 173.21234    | 173.21234    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94847                                | Achieved          |                    | 100                                   |
| 6142.211     | 5977.211        | 175.2501  | 173.21079    | 173.21079    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.10107                                | Achieved          |                    | 100                                   |
| 6132.211     | 5967.211        | 175.04938 | 173.21714    | 173.21714    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.14076                                | Achieved          |                    | 100                                   |
| 6122.211     | 5957.211        | 174.80936 | 173.23523    | 173.23523    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.11713                                | Achieved          |                    | 100                                   |
| 6112.211     | 5947.211        | 174.56954 | 173.23554    | 173.23554    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.07253                                | Achieved          |                    | 100                                   |
| 6102.211     | 5937.211        | 174.40224 | 173.22225    | 173.22225    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.03197                                | Achieved          |                    | 100                                   |
| 6092.211     | 5927.211        | 174.27736 | 173.23132    | 173.23132    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00821                                | Achieved          |                    | 100                                   |
| 6082.211     | 5917.211        | 174.15223 | 173.29572    | 173.29572    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00408                                | Achieved          |                    | 100                                   |
| 6072.211     | 5907.211        | 174.07211 | 173.28981    | 173.28981    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00409                                | Achieved          |                    | 100                                   |
| 6062.211     | 5897.211        | 173.96273 | 173.34367    | 173.34367    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0041                                 | Achieved          |                    | 100                                   |
| 6052.211     | 5887.211        | 173.88057 | 173.42423    | 173.42423    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00412                                | Achieved          |                    | 100                                   |
| 6042.211     | 5877.211        | 173.94706 | 173.4855     | 173.4855     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00414                                | Achieved          |                    | 100                                   |
| 6032.211     | 5867.211        | 173.97002 | 173.53707    | 173.53707    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00416                                | Achieved          |                    | 100                                   |
| 6022.211     | 5857.211        | 173.9618  | 173.53914    | 173.53914    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00419                                | Achieved          |                    | 100                                   |
| 6012.211     | 5847.211        | 174.02384 | 173.4841     | 173.4841     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99143                                | Achieved          |                    | 100                                   |
| 6002.211     | 5837.211        | 174.08744 | 173.38691    | 173.38691    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98786                                | Achieved          |                    | 100                                   |
| 5992.211     | 5827.211        | 174.1007  | 173.27263    | 173.27263    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98761                                | Achieved          |                    | 100                                   |
| 5982.211     | 5817.211        | 174.11908 | 173.13734    | 173.13734    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9874                                 | Achieved          |                    | 100                                   |
| 5972.211     | 5808.211        | 174.12201 | 173.01134    | 173.01134    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 163.98724                                | Released          | Vertical alignment | 100                                   |
| 5962.211     | 5802.211        | 174.12731 | 172.94318    | 172.94318    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 160                     | 159.98716                                | Released          | Vertical alignment | 100                                   |
| 5952.211     | 5798.211        | 174.13118 | 172.88054    | 172.88054    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 153.98713                                | Released          | Vertical alignment | 100                                   |
| 5942.211     | 5792.211        | 174.13283 | 172.7732     | 172.7732     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 150                     | 149.98708                                | Released          | Vertical alignment | 100                                   |
| 5932.211     | 5788.211        | 174.12048 | 172.70262    | 172.70262    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 143.98709                                | Released          | Vertical alignment | 100                                   |
| 5922.211     | 5776.211        | 174.17991 | 172.46033    | 172.46033    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 145.98704                                | Released          | Vertical alignment | 100                                   |
| 5912.211     | 5747.211        | 174.19395 | 172.00649    | 172.00649    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9933                                 | Achieved          |                    | 100                                   |
| 5902.211     | 5737.211        | 174.2028  | 171.86644    | 171.86644    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99327                                | Achieved          |                    | 100                                   |
| 5892.211     | 5727.211        | 174.28202 | 171.71956    | 171.71956    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99261                                | Achieved          |                    | 100                                   |
| 5882.211     | 5717.211        | 174.34712 | 171.64933    | 171.64933    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99359                                | Achieved          |                    | 100                                   |
| 5872.211     | 5707.211        | 174.42001 | 171.56311    | 171.56311    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9936                                 | Achieved          |                    | 100                                   |
| 5862.211     | 5697.211        | 174.44358 | 171.52367    | 171.52367    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99605                                | Achieved          |                    | 100                                   |
| 5852.211     | 5687.211        | 174.41815 | 171.53213    | 171.53213    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99633                                | Achieved          |                    | 100                                   |
| 5842.211     | 5677.211        | 174.33698 | 171.52215    | 171.52215    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5832.211     | 5667.211        | 174.23057 | 171.5563     | 171.5563     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5822.211     | 5657.211        | 174.10944 | 171.60936    | 171.60936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5812.211     | 5647.211        | 173.96249 | 171.67965    | 171.67965    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5802.211     | 5637.211        | 173.84318 | 171.78607    | 171.78607    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5792.211     | 5627.211        | 173.6752  | 171.88038    | 171.88038    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5782.211     | 5617.211        | 173.4799  | 171.98869    | 171.98869    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5772.211     | 5607.211        | 173.21879 | 172.11879    | 172.11879    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5762.211     | 5597.211        | 173.10596 | 172.20162    | 172.20162    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00796                                | Achieved          |                    | 100                                   |
| 5752.211     | 5587.211        | 172.96831 | 172.26391    | 172.26391    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02644                                | Achieved          |                    | 100                                   |
| 5742.211     | 5577.211        | 172.84201 | 172.29651    | 172.29651    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.04388                                | Achieved          |                    | 100                                   |
| 5732.211     | 5567.211        | 172.68382 | 172.3049     | 172.3049     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05647                                | Achieved          |                    | 100                                   |
| 5722.211     | 5557.211        | 172.57616 | 172.28677    | 172.28677    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.06671                                | Achieved          |                    | 100                                   |
| 5712.211     | 5547.211        | 172.51089 | 172.24109    | 172.24109    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.07235                                | Achieved          |                    | 100                                   |
| 5702.211     | 5537.211        | 172.44533 | 172.15632    | 172.15632    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.07317                                | Achieved          |                    | 100                                   |
| 5692.211     | 5530.211        | 172.4253  | 172.04574    | 172.04574    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 162.07149                                | Released          | Vertical alignment | 100                                   |
| 5682.211     | 5530.211        | 172.42181 | 172.04574    | 172.04574    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 152.07363                                | Released          | Vertical alignment | 100                                   |
| 5672.211     | 5530.211        | 172.43748 | 172.04574    | 172.04574    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 142.07606                                | Released          | Vertical alignment | 100                                   |
| 5662.211     | 5528.211        | 172.4774  | 171.99718    | 171.99718    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134.07809                                | Not Achieved      | Vertical alignment | 90                                    |
| 5652.211     | 5528.211        | 172.5417  | 171.99718    | 171.99718    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 124.08163                                | Not Achieved      | Vertical alignment | 90                                    |
| 5642.211     | 5526.211        | 172.61899 | 171.94796    | 171.94796    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 116.0834                                 | Not Achieved      | Vertical alignment | 80                                    |
| 5632.211     | 5524.211        | 172.73487 | 171.89961    | 171.89961    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 108.09013                                | Not Achieved      | Vertical alignment | 80                                    |
| 5622.211     | 5520.211        | 172.82822 | 171.80524    | 171.80524    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 102.09443                                | Not Achieved      | Vertical alignment | 80                                    |
| 5612.211     | 5514.211        | 172.89728 | 171.68241    | 171.68241    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 98.09681                                 | Not Achieved      | Vertical alignment | 70                                    |
| 5602.211     | 5508.211        | 173.06285 | 171.51791    | 171.51791    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 94.10217                                 | Not Achieved      | Vertical alignment | 70                                    |
| 5592.211     | 5500.211        | 173.13683 | 171.24507    | 171.24507    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 92.09808                                 | Not Achieved      | Vertical alignment | 70                                    |
| 5582.211     | 5496.211        | 173.18283 | 171.08404    | 171.08404    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 86                      | 86.09123                                 | Not Achieved      | Vertical alignment | 70                                    |
| 5572.211     |                 |           |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 5132.211     | 5042.211        | 173.07263 | 178.26993    | 178.26993    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 90.14003                                 | Not Achieved      | Vertical alignment | 70                                    |
| 5132.211     | 4937.211        | 173.8188  | 179.82324    | 179.82324    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.36076                                | Achieved          |                    | 100                                   |
| 5112.211     | 4947.211        | 176.49269 | 180.0123     | 180.0123     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.38971                                | Achieved          |                    | 100                                   |
| 5102.211     | 4937.211        | 177.07551 | 180.18888    | 180.18888    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.46602                                | Achieved          |                    | 100                                   |
| 5092.211     | 4927.211        | 177.39615 | 180.3975     | 180.3975     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.58309                                | Achieved          |                    | 100                                   |
| 5082.211     | 4917.211        | 178.02335 | 180.64014    | 180.64014    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.72337                                | Achieved          |                    | 100                                   |
| 5072.211     | 4907.211        | 178.37751 | 180.94801    | 180.94801    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.83902                                | Achieved          |                    | 100                                   |
| 5062.211     | 4897.211        | 178.69344 | 181.24832    | 181.24832    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93844                                | Achieved          |                    | 100                                   |
| 5052.211     | 4887.211        | 178.92998 | 181.55931    | 181.55931    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01729                                | Achieved          |                    | 100                                   |
| 5042.211     | 4877.211        | 179.16993 | 181.99521    | 181.99521    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.06733                                | Achieved          |                    | 100                                   |
| 5032.211     | 4867.211        | 179.40295 | 182.43728    | 182.43728    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.09289                                | Achieved          |                    | 100                                   |
| 5022.211     | 4857.211        | 179.60429 | 182.90927    | 182.90927    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.09517                                | Achieved          |                    | 100                                   |
| 5012.211     | 4847.211        | 179.76804 | 183.42578    | 183.42578    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.08982                                | Achieved          |                    | 100                                   |
| 5002.211     | 4837.211        | 179.95996 | 184.00429    | 184.00429    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.07884                                | Achieved          |                    | 100                                   |
| 4992.211     | 4827.211        | 180.1281  | 184.62705    | 184.62705    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05935                                | Achieved          |                    | 100                                   |
| 4982.211     | 4817.211        | 180.306   | 185.30904    | 185.30904    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0332                                 | Achieved          |                    | 100                                   |
| 4972.211     | 4807.211        | 180.45354 | 186.06039    | 186.06039    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00647                                | Achieved          |                    | 100                                   |
| 4962.211     | 4797.211        | 180.63126 | 186.93445    | 186.93445    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00648                                | Achieved          |                    | 100                                   |
| 4952.211     | 4787.211        | 180.81523 | 187.98835    | 187.98835    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0065                                 | Achieved          |                    | 100                                   |
| 4942.211     | 4777.211        | 181.00075 | 189.16644    | 189.16644    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00653                                | Achieved          |                    | 100                                   |
| 4932.211     | 4767.211        | 181.18783 | 190.37793    | 190.37793    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00653                                | Achieved          |                    | 100                                   |
| 4922.211     | 4757.211        | 181.40926 | 191.6717     | 191.6717     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9955                                 | Achieved          |                    | 100                                   |
| 4912.211     | 4747.211        | 181.69374 | 192.93501    | 192.93501    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94237                                | Achieved          |                    | 100                                   |
| 4902.211     | 4737.211        | 181.99495 | 194.12133    | 194.12133    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.83196                                | Achieved          |                    | 100                                   |
| 4892.211     | 4727.211        | 182.31156 | 195.19799    | 195.19799    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.63305                                | Achieved          |                    | 100                                   |
| 4882.211     | 4717.211        | 182.68666 | 196.13791    | 196.13791    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.40354                                | Achieved          |                    | 100                                   |
| 4872.211     | 4707.211        | 183.11538 | 196.96575    | 196.96575    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.05699                                | Achieved          |                    | 100                                   |
| 4862.211     | 4697.211        | 183.56898 | 197.67489    | 197.67489    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.61852                                | Achieved          |                    | 100                                   |
| 4852.211     | 4687.211        | 184.06274 | 198.30195    | 198.30195    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.20359                                | Achieved          |                    | 100                                   |
| 4842.211     | 4677.211        | 184.61139 | 198.83415    | 198.83415    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.81564                                | Achieved          |                    | 100                                   |
| 4832.211     | 4678.211        | 185.21014 | 198.78444    | 198.78444    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 151.91506                                | Relaxed           | Vertical alignment | 100                                   |
| 4822.211     | 4682.211        | 185.863   | 198.58075    | 198.58075    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 138.13494                                | Not Achieved      | Vertical alignment | 90                                    |
| 4812.211     | 4684.211        | 186.37702 | 198.47059    | 198.47059    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 126.27307                                | Not Achieved      | Vertical alignment | 90                                    |
| 4802.211     | 4686.211        | 187.37885 | 198.35983    | 198.35983    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 114.41227                                | Not Achieved      | Vertical alignment | 80                                    |
| 4792.211     | 4686.211        | 188.33862 | 198.25983    | 198.25983    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 106                     | 104.49104                                | Not Achieved      | Vertical alignment | 80                                    |
| 4782.211     | 4684.211        | 189.46416 | 198.47059    | 198.47059    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 96.33017                                 | Not Achieved      | Vertical alignment | 70                                    |
| 4772.211     | 4680.211        | 190.63828 | 198.68444    | 198.68444    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 90.53821                                 | Not Achieved      | Vertical alignment | 70                                    |
| 4762.211     | 4674.211        | 191.9235  | 198.97568    | 198.97568    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 86.6142                                  | Not Achieved      | Vertical alignment | 70                                    |
| 4752.211     | 4666.211        | 193.21116 | 199.32968    | 199.32968    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 86                      | 84.731                                   | Not Achieved      | Vertical alignment | 70                                    |
| 4742.211     | 4660.211        | 194.43767 | 199.54411    | 199.54411    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 82                      | 81.00179                                 | Not Achieved      | Vertical alignment | 70                                    |
| 4732.211     | 4654.211        | 195.57834 | 199.7003     | 199.7003     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 77.23305                                 | Not Achieved      | Vertical alignment | 60                                    |
| 4722.211     | 4650.211        | 196.38399 | 199.7241     | 199.7241     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 72                      | 71.47399                                 | Not Achieved      | Vertical alignment | 60                                    |
| 4712.211     | 4646.211        | 197.46391 | 199.8245     | 199.8245     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 66                      | 65.64431                                 | Not Achieved      | Vertical alignment | 60                                    |
| 4702.211     | 4640.211        | 198.23301 | 199.84586    | 199.84586    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 62                      | 61.76337                                 | Not Achieved      | Vertical alignment | 60                                    |
| 4692.211     | 4634.211        | 199.30059 | 199.81189    | 199.81189    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 58                      | 57.81241                                 | Not Achieved      | Vertical alignment | 50                                    |
| 4682.211     | 4628.211        | 199.48079 | 199.72113    | 199.72113    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 54                      | 53.84004                                 | Not Achieved      | Vertical alignment | 50                                    |
| 4672.211     | 4614.211        | 199.96985 | 199.39322    | 199.39322    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 50                      | 51.82387                                 | Not Achieved      | Vertical alignment | 50                                    |
| 4662.211     | 4598.211        | 200.37971 | 198.81465    | 198.81465    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 64                      | 63.87247                                 | Not Achieved      | Vertical alignment | 60                                    |
| 4652.211     | 4487.211        | 200.64137 | 197.9828     | 197.9828     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.89007                                | Achieved          |                    | 100                                   |
| 4642.211     | 4477.211        | 200.74976 | 197.70202    | 197.70202    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.92365                                | Achieved          |                    | 100                                   |
| 4632.211     | 4467.211        | 200.8872  | 197.80974    | 197.80974    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94918                                | Achieved          |                    | 100                                   |
| 4622.211     | 4457.211        | 200.90224 | 197.89424    | 197.89424    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9683                                 | Achieved          |                    | 100                                   |
| 4612.211     | 4447.211        | 200.8322  | 197.97813    | 197.97813    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98227                                | Achieved          |                    | 100                                   |
| 4602.211     | 4437.211        | 199.87304 | 198.03374    | 198.03374    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99193                                | Achieved          |                    | 100                                   |
| 4592.211     | 4427.211        | 199.476   | 198.07279    | 198.07279    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00609                                | Achieved          |                    | 100                                   |
| 4582.211     | 4417.211        | 199.13126 | 198.10932    | 198.10932    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00816                                | Achieved          |                    | 100                                   |
| 4572.211     | 4407.211        | 198.87119 | 198.13063    | 198.13063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00806                                | Achieved          |                    | 100                                   |
| 4562.211     | 4397.211        | 198.55107 | 198.15681    | 198.15681    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00796                                | Achieved          |                    | 100                                   |
| 4552.211     | 4387.211        | 198.26677 | 198.16677    | 198.16677    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00788                                | Achieved          |                    | 100                                   |
| 4542.211     | 4377.211        | 198.40935 | 198.16378    | 198.16378    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00781                                | Achieved          |                    | 100                                   |
| 4532.211     | 4367.211        | 198.36446 | 198.18247    | 198.18247    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00776                                | Achieved          |                    | 100                                   |
| 4522.211     | 4357.211        | 198.32049 | 198.18765    | 198.18765    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00773                                | Achieved          |                    | 100                                   |
| 4512.211     | 4347.211        | 198.3761  | 198.22259    | 198.22259    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00772                                | Achieved          |                    | 100                                   |
| 4502.211     | 4337.211        | 198.40206 | 198.37741    | 198.37741    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00773                                | Achieved          |                    | 100                                   |
| 4492.211     | 4327.211        | 198.45462 | 198.56048    | 198.56048    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00783                                | Achieved          |                    | 100                                   |
| 4482.211     | 4317.211        | 198.54357 | 198.80125    | 198.80125    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00529                                | Achieved          |                    | 100                                   |
| 4472.211     | 4307.211        | 198.66059 | 199.11949    | 199.11949    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00336                                | Achieved          |                    | 100                                   |
| 4462.211     | 4297.211        | 198.73038 | 199.30031    | 199.30031    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00544                                | Achieved          |                    | 100                                   |
| 4452.211     | 4287.211        | 198.83862 | 199.8925     | 199.8925     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00553                                | Achieved          |                    | 100                                   |
| 4442.211     | 4277.211        | 198.90477 | 200.29315    | 200.29315    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00363                                | Achieved          |                    | 100                                   |
| 4432.211     | 4267.211        | 198.95674 | 200.7445     | 200.7445     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00374                                | Achieved          |                    | 100                                   |
| 4422.211     | 4257.211        | 199.09086 | 201.22008    | 201.22008    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9974                                 | Achieved          |                    | 100                                   |
| 4412.211     | 4247.211        | 199.02478 | 201.70938    | 201.70938    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9974                                 | Achieved          |                    | 100                                   |
| 4402.211     | 4237.211        | 199.04197 | 202.22297    | 202.22297    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9974                                 | Achieved          |                    | 100                                   |
| 4392.211     | 4227.211        | 199.06982 | 202.76427    | 202.76427    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99741                                | Achieved          |                    | 100                                   |
| 4382.211     | 4217.211        | 199.06331 | 203.32503    | 203.32503    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99741                                | Achieved          |                    | 100                                   |
| 4372.211     | 4207.211        | 199.07177 | 203.88507    | 203.88507    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99741                                | Achieved          |                    | 100                                   |
| 4362.211     | 4197.211        | 199.08856 | 204.40845    | 204.40845    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99742                                | Achieved          |                    | 100                                   |
| 4352.211     | 4187.211        | 19        |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 3922.211     | 3737.211        | 197.18622 | 195.5764     | 195.5764     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.02604                                | Achieved          |                    | 100                                   |
| 3912.211     | 3747.211        | 197.10074 | 195.61149    | 195.61149    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.01443                                | Achieved          |                    | 100                                   |
| 3902.211     | 3737.211        | 197.04069 | 195.63434    | 195.63434    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00211                                | Achieved          |                    | 100                                   |
| 3892.211     | 3727.211        | 196.98988 | 195.65246    | 195.65246    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00481                                | Achieved          |                    | 100                                   |
| 3882.211     | 3717.211        | 196.94729 | 195.68705    | 195.68705    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00302                                | Achieved          |                    | 100                                   |
| 3872.211     | 3707.211        | 196.93222 | 195.71979    | 195.71979    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00498                                | Achieved          |                    | 100                                   |
| 3862.211     | 3697.211        | 196.88401 | 195.71755    | 195.71755    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00494                                | Achieved          |                    | 100                                   |
| 3852.211     | 3687.211        | 196.80354 | 195.72141    | 195.72141    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00493                                | Achieved          |                    | 100                                   |
| 3842.211     | 3677.211        | 196.7392  | 195.74069    | 195.74069    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00489                                | Achieved          |                    | 100                                   |
| 3832.211     | 3667.211        | 196.70392 | 195.77449    | 195.77449    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00487                                | Achieved          |                    | 100                                   |
| 3822.211     | 3657.211        | 196.66913 | 195.78936    | 195.78936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00486                                | Achieved          |                    | 100                                   |
| 3812.211     | 3647.211        | 196.63143 | 195.80085    | 195.80085    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00486                                | Achieved          |                    | 100                                   |
| 3802.211     | 3637.211        | 196.60683 | 195.77623    | 195.77623    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00486                                | Achieved          |                    | 100                                   |
| 3792.211     | 3627.211        | 196.58302 | 195.73541    | 195.73541    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00488                                | Achieved          |                    | 100                                   |
| 3782.211     | 3617.211        | 196.53946 | 195.70562    | 195.70562    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00489                                | Achieved          |                    | 100                                   |
| 3772.211     | 3607.211        | 196.49738 | 195.64844    | 195.64844    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00492                                | Achieved          |                    | 100                                   |
| 3762.211     | 3597.211        | 196.47223 | 195.55334    | 195.55334    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00493                                | Achieved          |                    | 100                                   |
| 3752.211     | 3587.211        | 196.49624 | 195.45325    | 195.45325    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00499                                | Achieved          |                    | 100                                   |
| 3742.211     | 3577.211        | 196.53016 | 195.33989    | 195.33989    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00504                                | Achieved          |                    | 100                                   |
| 3732.211     | 3567.211        | 196.5117  | 195.23637    | 195.23637    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00276                                | Achieved          |                    | 100                                   |
| 3722.211     | 3557.211        | 196.47028 | 195.16043    | 195.16043    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00276                                | Achieved          |                    | 100                                   |
| 3712.211     | 3547.211        | 196.60837 | 195.10649    | 195.10649    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 3702.211     | 3537.211        | 196.61937 | 195.06201    | 195.06201    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 3692.211     | 3527.211        | 196.61693 | 195.02663    | 195.02663    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 3682.211     | 3517.211        | 196.62739 | 195.00019    | 195.00019    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 3672.211     | 3507.211        | 196.63593 | 194.98984    | 194.98984    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 3662.211     | 3497.211        | 196.68885 | 194.98732    | 194.98732    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 3652.211     | 3487.211        | 196.70169 | 194.98081    | 194.98081    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 3642.211     | 3477.211        | 196.69281 | 194.98988    | 194.98988    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 3632.211     | 3467.211        | 196.65429 | 195.00921    | 195.00921    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 3622.211     | 3457.211        | 196.6201  | 195.01966    | 195.01966    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 3612.211     | 3447.211        | 196.58243 | 194.99643    | 194.99643    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99908                                | Achieved          |                    | 100                                   |
| 3602.211     | 3437.211        | 196.50285 | 194.95901    | 194.95901    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99738                                | Achieved          |                    | 100                                   |
| 3592.211     | 3427.211        | 196.47028 | 194.92338    | 194.92338    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99629                                | Achieved          |                    | 100                                   |
| 3582.211     | 3417.211        | 196.29725 | 194.87298    | 194.87298    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99627                                | Achieved          |                    | 100                                   |
| 3572.211     | 3407.211        | 196.18772 | 194.83347    | 194.83347    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99623                                | Achieved          |                    | 100                                   |
| 3562.211     | 3397.211        | 196.09633 | 194.80883    | 194.80883    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99623                                | Achieved          |                    | 100                                   |
| 3552.211     | 3387.211        | 196.02971 | 194.80339    | 194.80339    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99622                                | Achieved          |                    | 100                                   |
| 3542.211     | 3377.211        | 195.98413 | 194.80322    | 194.80322    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99621                                | Achieved          |                    | 100                                   |
| 3532.211     | 3367.211        | 195.94292 | 194.80735    | 194.80735    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99621                                | Achieved          |                    | 100                                   |
| 3522.211     | 3357.211        | 195.91384 | 194.80399    | 194.80399    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99621                                | Achieved          |                    | 100                                   |
| 3512.211     | 3347.211        | 195.8924  | 194.78805    | 194.78805    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99621                                | Achieved          |                    | 100                                   |
| 3502.211     | 3337.211        | 195.89261 | 194.77891    | 194.77891    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99621                                | Achieved          |                    | 100                                   |
| 3492.211     | 3327.211        | 195.88067 | 194.77474    | 194.77474    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99622                                | Achieved          |                    | 100                                   |
| 3482.211     | 3317.211        | 195.88232 | 194.78839    | 194.78839    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99624                                | Achieved          |                    | 100                                   |
| 3472.211     | 3307.211        | 195.89779 | 194.79034    | 194.79034    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99629                                | Achieved          |                    | 100                                   |
| 3462.211     | 3297.211        | 195.91374 | 194.81923    | 194.81923    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99628                                | Achieved          |                    | 100                                   |
| 3452.211     | 3287.211        | 195.91195 | 194.83346    | 194.83346    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99647                                | Achieved          |                    | 100                                   |
| 3442.211     | 3277.211        | 195.87584 | 194.86635    | 194.86635    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99798                                | Achieved          |                    | 100                                   |
| 3432.211     | 3267.211        | 195.83994 | 194.84534    | 194.84534    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99949                                | Achieved          |                    | 100                                   |
| 3422.211     | 3257.211        | 195.79378 | 194.82156    | 194.82156    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00059                                | Achieved          |                    | 100                                   |
| 3412.211     | 3247.211        | 195.75784 | 194.79081    | 194.79081    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00053                                | Achieved          |                    | 100                                   |
| 3402.211     | 3237.211        | 195.71694 | 194.76365    | 194.76365    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0002                                 | Achieved          |                    | 100                                   |
| 3392.211     | 3227.211        | 195.70208 | 194.74007    | 194.74007    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00368                                | Achieved          |                    | 100                                   |
| 3382.211     | 3217.211        | 195.70443 | 194.69168    | 194.69168    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00217                                | Achieved          |                    | 100                                   |
| 3372.211     | 3207.211        | 195.70359 | 194.65618    | 194.65618    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00249                                | Achieved          |                    | 100                                   |
| 3362.211     | 3197.211        | 195.71043 | 194.63277    | 194.63277    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.06394                                | Achieved          |                    | 100                                   |
| 3352.211     | 3187.211        | 195.69519 | 194.5826     | 194.5826     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.08845                                | Achieved          |                    | 100                                   |
| 3342.211     | 3177.211        | 195.68245 | 194.51456    | 194.51456    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.09296                                | Achieved          |                    | 100                                   |
| 3332.211     | 3167.211        | 195.67331 | 194.40378    | 194.40378    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.09264                                | Achieved          |                    | 100                                   |
| 3322.211     | 3157.211        | 195.68622 | 194.23645    | 194.23645    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.06795                                | Achieved          |                    | 100                                   |
| 3312.211     | 3147.211        | 195.68899 | 194.03024    | 194.03024    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0005                                 | Achieved          |                    | 100                                   |
| 3302.211     | 3137.211        | 195.69891 | 193.78997    | 193.78997    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.96237                                | Achieved          |                    | 100                                   |
| 3292.211     | 3127.211        | 195.73666 | 193.51729    | 193.51729    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.92157                                | Achieved          |                    | 100                                   |
| 3282.211     | 3116.211        | 195.76401 | 193.48566    | 193.48566    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 166                     | 153.93379                                | Released          | Vertical alignment | 100                                   |
| 3272.211     | 3104.211        | 195.76021 | 193.42303    | 193.42303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 148                     | 147.94373                                | Released          | Vertical alignment | 100                                   |
| 3262.211     | 3092.211        | 195.73033 | 193.36101    | 193.36101    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 139.92373                                | Not Achieved      | Vertical alignment | 90                                    |
| 3252.211     | 3080.211        | 195.70861 | 193.29295    | 193.29295    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 131.97001                                | Not Achieved      | Vertical alignment | 80                                    |
| 3242.211     | 3068.211        | 195.67293 | 193.22582    | 193.22582    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 123.92024                                | Not Achieved      | Vertical alignment | 80                                    |
| 3232.211     | 3056.211        | 195.65019 | 193.15431    | 193.15431    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 116.02393                                | Not Achieved      | Vertical alignment | 80                                    |
| 3222.211     | 3044.211        | 195.6114  | 193.09777    | 193.09777    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 110.00389                                | Not Achieved      | Vertical alignment | 80                                    |
| 3212.211     | 3032.211        | 195.57212 | 192.90216    | 192.90216    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 102.12089                                | Not Achieved      | Vertical alignment | 80                                    |
| 3202.211     | 3020.211        | 195.54823 | 192.80375    | 192.80375    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 94.14313                                 | Not Achieved      | Vertical alignment | 70                                    |
| 3192.211     | 3008.211        | 195.51129 | 192.69841    | 192.69841    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 86                      | 86.13229                                 | Not Achieved      | Vertical alignment | 70                                    |
| 3182.211     | 2996.211        | 195.45076 | 192.46036    | 192.46036    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 80                      | 80.1429                                  | Not Achieved      | Vertical alignment | 60                                    |
| 3172.211     | 2984.211        | 195.37236 | 192.32071    | 192.32071    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 72                      | 72.13279                                 | Not Achieved      | Vertical alignment | 60                                    |
| 3162.211     | 2972.211        | 195.22959 | 192.1804     | 192.1804     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 64                      | 64.11021                                 | Not Achieved      | Vertical alignment | 60                                    |
| 3152.211     | 2960.211        | 195.04061 | 191.87317    | 191.87317    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 58                      | 58.08638                                 | Not Achieved      | Vertical alignment | 50                                    |
| 3142.211     | 2948.211        | 194.81181 | 191.54527    | 191.54527    |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 2682.211     | 2517.211        | 171.02614 | 173.25666    | 173.25666    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 157.35457                                | Achieved          |                    | 100                                   |
| 2672.211     | 2507.211        | 171.13097 | 173.62633    | 173.62633    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 158.68207                                | Achieved          |                    | 100                                   |
| 2662.211     | 2497.211        | 171.20493 | 173.98293    | 173.98293    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.23388                                | Achieved          |                    | 100                                   |
| 2652.211     | 2487.211        | 171.3388  | 174.36846    | 174.36846    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 161.74213                                | Achieved          |                    | 100                                   |
| 2642.211     | 2477.211        | 171.49839 | 174.79393    | 174.79393    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.99248                                | Achieved          |                    | 100                                   |
| 2632.211     | 2467.211        | 171.63273 | 175.20853    | 175.20853    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.93036                                | Achieved          |                    | 100                                   |
| 2622.211     | 2457.211        | 171.79921 | 175.61964    | 175.61964    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.55356                                | Achieved          |                    | 100                                   |
| 2612.211     | 2447.211        | 171.99904 | 176.01012    | 176.01012    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.82061                                | Achieved          |                    | 100                                   |
| 2602.211     | 2437.211        | 172.21302 | 176.39474    | 176.39474    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.76799                                | Achieved          |                    | 100                                   |
| 2592.211     | 2427.211        | 172.40731 | 176.78281    | 176.78281    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.46338                                | Achieved          |                    | 100                                   |
| 2582.211     | 2417.211        | 172.62875 | 177.16668    | 177.16668    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.01546                                | Achieved          |                    | 100                                   |
| 2572.211     | 2408.211        | 172.80324 | 177.52699    | 177.52699    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 162.60932                                | Relaxed           | Inside Curve       | 100                                   |
| 2562.211     | 2408.211        | 172.96246 | 177.82699    | 177.82699    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 152.60792                                | Relaxed           | Inside Curve       | 100                                   |
| 2552.211     | 2406.211        | 173.16434 | 177.61132    | 177.61132    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 144.56193                                | Relaxed           | Inside Curve       | 100                                   |
| 2542.211     | 2406.211        | 173.40395 | 177.61132    | 177.61132    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 134.39741                                | Not Achieved      | Inside Curve       | 90                                    |
| 2532.211     | 2404.211        | 173.68521 | 177.69867    | 177.69867    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 126.57028                                | Not Achieved      | Inside Curve       | 90                                    |
| 2522.211     | 2400.211        | 173.98384 | 177.87415    | 177.87415    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 120.49239                                | Not Achieved      | Inside Curve       | 90                                    |
| 2512.211     | 2396.211        | 174.34323 | 178.0495     | 178.0495     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 114.44126                                | Not Achieved      | Inside Curve       | 80                                    |
| 2502.211     | 2390.211        | 174.70559 | 178.32743    | 178.32743    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 110.38215                                | Not Achieved      | Inside Curve       | 80                                    |
| 2492.211     | 2383.211        | 175.07072 | 178.71008    | 178.71008    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 108.28993                                | Not Achieved      | Inside Curve       | 80                                    |
| 2482.211     | 2376.211        | 175.43667 | 179.32853    | 179.32853    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 110.45048                                | Not Achieved      | Inside Curve       | 80                                    |
| 2472.211     | 2307.211        | 175.90489 | 183.14009    | 183.14009    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 159.8861                                 | Achieved          |                    | 100                                   |
| 2462.211     | 2297.211        | 176.31712 | 183.64694    | 183.64694    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 159.93369                                | Achieved          |                    | 100                                   |
| 2452.211     | 2287.211        | 176.71743 | 184.14524    | 184.14524    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.13222                                | Achieved          |                    | 100                                   |
| 2442.211     | 2277.211        | 177.10273 | 184.66383    | 184.66383    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.37399                                | Achieved          |                    | 100                                   |
| 2432.211     | 2267.211        | 177.49899 | 185.19815    | 185.19815    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.63973                                | Achieved          |                    | 100                                   |
| 2422.211     | 2257.211        | 177.87761 | 185.7213     | 185.7213     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.98167                                | Achieved          |                    | 100                                   |
| 2412.211     | 2247.211        | 178.26    | 186.24434    | 186.24434    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 161.29913                                | Achieved          |                    | 100                                   |
| 2402.211     | 2237.211        | 178.65711 | 186.7628     | 186.7628     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 161.64605                                | Achieved          |                    | 100                                   |
| 2392.211     | 2227.211        | 179.13417 | 187.23537    | 187.23537    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.05619                                | Achieved          |                    | 100                                   |
| 2382.211     | 2217.211        | 179.61008 | 187.70229    | 187.70229    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.51293                                | Achieved          |                    | 100                                   |
| 2372.211     | 2207.211        | 180.11655 | 188.07522    | 188.07522    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.9827                                 | Achieved          |                    | 100                                   |
| 2362.211     | 2197.211        | 180.65028 | 188.36859    | 188.36859    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.44897                                | Achieved          |                    | 100                                   |
| 2352.211     | 2187.211        | 181.20957 | 188.34543    | 188.34543    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 151.8309                                 | Relaxed           | Vertical alignment | 100                                   |
| 2342.211     | 2196.211        | 181.92297 | 188.39117    | 188.39117    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 145.33733                                | Relaxed           | Vertical alignment | 100                                   |
| 2332.211     | 2196.211        | 182.59143 | 188.39117    | 188.39117    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 133.58767                                | Not Achieved      | Vertical alignment | 90                                    |
| 2322.211     | 2194.211        | 183.19777 | 188.43448    | 188.43448    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 127.71653                                | Not Achieved      | Vertical alignment | 90                                    |
| 2312.211     | 2192.211        | 183.76431 | 188.48345    | 188.48345    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 120                     | 119.83757                                | Not Achieved      | Vertical alignment | 90                                    |
| 2302.211     | 2190.211        | 184.30052 | 188.5242     | 188.5242     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 111.89083                                | Not Achieved      | Vertical alignment | 80                                    |
| 2292.211     | 2190.211        | 184.79427 | 188.5242     | 188.5242     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 101.93483                                | Not Achieved      | Vertical alignment | 80                                    |
| 2282.211     | 2186.211        | 185.29919 | 188.59721    | 188.59721    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 95.96325                                 | Not Achieved      | Vertical alignment | 70                                    |
| 2272.211     | 2182.211        | 185.83222 | 188.66189    | 188.66189    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 89.97536                                 | Not Achieved      | Vertical alignment | 70                                    |
| 2262.211     | 2178.211        | 186.33888 | 188.72294    | 188.72294    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 83.97998                                 | Not Achieved      | Vertical alignment | 70                                    |
| 2252.211     | 2168.211        | 186.8168  | 188.84839    | 188.84839    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 83.90033                                 | Not Achieved      | Vertical alignment | 70                                    |
| 2242.211     | 2077.211        | 187.40332 | 192.26859    | 192.26859    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.89031                                | Achieved          |                    | 100                                   |
| 2232.211     | 2067.211        | 187.90712 | 192.75118    | 192.75118    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.86998                                | Achieved          |                    | 100                                   |
| 2222.211     | 2057.211        | 188.38677 | 193.24672    | 193.24672    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94513                                | Achieved          |                    | 100                                   |
| 2212.211     | 2047.211        | 188.79974 | 193.73165    | 193.73165    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.80934                                | Achieved          |                    | 100                                   |
| 2202.211     | 2037.211        | 189.1316  | 194.23778    | 194.23778    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.77021                                | Achieved          |                    | 100                                   |
| 2192.211     | 2027.211        | 189.38345 | 194.73413    | 194.73413    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.74006                                | Achieved          |                    | 100                                   |
| 2182.211     | 2017.211        | 189.56189 | 195.31586    | 195.31586    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.70163                                | Achieved          |                    | 100                                   |
| 2172.211     | 2007.211        | 189.69336 | 195.89919    | 195.89919    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.65193                                | Achieved          |                    | 100                                   |
| 2162.211     | 1997.211        | 189.83697 | 196.39046    | 196.39046    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.62874                                | Achieved          |                    | 100                                   |
| 2152.211     | 1987.211        | 190.01237 | 196.8725     | 196.8725     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.61708                                | Achieved          |                    | 100                                   |
| 2142.211     | 1977.211        | 190.24711 | 197.25713    | 197.25713    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.61909                                | Achieved          |                    | 100                                   |
| 2132.211     | 1967.211        | 190.53227 | 197.55666    | 197.55666    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.63295                                | Achieved          |                    | 100                                   |
| 2122.211     | 1964.211        | 190.895   | 197.63123    | 197.63123    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 158                     | 157.66222                                | Relaxed           | Vertical alignment | 100                                   |
| 2112.211     | 1964.211        | 191.35699 | 197.63123    | 197.63123    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 148                     | 147.71074                                | Relaxed           | Vertical alignment | 100                                   |
| 2102.211     | 1964.211        | 191.82313 | 197.63123    | 197.63123    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 138                     | 137.79338                                | Not Achieved      | Vertical alignment | 90                                    |
| 2092.211     | 1962.211        | 192.41109 | 197.68221    | 197.68221    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 129.79521                                | Not Achieved      | Vertical alignment | 90                                    |
| 2082.211     | 1962.211        | 192.92554 | 197.68221    | 197.68221    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 120                     | 119.83133                                | Not Achieved      | Vertical alignment | 90                                    |
| 2072.211     | 1960.211        | 193.40689 | 197.72389    | 197.72389    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 111.86779                                | Not Achieved      | Vertical alignment | 80                                    |
| 2062.211     | 1960.211        | 193.89956 | 197.72389    | 197.72389    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 101.8926                                 | Not Achieved      | Vertical alignment | 80                                    |
| 2052.211     | 1958.211        | 194.38934 | 197.76268    | 197.76268    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 93.91872                                 | Not Achieved      | Vertical alignment | 80                                    |
| 2042.211     | 1956.211        | 194.88159 | 197.79705    | 197.79705    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 86                      | 83.94217                                 | Not Achieved      | Vertical alignment | 70                                    |
| 2032.211     | 1950.211        | 195.39473 | 197.8832     | 197.8832     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 82                      | 81.96251                                 | Not Achieved      | Vertical alignment | 70                                    |
| 2022.211     | 1944.211        | 195.92688 | 197.93898    | 197.93898    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 77.97063                                 | Not Achieved      | Vertical alignment | 60                                    |
| 2012.211     | 1932.211        | 196.48962 | 198.09214    | 198.09214    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 80                      | 79.99637                                 | Not Achieved      | Vertical alignment | 60                                    |
| 2002.211     | 1914.211        | 197.0298  | 198.16563    | 198.16563    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 88.01002                                 | Not Achieved      | Vertical alignment | 70                                    |
| 1992.211     | 1896.211        | 197.5388  | 198.12674    | 198.12674    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 96.01009                                 | Not Achieved      | Vertical alignment | 70                                    |
| 1982.211     | 1886.211        | 197.6048  | 197.96099    | 197.96099    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 136.00906                                | Not Achieved      | Vertical alignment | 90                                    |
| 1972.211     | 1820.211        | 196.30983 | 197.65494    | 197.65494    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 132.00617                                | Relaxed           | Vertical alignment | 100                                   |
| 1962.211     | 1816.211        | 196.58221 | 197.71113    | 197.71113    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 146.00321                                | Relaxed           | Vertical alignment | 100                                   |
| 1952.211     | 1814.211        | 196.73559 | 197.52053    | 197.52053    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 138                     | 138.00022                                | Not Achieved      | Vertical alignment | 90                                    |
| 1942.211     | 1812.211        | 196.88251 | 197.46918    | 197.46918    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 130.00000                                | Not Achieved      | Vertical alignment | 90                                    |
| 1932.211     | 1808.211        | 196.99214 | 197.34097    | 197.34097    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 124.00000                                | Not Achieved      | Vertical alignment | 90                                    |
| 1922.211     | 1806.211        | 199.0463  | 197.27212    | 197.27212    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 116.00000                                | Not Achieved      | Vertical alignment | 80                                    |
| 1912.211     | 1804.211        | 199.06779 | 197.1961     | 197.1961     | 100          | 0.00%               | 0.00%         | 165                     |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD 2sec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 1472.211     | 1344.211        | 191.54951 | 190.74096    | 190.74096    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 128.03146                                | Not Achieved      | Vertical alignment | 90                                    |
| 1462.211     | 1342.211        | 191.53792 | 190.6994     | 190.6994     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 120                     | 120.03353                                | Not Achieved      | Vertical alignment | 90                                    |
| 1452.211     | 1340.211        | 191.58764 | 190.63699    | 190.63699    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 112.03541                                | Not Achieved      | Vertical alignment | 80                                    |
| 1442.211     | 1338.211        | 191.62922 | 190.61442    | 190.61442    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 104                     | 104.03569                                | Not Achieved      | Vertical alignment | 80                                    |
| 1432.211     | 1332.211        | 191.67003 | 190.48148    | 190.48148    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 100.03461                                | Not Achieved      | Vertical alignment | 80                                    |
| 1422.211     | 1326.211        | 191.73837 | 190.32167    | 190.32167    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 96.03081                                 | Not Achieved      | Vertical alignment | 70                                    |
| 1412.211     | 1316.211        | 191.79392 | 190.05091    | 190.05091    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 96.032                                   | Not Achieved      | Vertical alignment | 70                                    |
| 1402.211     | 1290.211        | 191.87322 | 189.32973    | 189.32973    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 112.03218                                | Not Achieved      | Vertical alignment | 80                                    |
| 1392.211     | 1227.211        | 191.92529 | 188.15923    | 188.15923    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.0461                                 | Achieved          |                    | 100                                   |
| 1382.211     | 1217.211        | 191.98022 | 188.02312    | 188.02312    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.04334                                | Achieved          |                    | 100                                   |
| 1372.211     | 1207.211        | 192.00854 | 187.90733    | 187.90733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.04311                                | Achieved          |                    | 100                                   |
| 1362.211     | 1197.211        | 191.93864 | 187.82581    | 187.82581    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.03837                                | Achieved          |                    | 100                                   |
| 1352.211     | 1187.211        | 191.80456 | 187.76041    | 187.76041    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.03326                                | Achieved          |                    | 100                                   |
| 1342.211     | 1177.211        | 191.5994  | 187.69823    | 187.69823    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.02783                                | Achieved          |                    | 100                                   |
| 1332.211     | 1167.211        | 191.38148 | 187.62412    | 187.62412    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.02428                                | Achieved          |                    | 100                                   |
| 1322.211     | 1157.211        | 191.11438 | 187.49103    | 187.49103    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.0239                                 | Achieved          |                    | 100                                   |
| 1312.211     | 1147.211        | 190.82794 | 187.23896    | 187.23896    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.01136                                | Achieved          |                    | 100                                   |
| 1302.211     | 1137.211        | 190.54996 | 186.86488    | 186.86488    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00766                                | Achieved          |                    | 100                                   |
| 1292.211     | 1138.211        | 190.28241 | 186.90482    | 186.90482    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 154.00771                                | Relaxed           | Vertical alignment | 100                                   |
| 1282.211     | 1138.211        | 190.03119 | 186.90482    | 186.90482    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 144.00776                                | Relaxed           | Vertical alignment | 100                                   |
| 1272.211     | 1138.211        | 189.80642 | 186.90482    | 186.90482    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134.00781                                | Not Achieved      | Vertical alignment | 90                                    |
| 1262.211     | 1138.211        | 189.61987 | 186.90482    | 186.90482    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 124.00788                                | Not Achieved      | Vertical alignment | 90                                    |
| 1252.211     | 1136.211        | 189.46074 | 186.82332    | 186.82332    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 116.00793                                | Not Achieved      | Vertical alignment | 80                                    |
| 1242.211     | 1136.211        | 189.28616 | 186.82332    | 186.82332    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 106                     | 106.00803                                | Not Achieved      | Vertical alignment | 80                                    |
| 1232.211     | 1134.211        | 189.13174 | 186.7467     | 186.7467     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 98.00668                                 | Not Achieved      | Vertical alignment | 70                                    |
| 1222.211     | 1134.211        | 188.98926 | 186.7467     | 186.7467     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 88.00373                                 | Not Achieved      | Vertical alignment | 70                                    |
| 1212.211     | 1130.211        | 188.86413 | 186.5832     | 186.5832     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 82                      | 82.00074                                 | Not Achieved      | Vertical alignment | 70                                    |
| 1202.211     | 1122.211        | 188.7513  | 186.26669    | 186.26669    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 80                      | 79.99843                                 | Not Achieved      | Vertical alignment | 60                                    |
| 1192.211     | 1027.211        | 188.69194 | 184.93046    | 184.93046    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98983                                | Achieved          |                    | 100                                   |
| 1182.211     | 1017.211        | 188.62051 | 185.03335    | 185.03335    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98989                                | Achieved          |                    | 100                                   |
| 1172.211     | 1007.211        | 188.56743 | 185.13499    | 185.13499    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98994                                | Achieved          |                    | 100                                   |
| 1162.211     | 997.211         | 188.46441 | 185.2319     | 185.2319     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99002                                | Achieved          |                    | 100                                   |
| 1152.211     | 987.211         | 188.38277 | 185.30801    | 185.30801    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99012                                | Achieved          |                    | 100                                   |
| 1142.211     | 977.211         | 187.96404 | 185.32339    | 185.32339    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99025                                | Achieved          |                    | 100                                   |
| 1132.211     | 967.211         | 187.56419 | 185.38303    | 185.38303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9904                                 | Achieved          |                    | 100                                   |
| 1122.211     | 937.211         | 187.16669 | 185.24899    | 185.24899    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99212                                | Achieved          |                    | 100                                   |
| 1112.211     | 947.211         | 186.79213 | 185.21834    | 185.21834    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99966                                | Achieved          |                    | 100                                   |
| 1102.211     | 937.211         | 186.48021 | 185.18824    | 185.18824    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 1092.211     | 927.211         | 186.21833 | 185.16002    | 185.16002    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |
| 1082.211     | 917.211         | 186.02071 | 185.13224    | 185.13224    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163                                      | Achieved          |                    | 100                                   |



Birralee Main Road (A1701) – Prescribed Direction (PD)

Stopping Sight Distance

Car Driver Eye Height 1.10m to 0.8m Object Height

Continuous Chainage from Link 08

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDO Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 910          | 1075            | 186.04342 | 185.65645    | 185.65645    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 920          | 1085            | 186.04631 | 185.79332    | 185.79332    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 930          | 1095            | 186.05765 | 185.99936    | 185.99936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 940          | 1105            | 186.09079 | 186.27389    | 186.27389    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 950          | 1115            | 186.13364 | 186.58866    | 186.58866    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00243                                | Achieved          |                    | 100                                  |
| 960          | 1125            | 186.14913 | 186.97459    | 186.97459    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0093                                 | Achieved          |                    | 100                                  |
| 970          | 1135            | 186.17905 | 187.39761    | 187.39761    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00913                                | Achieved          |                    | 100                                  |
| 980          | 1145            | 186.20214 | 187.77894    | 187.77894    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00899                                | Achieved          |                    | 100                                  |
| 990          | 1155            | 186.1812  | 188.02912    | 188.02912    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00887                                | Achieved          |                    | 100                                  |
| 1000         | 1165            | 186.12396 | 188.20103    | 188.20103    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00877                                | Achieved          |                    | 100                                  |
| 1010         | 1175            | 186.02886 | 188.29132    | 188.29132    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0087                                 | Achieved          |                    | 100                                  |
| 1020         | 1185            | 185.92833 | 188.36012    | 188.36012    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00865                                | Achieved          |                    | 100                                  |
| 1030         | 1195            | 185.85214 | 188.42975    | 188.42975    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00862                                | Achieved          |                    | 100                                  |
| 1040         | 1205            | 185.83587 | 188.50674    | 188.50674    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00862                                | Achieved          |                    | 100                                  |
| 1050         | 1215            | 185.85519 | 188.5985     | 188.5985     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00707                                | Achieved          |                    | 100                                  |
| 1060         | 1225            | 185.866   | 188.72807    | 188.72807    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00414                                | Achieved          |                    | 100                                  |
| 1070         | 1235            | 185.90868 | 188.89155    | 188.89155    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0012                                 | Achieved          |                    | 100                                  |
| 1080         | 1245            | 186.01954 | 189.05656    | 189.05656    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0006                                 | Achieved          |                    | 100                                  |
| 1090         | 1255            | 186.18631 | 189.2243     | 189.2243     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00063                                | Achieved          |                    | 100                                  |
| 1100         | 1265            | 186.42922 | 189.39476    | 189.39476    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00066                                | Achieved          |                    | 100                                  |
| 1110         | 1275            | 186.72518 | 189.58608    | 189.58608    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00069                                | Achieved          |                    | 100                                  |
| 1120         | 1285            | 187.07327 | 189.80507    | 189.80507    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99449                                | Achieved          |                    | 100                                  |
| 1130         | 1295            | 187.48624 | 190.0405     | 190.0405     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99125                                | Achieved          |                    | 100                                  |
| 1140         | 1305            | 187.90318 | 190.30303    | 190.30303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99124                                | Achieved          |                    | 100                                  |
| 1150         | 1315            | 188.22396 | 190.59417    | 190.59417    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98933                                | Achieved          |                    | 100                                  |
| 1160         | 1325            | 188.42999 | 190.85111    | 190.85111    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9779                                 | Achieved          |                    | 100                                  |
| 1170         | 1335            | 188.52524 | 191.08577    | 191.08577    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97129                                | Achieved          |                    | 100                                  |
| 1180         | 1345            | 188.6257  | 191.27455    | 191.27455    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96531                                | Achieved          |                    | 100                                  |
| 1190         | 1355            | 188.69459 | 191.43869    | 191.43869    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.95765                                | Achieved          |                    | 100                                  |
| 1200         | 1365            | 188.7674  | 191.5481     | 191.5481     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.94961                                | Achieved          |                    | 100                                  |
| 1210         | 1375            | 188.85363 | 191.59586    | 191.59586    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9413                                 | Achieved          |                    | 100                                  |
| 1220         | 1385            | 188.95602 | 191.58687    | 191.58687    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.93549                                | Achieved          |                    | 100                                  |
| 1230         | 1395            | 189.10933 | 191.56035    | 191.56035    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92917                                | Achieved          |                    | 100                                  |
| 1240         | 1405            | 189.27542 | 191.50658    | 191.50658    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92149                                | Achieved          |                    | 100                                  |
| 1250         | 1415            | 189.4393  | 191.44495    | 191.44495    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91143                                | Achieved          |                    | 100                                  |
| 1260         | 1425            | 189.60754 | 191.39341    | 191.39341    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.90133                                | Achieved          |                    | 100                                  |
| 1270         | 1435            | 189.7873  | 191.34617    | 191.34617    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.8925                                 | Achieved          |                    | 100                                  |
| 1280         | 1445            | 189.9185  | 191.31682    | 191.31682    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.88633                                | Achieved          |                    | 100                                  |
| 1290         | 1455            | 190.21758 | 191.28603    | 191.28603    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.88339                                | Achieved          |                    | 100                                  |
| 1300         | 1465            | 190.47017 | 191.26954    | 191.26954    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.88387                                | Achieved          |                    | 100                                  |
| 1310         | 1475            | 190.73799 | 191.26664    | 191.26664    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.88925                                | Achieved          |                    | 100                                  |
| 1320         | 1485            | 191.02293 | 191.24919    | 191.24919    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.90481                                | Achieved          |                    | 100                                  |
| 1330         | 1495            | 191.2786  | 191.23547    | 191.23547    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165.00002               | 164.90922                                | Achieved          |                    | 100                                  |
| 1340         | 1505            | 191.48577 | 191.2464     | 191.2464     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91623                                | Achieved          |                    | 100                                  |
| 1350         | 1515            | 191.66112 | 191.25753    | 191.25753    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92589                                | Achieved          |                    | 100                                  |
| 1360         | 1525            | 191.80074 | 191.24772    | 191.24772    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.93542                                | Achieved          |                    | 100                                  |
| 1370         | 1535            | 191.88031 | 191.23744    | 191.23744    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.94455                                | Achieved          |                    | 100                                  |
| 1380         | 1545            | 191.89547 | 191.26157    | 191.26157    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.95322                                | Achieved          |                    | 100                                  |
| 1390         | 1555            | 191.87619 | 191.31435    | 191.31435    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96147                                | Achieved          |                    | 100                                  |
| 1400         | 1565            | 191.83774 | 191.41221    | 191.41221    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96945                                | Achieved          |                    | 100                                  |
| 1410         | 1575            | 191.77333 | 191.53251    | 191.53251    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97713                                | Achieved          |                    | 100                                  |
| 1420         | 1585            | 191.71924 | 191.67772    | 191.67772    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98573                                | Achieved          |                    | 100                                  |
| 1430         | 1595            | 191.68646 | 191.85636    | 191.85636    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99372                                | Achieved          |                    | 100                                  |
| 1440         | 1605            | 191.62795 | 192.05806    | 192.05806    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |                    | 100                                  |
| 1450         | 1615            | 191.60378 | 192.22042    | 192.22042    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00397                                | Achieved          |                    | 100                                  |
| 1460         | 1625            | 191.57139 | 192.35239    | 192.35239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00623                                | Achieved          |                    | 100                                  |
| 1470         | 1635            | 191.56976 | 192.46088    | 192.46088    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00763                                | Achieved          |                    | 100                                  |
| 1480         | 1645            | 191.5897  | 192.56143    | 192.56143    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00636                                | Achieved          |                    | 100                                  |
| 1490         | 1655            | 191.54022 | 192.67976    | 192.67976    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00502                                | Achieved          |                    | 100                                  |
| 1500         | 1665            | 191.53915 | 192.82281    | 192.82281    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00351                                | Achieved          |                    | 100                                  |
| 1510         | 1675            | 191.53536 | 192.99465    | 192.99465    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00222                                | Achieved          |                    | 100                                  |
| 1520         | 1685            | 191.55483 | 193.19438    | 193.19438    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00254                                | Achieved          |                    | 100                                  |
| 1530         | 1695            | 191.53888 | 193.44294    | 193.44294    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00286                                | Achieved          |                    | 100                                  |
| 1540         | 1705            | 191.54822 | 193.7287     | 193.7287     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00318                                | Achieved          |                    | 100                                  |
| 1550         | 1715            | 191.58364 | 194.03348    | 194.03348    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00352                                | Achieved          |                    | 100                                  |
| 1560         | 1725            | 191.65996 | 194.3502     | 194.3502     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00364                                | Achieved          |                    | 100                                  |
| 1570         | 1735            | 191.77105 | 194.67846    | 194.67846    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00402                                | Achieved          |                    | 100                                  |
| 1580         | 1745            | 191.90154 | 195.04072    | 195.04072    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00391                                | Achieved          |                    | 100                                  |
| 1590         | 1755            | 192.06215 | 195.45811    | 195.45811    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00263                                | Achieved          |                    | 100                                  |
| 1600         | 1765            | 192.25936 | 195.92787    | 195.92787    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00114                                | Achieved          |                    | 100                                  |
| 1610         | 1775            | 192.44318 | 196.42608    | 196.42608    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99964                                | Achieved          |                    | 100                                  |
| 1620         | 1785            | 192.59104 | 196.93569    | 196.93569    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99814                                | Achieved          |                    | 100                                  |
| 1630         | 1795            | 192.70934 | 197.42567    | 197.42567    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99665                                | Achieved          |                    | 100                                  |
| 1640         | 1805            | 192.8091  | 197.84712    | 197.84712    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99617                                | Achieved          |                    | 100                                  |
| 1650         | 1815            | 192.92096 | 198.16488    | 198.16488    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9977                                 | Achieved          |                    | 100                                  |
| 1660         | 1825            | 193.04888 | 198.37773    | 198.37773    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99921                                | Achieved          |                    | 100                                  |
| 1670         | 1835            | 193.20585 | 198.52363    | 198.52363    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00071                                | Achieved          |                    | 100                                  |
| 1680         | 1845            | 193.38893 | 198.59678    | 198.59678    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00127                                | Achieved          |                    | 100                                  |
| 1690         | 1855            | 193.61346 | 198.61049    | 198.61049    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00127                                | Achieved          |                    | 100                                  |
| 1700         | 1854            | 193.88238 | 198.61161    | 198.61161    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 154.00127                                | Relaxed           | Vertical alignment | 100                                  |
| 1710         | 1854            | 194.17908 | 198.61161    | 198.61161    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 144.00127                                | Relaxed           | Vertical alignment | 100                                  |
| 1720         | 1854            | 194.49072 | 198.61161    | 198.61161    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134.00128                                | Not Achieved      | Vertical alignment | 90                                   |
| 1730         | 1854            | 194.8122  | 198.61161    | 198.61161    | 100          | 0.00%               | 0.00%         | 165                     | 141                    |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 2090         | 2255            | 192.64144 | 186.49868    | 186.49868    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06577                                | Achieved          |                    | 100                                  |
| 2100         | 2265            | 192.10767 | 185.97665    | 185.97665    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05215                                | Achieved          |                    | 100                                  |
| 2110         | 2275            | 191.57363 | 185.46688    | 185.46688    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04357                                | Achieved          |                    | 100                                  |
| 2120         | 2274            | 191.09139 | 185.51777    | 185.51777    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 154.02576                                | Relaxed           | Vertical alignment | 100                                  |
| 2130         | 2272            | 190.6864  | 185.61666    | 185.61666    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 142.02084                                | Relaxed           | Vertical alignment | 100                                  |
| 2140         | 2274            | 190.36168 | 185.51777    | 185.51777    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134.02306                                | Not Achieved      | Vertical alignment | 90                                   |
| 2150         | 2288            | 190.13207 | 184.82817    | 184.82817    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 138                     | 138.04159                                | Not Achieved      | Vertical alignment | 90                                   |
| 2160         | 2314            | 189.93313 | 183.5461     | 183.5461     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 154.10278                                | Relaxed           | Vertical alignment | 100                                  |
| 2170         | 2335            | 189.77213 | 182.31933    | 182.31933    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.09916                                | Achieved          |                    | 100                                  |
| 2180         | 2345            | 189.61495 | 181.69747    | 181.69747    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03812                                | Achieved          |                    | 100                                  |
| 2190         | 2355            | 189.46498 | 181.04794    | 181.04794    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.82738                                | Achieved          |                    | 100                                  |
| 2200         | 2365            | 189.22748 | 180.42088    | 180.42088    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.47801                                | Achieved          |                    | 100                                  |
| 2210         | 2375            | 188.92117 | 179.84823    | 179.84823    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.11089                                | Achieved          |                    | 100                                  |
| 2220         | 2385            | 188.53991 | 179.36125    | 179.36125    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.7457                                 | Achieved          |                    | 100                                  |
| 2230         | 2395            | 188.07966 | 178.86064    | 178.86064    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.38544                                | Achieved          |                    | 100                                  |
| 2240         | 2405            | 187.58773 | 178.40537    | 178.40537    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.05479                                | Achieved          |                    | 100                                  |
| 2250         | 2415            | 187.0598  | 177.99386    | 177.99386    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.79267                                | Achieved          |                    | 100                                  |
| 2260         | 2425            | 186.53791 | 177.63115    | 177.63115    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.62696                                | Achieved          |                    | 100                                  |
| 2270         | 2435            | 186.01923 | 177.25681    | 177.25681    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.47918                                | Achieved          |                    | 100                                  |
| 2280         | 2445            | 185.52159 | 176.86998    | 176.86998    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.34967                                | Achieved          |                    | 100                                  |
| 2290         | 2455            | 185.03308 | 176.46155    | 176.46155    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.25622                                | Achieved          |                    | 100                                  |
| 2300         | 2465            | 184.55336 | 176.02699    | 176.02699    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.16249                                | Achieved          |                    | 100                                  |
| 2310         | 2475            | 184.05888 | 175.60734    | 175.60734    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.15135                                | Achieved          |                    | 100                                  |
| 2320         | 2485            | 183.51161 | 175.18389    | 175.18389    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.3016                                 | Achieved          |                    | 100                                  |
| 2330         | 2495            | 182.91757 | 174.76095    | 174.76095    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.54805                                | Achieved          |                    | 100                                  |
| 2340         | 2505            | 182.31523 | 174.34607    | 174.34607    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.85284                                | Achieved          |                    | 100                                  |
| 2350         | 2515            | 181.70881 | 173.94975    | 173.94975    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.26677                                | Achieved          |                    | 100                                  |
| 2360         | 2525            | 181.09166 | 173.56881    | 173.56881    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.75871                                | Achieved          |                    | 100                                  |
| 2370         | 2535            | 180.41688 | 173.27331    | 173.27331    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.50685                                | Achieved          |                    | 100                                  |
| 2380         | 2545            | 179.90564 | 173.00891    | 173.00891    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.77695                                | Achieved          |                    | 100                                  |
| 2390         | 2555            | 179.40743 | 172.76964    | 172.76964    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.03333                                | Achieved          |                    | 100                                  |
| 2400         | 2565            | 178.93044 | 172.56272    | 172.56272    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.33437                                | Achieved          |                    | 100                                  |
| 2410         | 2575            | 178.48844 | 172.36905    | 172.36905    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.60056                                | Achieved          |                    | 100                                  |
| 2420         | 2585            | 178.11213 | 172.13633    | 172.13633    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.80378                                | Achieved          |                    | 100                                  |
| 2430         | 2595            | 177.74866 | 171.88791    | 171.88791    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.8239                                 | Achieved          |                    | 100                                  |
| 2440         | 2605            | 177.362   | 171.6758     | 171.6758     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.60173                                | Achieved          |                    | 100                                  |
| 2450         | 2615            | 176.97128 | 171.44322    | 171.44322    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.08164                                | Achieved          |                    | 100                                  |
| 2460         | 2625            | 176.5445  | 171.22242    | 171.22242    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.23708                                | Achieved          |                    | 100                                  |
| 2470         | 2635            | 176.11855 | 171.06236    | 171.06236    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.13732                                | Achieved          |                    | 100                                  |
| 2480         | 2645            | 175.69474 | 170.94349    | 170.94349    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.78804                                | Achieved          |                    | 100                                  |
| 2490         | 2655            | 175.27154 | 170.83084    | 170.83084    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164.99999               | 159.12503                                | Achieved          |                    | 100                                  |
| 2500         | 2665            | 174.85052 | 170.74929    | 170.74929    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 157.36785                                | Achieved          |                    | 100                                  |
| 2510         | 2675            | 174.44489 | 170.74181    | 170.74181    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 155.73463                                | Achieved          |                    | 100                                  |
| 2520         | 2682            | 174.06117 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 151.95486                                | Relaxed           | BRIDGE             |                                      |
| 2530         | 2682            | 173.72345 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 142.49367                                | Relaxed           | BRIDGE             |                                      |
| 2540         | 2682            | 173.43823 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 133.11129                                | Relaxed           | BRIDGE             |                                      |
| 2550         | 2682            | 173.18499 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 123.82562                                | Not Achieved      | BRIDGE             |                                      |
| 2560         | 2682            | 172.96452 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 114.66016                                | Not Achieved      | BRIDGE             |                                      |
| 2570         | 2682            | 172.76036 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 105.64667                                | Not Achieved      | BRIDGE             |                                      |
| 2580         | 2682            | 172.56614 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 96.75122                                 | Not Achieved      | BRIDGE             |                                      |
| 2590         | 2682            | 172.30481 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 87.88006                                 | Not Achieved      | BRIDGE             |                                      |
| 2600         | 2682            | 172.08473 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 82                      | 78.93587                                 | Not Achieved      | BRIDGE             |                                      |
| 2610         | 2682            | 171.8598  | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 72                      | 69.82725                                 | Not Achieved      | BRIDGE             |                                      |
| 2620         | 2682            | 171.6296  | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 62                      | 60.5232                                  | Not Achieved      | BRIDGE             |                                      |
| 2630         | 2682            | 171.4332  | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 52                      | 51.04936                                 | Not Achieved      | BRIDGE             |                                      |
| 2640         | 2682            | 171.29969 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 42                      | 41.43347                                 | Not Achieved      | BRIDGE             |                                      |
| 2650         | 2682            | 171.18909 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 32                      | 31.70488                                 | Not Achieved      | BRIDGE             |                                      |
| 2660         | 2682            | 171.07915 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 22                      | 21.87943                                 | Not Achieved      | BRIDGE             |                                      |
| 2670         | 2682            | 171.04328 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 12                      | 11.96987                                 | Not Achieved      | BRIDGE             |                                      |
| 2680         | 2682            | 171.03109 | 170.72502    | 170.72502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 2                       | 1.99995                                  | Not Achieved      | BRIDGE             |                                      |
| 2690         | 2788            | 169.7475  | 170.75484    | 170.75484    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 8                       | 68.1942                                  | Not Achieved      | BRIDGE             |                                      |
| 2700         | 2748            | 166.52838 | 170.76122    | 170.76122    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 18                      | 18.09211                                 | Not Achieved      | BRIDGE             |                                      |
| 2710         | 2744            | 166.9218  | 169.04395    | 169.04395    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 4                       | 4.04451                                  | Not Achieved      | BRIDGE             |                                      |
| 2720         | 2915            | 171.06634 | 174.95193    | 174.95193    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 148.2399                                 | Achieved          |                    | 100                                  |
| 2730         | 2925            | 171.045   | 175.89638    | 175.89638    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 149.71256                                | Achieved          |                    | 100                                  |
| 2740         | 2935            | 170.97336 | 176.89123    | 176.89123    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 151.44497                                | Achieved          |                    | 100                                  |
| 2750         | 2945            | 170.8805  | 177.88929    | 177.88929    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 153.41454                                | Achieved          |                    | 100                                  |
| 2760         | 2955            | 170.79972 | 178.88018    | 178.88018    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 155.61136                                | Achieved          |                    | 100                                  |
| 2770         | 2965            | 170.72553 | 179.88539    | 179.88539    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 157.75365                                | Achieved          |                    | 100                                  |
| 2780         | 2975            | 170.64228 | 180.94495    | 180.94495    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.70207                                | Achieved          |                    | 100                                  |
| 2790         | 2985            | 170.57791 | 182.03778    | 182.03778    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.25574                                | Achieved          |                    | 100                                  |
| 2800         | 2995            | 170.56635 | 183.08891    | 183.08891    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.39791                                | Achieved          |                    | 100                                  |
| 2810         | 3005            | 170.67504 | 184.12103    | 184.12103    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.19149                                | Achieved          |                    | 100                                  |
| 2820         | 3015            | 170.91731 | 185.11816    | 185.11816    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.6503                                 | Achieved          |                    | 100                                  |
| 2830         | 3025            | 171.2978  | 186.10342    | 186.10342    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.836                                  | Achieved          |                    | 100                                  |
| 2840         | 3035            | 171.78359 | 187.05611    | 187.05611    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.82674                                | Achieved          |                    | 100                                  |
| 2850         | 3045            | 172.30895 | 187.99295    | 187.99295    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.63809                                | Achieved          |                    | 100                                  |
| 2860         | 3055            | 173.10476 | 188.98269    | 188.98269    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.61672                                | Achieved          |                    | 100                                  |
| 2870         | 3065            | 173.94664 | 189.9312     | 189.9312     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.63212                                | Achieved          |                    | 100                                  |
| 2880         | 3075            | 174.81216 | 190.82434    | 190.82434    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.74249                                | Achieved          |                    | 100                                  |
| 2890         | 3085            | 175.70346 | 191.68246    | 191.68246    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.90833                                | Achieved          |                    | 100                                  |
| 2900         | 3095            | 176.69443 | 192.52522    | 192.52522    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.09166                                | Achieved          |                    | 100                                  |
| 2910         | 3105            | 177.68907 | 193.23115    | 193.23115    | 100          | 0.00%               | 0.00%         | 165                     |                        |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 3290         | 3455            | 195.70211 | 195.55733    | 195.55733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00366                                | Achieved          |                    | 100                                  |
| 3300         | 3465            | 195.67312 | 195.5556     | 195.5556     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00363                                | Achieved          |                    | 100                                  |
| 3310         | 3475            | 195.65823 | 195.5512     | 195.5512     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00361                                | Achieved          |                    | 100                                  |
| 3320         | 3485            | 195.63222 | 195.54715    | 195.54715    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0036                                 | Achieved          |                    | 100                                  |
| 3330         | 3495            | 195.62684 | 195.55128    | 195.55128    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00358                                | Achieved          |                    | 100                                  |
| 3340         | 3505            | 195.63814 | 195.55717    | 195.55717    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00358                                | Achieved          |                    | 100                                  |
| 3350         | 3515            | 195.65513 | 195.57637    | 195.57637    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00357                                | Achieved          |                    | 100                                  |
| 3360         | 3525            | 195.67125 | 195.59863    | 195.59863    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00357                                | Achieved          |                    | 100                                  |
| 3370         | 3535            | 195.68651 | 195.62503    | 195.62503    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00357                                | Achieved          |                    | 100                                  |
| 3380         | 3545            | 195.6998  | 195.66517    | 195.66517    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00358                                | Achieved          |                    | 100                                  |
| 3390         | 3555            | 195.6998  | 195.71011    | 195.71011    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00359                                | Achieved          |                    | 100                                  |
| 3400         | 3565            | 195.68021 | 195.77831    | 195.77831    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0036                                 | Achieved          |                    | 100                                  |
| 3410         | 3575            | 195.70923 | 195.87729    | 195.87729    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00362                                | Achieved          |                    | 100                                  |
| 3420         | 3585            | 195.742   | 195.98445    | 195.98445    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00364                                | Achieved          |                    | 100                                  |
| 3430         | 3595            | 195.7836  | 196.09578    | 196.09578    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00348                                | Achieved          |                    | 100                                  |
| 3440         | 3605            | 195.81463 | 196.19878    | 196.19878    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00199                                | Achieved          |                    | 100                                  |
| 3450         | 3615            | 195.85046 | 196.27751    | 196.27751    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00005                                | Achieved          |                    | 100                                  |
| 3460         | 3625            | 195.8593  | 196.31974    | 196.31974    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 3470         | 3635            | 195.8533  | 196.33388    | 196.33388    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 3480         | 3645            | 195.84724 | 196.36103    | 196.36103    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 3490         | 3655            | 195.8485  | 196.37307    | 196.37307    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 3500         | 3665            | 195.8524  | 196.353      | 196.353      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 3510         | 3675            | 195.86671 | 196.32102    | 196.32102    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 3520         | 3685            | 195.88782 | 196.30649    | 196.30649    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 3530         | 3695            | 195.91033 | 196.31303    | 196.31303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 3540         | 3705            | 195.94656 | 196.31072    | 196.31072    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 3550         | 3715            | 195.98636 | 196.29394    | 196.29394    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 3560         | 3725            | 196.03809 | 196.26458    | 196.26458    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 3570         | 3735            | 196.12788 | 196.24857    | 196.24857    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99583                                | Achieved          |                    | 100                                  |
| 3580         | 3745            | 196.22909 | 196.23645    | 196.23645    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99485                                | Achieved          |                    | 100                                  |
| 3590         | 3755            | 196.34048 | 196.20595    | 196.20595    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99481                                | Achieved          |                    | 100                                  |
| 3600         | 3765            | 196.44925 | 196.20345    | 196.20345    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99477                                | Achieved          |                    | 100                                  |
| 3610         | 3775            | 196.54256 | 196.22526    | 196.22526    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99474                                | Achieved          |                    | 100                                  |
| 3620         | 3785            | 196.60524 | 196.23964    | 196.23964    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99472                                | Achieved          |                    | 100                                  |
| 3630         | 3795            | 196.629   | 196.26398    | 196.26398    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9947                                 | Achieved          |                    | 100                                  |
| 3640         | 3805            | 196.64757 | 196.28178    | 196.28178    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99469                                | Achieved          |                    | 100                                  |
| 3650         | 3815            | 196.66996 | 196.30773    | 196.30773    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99469                                | Achieved          |                    | 100                                  |
| 3660         | 3825            | 196.66743 | 196.33782    | 196.33782    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99469                                | Achieved          |                    | 100                                  |
| 3670         | 3835            | 196.63563 | 196.37497    | 196.37497    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9947                                 | Achieved          |                    | 100                                  |
| 3680         | 3845            | 196.60618 | 196.43738    | 196.43738    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99472                                | Achieved          |                    | 100                                  |
| 3690         | 3855            | 196.61029 | 196.49549    | 196.49549    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99474                                | Achieved          |                    | 100                                  |
| 3700         | 3865            | 196.61454 | 196.56254    | 196.56254    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99478                                | Achieved          |                    | 100                                  |
| 3710         | 3875            | 196.60317 | 196.62988    | 196.62988    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99481                                | Achieved          |                    | 100                                  |
| 3720         | 3885            | 196.58234 | 196.66829    | 196.66829    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99486                                | Achieved          |                    | 100                                  |
| 3730         | 3895            | 196.55267 | 196.71628    | 196.71628    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99565                                | Achieved          |                    | 100                                  |
| 3740         | 3905            | 196.54364 | 196.76715    | 196.76715    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99439                                | Achieved          |                    | 100                                  |
| 3750         | 3915            | 196.51911 | 196.83498    | 196.83498    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98158                                | Achieved          |                    | 100                                  |
| 3760         | 3925            | 196.4961  | 196.89407    | 196.89407    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9679                                 | Achieved          |                    | 100                                  |
| 3770         | 3935            | 196.51443 | 196.96661    | 196.96661    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96134                                | Achieved          |                    | 100                                  |
| 3780         | 3945            | 196.53421 | 197.12707    | 197.12707    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91779                                | Achieved          |                    | 100                                  |
| 3790         | 3955            | 196.54984 | 197.39263    | 197.39263    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.86577                                | Achieved          |                    | 100                                  |
| 3800         | 3965            | 196.57036 | 197.82497    | 197.82497    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.84383                                | Achieved          |                    | 100                                  |
| 3810         | 3975            | 196.59696 | 198.43328    | 198.43328    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.797                                  | Achieved          |                    | 100                                  |
| 3820         | 3985            | 196.61988 | 199.15828    | 199.15828    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.74308                                | Achieved          |                    | 100                                  |
| 3830         | 3995            | 196.65392 | 199.99959    | 199.99959    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.68233                                | Achieved          |                    | 100                                  |
| 3840         | 4005            | 196.70579 | 200.94784    | 200.94784    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.63007                                | Achieved          |                    | 100                                  |
| 3850         | 4015            | 196.76431 | 201.94572    | 201.94572    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.59896                                | Achieved          |                    | 100                                  |
| 3860         | 4025            | 196.82837 | 202.93344    | 202.93344    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.57867                                | Achieved          |                    | 100                                  |
| 3870         | 4035            | 196.90098 | 203.83419    | 203.83419    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.57836                                | Achieved          |                    | 100                                  |
| 3880         | 4045            | 196.94932 | 204.67536    | 204.67536    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.61224                                | Achieved          |                    | 100                                  |
| 3890         | 4055            | 196.98464 | 205.40294    | 205.40294    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.66042                                | Achieved          |                    | 100                                  |
| 3900         | 4065            | 197.03989 | 206.03572    | 206.03572    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.71897                                | Achieved          |                    | 100                                  |
| 3910         | 4075            | 197.09972 | 206.58167    | 206.58167    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.77053                                | Achieved          |                    | 100                                  |
| 3920         | 4085            | 197.16865 | 207.08791    | 207.08791    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.81073                                | Achieved          |                    | 100                                  |
| 3930         | 4095            | 197.22347 | 207.52157    | 207.52157    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.84489                                | Achieved          |                    | 100                                  |
| 3940         | 4104            | 197.33893 | 207.75976    | 207.75976    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 163.88345                                | Relaxed           | Vertical alignment | 100                                  |
| 3950         | 4100            | 197.54106 | 207.67675    | 207.67675    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 150                     | 149.94005                                | Relaxed           | Vertical alignment | 100                                  |
| 3960         | 4096            | 197.88925 | 207.55873    | 207.55873    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 135.96124                                | Not Achieved      | Vertical alignment | 90                                   |
| 3970         | 4094            | 198.40806 | 207.48441    | 207.48441    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 123.98185                                | Not Achieved      | Vertical alignment | 90                                   |
| 3980         | 4092            | 199.0855  | 207.41008    | 207.41008    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 112.00925                                | Not Achieved      | Vertical alignment | 80                                   |
| 3990         | 4092            | 199.86329 | 207.41008    | 207.41008    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 102.03438                                | Not Achieved      | Vertical alignment | 80                                   |
| 4000         | 4096            | 200.76962 | 207.55873    | 207.55873    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 96.0509                                  | Not Achieved      | Vertical alignment | 70                                   |
| 4010         | 4102            | 201.73867 | 207.72918    | 207.72918    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 92.06152                                 | Not Achieved      | Vertical alignment | 70                                   |
| 4020         | 4110            | 202.75247 | 207.82176    | 207.82176    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 90.06333                                 | Not Achieved      | Vertical alignment | 70                                   |
| 4030         | 4116            | 203.68858 | 207.8195     | 207.8195     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 86                      | 86.03676                                 | Not Achieved      | Vertical alignment | 70                                   |
| 4040         | 4120            | 204.56396 | 207.78956    | 207.78956    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 80                      | 80.00012                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4050         | 4126            | 205.35641 | 207.7094     | 207.7094     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 75                      | 75.93772                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4060         | 4134            | 206.0346  | 207.54883    | 207.54883    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 74                      | 74.84652                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4070         | 4146            | 206.6188  | 207.21076    | 207.21076    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 76                      | 75.69815                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4080         | 4154            | 207.14273 | 206.46978    | 206.46978    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 83.54204                                 | Not Achieved      | Vertical alignment | 70                                   |
| 4090         | 4244            | 207.61929 | 202.49773    | 202.49773    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 153.27191                                | Achieved          | Vertical alignment | 100                                  |
| 4100         | 4265            | 207.97675 | 201.468      | 201.468      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.34914                                | Achieved          |                    | 100                                  |
| 4110         | 4275            | 208.12176 | 201.01438    | 201.01438    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.47238                                | A                 |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 4460         | 4625            | 198.8035  | 200.26531    | 200.26531    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0325                                 | Achieved          |                    | 100                                  |
| 4470         | 4635            | 198.6981  | 200.43342    | 200.43342    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04664                                | Achieved          |                    | 100                                  |
| 4480         | 4645            | 198.58194 | 200.49238    | 200.49238    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06107                                | Achieved          |                    | 100                                  |
| 4490         | 4655            | 198.47809 | 200.38858    | 200.38858    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07401                                | Achieved          |                    | 100                                  |
| 4500         | 4665            | 198.4255  | 200.14638    | 200.14638    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08332                                | Achieved          |                    | 100                                  |
| 4510         | 4668            | 198.3868  | 200.04791    | 200.04791    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 158                     | 158.08595                                | Relaxed           | Vertical alignment | 100                                  |
| 4520         | 4668            | 198.3718  | 200.04791    | 200.04791    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 148                     | 148.08741                                | Relaxed           | Vertical alignment | 100                                  |
| 4530         | 4668            | 198.36761 | 200.04791    | 200.04791    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 138                     | 138.08907                                | Not Achieved      | Vertical alignment | 90                                   |
| 4540         | 4666            | 198.3895  | 200.11779    | 200.11779    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 126                     | 126.08951                                | Not Achieved      | Vertical alignment | 90                                   |
| 4550         | 4666            | 198.46196 | 200.11779    | 200.11779    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 116.09154                                | Not Achieved      | Vertical alignment | 80                                   |
| 4560         | 4666            | 198.51304 | 200.11779    | 200.11779    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 106                     | 106.09295                                | Not Achieved      | Vertical alignment | 80                                   |
| 4570         | 4666            | 198.51808 | 200.11779    | 200.11779    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 96.09486                                 | Not Achieved      | Vertical alignment | 70                                   |
| 4580         | 4668            | 199.05639 | 200.04791    | 200.04791    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 88.10309                                 | Not Achieved      | Vertical alignment | 70                                   |
| 4590         | 4672            | 199.37432 | 199.89552    | 199.89552    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 82                      | 82.11184                                 | Not Achieved      | Vertical alignment | 70                                   |
| 4600         | 4678            | 199.7724  | 199.62942    | 199.62942    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 78.12079                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4610         | 4686            | 200.15264 | 199.22139    | 199.22139    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 76                      | 76.12946                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4620         | 4698            | 200.44946 | 198.46475    | 198.46475    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 78.13804                                 | Not Achieved      | Vertical alignment | 60                                   |
| 4630         | 4714            | 200.65605 | 197.32953    | 197.32953    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 84.14465                                 | Not Achieved      | Vertical alignment | 70                                   |
| 4640         | 4732            | 200.78994 | 195.53013    | 195.53013    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 92.10336                                 | Not Achieved      | Vertical alignment | 70                                   |
| 4650         | 4748            | 200.75964 | 193.60632    | 193.60632    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 97.86478                                 | Not Achieved      | Vertical alignment | 70                                   |
| 4660         | 4776            | 200.58579 | 189.99307    | 189.99307    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 115.24704                                | Not Achieved      | Vertical alignment | 80                                   |
| 4670         | 4835            | 200.27673 | 184.71688    | 184.71688    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.75274                                | Achieved          |                    | 100                                  |
| 4680         | 4845            | 199.8364  | 184.14827    | 184.14827    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.05823                                | Achieved          |                    | 100                                  |
| 4690         | 4855            | 199.73975 | 183.62118    | 183.62118    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.39387                                | Achieved          |                    | 100                                  |
| 4700         | 4865            | 198.63375 | 183.13521    | 183.13521    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.74461                                | Achieved          |                    | 100                                  |
| 4710         | 4875            | 197.94303 | 182.6632     | 182.6632     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9801                                 | Achieved          |                    | 100                                  |
| 4720         | 4885            | 197.89127 | 182.2625     | 182.2625     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.10844                                | Achieved          |                    | 100                                  |
| 4730         | 4895            | 196.05092 | 181.89879    | 181.89879    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.13927                                | Achieved          |                    | 100                                  |
| 4740         | 4905            | 194.90319 | 181.58703    | 181.58703    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.10169                                | Achieved          |                    | 100                                  |
| 4750         | 4915            | 193.64617 | 181.30822    | 181.30822    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03607                                | Achieved          |                    | 100                                  |
| 4760         | 4925            | 192.34248 | 181.04231    | 181.04231    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98803                                | Achieved          |                    | 100                                  |
| 4770         | 4935            | 191.0482  | 180.83761    | 180.83761    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99368                                | Achieved          |                    | 100                                  |
| 4780         | 4945            | 189.80437 | 180.64604    | 180.64604    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99364                                | Achieved          |                    | 100                                  |
| 4790         | 4955            | 188.63823 | 180.45083    | 180.45083    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99361                                | Achieved          |                    | 100                                  |
| 4800         | 4965            | 187.80606 | 180.22892    | 180.22892    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99359                                | Achieved          |                    | 100                                  |
| 4810         | 4975            | 186.71828 | 180.04661    | 180.04661    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98815                                | Achieved          |                    | 100                                  |
| 4820         | 4985            | 185.98458 | 179.85498    | 179.85498    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.95642                                | Achieved          |                    | 100                                  |
| 4830         | 4995            | 185.33632 | 179.68649    | 179.68649    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92018                                | Achieved          |                    | 100                                  |
| 4840         | 5005            | 184.71953 | 179.52301    | 179.52301    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.87675                                | Achieved          |                    | 100                                  |
| 4850         | 5015            | 184.17687 | 179.29752    | 179.29752    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.82417                                | Achieved          |                    | 100                                  |
| 4860         | 5025            | 183.66622 | 179.10923    | 179.10923    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.75008                                | Achieved          |                    | 100                                  |
| 4870         | 5035            | 183.19107 | 178.92226    | 178.92226    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.64875                                | Achieved          |                    | 100                                  |
| 4880         | 5045            | 182.75617 | 178.66734    | 178.66734    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.52384                                | Achieved          |                    | 100                                  |
| 4890         | 5055            | 182.37891 | 178.41722    | 178.41722    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.37489                                | Achieved          |                    | 100                                  |
| 4900         | 5065            | 182.04012 | 178.17822    | 178.17822    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.20733                                | Achieved          |                    | 100                                  |
| 4910         | 5075            | 181.74949 | 177.95066    | 177.95066    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.01214                                | Achieved          |                    | 100                                  |
| 4920         | 5085            | 181.46551 | 177.7516     | 177.7516     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.80047                                | Achieved          |                    | 100                                  |
| 4930         | 5095            | 181.24093 | 177.62596    | 177.62596    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.62026                                | Achieved          |                    | 100                                  |
| 4940         | 5105            | 181.03947 | 177.49559    | 177.49559    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.48446                                | Achieved          |                    | 100                                  |
| 4950         | 5115            | 180.85211 | 177.39151    | 177.39151    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.39288                                | Achieved          |                    | 100                                  |
| 4960         | 5125            | 180.64491 | 177.20273    | 177.20273    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.3502                                 | Achieved          |                    | 100                                  |
| 4970         | 5124            | 180.42885 | 177.2723     | 177.2723     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 152.51517                                | Relaxed           | Vertical alignment | 100                                  |
| 4980         | 5126            | 180.25443 | 177.13302    | 177.13302    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 144.67227                                | Relaxed           | Vertical alignment | 100                                  |
| 4990         | 5130            | 180.06501 | 174.84673    | 174.84673    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 138.81302                                | Not Achieved      | Vertical alignment | 90                                   |
| 5000         | 5136            | 179.9052  | 174.39382    | 174.39382    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 134.93608                                | Not Achieved      | Vertical alignment | 90                                   |
| 5010         | 5146            | 179.71132 | 173.51897    | 173.51897    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 135.02756                                | Not Achieved      | Vertical alignment | 90                                   |
| 5020         | 5144            | 179.49407 | 173.6972     | 173.6972     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 123.21817                                | Not Achieved      | Vertical alignment | 90                                   |
| 5030         | 5144            | 179.32893 | 173.6972     | 173.6972     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 113.38421                                | Not Achieved      | Vertical alignment | 80                                   |
| 5040         | 5148            | 179.09614 | 173.33431    | 173.33431    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 107.50296                                | Not Achieved      | Vertical alignment | 80                                   |
| 5050         | 5154            | 178.8377  | 172.74309    | 172.74309    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 104                     | 103.59387                                | Not Achieved      | Vertical alignment | 80                                   |
| 5060         | 5158            | 178.60067 | 172.30832    | 172.30832    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 97.67878                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5070         | 5164            | 178.31602 | 171.60457    | 171.60457    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 93.73761                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5080         | 5170            | 177.98991 | 170.86124    | 170.86124    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 89.78353                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5090         | 5178            | 177.61897 | 169.87765    | 169.87765    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 87.79931                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5100         | 5190            | 177.08302 | 168.42288    | 168.42288    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 89.77334                                 | Not Achieved      | Vertical alignment | 70                                   |
| 5110         | 5254            | 176.50255 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 143.43227                                | Relaxed           | Vertical alignment | 100                                  |
| 5120         | 5254            | 175.84954 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 133.49038                                | Not Achieved      | Vertical alignment | 90                                   |
| 5130         | 5254            | 175.14673 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 123.54625                                | Not Achieved      | BRIDGE             |                                      |
| 5140         | 5254            | 174.35352 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 113.60054                                | Not Achieved      | BRIDGE             |                                      |
| 5150         | 5254            | 173.48482 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 104                     | 103.65974                                | Not Achieved      | BRIDGE             |                                      |
| 5160         | 5254            | 172.38475 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 93.71256                                 | Not Achieved      | BRIDGE             |                                      |
| 5170         | 5254            | 171.16124 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 83.7596                                  | Not Achieved      | BRIDGE             |                                      |
| 5180         | 5254            | 169.93156 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 74                      | 73.80148                                 | Not Achieved      | BRIDGE             |                                      |
| 5190         | 5254            | 168.72288 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 64                      | 63.83882                                 | Not Achieved      | BRIDGE             |                                      |
| 5200         | 5254            | 167.46782 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 54                      | 53.87224                                 | Not Achieved      | BRIDGE             |                                      |
| 5210         | 5254            | 166.28998 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 44                      | 43.90234                                 | Not Achieved      | BRIDGE             |                                      |
| 5220         | 5254            | 165.16289 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 34                      | 33.92875                                 | Not Achieved      | BRIDGE             |                                      |
| 5230         | 5254            | 164.0796  | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 24                      | 23.95379                                 | Not Achieved      | BRIDGE             |                                      |
| 5240         | 5254            | 163.22027 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 14                      | 13.97357                                 | Not Achieved      | BRIDGE             |                                      |
| 5250         | 5254            | 162.73253 | 162.331      | 162.331      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 4                       | 3.9925                                   | Not Achieved      | BRIDGE             |                                      |
| 5270         | 5435            | 162.37192 | 168.33256    | 168.33256    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07326                                | Achieved          |                    | 100                                  |
| 5280         | 5445            | 162.22092 | 168.94623    | 168.94623    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.11084                                | Achieved          |                    | 100                                  |
| 5290         | 5455            | 162.0333  | 169.58661    | 169.58661    | 100          | 0.00%               | 0.00%         | 165                     |                        |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|-------------|--------------------------------------|
| 5640         | 5805            | 172.69527 | 173.60528    | 173.60528    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00724                                | Achieved          |             | 100                                  |
| 5650         | 5815            | 172.59768 | 173.72128    | 173.72128    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00724                                | Achieved          |             | 100                                  |
| 5660         | 5825            | 172.54738 | 173.85055    | 173.85055    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00724                                | Achieved          |             | 100                                  |
| 5670         | 5835            | 172.51201 | 173.96074    | 173.96074    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00724                                | Achieved          |             | 100                                  |
| 5680         | 5845            | 172.48027 | 174.06629    | 174.06629    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00724                                | Achieved          |             | 100                                  |
| 5690         | 5855            | 172.44944 | 174.14154    | 174.14154    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01886                                | Achieved          |             | 100                                  |
| 5700         | 5865            | 172.49035 | 174.15901    | 174.15901    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01859                                | Achieved          |             | 100                                  |
| 5710         | 5875            | 172.54649 | 174.1278     | 174.1278     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01835                                | Achieved          |             | 100                                  |
| 5720         | 5885            | 172.60411 | 174.05599    | 174.05599    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01815                                | Achieved          |             | 100                                  |
| 5730         | 5895            | 172.69426 | 173.99009    | 173.99009    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01790                                | Achieved          |             | 100                                  |
| 5740         | 5905            | 172.81313 | 173.94787    | 173.94787    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01854                                | Achieved          |             | 100                                  |
| 5750         | 5915            | 172.96113 | 173.92501    | 173.92501    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01948                                | Achieved          |             | 100                                  |
| 5760         | 5925            | 173.09292 | 173.86934    | 173.86934    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01946                                | Achieved          |             | 100                                  |
| 5770         | 5935            | 173.275   | 173.88888    | 173.88888    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01095                                | Achieved          |             | 100                                  |
| 5780         | 5945            | 173.44996 | 173.89173    | 173.89173    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01059                                | Achieved          |             | 100                                  |
| 5790         | 5955            | 173.63628 | 173.84034    | 173.84034    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01066                                | Achieved          |             | 100                                  |
| 5800         | 5965            | 173.82156 | 173.79778    | 173.79778    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01077                                | Achieved          |             | 100                                  |
| 5810         | 5975            | 173.9684  | 173.80578    | 173.80578    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01092                                | Achieved          |             | 100                                  |
| 5820         | 5985            | 174.08627 | 173.84967    | 173.84967    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01111                                | Achieved          |             | 100                                  |
| 5830         | 5995            | 174.20561 | 173.77329    | 173.77329    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01133                                | Achieved          |             | 100                                  |
| 5840         | 6005            | 174.31747 | 173.78743    | 173.78743    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01101                                | Achieved          |             | 100                                  |
| 5850         | 6015            | 174.41279 | 173.70022    | 173.70022    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99575                                | Achieved          |             | 100                                  |
| 5860         | 6025            | 174.45972 | 173.65156    | 173.65156    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99571                                | Achieved          |             | 100                                  |
| 5870         | 6035            | 174.45395 | 173.65117    | 173.65117    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99568                                | Achieved          |             | 100                                  |
| 5880         | 6045            | 174.36393 | 173.66055    | 173.66055    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99566                                | Achieved          |             | 100                                  |
| 5890         | 6055            | 174.33919 | 173.6535     | 173.6535     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99564                                | Achieved          |             | 100                                  |
| 5900         | 6065            | 174.28097 | 173.66842    | 173.66842    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99562                                | Achieved          |             | 100                                  |
| 5910         | 6075            | 174.23297 | 173.71841    | 173.71841    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99561                                | Achieved          |             | 100                                  |
| 5920         | 6085            | 174.20453 | 173.7908     | 173.7908     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99561                                | Achieved          |             | 100                                  |
| 5930         | 6095            | 174.16771 | 173.87619    | 173.87619    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9868                                 | Achieved          |             | 100                                  |
| 5940         | 6105            | 174.13998 | 173.97062    | 173.97062    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.95491                                | Achieved          |             | 100                                  |
| 5950         | 6115            | 174.10936 | 174.11974    | 174.11974    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.89358                                | Achieved          |             | 100                                  |
| 5960         | 6125            | 174.11558 | 174.3298     | 174.3298     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.7872                                 | Achieved          |             | 100                                  |
| 5970         | 6135            | 174.11189 | 174.57377    | 174.57377    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.6076                                 | Achieved          |             | 100                                  |
| 5980         | 6145            | 174.09149 | 174.75835    | 174.75835    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.32442                                | Achieved          |             | 100                                  |
| 5990         | 6155            | 174.10156 | 174.88251    | 174.88251    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.92242                                | Achieved          |             | 100                                  |
| 6000         | 6165            | 174.10422 | 174.91298    | 174.91298    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.38706                                | Achieved          |             | 100                                  |
| 6010         | 6175            | 174.04873 | 174.88182    | 174.88182    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.72915                                | Achieved          |             | 100                                  |
| 6020         | 6185            | 173.97299 | 174.84271    | 174.84271    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.11249                                | Achieved          |             | 100                                  |
| 6030         | 6195            | 173.97271 | 174.79782    | 174.79782    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.57061                                | Achieved          |             | 100                                  |
| 6040         | 6205            | 173.96989 | 174.79964    | 174.79964    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.11488                                | Achieved          |             | 100                                  |
| 6050         | 6215            | 173.9503  | 174.83359    | 174.83359    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.75938                                | Achieved          |             | 100                                  |
| 6060         | 6225            | 173.96013 | 174.91039    | 174.91039    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.5187                                 | Achieved          |             | 100                                  |
| 6070         | 6235            | 173.98747 | 175.01846    | 175.01846    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.40782                                | Achieved          |             | 100                                  |
| 6080         | 6245            | 174.04843 | 175.23521    | 175.23521    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.43971                                | Achieved          |             | 100                                  |
| 6090         | 6255            | 174.13198 | 175.49       | 175.49       | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.54892                                | Achieved          |             | 100                                  |
| 6100         | 6265            | 174.21405 | 175.69528    | 175.69528    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.75934                                | Achieved          |             | 100                                  |
| 6110         | 6275            | 174.33465 | 175.86948    | 175.86948    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.0426                                 | Achieved          |             | 100                                  |
| 6120         | 6285            | 174.514   | 175.99163    | 175.99163    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.35235                                | Achieved          |             | 100                                  |
| 6130         | 6295            | 174.75572 | 176.09169    | 176.09169    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.6345                                 | Achieved          |             | 100                                  |
| 6140         | 6305            | 174.97452 | 176.20351    | 176.20351    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.91555                                | Achieved          |             | 100                                  |
| 6150         | 6315            | 175.13927 | 176.23786    | 176.23786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.1983                                 | Achieved          |             | 100                                  |
| 6160         | 6325            | 175.20932 | 176.16261    | 176.16261    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.44301                                | Achieved          |             | 100                                  |
| 6170         | 6335            | 175.20073 | 176.06829    | 176.06829    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.63499                                | Achieved          |             | 100                                  |
| 6180         | 6345            | 175.15672 | 175.95872    | 175.95872    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.74134                                | Achieved          |             | 100                                  |
| 6190         | 6355            | 175.1199  | 175.82291    | 175.82291    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.85419                                | Achieved          |             | 100                                  |
| 6200         | 6365            | 175.09318 | 175.65704    | 175.65704    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.0098                                 | Achieved          |             | 100                                  |
| 6210         | 6375            | 175.11244 | 175.49637    | 175.49637    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.19967                                | Achieved          |             | 100                                  |
| 6220         | 6385            | 175.16675 | 175.32293    | 175.32293    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.41707                                | Achieved          |             | 100                                  |
| 6230         | 6395            | 175.25226 | 175.15376    | 175.15376    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.65574                                | Achieved          |             | 100                                  |
| 6240         | 6405            | 175.4166  | 175.02163    | 175.02163    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.8935                                 | Achieved          |             | 100                                  |
| 6250         | 6415            | 175.55863 | 174.88632    | 174.88632    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.14974                                | Achieved          |             | 100                                  |
| 6260         | 6425            | 175.69863 | 174.75233    | 174.75233    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.37043                                | Achieved          |             | 100                                  |
| 6270         | 6435            | 176.1099  | 174.6161     | 174.6161     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.52962                                | Achieved          |             | 100                                  |
| 6280         | 6445            | 176.22025 | 174.52147    | 174.52147    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.63101                                | Achieved          |             | 100                                  |
| 6290         | 6455            | 176.34746 | 174.47163    | 174.47163    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.68742                                | Achieved          |             | 100                                  |
| 6300         | 6465            | 176.45135 | 174.45956    | 174.45956    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.70054                                | Achieved          |             | 100                                  |
| 6310         | 6475            | 176.53943 | 174.4707     | 174.4707     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.66228                                | Achieved          |             | 100                                  |
| 6320         | 6485            | 176.51223 | 174.48923    | 174.48923    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.61867                                | Achieved          |             | 100                                  |
| 6330         | 6495            | 176.41694 | 174.52839    | 174.52839    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.57493                                | Achieved          |             | 100                                  |
| 6340         | 6505            | 176.31634 | 174.59294    | 174.59294    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.52782                                | Achieved          |             | 100                                  |
| 6350         | 6515            | 176.19579 | 174.63574    | 174.63574    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.44701                                | Achieved          |             | 100                                  |
| 6360         | 6525            | 176.03987 | 174.68594    | 174.68594    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.34964                                | Achieved          |             | 100                                  |
| 6370         | 6535            | 175.87854 | 174.74266    | 174.74266    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.23565                                | Achieved          |             | 100                                  |
| 6380         | 6545            | 175.71191 | 174.75071    | 174.75071    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.10597                                | Achieved          |             | 100                                  |
| 6390         | 6555            | 175.53425 | 174.75215    | 174.75215    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.96502                                | Achieved          |             | 100                                  |
| 6400         | 6565            | 175.3857  | 174.76138    | 174.76138    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.82297                                | Achieved          |             | 100                                  |
| 6410         | 6575            | 175.2575  | 174.73527    | 174.73527    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.71297                                | Achieved          |             | 100                                  |
| 6420         | 6585            | 175.11752 | 174.69819    | 174.69819    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.63783                                | Achieved          |             | 100                                  |
| 6430         | 6595            | 174.97672 | 174.66061    | 174.66061    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.59015                                | Achieved          |             | 100                                  |
| 6440         | 6605            | 174.86188 | 174.62912    | 174.62912    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.5794                                 | Achieved          |             | 100                                  |
| 6450         | 6615            | 174.79314 | 174.61346    | 174.61346    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.61053                                | Achieved          |             | 100                                  |
| 6460         | 6625            | 174.75883 | 174.58535    | 174.58535    | 100          | 0.00%               | 0.00%         | 16                      |                        |                         |  |                   |             |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 6810         | 6975            | 174.63315 | 174.24158    | 174.24158    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99195                                | Achieved          |                    | 100                                  |
| 6820         | 6985            | 174.60967 | 174.17139    | 174.17139    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99378                                | Achieved          |                    | 100                                  |
| 6830         | 6995            | 174.63748 | 174.14388    | 174.14388    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99378                                | Achieved          |                    | 100                                  |
| 6840         | 7005            | 174.68487 | 174.10802    | 174.10802    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9938                                 | Achieved          |                    | 100                                  |
| 6850         | 7015            | 174.70977 | 174.07342    | 174.07342    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99382                                | Achieved          |                    | 100                                  |
| 6860         | 7025            | 174.71096 | 174.02461    | 174.02461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99385                                | Achieved          |                    | 100                                  |
| 6870         | 7035            | 174.72561 | 173.97624    | 173.97624    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00343                                | Achieved          |                    | 100                                  |
| 6880         | 7045            | 174.74547 | 173.90516    | 173.90516    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04696                                | Achieved          |                    | 100                                  |
| 6890         | 7055            | 174.76164 | 173.81043    | 173.81043    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.10292                                | Achieved          |                    | 100                                  |
| 6900         | 7065            | 174.78545 | 173.71921    | 173.71921    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.12561                                | Achieved          |                    | 100                                  |
| 6910         | 7075            | 174.80255 | 173.64116    | 173.64116    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.09734                                | Achieved          |                    | 100                                  |
| 6920         | 7085            | 174.78116 | 173.5856     | 173.5856     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0077                                 | Achieved          |                    | 100                                  |
| 6930         | 7095            | 174.76516 | 173.52673    | 173.52673    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.84975                                | Achieved          |                    | 100                                  |
| 6940         | 7105            | 174.74511 | 173.44238    | 173.44238    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.62445                                | Achieved          |                    | 100                                  |
| 6950         | 7115            | 174.72498 | 173.40105    | 173.40105    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.35597                                | Achieved          |                    | 100                                  |
| 6960         | 7125            | 174.65761 | 173.39128    | 173.39128    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.02298                                | Achieved          |                    | 100                                  |
| 6970         | 7135            | 174.58177 | 173.38824    | 173.38824    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.73794                                | Achieved          |                    | 100                                  |
| 6980         | 7145            | 174.50193 | 173.40719    | 173.40719    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.52679                                | Achieved          |                    | 100                                  |
| 6990         | 7155            | 174.45307 | 173.47214    | 173.47214    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.41369                                | Achieved          |                    | 100                                  |
| 7000         | 7165            | 174.42873 | 173.54257    | 173.54257    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.40048                                | Achieved          |                    | 100                                  |
| 7010         | 7175            | 174.3901  | 173.4604     | 173.4604     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.48652                                | Achieved          |                    | 100                                  |
| 7020         | 7185            | 174.35276 | 173.10208    | 173.10208    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.67165                                | Achieved          |                    | 100                                  |
| 7030         | 7195            | 174.29953 | 172.44543    | 172.44543    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.9546                                 | Achieved          |                    | 100                                  |
| 7040         | 7194            | 174.24639 | 172.51414    | 172.51414    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 153.34311                                | Relaxed           | Vertical alignment | 100                                  |
| 7050         | 7194            | 174.15957 | 172.51414    | 172.51414    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 143.65589                                | Relaxed           | Vertical alignment | 100                                  |
| 7060         | 7194            | 174.06561 | 172.51414    | 172.51414    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 133.88033                                | Not Achieved      | Vertical alignment | 90                                   |
| 7070         | 7194            | 173.97316 | 172.51414    | 172.51414    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 124.02971                                | Not Achieved      | Vertical alignment | 90                                   |
| 7080         | 7194            | 173.91124 | 172.51414    | 172.51414    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 114.11241                                | Not Achieved      | Vertical alignment | 80                                   |
| 7090         | 7196            | 173.86141 | 172.37841    | 172.37841    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 106                     | 106.13721                                | Not Achieved      | Vertical alignment | 80                                   |
| 7100         | 7196            | 173.77993 | 172.37841    | 172.37841    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 96.11615                                 | Not Achieved      | Vertical alignment | 70                                   |
| 7110         | 7196            | 173.71861 | 172.37841    | 172.37841    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 86                      | 86.09593                                 | Not Achieved      | Vertical alignment | 70                                   |
| 7120         | 7198            | 173.6894  | 172.24725    | 172.24725    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 78.0285                                  | Not Achieved      | Vertical alignment | 60                                   |
| 7130         | 7200            | 173.68936 | 172.11556    | 172.11556    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 70                      | 70.00447                                 | Not Achieved      | Vertical alignment | 60                                   |
| 7140         | 7204            | 173.69595 | 171.87232    | 171.87232    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 64                      | 64                                       | Not Achieved      | Vertical alignment | 60                                   |
| 7150         | 7315            | 173.73471 | 168.24131    | 168.24131    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99619                                | Achieved          |                    | 100                                  |
| 7160         | 7325            | 173.81375 | 167.91084    | 167.91084    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99618                                | Achieved          |                    | 100                                  |
| 7170         | 7335            | 173.83211 | 167.58841    | 167.58841    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99617                                | Achieved          |                    | 100                                  |
| 7180         | 7345            | 173.82144 | 167.28127    | 167.28127    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99616                                | Achieved          |                    | 100                                  |
| 7190         | 7355            | 173.08616 | 167.00171    | 167.00171    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99616                                | Achieved          |                    | 100                                  |
| 7200         | 7365            | 172.41556 | 166.74631    | 166.74631    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99258                                | Achieved          |                    | 100                                  |
| 7210         | 7375            | 171.84396 | 166.48272    | 166.48272    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99113                                | Achieved          |                    | 100                                  |
| 7220         | 7385            | 171.39119 | 166.22462    | 166.22462    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99108                                | Achieved          |                    | 100                                  |
| 7230         | 7395            | 170.99852 | 165.99925    | 165.99925    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99383                                | Achieved          |                    | 100                                  |
| 7240         | 7405            | 170.63998 | 165.67137    | 165.67137    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00134                                | Achieved          |                    | 100                                  |
| 7250         | 7415            | 170.4093  | 165.37233    | 165.37233    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02554                                | Achieved          |                    | 100                                  |
| 7260         | 7425            | 170.20186 | 165.07893    | 165.07893    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00247                                | Achieved          |                    | 100                                  |
| 7270         | 7435            | 169.96111 | 164.79069    | 164.79069    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00241                                | Achieved          |                    | 100                                  |
| 7280         | 7445            | 169.687   | 164.50838    | 164.50838    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00606                                | Achieved          |                    | 100                                  |
| 7290         | 7455            | 169.40485 | 164.22785    | 164.22785    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00599                                | Achieved          |                    | 100                                  |
| 7300         | 7465            | 169.07577 | 163.96419    | 163.96419    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00713                                | Achieved          |                    | 100                                  |
| 7310         | 7475            | 168.72119 | 163.74655    | 163.74655    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00854                                | Achieved          |                    | 100                                  |
| 7320         | 7485            | 168.3765  | 163.56542    | 163.56542    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00992                                | Achieved          |                    | 100                                  |
| 7330         | 7495            | 168.04653 | 163.42893    | 163.42893    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01128                                | Achieved          |                    | 100                                  |
| 7340         | 7505            | 167.73309 | 163.29163    | 163.29163    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01262                                | Achieved          |                    | 100                                  |
| 7350         | 7515            | 167.43697 | 163.1525     | 163.1525     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01308                                | Achieved          |                    | 100                                  |
| 7360         | 7525            | 167.16921 | 163.0194     | 163.0194     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01467                                | Achieved          |                    | 100                                  |
| 7370         | 7535            | 166.91307 | 162.93621    | 162.93621    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.018                                  | Achieved          |                    | 100                                  |
| 7380         | 7545            | 166.64989 | 162.86299    | 162.86299    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01825                                | Achieved          |                    | 100                                  |
| 7390         | 7555            | 166.39502 | 162.79322    | 162.79322    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01886                                | Achieved          |                    | 100                                  |
| 7400         | 7565            | 166.11666 | 162.73258    | 162.73258    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01236                                | Achieved          |                    | 100                                  |
| 7410         | 7575            | 165.8231  | 162.69127    | 162.69127    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0074                                 | Achieved          |                    | 100                                  |
| 7420         | 7585            | 165.52593 | 162.66796    | 162.66796    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00742                                | Achieved          |                    | 100                                  |
| 7430         | 7595            | 165.23565 | 162.7353     | 162.7353     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00746                                | Achieved          |                    | 100                                  |
| 7440         | 7605            | 164.94779 | 162.76612    | 162.76612    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00852                                | Achieved          |                    | 100                                  |
| 7450         | 7615            | 164.66538 | 162.80224    | 162.80224    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01007                                | Achieved          |                    | 100                                  |
| 7460         | 7625            | 164.39675 | 162.86247    | 162.86247    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01118                                | Achieved          |                    | 100                                  |
| 7470         | 7635            | 164.1461  | 162.92053    | 162.92053    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00988                                | Achieved          |                    | 100                                  |
| 7480         | 7645            | 163.95415 | 162.92887    | 162.92887    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0084                                 | Achieved          |                    | 100                                  |
| 7490         | 7655            | 163.79267 | 162.89227    | 162.89227    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00692                                | Achieved          |                    | 100                                  |
| 7500         | 7665            | 163.66307 | 162.82666    | 162.82666    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00542                                | Achieved          |                    | 100                                  |
| 7510         | 7675            | 163.51815 | 162.75819    | 162.75819    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00404                                | Achieved          |                    | 100                                  |
| 7520         | 7685            | 163.37802 | 162.7232     | 162.7232     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00403                                | Achieved          |                    | 100                                  |
| 7530         | 7695            | 163.27449 | 162.74205    | 162.74205    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00686                                | Achieved          |                    | 100                                  |
| 7540         | 7705            | 163.20173 | 162.81707    | 162.81707    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00979                                | Achieved          |                    | 100                                  |
| 7550         | 7715            | 163.13326 | 162.95129    | 162.95129    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01221                                | Achieved          |                    | 100                                  |
| 7560         | 7725            | 163.06097 | 163.17571    | 163.17571    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01207                                | Achieved          |                    | 100                                  |
| 7570         | 7735            | 163.01099 | 163.47078    | 163.47078    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01197                                | Achieved          |                    | 100                                  |
| 7580         | 7745            | 162.98998 | 163.77164    | 163.77164    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01192                                | Achieved          |                    | 100                                  |
| 7590         | 7755            | 163.00683 | 164.04236    | 164.04236    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01119                                | Achieved          |                    | 100                                  |
| 7600         | 7765            | 163.05491 | 164.25807    | 164.25807    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01168                                | Achieved          |                    | 100                                  |
| 7610         | 7775            | 163.08257 | 164.36923    | 164.36923    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01022                                | Achieved          |                    | 100                                  |
| 7620         | 7785            | 163.12861 | 164.4019     | 164.4019     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00875                                | Achieved          |                    | 100                                  |
| 7630         | 7795            | 163.19763 | 164.40586    | 164.40586    | 10           |                     |               |                         |                        |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 7980         | 8058            | 171.90405 | 175.20878    | 175.20878    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 78                                       | Not Achieved      | Vertical alignment | 69                                   |
| 7990         | 8072            | 172.76915 | 175.23013    | 175.23013    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 82                      | 82                                       | Not Achieved      | Vertical alignment | 70                                   |
| 8000         | 8100            | 173.56248 | 175.23899    | 175.23899    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 99.9208                                  | Not Achieved      | Vertical alignment | 80                                   |
| 8010         | 8174            | 174.18664 | 174.9442     | 174.9442     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 163.99156                                | Relaxed           | Vertical alignment | 100                                  |
| 8020         | 8185            | 174.68703 | 174.88488    | 174.88488    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99157                                | Achieved          |                    | 100                                  |
| 8030         | 8195            | 175.05217 | 174.85818    | 174.85818    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9916                                 | Achieved          |                    | 100                                  |
| 8040         | 8205            | 175.33218 | 174.83143    | 174.83143    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98869                                | Achieved          |                    | 100                                  |
| 8050         | 8215            | 175.46819 | 174.79485    | 174.79485    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98871                                | Achieved          |                    | 100                                  |
| 8060         | 8225            | 175.51748 | 174.76166    | 174.76166    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98877                                | Achieved          |                    | 100                                  |
| 8070         | 8235            | 175.53279 | 174.69649    | 174.69649    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98886                                | Achieved          |                    | 100                                  |
| 8080         | 8245            | 175.52057 | 174.63006    | 174.63006    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98928                                | Achieved          |                    | 100                                  |
| 8090         | 8255            | 175.54132 | 174.56673    | 174.56673    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99312                                | Achieved          |                    | 100                                  |
| 8100         | 8265            | 175.53899 | 174.52249    | 174.52249    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99699                                | Achieved          |                    | 100                                  |
| 8110         | 8275            | 175.53942 | 174.48741    | 174.48741    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99698                                | Achieved          |                    | 100                                  |
| 8120         | 8285            | 175.50722 | 174.47499    | 174.47499    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99698                                | Achieved          |                    | 100                                  |
| 8130         | 8295            | 175.45544 | 174.4557     | 174.4557     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99698                                | Achieved          |                    | 100                                  |
| 8140         | 8305            | 175.39707 | 174.42126    | 174.42126    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99699                                | Achieved          |                    | 100                                  |
| 8150         | 8315            | 175.35116 | 174.35434    | 174.35434    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99699                                | Achieved          |                    | 100                                  |
| 8160         | 8325            | 175.29633 | 174.28471    | 174.28471    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.997                                  | Achieved          |                    | 100                                  |
| 8170         | 8335            | 175.26116 | 174.18598    | 174.18598    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99701                                | Achieved          |                    | 100                                  |
| 8180         | 8345            | 175.21433 | 174.1246     | 174.1246     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99703                                | Achieved          |                    | 100                                  |
| 8190         | 8355            | 175.1664  | 174.02675    | 174.02675    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99704                                | Achieved          |                    | 100                                  |
| 8200         | 8365            | 175.14855 | 173.89126    | 173.89126    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00248                                | Achieved          |                    | 100                                  |
| 8210         | 8375            | 175.10827 | 173.70773    | 173.70773    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0097                                 | Achieved          |                    | 100                                  |
| 8220         | 8385            | 175.08582 | 173.49792    | 173.49792    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01261                                | Achieved          |                    | 100                                  |
| 8230         | 8395            | 175.05325 | 173.28745    | 173.28745    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01234                                | Achieved          |                    | 100                                  |
| 8240         | 8405            | 174.95942 | 173.08698    | 173.08698    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0121                                 | Achieved          |                    | 100                                  |
| 8250         | 8415            | 174.90285 | 172.83969    | 172.83969    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01192                                | Achieved          |                    | 100                                  |
| 8260         | 8425            | 174.84321 | 172.58966    | 172.58966    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01288                                | Achieved          |                    | 100                                  |
| 8270         | 8435            | 174.80724 | 172.27364    | 172.27364    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01568                                | Achieved          |                    | 100                                  |
| 8280         | 8445            | 174.77371 | 171.83324    | 171.83324    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01841                                | Achieved          |                    | 100                                  |
| 8290         | 8455            | 174.77174 | 171.25205    | 171.25205    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02106                                | Achieved          |                    | 100                                  |
| 8300         | 8456            | 174.74088 | 171.18252    | 171.18252    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 156                     | 156.02146                                | Relaxed           | Vertical alignment | 100                                  |
| 8310         | 8458            | 174.69222 | 171.04351    | 171.04351    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 148                     | 148.02213                                | Relaxed           | Vertical alignment | 100                                  |
| 8320         | 8460            | 174.61967 | 170.91091    | 170.91091    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 140.02285                                | Not Achieved      | Vertical alignment | 90                                   |
| 8330         | 8462            | 174.52768 | 170.7667     | 170.7667     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 132.0236                                 | Not Achieved      | Vertical alignment | 90                                   |
| 8340         | 8464            | 174.4481  | 170.62352    | 170.62352    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 124.02442                                | Not Achieved      | Vertical alignment | 90                                   |
| 8350         | 8466            | 174.39299 | 170.48148    | 170.48148    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 116.02496                                | Not Achieved      | Vertical alignment | 80                                   |
| 8360         | 8470            | 174.26383 | 170.19759    | 170.19759    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 110.02293                                | Not Achieved      | Vertical alignment | 80                                   |
| 8370         | 8472            | 174.10608 | 170.05643    | 170.05643    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 102.01815                                | Not Achieved      | Vertical alignment | 80                                   |
| 8380         | 8478            | 173.90312 | 169.63397    | 169.63397    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 98.01316                                 | Not Achieved      | Vertical alignment | 70                                   |
| 8390         | 8488            | 173.69355 | 168.99086    | 168.99086    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 98.01241                                 | Not Achieved      | Vertical alignment | 70                                   |
| 8400         | 8565            | 173.482   | 166.57523    | 166.57523    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01213                                | Achieved          |                    | 100                                  |
| 8410         | 8575            | 173.25495 | 166.38823    | 166.38823    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01233                                | Achieved          |                    | 100                                  |
| 8420         | 8585            | 173.02216 | 166.22741    | 166.22741    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01258                                | Achieved          |                    | 100                                  |
| 8430         | 8595            | 172.74652 | 166.07894    | 166.07894    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0102                                 | Achieved          |                    | 100                                  |
| 8440         | 8605            | 172.38013 | 165.9329     | 165.9329     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00531                                | Achieved          |                    | 100                                  |
| 8450         | 8615            | 171.86068 | 165.85926    | 165.85926    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00237                                | Achieved          |                    | 100                                  |
| 8460         | 8625            | 171.21091 | 165.92196    | 165.92196    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99938                                | Achieved          |                    | 100                                  |
| 8470         | 8635            | 170.49759 | 166.01331    | 166.01331    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99793                                | Achieved          |                    | 100                                  |
| 8480         | 8645            | 169.79414 | 166.17841    | 166.17841    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99793                                | Achieved          |                    | 100                                  |
| 8490         | 8655            | 169.1203  | 166.42579    | 166.42579    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99792                                | Achieved          |                    | 100                                  |
| 8500         | 8665            | 168.65401 | 166.72758    | 166.72758    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99792                                | Achieved          |                    | 100                                  |
| 8510         | 8675            | 168.26542 | 167.12649    | 167.12649    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00493                                | Achieved          |                    | 100                                  |
| 8520         | 8685            | 167.91819 | 167.6215     | 167.6215     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00667                                | Achieved          |                    | 100                                  |
| 8530         | 8695            | 167.62936 | 168.11178    | 168.11178    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00657                                | Achieved          |                    | 100                                  |
| 8540         | 8705            | 167.40905 | 168.53909    | 168.53909    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00647                                | Achieved          |                    | 100                                  |
| 8550         | 8715            | 167.14966 | 168.91341    | 168.91341    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00646                                | Achieved          |                    | 100                                  |
| 8560         | 8725            | 166.95822 | 169.19594    | 169.19594    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99934                                | Achieved          |                    | 100                                  |
| 8570         | 8735            | 166.79135 | 169.38922    | 169.38922    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99404                                | Achieved          |                    | 100                                  |
| 8580         | 8745            | 166.64094 | 169.43653    | 169.43653    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98862                                | Achieved          |                    | 100                                  |
| 8590         | 8755            | 166.45464 | 169.39249    | 169.39249    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98296                                | Achieved          |                    | 100                                  |
| 8600         | 8765            | 166.30709 | 169.26282    | 169.26282    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97817                                | Achieved          |                    | 100                                  |
| 8610         | 8766            | 166.18021 | 169.24386    | 169.24386    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 156                     | 155.97844                                | Relaxed           | Vertical alignment | 100                                  |
| 8620         | 8764            | 166.17403 | 169.28044    | 169.28044    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 143.97966                                | Relaxed           | Vertical alignment | 100                                  |
| 8630         | 8764            | 166.26636 | 169.28044    | 169.28044    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 133.97967                                | Not Achieved      | Vertical alignment | 90                                   |
| 8640         | 8762            | 166.37776 | 169.31331    | 169.31331    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 121.98088                                | Not Achieved      | Vertical alignment | 90                                   |
| 8650         | 8762            | 166.59254 | 169.31331    | 169.31331    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 111.98088                                | Not Achieved      | Vertical alignment | 80                                   |
| 8660         | 8762            | 166.86666 | 169.31331    | 169.31331    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 101.98089                                | Not Achieved      | Vertical alignment | 80                                   |
| 8670         | 8764            | 167.19236 | 169.28044    | 169.28044    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 93.97639                                 | Not Achieved      | Vertical alignment | 70                                   |
| 8680         | 8770            | 167.66748 | 169.16764    | 169.16764    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 89.9672                                  | Not Achieved      | Vertical alignment | 70                                   |
| 8690         | 8780            | 168.17717 | 168.99219    | 168.99219    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 89.96381                                 | Not Achieved      | Vertical alignment | 70                                   |
| 8700         | 8796            | 168.63697 | 168.66591    | 168.66591    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 95.97167                                 | Not Achieved      | Vertical alignment | 70                                   |
| 8710         | 8875            | 169.03157 | 168.49408    | 168.49408    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98652                                | Achieved          |                    | 100                                  |
| 8720         | 8885            | 169.36597 | 168.75728    | 168.75728    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99141                                | Achieved          |                    | 100                                  |
| 8730         | 8895            | 169.61451 | 169.02393    | 169.02393    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99682                                | Achieved          |                    | 100                                  |
| 8740         | 8905            | 169.74025 | 169.42633    | 169.42633    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00034                                | Achieved          |                    | 100                                  |
| 8750         | 8915            | 169.72148 | 169.85278    | 169.85278    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00719                                | Achieved          |                    | 100                                  |
| 8760         | 8925            | 169.64617 | 170.31518    | 170.31518    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01241                                | Achieved          |                    | 100                                  |
| 8770         | 8935            | 169.46764 | 170.76134    | 170.76134    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01789                                | Achieved          |                    | 100                                  |
| 8780         | 8945            | 169.29219 | 171.21561    | 171.21561    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02122                                | Achieved          |                    | 100                                  |
| 8790         | 8955            | 169.11458 | 171.65594    | 171.65594    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01682                                | Achieved          |                    | 100                                  |
| 8800         | 8965            | 168.87633 |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 9150         | 9290            | 175.96541 | 174.103      | 174.103      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 139.99676                                | Not Achieved      | Vertical alignment | 90                                   |
| 9160         | 9292            | 175.98017 | 174.02806    | 174.02806    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 131.99618                                | Not Achieved      | Vertical alignment | 90                                   |
| 9170         | 9298            | 176.00647 | 173.80506    | 173.80506    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 127.99769                                | Not Achieved      | Vertical alignment | 90                                   |
| 9180         | 9304            | 175.99675 | 173.55905    | 173.55905    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 123.99992                                | Not Achieved      | Vertical alignment | 90                                   |
| 9190         | 9312            | 175.98622 | 173.22287    | 173.22287    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 122                                      | Not Achieved      | Vertical alignment | 90                                   |
| 9200         | 9334            | 175.96955 | 172.37952    | 172.37952    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134                                      | Not Achieved      | Vertical alignment | 90                                   |
| 9210         | 9375            | 175.95999 | 171.32611    | 171.32611    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00098                                | Achieved          |                    | 100                                  |
| 9220         | 9385            | 175.91329 | 171.18142    | 171.18142    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9230         | 9395            | 175.87621 | 171.03896    | 171.03896    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9240         | 9405            | 175.83963 | 170.90498    | 170.90498    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9250         | 9415            | 175.71313 | 170.74768    | 170.74768    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9260         | 9425            | 175.45657 | 170.61269    | 170.61269    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9270         | 9435            | 175.11055 | 170.42913    | 170.42913    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00097                                | Achieved          |                    | 100                                  |
| 9280         | 9445            | 174.75329 | 170.15952    | 170.15952    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99391                                | Achieved          |                    | 100                                  |
| 9290         | 9455            | 174.403   | 169.8133     | 169.8133     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99297                                | Achieved          |                    | 100                                  |
| 9300         | 9465            | 174.02956 | 169.39201    | 169.39201    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99287                                | Achieved          |                    | 100                                  |
| 9310         | 9475            | 173.60271 | 168.97008    | 168.97008    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99278                                | Achieved          |                    | 100                                  |
| 9320         | 9485            | 173.20177 | 168.52529    | 168.52529    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99271                                | Achieved          |                    | 100                                  |
| 9330         | 9495            | 172.81601 | 168.00736    | 168.00736    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99265                                | Achieved          |                    | 100                                  |
| 9340         | 9500            | 172.49354 | 167.74029    | 167.74029    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 160                     | 159.992                                  | Relaxed           | Vertical alignment | 100                                  |
| 9350         | 9500            | 172.18502 | 167.74029    | 167.74029    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 150                     | 149.99167                                | Relaxed           | Vertical alignment | 100                                  |
| 9360         | 9500            | 171.90959 | 167.74029    | 167.74029    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 139.99169                                | Not Achieved      | Vertical alignment | 90                                   |
| 9370         | 9504            | 171.70961 | 167.51798    | 167.51798    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 133.9917                                 | Not Achieved      | Vertical alignment | 90                                   |
| 9380         | 9508            | 171.54884 | 167.29218    | 167.29218    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 127.99172                                | Not Achieved      | Vertical alignment | 90                                   |
| 9390         | 9524            | 171.41414 | 166.46685    | 166.46685    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 133.99173                                | Not Achieved      | Vertical alignment | 90                                   |
| 9400         | 9565            | 171.27705 | 164.83458    | 164.83458    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99783                                | Achieved          |                    | 100                                  |
| 9410         | 9575            | 171.12751 | 164.59102    | 164.59102    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99786                                | Achieved          |                    | 100                                  |
| 9420         | 9585            | 170.97544 | 164.36462    | 164.36462    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99789                                | Achieved          |                    | 100                                  |
| 9430         | 9595            | 170.83323 | 164.18726    | 164.18726    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99793                                | Achieved          |                    | 100                                  |
| 9440         | 9605            | 170.6964  | 164.05947    | 164.05947    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00123                                | Achieved          |                    | 100                                  |
| 9450         | 9615            | 170.3028  | 163.87403    | 163.87403    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00568                                | Achieved          |                    | 100                                  |
| 9460         | 9625            | 169.91056 | 163.69686    | 163.69686    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00026                                | Achieved          |                    | 100                                  |
| 9470         | 9635            | 169.48272 | 163.54941    | 163.54941    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00026                                | Achieved          |                    | 100                                  |
| 9480         | 9645            | 169.05357 | 163.42921    | 163.42921    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00027                                | Achieved          |                    | 100                                  |
| 9490         | 9655            | 168.57812 | 163.32667    | 163.32667    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00028                                | Achieved          |                    | 100                                  |
| 9500         | 9665            | 168.04029 | 163.20508    | 163.20508    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00028                                | Achieved          |                    | 100                                  |
| 9510         | 9675            | 167.48158 | 163.10269    | 163.10269    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00029                                | Achieved          |                    | 100                                  |
| 9520         | 9685            | 166.96855 | 162.95862    | 162.95862    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0003                                 | Achieved          |                    | 100                                  |
| 9530         | 9695            | 166.46226 | 162.78378    | 162.78378    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00031                                | Achieved          |                    | 100                                  |
| 9540         | 9705            | 165.99681 | 162.58956    | 162.58956    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99716                                | Achieved          |                    | 100                                  |
| 9550         | 9715            | 165.58631 | 162.41403    | 162.41403    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99419                                | Achieved          |                    | 100                                  |
| 9560         | 9725            | 165.26494 | 162.28923    | 162.28923    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9942                                 | Achieved          |                    | 100                                  |
| 9570         | 9735            | 165.0117  | 162.18902    | 162.18902    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99832                                | Achieved          |                    | 100                                  |
| 9580         | 9745            | 164.7534  | 162.10029    | 162.10029    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00192                                | Achieved          |                    | 100                                  |
| 9590         | 9755            | 164.56124 | 162.02542    | 162.02542    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00376                                | Achieved          |                    | 100                                  |
| 9600         | 9765            | 164.42248 | 161.9804     | 161.9804     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00983                                | Achieved          |                    | 100                                  |
| 9610         | 9775            | 164.26992 | 161.97432    | 161.97432    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00777                                | Achieved          |                    | 100                                  |
| 9620         | 9785            | 164.08399 | 161.9404     | 161.9404     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00176                                | Achieved          |                    | 100                                  |
| 9630         | 9795            | 163.91946 | 161.90066    | 161.90066    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00632                                | Achieved          |                    | 100                                  |
| 9640         | 9805            | 163.78888 | 161.91336    | 161.91336    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00709                                | Achieved          |                    | 100                                  |
| 9650         | 9815            | 163.67751 | 161.89523    | 161.89523    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03422                                | Achieved          |                    | 100                                  |
| 9660         | 9825            | 163.58882 | 161.86905    | 161.86905    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98797                                | Achieved          |                    | 100                                  |
| 9670         | 9835            | 163.44624 | 161.83085    | 161.83085    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92414                                | Achieved          |                    | 100                                  |
| 9680         | 9845            | 163.33241 | 161.80049    | 161.80049    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.85713                                | Achieved          |                    | 100                                  |
| 9690         | 9855            | 163.1852  | 161.76916    | 161.76916    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.80971                                | Achieved          |                    | 100                                  |
| 9700         | 9865            | 162.97904 | 161.7499     | 161.7499     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.78646                                | Achieved          |                    | 100                                  |
| 9710         | 9875            | 162.79279 | 161.70612    | 161.70612    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.79017                                | Achieved          |                    | 100                                  |
| 9720         | 9885            | 162.65262 | 161.67716    | 161.67716    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.81698                                | Achieved          |                    | 100                                  |
| 9730         | 9895            | 162.54055 | 161.69996    | 161.69996    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.86553                                | Achieved          |                    | 100                                  |
| 9740         | 9905            | 162.44202 | 161.68543    | 161.68543    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92248                                | Achieved          |                    | 100                                  |
| 9750         | 9915            | 162.36137 | 161.65659    | 161.65659    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98107                                | Achieved          |                    | 100                                  |
| 9760         | 9925            | 162.29533 | 161.61487    | 161.61487    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03071                                | Achieved          |                    | 100                                  |
| 9770         | 9935            | 162.28142 | 161.59474    | 161.59474    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06385                                | Achieved          |                    | 100                                  |
| 9780         | 9945            | 162.25557 | 161.58226    | 161.58226    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07285                                | Achieved          |                    | 100                                  |
| 9790         | 9955            | 162.20422 | 161.54526    | 161.54526    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08237                                | Achieved          |                    | 100                                  |
| 9800         | 9965            | 162.21542 | 161.53828    | 161.53828    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07793                                | Achieved          |                    | 100                                  |
| 9810         | 9975            | 162.20686 | 161.55899    | 161.55899    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06125                                | Achieved          |                    | 100                                  |
| 9820         | 9985            | 162.18314 | 161.56985    | 161.56985    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.035                                  | Achieved          |                    | 100                                  |
| 9840         | 10005           | 162.113   | 161.64929    | 161.64929    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99755                                | Achieved          |                    | 100                                  |
| 9850         | 10015           | 162.08677 | 161.67708    | 161.67708    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99728                                | Achieved          |                    | 100                                  |
| 9860         | 10025           | 162.05655 | 161.75038    | 161.75038    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99726                                | Achieved          |                    | 100                                  |
| 9870         | 10035           | 162.02952 | 161.84192    | 161.84192    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99611                                | Achieved          |                    | 100                                  |
| 9880         | 10045           | 161.98278 | 161.98986    | 161.98986    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99962                                | Achieved          |                    | 100                                  |
| 9890         | 10055           | 161.98135 | 162.20677    | 162.20677    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01499                                | Achieved          |                    | 100                                  |
| 9900         | 10065           | 161.99651 | 162.4444     | 162.4444     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03032                                | Achieved          |                    | 100                                  |
| 9910         | 10075           | 161.96834 | 162.69769    | 162.69769    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04546                                | Achieved          |                    | 100                                  |
| 9920         | 10085           | 161.94014 | 162.91162    | 162.91162    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05567                                | Achieved          |                    | 100                                  |
| 9930         | 10095           | 161.90503 | 163.11566    | 163.11566    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06099                                | Achieved          |                    | 100                                  |
| 9940         | 10105           | 161.89042 | 163.32836    | 163.32836    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06743                                | Achieved          |                    | 100                                  |
| 9950         | 10115           | 161.85221 | 163.51767    | 163.51767    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06756                                | Achieved          |                    | 100                                  |
| 9960         | 10125           | 161.8347  | 163.72888    | 163.72888    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05638                                | Achieved          |                    | 100                                  |
| 9970         | 10135           | 161.86604 | 163.98873    | 163.98873    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04092                                | Achieved          |                    | 100                                  |
| 9980         | 10145           | 161.84905 | 164.25078    |              |              |                     |               |                         |                        |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction                     | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|---------------------------------|--------------------------------------|
| 10340        | 10484           | 172.91844 | 175.3193     | 175.3193     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 143.90109                                | Relaxed           | Vertical alignment              | 100                                  |
| 10350        | 10486           | 173.21182 | 175.25175    | 175.25175    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 135.9144                                 | Not Achieved      | Vertical alignment              | 90                                   |
| 10360        | 10486           | 173.52375 | 175.25175    | 175.25175    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 126                     | 125.92709                                | Not Achieved      | Vertical alignment              | 90                                   |
| 10370        | 10488           | 173.78936 | 175.18243    | 175.18243    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 118                     | 117.93735                                | Not Achieved      | Vertical alignment              | 80                                   |
| 10380        | 10490           | 174.07215 | 175.10802    | 175.10802    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 109.94212                                | Not Achieved      | Vertical alignment              | 80                                   |
| 10390        | 10492           | 174.33681 | 175.02257    | 175.02257    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 101.94685                                | Not Achieved      | Vertical alignment              | 80                                   |
| 10400        | 10494           | 174.58366 | 174.93712    | 174.93712    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 93.95155                                 | Not Achieved      | Vertical alignment              | 70                                   |
| 10410        | 10496           | 174.85458 | 174.84104    | 174.84104    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 86                      | 85.95623                                 | Not Achieved      | Vertical alignment              | 70                                   |
| 10420        | 10500           | 175.15546 | 174.6425     | 174.6425     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 80                      | 79.96056                                 | Not Achieved      | Vertical alignment              | 80                                   |
| 10430        | 10506           | 175.42568 | 174.33086    | 174.33086    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 75.96455                                 | Not Achieved      | Vertical alignment              | 80                                   |
| 10440        | 10524           | 175.64666 | 173.52065    | 173.52065    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 83.96932                                 | Not Achieved      | Vertical alignment              | 70                                   |
| 10450        | 10615           | 175.80419 | 173.68582    | 173.68582    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.977                                  | Achieved          |                                 | 100                                  |
| 10460        | 10625           | 175.90452 | 174.08578    | 174.08578    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98594                                | Achieved          |                                 | 100                                  |
| 10470        | 10635           | 175.92316 | 174.53186    | 174.53186    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99449                                | Achieved          |                                 | 100                                  |
| 10480        | 10645           | 175.73189 | 175.0087     | 175.0087     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99627                                | Achieved          |                                 | 100                                  |
| 10490        | 10655           | 175.40802 | 175.50269    | 175.50269    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99629                                | Achieved          |                                 | 100                                  |
| 10500        | 10665           | 174.9425  | 175.99174    | 175.99174    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99655                                | Achieved          |                                 | 100                                  |
| 10510        | 10675           | 174.42706 | 176.46878    | 176.46878    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99757                                | Achieved          |                                 | 100                                  |
| 10520        | 10685           | 173.97614 | 176.88001    | 176.88001    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03223                                | Achieved          |                                 | 100                                  |
| 10530        | 10695           | 173.61464 | 177.33918    | 177.33918    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07053                                | Achieved          |                                 | 100                                  |
| 10540        | 10705           | 173.31187 | 177.69797    | 177.69797    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.09545                                | Achieved          |                                 | 100                                  |
| 10550        | 10715           | 173.09045 | 177.93049    | 177.93049    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.10207                                | Achieved          |                                 | 100                                  |
| 10560        | 10725           | 173.01428 | 178.12058    | 178.12058    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07889                                | Achieved          |                                 | 100                                  |
| 10570        | 10735           | 173.05238 | 178.28785    | 178.28785    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02146                                | Achieved          |                                 | 100                                  |
| 10580        | 10745           | 173.17225 | 178.4176     | 178.4176     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97511                                | Achieved          |                                 | 100                                  |
| 10590        | 10755           | 173.26934 | 178.59601    | 178.59601    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92307                                | Achieved          |                                 | 100                                  |
| 10600        | 10765           | 173.59901 | 178.77973    | 178.77973    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.86602                                | Achieved          |                                 | 100                                  |
| 10610        | 10775           | 173.80139 | 178.93344    | 178.93344    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.82622                                | Achieved          |                                 | 100                                  |
| 10620        | 10778           | 174.18422 | 178.97547    | 178.97547    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 158                     | 157.82662                                | Relaxed           | Vertical alignment              | 100                                  |
| 10630        | 10784           | 174.60167 | 179.06554    | 179.06554    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 153.81093                                | Relaxed           | Vertical alignment              | 100                                  |
| 10640        | 10800           | 175.06553 | 179.35206    | 179.35206    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 160                     | 159.70909                                | Relaxed           | Vertical alignment              | 100                                  |
| 10650        | 10815           | 175.5528  | 179.59713    | 179.59713    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.56336                                | Achieved          |                                 | 100                                  |
| 10660        | 10825           | 176.04938 | 179.73663    | 179.73663    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.45782                                | Achieved          |                                 | 100                                  |
| 10670        | 10835           | 176.53576 | 179.83082    | 179.83082    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.33232                                | Achieved          |                                 | 100                                  |
| 10680        | 10845           | 176.97221 | 179.8867     | 179.8867     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.1744                                 | Achieved          |                                 | 100                                  |
| 10690        | 10852           | 177.42464 | 179.90806    | 179.90806    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 161.01519                                | Relaxed           | Inside Curve/Vertical Alignment | 100                                  |
| 10700        | 10854           | 177.83793 | 179.91156    | 179.91156    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 152.94155                                | Relaxed           | Inside Curve/Vertical Alignment | 100                                  |
| 10710        | 10860           | 178.13234 | 179.90498    | 179.90498    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 150                     | 148.81756                                | Relaxed           | Inside Curve/Vertical Alignment | 100                                  |
| 10720        | 10866           | 178.31582 | 179.87563    | 179.87563    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 144.73165                                | Relaxed           | Inside Curve/Vertical Alignment | 100                                  |
| 10730        | 10874           | 178.51373 | 179.7888     | 179.7888     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 142.69738                                | Relaxed           | Inside Curve/Vertical Alignment | 100                                  |
| 10740        | 10884           | 178.65118 | 179.61514    | 179.61514    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 142.67095                                | Relaxed           | Inside Curve/Vertical Alignment | 100                                  |
| 10750        | 10894           | 178.79851 | 179.41937    | 179.41937    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 142.65186                                | Relaxed           | Inside Curve/Vertical Alignment | 100                                  |
| 10760        | 10900           | 178.95229 | 179.30806    | 179.30806    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 138.7715                                 | Not Achieved      | Inside Curve/Vertical Alignment | 90                                   |
| 10770        | 10906           | 179.16164 | 179.16131    | 179.16131    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 134.8727                                 | Not Achieved      | Inside Curve/Vertical Alignment | 90                                   |
| 10780        | 10910           | 179.38013 | 179.05613    | 179.05613    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 128.99177                                | Not Achieved      | Inside Curve/Vertical Alignment | 90                                   |
| 10790        | 10918           | 179.46879 | 178.84418    | 178.84418    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 126.99886                                | Not Achieved      | Inside Curve/Vertical Alignment | 90                                   |
| 10800        | 10928           | 179.65206 | 178.57757    | 178.57757    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 126.93004                                | Not Achieved      | Inside Curve/Vertical Alignment | 90                                   |
| 10810        | 10942           | 179.81855 | 178.13095    | 178.13095    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 130.71423                                | Not Achieved      | Inside Curve/Vertical Alignment | 90                                   |
| 10820        | 10948           | 179.97214 | 177.91475    | 177.91475    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 126.70875                                | Not Achieved      | Inside Curve/Vertical Alignment | 90                                   |
| 10830        | 10956           | 180.09202 | 177.61263    | 177.61263    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 126                     | 124.69465                                | Not Achieved      | Inside Curve/Vertical Alignment | 90                                   |
| 10840        | 10964           | 180.19399 | 177.31874    | 177.31874    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 122.71619                                | Not Achieved      | Inside Curve/Vertical Alignment | 90                                   |
| 10850        | 10976           | 180.2041  | 176.87827    | 176.87827    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 126                     | 124.72001                                | Not Achieved      | Inside Curve/Vertical Alignment | 90                                   |
| 10860        | 10994           | 180.20498 | 176.20787    | 176.20787    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 132.73302                                | Not Achieved      | Inside Curve/Vertical Alignment | 90                                   |
| 10870        | 11022           | 180.13822 | 175.23297    | 175.23297    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 150.80395                                | Relaxed           | Inside Curve/Vertical Alignment | 100                                  |
| 10880        | 11045           | 179.99144 | 174.50343    | 174.50343    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.98679                                | Achieved          |                                 | 100                                  |
| 10890        | 11055           | 179.78906 | 174.18601    | 174.18601    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.23308                                | Achieved          |                                 | 100                                  |
| 10900        | 11065           | 179.60806 | 173.89983    | 173.89983    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.44123                                | Achieved          |                                 | 100                                  |
| 10910        | 11075           | 179.35613 | 173.6029     | 173.6029     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.61057                                | Achieved          |                                 | 100                                  |
| 10920        | 11085           | 179.09046 | 173.2672     | 173.2672     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.74149                                | Achieved          |                                 | 100                                  |
| 10930        | 11095           | 178.82118 | 172.89735    | 172.89735    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.83668                                | Achieved          |                                 | 100                                  |
| 10940        | 11105           | 178.48881 | 172.49428    | 172.49428    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.81149                                | Achieved          |                                 | 100                                  |
| 10950        | 11115           | 178.13956 | 172.11068    | 172.11068    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.84316                                | Achieved          |                                 | 100                                  |
| 10960        | 11125           | 177.78489 | 171.80883    | 171.80883    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99226                                | Achieved          |                                 | 100                                  |
| 10970        | 11135           | 177.40151 | 171.47482    | 171.47482    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97395                                | Achieved          |                                 | 100                                  |
| 10980        | 11145           | 177.02652 | 171.14784    | 171.14784    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98768                                | Achieved          |                                 | 100                                  |
| 10990        | 11155           | 176.65272 | 170.8468     | 170.8468     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99223                                | Achieved          |                                 | 100                                  |
| 11000        | 11165           | 176.28938 | 170.54565    | 170.54565    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99222                                | Achieved          |                                 | 100                                  |
| 11010        | 11175           | 175.93063 | 170.23417    | 170.23417    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99221                                | Achieved          |                                 | 100                                  |
| 11020        | 11185           | 175.5996  | 169.91575    | 169.91575    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99223                                | Achieved          |                                 | 100                                  |
| 11030        | 11195           | 175.27699 | 169.63053    | 169.63053    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99225                                | Achieved          |                                 | 100                                  |
| 11040        | 11205           | 174.96682 | 169.3798     | 169.3798     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99229                                | Achieved          |                                 | 100                                  |
| 11050        | 11215           | 174.64188 | 169.14024    | 169.14024    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99235                                | Achieved          |                                 | 100                                  |
| 11060        | 11225           | 174.34151 | 168.91506    | 168.91506    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99242                                | Achieved          |                                 | 100                                  |
| 11070        | 11235           | 174.05713 | 168.72229    | 168.72229    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9925                                 | Achieved          |                                 | 100                                  |
| 11080        | 11245           | 173.73527 | 168.53578    | 168.53578    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9926                                 | Achieved          |                                 | 100                                  |
| 11090        | 11255           | 173.38567 | 168.35861    | 168.35861    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00024                                | Achieved          |                                 | 100                                  |
| 11100        | 11265           | 173.09955 | 168.18596    | 168.18596    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03331                                | Achieved          |                                 | 100                                  |
| 11110        | 11275           | 172.78823 | 167.94227    | 167.94227    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07852                                | Achieved          |                                 | 100                                  |
| 11120        | 11285           | 172.45588 | 167.66188    | 167.66188    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.12447                                | Achieved          |                                 | 100                                  |
| 11130        | 11295           | 172.14371 | 167.32803    | 167.32803    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.13021                                | Achieved          |                                 | 100                                  |
| 11140        | 11305           | 171.80829 | 166.95575    | 166.95575    | 100          | 0                   |               |                         |                        |                         |  |                   |                                 |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|-------------|--------------------------------------|
| 11510        | 11675           | 166.31826 | 167.99452    | 167.99452    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                  |
| 11520        | 11685           | 166.44421 | 168.07439    | 168.07439    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                  |
| 11530        | 11695           | 166.56295 | 168.14457    | 168.14457    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11540        | 11705           | 166.67244 | 168.23168    | 168.23168    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11550        | 11715           | 166.76897 | 168.33018    | 168.33018    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11560        | 11725           | 166.85804 | 168.42442    | 168.42442    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11570        | 11735           | 166.96848 | 168.51936    | 168.51936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11580        | 11745           | 167.0982  | 168.60658    | 168.60658    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11590        | 11755           | 167.20046 | 168.66782    | 168.66782    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11600        | 11765           | 167.31688 | 168.70023    | 168.70023    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11610        | 11775           | 167.43598 | 168.72685    | 168.72685    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11620        | 11785           | 167.56838 | 168.76723    | 168.76723    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11630        | 11795           | 167.71598 | 168.82443    | 168.82443    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11640        | 11805           | 167.8569  | 168.88156    | 168.88156    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11650        | 11815           | 168.00205 | 168.94054    | 168.94054    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11660        | 11825           | 168.13332 | 169.00955    | 169.00955    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99982                                | Achieved          |             | 100                                  |
| 11670        | 11835           | 168.25036 | 169.07321    | 169.07321    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9989                                 | Achieved          |             | 100                                  |
| 11680        | 11845           | 168.33768 | 169.13437    | 169.13437    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99716                                | Achieved          |             | 100                                  |
| 11690        | 11855           | 168.40689 | 169.19266    | 169.19266    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9973                                 | Achieved          |             | 100                                  |
| 11700        | 11865           | 168.48422 | 169.24782    | 169.24782    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99732                                | Achieved          |             | 100                                  |
| 11710        | 11875           | 168.58173 | 169.28386    | 169.28386    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99731                                | Achieved          |             | 100                                  |
| 11720        | 11885           | 168.67886 | 169.27867    | 169.27867    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9973                                 | Achieved          |             | 100                                  |
| 11730        | 11895           | 168.77044 | 169.24525    | 169.24525    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9973                                 | Achieved          |             | 100                                  |
| 11740        | 11905           | 168.86915 | 169.20549    | 169.20549    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99729                                | Achieved          |             | 100                                  |
| 11750        | 11915           | 168.94231 | 169.1656     | 169.1656     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99729                                | Achieved          |             | 100                                  |
| 11760        | 11925           | 168.98463 | 169.1131     | 169.1131     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99729                                | Achieved          |             | 100                                  |
| 11770        | 11935           | 169.01287 | 169.05773    | 169.05773    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99729                                | Achieved          |             | 100                                  |
| 11780        | 11945           | 169.04099 | 169.00819    | 169.00819    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9973                                 | Achieved          |             | 100                                  |
| 11790        | 11955           | 169.0948  | 168.94965    | 168.94965    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9973                                 | Achieved          |             | 100                                  |
| 11800        | 11965           | 169.15438 | 168.94383    | 168.94383    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99731                                | Achieved          |             | 100                                  |
| 11810        | 11975           | 169.20739 | 168.93605    | 168.93605    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99732                                | Achieved          |             | 100                                  |
| 11820        | 11985           | 169.27722 | 168.95218    | 168.95218    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00275                                | Achieved          |             | 100                                  |
| 11830        | 11995           | 169.34321 | 169.00504    | 169.00504    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0045                                 | Achieved          |             | 100                                  |
| 11840        | 12005           | 169.40446 | 169.05945    | 169.05945    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00705                                | Achieved          |             | 100                                  |
| 11850        | 12015           | 169.46306 | 169.10751    | 169.10751    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00898                                | Achieved          |             | 100                                  |
| 11860        | 12025           | 169.51938 | 169.17668    | 169.17668    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00891                                | Achieved          |             | 100                                  |
| 11870        | 12035           | 169.57664 | 169.27892    | 169.27892    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00686                                | Achieved          |             | 100                                  |
| 11880        | 12045           | 169.59847 | 169.38873    | 169.38873    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00683                                | Achieved          |             | 100                                  |
| 11890        | 12055           | 169.56601 | 169.4957     | 169.4957     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00681                                | Achieved          |             | 100                                  |
| 11900        | 12065           | 169.52414 | 169.63056    | 169.63056    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0068                                 | Achieved          |             | 100                                  |
| 11910        | 12075           | 169.49067 | 169.81635    | 169.81635    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0068                                 | Achieved          |             | 100                                  |
| 11920        | 12085           | 169.44079 | 170.0046     | 170.0046     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00683                                | Achieved          |             | 100                                  |
| 11930        | 12095           | 169.38398 | 170.23988    | 170.23988    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00686                                | Achieved          |             | 100                                  |
| 11940        | 12105           | 169.32049 | 170.48475    | 170.48475    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00681                                | Achieved          |             | 100                                  |
| 11950        | 12115           | 169.26798 | 170.7575     | 170.7575     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00416                                | Achieved          |             | 100                                  |
| 11960        | 12125           | 169.24581 | 171.04183    | 171.04183    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00423                                | Achieved          |             | 100                                  |
| 11970        | 12135           | 169.24613 | 171.34629    | 171.34629    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00431                                | Achieved          |             | 100                                  |
| 11980        | 12145           | 169.23553 | 171.63802    | 171.63802    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00271                                | Achieved          |             | 100                                  |
| 11990        | 12155           | 169.27779 | 171.95654    | 171.95654    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99713                                | Achieved          |             | 100                                  |
| 12000        | 12165           | 169.33184 | 172.26065    | 172.26065    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99712                                | Achieved          |             | 100                                  |
| 12010        | 12175           | 169.38372 | 172.56354    | 172.56354    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99712                                | Achieved          |             | 100                                  |
| 12020        | 12185           | 169.43173 | 172.80292    | 172.80292    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99711                                | Achieved          |             | 100                                  |
| 12030        | 12195           | 169.52364 | 172.96807    | 172.96807    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99711                                | Achieved          |             | 100                                  |
| 12040        | 12205           | 169.64013 | 173.08324    | 173.08324    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99711                                | Achieved          |             | 100                                  |
| 12050        | 12215           | 169.7415  | 173.16574    | 173.16574    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99712                                | Achieved          |             | 100                                  |
| 12060        | 12225           | 169.85383 | 173.23655    | 173.23655    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99712                                | Achieved          |             | 100                                  |
| 12070        | 12235           | 170.03029 | 173.28968    | 173.28968    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99713                                | Achieved          |             | 100                                  |
| 12080        | 12245           | 170.19738 | 173.34788    | 173.34788    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99714                                | Achieved          |             | 100                                  |
| 12090        | 12255           | 170.42564 | 173.39921    | 173.39921    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99715                                | Achieved          |             | 100                                  |
| 12100        | 12265           | 170.66289 | 173.45096    | 173.45096    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99717                                | Achieved          |             | 100                                  |
| 12110        | 12275           | 170.922   | 173.47096    | 173.47096    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99163                                | Achieved          |             | 100                                  |
| 12120        | 12285           | 171.18442 | 173.47808    | 173.47808    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99439                                | Achieved          |             | 100                                  |
| 12130        | 12295           | 171.49179 | 173.47412    | 173.47412    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99434                                | Achieved          |             | 100                                  |
| 12140        | 12305           | 171.79663 | 173.49724    | 173.49724    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9943                                 | Achieved          |             | 100                                  |
| 12150        | 12315           | 172.0997  | 173.53662    | 173.53662    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99427                                | Achieved          |             | 100                                  |
| 12160        | 12325           | 172.4084  | 173.59736    | 173.59736    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99424                                | Achieved          |             | 100                                  |
| 12170        | 12335           | 172.7163  | 173.67072    | 173.67072    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99423                                | Achieved          |             | 100                                  |
| 12180        | 12345           | 172.99338 | 173.72951    | 173.72951    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99422                                | Achieved          |             | 100                                  |
| 12190        | 12355           | 173.19472 | 173.71763    | 173.71763    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99422                                | Achieved          |             | 100                                  |
| 12200        | 12365           | 173.32648 | 173.60764    | 173.60764    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98935                                | Achieved          |             | 100                                  |
| 12210        | 12375           | 173.42487 | 173.44623    | 173.44623    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9815                                 | Achieved          |             | 100                                  |
| 12220        | 12385           | 173.50471 | 173.28437    | 173.28437    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98116                                | Achieved          |             | 100                                  |
| 12230        | 12395           | 173.56212 | 173.13677    | 173.13677    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98091                                | Achieved          |             | 100                                  |
| 12240        | 12405           | 173.62092 | 172.96697    | 172.96697    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98075                                | Achieved          |             | 100                                  |
| 12250        | 12415           | 173.67274 | 172.78655    | 172.78655    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98067                                | Achieved          |             | 100                                  |
| 12260        | 12425           | 173.7292  | 172.61792    | 172.61792    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98069                                | Achieved          |             | 100                                  |
| 12270        | 12435           | 173.78597 | 172.47104    | 172.47104    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9861                                 | Achieved          |             | 100                                  |
| 12280        | 12445           | 173.7832  | 172.3651     | 172.3651     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98622                                | Achieved          |             | 100                                  |
| 12290        | 12455           | 173.77324 | 172.28448    | 172.28448    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98622                                | Achieved          |             | 100                                  |
| 12300        | 12465           | 173.78297 | 172.24256    | 172.24256    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98627                                | Achieved          |             | 100                                  |
| 12310        | 12475           | 173.81056 | 172.21554    | 172.21554    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98636                                | Achieved          |             | 100                                  |
| 12320        | 12485           | 173.86409 | 172.22226    | 172.22226    | 100          | 0.00%               | 0.0           |                         |                        |                         |  |                   |             |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction                     | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|---------------------------------|--------------------------------------|
| 12680        | 12845           | 173.93737 | 176.77964    | 176.77964    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.81218                                | Achieved          |                                 | 100                                  |
| 12690        | 12855           | 174.29109 | 176.8837     | 176.8837     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.83795                                | Achieved          |                                 | 100                                  |
| 12700        | 12865           | 174.69169 | 176.97479    | 176.97479    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.8631                                 | Achieved          |                                 | 100                                  |
| 12710        | 12875           | 175.04919 | 177.04846    | 177.04846    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.8897                                 | Achieved          |                                 | 100                                  |
| 12720        | 12885           | 175.34488 | 177.12586    | 177.12586    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91357                                | Achieved          |                                 | 100                                  |
| 12730        | 12895           | 175.52787 | 177.19232    | 177.19232    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9349                                 | Achieved          |                                 | 100                                  |
| 12740        | 12905           | 175.65468 | 177.25751    | 177.25751    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.95413                                | Achieved          |                                 | 100                                  |
| 12750        | 12915           | 175.73657 | 177.33876    | 177.33876    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9686                                 | Achieved          |                                 | 100                                  |
| 12760        | 12925           | 175.81823 | 177.4389     | 177.4389     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96849                                | Achieved          |                                 | 100                                  |
| 12770        | 12935           | 175.93833 | 177.55087    | 177.55087    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96857                                | Achieved          |                                 | 100                                  |
| 12780        | 12945           | 176.07907 | 177.64258    | 177.64258    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96883                                | Achieved          |                                 | 100                                  |
| 12790        | 12955           | 176.22974 | 177.69478    | 177.69478    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96928                                | Achieved          |                                 | 100                                  |
| 12800        | 12965           | 176.4058  | 177.69998    | 177.69998    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9699                                 | Achieved          |                                 | 100                                  |
| 12810        | 12975           | 176.59045 | 177.71175    | 177.71175    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97072                                | Achieved          |                                 | 100                                  |
| 12820        | 12985           | 176.75671 | 177.65345    | 177.65345    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97171                                | Achieved          |                                 | 100                                  |
| 12830        | 12995           | 176.89656 | 177.63013    | 177.63013    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97589                                | Achieved          |                                 | 100                                  |
| 12840        | 13005           | 177.02206 | 177.5981     | 177.5981     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98409                                | Achieved          |                                 | 100                                  |
| 12850        | 13015           | 177.13165 | 177.49738    | 177.49738    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97578                                | Achieved          |                                 | 100                                  |
| 12860        | 13025           | 177.2311  | 177.47903    | 177.47903    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98051                                | Achieved          |                                 | 100                                  |
| 12870        | 13035           | 177.31423 | 177.50699    | 177.50699    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97925                                | Achieved          |                                 | 100                                  |
| 12880        | 13045           | 177.38429 | 177.58462    | 177.58462    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97867                                | Achieved          |                                 | 100                                  |
| 12890        | 13055           | 177.4624  | 177.72719    | 177.72719    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9782                                 | Achieved          |                                 | 100                                  |
| 12900        | 13065           | 177.52253 | 177.89283    | 177.89283    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97783                                | Achieved          |                                 | 100                                  |
| 12910        | 13075           | 177.59489 | 178.04186    | 178.04186    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97756                                | Achieved          |                                 | 100                                  |
| 12920        | 13085           | 177.68543 | 178.19716    | 178.19716    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97739                                | Achieved          |                                 | 100                                  |
| 12930        | 13095           | 177.79608 | 178.31636    | 178.31636    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97732                                | Achieved          |                                 | 100                                  |
| 12940        | 13105           | 177.89921 | 178.41255    | 178.41255    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97736                                | Achieved          |                                 | 100                                  |
| 12950        | 13115           | 177.98178 | 178.53789    | 178.53789    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97749                                | Achieved          |                                 | 100                                  |
| 12960        | 13125           | 177.99775 | 178.71342    | 178.71342    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97773                                | Achieved          |                                 | 100                                  |
| 12970        | 13135           | 178.008   | 178.93805    | 178.93805    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97806                                | Achieved          |                                 | 100                                  |
| 12980        | 13145           | 177.97878 | 179.23937    | 179.23937    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9785                                 | Achieved          |                                 | 100                                  |
| 12990        | 13155           | 177.93122 | 179.57577    | 179.57577    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97904                                | Achieved          |                                 | 100                                  |
| 13000        | 13165           | 177.92944 | 179.93931    | 179.93931    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98423                                | Achieved          |                                 | 100                                  |
| 13010        | 13175           | 177.83376 | 180.34302    | 180.34302    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99223                                | Achieved          |                                 | 100                                  |
| 13020        | 13185           | 177.77838 | 180.87474    | 180.87474    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01566                                | Achieved          |                                 | 100                                  |
| 13030        | 13195           | 177.78508 | 181.41069    | 181.41069    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05126                                | Achieved          |                                 | 100                                  |
| 13040        | 13205           | 177.83885 | 181.95736    | 181.95736    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08157                                | Achieved          |                                 | 100                                  |
| 13050        | 13215           | 177.94872 | 182.45146    | 182.45146    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08841                                | Achieved          |                                 | 100                                  |
| 13060        | 13225           | 178.1088  | 182.86526    | 182.86526    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.17664                                | Achieved          |                                 | 100                                  |
| 13070        | 13235           | 178.27121 | 183.1621     | 183.1621     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07757                                | Achieved          |                                 | 100                                  |
| 13080        | 13245           | 178.41807 | 183.35438    | 183.35438    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.69526                                | Achieved          |                                 | 100                                  |
| 13090        | 13255           | 178.55951 | 183.5096     | 183.5096     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.97017                                | Achieved          |                                 | 100                                  |
| 13100        | 13265           | 178.66584 | 183.62384    | 183.62384    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.87032                                | Achieved          |                                 | 100                                  |
| 13110        | 13275           | 178.74695 | 183.63161    | 183.63161    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.3905                                 | Achieved          |                                 | 100                                  |
| 13120        | 13285           | 178.81952 | 183.53089    | 183.53089    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.62771                                | Achieved          |                                 | 100                                  |
| 13130        | 13295           | 179.11854 | 183.40539    | 183.40539    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 158.1011                                 | Achieved          |                                 | 100                                  |
| 13140        | 13305           | 179.37782 | 183.29962    | 183.29962    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 156.90072                                | Achieved          |                                 | 100                                  |
| 13150        | 13315           | 179.71177 | 183.19321    | 183.19321    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 156.05979                                | Achieved          |                                 | 100                                  |
| 13160        | 13325           | 180.05818 | 183.12233    | 183.12233    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 155.67528                                | Achieved          |                                 | 100                                  |
| 13170        | 13335           | 180.43126 | 183.1265     | 183.1265     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 155.76214                                | Achieved          |                                 | 100                                  |
| 13180        | 13345           | 180.8924  | 183.33517    | 183.33517    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 156.31126                                | Achieved          |                                 | 100                                  |
| 13190        | 13355           | 181.44679 | 183.76806    | 183.76806    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 157.29531                                | Achieved          |                                 | 100                                  |
| 13200        | 13365           | 181.99148 | 184.30668    | 184.30668    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 158.9332                                 | Achieved          |                                 | 100                                  |
| 13210        | 13375           | 182.50446 | 184.87768    | 184.87768    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.15698                                | Achieved          |                                 | 100                                  |
| 13220        | 13385           | 182.97704 | 185.39203    | 185.39203    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.85928                                | Achieved          |                                 | 100                                  |
| 13230        | 13395           | 183.32968 | 185.79954    | 185.79954    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.23305                                | Achieved          |                                 | 100                                  |
| 13240        | 13405           | 183.57049 | 186.07032    | 186.07032    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.21257                                | Achieved          |                                 | 100                                  |
| 13250        | 13415           | 183.73221 | 186.23593    | 186.23593    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.77113                                | Achieved          |                                 | 100                                  |
| 13260        | 13425           | 183.87313 | 186.31492    | 186.31492    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96754                                | Achieved          |                                 | 100                                  |
| 13270        | 13435           | 183.95124 | 186.29391    | 186.29391    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.84876                                | Achieved          |                                 | 100                                  |
| 13280        | 13445           | 183.98355 | 186.26569    | 186.26569    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.41802                                | Achieved          |                                 | 100                                  |
| 13290        | 13455           | 183.77593 | 186.21042    | 186.21042    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.87898                                | Achieved          |                                 | 100                                  |
| 13300        | 13458           | 183.65789 | 186.20721    | 186.20721    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 158                     | 156.65237                                | Relaxed           | Vertical alignment              | 100                                  |
| 13310        | 13458           | 183.53874 | 186.20721    | 186.20721    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 148                     | 146.63461                                | Relaxed           | Vertical alignment              | 100                                  |
| 13320        | 13458           | 183.45106 | 186.20721    | 186.20721    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 138                     | 136.65484                                | Not Achieved      | Vertical alignment              | 90                                   |
| 13330        | 13458           | 183.3982  | 186.20721    | 186.20721    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 126.67976                                | Not Achieved      | Vertical alignment              | 90                                   |
| 13340        | 13460           | 183.49611 | 186.19507    | 186.19507    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 120                     | 118.57657                                | Not Achieved      | Vertical alignment              | 80                                   |
| 13350        | 13462           | 183.80885 | 186.18123    | 186.18123    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 110.47911                                | Not Achieved      | Vertical alignment              | 80                                   |
| 13360        | 13464           | 184.33612 | 186.16488    | 186.16488    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 104                     | 102.39274                                | Not Achieved      | Vertical alignment              | 80                                   |
| 13370        | 13468           | 184.89976 | 186.13393    | 186.13393    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 96.1755                                  | Not Achieved      | Inside Curve/Vertical Alignment | 70                                   |
| 13380        | 13472           | 185.45241 | 186.09807    | 186.09807    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 89.98622                                 | Not Achieved      | Inside Curve/Vertical Alignment | 70                                   |
| 13390        | 13478           | 185.91944 | 186.03609    | 186.03609    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 85.67744                                 | Not Achieved      | Inside Curve/Vertical Alignment | 70                                   |
| 13400        | 13484           | 186.25857 | 185.97699    | 185.97699    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 81.46003                                 | Not Achieved      | Inside Curve/Vertical Alignment | 70                                   |
| 13410        | 13494           | 186.46592 | 185.8958     | 185.8958     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 81.34102                                 | Not Achieved      | Inside Curve/Vertical Alignment | 70                                   |
| 13420        | 13502           | 186.58764 | 185.83162    | 185.83162    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 82                      | 79.59021                                 | Not Achieved      | Inside Curve/Vertical Alignment | 80                                   |
| 13430        | 13505           | 186.61286 | 185.45458    | 185.45458    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 85                      | 160.2216                                 | Achieved          |                                 | 100                                  |
| 13440        | 13495           | 186.53993 | 185.22745    | 185.22745    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 85                      | 159.63387                                | Achieved          |                                 | 100                                  |
| 13450        | 13615           | 186.54478 | 184.99671    | 184.99671    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.02968                                | Achieved          |                                 | 100                                  |
| 13460        | 13625           | 186.49507 | 184.79775    | 184.79775    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 158.52248                                | Achieved          |                                 | 100                                  |
| 13470        | 13635           | 186.41562 | 184.60641    | 184.60641    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 158.2955                                 | Achieved          |                                 | 100                                  |
| 13480        | 13645           | 186.31354 | 184.43297    | 184.43297    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 158.56031                                | Achieved          |                                 | 100                                  |
| 13490        | 13655           | 186.228   |              |              |              |                     |               |                         |                        |                         |  |                   |                                 |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 13850        | 13984           | 184.61631 | 187.23632    | 187.23632    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 131.966                                  | Not Achieved      | Inside Curve       | 90                                   |
| 13860        | 13984           | 184.55796 | 187.23632    | 187.23632    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 122.0664                                 | Not Achieved      | Inside Curve       | 90                                   |
| 13870        | 13986           | 184.50882 | 187.25059    | 187.25059    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 114.07581                                | Not Achieved      | Inside Curve       | 80                                   |
| 13880        | 13990           | 184.48294 | 187.26601    | 187.26601    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 108.00491                                | Not Achieved      | Inside Curve       | 80                                   |
| 13890        | 13992           | 184.53949 | 187.27193    | 187.27193    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 100.07901                                | Not Achieved      | Inside Curve       | 80                                   |
| 13900        | 13996           | 184.69329 | 187.27725    | 187.27725    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 94.08684                                 | Not Achieved      | Inside Curve       | 70                                   |
| 13910        | 14002           | 184.95382 | 187.27395    | 187.27395    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 90.03599                                 | Not Achieved      | Inside Curve       | 70                                   |
| 13920        | 14010           | 185.27894 | 187.252      | 187.252      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 87.96443                                 | Not Achieved      | Inside Curve       | 70                                   |
| 13930        | 14018           | 185.69116 | 187.25052    | 187.25052    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 86.09761                                 | Not Achieved      | Inside Curve       | 70                                   |
| 13940        | 14034           | 186.20734 | 187.42296    | 187.42296    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 92.18746                                 | Not Achieved      | Inside Curve       | 70                                   |
| 13950        | 14068           | 186.69655 | 188.01261    | 188.01261    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 115                     | 116.2821                                 | Not Achieved      | Inside Curve       | 80                                   |
| 13960        | 14125           | 187.09209 | 187.95989    | 187.95989    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.36786                                | Achieved          |                    | 100                                  |
| 13970        | 14135           | 187.33266 | 187.90973    | 187.90973    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.76839                                | Achieved          |                    | 100                                  |
| 13980        | 14145           | 187.48888 | 187.87412    | 187.87412    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.08034                                | Achieved          |                    | 100                                  |
| 13990        | 14155           | 187.56601 | 187.78552    | 187.78552    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.2873                                 | Achieved          |                    | 100                                  |
| 14000        | 14165           | 187.57457 | 187.58224    | 187.58224    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.40513                                | Achieved          |                    | 100                                  |
| 14010        | 14175           | 187.552   | 187.27514    | 187.27514    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.43299                                | Achieved          |                    | 100                                  |
| 14020        | 14185           | 187.59993 | 186.96272    | 186.96272    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.33436                                | Achieved          |                    | 100                                  |
| 14030        | 14195           | 187.66325 | 186.61095    | 186.61095    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.23465                                | Achieved          |                    | 100                                  |
| 14040        | 14205           | 187.82612 | 186.26423    | 186.26423    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.13781                                | Achieved          |                    | 100                                  |
| 14050        | 14215           | 188.0146  | 185.97505    | 185.97505    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.09702                                | Achieved          |                    | 100                                  |
| 14060        | 14225           | 188.19947 | 185.7262     | 185.7262     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.07817                                | Achieved          |                    | 100                                  |
| 14070        | 14235           | 188.33143 | 185.53804    | 185.53804    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.07342                                | Achieved          |                    | 100                                  |
| 14080        | 14245           | 188.37326 | 185.37054    | 185.37054    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.10289                                | Achieved          |                    | 100                                  |
| 14090        | 14255           | 188.39669 | 185.20955    | 185.20955    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.16553                                | Achieved          |                    | 100                                  |
| 14100        | 14265           | 188.37676 | 185.04396    | 185.04396    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.24903                                | Achieved          |                    | 100                                  |
| 14110        | 14275           | 188.3155  | 184.83134    | 184.83134    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.35012                                | Achieved          |                    | 100                                  |
| 14120        | 14285           | 188.2722  | 184.57853    | 184.57853    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.44719                                | Achieved          |                    | 100                                  |
| 14130        | 14295           | 188.24168 | 184.33448    | 184.33448    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.53798                                | Achieved          |                    | 100                                  |
| 14140        | 14305           | 188.19975 | 184.14388    | 184.14388    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.62078                                | Achieved          |                    | 100                                  |
| 14150        | 14315           | 188.14369 | 183.94653    | 183.94653    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.70147                                | Achieved          |                    | 100                                  |
| 14160        | 14325           | 187.99806 | 183.72651    | 183.72651    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.77332                                | Achieved          |                    | 100                                  |
| 14170        | 14335           | 187.73246 | 183.54085    | 183.54085    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.83438                                | Achieved          |                    | 100                                  |
| 14180        | 14345           | 187.42066 | 183.42219    | 183.42219    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.88387                                | Achieved          |                    | 100                                  |
| 14190        | 14355           | 187.08749 | 183.33029    | 183.33029    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92835                                | Achieved          |                    | 100                                  |
| 14200        | 14365           | 186.73876 | 183.21714    | 183.21714    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96288                                | Achieved          |                    | 100                                  |
| 14210        | 14375           | 186.4117  | 183.06704    | 183.06704    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98039                                | Achieved          |                    | 100                                  |
| 14220        | 14385           | 186.13643 | 182.93938    | 182.93938    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9835                                 | Achieved          |                    | 100                                  |
| 14230        | 14395           | 185.92711 | 182.81593    | 182.81593    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9865                                 | Achieved          |                    | 100                                  |
| 14240        | 14405           | 185.75254 | 182.70848    | 182.70848    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98939                                | Achieved          |                    | 100                                  |
| 14250        | 14415           | 185.58928 | 182.63449    | 182.63449    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99218                                | Achieved          |                    | 100                                  |
| 14260        | 14425           | 185.4284  | 182.60021    | 182.60021    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99488                                | Achieved          |                    | 100                                  |
| 14270        | 14435           | 185.25124 | 182.58       | 182.58       | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99845                                | Achieved          |                    | 100                                  |
| 14280        | 14445           | 185.07098 | 182.56727    | 182.56727    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99928                                | Achieved          |                    | 100                                  |
| 14290        | 14455           | 184.74973 | 182.58254    | 182.58254    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00029                                | Achieved          |                    | 100                                  |
| 14300        | 14465           | 184.53451 | 182.6068     | 182.6068     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00648                                | Achieved          |                    | 100                                  |
| 14310        | 14475           | 184.3469  | 182.59308    | 182.59308    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00704                                | Achieved          |                    | 100                                  |
| 14320        | 14485           | 184.19885 | 182.5659     | 182.5659     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00414                                | Achieved          |                    | 100                                  |
| 14330        | 14495           | 183.92443 | 182.48391    | 182.48391    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00117                                | Achieved          |                    | 100                                  |
| 14340        | 14505           | 183.77309 | 182.42418    | 182.42418    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00077                                | Achieved          |                    | 100                                  |
| 14350        | 14515           | 183.67429 | 182.37266    | 182.37266    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99737                                | Achieved          |                    | 100                                  |
| 14360        | 14525           | 183.57832 | 182.32111    | 182.32111    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99736                                | Achieved          |                    | 100                                  |
| 14370        | 14535           | 183.44355 | 182.2368     | 182.2368     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99736                                | Achieved          |                    | 100                                  |
| 14380        | 14545           | 183.30008 | 182.08531    | 182.08531    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99737                                | Achieved          |                    | 100                                  |
| 14390        | 14555           | 183.17468 | 181.90855    | 181.90855    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99955                                | Achieved          |                    | 100                                  |
| 14400        | 14565           | 183.06106 | 181.67699    | 181.67699    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99955                                | Achieved          |                    | 100                                  |
| 14410        | 14575           | 182.96644 | 181.40563    | 181.40563    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99955                                | Achieved          |                    | 100                                  |
| 14420        | 14585           | 182.91284 | 181.19943    | 181.19943    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00226                                | Achieved          |                    | 100                                  |
| 14430        | 14595           | 182.89008 | 181.15866    | 181.15866    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0052                                 | Achieved          |                    | 100                                  |
| 14440        | 14605           | 182.86723 | 181.13395    | 181.13395    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00806                                | Achieved          |                    | 100                                  |
| 14450        | 14615           | 182.87479 | 181.13061    | 181.13061    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01151                                | Achieved          |                    | 100                                  |
| 14460        | 14625           | 182.8998  | 181.50713    | 181.50713    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01353                                | Achieved          |                    | 100                                  |
| 14470        | 14635           | 182.91222 | 181.71279    | 181.71279    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01119                                | Achieved          |                    | 100                                  |
| 14480        | 14645           | 182.87489 | 181.94672    | 181.94672    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01109                                | Achieved          |                    | 100                                  |
| 14490        | 14655           | 182.83223 | 182.17402    | 182.17402    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01103                                | Achieved          |                    | 100                                  |
| 14500        | 14665           | 182.75542 | 182.40808    | 182.40808    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.011                                  | Achieved          |                    | 100                                  |
| 14510        | 14675           | 182.69528 | 182.70207    | 182.70207    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01102                                | Achieved          |                    | 100                                  |
| 14520        | 14685           | 182.65036 | 183.0964     | 183.0964     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01262                                | Achieved          |                    | 100                                  |
| 14530        | 14695           | 182.58062 | 183.534      | 183.534      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02138                                | Achieved          |                    | 100                                  |
| 14540        | 14705           | 182.46373 | 184.08412    | 184.08412    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0372                                 | Achieved          |                    | 100                                  |
| 14550        | 14715           | 182.29817 | 184.60743    | 184.60743    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05553                                | Achieved          |                    | 100                                  |
| 14560        | 14725           | 182.10315 | 185.0526     | 185.0526     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07283                                | Achieved          |                    | 100                                  |
| 14570        | 14735           | 181.84619 | 185.37964    | 185.37964    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08435                                | Achieved          |                    | 100                                  |
| 14580        | 14745           | 181.58262 | 185.57394    | 185.57394    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08807                                | Achieved          |                    | 100                                  |
| 14590        | 14755           | 181.45653 | 185.64354    | 185.64354    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08275                                | Achieved          |                    | 100                                  |
| 14600        | 14765           | 181.49952 | 185.65658    | 185.65658    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06704                                | Achieved          |                    | 100                                  |
| 14610        | 14775           | 181.57376 | 185.69094    | 185.69094    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0413                                 | Achieved          |                    | 100                                  |
| 14620        | 14785           | 181.71759 | 185.69216    | 185.69216    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01353                                | Achieved          |                    | 100                                  |
| 14630        | 14795           | 181.90374 | 185.68987    | 185.68987    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 156                     | 156.01874                                | Relaxed           | Vertical alignment | 100                                  |
| 14640        | 14784           | 182.1292  | 185.6945     | 185.6945     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 144.03508                                | Relaxed           | Vertical alignment | 100                                  |
| 14650        | 14784           | 182.36395 | 185.6945     | 185.6945     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134.04605                                | Not Achieved      | Vertical alignment | 90                                   |
| 14660        | 14782           | 182.5833  | 185.69836    | 185.6983     |              |                     |               |                         |                        |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zec Tr (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|--------------------------------------|
| 15020        | 15185           | 186.00666 | 186.16974    | 186.16974    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98585                                | Achieved          |                    | 100                                  |
| 15030        | 15195           | 186.03158 | 186.23204    | 186.23204    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98605                                | Achieved          |                    | 100                                  |
| 15040        | 15205           | 186.04094 | 186.30463    | 186.30463    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98629                                | Achieved          |                    | 100                                  |
| 15050        | 15215           | 186.04843 | 186.32333    | 186.32333    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98658                                | Achieved          |                    | 100                                  |
| 15060        | 15225           | 186.04693 | 186.31966    | 186.31966    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98692                                | Achieved          |                    | 100                                  |
| 15070        | 15235           | 186.0473  | 186.23442    | 186.23442    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 15080        | 15245           | 186.12381 | 186.00376    | 186.00376    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                  |
| 15090        | 15255           | 186.15238 | 185.63986    | 185.63986    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99925                                | Achieved          |                    | 100                                  |
| 15100        | 15262           | 186.18652 | 185.34712    | 185.34712    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 161.99574                                | Relaxed           | Vertical alignment | 100                                  |
| 15110        | 15262           | 186.20951 | 185.34712    | 185.34712    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 151.99574                                | Relaxed           | Vertical alignment | 100                                  |
| 15120        | 15264           | 186.25498 | 185.28951    | 185.28951    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 143.99473                                | Relaxed           | Vertical alignment | 100                                  |
| 15130        | 15266           | 186.33045 | 185.19371    | 185.19371    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 135.99392                                | Not Achieved      | Vertical alignment | 90                                   |
| 15140        | 15268           | 186.40513 | 185.12615    | 185.12615    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 127.9927                                 | Not Achieved      | Vertical alignment | 90                                   |
| 15150        | 15272           | 186.47605 | 185.00327    | 185.00327    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 121.99065                                | Not Achieved      | Vertical alignment | 90                                   |
| 15160        | 15325           | 186.4983  | 185.06276    | 185.06276    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.14577                                | Achieved          |                    | 100                                  |
| 15170        | 15335           | 186.49162 | 185.05124    | 185.05124    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07922                                | Achieved          |                    | 100                                  |
| 15180        | 15345           | 186.46989 | 185.03345    | 185.03345    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91957                                | Achieved          |                    | 100                                  |
| 15190        | 15355           | 186.49364 | 185.00858    | 185.00858    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.70881                                | Achieved          |                    | 100                                  |
| 15200        | 15365           | 186.57168 | 184.95413    | 184.95413    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.45134                                | Achieved          |                    | 100                                  |
| 15210        | 15375           | 186.61932 | 184.93445    | 184.93445    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.14701                                | Achieved          |                    | 100                                  |
| 15220        | 15385           | 186.62641 | 184.91192    | 184.91192    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.83606                                | Achieved          |                    | 100                                  |
| 15230        | 15395           | 186.5937  | 184.95582    | 184.95582    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.6203                                 | Achieved          |                    | 100                                  |
| 15240        | 15405           | 186.43684 | 185.02199    | 185.02199    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.47582                                | Achieved          |                    | 100                                  |
| 15250        | 15415           | 186.13283 | 185.12038    | 185.12038    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.38339                                | Achieved          |                    | 100                                  |
| 15260        | 15425           | 185.72732 | 185.14033    | 185.14033    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.41924                                | Achieved          |                    | 100                                  |
| 15270        | 15435           | 185.35888 | 185.07631    | 185.07631    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.57442                                | Achieved          |                    | 100                                  |
| 15280        | 15445           | 185.32448 | 185.14476    | 185.14476    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.77032                                | Achieved          |                    | 100                                  |
| 15290        | 15455           | 185.03888 | 185.27183    | 185.27183    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.01507                                | Achieved          |                    | 100                                  |
| 15300        | 15465           | 185.06683 | 185.41942    | 185.41942    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.23416                                | Achieved          |                    | 100                                  |
| 15310        | 15475           | 185.16736 | 185.64891    | 185.64891    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.29123                                | Achieved          |                    | 100                                  |
| 15320        | 15485           | 185.29015 | 186.02993    | 186.02993    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.18498                                | Achieved          |                    | 100                                  |
| 15330        | 15495           | 185.36209 | 186.60681    | 186.60681    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.8747                                 | Achieved          |                    | 100                                  |
| 15340        | 15505           | 185.34782 | 187.35509    | 187.35509    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.56687                                | Achieved          |                    | 100                                  |
| 15350        | 15515           | 185.3274  | 188.12698    | 188.12698    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.27251                                | Achieved          |                    | 100                                  |
| 15360        | 15525           | 185.28084 | 188.82963    | 188.82963    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.01861                                | Achieved          |                    | 100                                  |
| 15370        | 15535           | 185.24655 | 189.40037    | 189.40037    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.84198                                | Achieved          |                    | 100                                  |
| 15380        | 15545           | 185.21236 | 189.51994    | 189.51994    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.80668                                | Achieved          |                    | 100                                  |
| 15390        | 15555           | 185.23077 | 189.24015    | 189.24015    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.86198                                | Achieved          |                    | 100                                  |
| 15400        | 15566           | 185.28006 | 189.20638    | 189.20638    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 156                     | 154.03686                                | Relaxed           | Vertical alignment | 100                                  |
| 15410        | 15566           | 185.36116 | 189.20638    | 189.20638    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 144.30672                                | Relaxed           | Vertical alignment | 100                                  |
| 15420        | 15566           | 185.45491 | 189.20638    | 189.20638    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 134.60352                                | Not Achieved      | Vertical alignment | 90                                   |
| 15430        | 15564           | 185.41826 | 189.27571    | 189.27571    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 122.90811                                | Not Achieved      | Vertical alignment | 90                                   |
| 15440        | 15564           | 185.39217 | 189.27571    | 189.27571    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 114                     | 113.23025                                | Not Achieved      | Vertical alignment | 80                                   |
| 15450        | 15564           | 185.30395 | 189.27571    | 189.27571    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 93.55271                                 | Not Achieved      | Vertical alignment | 70                                   |
| 15460        | 15564           | 185.64732 | 189.27571    | 189.27571    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 83.70865                                 | Not Achieved      | Vertical alignment | 70                                   |
| 15470        | 15552           | 185.81774 | 189.34765    | 189.34765    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 82                      | 81.85101                                 | Not Achieved      | Vertical alignment | 70                                   |
| 15480        | 15550           | 186.11748 | 189.4051     | 189.4051     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 70                      | 69.91835                                 | Not Achieved      | Vertical alignment | 60                                   |
| 15490        | 15550           | 186.59213 | 189.4051     | 189.4051     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 60                      | 59.97356                                 | Not Achieved      | Vertical alignment | 50                                   |
| 15500        | 15552           | 187.26812 | 189.34765    | 189.34765    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 52                      | 52                                       | Not Achieved      | Vertical alignment | 50                                   |
| 15510        | 15556           | 188.04604 | 189.20638    | 189.20638    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 46                      | 46                                       | Not Achieved      | Vertical alignment | 40                                   |
| 15520        | 15572           | 188.78965 | 188.69102    | 188.69102    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 52                      | 52                                       | Not Achieved      | Vertical alignment | 50                                   |
| 15530        | 15695           | 189.44922 | 190.47734    | 190.47734    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.61386                                | Achieved          |                    | 100                                  |
| 15540        | 15700           | 189.82958 | 190.57221    | 190.57221    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 160                     | 158.37096                                | Relaxed           | Inside Curve       | 100                                  |
| 15550        | 15702           | 189.7051  | 190.60303    | 190.60303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 150.34036                                | Relaxed           | Inside Curve       | 100                                  |
| 15560        | 15702           | 189.36875 | 190.60303    | 190.60303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 140.44706                                | Relaxed           | Inside Curve       | 90                                   |
| 15570        | 15704           | 189.05223 | 190.62618    | 190.62618    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 132.46903                                | Not Achieved      | Inside Curve       | 90                                   |
| 15580        | 15708           | 188.77608 | 190.67821    | 190.67821    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 126.44379                                | Not Achieved      | Inside Curve       | 90                                   |
| 15590        | 15712           | 188.62597 | 190.73453    | 190.73453    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 120.49243                                | Not Achieved      | Inside Curve       | 90                                   |
| 15600        | 15716           | 188.627   | 190.78598    | 190.78598    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 114.62845                                | Not Achieved      | Inside Curve       | 80                                   |
| 15610        | 15728           | 188.77109 | 190.93567    | 190.93567    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 114.73531                                | Not Achieved      | Inside Curve       | 80                                   |
| 15620        | 15750           | 188.98393 | 191.61771    | 191.61771    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 100                                      | Not Achieved      | Inside Curve       | 80                                   |
| 15630        | 15795           | 189.18823 | 193.20002    | 193.20002    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.13624                                | Achieved          |                    | 100                                  |
| 15640        | 15805           | 189.43095 | 193.65761    | 193.65761    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.62417                                | Achieved          |                    | 100                                  |
| 15650        | 15813           | 189.6709  | 194.18179    | 194.18179    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.001                                  | Achieved          |                    | 100                                  |
| 15660        | 15825           | 189.92615 | 194.74641    | 194.74641    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.14252                                | Achieved          |                    | 100                                  |
| 15670        | 15833           | 190.17688 | 195.34129    | 195.34129    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.11576                                | Achieved          |                    | 100                                  |
| 15680        | 15845           | 190.43531 | 195.88935    | 195.88935    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08222                                | Achieved          |                    | 100                                  |
| 15690        | 15855           | 190.68257 | 196.49369    | 196.49369    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03213                                | Achieved          |                    | 100                                  |
| 15700        | 15865           | 190.87221 | 197.12902    | 197.12902    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99065                                | Achieved          |                    | 100                                  |
| 15710        | 15875           | 191.00761 | 197.82369    | 197.82369    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99366                                | Achieved          |                    | 100                                  |
| 15720        | 15885           | 191.14263 | 198.54826    | 198.54826    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9938                                 | Achieved          |                    | 100                                  |
| 15730        | 15895           | 191.33095 | 199.30256    | 199.30256    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99384                                | Achieved          |                    | 100                                  |
| 15740        | 15905           | 191.60328 | 200.02454    | 200.02454    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99344                                | Achieved          |                    | 100                                  |
| 15750        | 15915           | 191.91771 | 200.75977    | 200.75977    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99298                                | Achieved          |                    | 100                                  |
| 15760        | 15925           | 192.2673  | 201.45708    | 201.45708    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99307                                | Achieved          |                    | 100                                  |
| 15770        | 15935           | 192.54614 | 202.12408    | 202.12408    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99317                                | Achieved          |                    | 100                                  |
| 15780        | 15945           | 192.9115  | 202.78987    | 202.78987    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99328                                | Achieved          |                    | 100                                  |
| 15790        | 15964           | 193.37467 | 203.37467    | 203.37467    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99341                                | Achieved          |                    | 100                                  |
| 15800        | 15965           | 193.71507 | 204.04893    | 204.04893    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99603                                | Achieved          |                    | 100                                  |
| 15810        | 15975           | 194.21199 | 204.7316     | 204.7316     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98993                                | Achieved          |                    | 100                                  |
| 15820        | 15985           | 194.75112 | 205.38192    | 205.38192    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98193                                | Achieved          |                    | 100                                  |
| 15830        | 15995           | 195.35    |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction  | SSD Speed Achieved EDD Zec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------|--------------------------------------|
| 16190        | 16355           | 212.41071 | 211.58827    | 211.58827    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.74246                                | Achieved          |              | 100                                  |
| 16200        | 16365           | 212.68998 | 211.46597    | 211.46597    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.51969                                | Achieved          |              | 100                                  |
| 16210        | 16375           | 212.90636 | 211.43449    | 211.43449    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.19589                                | Achieved          |              | 100                                  |
| 16220        | 16385           | 213.05247 | 211.41382    | 211.41382    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.75311                                | Achieved          |              | 100                                  |
| 16230        | 16395           | 213.09364 | 211.39803    | 211.39803    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.24489                                | Achieved          |              | 100                                  |
| 16240        | 16405           | 213.04268 | 211.34317    | 211.34317    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.71035                                | Achieved          |              | 100                                  |
| 16250        | 16415           | 212.95997 | 211.2942     | 211.2942     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.25387                                | Achieved          |              | 100                                  |
| 16260        | 16425           | 212.86998 | 211.22746    | 211.22746    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.87801                                | Achieved          |              | 100                                  |
| 16270        | 16435           | 212.83254 | 211.15869    | 211.15869    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.59912                                | Achieved          |              | 100                                  |
| 16280        | 16445           | 212.79695 | 211.09334    | 211.09334    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.42358                                | Achieved          |              | 100                                  |
| 16290        | 16455           | 212.74977 | 210.89262    | 210.89262    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.41239                                | Relaxed           | Inside Curve | 100                                  |
| 16300        | 16465           | 212.63059 | 210.74007    | 210.74007    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.48757                                | Achieved          |              | 100                                  |
| 16310        | 16475           | 212.46977 | 210.56341    | 210.56341    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.71613                                | Achieved          |              | 100                                  |
| 16320        | 16485           | 212.32081 | 210.40132    | 210.40132    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.07765                                | Achieved          |              | 100                                  |
| 16330        | 16495           | 212.22926 | 210.22352    | 210.22352    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.5248                                 | Achieved          |              | 100                                  |
| 16340        | 16505           | 212.08733 | 210.05276    | 210.05276    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.04118                                | Achieved          |              | 100                                  |
| 16350        | 16515           | 211.95597 | 209.883      | 209.883      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.61952                                | Achieved          |              | 100                                  |
| 16360        | 16525           | 211.82072 | 209.68232    | 209.68232    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.08721                                | Achieved          |              | 100                                  |
| 16370        | 16535           | 211.74498 | 209.45984    | 209.45984    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.4347                                 | Achieved          |              | 100                                  |
| 16380        | 16545           | 211.73182 | 209.23206    | 209.23206    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.67746                                | Achieved          |              | 100                                  |
| 16390        | 16555           | 211.7068  | 209.0219     | 209.0219     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.82674                                | Achieved          |              | 100                                  |
| 16400        | 16565           | 211.67312 | 208.78469    | 208.78469    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91559                                | Achieved          |              | 100                                  |
| 16410        | 16575           | 211.63035 | 208.53221    | 208.53221    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.94947                                | Achieved          |              | 100                                  |
| 16420        | 16585           | 211.56005 | 208.33536    | 208.33536    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96943                                | Achieved          |              | 100                                  |
| 16430        | 16595           | 211.49601 | 208.14168    | 208.14168    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98751                                | Achieved          |              | 100                                  |
| 16440        | 16605           | 211.40491 | 207.93919    | 207.93919    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16450        | 16615           | 211.28037 | 207.74403    | 207.74403    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16460        | 16625           | 211.08464 | 207.55013    | 207.55013    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16470        | 16635           | 210.93521 | 207.35417    | 207.35417    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16480        | 16645           | 210.79617 | 207.17368    | 207.17368    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01481                                | Achieved          |              | 100                                  |
| 16490        | 16655           | 210.60557 | 207.01477    | 207.01477    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.09091                                | Achieved          |              | 100                                  |
| 16500        | 16665           | 210.43933 | 206.82802    | 206.82802    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.16431                                | Achieved          |              | 100                                  |
| 16510        | 16675           | 210.2753  | 206.63398    | 206.63398    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.12879                                | Achieved          |              | 100                                  |
| 16520        | 16685           | 210.08811 | 206.42975    | 206.42975    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.93894                                | Achieved          |              | 100                                  |
| 16530        | 16695           | 209.87423 | 206.22324    | 206.22324    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.5645                                 | Achieved          |              | 100                                  |
| 16540        | 16705           | 209.63894 | 206.06023    | 206.06023    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.98923                                | Achieved          |              | 100                                  |
| 16550        | 16715           | 209.42233 | 205.90034    | 205.90034    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.20845                                | Achieved          |              | 100                                  |
| 16560        | 16725           | 209.21367 | 205.76028    | 205.76028    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.3824                                 | Achieved          |              | 100                                  |
| 16570        | 16735           | 208.95162 | 205.64023    | 205.64023    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.72556                                | Achieved          |              | 100                                  |
| 16580        | 16745           | 208.72403 | 205.52064    | 205.52064    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.2656                                 | Achieved          |              | 100                                  |
| 16590        | 16755           | 208.53733 | 205.39077    | 205.39077    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.00421                                | Achieved          |              | 100                                  |
| 16600        | 16765           | 208.34439 | 205.22396    | 205.22396    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.94236                                | Achieved          |              | 100                                  |
| 16610        | 16775           | 208.14428 | 205.04824    | 205.04824    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.08028                                | Achieved          |              | 100                                  |
| 16620        | 16785           | 207.94932 | 204.89787    | 204.89787    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.11245                                | Achieved          |              | 100                                  |
| 16630        | 16795           | 207.74669 | 204.75076    | 204.75076    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.85263                                | Achieved          |              | 100                                  |
| 16640        | 16805           | 207.55722 | 204.58241    | 204.58241    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.68313                                | Achieved          |              | 100                                  |
| 16650        | 16815           | 207.40531 | 204.38084    | 204.38084    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.51324                                | Achieved          |              | 100                                  |
| 16660        | 16825           | 207.2161  | 204.23469    | 204.23469    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.22316                                | Achieved          |              | 100                                  |
| 16670        | 16835           | 207.03666 | 204.11583    | 204.11583    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.7243                                 | Achieved          |              | 100                                  |
| 16680        | 16845           | 206.82819 | 203.97737    | 203.97737    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02878                                | Achieved          |              | 100                                  |
| 16690        | 16855           | 206.631   | 203.85816    | 203.85816    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.15801                                | Achieved          |              | 100                                  |
| 16700        | 16865           | 206.43377 | 203.73533    | 203.73533    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.14745                                | Achieved          |              | 100                                  |
| 16710        | 16875           | 206.278   | 203.63571    | 203.63571    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05328                                | Achieved          |              | 100                                  |
| 16720        | 16885           | 206.12485 | 203.55679    | 203.55679    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00065                                | Achieved          |              | 100                                  |
| 16730        | 16895           | 206.00389 | 203.47252    | 203.47252    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16740        | 16905           | 205.87913 | 203.36854    | 203.36854    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16750        | 16915           | 205.759   | 203.27936    | 203.27936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16760        | 16925           | 205.61679 | 203.20697    | 203.20697    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16770        | 16935           | 205.43872 | 203.1064     | 203.1064     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16780        | 16945           | 205.27135 | 203.05723    | 203.05723    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16790        | 16955           | 205.12593 | 203.02879    | 203.02879    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16800        | 16965           | 204.96902 | 203.0061     | 203.0061     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16810        | 16975           | 204.78158 | 202.97936    | 202.97936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16820        | 16985           | 204.59676 | 202.97837    | 202.97837    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16830        | 16995           | 204.47457 | 203          | 203          | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16840        | 17005           | 204.34427 | 203.01877    | 203.01877    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16850        | 17015           | 204.20268 | 203.04128    | 203.04128    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16860        | 17025           | 204.10695 | 203.09254    | 203.09254    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16870        | 17035           | 203.9762  | 203.14134    | 203.14134    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16880        | 17045           | 203.90006 | 203.19478    | 203.19478    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16890        | 17055           | 203.8231  | 203.20759    | 203.20759    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16900        | 17065           | 203.7177  | 203.20564    | 203.20564    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16910        | 17075           | 203.61933 | 203.20051    | 203.20051    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16920        | 17085           | 203.5509  | 203.15902    | 203.15902    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |              | 100                                  |
| 16930        | 17095           | 203.4407  | 203.14823    | 203.14823    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99591                                | Achieved          |              | 100                                  |
| 16940        | 17105           | 203.38036 | 203.11638    | 203.11638    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99154                                | Achieved          |              | 100                                  |
| 16950        | 17115           | 203.34423 | 203.11937    | 203.11937    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96705                                | Achieved          |              | 100                                  |
| 16960        | 17125           | 203.32103 | 203.12457    | 203.12457    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98237                                | Achieved          |              | 100                                  |
| 16970        | 17135           | 203.30207 | 203.12775    | 203.12775    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9775                                 | Achieved          |              | 100                                  |
| 16980        | 17145           | 203.27045 | 203.11606    | 203.11606    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9724                                 | Achieved          |              | 100                                  |
| 16990        | 17155           | 203.28347 | 203.12675    | 203.12675    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96708                                | Achieved          |              | 100                                  |
| 17000        | 17165           | 203.31269 | 203.14141    | 203.14141    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9617                                 | Achieved          |              | 100                                  |
| 17010        | 17175           | 203.33396 | 203.17483    | 203.17483    | 100          | 0.0                 |               |                         |                        |                         |  |                   |              |                                      |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction | SSD Speed Achieved EDD Zacc RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|-------------|---------------------------------------|
| 17360        | 17525           | 202.42609 | 202.10436    | 202.10436    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00493                                | Achieved          |             | 100                                   |
| 17370        | 17535           | 202.39991 | 202.13963    | 202.13963    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00347                                | Achieved          |             | 100                                   |
| 17380        | 17545           | 202.35256 | 202.19208    | 202.19208    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00198                                | Achieved          |             | 100                                   |
| 17390        | 17555           | 202.36552 | 202.25699    | 202.25699    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00049                                | Achieved          |             | 100                                   |
| 17400        | 17565           | 202.37361 | 202.31909    | 202.31909    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99899                                | Achieved          |             | 100                                   |
| 17410        | 17575           | 202.37863 | 202.40066    | 202.40066    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9975                                 | Achieved          |             | 100                                   |
| 17420        | 17585           | 202.37415 | 202.44402    | 202.44402    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9961                                 | Achieved          |             | 100                                   |
| 17430        | 17595           | 202.3443  | 202.49763    | 202.49763    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99613                                | Achieved          |             | 100                                   |
| 17440        | 17605           | 202.31875 | 202.5626     | 202.5626     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99829                                | Achieved          |             | 100                                   |
| 17450        | 17615           | 202.30503 | 202.61662    | 202.61662    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01152                                | Achieved          |             | 100                                   |
| 17460        | 17625           | 202.29142 | 202.65925    | 202.65925    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17470        | 17635           | 202.27039 | 202.68426    | 202.68426    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17480        | 17645           | 202.2707  | 202.7479     | 202.7479     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17490        | 17655           | 202.30952 | 202.7865     | 202.7865     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17500        | 17665           | 202.34961 | 202.82345    | 202.82345    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17510        | 17675           | 202.33824 | 202.8929     | 202.8929     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17520        | 17685           | 202.38507 | 202.97388    | 202.97388    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17530        | 17695           | 202.42284 | 203.03027    | 203.03027    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17540        | 17705           | 202.46192 | 203.06839    | 203.06839    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17550        | 17715           | 202.52628 | 203.10881    | 203.10881    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17560        | 17725           | 202.58636 | 203.17303    | 203.17303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17570        | 17735           | 202.66221 | 203.23993    | 203.23993    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17580        | 17745           | 202.71562 | 203.27464    | 203.27464    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17590        | 17755           | 202.77182 | 203.31395    | 203.31395    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17600        | 17765           | 202.826   | 203.32348    | 203.32348    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17610        | 17775           | 202.89219 | 203.36004    | 203.36004    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17620        | 17785           | 202.93631 | 203.41895    | 203.41895    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17630        | 17795           | 202.96322 | 203.46939    | 203.46939    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17640        | 17805           | 203.0154  | 203.49887    | 203.49887    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17650        | 17815           | 203.06937 | 203.56811    | 203.56811    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17660        | 17825           | 203.1028  | 203.64224    | 203.64224    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17670        | 17835           | 203.14894 | 203.70579    | 203.70579    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17680        | 17845           | 203.23634 | 203.76935    | 203.76935    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17690        | 17855           | 203.30436 | 203.85187    | 203.85187    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17700        | 17865           | 203.3533  | 203.94095    | 203.94095    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17710        | 17875           | 203.38933 | 204.01094    | 204.01094    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17720        | 17885           | 203.43772 | 204.0714     | 204.0714     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17730        | 17895           | 203.51052 | 204.12604    | 204.12604    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17740        | 17905           | 203.55744 | 204.17591    | 204.17591    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17750        | 17915           | 203.59578 | 204.23972    | 204.23972    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17760        | 17925           | 203.62376 | 204.32019    | 204.32019    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17770        | 17935           | 203.63491 | 204.39155    | 204.39155    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17780        | 17945           | 203.68895 | 204.45821    | 204.45821    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17790        | 17955           | 203.74847 | 204.51993    | 204.51993    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17800        | 17965           | 203.78275 | 204.60963    | 204.60963    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17810        | 17975           | 203.83184 | 204.67139    | 204.67139    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17820        | 17985           | 203.90782 | 204.74962    | 204.74962    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17830        | 17995           | 203.97254 | 204.84737    | 204.84737    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17840        | 18005           | 204.04005 | 204.94182    | 204.94182    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17850        | 18015           | 204.10585 | 205.03873    | 205.03873    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17860        | 18025           | 204.19798 | 205.10098    | 205.10098    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17870        | 18035           | 204.28233 | 205.16089    | 205.16089    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17880        | 18045           | 204.33759 | 205.19958    | 205.19958    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17890        | 18055           | 204.40345 | 205.24748    | 205.24748    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17900        | 18065           | 204.44941 | 205.30808    | 205.30808    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17910        | 18075           | 204.50621 | 205.36341    | 205.36341    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17920        | 18085           | 204.57907 | 205.4297     | 205.4297     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17930        | 18095           | 204.65399 | 205.48518    | 205.48518    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17940        | 18105           | 204.72723 | 205.53979    | 205.53979    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17950        | 18115           | 204.78529 | 205.5757     | 205.5757     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99871                                | Achieved          |             | 100                                   |
| 17960        | 18125           | 204.86441 | 205.59838    | 205.59838    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99909                                | Achieved          |             | 100                                   |
| 17970        | 18135           | 204.94525 | 205.62155    | 205.62155    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17980        | 18145           | 205.01301 | 205.64547    | 205.64547    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17990        | 18155           | 205.09242 | 205.68054    | 205.68054    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 18000        | 18165           | 205.19699 | 205.70097    | 205.70097    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99559                                | Achieved          |             | 100                                   |
| 18010        | 18175           | 205.28968 | 205.71169    | 205.71169    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99555                                | Achieved          |             | 100                                   |
| 18020        | 18185           | 205.37681 | 205.74578    | 205.74578    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99552                                | Achieved          |             | 100                                   |
| 18030        | 18195           | 205.42523 | 205.78416    | 205.78416    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99549                                | Achieved          |             | 100                                   |
| 18040        | 18205           | 205.48131 | 205.82317    | 205.82317    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99547                                | Achieved          |             | 100                                   |
| 18050        | 18215           | 205.52081 | 205.8723     | 205.8723     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99545                                | Achieved          |             | 100                                   |
| 18060        | 18225           | 205.57607 | 205.89132    | 205.89132    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99544                                | Achieved          |             | 100                                   |
| 18070        | 18235           | 205.63475 | 205.9114     | 205.9114     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99543                                | Achieved          |             | 100                                   |
| 18080        | 18245           | 205.69392 | 205.91122    | 205.91122    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99543                                | Achieved          |             | 100                                   |
| 18090        | 18255           | 205.75858 | 205.89408    | 205.89408    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99543                                | Achieved          |             | 100                                   |
| 18100        | 18265           | 205.81067 | 205.88595    | 205.88595    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99544                                | Achieved          |             | 100                                   |
| 18110        | 18275           | 205.86456 | 205.90164    | 205.90164    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99546                                | Achieved          |             | 100                                   |
| 18120        | 18285           | 205.88683 | 205.954      | 205.954      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99547                                | Achieved          |             | 100                                   |
| 18130        | 18295           | 205.9025  | 205.98033    | 205.98033    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9955                                 | Achieved          |             | 100                                   |
| 18140        | 18305           | 205.93123 | 205.99477    | 205.99477    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99553                                | Achieved          |             | 100                                   |
| 18150        | 18315           | 205.9681  | 206.00406    | 206.00406    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99556                                | Achieved          |             | 100                                   |
| 18160        | 18325           | 205.98687 | 206.06521    | 206.06521    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99556                                | Achieved          |             | 100                                   |
| 18170        | 18335           | 206.00103 | 206.07886    | 206.07886    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 18180        | 18345           | 206.03068 | 206.10582    | 206.10582    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9964                                 | Achieved          |             | 100                                   |
|              |                 |           |              |              |              |                     |               |                         |                        |                         |  |                   |             |                                       |



Birralee Main Road (A1701) – Counter Direction (CD)

Stopping Sight Distance

Car Driver Eye Height 1.10m to 0.8m Object Height

Continuous Chainage from Link 08

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction | SSD Speed Achieved EDD 2sec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|-------------|---------------------------------------|
| 18462.211    | 18297.211       | 207.76003 | 205.96309    | 205.96309    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.7417                                 | Achieved          |             | 100                                   |
| 18452.211    | 18287.211       | 207.54392 | 205.9484     | 205.9484     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.26637                                | Achieved          |             | 100                                   |
| 18442.211    | 18277.211       | 207.25952 | 205.92147    | 205.92147    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.61709                                | Achieved          |             | 100                                   |
| 18432.211    | 18267.211       | 207.09262 | 205.91808    | 205.91808    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.83746                                | Achieved          |             | 100                                   |
| 18422.211    | 18257.211       | 206.93698 | 205.90511    | 205.90511    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93659                                | Achieved          |             | 100                                   |
| 18412.211    | 18247.211       | 206.79911 | 205.91302    | 205.91302    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93492                                | Achieved          |             | 100                                   |
| 18402.211    | 18237.211       | 206.66181 | 205.8992     | 205.8992     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.97128                                | Achieved          |             | 100                                   |
| 18392.211    | 18227.211       | 206.56231 | 205.86132    | 205.86132    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98619                                | Achieved          |             | 100                                   |
| 18382.211    | 18217.211       | 206.52334 | 205.85238    | 205.85238    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00016                                | Achieved          |             | 100                                   |
| 18372.211    | 18207.211       | 206.47949 | 205.80231    | 205.80231    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01409                                | Achieved          |             | 100                                   |
| 18362.211    | 18197.211       | 206.45018 | 205.78747    | 205.78747    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01611                                | Achieved          |             | 100                                   |
| 18352.211    | 18187.211       | 206.40801 | 205.79433    | 205.79433    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00894                                | Achieved          |             | 100                                   |
| 18342.211    | 18177.211       | 206.38393 | 205.7084     | 205.7084     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0015                                 | Achieved          |             | 100                                   |
| 18332.211    | 18167.211       | 206.35646 | 205.67677    | 205.67677    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00163                                | Achieved          |             | 100                                   |
| 18322.211    | 18157.211       | 206.33497 | 205.66834    | 205.66834    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00438                                | Achieved          |             | 100                                   |
| 18312.211    | 18147.211       | 206.29682 | 205.63701    | 205.63701    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00434                                | Achieved          |             | 100                                   |
| 18302.211    | 18137.211       | 206.25786 | 205.60668    | 205.60668    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00431                                | Achieved          |             | 100                                   |
| 18292.211    | 18127.211       | 206.26306 | 205.5766     | 205.5766     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00428                                | Achieved          |             | 100                                   |
| 18282.211    | 18117.211       | 206.22423 | 205.5618     | 205.5618     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00426                                | Achieved          |             | 100                                   |
| 18272.211    | 18107.211       | 206.22296 | 205.5207     | 205.5207     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00424                                | Achieved          |             | 100                                   |
| 18262.211    | 18097.211       | 206.20476 | 205.47324    | 205.47324    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00423                                | Achieved          |             | 100                                   |
| 18252.211    | 18087.211       | 206.21102 | 205.41513    | 205.41513    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00422                                | Achieved          |             | 100                                   |
| 18242.211    | 18077.211       | 206.21373 | 205.34648    | 205.34648    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00422                                | Achieved          |             | 100                                   |
| 18232.211    | 18067.211       | 206.17478 | 205.29103    | 205.29103    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00422                                | Achieved          |             | 100                                   |
| 18222.211    | 18057.211       | 206.15609 | 205.23499    | 205.23499    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00423                                | Achieved          |             | 100                                   |
| 18212.211    | 18047.211       | 206.13197 | 205.19169    | 205.19169    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00424                                | Achieved          |             | 100                                   |
| 18202.211    | 18037.211       | 206.0828  | 205.14149    | 205.14149    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00426                                | Achieved          |             | 100                                   |
| 18192.211    | 18027.211       | 206.0789  | 205.06411    | 205.06411    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00428                                | Achieved          |             | 100                                   |
| 18182.211    | 18017.211       | 206.02616 | 205.00414    | 205.00414    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00431                                | Achieved          |             | 100                                   |
| 18172.211    | 18007.211       | 205.98997 | 204.9531     | 204.9531     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18162.211    | 17997.211       | 205.96828 | 204.87109    | 204.87109    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18152.211    | 17987.211       | 205.9328  | 204.76724    | 204.76724    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18142.211    | 17977.211       | 205.91567 | 204.68823    | 204.68823    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18132.211    | 17967.211       | 205.88479 | 204.58849    | 204.58849    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18122.211    | 17957.211       | 205.8719  | 204.52897    | 204.52897    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18112.211    | 17947.211       | 205.84335 | 204.44006    | 204.44006    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18102.211    | 17937.211       | 205.79619 | 204.36709    | 204.36709    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18092.211    | 17927.211       | 205.74439 | 204.27224    | 204.27224    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18082.211    | 17917.211       | 205.68225 | 204.21251    | 204.21251    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18072.211    | 17907.211       | 205.61586 | 204.17963    | 204.17963    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18062.211    | 17897.211       | 205.56281 | 204.11715    | 204.11715    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18052.211    | 17887.211       | 205.51382 | 204.04001    | 204.04001    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18042.211    | 17877.211       | 205.46988 | 203.96991    | 203.96991    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18032.211    | 17867.211       | 205.43027 | 203.96643    | 203.96643    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18022.211    | 17857.211       | 205.37996 | 203.88754    | 203.88754    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18012.211    | 17847.211       | 205.32799 | 203.77777    | 203.77777    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 18002.211    | 17837.211       | 205.2132  | 203.71616    | 203.71616    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17992.211    | 17827.211       | 205.11917 | 203.63908    | 203.63908    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17982.211    | 17817.211       | 205.02862 | 203.56817    | 203.56817    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17972.211    | 17807.211       | 204.94079 | 203.51849    | 203.51849    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17962.211    | 17797.211       | 204.86763 | 203.47379    | 203.47379    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17952.211    | 17787.211       | 204.78262 | 203.42385    | 203.42385    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17942.211    | 17777.211       | 204.70576 | 203.36347    | 203.36347    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17932.211    | 17767.211       | 204.61742 | 203.31556    | 203.31556    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17922.211    | 17757.211       | 204.53874 | 203.29502    | 203.29502    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17912.211    | 17747.211       | 204.49241 | 203.26348    | 203.26348    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17902.211    | 17737.211       | 204.45372 | 203.23228    | 203.23228    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17892.211    | 17727.211       | 204.37823 | 203.17961    | 203.17961    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17882.211    | 17717.211       | 204.30729 | 203.13861    | 203.13861    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17872.211    | 17707.211       | 204.28078 | 203.10217    | 203.10217    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17862.211    | 17697.211       | 204.23443 | 203.09335    | 203.09335    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17852.211    | 17687.211       | 204.13071 | 202.9803     | 202.9803     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17842.211    | 17677.211       | 204.04799 | 202.91461    | 202.91461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17832.211    | 17667.211       | 203.97919 | 202.8427     | 202.8427     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17822.211    | 17657.211       | 203.90163 | 202.79106    | 202.79106    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17812.211    | 17647.211       | 203.83857 | 202.74696    | 202.74696    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17802.211    | 17637.211       | 203.79237 | 202.69473    | 202.69473    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17792.211    | 17627.211       | 203.75237 | 202.64614    | 202.64614    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17782.211    | 17617.211       | 203.69762 | 202.60822    | 202.60822    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17772.211    | 17607.211       | 203.63744 | 202.56324    | 202.56324    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17762.211    | 17597.211       | 203.60709 | 202.51448    | 202.51448    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17752.211    | 17587.211       | 203.58441 | 202.46223    | 202.46223    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17742.211    | 17577.211       | 203.54009 | 202.40037    | 202.40037    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17732.211    | 17567.211       | 203.50574 | 202.31882    | 202.31882    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17722.211    | 17557.211       | 203.45699 | 202.2577     | 202.2577     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17712.211    | 17547.211       | 203.41988 | 202.19919    | 202.19919    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17702.211    | 17537.211       | 203.37919 | 202.14533    | 202.14533    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00439                                | Achieved          |             | 100                                   |
| 17692.211    | 17527.211       | 203.31669 | 202          |              |              |                     |               |                         |                        |                         |  |                   |             |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|-------------|---------------------------------------|
| 17252.211    | 17087.211       | 203.13476 | 203.14349    | 203.14349    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.48488                                | Achieved          |             | 100                                   |
| 17242.211    | 17077.211       | 203.34331 | 203.15454    | 203.15454    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92233                                | Achieved          |             | 100                                   |
| 17232.211    | 17067.211       | 203.54366 | 203.17531    | 203.17531    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.10668                                | Achieved          |             | 100                                   |
| 17222.211    | 17057.211       | 203.68359 | 203.19114    | 203.19114    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.10473                                | Achieved          |             | 100                                   |
| 17212.211    | 17047.211       | 203.70518 | 203.17334    | 203.17334    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.11002                                | Achieved          |             | 100                                   |
| 17202.211    | 17037.211       | 203.67805 | 203.10702    | 203.10702    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.10552                                | Achieved          |             | 100                                   |
| 17192.211    | 17027.211       | 203.64953 | 203.07512    | 203.07512    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08332                                | Achieved          |             | 100                                   |
| 17182.211    | 17017.211       | 203.58125 | 203.03957    | 203.03957    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04774                                | Achieved          |             | 100                                   |
| 17172.211    | 17007.211       | 203.52869 | 203.01906    | 203.01906    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02869                                | Achieved          |             | 100                                   |
| 17162.211    | 16997.211       | 203.48865 | 203.00893    | 203.00893    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02889                                | Achieved          |             | 100                                   |
| 17152.211    | 16987.211       | 203.46012 | 203.00299    | 203.00299    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02578                                | Achieved          |             | 100                                   |
| 17142.211    | 16977.211       | 203.43539 | 202.99318    | 202.99318    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02247                                | Achieved          |             | 100                                   |
| 17132.211    | 16967.211       | 203.46877 | 203.00594    | 203.00594    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01893                                | Achieved          |             | 100                                   |
| 17122.211    | 16957.211       | 203.46828 | 203.02834    | 203.02834    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01518                                | Achieved          |             | 100                                   |
| 17112.211    | 16947.211       | 203.47373 | 203.07806    | 203.07806    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01123                                | Achieved          |             | 100                                   |
| 17102.211    | 16937.211       | 203.46184 | 203.1332     | 203.1332     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00711                                | Achieved          |             | 100                                   |
| 17092.211    | 16927.211       | 203.44653 | 203.20668    | 203.20668    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00288                                | Achieved          |             | 100                                   |
| 17082.211    | 16917.211       | 203.44448 | 203.25954    | 203.25954    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17072.211    | 16907.211       | 203.47141 | 203.33549    | 203.33549    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17062.211    | 16897.211       | 203.47895 | 203.42074    | 203.42074    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17052.211    | 16887.211       | 203.49203 | 203.56788    | 203.56788    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17042.211    | 16877.211       | 203.4312  | 203.62818    | 203.62818    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17032.211    | 16867.211       | 203.39502 | 203.74028    | 203.74028    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17022.211    | 16857.211       | 203.3558  | 203.85209    | 203.85209    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17012.211    | 16847.211       | 203.32919 | 203.9332     | 203.9332     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 17002.211    | 16837.211       | 203.31418 | 204.06613    | 204.06613    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16992.211    | 16827.211       | 203.30473 | 204.22303    | 204.22303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16982.211    | 16817.211       | 203.29438 | 204.34085    | 204.34085    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16972.211    | 16807.211       | 203.29653 | 204.49556    | 204.49556    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16962.211    | 16797.211       | 203.31312 | 204.67379    | 204.67379    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16952.211    | 16787.211       | 203.32253 | 204.82266    | 204.82266    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16942.211    | 16777.211       | 203.40527 | 204.95593    | 204.95593    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16932.211    | 16767.211       | 203.47552 | 205.12663    | 205.12663    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16922.211    | 16757.211       | 203.5382  | 205.28769    | 205.28769    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16912.211    | 16747.211       | 203.59683 | 205.42786    | 205.42786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16902.211    | 16737.211       | 203.68695 | 205.52367    | 205.52367    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16892.211    | 16727.211       | 203.81755 | 205.6217     | 205.6217     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16882.211    | 16717.211       | 203.89603 | 205.75456    | 205.75456    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99301                                | Achieved          |             | 100                                   |
| 16872.211    | 16707.211       | 203.97493 | 205.831      | 205.831      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91041                                | Achieved          |             | 100                                   |
| 16862.211    | 16697.211       | 204.10185 | 205.97973    | 205.97973    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.73245                                | Achieved          |             | 100                                   |
| 16852.211    | 16687.211       | 204.18177 | 206.14595    | 206.14595    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.45102                                | Achieved          |             | 100                                   |
| 16842.211    | 16677.211       | 204.29454 | 206.36074    | 206.36074    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.02148                                | Achieved          |             | 100                                   |
| 16832.211    | 16667.211       | 204.43333 | 206.56764    | 206.56764    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.41256                                | Achieved          |             | 100                                   |
| 16822.211    | 16657.211       | 204.58204 | 206.77425    | 206.77425    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.60672                                | Achieved          |             | 100                                   |
| 16812.211    | 16647.211       | 204.71051 | 207.0033     | 207.0033     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.85881                                | Achieved          |             | 100                                   |
| 16802.211    | 16637.211       | 204.83635 | 207.24412    | 207.24412    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.77511                                | Achieved          |             | 100                                   |
| 16792.211    | 16627.211       | 205.04806 | 207.44763    | 207.44763    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.09121                                | Achieved          |             | 100                                   |
| 16782.211    | 16617.211       | 205.18277 | 207.66429    | 207.66429    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.60598                                | Achieved          |             | 100                                   |
| 16772.211    | 16607.211       | 205.34886 | 207.85941    | 207.85941    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.32128                                | Achieved          |             | 100                                   |
| 16762.211    | 16597.211       | 205.50846 | 208.04856    | 208.04856    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.23817                                | Achieved          |             | 100                                   |
| 16752.211    | 16587.211       | 205.63441 | 208.23205    | 208.23205    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.35697                                | Achieved          |             | 100                                   |
| 16742.211    | 16577.211       | 205.77077 | 208.45286    | 208.45286    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.67723                                | Achieved          |             | 100                                   |
| 16732.211    | 16567.211       | 205.86152 | 208.70786    | 208.70786    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.19773                                | Achieved          |             | 100                                   |
| 16722.211    | 16557.211       | 205.99093 | 208.97104    | 208.97104    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.91657                                | Achieved          |             | 100                                   |
| 16712.211    | 16547.211       | 206.10482 | 209.19867    | 209.19867    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.83144                                | Achieved          |             | 100                                   |
| 16702.211    | 16537.211       | 206.20484 | 209.41492    | 209.41492    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.77633                                | Achieved          |             | 100                                   |
| 16692.211    | 16527.211       | 206.36228 | 209.64546    | 209.64546    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.54332                                | Achieved          |             | 100                                   |
| 16682.211    | 16517.211       | 206.54468 | 209.89213    | 209.89213    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.11603                                | Achieved          |             | 100                                   |
| 16672.211    | 16507.211       | 206.76516 | 210.04323    | 210.04323    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.51422                                | Achieved          |             | 100                                   |
| 16662.211    | 16497.211       | 206.97303 | 210.20604    | 210.20604    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.77193                                | Achieved          |             | 100                                   |
| 16652.211    | 16487.211       | 207.19278 | 210.37998    | 210.37998    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.93022                                | Achieved          |             | 100                                   |
| 16642.211    | 16477.211       | 207.42287 | 210.5646     | 210.5646     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99253                                | Achieved          |             | 100                                   |
| 16632.211    | 16467.211       | 207.64332 | 210.7124     | 210.7124     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16622.211    | 16457.211       | 207.86008 | 210.88635    | 210.88635    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16612.211    | 16447.211       | 208.06334 | 211.09839    | 211.09839    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 16602.211    | 16437.211       | 208.25303 | 211.17254    | 211.17254    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00003                                | Achieved          |             | 100                                   |
| 16592.211    | 16427.211       | 208.43893 | 211.28114    | 211.28114    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01697                                | Achieved          |             | 100                                   |
| 16582.211    | 16417.211       | 208.63745 | 211.38607    | 211.38607    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03273                                | Achieved          |             | 100                                   |
| 16572.211    | 16407.211       | 208.87368 | 211.45265    | 211.45265    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04637                                | Achieved          |             | 100                                   |
| 16562.211    | 16397.211       | 209.14253 | 211.54052    | 211.54052    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05024                                | Achieved          |             | 100                                   |
| 16552.211    | 16387.211       | 209.389   | 211.61304    | 211.61304    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.1178                                 | Achieved          |             | 100                                   |
| 16542.211    | 16377.211       | 209.60277 | 211.68001    | 211.68001    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.19358                                | Achieved          |             | 100                                   |
| 16532.211    | 16367.211       | 209.83246 | 211.72791    | 211.72791    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07653                                | Achieved          |             | 100                                   |
| 16522.211    | 16357.211       | 210.05434 | 211.79259    | 211.79259    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.90194                                | Achieved          |             | 100                                   |
| 16512.211    | 16347.211       | 210.25851 | 211.86321    | 211.86321    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.60272                                | Achieved          |             | 100                                   |
| 16502.211    | 16337.211       | 210.42146 | 211.94616    | 211.94616    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.19829                                | Achieved          |             | 100                                   |
| 16492.211    | 16327.211       | 210.58119 | 212.04168    | 212.04168    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.70473                                | Achieved          |             | 100                                   |
| 16482.211    | 16317.211       | 210.77693 | 212.12075    | 212.12075    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.32294                                | Achieved          |             | 100                                   |
| 16472.211    | 16307.2         |           |              |              |              |                     |               |                         |                        |                         |  |                   |             |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 16042.211    | 15877.211       | 208.09439 | 198.01766    | 198.01766    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.11194                                | Achieved          |                    | 100                                   |
| 16032.211    | 15867.211       | 207.87018 | 197.33952    | 197.33952    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.16738                                | Achieved          |                    | 100                                   |
| 16022.211    | 15857.211       | 207.592   | 196.68448    | 196.68448    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.10092                                | Achieved          |                    | 100                                   |
| 16012.211    | 15847.211       | 207.23077 | 196.03817    | 196.03817    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04078                                | Achieved          |                    | 100                                   |
| 16002.211    | 15837.211       | 206.76728 | 195.4464     | 195.4464     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03412                                | Achieved          |                    | 100                                   |
| 15992.211    | 15827.211       | 206.20077 | 194.83316    | 194.83316    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02419                                | Achieved          |                    | 100                                   |
| 15982.211    | 15817.211       | 205.56512 | 194.29416    | 194.29416    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01456                                | Achieved          |                    | 100                                   |
| 15972.211    | 15807.211       | 204.88299 | 193.74162    | 193.74162    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00737                                | Achieved          |                    | 100                                   |
| 15962.211    | 15797.211       | 204.17924 | 193.26609    | 193.26609    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00074                                | Achieved          |                    | 100                                   |
| 15952.211    | 15787.211       | 203.50803 | 192.77379    | 192.77379    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00572                                | Achieved          |                    | 100                                   |
| 15942.211    | 15777.211       | 202.87459 | 192.48726    | 192.48726    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0006                                 | Achieved          |                    | 100                                   |
| 15932.211    | 15767.211       | 202.21841 | 192.13951    | 192.13951    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00549                                | Achieved          |                    | 100                                   |
| 15922.211    | 15757.211       | 201.52772 | 191.81821    | 191.81821    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00539                                | Achieved          |                    | 100                                   |
| 15912.211    | 15747.211       | 200.8451  | 191.49036    | 191.49036    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00529                                | Achieved          |                    | 100                                   |
| 15902.211    | 15737.211       | 200.12931 | 191.18208    | 191.18208    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00447                                | Achieved          |                    | 100                                   |
| 15892.211    | 15727.211       | 199.40487 | 190.92934    | 190.92934    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00419                                | Achieved          |                    | 100                                   |
| 15882.211    | 15717.211       | 198.66681 | 190.7547     | 190.7547     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00415                                | Achieved          |                    | 100                                   |
| 15872.211    | 15707.211       | 197.97823 | 190.58992    | 190.58992    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00505                                | Achieved          |                    | 100                                   |
| 15862.211    | 15697.211       | 197.30645 | 190.41457    | 190.41457    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00778                                | Achieved          |                    | 100                                   |
| 15852.211    | 15687.211       | 196.67023 | 190.21284    | 190.21284    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.94383                                | Achieved          |                    | 100                                   |
| 15842.211    | 15677.211       | 196.04389 | 189.92779    | 189.92779    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92026                                | Achieved          |                    | 100                                   |
| 15832.211    | 15667.211       | 195.43791 | 189.60304    | 189.60304    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.77128                                | Achieved          |                    | 100                                   |
| 15822.211    | 15657.211       | 194.86833 | 189.3404     | 189.3404     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.41089                                | Achieved          |                    | 100                                   |
| 15812.211    | 15647.211       | 194.3162  | 189.10211    | 189.10211    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.91354                                | Achieved          |                    | 100                                   |
| 15802.211    | 15640.211       | 193.79107 | 188.90896    | 188.90896    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 160.49664                                | Released          | Inside Curve       | 100                                   |
| 15792.211    | 15640.211       | 193.3664  | 188.90896    | 188.90896    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 150.51042                                | Released          | Inside Curve       | 100                                   |
| 15782.211    | 15640.211       | 192.98215 | 188.90896    | 188.90896    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 140.53084                                | Released          | Inside Curve       | 100                                   |
| 15772.211    | 15638.211       | 192.61676 | 188.86321    | 188.86321    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 132.44024                                | Not Achieved      | Inside Curve       | 90                                    |
| 15762.211    | 15638.211       | 192.27157 | 188.86321    | 188.86321    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 122.47144                                | Not Achieved      | Inside Curve       | 90                                    |
| 15752.211    | 15636.211       | 191.9387  | 188.81682    | 188.81682    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 114.40011                                | Not Achieved      | Inside Curve       | 80                                    |
| 15742.211    | 15634.211       | 191.63111 | 188.7684     | 188.7684     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 106.3451                                 | Not Achieved      | Inside Curve       | 80                                    |
| 15732.211    | 15632.211       | 191.35086 | 188.71788    | 188.71788    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 98.31163                                 | Not Achieved      | Inside Curve       | 80                                    |
| 15722.211    | 15628.211       | 191.14028 | 188.6395     | 188.6395     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 92.21265                                 | Not Achieved      | Inside Curve       | 70                                    |
| 15712.211    | 15623.211       | 190.94397 | 188.53868    | 188.53868    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 89                      | 88.09296                                 | Not Achieved      | Inside Curve       | 70                                    |
| 15702.211    | 15628.211       | 190.80492 | 188.32709    | 188.32709    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 91.82693                                 | Not Achieved      | Inside Curve       | 70                                    |
| 15692.211    | 15590.211       | 190.62082 | 188.44611    | 188.44611    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 108.79603                                | Not Achieved      | Inside Curve       | 80                                    |
| 15682.211    | 15520.211       | 190.38443 | 188.5737     | 188.5737     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 160.05714                                | Released          | Vertical alignment | 100                                   |
| 15672.211    | 15520.211       | 190.09993 | 188.5737     | 188.5737     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 150.67016                                | Released          | Vertical alignment | 100                                   |
| 15662.211    | 15522.211       | 189.76884 | 188.69196    | 188.69196    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 139.23248                                | Not Achieved      | Vertical alignment | 90                                    |
| 15652.211    | 15522.211       | 189.52281 | 188.69196    | 188.69196    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 129.60222                                | Not Achieved      | Vertical alignment | 90                                    |
| 15642.211    | 15522.211       | 189.26328 | 188.69196    | 188.69196    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 120                     | 119.80723                                | Not Achieved      | Vertical alignment | 90                                    |
| 15632.211    | 15524.211       | 189.01788 | 188.62698    | 188.62698    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 107.90136                                | Not Achieved      | Vertical alignment | 80                                    |
| 15622.211    | 15524.211       | 188.82868 | 188.62698    | 188.62698    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 97.97407                                 | Not Achieved      | Vertical alignment | 70                                    |
| 15612.211    | 15524.211       | 188.67165 | 188.62698    | 188.62698    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 88                                       | Not Achieved      | Vertical alignment | 70                                    |
| 15602.211    | 15524.211       | 188.53034 | 188.62698    | 188.62698    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 78                                       | Not Achieved      | Vertical alignment | 65                                    |
| 15592.211    | 15524.211       | 188.3574  | 188.62698    | 188.62698    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 68                      | 68                                       | Not Achieved      | Vertical alignment | 60                                    |
| 15582.211    | 15524.211       | 188.70423 | 188.62698    | 188.62698    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 58                      | 58                                       | Not Achieved      | Vertical alignment | 55                                    |
| 15572.211    | 15522.211       | 188.89706 | 188.69196    | 188.69196    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 50                      | 50                                       | Not Achieved      | Vertical alignment | 50                                    |
| 15562.211    | 15516.211       | 189.30286 | 188.2671     | 188.2671     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 46                      | 46                                       | Not Achieved      | Vertical alignment | 45                                    |
| 15552.211    | 15387.211       | 189.63847 | 184.86021    | 184.86021    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.81799                                | Achieved          |                    | 100                                   |
| 15542.211    | 15377.211       | 189.84341 | 184.83888    | 184.83888    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.78111                                | Achieved          |                    | 100                                   |
| 15532.211    | 15367.211       | 189.59245 | 184.86831    | 184.86831    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.78144                                | Achieved          |                    | 100                                   |
| 15522.211    | 15357.211       | 188.99196 | 184.89671    | 184.89671    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.83881                                | Achieved          |                    | 100                                   |
| 15512.211    | 15347.211       | 188.27333 | 184.86833    | 184.86833    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.00125                                | Achieved          |                    | 100                                   |
| 15502.211    | 15337.211       | 187.53767 | 184.83022    | 184.83022    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.17497                                | Achieved          |                    | 100                                   |
| 15492.211    | 15327.211       | 186.84688 | 184.83303    | 184.83303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.30725                                | Achieved          |                    | 100                                   |
| 15482.211    | 15317.211       | 186.34798 | 184.79231    | 184.79231    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.24249                                | Achieved          |                    | 100                                   |
| 15472.211    | 15307.211       | 186.00934 | 184.69022    | 184.69022    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.05811                                | Achieved          |                    | 100                                   |
| 15462.211    | 15297.211       | 185.7087  | 184.60637    | 184.60637    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.00007                                | Achieved          |                    | 100                                   |
| 15452.211    | 15287.211       | 185.67808 | 184.63747    | 184.63747    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.21212                                | Achieved          |                    | 100                                   |
| 15442.211    | 15277.211       | 185.5698  | 184.61603    | 184.61603    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.79677                                | Achieved          |                    | 100                                   |
| 15432.211    | 15267.211       | 185.50372 | 185.10044    | 185.10044    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.42611                                | Achieved          |                    | 100                                   |
| 15422.211    | 15257.211       | 185.49326 | 185.51669    | 185.51669    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.2633                                 | Achieved          |                    | 100                                   |
| 15412.211    | 15247.211       | 185.3856  | 185.9418     | 185.9418     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.21853                                | Achieved          |                    | 100                                   |
| 15402.211    | 15237.211       | 185.24348 | 186.23311    | 186.23311    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.30903                                | Achieved          |                    | 100                                   |
| 15392.211    | 15227.211       | 185.18661 | 186.33243    | 186.33243    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.52233                                | Achieved          |                    | 100                                   |
| 15382.211    | 15217.211       | 185.14208 | 186.33       | 186.33       | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.77139                                | Achieved          |                    | 100                                   |
| 15372.211    | 15207.211       | 185.13098 | 186.31098    | 186.31098    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.11601                                | Achieved          |                    | 100                                   |
| 15362.211    | 15197.211       | 185.18386 | 186.26221    | 186.26221    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.52517                                | Achieved          |                    | 100                                   |
| 15352.211    | 15187.211       | 185.19138 | 186.20745    | 186.20745    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.89293                                | Achieved          |                    | 100                                   |
| 15342.211    | 15177.211       | 185.20069 | 186.21066    | 186.21066    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.21269                                | Achieved          |                    | 100                                   |
| 15332.211    | 15167.211       | 185.12509 | 186.19624    | 186.19624    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.40998                                | Achieved          |                    | 100                                   |
| 15322.211    | 15157.211       | 185.12198 | 186.13263    | 186.13263    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.72039                                | Achieved          |                    | 100                                   |
| 15312.211    | 15147.211       | 185.0471  | 186.1066     | 186.1066     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.8624                                 | Achieved          |                    | 100                                   |
| 15302.211    | 15134.211       | 184.94081 | 186.14183    | 186.14183    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 148                     | 147.93591                                | Released          | Vertical alignment | 100                                   |
| 15292.211    | 15164.211       | 184.91323 | 186.18278    | 186.18278    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 127.99118                                | Not Achieved      | Vertical alignment | 90                                    |
| 15282.211    | 15164.211       | 185.01258 | 186.18278    | 186.18278    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 118                     | 118.00166                                | Not Achieved      | Vertical alignment | 80                                    |
| 15272.211    | 15146.211       | 185.24613 |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 14832.211    | 14702.211       | 183.82505 | 183.85256    | 183.85256    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 129.7409                                 | Not Achieved      | Vertical alignment | 90                                    |
| 14822.211    | 14700.211       | 183.85644 | 183.74523    | 183.74523    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 121.73622                                | Not Achieved      | Vertical alignment | 90                                    |
| 14812.211    | 14696.211       | 183.92217 | 183.52993    | 183.52993    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 115.7246                                 | Not Achieved      | Vertical alignment | 80                                    |
| 14802.211    | 14692.211       | 183.93832 | 183.31961    | 183.31961    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 109.7176                                 | Not Achieved      | Vertical alignment | 80                                    |
| 14792.211    | 14627.211       | 183.92477 | 181.9356     | 181.9356     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.61219                                | Achieved          |                    | 100                                   |
| 14782.211    | 14617.211       | 183.91374 | 181.93319    | 181.93319    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.6107                                 | Achieved          |                    | 100                                   |
| 14772.211    | 14607.211       | 183.86201 | 181.26586    | 181.26586    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.63359                                | Achieved          |                    | 100                                   |
| 14762.211    | 14597.211       | 183.82633 | 181.21064    | 181.21064    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.73276                                | Achieved          |                    | 100                                   |
| 14752.211    | 14587.211       | 183.77354 | 181.18667    | 181.18667    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.78231                                | Achieved          |                    | 100                                   |
| 14742.211    | 14577.211       | 183.72576 | 181.35736    | 181.35736    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.82229                                | Achieved          |                    | 100                                   |
| 14732.211    | 14567.211       | 183.67959 | 181.62345    | 181.62345    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.8749                                 | Achieved          |                    | 100                                   |
| 14722.211    | 14557.211       | 183.63229 | 181.84811    | 181.84811    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.91153                                | Achieved          |                    | 100                                   |
| 14712.211    | 14547.211       | 183.58503 | 182.02449    | 182.02449    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94274                                | Achieved          |                    | 100                                   |
| 14702.211    | 14537.211       | 183.53777 | 182.19187    | 182.19187    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.965                                  | Achieved          |                    | 100                                   |
| 14692.211    | 14527.211       | 183.49051 | 182.28326    | 182.28326    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.97993                                | Achieved          |                    | 100                                   |
| 14682.211    | 14517.211       | 183.44325 | 182.31926    | 182.31926    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98661                                | Achieved          |                    | 100                                   |
| 14672.211    | 14507.211       | 183.39599 | 182.35491    | 182.35491    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98706                                | Achieved          |                    | 100                                   |
| 14662.211    | 14497.211       | 183.34873 | 182.45665    | 182.45665    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98705                                | Achieved          |                    | 100                                   |
| 14652.211    | 14487.211       | 183.30147 | 182.53825    | 182.53825    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98709                                | Achieved          |                    | 100                                   |
| 14642.211    | 14477.211       | 183.25421 | 182.59579    | 182.59579    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98716                                | Achieved          |                    | 100                                   |
| 14632.211    | 14467.211       | 183.20695 | 182.67801    | 182.67801    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98722                                | Achieved          |                    | 100                                   |
| 14622.211    | 14457.211       | 183.15969 | 182.74244    | 182.74244    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98743                                | Achieved          |                    | 100                                   |
| 14612.211    | 14447.211       | 183.11243 | 182.82471    | 182.82471    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98765                                | Achieved          |                    | 100                                   |
| 14602.211    | 14437.211       | 183.06517 | 182.92001    | 182.92001    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9923                                 | Achieved          |                    | 100                                   |
| 14592.211    | 14427.211       | 183.01791 | 182.93336    | 182.93336    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9942                                 | Achieved          |                    | 100                                   |
| 14582.211    | 14417.211       | 182.97065 | 182.97631    | 182.97631    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9946                                 | Achieved          |                    | 100                                   |
| 14572.211    | 14407.211       | 182.92339 | 182.65047    | 182.65047    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00033                                | Achieved          |                    | 100                                   |
| 14562.211    | 14397.211       | 182.87613 | 182.74334    | 182.74334    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00033                                | Achieved          |                    | 100                                   |
| 14552.211    | 14387.211       | 182.82887 | 182.84228    | 182.84228    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00034                                | Achieved          |                    | 100                                   |
| 14542.211    | 14377.211       | 182.78161 | 182.98867    | 182.98867    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00252                                | Achieved          |                    | 100                                   |
| 14532.211    | 14367.211       | 182.73435 | 183.15178    | 183.15178    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00251                                | Achieved          |                    | 100                                   |
| 14522.211    | 14357.211       | 182.68709 | 183.28225    | 183.28225    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00251                                | Achieved          |                    | 100                                   |
| 14512.211    | 14347.211       | 182.63983 | 183.39008    | 183.39008    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00251                                | Achieved          |                    | 100                                   |
| 14502.211    | 14337.211       | 182.59257 | 183.50229    | 183.50229    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00251                                | Achieved          |                    | 100                                   |
| 14492.211    | 14327.211       | 182.54531 | 183.68813    | 183.68813    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99784                                | Achieved          |                    | 100                                   |
| 14482.211    | 14317.211       | 182.49805 | 183.89801    | 183.89801    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99478                                | Achieved          |                    | 100                                   |
| 14472.211    | 14307.211       | 182.45079 | 184.0791     | 184.0791     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99167                                | Achieved          |                    | 100                                   |
| 14462.211    | 14297.211       | 182.40353 | 184.26912    | 184.26912    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99373                                | Achieved          |                    | 100                                   |
| 14452.211    | 14287.211       | 182.35627 | 184.52425    | 184.52425    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9972                                 | Achieved          |                    | 100                                   |
| 14442.211    | 14277.211       | 182.30901 | 184.78045    | 184.78045    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99814                                | Achieved          |                    | 100                                   |
| 14432.211    | 14267.211       | 182.26175 | 184.99145    | 184.99145    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00165                                | Achieved          |                    | 100                                   |
| 14422.211    | 14257.211       | 182.21449 | 185.16936    | 185.16936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00482                                | Achieved          |                    | 100                                   |
| 14412.211    | 14247.211       | 182.16723 | 185.34862    | 185.34862    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00722                                | Achieved          |                    | 100                                   |
| 14402.211    | 14237.211       | 182.12000 | 185.4901     | 185.4901     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00952                                | Achieved          |                    | 100                                   |
| 14392.211    | 14227.211       | 182.07274 | 185.65113    | 185.65113    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01172                                | Achieved          |                    | 100                                   |
| 14382.211    | 14217.211       | 182.02548 | 185.89005    | 185.89005    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01381                                | Achieved          |                    | 100                                   |
| 14372.211    | 14207.211       | 181.97822 | 186.21122    | 186.21122    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01579                                | Achieved          |                    | 100                                   |
| 14362.211    | 14197.211       | 181.93096 | 186.57663    | 186.57663    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01833                                | Achieved          |                    | 100                                   |
| 14352.211    | 14187.211       | 181.88370 | 186.95845    | 186.95845    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02191                                | Achieved          |                    | 100                                   |
| 14342.211    | 14177.211       | 181.83644 | 187.28226    | 187.28226    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02617                                | Achieved          |                    | 100                                   |
| 14332.211    | 14167.211       | 181.78918 | 187.57979    | 187.57979    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.03131                                | Achieved          |                    | 100                                   |
| 14322.211    | 14157.211       | 181.74192 | 187.81192    | 187.81192    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0378                                 | Achieved          |                    | 100                                   |
| 14312.211    | 14147.211       | 181.69466 | 187.92136    | 187.92136    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.04509                                | Achieved          |                    | 100                                   |
| 14302.211    | 14137.211       | 181.64740 | 187.93294    | 187.93294    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05333                                | Achieved          |                    | 100                                   |
| 14292.211    | 14127.211       | 181.60014 | 187.97384    | 187.97384    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.06267                                | Achieved          |                    | 100                                   |
| 14282.211    | 14117.211       | 181.55288 | 188.00173    | 188.00173    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98841                                | Achieved          |                    | 100                                   |
| 14272.211    | 14107.211       | 181.50562 | 188.03651    | 188.03651    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94243                                | Achieved          |                    | 100                                   |
| 14262.211    | 14097.211       | 181.45836 | 188.07753    | 188.07753    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.89177                                | Achieved          |                    | 100                                   |
| 14252.211    | 14087.211       | 181.41110 | 188.06066    | 188.06066    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.83232                                | Achieved          |                    | 100                                   |
| 14242.211    | 14077.211       | 181.36384 | 188.05936    | 188.05936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.79733                                | Achieved          |                    | 100                                   |
| 14232.211    | 14067.211       | 181.31658 | 187.9843     | 187.9843     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.77449                                | Achieved          |                    | 100                                   |
| 14222.211    | 14058.211       | 181.26932 | 187.99306    | 187.99306    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 154                     | 153.84803                                | Released          | Vertical alignment | 100                                   |
| 14212.211    | 14048.211       | 181.22206 | 187.88068    | 187.88068    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 151.88042                                | Released          | Vertical alignment | 100                                   |
| 14202.211    | 14044.211       | 181.17480 | 187.99338    | 187.99338    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 158                     | 157.91632                                | Released          | Vertical alignment | 100                                   |
| 14192.211    | 14034.211       | 181.12754 | 187.81631    | 187.81631    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 158                     | 157.85197                                | Released          | Vertical alignment | 100                                   |
| 14182.211    | 14024.211       | 181.08028 | 187.29361    | 187.29361    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.96893                                | Achieved          |                    | 100                                   |
| 14172.211    | 14014.211       | 181.03302 | 187.35236    | 187.35236    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02518                                | Achieved          |                    | 100                                   |
| 14162.211    | 13999.211       | 180.98576 | 187.42374    | 187.42374    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.13959                                | Achieved          |                    | 100                                   |
| 14152.211    | 13989.211       | 180.93850 | 187.43697    | 187.43697    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.1991                                 | Achieved          |                    | 100                                   |
| 14142.211    | 13979.211       | 180.89124 | 187.37126    | 187.37126    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.2705                                 | Achieved          |                    | 100                                   |
| 14132.211    | 13969.211       | 180.84398 | 187.45239    | 187.45239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.35822                                | Achieved          |                    | 100                                   |
| 14122.211    | 13959.211       | 180.79672 | 186.87803    | 186.87803    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.50081                                | Achieved          |                    | 100                                   |
| 14112.211    | 13949.211       | 180.74946 | 186.44839    | 186.44839    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.15228                                | Achieved          |                    | 100                                   |
| 14102.211    | 13944.211       | 180.70220 | 186.39997    | 186.39997    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 156                     | 155.19866                                | Released          | Inside Curve       | 100                                   |
| 14092.211    | 13944.211       | 180.65494 | 186.30128    | 186.30128    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 148                     | 147.11933                                | Released          | Inside Curve       | 100                                   |
| 14082.211    | 13942.211       | 180.60768 | 186.20034    | 186.20034    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 139.09352                                | Not Achieved      | Inside Curve       | 90                                    |
| 14072.211    | 13938.211       | 180.56042 | 185.99546    | 185.99546    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 132.9918                                 | Not Achieved      | Inside Curve       | 90                                    |
| 14062.211    |                 |           |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 13622.211    | 13437.211       | 185.02345 | 186.39064    | 186.39064    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 157.27636                                | Achieved          |                    | 100                                   |
| 13612.211    | 13447.211       | 185.23249 | 186.46078    | 186.46078    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 156.13957                                | Achieved          |                    | 100                                   |
| 13602.211    | 13437.211       | 185.44997 | 186.49183    | 186.49183    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.04993                                | Achieved          |                    | 100                                   |
| 13592.211    | 13427.211       | 185.65649 | 186.44332    | 186.44332    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.81432                                | Achieved          |                    | 100                                   |
| 13582.211    | 13417.211       | 185.84183 | 186.32279    | 186.32279    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.47821                                | Achieved          |                    | 100                                   |
| 13572.211    | 13407.211       | 186.03216 | 186.10678    | 186.10678    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.06354                                | Achieved          |                    | 100                                   |
| 13562.211    | 13410.211       | 186.10297 | 186.18272    | 186.18272    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 149.00006                                | Relaxed           | Vertical alignment | 100                                   |
| 13552.211    | 13411.211       | 186.05662 | 186.2224     | 186.2224     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 137.61203                                | Not Achieved      | Vertical alignment | 90                                    |
| 13542.211    | 13416.211       | 185.94183 | 186.30561    | 186.30561    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 126                     | 124.14793                                | Not Achieved      | Vertical alignment | 90                                    |
| 13532.211    | 13416.211       | 185.87761 | 186.30561    | 186.30561    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 114.34696                                | Not Achieved      | Vertical alignment | 80                                    |
| 13522.211    | 13414.211       | 185.80786 | 186.26876    | 186.26876    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 106.39382                                | Not Achieved      | Vertical alignment | 80                                    |
| 13512.211    | 13410.211       | 185.84087 | 186.18272    | 186.18272    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 100.42028                                | Not Achieved      | Vertical alignment | 80                                    |
| 13502.211    | 13402.211       | 186.04854 | 185.95875    | 185.95875    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 98.39843                                 | Not Achieved      | Vertical alignment | 80                                    |
| 13492.211    | 13392.211       | 186.21042 | 185.9914     | 185.9914     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 98.50158                                 | Not Achieved      | Vertical alignment | 80                                    |
| 13482.211    | 13374.211       | 186.36926 | 184.84099    | 184.84099    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 106.79971                                | Not Achieved      | Vertical alignment | 80                                    |
| 13472.211    | 13368.211       | 186.53084 | 184.50785    | 184.50785    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 104                     | 103.39875                                | Not Achieved      | Vertical alignment | 80                                    |
| 13462.211    | 13366.211       | 186.64759 | 184.38026    | 184.38026    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 96                      | 95.83376                                 | Not Achieved      | Vertical alignment | 70                                    |
| 13452.211    | 13360.211       | 186.79035 | 184.01936    | 184.01936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 92.09238                                 | Not Achieved      | Vertical alignment | 70                                    |
| 13442.211    | 13277.211       | 186.78984 | 183.35568    | 183.35568    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01653                                | Achieved          |                    | 100                                   |
| 13432.211    | 13267.211       | 186.78025 | 183.29297    | 183.29297    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.76489                                | Achieved          |                    | 100                                   |
| 13422.211    | 13257.211       | 186.98487 | 183.17947    | 183.17947    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.17811                                | Achieved          |                    | 100                                   |
| 13412.211    | 13247.211       | 186.3224  | 183.01288    | 183.01288    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.34991                                | Achieved          |                    | 100                                   |
| 13402.211    | 13237.211       | 186.23875 | 182.84633    | 182.84633    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.42729                                | Achieved          |                    | 100                                   |
| 13392.211    | 13227.211       | 185.8914  | 182.61595    | 182.61595    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 160.97798                                | Achieved          |                    | 100                                   |
| 13382.211    | 13217.211       | 185.49266 | 182.24734    | 182.24734    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.12621                                | Achieved          |                    | 100                                   |
| 13372.211    | 13207.211       | 185.03992 | 181.79442    | 181.79442    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 157.31319                                | Achieved          |                    | 100                                   |
| 13362.211    | 13197.211       | 184.43222 | 181.32933    | 181.32933    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 155.7284                                 | Achieved          |                    | 100                                   |
| 13352.211    | 13187.211       | 183.86046 | 180.86667    | 180.86667    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 154.42298                                | Achieved          |                    | 100                                   |
| 13342.211    | 13177.211       | 183.47952 | 180.41304    | 180.41304    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 153.51933                                | Achieved          |                    | 100                                   |
| 13332.211    | 13167.211       | 183.29515 | 179.9495     | 179.9495     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 153.07784                                | Achieved          |                    | 100                                   |
| 13322.211    | 13157.211       | 183.32563 | 179.59667    | 179.59667    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 153.11016                                | Achieved          |                    | 100                                   |
| 13312.211    | 13147.211       | 183.43172 | 179.24205    | 179.24205    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 153.8392                                 | Achieved          |                    | 100                                   |
| 13302.211    | 13137.211       | 183.53365 | 178.92392    | 178.92392    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 154.64469                                | Achieved          |                    | 100                                   |
| 13292.211    | 13127.211       | 183.61534 | 178.68337    | 178.68337    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 155.01991                                | Achieved          |                    | 100                                   |
| 13282.211    | 13117.211       | 183.66569 | 178.49905    | 178.49905    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 157.59339                                | Achieved          |                    | 100                                   |
| 13272.211    | 13107.211       | 183.63817 | 178.35148    | 178.35148    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 159.54158                                | Achieved          |                    | 100                                   |
| 13262.211    | 13097.211       | 183.54178 | 178.23548    | 178.23548    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 161.33999                                | Achieved          |                    | 100                                   |
| 13252.211    | 13087.211       | 183.40026 | 178.13985    | 178.13985    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.6693                                 | Achieved          |                    | 100                                   |
| 13242.211    | 13077.211       | 183.2314  | 178.04239    | 178.04239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.63069                                | Achieved          |                    | 100                                   |
| 13232.211    | 13067.211       | 183.03946 | 177.90475    | 177.90475    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.27561                                | Achieved          |                    | 100                                   |
| 13222.211    | 13057.211       | 182.76202 | 177.72934    | 177.72934    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.66638                                | Achieved          |                    | 100                                   |
| 13212.211    | 13047.211       | 182.31805 | 177.52987    | 177.52987    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.84484                                | Achieved          |                    | 100                                   |
| 13202.211    | 13037.211       | 181.86281 | 177.44832    | 177.44832    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.90609                                | Achieved          |                    | 100                                   |
| 13192.211    | 13027.211       | 181.39088 | 177.41742    | 177.41742    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.93557                                | Achieved          |                    | 100                                   |
| 13182.211    | 13017.211       | 180.92522 | 177.43683    | 177.43683    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.90369                                | Achieved          |                    | 100                                   |
| 13172.211    | 13007.211       | 180.46406 | 177.50271    | 177.50271    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00901                                | Achieved          |                    | 100                                   |
| 13162.211    | 12997.211       | 180.07281 | 177.57917    | 177.57917    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01576                                | Achieved          |                    | 100                                   |
| 13152.211    | 12987.211       | 179.71974 | 177.62347    | 177.62347    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01764                                | Achieved          |                    | 100                                   |
| 13142.211    | 12977.211       | 179.37432 | 177.66805    | 177.66805    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01713                                | Achieved          |                    | 100                                   |
| 13132.211    | 12967.211       | 179.08814 | 177.67296    | 177.67296    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01672                                | Achieved          |                    | 100                                   |
| 13122.211    | 12957.211       | 178.87989 | 177.6919     | 177.6919     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01641                                | Achieved          |                    | 100                                   |
| 13112.211    | 12947.211       | 178.71659 | 177.63114    | 177.63114    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0162                                 | Achieved          |                    | 100                                   |
| 13102.211    | 12937.211       | 178.58971 | 177.54797    | 177.54797    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0161                                 | Achieved          |                    | 100                                   |
| 13092.211    | 12927.211       | 178.48482 | 177.43429    | 177.43429    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01609                                | Achieved          |                    | 100                                   |
| 13082.211    | 12917.211       | 178.39731 | 177.31422    | 177.31422    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01619                                | Achieved          |                    | 100                                   |
| 13072.211    | 12907.211       | 178.28238 | 177.23938    | 177.23938    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01638                                | Achieved          |                    | 100                                   |
| 13062.211    | 12897.211       | 178.12016 | 177.17049    | 177.17049    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01668                                | Achieved          |                    | 100                                   |
| 13052.211    | 12887.211       | 177.99715 | 177.08225    | 177.08225    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01708                                | Achieved          |                    | 100                                   |
| 13042.211    | 12877.211       | 177.82804 | 176.99705    | 176.99705    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01759                                | Achieved          |                    | 100                                   |
| 13032.211    | 12867.211       | 177.72632 | 176.93861    | 176.93861    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01819                                | Achieved          |                    | 100                                   |
| 13022.211    | 12857.211       | 177.72095 | 176.87248    | 176.87248    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01928                                | Achieved          |                    | 100                                   |
| 13012.211    | 12847.211       | 177.76188 | 176.76397    | 176.76397    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01643                                | Achieved          |                    | 100                                   |
| 13002.211    | 12837.211       | 177.85079 | 176.62772    | 176.62772    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01718                                | Achieved          |                    | 100                                   |
| 12992.211    | 12827.211       | 177.89628 | 176.49886    | 176.49886    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02383                                | Achieved          |                    | 100                                   |
| 12982.211    | 12817.211       | 177.95002 | 176.35893    | 176.35893    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02367                                | Achieved          |                    | 100                                   |
| 12972.211    | 12807.211       | 177.97303 | 176.20552    | 176.20552    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02273                                | Achieved          |                    | 100                                   |
| 12962.211    | 12797.211       | 177.98673 | 176.03009    | 176.03009    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02197                                | Achieved          |                    | 100                                   |
| 12952.211    | 12787.211       | 177.97261 | 175.87079    | 175.87079    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02139                                | Achieved          |                    | 100                                   |
| 12942.211    | 12777.211       | 177.88513 | 175.72423    | 175.72423    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.021                                  | Achieved          |                    | 100                                   |
| 12932.211    | 12767.211       | 177.79945 | 175.58822    | 175.58822    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02079                                | Achieved          |                    | 100                                   |
| 12922.211    | 12757.211       | 177.76641 | 175.50427    | 175.50427    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02076                                | Achieved          |                    | 100                                   |
| 12912.211    | 12747.211       | 177.57237 | 175.41801    | 175.41801    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02251                                | Achieved          |                    | 100                                   |
| 12902.211    | 12737.211       | 177.30698 | 175.33816    | 175.33816    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02398                                | Achieved          |                    | 100                                   |
| 12892.211    | 12727.211       | 177.42829 | 175.23614    | 175.23614    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02562                                | Achieved          |                    | 100                                   |
| 12882.211    | 12717.211       | 177.33514 | 175.03718    | 175.03718    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06991                                | Achieved          |                    | 100                                   |
| 12872.211    | 12707.211       | 177.26906 | 174.70667    | 174.70667    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.07993                                | Achieved          |                    | 100                                   |
| 12862.211    | 12697.211       | 177.20502 | 174.32242    | 174.32242    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.08808                                | Achieved          |                    | 100                                   |
| 12852.2      |                 |           |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|-------------|---------------------------------------|
| 12412.211    | 12247.211       | 173.49597 | 173.29554    | 173.29554    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01658                                | Achieved          |             | 100                                   |
| 12402.211    | 12237.211       | 173.21532 | 173.25091    | 173.25091    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01668                                | Achieved          |             | 100                                   |
| 12392.211    | 12227.211       | 173.38777 | 173.2114     | 173.2114     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01687                                | Achieved          |             | 100                                   |
| 12382.211    | 12217.211       | 173.54921 | 173.15207    | 173.15207    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01714                                | Achieved          |             | 100                                   |
| 12372.211    | 12207.211       | 173.72974 | 173.07686    | 173.07686    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01714                                | Achieved          |             | 100                                   |
| 12362.211    | 12197.211       | 173.90199 | 172.96436    | 172.96436    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00731                                | Achieved          |             | 100                                   |
| 12352.211    | 12187.211       | 174.00417 | 172.79379    | 172.79379    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00523                                | Achieved          |             | 100                                   |
| 12342.211    | 12177.211       | 173.96897 | 172.56864    | 172.56864    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00324                                | Achieved          |             | 100                                   |
| 12332.211    | 12167.211       | 173.90745 | 172.2947     | 172.2947     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00325                                | Achieved          |             | 100                                   |
| 12322.211    | 12157.211       | 173.81172 | 171.98903    | 171.98903    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00537                                | Achieved          |             | 100                                   |
| 12312.211    | 12147.211       | 173.79433 | 171.67025    | 171.67025    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00053                                | Achieved          |             | 100                                   |
| 12302.211    | 12137.211       | 173.73736 | 171.37789    | 171.37789    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00533                                | Achieved          |             | 100                                   |
| 12292.211    | 12127.211       | 173.70353 | 171.08525    | 171.08525    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00537                                | Achieved          |             | 100                                   |
| 12282.211    | 12117.211       | 173.69717 | 170.78563    | 170.78563    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00543                                | Achieved          |             | 100                                   |
| 12272.211    | 12107.211       | 173.672   | 170.51396    | 170.51396    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00883                                | Achieved          |             | 100                                   |
| 12262.211    | 12097.211       | 173.65225 | 170.26376    | 170.26376    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00279                                | Achieved          |             | 100                                   |
| 12252.211    | 12087.211       | 173.6207  | 170.04478    | 170.04478    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00278                                | Achieved          |             | 100                                   |
| 12242.211    | 12077.211       | 173.56954 | 169.8204     | 169.8204     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00277                                | Achieved          |             | 100                                   |
| 12232.211    | 12067.211       | 173.53446 | 169.62678    | 169.62678    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00276                                | Achieved          |             | 100                                   |
| 12222.211    | 12057.211       | 173.49233 | 169.48378    | 169.48378    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00275                                | Achieved          |             | 100                                   |
| 12212.211    | 12047.211       | 173.41803 | 169.39466    | 169.39466    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00275                                | Achieved          |             | 100                                   |
| 12202.211    | 12037.211       | 173.33133 | 169.29823    | 169.29823    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00275                                | Achieved          |             | 100                                   |
| 12192.211    | 12027.211       | 173.18936 | 169.20613    | 169.20613    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00274                                | Achieved          |             | 100                                   |
| 12182.211    | 12017.211       | 173.99121 | 169.14208    | 169.14208    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00275                                | Achieved          |             | 100                                   |
| 12172.211    | 12007.211       | 173.73814 | 169.07029    | 169.07029    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00275                                | Achieved          |             | 100                                   |
| 12162.211    | 11997.211       | 172.44666 | 169.01208    | 169.01208    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00276                                | Achieved          |             | 100                                   |
| 12152.211    | 11987.211       | 172.12925 | 168.9627     | 168.9627     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |             | 100                                   |
| 12142.211    | 11977.211       | 171.82122 | 168.91141    | 168.91141    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99548                                | Achieved          |             | 100                                   |
| 12132.211    | 11967.211       | 171.53493 | 168.90545    | 168.90545    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9954                                 | Achieved          |             | 100                                   |
| 12122.211    | 11957.211       | 171.23224 | 168.9043     | 168.9043     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99522                                | Achieved          |             | 100                                   |
| 12112.211    | 11947.211       | 170.94462 | 168.92364    | 168.92364    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99481                                | Achieved          |             | 100                                   |
| 12102.211    | 11937.211       | 170.68554 | 169.00481    | 169.00481    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99237                                | Achieved          |             | 100                                   |
| 12092.211    | 11927.211       | 170.45265 | 169.09915    | 169.09915    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99239                                | Achieved          |             | 100                                   |
| 12082.211    | 11917.211       | 170.24307 | 169.09967    | 169.09967    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00026                                | Achieved          |             | 100                                   |
| 12072.211    | 11907.211       | 170.02205 | 169.12545    | 169.12545    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99228                                | Achieved          |             | 100                                   |
| 12062.211    | 11897.211       | 169.84077 | 169.16936    | 169.16936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99227                                | Achieved          |             | 100                                   |
| 12052.211    | 11887.211       | 169.73956 | 169.22834    | 169.22834    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99228                                | Achieved          |             | 100                                   |
| 12042.211    | 11877.211       | 169.65013 | 169.27334    | 169.27334    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99231                                | Achieved          |             | 100                                   |
| 12032.211    | 11867.211       | 169.54912 | 169.25666    | 169.25666    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99233                                | Achieved          |             | 100                                   |
| 12022.211    | 11857.211       | 169.46958 | 169.20188    | 169.20188    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9924                                 | Achieved          |             | 100                                   |
| 12012.211    | 11847.211       | 169.41061 | 169.1354     | 169.1354     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99247                                | Achieved          |             | 100                                   |
| 12002.211    | 11837.211       | 169.33178 | 169.068      | 169.068      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99262                                | Achieved          |             | 100                                   |
| 11992.211    | 11827.211       | 169.29339 | 168.9988     | 168.9988     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99259                                | Achieved          |             | 100                                   |
| 11982.211    | 11817.211       | 169.22987 | 168.93602    | 168.93602    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99298                                | Achieved          |             | 100                                   |
| 11972.211    | 11807.211       | 169.20355 | 168.86818    | 168.86818    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00261                                | Achieved          |             | 100                                   |
| 11962.211    | 11797.211       | 169.18003 | 168.80623    | 168.80623    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00026                                | Achieved          |             | 100                                   |
| 11952.211    | 11787.211       | 169.20119 | 168.7439     | 168.7439     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |             | 100                                   |
| 11942.211    | 11777.211       | 169.26233 | 168.69687    | 168.69687    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |             | 100                                   |
| 11932.211    | 11767.211       | 169.34273 | 168.66995    | 168.66995    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |             | 100                                   |
| 11922.211    | 11757.211       | 169.39083 | 168.64274    | 168.64274    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00258                                | Achieved          |             | 100                                   |
| 11912.211    | 11747.211       | 169.40373 | 168.60575    | 168.60575    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00258                                | Achieved          |             | 100                                   |
| 11902.211    | 11737.211       | 169.44493 | 168.52371    | 168.52371    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |             | 100                                   |
| 11892.211    | 11727.211       | 169.49958 | 168.44926    | 168.44926    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00259                                | Achieved          |             | 100                                   |
| 11882.211    | 11717.211       | 169.53486 | 168.35627    | 168.35627    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0026                                 | Achieved          |             | 100                                   |
| 11872.211    | 11707.211       | 169.57247 | 168.2513     | 168.2513     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0026                                 | Achieved          |             | 100                                   |
| 11862.211    | 11697.211       | 169.53461 | 168.15241    | 168.15241    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00261                                | Achieved          |             | 100                                   |
| 11852.211    | 11687.211       | 169.46583 | 168.07258    | 168.07258    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0026                                 | Achieved          |             | 100                                   |
| 11842.211    | 11677.211       | 169.40047 | 167.99002    | 167.99002    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00261                                | Achieved          |             | 100                                   |
| 11832.211    | 11667.211       | 169.33409 | 167.89239    | 167.89239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11822.211    | 11657.211       | 169.26913 | 167.77626    | 167.77626    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11812.211    | 11647.211       | 169.19995 | 167.64438    | 167.64438    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11802.211    | 11637.211       | 169.13656 | 167.50024    | 167.50024    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11792.211    | 11627.211       | 169.07694 | 167.35189    | 167.35189    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11782.211    | 11617.211       | 169.01731 | 167.21111    | 167.21111    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11772.211    | 11607.211       | 168.98288 | 167.07239    | 167.07239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11762.211    | 11597.211       | 168.9536  | 166.94315    | 166.94315    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11752.211    | 11587.211       | 168.92997 | 166.83556    | 166.83556    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11742.211    | 11577.211       | 168.86666 | 166.73881    | 166.73881    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11732.211    | 11567.211       | 168.78574 | 166.62303    | 166.62303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11722.211    | 11557.211       | 168.70632 | 166.53139    | 166.53139    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11712.211    | 11547.211       | 168.60935 | 166.42239    | 166.42239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11702.211    | 11537.211       | 168.50909 | 166.31948    | 166.31948    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11692.211    | 11527.211       | 168.40924 | 166.20664    | 166.20664    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00018                                | Achieved          |             | 100                                   |
| 11682.211    | 11517.211       | 168.33031 | 166.09136    | 166.09136    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |             | 100                                   |
| 11672.211    | 11507.211       | 168.2442  | 165.97117    | 165.97117    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99922                                | Achieved          |             | 100                                   |
| 11662.211    | 11497.211       | 168.15337 | 165.85437    | 165.85437    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99621                                | Achieved          |             | 100                                   |
| 11652.211    | 11487.211       | 168.01306 | 165.73652    | 165.73652    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99315                                | Achieved          |             | 100                                   |
| 11642.211    | 11477.211       | 167.87556 | 165.62064    | 1            |              |                     |               |                         |                        |                         |  |                   |             |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |     |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|-----|
| 11102.211    | 11037.211       | 169.69551 | 174.74452    | 174.74452    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00693                                | Achieved          |                    | 100                                   |     |
| 11119.211    | 11027.211       | 169.93283 | 175.0643     | 175.0643     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00689                                | Achieved          |                    | 100                                   |     |
| 11182.211    | 11017.211       | 170.27369 | 175.39245    | 175.39245    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00687                                | Achieved          |                    | 100                                   |     |
| 11171.211    | 11007.211       | 170.61371 | 175.70738    | 175.70738    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00686                                | Achieved          |                    | 100                                   |     |
| 11162.211    | 10997.211       | 170.92928 | 176.06325    | 176.06325    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00687                                | Achieved          |                    | 100                                   |     |
| 11152.211    | 10987.211       | 171.2248  | 176.44265    | 176.44265    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00689                                | Achieved          |                    | 100                                   |     |
| 11142.211    | 10977.211       | 171.52005 | 176.83247    | 176.83247    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.01131                                | Achieved          |                    | 100                                   |     |
| 11132.211    | 10967.211       | 171.81433 | 177.22673    | 177.22673    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.02799                                | Achieved          |                    | 100                                   |     |
| 11122.211    | 10957.211       | 172.10824 | 177.60879    | 177.60879    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.0397                                 | Achieved          |                    | 100                                   |     |
| 11112.211    | 10947.211       | 172.49931 | 178.00028    | 178.00028    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.0499                                 | Achieved          |                    | 100                                   |     |
| 11102.211    | 10937.211       | 172.8779  | 178.38377    | 178.38377    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.05209                                | Achieved          |                    | 100                                   |     |
| 11092.211    | 10927.211       | 173.26303 | 178.7272     | 178.7272     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.11362                                | Achieved          |                    | 100                                   |     |
| 11082.211    | 10917.211       | 173.61138 | 179.02307    | 179.02307    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.11494                                | Achieved          |                    | 100                                   |     |
| 11072.211    | 10907.211       | 173.9458  | 179.29375    | 179.29375    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.05688                                | Achieved          |                    | 100                                   |     |
| 11062.211    | 10897.211       | 174.25186 | 179.53254    | 179.53254    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.02114                                | Achieved          |                    | 100                                   |     |
| 11052.211    | 10887.211       | 174.55302 | 179.74471    | 179.74471    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.1623                                 | Achieved          |                    | 100                                   |     |
| 11042.211    | 10877.211       | 174.87899 | 179.91511    | 179.91511    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.76708                                | Achieved          |                    | 100                                   |     |
| 11032.211    | 10867.211       | 175.20386 | 180.03146    | 180.03146    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.59489                                | Achieved          |                    | 100                                   |     |
| 11022.211    | 10857.211       | 175.52848 | 180.06306    | 180.06306    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.43891                                | Achieved          |                    | 100                                   |     |
| 11012.211    | 10847.211       | 175.84609 | 180.04649    | 180.04649    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.3061                                 | Achieved          |                    | 100                                   |     |
| 11002.211    | 10837.211       | 176.15752 | 180.03798    | 180.03798    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.93348                                | Achieved          | Vertical alignment |                                       | 100 |
| 10992.211    | 10826.211       | 176.52243 | 180.00742    | 180.00742    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.30114                                | Released          | Vertical alignment |                                       | 100 |
| 10982.211    | 10828.211       | 176.93384 | 179.93236    | 179.93236    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.30639                                | Released          | Vertical alignment |                                       | 100 |
| 10972.211    | 10818.211       | 177.33023 | 179.82569    | 179.82569    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.30987                                | Released          | Vertical alignment |                                       | 100 |
| 10962.211    | 10806.211       | 177.71781 | 179.63743    | 179.63743    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.34779                                | Released          | Vertical alignment |                                       | 100 |
| 10952.211    | 10798.211       | 178.10294 | 179.48879    | 179.48879    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.43816                                | Released          | Vertical alignment |                                       | 100 |
| 10942.211    | 10790.211       | 178.49409 | 179.3248     | 179.3248     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.60842                                | Released          | Vertical alignment |                                       | 100 |
| 10932.211    | 10778.211       | 178.86133 | 179.11787    | 179.11787    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.8263                                 | Released          | Vertical alignment |                                       | 100 |
| 10922.211    | 10764.211       | 179.17693 | 178.8733     | 178.8733     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.62463                                | Released          | Vertical alignment |                                       | 100 |
| 10912.211    | 10747.211       | 179.46195 | 178.49895    | 178.49895    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.45253                                | Achieved          |                    | 100                                   |     |
| 10902.211    | 10737.211       | 179.71679 | 178.32178    | 178.32178    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.42097                                | Achieved          |                    | 100                                   |     |
| 10892.211    | 10727.211       | 179.94503 | 178.12975    | 178.12975    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.40761                                | Achieved          |                    | 100                                   |     |
| 10882.211    | 10717.211       | 180.13385 | 177.89131    | 177.89131    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.38485                                | Achieved          |                    | 100                                   |     |
| 10872.211    | 10707.211       | 180.2823  | 177.62548    | 177.62548    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.35438                                | Achieved          |                    | 100                                   |     |
| 10862.211    | 10697.211       | 180.39569 | 177.32676    | 177.32676    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.46743                                | Achieved          |                    | 100                                   |     |
| 10852.211    | 10687.211       | 180.53332 | 176.92984    | 176.92984    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.34188                                | Achieved          |                    | 100                                   |     |
| 10842.211    | 10677.211       | 180.63798 | 176.46967    | 176.46967    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.60547                                | Achieved          |                    | 100                                   |     |
| 10832.211    | 10667.211       | 180.72497 | 176.00295    | 176.00295    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.69139                                | Achieved          |                    | 100                                   |     |
| 10822.211    | 10657.211       | 180.76703 | 175.54977    | 175.54977    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.73736                                | Achieved          |                    | 100                                   |     |
| 10812.211    | 10647.211       | 180.04436 | 175.07919    | 175.07919    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.8034                                 | Achieved          |                    | 100                                   |     |
| 10802.211    | 10637.211       | 179.86392 | 174.61359    | 174.61359    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.80737                                | Achieved          |                    | 100                                   |     |
| 10792.211    | 10627.211       | 179.66734 | 174.16802    | 174.16802    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.77281                                | Achieved          |                    | 100                                   |     |
| 10782.211    | 10617.211       | 179.47339 | 173.74439    | 173.74439    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.71607                                | Achieved          |                    | 100                                   |     |
| 10772.211    | 10607.211       | 179.31785 | 173.39385    | 173.39385    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.64982                                | Achieved          |                    | 100                                   |     |
| 10762.211    | 10597.211       | 179.13779 | 173.13013    | 173.13013    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.58882                                | Achieved          |                    | 100                                   |     |
| 10752.211    | 10587.211       | 178.90243 | 172.83323    | 172.83323    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.52438                                | Achieved          |                    | 100                                   |     |
| 10742.211    | 10577.211       | 178.71336 | 172.78789    | 172.78789    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.38491                                | Achieved          |                    | 100                                   |     |
| 10732.211    | 10567.211       | 178.53387 | 172.71492    | 172.71492    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.63441                                | Achieved          |                    | 100                                   |     |
| 10722.211    | 10557.211       | 178.30909 | 172.72923    | 172.72923    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.69753                                | Achieved          |                    | 100                                   |     |
| 10712.211    | 10547.211       | 178.07686 | 172.83903    | 172.83903    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.79393                                | Achieved          |                    | 100                                   |     |
| 10702.211    | 10537.211       | 177.79241 | 173.05946    | 173.05946    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.86991                                | Achieved          |                    | 100                                   |     |
| 10692.211    | 10527.211       | 177.44034 | 173.36733    | 173.36733    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93008                                | Achieved          |                    | 100                                   |     |
| 10682.211    | 10517.211       | 176.99953 | 173.76316    | 173.76316    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.97932                                | Achieved          |                    | 100                                   |     |
| 10672.211    | 10507.211       | 176.53272 | 174.26369    | 174.26369    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00269                                | Achieved          |                    | 100                                   |     |
| 10662.211    | 10497.211       | 176.07866 | 174.77136    | 174.77136    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00363                                | Achieved          |                    | 100                                   |     |
| 10652.211    | 10487.211       | 175.61509 | 175.17964    | 175.17964    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00361                                | Achieved          |                    | 100                                   |     |
| 10642.211    | 10477.211       | 175.14161 | 175.49539    | 175.49539    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00359                                | Achieved          |                    | 100                                   |     |
| 10632.211    | 10467.211       | 174.69133 | 175.84826    | 175.84826    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00766                                | Achieved          |                    | 100                                   |     |
| 10622.211    | 10457.211       | 174.24778 | 176.29271    | 176.29271    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0159                                 | Not Achieved      | Vertical alignment |                                       | 100 |
| 10612.211    | 10447.211       | 173.82431 | 176.8273     | 176.8273     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02347                                | Achieved          |                    | 100                                   |     |
| 10602.211    | 10437.211       | 173.5465  | 177.38277    | 177.38277    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.03032                                | Released          | Vertical alignment |                                       | 100 |
| 10592.211    | 10436.211       | 173.32671 | 178.26246    | 178.26246    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.03123                                | Released          | Vertical alignment |                                       | 100 |
| 10582.211    | 10440.211       | 173.14908 | 178.34216    | 178.34216    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 142.02859                                | Released          | Vertical alignment |                                       | 100 |
| 10572.211    | 10442.211       | 173.03989 | 178.3791     | 178.3791     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 130.02733                                | Not Achieved      | Vertical alignment |                                       | 90  |
| 10562.211    | 10444.211       | 173.01186 | 178.41611    | 178.41611    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 118.02384                                | Not Achieved      | Vertical alignment |                                       | 80  |
| 10552.211    | 10446.211       | 173.0729  | 178.44731    | 178.44731    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 106.02442                                | Not Achieved      | Vertical alignment |                                       | 80  |
| 10542.211    | 10446.211       | 173.23643 | 178.44731    | 178.44731    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 96.02449                                 | Not Achieved      | Vertical alignment |                                       | 70  |
| 10532.211    | 10446.211       | 173.50439 | 178.44731    | 178.44731    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 86.02436                                 | Not Achieved      | Vertical alignment |                                       | 70  |
| 10522.211    | 10444.211       | 173.83289 | 178.41611    | 178.41611    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 78.02496                                 | Not Achieved      | Vertical alignment |                                       | 60  |
| 10512.211    | 10438.211       | 174.30205 | 179.39311    | 179.39311    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 74.02853                                 | Not Achieved      | Vertical alignment |                                       | 60  |
| 10502.211    | 10432.211       | 174.82511 | 179.91309    | 179.91309    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 80.03373                                 | Not Achieved      | Vertical alignment |                                       | 60  |
| 10492.211    | 10380.211       | 175.28774 | 179.80469    | 179.80469    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 111.043                                  | Not Achieved      | Vertical alignment |                                       | 80  |
| 10482.211    | 10317.211       | 175.85179 | 172.0427     | 172.0427     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.07373                                | Achieved          |                    | 100                                   |     |
| 10472.211    | 10307.211       | 175.89899 | 171.6712     | 171.6712     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.08236                                | Achieved          |                    | 100                                   |     |
| 10462.211    | 10297.211       | 175.94134 | 171.31628    | 171.31628    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.08086                                | Achieved          |                    | 100                                   |     |
| 10452.211    | 10287.211       | 175.92993 | 170.87044    | 170.87044    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.08766                                | Achieved          |                    | 100                                   |     |
| 10442.211    | 10277.211       | 175.8791  | 170.3531     | 170.3531     | 10           |                     |               |                         |                        |                         |  |                   |                    |                                       |     |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 9982.211     | 9817.211        | 161.83521 | 161.70087    | 161.70087    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94699                                | Achieved          |                    | 100                                   |
| 9972.211     | 9807.211        | 161.83712 | 161.68837    | 161.68837    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.90309                                | Achieved          |                    | 100                                   |
| 9962.211     | 9797.211        | 161.84211 | 161.67432    | 161.67432    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.84882                                | Achieved          |                    | 100                                   |
| 9952.211     | 9787.211        | 161.83852 | 161.69569    | 161.69569    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.7818                                 | Achieved          |                    | 100                                   |
| 9942.211     | 9777.211        | 161.86203 | 161.74282    | 161.74282    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.69727                                | Achieved          |                    | 100                                   |
| 9932.211     | 9767.211        | 161.88383 | 161.83356    | 161.83356    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.59097                                | Achieved          |                    | 100                                   |
| 9922.211     | 9757.211        | 161.90893 | 161.92407    | 161.92407    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.48616                                | Achieved          |                    | 100                                   |
| 9912.211     | 9747.211        | 161.92355 | 161.99845    | 161.99845    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.38186                                | Achieved          |                    | 100                                   |
| 9902.211     | 9737.211        | 161.95115 | 162.08465    | 162.08465    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.2911                                 | Achieved          |                    | 100                                   |
| 8892.211     | 9727.211        | 161.97124 | 162.20438    | 162.20438    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.21761                                | Achieved          |                    | 100                                   |
| 8882.211     | 9717.211        | 161.95403 | 162.36449    | 162.36449    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.19409                                | Achieved          |                    | 100                                   |
| 8872.211     | 9707.211        | 161.88977 | 162.53543    | 162.53543    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.13331                                | Achieved          |                    | 100                                   |
| 8862.211     | 9697.211        | 162.01967 | 162.73283    | 162.73283    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.19168                                | Achieved          |                    | 100                                   |
| 8852.211     | 9687.211        | 162.01299 | 162.90003    | 162.90003    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.22178                                | Achieved          |                    | 100                                   |
| 8842.211     | 9677.211        | 161.98981 | 163.04701    | 163.04701    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.27614                                | Achieved          |                    | 100                                   |
| 8832.211     | 9667.211        | 162.00238 | 163.14221    | 163.14221    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.33996                                | Achieved          |                    | 100                                   |
| 8822.211     | 9657.211        | 162.00398 | 163.28933    | 163.28933    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.46842                                | Achieved          |                    | 100                                   |
| 8812.211     | 9647.211        | 161.99347 | 163.41081    | 163.41081    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.57802                                | Achieved          |                    | 100                                   |
| 8802.211     | 9637.211        | 161.98198 | 163.53602    | 163.53602    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.67473                                | Achieved          |                    | 100                                   |
| 8792.211     | 9627.211        | 161.98213 | 163.65247    | 163.65247    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.75774                                | Achieved          |                    | 100                                   |
| 8782.211     | 9617.211        | 162.01694 | 163.83027    | 163.83027    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.90993                                | Achieved          |                    | 100                                   |
| 8772.211     | 9607.211        | 162.08546 | 164.01293    | 164.01293    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98961                                | Achieved          |                    | 100                                   |
| 8762.211     | 9597.211        | 162.17315 | 164.17595    | 164.17595    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93569                                | Achieved          |                    | 100                                   |
| 8752.211     | 9587.211        | 162.26833 | 164.33735    | 164.33735    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.97002                                | Achieved          |                    | 100                                   |
| 8742.211     | 9577.211        | 162.34304 | 164.53232    | 164.53232    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99223                                | Achieved          |                    | 100                                   |
| 8732.211     | 9567.211        | 162.44084 | 164.77069    | 164.77069    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00333                                | Achieved          |                    | 100                                   |
| 8722.211     | 9557.211        | 162.5818  | 165.08178    | 165.08178    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00529                                | Achieved          |                    | 100                                   |
| 8712.211     | 9547.211        | 162.74601 | 165.43685    | 165.43685    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00527                                | Achieved          |                    | 100                                   |
| 8702.211     | 9537.211        | 162.94076 | 165.84265    | 165.84265    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00021                                | Achieved          |                    | 100                                   |
| 8692.211     | 9527.211        | 163.11493 | 166.3117     | 166.3117     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99915                                | Achieved          |                    | 100                                   |
| 8682.211     | 9517.211        | 163.28153 | 166.81394    | 166.81394    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99914                                | Achieved          |                    | 100                                   |
| 8672.211     | 9507.211        | 163.38749 | 167.3441     | 167.3441     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99913                                | Achieved          |                    | 100                                   |
| 8662.211     | 9497.211        | 163.52206 | 167.89739    | 167.89739    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99913                                | Achieved          |                    | 100                                   |
| 8652.211     | 9487.211        | 163.64694 | 168.41432    | 168.41432    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99913                                | Achieved          |                    | 100                                   |
| 8642.211     | 9477.211        | 163.77314 | 168.87577    | 168.87577    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99913                                | Achieved          |                    | 100                                   |
| 8632.211     | 9467.211        | 163.8898  | 169.29405    | 169.29405    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99913                                | Achieved          |                    | 100                                   |
| 8622.211     | 9457.211        | 164.03154 | 169.71026    | 169.71026    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9991                                 | Achieved          |                    | 100                                   |
| 8612.211     | 9447.211        | 164.2199  | 170.07064    | 170.07064    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99353                                | Achieved          |                    | 100                                   |
| 8602.211     | 9437.211        | 164.40066 | 170.35462    | 170.35462    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00024                                | Achieved          |                    | 100                                   |
| 8592.211     | 9427.211        | 164.5907  | 170.53872    | 170.53872    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0014                                 | Achieved          |                    | 100                                   |
| 8582.211     | 9417.211        | 164.78441 | 170.69165    | 170.69165    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00137                                | Achieved          |                    | 100                                   |
| 8572.211     | 9407.211        | 164.94271 | 170.83223    | 170.83223    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00133                                | Achieved          |                    | 100                                   |
| 9362.211     | 9400.211        | 165.21949 | 170.95083    | 170.95083    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 162.00132                                | Released          | Vertical alignment | 100                                   |
| 9352.211     | 9400.211        | 165.35322 | 170.95083    | 170.95083    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 152.00134                                | Released          | Vertical alignment | 100                                   |
| 9342.211     | 9400.211        | 165.52296 | 170.95083    | 170.95083    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 142.00269                                | Released          | Vertical alignment | 100                                   |
| 9332.211     | 9398.211        | 166.37235 | 170.98329    | 170.98329    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134.00749                                | Not Achieved      | Vertical alignment | 90                                    |
| 9322.211     | 9391.211        | 166.86058 | 171.07716    | 171.07716    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 126                     | 126.00747                                | Not Achieved      | Vertical alignment | 90                                    |
| 9312.211     | 9382.211        | 167.37448 | 171.21768    | 171.21768    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 130.00745                                | Not Achieved      | Vertical alignment | 90                                    |
| 9302.211     | 9377.211        | 167.92389 | 172.23903    | 172.23903    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00639                                | Achieved          |                    | 100                                   |
| 9292.211     | 9372.211        | 168.43985 | 172.99036    | 172.99036    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00643                                | Achieved          |                    | 100                                   |
| 9282.211     | 9367.211        | 168.95211 | 172.97205    | 172.97205    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00653                                | Achieved          |                    | 100                                   |
| 9272.211     | 9362.211        | 169.38627 | 173.38567    | 173.38567    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00667                                | Achieved          |                    | 100                                   |
| 9262.211     | 9357.211        | 169.80574 | 173.81653    | 173.81653    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00666                                | Achieved          |                    | 100                                   |
| 9252.211     | 9352.211        | 170.19791 | 174.22637    | 174.22637    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00677                                | Achieved          |                    | 100                                   |
| 9242.211     | 9347.211        | 170.52469 | 174.58202    | 174.58202    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00394                                | Achieved          |                    | 100                                   |
| 9232.211     | 9342.211        | 170.73737 | 174.91953    | 174.91953    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99901                                | Achieved          |                    | 100                                   |
| 9222.211     | 9337.211        | 170.91788 | 175.24781    | 175.24781    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99901                                | Achieved          |                    | 100                                   |
| 9212.211     | 9332.211        | 171.06049 | 175.44465    | 175.44465    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99901                                | Achieved          |                    | 100                                   |
| 9202.211     | 9327.211        | 171.21679 | 175.53182    | 175.53182    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99901                                | Achieved          |                    | 100                                   |
| 9192.211     | 9322.211        | 171.37716 | 175.57329    | 175.57329    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99901                                | Achieved          |                    | 100                                   |
| 9182.211     | 9317.211        | 171.51768 | 175.61376    | 175.61376    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99901                                | Achieved          |                    | 100                                   |
| 9172.211     | 9312.211        | 171.67626 | 175.6531     | 175.6531     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 163.99901                                | Released          | Vertical alignment | 100                                   |
| 9162.211     | 9307.211        | 171.86457 | 175.64618    | 175.64618    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 151.99901                                | Released          | Vertical alignment | 100                                   |
| 9152.211     | 9302.211        | 172.10223 | 175.64618    | 175.64618    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 141.99902                                | Released          | Vertical alignment | 100                                   |
| 9142.211     | 9297.211        | 172.38723 | 175.65631    | 175.65631    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 133.99904                                | Not Achieved      | Vertical alignment | 90                                    |
| 9132.211     | 9292.211        | 172.71117 | 175.66694    | 175.66694    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 126                     | 126                                      | Not Achieved      | Vertical alignment | 90                                    |
| 9122.211     | 9287.211        | 173.07203 | 175.68818    | 175.68818    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 122                                      | Not Achieved      | Vertical alignment | 90                                    |
| 9112.211     | 9282.211        | 173.48046 | 175.69474    | 175.69474    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 122                                      | Not Achieved      | Vertical alignment | 90                                    |
| 9102.211     | 9277.211        | 173.89627 | 175.69237    | 175.69237    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 130                     | 130.00196                                | Not Achieved      | Vertical alignment | 100                                   |
| 9092.211     | 9272.211        | 174.32925 | 175.63982    | 175.63982    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00074                                | Achieved          |                    | 100                                   |
| 9082.211     | 9267.211        | 174.70536 | 175.62309    | 175.62309    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99969                                | Achieved          |                    | 100                                   |
| 9072.211     | 9262.211        | 175.05174 | 175.61253    | 175.61253    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9062.211     | 9257.211        | 175.3889  | 175.64338    | 175.64338    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9052.211     | 9252.211        | 175.66509 | 175.67149    | 175.67149    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9042.211     | 9247.211        | 175.79792 | 175.69073    | 175.69073    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9032.211     | 9242.211        | 175.83363 | 175.6686     | 175.6686     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9022.211     | 9237.211        | 175.89378 | 175.61436    | 175.61436    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9012.211     | 9232.211        | 175.93741 | 175.46749    | 175.46749    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99951                                | Achieved          |                    | 100                                   |
| 9002.211     | 92              |           |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 8772.211     | 8686.211        | 169.43912 | 167.65282    | 167.65282    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 86.02972                                 | Not Achieved      | Vertical alignment | 70                                    |
| 8762.211     | 8597.211        | 169.63874 | 166.01021    | 166.01021    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.01824                                | Achieved          |                    | 100                                   |
| 8752.211     | 8587.211        | 169.72172 | 166.13513    | 166.13513    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.01339                                | Achieved          |                    | 100                                   |
| 8742.211     | 8577.211        | 169.73235 | 166.29432    | 166.29432    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00866                                | Achieved          |                    | 100                                   |
| 8732.211     | 8567.211        | 169.67252 | 166.49025    | 166.49025    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00353                                | Achieved          |                    | 100                                   |
| 8722.211     | 8557.211        | 169.44508 | 166.67343    | 166.67343    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99829                                | Achieved          |                    | 100                                   |
| 8712.211     | 8547.211        | 169.1281  | 166.9107     | 166.9107     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99306                                | Achieved          |                    | 100                                   |
| 8702.211     | 8537.211        | 168.74492 | 167.16309    | 167.16309    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99281                                | Achieved          |                    | 100                                   |
| 8692.211     | 8527.211        | 168.2299  | 167.40341    | 167.40341    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99291                                | Achieved          |                    | 100                                   |
| 8682.211     | 8517.211        | 167.75218 | 167.64667    | 167.64667    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99203                                | Achieved          |                    | 100                                   |
| 8672.211     | 8507.211        | 167.28338 | 168.02314    | 168.02314    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99706                                | Achieved          |                    | 100                                   |
| 8662.211     | 8497.211        | 166.81266 | 168.48647    | 168.48647    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00201                                | Achieved          |                    | 100                                   |
| 8652.211     | 8487.211        | 166.64339 | 169.02907    | 169.02907    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00201                                | Achieved          |                    | 100                                   |
| 8642.211     | 8477.211        | 166.43229 | 169.66712    | 169.66712    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00201                                | Achieved          |                    | 100                                   |
| 8632.211     | 8467.211        | 166.29175 | 170.38013    | 170.38013    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00201                                | Achieved          |                    | 100                                   |
| 8622.211     | 8457.211        | 166.18355 | 171.09909    | 171.09909    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99974                                | Achieved          |                    | 100                                   |
| 8612.211     | 8447.211        | 166.13904 | 171.71701    | 171.71701    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99862                                | Achieved          |                    | 100                                   |
| 8602.211     | 8437.211        | 166.24052 | 172.19799    | 172.19799    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99864                                | Achieved          |                    | 100                                   |
| 8592.211     | 8427.211        | 166.37066 | 172.52809    | 172.52809    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98843                                | Achieved          |                    | 100                                   |
| 8582.211     | 8417.211        | 166.5072  | 172.78261    | 172.78261    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98839                                | Achieved          |                    | 100                                   |
| 8572.211     | 8407.211        | 166.65983 | 173.01383    | 173.01383    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98839                                | Achieved          |                    | 100                                   |
| 8562.211     | 8397.211        | 166.88091 | 173.24562    | 173.24562    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98796                                | Achieved          |                    | 100                                   |
| 8552.211     | 8387.211        | 167.0797  | 173.44934    | 173.44934    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98582                                | Achieved          |                    | 100                                   |
| 8542.211     | 8382.211        | 167.34161 | 173.54431    | 173.54431    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 160                     | 159.98579                                | Released          | Vertical alignment | 100                                   |
| 8532.211     | 8386.211        | 167.58457 | 173.68227    | 173.68227    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 145.9839                                 | Released          | Vertical alignment | 100                                   |
| 8522.211     | 8390.211        | 167.84032 | 173.88933    | 173.88933    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 131.98602                                | Not Achieved      | Vertical alignment | 90                                    |
| 8512.211     | 8394.211        | 168.14476 | 173.31225    | 173.31225    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 118                     | 117.98613                                | Not Achieved      | Vertical alignment | 80                                    |
| 8502.211     | 8394.211        | 168.53301 | 173.31225    | 173.31225    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 107.9862                                 | Not Achieved      | Vertical alignment | 80                                    |
| 8492.211     | 8392.211        | 169.03199 | 173.35145    | 173.35145    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 99.98627                                 | Not Achieved      | Vertical alignment | 80                                    |
| 8482.211     | 8384.211        | 169.63553 | 173.50608    | 173.50608    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 98                      | 97.98633                                 | Not Achieved      | Vertical alignment | 70                                    |
| 8472.211     | 8356.211        | 170.31902 | 173.98623    | 173.98623    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 115.97334                                | Not Achieved      | Vertical alignment | 80                                    |
| 8462.211     | 8306.211        | 171.04314 | 174.38995    | 174.38995    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 156                     | 155.97232                                | Released          | Vertical alignment | 100                                   |
| 8452.211     | 8287.211        | 171.72995 | 174.43606    | 174.43606    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.97274                                | Achieved          |                    | 100                                   |
| 8442.211     | 8277.211        | 172.27872 | 174.4622     | 174.4622     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.97907                                | Achieved          |                    | 100                                   |
| 8432.211     | 8267.211        | 172.6776  | 174.49906    | 174.49906    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98232                                | Achieved          |                    | 100                                   |
| 8422.211     | 8257.211        | 172.96125 | 174.53616    | 174.53616    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9853                                 | Achieved          |                    | 100                                   |
| 8412.211     | 8247.211        | 173.19838 | 174.6005     | 174.6005     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98934                                | Achieved          |                    | 100                                   |
| 8402.211     | 8237.211        | 173.43102 | 174.64965    | 174.64965    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98614                                | Achieved          |                    | 100                                   |
| 8392.211     | 8227.211        | 173.65145 | 174.69614    | 174.69614    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98638                                | Achieved          |                    | 100                                   |
| 8382.211     | 8217.211        | 173.84451 | 174.74887    | 174.74887    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98667                                | Achieved          |                    | 100                                   |
| 8372.211     | 8207.211        | 174.03389 | 174.78867    | 174.78867    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99148                                | Achieved          |                    | 100                                   |
| 8362.211     | 8197.211        | 174.20992 | 174.83979    | 174.83979    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99949                                | Achieved          |                    | 100                                   |
| 8352.211     | 8187.211        | 174.32797 | 174.86203    | 174.86203    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00292                                | Achieved          |                    | 100                                   |
| 8342.211     | 8177.211        | 174.41541 | 174.89034    | 174.89034    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0029                                 | Achieved          |                    | 100                                   |
| 8332.211     | 8167.211        | 174.48243 | 174.94374    | 174.94374    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00289                                | Achieved          |                    | 100                                   |
| 8322.211     | 8157.211        | 174.5392  | 174.99516    | 174.99516    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00283                                | Achieved          |                    | 100                                   |
| 8312.211     | 8147.211        | 174.63225 | 175.0304     | 175.0304     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00287                                | Achieved          |                    | 100                                   |
| 8302.211     | 8137.211        | 174.7142  | 175.08861    | 175.08861    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00287                                | Achieved          |                    | 100                                   |
| 8292.211     | 8127.211        | 174.79078 | 175.17002    | 175.17002    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00286                                | Achieved          |                    | 100                                   |
| 8282.211     | 8117.211        | 174.74659 | 175.23698    | 175.23698    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00286                                | Achieved          |                    | 100                                   |
| 8272.211     | 8107.211        | 174.78216 | 175.24027    | 175.24027    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00286                                | Achieved          |                    | 100                                   |
| 8262.211     | 8097.211        | 174.81358 | 175.23909    | 175.23909    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.004                                  | Achieved          |                    | 100                                   |
| 8252.211     | 8087.211        | 174.87005 | 175.23356    | 175.23356    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00774                                | Achieved          |                    | 100                                   |
| 8242.211     | 8077.211        | 174.9275  | 175.19391    | 175.19391    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01066                                | Achieved          |                    | 100                                   |
| 8232.211     | 8067.211        | 174.97062 | 175.19125    | 175.19125    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01053                                | Achieved          |                    | 100                                   |
| 8222.211     | 8057.211        | 175.02441 | 175.15706    | 175.15706    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01047                                | Achieved          |                    | 100                                   |
| 8212.211     | 8047.211        | 175.06676 | 175.08103    | 175.08103    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01042                                | Achieved          |                    | 100                                   |
| 8202.211     | 8037.211        | 175.11637 | 174.99525    | 174.99525    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00918                                | Achieved          |                    | 100                                   |
| 8192.211     | 8027.211        | 175.15152 | 174.89774    | 174.89774    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00743                                | Achieved          |                    | 100                                   |
| 8182.211     | 8017.211        | 175.17842 | 174.79992    | 174.79992    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0074                                 | Achieved          |                    | 100                                   |
| 8172.211     | 8012.211        | 175.21482 | 174.04604    | 174.04604    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 160                     | 160.00741                                | Released          | Vertical alignment | 100                                   |
| 8162.211     | 8012.211        | 175.27177 | 174.04604    | 174.04604    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 150                     | 150.00743                                | Released          | Vertical alignment | 100                                   |
| 8152.211     | 8010.211        | 175.31403 | 173.94631    | 173.94631    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 142.00748                                | Released          | Vertical alignment | 100                                   |
| 8142.211     | 8010.211        | 175.35224 | 173.94631    | 173.94631    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 132.00733                                | Not Achieved      | Vertical alignment | 90                                    |
| 8132.211     | 8008.211        | 175.43127 | 173.81965    | 173.81965    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 124.00738                                | Not Achieved      | Vertical alignment | 90                                    |
| 8122.211     | 8006.211        | 175.5091  | 173.68764    | 173.68764    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 116.00764                                | Not Achieved      | Vertical alignment | 80                                    |
| 8112.211     | 8004.211        | 175.54243 | 173.55127    | 173.55127    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 108                     | 108.00772                                | Not Achieved      | Vertical alignment | 80                                    |
| 8102.211     | 8002.211        | 175.57999 | 173.4113     | 173.4113     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 100                     | 100.00782                                | Not Achieved      | Vertical alignment | 80                                    |
| 8092.211     | 8000.211        | 175.53991 | 173.27023    | 173.27023    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 92                      | 92.00488                                 | Not Achieved      | Vertical alignment | 70                                    |
| 8082.211     | 7998.211        | 175.50727 | 173.11029    | 173.11029    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 84.00114                                 | Not Achieved      | Vertical alignment | 70                                    |
| 8072.211     | 7994.211        | 175.48966 | 172.9821     | 172.9821     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 78                                       | Not Achieved      | Vertical alignment | 60                                    |
| 8062.211     | 7988.211        | 175.48094 | 172.2832     | 172.2832     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 74                      | 74                                       | Not Achieved      | Vertical alignment | 60                                    |
| 8052.211     | 7980.211        | 175.42961 | 171.57439    | 171.57439    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 72                      | 72                                       | Not Achieved      | Vertical alignment | 60                                    |
| 8042.211     | 7977.211        | 175.31255 | 165.0443     | 165.0443     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00938                                | Achieved          |                    | 100                                   |
| 8032.211     | 7967.211        | 175.18997 | 164.79108    | 164.79108    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00929                                | Achieved          |                    | 100                                   |
| 8022.211     | 7957.211        | 174.81331 | 164.55051    | 164.55051    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00857                                | Achieved          |                    | 100                                   |
| 8012.211     | 7947.211        | 174.34604 | 164.45028    | 164.45028    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00781                                | Achieved          |                    | 100                                   |
| 8002.211     | 7937.211        | 173.7113  | 164.39586    | 164.39586    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00708                                | Achieved          |                    | 100                                   |
| 7992.211     | 7927.2          |           |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level  | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|------------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 7362.211     | 7397.211        | 163.02076  | 165.86118    | 165.86118    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98453                                | Achieved          |                    | 100                                   |
| 7352.211     | 7387.211        | 163.08997  | 166.12023    | 166.12023    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97976                                | Achieved          |                    | 100                                   |
| 7342.211     | 7377.211        | 163.15459  | 166.37982    | 166.37982    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97494                                | Achieved          |                    | 100                                   |
| 7332.211     | 7367.211        | 163.22469  | 166.63744    | 166.63744    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.97017                                | Achieved          |                    | 100                                   |
| 7322.211     | 7357.211        | 163.32179  | 166.89526    | 166.89526    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96535                                | Achieved          |                    | 100                                   |
| 7312.211     | 7347.211        | 163.43477  | 167.18571    | 167.18571    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96056                                | Achieved          |                    | 100                                   |
| 7302.211     | 7337.211        | 163.57639  | 167.48596    | 167.48596    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.95577                                | Achieved          |                    | 100                                   |
| 7492.211     | 7327.211        | 163.72764  | 167.79656    | 167.79656    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.95097                                | Achieved          |                    | 100                                   |
| 7482.211     | 7317.211        | 163.89159  | 168.11863    | 168.11863    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.94618                                | Achieved          |                    | 100                                   |
| 7472.211     | 7307.211        | 164.07703  | 168.48381    | 168.48381    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.94139                                | Achieved          |                    | 100                                   |
| 7462.211     | 7297.211        | 164.28077  | 168.82663    | 168.82663    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.93660                                | Achieved          |                    | 100                                   |
| 7452.211     | 7287.211        | 164.50208  | 169.14023    | 169.14023    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.93181                                | Achieved          |                    | 100                                   |
| 7442.211     | 7277.211        | 164.74771  | 169.44033    | 169.44033    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92702                                | Achieved          |                    | 100                                   |
| 7432.211     | 7267.211        | 165.01258  | 169.69592    | 169.69592    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.92223                                | Achieved          |                    | 100                                   |
| 7422.211     | 7257.211        | 165.29669  | 169.90916    | 169.90916    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91744                                | Achieved          |                    | 100                                   |
| 7412.211     | 7247.211        | 165.59863  | 170.13261    | 170.13261    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.91265                                | Achieved          |                    | 100                                   |
| 7402.211     | 7237.211        | 166.01823  | 170.40411    | 170.40411    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00019                                | Achieved          |                    | 100                                   |
| 7392.211     | 7227.211        | 166.29327  | 170.74661    | 170.74661    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00767                                | Achieved          |                    | 100                                   |
| 7382.211     | 7217.211        | 166.54493  | 171.14538    | 171.14538    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00839                                | Achieved          |                    | 100                                   |
| 7372.211     | 7207.211        | 166.81591  | 171.63835    | 171.63835    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00843                                | Achieved          |                    | 100                                   |
| 7362.211     | 7197.211        | 167.07644  | 172.23561    | 172.23561    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00809                                | Achieved          |                    | 100                                   |
| 7352.211     | 7187.211        | 167.33612  | 172.96088    | 172.96088    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00739                                | Achieved          |                    | 100                                   |
| 7342.211     | 7177.211        | 167.59228  | 173.76921    | 173.76921    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00639                                | Achieved          |                    | 100                                   |
| 7332.211     | 7167.211        | 167.83914  | 174.64535    | 174.64535    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00506                                | Achieved          |                    | 100                                   |
| 7322.211     | 7157.211        | 168.07233  | 175.59548    | 175.59548    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00361                                | Achieved          |                    | 100                                   |
| 7312.211     | 7147.211        | 168.29807  | 176.62064    | 176.62064    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 162.00363                                | Released          | Vertical alignment | 100                                   |
| 7302.211     | 7137.211        | 168.51791  | 177.72094    | 177.72094    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 152.00365                                | Released          | Vertical alignment | 100                                   |
| 7292.211     | 7127.211        | 168.73668  | 178.89664    | 178.89664    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 142.00367                                | Released          | Vertical alignment | 100                                   |
| 7282.211     | 7117.211        | 168.95521  | 180.14094    | 180.14094    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 132                     | 132.0037                                 | Not Achieved      | Vertical alignment | 90                                    |
| 7272.211     | 7107.211        | 169.17399  | 181.45494    | 181.45494    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 122                                      | Not Achieved      | Vertical alignment | 80                                    |
| 7262.211     | 7097.211        | 170.11581  | 182.83964    | 182.83964    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 112                     | 112                                      | Not Achieved      | Vertical alignment | 80                                    |
| 7252.211     | 7087.211        | 170.31765  | 184.29494    | 184.29494    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 102                                      | Not Achieved      | Vertical alignment | 80                                    |
| 7242.211     | 7077.211        | 170.55661  | 185.82222    | 185.82222    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 90                      | 90                                       | Not Achieved      | Vertical alignment | 70                                    |
| 7232.211     | 7067.211        | 170.82422  | 192.43222    | 192.43222    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 80                      | 80                                       | Not Achieved      | Vertical alignment | 60                                    |
| 7222.211     | 7057.211        | 171.12493  | 193.40964    | 193.40964    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 72                      | 72                                       | Not Achieved      | Vertical alignment | 60                                    |
| 7212.211     | 7047.211        | 171.45433  | 193.82902    | 193.82902    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 66                      | 66                                       | Not Achieved      | Vertical alignment | 60                                    |
| 7202.211     | 7037.211        | 171.81659  | 193.82743    | 193.82743    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 77.98379                                 | Not Achieved      | Vertical alignment | 60                                    |
| 7192.211     | 7027.211        | 172.214329 | 193.84334    | 193.84334    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.66171                                | Achieved          |                    | 100                                   |
| 7182.211     | 7017.211        | 172.64323  | 193.90236    | 193.90236    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.40342                                | Achieved          |                    | 100                                   |
| 7172.211     | 7007.211        | 173.10046  | 193.95139    | 193.95139    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.24472                                | Achieved          |                    | 100                                   |
| 7162.211     | 6997.211        | 173.58053  | 194.03554    | 194.03554    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.18393                                | Achieved          |                    | 100                                   |
| 7152.211     | 6987.211        | 174.08722  | 194.10303    | 194.10303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.22712                                | Achieved          |                    | 100                                   |
| 7142.211     | 6977.211        | 174.61827  | 194.1797     | 194.1797     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.36629                                | Achieved          |                    | 100                                   |
| 7132.211     | 6967.211        | 175.13204  | 194.26248    | 194.26248    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.60551                                | Achieved          |                    | 100                                   |
| 7122.211     | 6957.211        | 175.73942  | 194.34539    | 194.34539    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 162.9438                                 | Achieved          |                    | 100                                   |
| 7112.211     | 6947.211        | 176.4326   | 194.39044    | 194.39044    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.33814                                | Achieved          |                    | 100                                   |
| 7102.211     | 6937.211        | 177.20923  | 194.40817    | 194.40817    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 163.74067                                | Achieved          |                    | 100                                   |
| 7092.211     | 6927.211        | 178.05899  | 194.4438     | 194.4438     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.09623                                | Achieved          |                    | 100                                   |
| 7082.211     | 6917.211        | 178.98407  | 194.47463    | 194.47463    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.3829                                 | Achieved          |                    | 100                                   |
| 7072.211     | 6907.211        | 179.9814   | 194.48563    | 194.48563    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.60332                                | Achieved          |                    | 100                                   |
| 7062.211     | 6897.211        | 181.1063   | 194.46516    | 194.46516    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.76942                                | Achieved          |                    | 100                                   |
| 7052.211     | 6887.211        | 182.35489  | 194.43736    | 194.43736    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.88626                                | Achieved          |                    | 100                                   |
| 7042.211     | 6877.211        | 183.72428  | 194.42128    | 194.42128    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.96614                                | Achieved          |                    | 100                                   |
| 7032.211     | 6867.211        | 185.11442  | 194.41284    | 194.41284    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00199                                | Achieved          |                    | 100                                   |
| 7022.211     | 6857.211        | 186.52474  | 194.40056    | 194.40056    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00551                                | Achieved          |                    | 100                                   |
| 7012.211     | 6847.211        | 187.95627  | 194.39379    | 194.39379    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00548                                | Achieved          |                    | 100                                   |
| 7002.211     | 6837.211        | 189.40871  | 194.35643    | 194.35643    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00546                                | Achieved          |                    | 100                                   |
| 6992.211     | 6827.211        | 190.88210  | 194.32109    | 194.32109    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00543                                | Achieved          |                    | 100                                   |
| 6982.211     | 6817.211        | 192.37626  | 194.32369    | 194.32369    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00598                                | Achieved          |                    | 100                                   |
| 6972.211     | 6807.211        | 193.89164  | 194.34222    | 194.34222    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00787                                | Achieved          |                    | 100                                   |
| 6962.211     | 6797.211        | 195.42775  | 194.35633    | 194.35633    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00807                                | Achieved          |                    | 100                                   |
| 6952.211     | 6787.211        | 196.98421  | 194.34501    | 194.34501    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00817                                | Achieved          |                    | 100                                   |
| 6942.211     | 6777.211        | 198.5514   | 194.33514    | 194.33514    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00589                                | Achieved          |                    | 100                                   |
| 6932.211     | 6767.211        | 200.12963  | 194.33945    | 194.33945    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00863                                | Achieved          |                    | 100                                   |
| 6922.211     | 6757.211        | 201.71994  | 194.3486     | 194.3486     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02083                                | Achieved          |                    | 100                                   |
| 6912.211     | 6747.211        | 203.32228  | 194.35046    | 194.35046    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03146                                | Achieved          |                    | 100                                   |
| 6902.211     | 6737.211        | 204.93663  | 194.35464    | 194.35464    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04026                                | Achieved          |                    | 100                                   |
| 6892.211     | 6727.211        | 206.56301  | 194.35981    | 194.35981    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04743                                | Achieved          |                    | 100                                   |
| 6882.211     | 6717.211        | 208.20144  | 194.3532     | 194.3532     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0539                                 | Achieved          |                    | 100                                   |
| 6872.211     | 6707.211        | 209.85193  | 194.40566    | 194.40566    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05706                                | Achieved          |                    | 100                                   |
| 6862.211     | 6697.211        | 211.51448  | 194.43382    | 194.43382    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05998                                | Achieved          |                    | 100                                   |
| 6852.211     | 6687.211        | 213.18917  | 194.49359    | 194.49359    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.06303                                | Achieved          |                    | 100                                   |
| 6842.211     | 6677.211        | 214.87502  | 194.52932    | 194.52932    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05583                                | Achieved          |                    | 100                                   |
| 6832.211     | 6667.211        | 216.57193  | 194.53149    | 194.53149    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05332                                | Achieved          |                    | 100                                   |
| 6822.211     | 6657.211        | 218.27900  | 194.55603    | 194.55603    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05241                                | Achieved          |                    | 100                                   |
| 6812.211     | 6647.211        | 219.99623  | 194.58788    | 194.58788    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05658                                | Achieved          |                    | 100                                   |
| 6802.211     | 6637.211        | 221.72362  | 194.62783    | 194.62783    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05941                                | Achieved          |                    | 100                                   |
| 6792.211     | 6627.211        | 223.46117  | 194.68783    | 194.68783    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.05728                                | Achieved          |                    | 100                                   |
| 6782.211     | 6617.211        | 225.20888  | 194.73161    |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 6332.211     | 6187.211        | 176.20292 | 175.07003    | 175.07003    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.93165                                | Achieved          |                    | 100                                   |
| 6342.211     | 6177.211        | 176.33507 | 175.10403    | 175.10403    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.89424                                | Achieved          |                    | 100                                   |
| 6332.211     | 6167.211        | 176.43446 | 175.12537    | 175.12537    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.91887                                | Achieved          |                    | 100                                   |
| 6322.211     | 6157.211        | 176.33964 | 175.13888    | 175.13888    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.91516                                | Achieved          |                    | 100                                   |
| 6312.211     | 6147.211        | 176.38854 | 175.0524     | 175.0524     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.86006                                | Achieved          |                    | 100                                   |
| 6302.211     | 6137.211        | 176.56433 | 174.85188    | 174.85188    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.79664                                | Achieved          |                    | 100                                   |
| 6292.211     | 6127.211        | 176.50982 | 174.63358    | 174.63358    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.60923                                | Achieved          |                    | 100                                   |
| 6282.211     | 6117.211        | 176.42864 | 174.39018    | 174.39018    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.32424                                | Achieved          |                    | 100                                   |
| 6272.211     | 6107.211        | 176.32994 | 174.17548    | 174.17548    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.95665                                | Achieved          |                    | 100                                   |
| 6262.211     | 6097.211        | 176.16093 | 174.03847    | 174.03847    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.56876                                | Achieved          |                    | 100                                   |
| 6252.211     | 6087.211        | 175.96176 | 173.91386    | 173.91386    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.35293                                | Achieved          |                    | 100                                   |
| 6242.211     | 6077.211        | 175.73855 | 173.8165     | 173.8165     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.14302                                | Achieved          |                    | 100                                   |
| 6232.211     | 6067.211        | 175.54473 | 173.72478    | 173.72478    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.0983                                 | Achieved          |                    | 100                                   |
| 6222.211     | 6057.211        | 175.41696 | 173.59221    | 173.59221    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.19317                                | Achieved          |                    | 100                                   |
| 6212.211     | 6047.211        | 175.32391 | 173.62181    | 173.62181    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.4127                                 | Achieved          |                    | 100                                   |
| 6202.211     | 6037.211        | 175.29876 | 173.66145    | 173.66145    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.74222                                | Achieved          |                    | 100                                   |
| 6192.211     | 6027.211        | 175.33664 | 173.67088    | 173.67088    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.16747                                | Achieved          |                    | 100                                   |
| 6182.211     | 6017.211        | 175.39593 | 173.70203    | 173.70203    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.67469                                | Achieved          |                    | 100                                   |
| 6172.211     | 6007.211        | 175.41082 | 173.74428    | 173.74428    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.23638                                | Achieved          |                    | 100                                   |
| 6162.211     | 5997.211        | 175.43853 | 173.80137    | 173.80137    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.66373                                | Achieved          |                    | 100                                   |
| 6152.211     | 5987.211        | 175.46165 | 173.81134    | 173.81134    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94847                                | Achieved          |                    | 100                                   |
| 6142.211     | 5977.211        | 175.2501  | 173.81079    | 173.81079    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.10107                                | Achieved          |                    | 100                                   |
| 6132.211     | 5967.211        | 175.04938 | 173.81714    | 173.81714    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.14076                                | Achieved          |                    | 100                                   |
| 6122.211     | 5957.211        | 174.80936 | 173.83523    | 173.83523    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.11713                                | Achieved          |                    | 100                                   |
| 6112.211     | 5947.211        | 174.56954 | 173.83534    | 173.83534    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.07253                                | Achieved          |                    | 100                                   |
| 6102.211     | 5937.211        | 174.40224 | 173.82225    | 173.82225    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.03197                                | Achieved          |                    | 100                                   |
| 6092.211     | 5927.211        | 174.27736 | 173.83132    | 173.83132    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00821                                | Achieved          |                    | 100                                   |
| 6082.211     | 5917.211        | 174.15223 | 173.89572    | 173.89572    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00408                                | Achieved          |                    | 100                                   |
| 6072.211     | 5907.211        | 174.07211 | 173.88981    | 173.88981    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00409                                | Achieved          |                    | 100                                   |
| 6062.211     | 5897.211        | 173.96273 | 173.94367    | 173.94367    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0041                                 | Achieved          |                    | 100                                   |
| 6052.211     | 5887.211        | 173.88057 | 174.02423    | 174.02423    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00412                                | Achieved          |                    | 100                                   |
| 6042.211     | 5877.211        | 173.94706 | 174.0825     | 174.0825     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00414                                | Achieved          |                    | 100                                   |
| 6032.211     | 5867.211        | 173.97002 | 174.13707    | 174.13707    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00416                                | Achieved          |                    | 100                                   |
| 6022.211     | 5857.211        | 173.95619 | 174.13914    | 174.13914    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00419                                | Achieved          |                    | 100                                   |
| 6012.211     | 5847.211        | 174.02384 | 174.0841     | 174.0841     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99143                                | Achieved          |                    | 100                                   |
| 6002.211     | 5837.211        | 174.08744 | 173.98691    | 173.98691    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98786                                | Achieved          |                    | 100                                   |
| 5992.211     | 5827.211        | 174.1007  | 173.87263    | 173.87263    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98761                                | Achieved          |                    | 100                                   |
| 5982.211     | 5817.211        | 174.11908 | 173.73734    | 173.73734    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9874                                 | Achieved          |                    | 100                                   |
| 5972.211     | 5807.211        | 174.12201 | 173.60173    | 173.60173    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98722                                | Achieved          |                    | 100                                   |
| 5962.211     | 5797.211        | 174.12731 | 173.46301    | 173.46301    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98708                                | Achieved          |                    | 100                                   |
| 5952.211     | 5787.211        | 174.13118 | 173.28376    | 173.28376    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98698                                | Achieved          |                    | 100                                   |
| 5942.211     | 5777.211        | 174.13283 | 173.07968    | 173.07968    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98692                                | Achieved          |                    | 100                                   |
| 5932.211     | 5767.211        | 174.12048 | 172.89107    | 172.89107    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99349                                | Achieved          |                    | 100                                   |
| 5922.211     | 5757.211        | 174.17591 | 172.73338    | 172.73338    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99348                                | Achieved          |                    | 100                                   |
| 5912.211     | 5747.211        | 174.19395 | 172.60649    | 172.60649    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9933                                 | Achieved          |                    | 100                                   |
| 5902.211     | 5737.211        | 174.2025  | 172.46644    | 172.46644    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99327                                | Achieved          |                    | 100                                   |
| 5892.211     | 5727.211        | 174.28202 | 172.31956    | 172.31956    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99261                                | Achieved          |                    | 100                                   |
| 5882.211     | 5717.211        | 174.34712 | 172.24933    | 172.24933    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99359                                | Achieved          |                    | 100                                   |
| 5872.211     | 5707.211        | 174.42001 | 172.16311    | 172.16311    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9936                                 | Achieved          |                    | 100                                   |
| 5862.211     | 5697.211        | 174.44358 | 172.13267    | 172.13267    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99605                                | Achieved          |                    | 100                                   |
| 5852.211     | 5687.211        | 174.41815 | 172.13213    | 172.13213    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99633                                | Achieved          |                    | 100                                   |
| 5842.211     | 5677.211        | 174.33698 | 172.12215    | 172.12215    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5832.211     | 5667.211        | 174.23057 | 172.1563     | 172.1563     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5822.211     | 5657.211        | 174.10944 | 172.20936    | 172.20936    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5812.211     | 5647.211        | 173.96249 | 172.27965    | 172.27965    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5802.211     | 5637.211        | 173.84318 | 172.38607    | 172.38607    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5792.211     | 5627.211        | 173.6752  | 172.48038    | 172.48038    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5782.211     | 5617.211        | 173.4759  | 172.59869    | 172.59869    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5772.211     | 5607.211        | 173.24879 | 172.71879    | 172.71879    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00828                                | Achieved          |                    | 100                                   |
| 5762.211     | 5597.211        | 173.10596 | 172.80162    | 172.80162    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00796                                | Achieved          |                    | 100                                   |
| 5752.211     | 5587.211        | 172.96831 | 172.86391    | 172.86391    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02644                                | Achieved          |                    | 100                                   |
| 5742.211     | 5577.211        | 172.84201 | 172.89651    | 172.89651    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.04388                                | Achieved          |                    | 100                                   |
| 5732.211     | 5567.211        | 172.68382 | 172.9049     | 172.9049     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05647                                | Achieved          |                    | 100                                   |
| 5722.211     | 5557.211        | 172.57616 | 172.88677    | 172.88677    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.06671                                | Achieved          |                    | 100                                   |
| 5712.211     | 5547.211        | 172.51089 | 172.84109    | 172.84109    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.07235                                | Achieved          |                    | 100                                   |
| 5702.211     | 5537.211        | 172.44533 | 172.75632    | 172.75632    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.07317                                | Achieved          |                    | 100                                   |
| 5692.211     | 5527.211        | 172.4253  | 172.57222    | 172.57222    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.06923                                | Achieved          |                    | 100                                   |
| 5682.211     | 5517.211        | 172.42281 | 172.3463     | 172.3463     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05496                                | Achieved          |                    | 100                                   |
| 5672.211     | 5507.211        | 172.43748 | 172.08744    | 172.08744    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.03232                                | Achieved          |                    | 100                                   |
| 5662.211     | 5497.211        | 172.4774  | 171.91821    | 171.91821    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.02876                                | Released          | Vertical alignment | 100                                   |
| 5652.211     | 5487.211        | 172.5227  | 171.91821    | 171.91821    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.03023                                | Released          | Vertical alignment | 100                                   |
| 5642.211     | 5477.211        | 172.6189  | 171.84507    | 171.84507    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 142.02976                                | Released          | Vertical alignment | 100                                   |
| 5632.211     | 5468.211        | 172.74487 | 171.76522    | 171.76522    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 134                     | 134.0472                                 | Not Achieved      | Vertical alignment | 90                                    |
| 5622.211     | 5458.211        | 172.82822 | 171.6023     | 171.6023     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 128                     | 128.03463                                | Not Achieved      | Vertical alignment | 90                                    |
| 5612.211     | 5449.211        | 172.87728 | 171.43615    | 171.43615    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 122                     | 122.02621                                | Not Achieved      | Vertical alignment | 90                                    |
| 5602.211     | 5440.211        | 173.06285 | 171.16816    | 171.16816    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 118                     | 118.07277                                | Not Achieved      | Vertical alignment | 80                                    |
| 5592.211     | 5431.211        | 173.13683 | 170.7536     | 170.7536     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 116.01146                                | Not Achieved      | Vertical alignment | 80                                    |
| 5582.211     | 5422.211        | 173.18283 | 170.52893    | 170.52893    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 109.97339                                | Not Achieved      | Vertical alignment | 80                                    |
| 5572.211     | 5413.211        | 1         |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

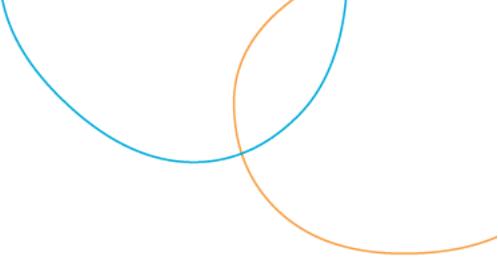
| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 5132.211     | 4967.211        | 173.07263 | 180.24256    | 180.24256    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.38391                                | Achieved          |                    | 100                                   |
| 5132.211     | 4957.211        | 173.8188  | 180.42324    | 180.42324    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.36076                                | Achieved          |                    | 100                                   |
| 5112.211     | 4947.211        | 176.49269 | 180.6123     | 180.6123     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.38971                                | Achieved          |                    | 100                                   |
| 5102.211     | 4937.211        | 177.07551 | 180.78888    | 180.78888    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.46602                                | Achieved          |                    | 100                                   |
| 5092.211     | 4927.211        | 177.59615 | 180.9975     | 180.9975     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.58209                                | Achieved          |                    | 100                                   |
| 5082.211     | 4917.211        | 178.02353 | 181.24014    | 181.24014    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.72357                                | Achieved          |                    | 100                                   |
| 5072.211     | 4907.211        | 178.37751 | 181.54801    | 181.54801    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.89302                                | Achieved          |                    | 100                                   |
| 5062.211     | 4897.211        | 178.65944 | 181.94832    | 181.94832    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93844                                | Achieved          |                    | 100                                   |
| 5052.211     | 4887.211        | 178.92598 | 182.18931    | 182.18931    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.01725                                | Achieved          |                    | 100                                   |
| 5042.211     | 4877.211        | 179.16993 | 182.59521    | 182.59521    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.06733                                | Achieved          |                    | 100                                   |
| 5032.211     | 4867.211        | 179.40295 | 183.03728    | 183.03728    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.09289                                | Achieved          |                    | 100                                   |
| 5022.211     | 4857.211        | 179.60429 | 183.50927    | 183.50927    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.09517                                | Achieved          |                    | 100                                   |
| 5012.211     | 4847.211        | 179.76804 | 184.02578    | 184.02578    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.08982                                | Achieved          |                    | 100                                   |
| 5002.211     | 4837.211        | 179.95996 | 184.60429    | 184.60429    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.07894                                | Achieved          |                    | 100                                   |
| 4992.211     | 4827.211        | 180.1281  | 185.22705    | 185.22705    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.05935                                | Achieved          |                    | 100                                   |
| 4982.211     | 4817.211        | 180.306   | 185.90904    | 185.90904    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0332                                 | Achieved          |                    | 100                                   |
| 4972.211     | 4807.211        | 180.45354 | 186.66039    | 186.66039    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00647                                | Achieved          |                    | 100                                   |
| 4962.211     | 4797.211        | 180.63126 | 187.53445    | 187.53445    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00648                                | Achieved          |                    | 100                                   |
| 4952.211     | 4787.211        | 180.81523 | 188.58835    | 188.58835    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.0065                                 | Achieved          |                    | 100                                   |
| 4942.211     | 4777.211        | 181.00075 | 189.7664     | 189.7664     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00653                                | Achieved          |                    | 100                                   |
| 4932.211     | 4767.211        | 181.18781 | 190.97793    | 190.97793    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00655                                | Achieved          |                    | 100                                   |
| 4922.211     | 4757.211        | 181.40926 | 192.2717     | 192.2717     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9955                                 | Achieved          |                    | 100                                   |
| 4912.211     | 4747.211        | 181.69374 | 193.73501    | 193.73501    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94237                                | Achieved          |                    | 100                                   |
| 4902.211     | 4737.211        | 181.99495 | 194.72133    | 194.72133    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.83196                                | Achieved          |                    | 100                                   |
| 4892.211     | 4727.211        | 182.31156 | 195.79799    | 195.79799    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.63353                                | Achieved          |                    | 100                                   |
| 4882.211     | 4717.211        | 182.68666 | 196.73791    | 196.73791    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.40354                                | Achieved          |                    | 100                                   |
| 4872.211     | 4707.211        | 183.11938 | 197.56575    | 197.56575    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.05699                                | Achieved          |                    | 100                                   |
| 4862.211     | 4697.211        | 183.56898 | 198.27489    | 198.27489    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.61832                                | Achieved          |                    | 100                                   |
| 4852.211     | 4687.211        | 184.06274 | 198.90195    | 198.90195    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.20359                                | Achieved          |                    | 100                                   |
| 4842.211     | 4677.211        | 184.61139 | 199.43415    | 199.43415    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.81564                                | Achieved          |                    | 100                                   |
| 4832.211     | 4667.211        | 185.21014 | 199.88857    | 199.88857    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.45875                                | Achieved          |                    | 100                                   |
| 4822.211     | 4657.211        | 185.863   | 200.0034     | 200.0034     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 158                     | 155.42798                                | Released          | Vertical alignment | 100                                   |
| 4812.211     | 4647.211        | 186.57702 | 199.92969    | 199.92969    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 145.61082                                | Released          | Vertical alignment | 100                                   |
| 4802.211     | 4637.211        | 187.35185 | 199.84507    | 199.84507    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 131.78922                                | Not Achieved      | Vertical alignment | 90                                    |
| 4792.211     | 4627.211        | 188.18662 | 199.84507    | 199.84507    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 124                     | 121.92978                                | Not Achieved      | Vertical alignment | 90                                    |
| 4782.211     | 4617.211        | 189.04616 | 199.92969    | 199.92969    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 116                     | 114.029                                  | Not Achieved      | Vertical alignment | 80                                    |
| 4772.211     | 4607.211        | 190.03828 | 200.07971    | 200.07971    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 108.12564                                | Not Achieved      | Vertical alignment | 80                                    |
| 4762.211     | 4597.211        | 191.2325  | 200.25876    | 200.25876    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 106                     | 104.25802                                | Not Achieved      | Vertical alignment | 80                                    |
| 4752.211     | 4587.211        | 192.51116 | 200.4245     | 200.4245     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 106                     | 104.43668                                | Not Achieved      | Vertical alignment | 80                                    |
| 4742.211     | 4577.211        | 194.43767 | 200.44386    | 200.44386    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 100.72623                                | Not Achieved      | Vertical alignment | 80                                    |
| 4732.211     | 4567.211        | 195.57834 | 200.44239    | 200.44239    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 93.11842                                 | Not Achieved      | Vertical alignment | 70                                    |
| 4722.211     | 4557.211        | 196.38399 | 200.41189    | 200.41189    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 88                      | 87.37226                                 | Not Achieved      | Vertical alignment | 70                                    |
| 4712.211     | 4547.211        | 197.46391 | 200.32113    | 200.32113    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 84                      | 83.5614                                  | Not Achieved      | Vertical alignment | 70                                    |
| 4702.211     | 4537.211        | 198.23901 | 200.24432    | 200.24432    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 78                      | 77.70661                                 | Not Achieved      | Vertical alignment | 60                                    |
| 4692.211     | 4527.211        | 198.90595 | 200.05229    | 200.05229    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 76                      | 73.73959                                 | Not Achieved      | Vertical alignment | 60                                    |
| 4682.211     | 4517.211        | 199.48079 | 199.79362    | 199.79362    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 74                      | 73.79516                                 | Not Achieved      | Vertical alignment | 60                                    |
| 4672.211     | 4507.211        | 199.96985 | 199.176      | 199.176      | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 80                      | 78.82165                                 | Not Achieved      | Vertical alignment | 60                                    |
| 4662.211     | 4497.211        | 200.37971 | 198.12616    | 198.12616    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.8639                                 | Achieved          |                    | 100                                   |
| 4652.211     | 4487.211        | 200.64137 | 198.1928     | 198.1928     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.89007                                | Achieved          |                    | 100                                   |
| 4642.211     | 4477.211        | 200.74976 | 198.30202    | 198.30202    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.92365                                | Achieved          |                    | 100                                   |
| 4632.211     | 4467.211        | 200.8872  | 198.40974    | 198.40974    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94918                                | Achieved          |                    | 100                                   |
| 4622.211     | 4457.211        | 200.95224 | 198.49424    | 198.49424    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9683                                 | Achieved          |                    | 100                                   |
| 4612.211     | 4447.211        | 200.93222 | 198.57813    | 198.57813    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98227                                | Achieved          |                    | 100                                   |
| 4602.211     | 4437.211        | 199.87304 | 198.63374    | 198.63374    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99193                                | Achieved          |                    | 100                                   |
| 4592.211     | 4427.211        | 199.476   | 198.67279    | 198.67279    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00609                                | Achieved          |                    | 100                                   |
| 4582.211     | 4417.211        | 199.15126 | 198.70932    | 198.70932    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00816                                | Achieved          |                    | 100                                   |
| 4572.211     | 4407.211        | 198.87119 | 198.73063    | 198.73063    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00806                                | Achieved          |                    | 100                                   |
| 4562.211     | 4397.211        | 198.55107 | 198.73681    | 198.73681    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00796                                | Achieved          |                    | 100                                   |
| 4552.211     | 4387.211        | 198.20621 | 198.76677    | 198.76677    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00784                                | Achieved          |                    | 100                                   |
| 4542.211     | 4377.211        | 198.40935 | 198.76378    | 198.76378    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00781                                | Achieved          |                    | 100                                   |
| 4532.211     | 4367.211        | 198.36446 | 198.78247    | 198.78247    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00776                                | Achieved          |                    | 100                                   |
| 4522.211     | 4357.211        | 198.32049 | 198.78765    | 198.78765    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00773                                | Achieved          |                    | 100                                   |
| 4512.211     | 4347.211        | 198.3761  | 198.82259    | 198.82259    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00772                                | Achieved          |                    | 100                                   |
| 4502.211     | 4337.211        | 198.40206 | 198.97741    | 198.97741    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00773                                | Achieved          |                    | 100                                   |
| 4492.211     | 4327.211        | 198.43462 | 199.16048    | 199.16048    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00783                                | Achieved          |                    | 100                                   |
| 4482.211     | 4317.211        | 198.54357 | 199.40125    | 199.40125    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00529                                | Achieved          |                    | 100                                   |
| 4472.211     | 4307.211        | 198.66059 | 199.71949    | 199.71949    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00336                                | Achieved          |                    | 100                                   |
| 4462.211     | 4297.211        | 198.79038 | 200.10031    | 200.10031    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00544                                | Achieved          |                    | 100                                   |
| 4452.211     | 4287.211        | 198.83862 | 200.4925     | 200.4925     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00553                                | Achieved          |                    | 100                                   |
| 4442.211     | 4277.211        | 198.90477 | 200.89115    | 200.89115    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00563                                | Achieved          |                    | 100                                   |
| 4432.211     | 4267.211        | 198.98974 | 201.3445     | 201.3445     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00574                                | Achieved          |                    | 100                                   |
| 4422.211     | 4257.211        | 199.09086 | 201.82908    | 201.82908    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9974                                 | Achieved          |                    | 100                                   |
| 4412.211     | 4247.211        | 199.20478 | 202.30938    | 202.30938    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9974                                 | Achieved          |                    | 100                                   |
| 4402.211     | 4237.211        | 199.04197 | 202.82297    | 202.82297    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.9974                                 | Achieved          |                    | 100                                   |
| 4392.211     | 4227.211        | 199.06982 | 203.36427    | 203.36427    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99741                                | Achieved          |                    | 100                                   |
| 4382.211     | 4217.211        | 199.06331 | 203.92503    | 203.92503    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99741                                | Achieved          |                    | 100                                   |
| 4372.211     | 4207.211        | 199.07177 | 204.48507    | 204.48507    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99741                                | Achieved          |                    | 100                                   |
| 4362.211     | 4197.211        | 199.08856 | 205.00845    | 205.00845    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99742                                | Achieved          |                    | 100                                   |
| 4352.211     | 4187.211        | 199       |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD Zsec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 3922.211     | 3737.211        | 197.18622 | 196.1764     | 196.1764     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.02604                                | Achieved          |                    | 100                                   |
| 3912.211     | 3747.211        | 197.10074 | 196.21149    | 196.21149    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.01443                                | Achieved          |                    | 100                                   |
| 3902.211     | 3737.211        | 197.04069 | 196.23454    | 196.23454    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00211                                | Achieved          |                    | 100                                   |
| 3892.211     | 3727.211        | 196.98988 | 196.25246    | 196.25246    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00481                                | Achieved          |                    | 100                                   |
| 3882.211     | 3717.211        | 196.94729 | 196.28705    | 196.28705    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00502                                | Achieved          |                    | 100                                   |
| 3872.211     | 3707.211        | 196.93222 | 196.31979    | 196.31979    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00498                                | Achieved          |                    | 100                                   |
| 3862.211     | 3697.211        | 196.88401 | 196.31755    | 196.31755    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00494                                | Achieved          |                    | 100                                   |
| 3852.211     | 3687.211        | 196.80554 | 196.32141    | 196.32141    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00493                                | Achieved          |                    | 100                                   |
| 3842.211     | 3677.211        | 196.7392  | 196.34069    | 196.34069    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00489                                | Achieved          |                    | 100                                   |
| 3832.211     | 3667.211        | 196.70392 | 196.37449    | 196.37449    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00487                                | Achieved          |                    | 100                                   |
| 3822.211     | 3657.211        | 196.66913 | 196.39856    | 196.39856    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00486                                | Achieved          |                    | 100                                   |
| 3812.211     | 3647.211        | 196.63143 | 196.40085    | 196.40085    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00486                                | Achieved          |                    | 100                                   |
| 3802.211     | 3637.211        | 196.60683 | 196.37623    | 196.37623    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00486                                | Achieved          |                    | 100                                   |
| 3792.211     | 3627.211        | 196.58302 | 196.33541    | 196.33541    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00488                                | Achieved          |                    | 100                                   |
| 3782.211     | 3617.211        | 196.53946 | 196.30562    | 196.30562    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00489                                | Achieved          |                    | 100                                   |
| 3772.211     | 3607.211        | 196.49738 | 196.24844    | 196.24844    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00492                                | Achieved          |                    | 100                                   |
| 3762.211     | 3597.211        | 196.47223 | 196.15334    | 196.15334    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00493                                | Achieved          |                    | 100                                   |
| 3752.211     | 3587.211        | 196.49624 | 196.05325    | 196.05325    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00499                                | Achieved          |                    | 100                                   |
| 3742.211     | 3577.211        | 196.53016 | 195.93989    | 195.93989    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00504                                | Achieved          |                    | 100                                   |
| 3732.211     | 3567.211        | 196.5417  | 195.83637    | 195.83637    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00276                                | Achieved          |                    | 100                                   |
| 3722.211     | 3557.211        | 196.5677  | 195.76543    | 195.76543    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00269                                | Achieved          |                    | 100                                   |
| 3712.211     | 3547.211        | 196.60837 | 195.70649    | 195.70649    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00269                                | Achieved          |                    | 100                                   |
| 3702.211     | 3537.211        | 196.61937 | 195.66201    | 195.66201    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00269                                | Achieved          |                    | 100                                   |
| 3692.211     | 3527.211        | 196.61693 | 195.62663    | 195.62663    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00269                                | Achieved          |                    | 100                                   |
| 3682.211     | 3517.211        | 196.62739 | 195.6019     | 195.6019     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00269                                | Achieved          |                    | 100                                   |
| 3672.211     | 3507.211        | 196.63593 | 195.58984    | 195.58984    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00269                                | Achieved          |                    | 100                                   |
| 3662.211     | 3497.211        | 196.68883 | 195.58732    | 195.58732    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00269                                | Achieved          |                    | 100                                   |
| 3652.211     | 3487.211        | 196.70169 | 195.58081    | 195.58081    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00269                                | Achieved          |                    | 100                                   |
| 3642.211     | 3477.211        | 196.69281 | 195.58988    | 195.58988    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00269                                | Achieved          |                    | 100                                   |
| 3632.211     | 3467.211        | 196.65429 | 195.60921    | 195.60921    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00269                                | Achieved          |                    | 100                                   |
| 3622.211     | 3457.211        | 196.6201  | 195.61966    | 195.61966    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.00269                                | Achieved          |                    | 100                                   |
| 3612.211     | 3447.211        | 196.58243 | 195.59643    | 195.59643    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99908                                | Achieved          |                    | 100                                   |
| 3602.211     | 3437.211        | 196.50285 | 195.59601    | 195.59601    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99738                                | Achieved          |                    | 100                                   |
| 3592.211     | 3427.211        | 196.4078  | 195.5238     | 195.5238     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99929                                | Achieved          |                    | 100                                   |
| 3582.211     | 3417.211        | 196.29725 | 195.47298    | 195.47298    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99627                                | Achieved          |                    | 100                                   |
| 3572.211     | 3407.211        | 196.18772 | 195.43347    | 195.43347    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99623                                | Achieved          |                    | 100                                   |
| 3562.211     | 3397.211        | 196.09633 | 195.40883    | 195.40883    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99623                                | Achieved          |                    | 100                                   |
| 3552.211     | 3387.211        | 196.02971 | 195.40339    | 195.40339    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99623                                | Achieved          |                    | 100                                   |
| 3542.211     | 3377.211        | 195.98413 | 195.40322    | 195.40322    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99621                                | Achieved          |                    | 100                                   |
| 3532.211     | 3367.211        | 195.94292 | 195.40735    | 195.40735    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99621                                | Achieved          |                    | 100                                   |
| 3522.211     | 3357.211        | 195.91384 | 195.40399    | 195.40399    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99621                                | Achieved          |                    | 100                                   |
| 3512.211     | 3347.211        | 195.8924  | 195.38805    | 195.38805    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99621                                | Achieved          |                    | 100                                   |
| 3502.211     | 3337.211        | 195.89261 | 195.37891    | 195.37891    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99621                                | Achieved          |                    | 100                                   |
| 3492.211     | 3327.211        | 195.88067 | 195.37474    | 195.37474    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99621                                | Achieved          |                    | 100                                   |
| 3482.211     | 3317.211        | 195.88232 | 195.38839    | 195.38839    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99624                                | Achieved          |                    | 100                                   |
| 3472.211     | 3307.211        | 195.89079 | 195.39034    | 195.39034    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99623                                | Achieved          |                    | 100                                   |
| 3462.211     | 3297.211        | 195.91374 | 195.41923    | 195.41923    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99628                                | Achieved          |                    | 100                                   |
| 3452.211     | 3287.211        | 195.91195 | 195.43346    | 195.43346    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99647                                | Achieved          |                    | 100                                   |
| 3442.211     | 3277.211        | 195.87984 | 195.46635    | 195.46635    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99788                                | Achieved          |                    | 100                                   |
| 3432.211     | 3267.211        | 195.83994 | 195.44534    | 195.44534    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.99949                                | Achieved          |                    | 100                                   |
| 3422.211     | 3257.211        | 195.79378 | 195.42156    | 195.42156    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00569                                | Achieved          |                    | 100                                   |
| 3412.211     | 3247.211        | 195.73784 | 195.39081    | 195.39081    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00563                                | Achieved          |                    | 100                                   |
| 3402.211     | 3237.211        | 195.71694 | 195.36365    | 195.36365    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00502                                | Achieved          |                    | 100                                   |
| 3392.211     | 3227.211        | 195.70208 | 195.34007    | 195.34007    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00368                                | Achieved          |                    | 100                                   |
| 3382.211     | 3217.211        | 195.70443 | 195.29168    | 195.29168    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00217                                | Achieved          |                    | 100                                   |
| 3372.211     | 3207.211        | 195.70359 | 195.25618    | 195.25618    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00249                                | Achieved          |                    | 100                                   |
| 3362.211     | 3197.211        | 195.71043 | 195.23277    | 195.23277    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00394                                | Achieved          |                    | 100                                   |
| 3352.211     | 3187.211        | 195.69519 | 195.18246    | 195.18246    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00845                                | Achieved          |                    | 100                                   |
| 3342.211     | 3177.211        | 195.68249 | 195.11456    | 195.11456    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00996                                | Achieved          |                    | 100                                   |
| 3332.211     | 3167.211        | 195.67331 | 195.00378    | 195.00378    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00926                                | Achieved          |                    | 100                                   |
| 3322.211     | 3157.211        | 195.68622 | 194.83645    | 194.83645    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00793                                | Achieved          |                    | 100                                   |
| 3312.211     | 3147.211        | 195.68899 | 194.63024    | 194.63024    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00503                                | Achieved          |                    | 100                                   |
| 3302.211     | 3137.211        | 195.68981 | 194.38997    | 194.38997    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.98237                                | Achieved          |                    | 100                                   |
| 3292.211     | 3127.211        | 195.73666 | 194.11729    | 194.11729    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.92157                                | Achieved          |                    | 100                                   |
| 3282.211     | 3117.211        | 195.76401 | 193.7912     | 193.7912     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.86526                                | Achieved          |                    | 100                                   |
| 3272.211     | 3107.211        | 195.76021 | 193.35673    | 193.35673    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.8047                                 | Achieved          |                    | 100                                   |
| 3262.211     | 3100.211        | 195.73033 | 192.92071    | 192.92071    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 161.77248                                | Released          | Vertical alignment | 100                                   |
| 3252.211     | 3100.211        | 195.70861 | 192.92071    | 192.92071    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 151.81803                                | Released          | Vertical alignment | 100                                   |
| 3242.211     | 3098.211        | 195.67293 | 192.7804     | 192.7804     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 144                     | 143.85518                                | Released          | Vertical alignment | 100                                   |
| 3232.211     | 3096.211        | 195.65005 | 192.63146    | 192.63146    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 136                     | 135.90576                                | Not Achieved      | Vertical alignment | 90                                    |
| 3222.211     | 3096.211        | 195.6114  | 192.63146    | 192.63146    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 135                     | 135.90345                                | Not Achieved      | Vertical alignment | 90                                    |
| 3212.211     | 3094.211        | 195.57212 | 192.47317    | 192.47317    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 118                     | 118.05578                                | Not Achieved      | Vertical alignment | 80                                    |
| 3202.211     | 3092.211        | 195.54823 | 192.31488    | 192.31488    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 110                     | 110.09283                                | Not Achieved      | Vertical alignment | 80                                    |
| 3192.211     | 3090.211        | 195.51129 | 192.14527    | 192.14527    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 102                     | 102.11491                                | Not Achieved      | Vertical alignment | 80                                    |
| 3182.211     | 3088.211        | 195.45076 | 191.97532    | 191.97532    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 94                      | 94.12289                                 | Not Achieved      | Vertical alignment | 70                                    |
| 3172.211     | 3086.211        | 195.37236 | 191.80349    | 191.80349    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 86                      | 86.11779                                 | Not Achieved      | Vertical alignment | 70                                    |
| 3162.211     | 3082.211        | 195.22959 | 191.45542    | 191.45542    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 80                      | 80.09984                                 | Not Achieved      | Vertical alignment | 60                                    |
| 3152.211     | 3076.211        | 195.04061 | 190.93291    | 190.93291    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 76                      | 76.08019                                 | Not Achieved      | Vertical alignment | 60                                    |
| 3142.211     |                 |           |              |              |              |                     |               |                         |                        |                         |  |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD 2sec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 2682.211     | 2517.211        | 171.06214 | 173.95666    | 173.85666    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 157.35457                                | Achieved          |                    | 100                                   |
| 2672.211     | 2507.211        | 171.13097 | 174.22633    | 174.22633    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 158.6207                                 | Achieved          |                    | 100                                   |
| 2662.211     | 2497.211        | 171.20493 | 174.58293    | 174.58293    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.2388                                 | Achieved          |                    | 100                                   |
| 2652.211     | 2487.211        | 171.28388 | 174.96846    | 174.96846    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 161.74213                                | Achieved          |                    | 100                                   |
| 2642.211     | 2477.211        | 171.36839 | 175.39393    | 175.39393    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.99248                                | Achieved          |                    | 100                                   |
| 2632.211     | 2467.211        | 171.45823 | 175.86033    | 175.86033    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.9936                                 | Achieved          |                    | 100                                   |
| 2622.211     | 2457.211        | 171.55341 | 176.36964    | 176.36964    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.55556                                | Achieved          |                    | 100                                   |
| 2612.211     | 2447.211        | 171.65494 | 176.91212    | 176.91212    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.82061                                | Achieved          |                    | 100                                   |
| 2602.211     | 2437.211        | 171.76381 | 177.48974    | 177.48974    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.76799                                | Achieved          |                    | 100                                   |
| 2592.211     | 2427.211        | 171.87991 | 178.10321    | 178.10321    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.46338                                | Achieved          |                    | 100                                   |
| 2582.211     | 2417.211        | 172.00324 | 178.76668    | 178.76668    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.01546                                | Achieved          |                    | 100                                   |
| 2572.211     | 2407.211        | 172.13392 | 179.48111    | 179.48111    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.3702                                 | Achieved          |                    | 100                                   |
| 2562.211     | 2397.211        | 172.27197 | 180.24861    | 180.24861    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 162.5488                                 | Released          | Inside Curve       | 100                                   |
| 2552.211     | 2387.211        | 172.41754 | 181.07111    | 181.07111    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 162.25726                                | Released          | Inside Curve       | 100                                   |
| 2542.211     | 2377.211        | 172.57067 | 181.95061    | 181.95061    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 162.30973                                | Released          | Inside Curve       | 100                                   |
| 2532.211     | 2367.211        | 172.73132 | 182.88811    | 182.88811    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 162.29059                                | Not Achieved      | Inside Curve       | 90                                    |
| 2522.211     | 2357.211        | 172.89959 | 183.89461    | 183.89461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 162.29272                                | Not Achieved      | Inside Curve       | 90                                    |
| 2512.211     | 2347.211        | 173.07552 | 184.97011    | 184.97011    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 162.24774                                | Not Achieved      | Inside Curve       | 90                                    |
| 2502.211     | 2337.211        | 173.25915 | 186.10561    | 186.10561    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 162.11717                                | Not Achieved      | Inside Curve       | 80                                    |
| 2492.211     | 2327.211        | 173.45148 | 187.30111    | 187.30111    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.39059                                | Achieved          |                    | 100                                   |
| 2482.211     | 2317.211        | 173.65261 | 188.55761    | 188.55761    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.99703                                | Achieved          |                    | 100                                   |
| 2472.211     | 2307.211        | 173.86254 | 189.87511    | 189.87511    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 159.8861                                 | Achieved          |                    | 100                                   |
| 2462.211     | 2297.211        | 174.08127 | 191.25461    | 191.25461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 159.93369                                | Achieved          |                    | 100                                   |
| 2452.211     | 2287.211        | 174.30880 | 192.69711    | 192.69711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.13222                                | Achieved          |                    | 100                                   |
| 2442.211     | 2277.211        | 174.54633 | 194.21461    | 194.21461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.37399                                | Achieved          |                    | 100                                   |
| 2432.211     | 2267.211        | 174.79386 | 195.80711    | 195.80711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.65973                                | Achieved          |                    | 100                                   |
| 2422.211     | 2257.211        | 175.05139 | 197.47461    | 197.47461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 160.98167                                | Achieved          |                    | 100                                   |
| 2412.211     | 2247.211        | 175.31892 | 199.21711    | 199.21711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 161.29913                                | Achieved          |                    | 100                                   |
| 2402.211     | 2237.211        | 175.59645 | 201.03461    | 201.03461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 161.64605                                | Achieved          |                    | 100                                   |
| 2392.211     | 2227.211        | 175.88498 | 202.92711    | 202.92711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.02619                                | Achieved          |                    | 100                                   |
| 2382.211     | 2217.211        | 176.18451 | 204.89461    | 204.89461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.44233                                | Achieved          |                    | 100                                   |
| 2372.211     | 2207.211        | 176.49504 | 206.93711    | 206.93711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 162.9027                                 | Achieved          |                    | 100                                   |
| 2362.211     | 2197.211        | 176.81657 | 209.05461    | 209.05461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.40897                                | Achieved          |                    | 100                                   |
| 2352.211     | 2187.211        | 177.14910 | 211.24711    | 211.24711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 163.96703                                | Achieved          |                    | 100                                   |
| 2342.211     | 2177.211        | 177.49263 | 213.51461    | 213.51461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.58119                                | Achieved          |                    | 100                                   |
| 2332.211     | 2167.211        | 177.84816 | 215.85711    | 215.85711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 161.37236                                | Released          | Vertical alignment | 100                                   |
| 2322.211     | 2157.211        | 178.21469 | 218.27461    | 218.27461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 153.72424                                | Released          | Vertical alignment | 100                                   |
| 2312.211     | 2147.211        | 178.59322 | 220.76711    | 220.76711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 145.8381                                 | Released          | Vertical alignment | 100                                   |
| 2302.211     | 2137.211        | 178.98375 | 223.33461    | 223.33461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 137.88897                                | Not Achieved      | Vertical alignment | 90                                    |
| 2292.211     | 2127.211        | 179.38628 | 225.97711    | 225.97711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 131.93879                                | Not Achieved      | Vertical alignment | 90                                    |
| 2282.211     | 2117.211        | 179.80081 | 228.69461    | 228.69461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 125.96268                                | Not Achieved      | Vertical alignment | 90                                    |
| 2272.211     | 2107.211        | 180.22734 | 231.48711    | 231.48711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.94891                                | Achieved          |                    | 100                                   |
| 2262.211     | 2097.211        | 180.66587 | 234.35461    | 234.35461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.93351                                | Achieved          |                    | 100                                   |
| 2252.211     | 2087.211        | 181.11640 | 237.29711    | 237.29711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.91168                                | Achieved          |                    | 100                                   |
| 2242.211     | 2077.211        | 181.57993 | 240.31461    | 240.31461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.89021                                | Achieved          |                    | 100                                   |
| 2232.211     | 2067.211        | 182.05646 | 243.40711    | 243.40711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.86988                                | Achieved          |                    | 100                                   |
| 2222.211     | 2057.211        | 182.54699 | 246.57461    | 246.57461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.85015                                | Achieved          |                    | 100                                   |
| 2212.211     | 2047.211        | 183.05152 | 249.81711    | 249.81711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.83194                                | Achieved          |                    | 100                                   |
| 2202.211     | 2037.211        | 183.57005 | 253.13461    | 253.13461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.77021                                | Achieved          |                    | 100                                   |
| 2192.211     | 2027.211        | 184.10258 | 256.52711    | 256.52711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.74006                                | Achieved          |                    | 100                                   |
| 2182.211     | 2017.211        | 184.64911 | 260.00461    | 260.00461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.70165                                | Achieved          |                    | 100                                   |
| 2172.211     | 2007.211        | 185.20964 | 263.56711    | 263.56711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.65193                                | Achieved          |                    | 100                                   |
| 2162.211     | 1997.211        | 185.78417 | 267.21461    | 267.21461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.62874                                | Achieved          |                    | 100                                   |
| 2152.211     | 1987.211        | 186.37270 | 270.94711    | 270.94711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.61708                                | Achieved          |                    | 100                                   |
| 2142.211     | 1977.211        | 186.97523 | 274.76461    | 274.76461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.61909                                | Achieved          |                    | 100                                   |
| 2132.211     | 1967.211        | 187.59176 | 278.66711    | 278.66711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.63295                                | Achieved          |                    | 100                                   |
| 2122.211     | 1957.211        | 188.22229 | 282.65461    | 282.65461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.65778                                | Achieved          |                    | 100                                   |
| 2112.211     | 1947.211        | 188.86682 | 286.72711    | 286.72711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.70337                                | Achieved          |                    | 100                                   |
| 2102.211     | 1937.211        | 189.52535 | 290.88461    | 290.88461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 164.76833                                | Achieved          |                    | 100                                   |
| 2092.211     | 1927.211        | 190.19788 | 295.12711    | 295.12711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 162                     | 151.79164                                | Released          | Vertical alignment | 100                                   |
| 2082.211     | 1917.211        | 190.88541 | 299.45461    | 299.45461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 143.82974                                | Released          | Vertical alignment | 100                                   |
| 2072.211     | 1907.211        | 191.58794 | 303.86711    | 303.86711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 135.86365                                | Not Achieved      | Vertical alignment | 90                                    |
| 2062.211     | 1897.211        | 192.30547 | 308.36461    | 308.36461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 127.89367                                | Not Achieved      | Vertical alignment | 90                                    |
| 2052.211     | 1887.211        | 193.03799 | 312.94711    | 312.94711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 119.92013                                | Not Achieved      | Vertical alignment | 90                                    |
| 2042.211     | 1877.211        | 193.78552 | 317.61461    | 317.61461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 113.94343                                | Not Achieved      | Vertical alignment | 90                                    |
| 2032.211     | 1867.211        | 194.54805 | 322.36711    | 322.36711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 109.96251                                | Not Achieved      | Vertical alignment | 80                                    |
| 2022.211     | 1857.211        | 195.32558 | 327.20461    | 327.20461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 107.97058                                | Not Achieved      | Vertical alignment | 80                                    |
| 2012.211     | 1847.211        | 196.11811 | 332.12711    | 332.12711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 111.99644                                | Not Achieved      | Vertical alignment | 80                                    |
| 2002.211     | 1837.211        | 196.92564 | 337.13461    | 337.13461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 126.00993                                | Not Achieved      | Vertical alignment | 80                                    |
| 1992.211     | 1827.211        | 197.74817 | 342.22711    | 342.22711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 156.01004                                | Released          | Vertical alignment | 100                                   |
| 1982.211     | 1817.211        | 198.58570 | 347.40461    | 347.40461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00909                                | Achieved          |                    | 100                                   |
| 1972.211     | 1807.211        | 199.43823 | 352.66711    | 352.66711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00617                                | Achieved          |                    | 100                                   |
| 1962.211     | 1797.211        | 200.30576 | 358.01461    | 358.01461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 165.00321                                | Achieved          |                    | 100                                   |
| 1952.211     | 1787.211        | 201.18829 | 363.44711    | 363.44711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 158.00022                                | Released          | Vertical alignment | 100                                   |
| 1942.211     | 1777.211        | 202.08582 | 368.96461    | 368.96461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 150                                      | Released          | Vertical alignment | 100                                   |
| 1932.211     | 1767.211        | 203.00835 | 374.56711    | 374.56711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 144                                      | Released          | Vertical alignment | 100                                   |
| 1922.211     | 1757.211        | 203.94588 | 380.25461    | 380.25461    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 164                     | 136                                      | Not Achieved      | Vertical alignment | 90                                    |
| 1912.211     | 1747.211        | 204.89841 | 386.02711    | 386.02711    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 163                     | 128                                      |                   |                    |                                       |

| Eye Position | Object Position | Eye Level | Actual Level | Object Level | Design Speed | Instantaneous Grade | Average Grade | Sight Distance Required | Sight Distance Relaxed | Sight Distance Achieved | Sight Distance Along Sight Line Achieved | Sight Line Status | Obstruction        | SSD Speed Achieved EDD 2sec RT (km/h) |
|--------------|-----------------|-----------|--------------|--------------|--------------|---------------------|---------------|-------------------------|------------------------|-------------------------|--|-------------------|--------------------|---------------------------------------|
| 1472.211     | 1312.211        | 191.54951 | 190.52794    | 190.52794    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 160                     | 160.0588                                 | Released          | Vertical alignment | 100                                   |
| 1462.211     | 1310.211        | 191.53792 | 190.46966    | 190.46966    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 152.06346                                | Released          | Vertical alignment | 100                                   |
| 1452.211     | 1306.211        | 191.58764 | 190.33491    | 190.33491    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 146                     | 146.0649                                 | Released          | Vertical alignment | 100                                   |
| 1442.211     | 1300.211        | 191.62922 | 190.19698    | 190.19698    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 142                     | 142.06386                                | Released          | Vertical alignment | 100                                   |
| 1432.211     | 1292.211        | 191.67003 | 189.98241    | 189.98241    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 140                     | 140.06118                                | Not Achieved      | Vertical alignment | 90                                    |
| 1422.211     | 1270.211        | 191.73837 | 189.46789    | 189.46789    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 152                     | 152.0546                                 | Released          | Vertical alignment | 100                                   |
| 1412.211     | 1247.211        | 191.79392 | 189.06852    | 189.06852    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04951                                | Achieved          |                    | 100                                   |
| 1402.211     | 1227.211        | 191.87322 | 188.90633    | 188.90633    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04649                                | Achieved          |                    | 100                                   |
| 1392.211     | 1217.211        | 191.92529 | 188.75923    | 188.75923    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0461                                 | Achieved          |                    | 100                                   |
| 1382.211     | 1217.211        | 191.98022 | 188.62312    | 188.62312    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04534                                | Achieved          |                    | 100                                   |
| 1372.211     | 1207.211        | 192.00854 | 188.50753    | 188.50753    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.04311                                | Achieved          |                    | 100                                   |
| 1362.211     | 1197.211        | 191.93864 | 188.42581    | 188.42581    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03837                                | Achieved          |                    | 100                                   |
| 1352.211     | 1187.211        | 191.80456 | 188.36041    | 188.36041    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.03326                                | Achieved          |                    | 100                                   |
| 1342.211     | 1177.211        | 191.5994  | 188.29823    | 188.29823    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02783                                | Achieved          |                    | 100                                   |
| 1332.211     | 1167.211        | 191.38148 | 188.22412    | 188.22412    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.02428                                | Achieved          |                    | 100                                   |
| 1322.211     | 1157.211        | 191.11438 | 188.09103    | 188.09103    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.0239                                 | Achieved          |                    | 100                                   |
| 1312.211     | 1147.211        | 190.82794 | 187.83896    | 187.83896    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.01136                                | Achieved          |                    | 100                                   |
| 1302.211     | 1137.211        | 190.54996 | 187.46488    | 187.46488    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00766                                | Achieved          |                    | 100                                   |
| 1292.211     | 1127.211        | 190.28241 | 187.06499    | 187.06499    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00768                                | Achieved          |                    | 100                                   |
| 1282.211     | 1117.211        | 190.03119 | 186.6726     | 186.6726     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165.00242                                | Achieved          |                    | 100                                   |
| 1272.211     | 1107.211        | 189.80642 | 186.32626    | 186.32626    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99833                                | Achieved          |                    | 100                                   |
| 1262.211     | 1097.211        | 189.61987 | 186.04252    | 186.04252    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9983                                 | Achieved          |                    | 100                                   |
| 1252.211     | 1087.211        | 189.46074 | 185.80999    | 185.80999    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99827                                | Achieved          |                    | 100                                   |
| 1242.211     | 1077.211        | 189.28616 | 185.56177    | 185.56177    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99824                                | Achieved          |                    | 100                                   |
| 1232.211     | 1067.211        | 189.13174 | 185.38399    | 185.38399    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99674                                | Achieved          |                    | 100                                   |
| 1222.211     | 1057.211        | 188.98926 | 185.22294    | 185.22294    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99637                                | Achieved          |                    | 100                                   |
| 1212.211     | 1047.211        | 188.86413 | 185.30348    | 185.30348    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99061                                | Achieved          |                    | 100                                   |
| 1202.211     | 1037.211        | 188.7515  | 185.49651    | 185.49651    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98983                                | Achieved          |                    | 100                                   |
| 1192.211     | 1027.211        | 188.69194 | 185.35046    | 185.35046    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98983                                | Achieved          |                    | 100                                   |
| 1182.211     | 1017.211        | 188.62051 | 185.63335    | 185.63335    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98989                                | Achieved          |                    | 100                                   |
| 1172.211     | 1007.211        | 188.56743 | 185.73499    | 185.73499    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.98994                                | Achieved          |                    | 100                                   |
| 1162.211     | 997.211         | 188.46441 | 185.8319     | 185.8319     | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99002                                | Achieved          |                    | 100                                   |
| 1152.211     | 987.211         | 188.38277 | 185.90801    | 185.90801    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99012                                | Achieved          |                    | 100                                   |
| 1142.211     | 977.211         | 187.96404 | 185.92339    | 185.92339    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99025                                | Achieved          |                    | 100                                   |
| 1132.211     | 967.211         | 187.56419 | 185.88303    | 185.88303    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9904                                 | Achieved          |                    | 100                                   |
| 1122.211     | 957.211         | 187.16669 | 185.84899    | 185.84899    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.99212                                | Achieved          |                    | 100                                   |
| 1112.211     | 947.211         | 186.79215 | 185.81834    | 185.81834    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 164.9966                                 | Achieved          |                    | 100                                   |
| 1102.211     | 937.211         | 186.48021 | 185.78824    | 185.78824    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                   |
| 1092.211     | 927.211         | 186.21833 | 185.76002    | 185.76002    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                   |
| 1082.211     | 917.211         | 186.02071 | 185.73224    | 185.73224    | 100          | 0.00%               | 0.00%         | 165                     | 141                    | 165                     | 165                                      | Achieved          |                    | 100                                   |

Released under R



# Crash History Data

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Appendix D

## Frankford Main Road (A1044 - West Tamar Highway to Birralee Main Road) and Birralee Main Road (A1701)

| ID       | VCRN | DESCRIPTION  | CRASH DATE  | CRASH TIME | SEVERITY             | SURFACE | LIGHT COND                      | CENTRELINE                          | SPEED ZONE | UNIT NO | UNIT TYPE     | UNIT NO | UNIT TYPE     | LATITUDE   | LONGITUDE  | ROAD                |
|----------|------|--|-------------|------------|----------------------|---------|---------------------------------|-------------------------------------|------------|---------|---------------|---------|---------------|------------|------------|---------------------|
| 30054648 |      | 171 - Left off carriageway into object or parked vehicle | 02-Jan-2011 | 12:05      | Minor                | Sealed  | Daylight                        | Double - one broken, one continuous | 100        | 1       | Light Vehicle |         |               | -41.317432 | 146.924707 | Frankford Main Road |
| 30054620 |      | 171 - Left off carriageway into object or parked vehicle | 02-Feb-2011 | 12:50      | Property Damage Only | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.365435 | 146.844140 | Frankford Main Road |
| 30054658 |      | 170 - Off carriageway to left                            | 22-Feb-2011 | 21:00      | Property Damage Only | Sealed  | Darkness (without street light) | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.421099 | 146.821961 | Birralee Main Road  |
| 30082634 |      | 181 - Off right bend into object/parked vehicle          | 26-Feb-2011 | 18:10      | Property Damage Only | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.493864 | 146.816806 | Birralee Main Road  |
| 30084982 |      | 113 - Right near   | 21-Mar-2011 | 15:20      | Minor                | Sealed  | Daylight                        | Single Continuous                   | 060        | 1       | Light Vehicle | 2       | Light Vehicle | -41.512066 | 146.827492 | Birralee Main Road  |
| 30084941 |      | 180 - Off carriageway right bend                         | 01-Apr-2011 | 20:06      | Property Damage Only | Sealed  | Darkness (with street light)    | Single Continuous                   | 100        | 1       | Light Vehicle |         |               | -41.367773 | 146.831329 | Frankford Main Road |
| 30111074 |      | 167 - Animal (not ridden)                                | 17-Apr-2011 | 19:30      | Property Damage Only | Sealed  | Darkness (without street light) | Single broken                       | 100        | 1       | Motorcycle    |         |               | -41.358790 | 146.853049 | Frankford Main Road |
| 30082611 |      | 120 - Wrong side/other head on (not overtaking)          | 14-Jun-2011 | 07:30      | Property Damage Only | Sealed  | Daylight                        | Single Continuous                   | 100        | 1       | Light Vehicle | 2       | Light Vehicle | -41.493807 | 146.816821 | Birralee Main Road  |
| 30082535 |      | 181 - Off right bend into object/parked vehicle          | 20-Jun-2011 | 07:30      | Minor                | Sealed  | Daylight                        | None                                | 060        | 1       | Light Vehicle |         |               | -41.510342 | 146.825961 | Birralee Main Road  |
| 30077999 |      | 170 - Off carriageway to left                            | 15-Jul-2011 | 16:30      | Property Damage Only | Sealed  | Daylight                        | None                                | 100        | 1       | Light Vehicle |         |               | -41.321443 | 146.909965 | Frankford Main Road |
| 30104409 |      | 152 - Pulling out  | 26-Aug-2011 | 11:30      | Minor                | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle | 2       | Heavy Vehicle | -41.397493 | 146.829500 | Birralee Main Road  |
| 30054694 |      | 183 - Off left bend into object/parked vehicle           | 15-Sep-2011 | 15:00      | Minor                | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.368456 | 146.834675 | Frankford Main Road |
| 30054696 |      | 183 - Off left bend into object/parked vehicle           | 20-Sep-2011 | 16:37      | Property Damage Only | Sealed  | Daylight                        | Double - one broken, one continuous | 100        | 1       | Light Vehicle |         |               | -41.325071 | 146.894366 | Frankford Main Road |
| 30054953 |      | 167 - Animal (not ridden)                                | 27-Oct-2011 | 21:35      | Property Damage Only | Sealed  | Darkness (without street light) | Double - one broken, one continuous | 100        | 1       | Light Vehicle |         |               | -41.316506 | 146.926792 | Frankford Main Road |
| 30082736 |      | 171 - Left off carriageway into object or parked vehicle | 30-Nov-2011 | 15:40      | Minor                | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.419327 | 146.821356 | Birralee Main Road  |
| 30054966 |      | 121 - Right through                                      | 03-Jan-2012 | 13:35      | Minor                | Sealed  | Daylight                        | Single broken                       | 050        | 1       | Light Vehicle | 2       | Light Vehicle | -41.298416 | 146.951075 | Frankford Main Road |
| 30083350 |      | 120 - Wrong side/other head on (not overtaking)          | 14-Feb-2012 | 07:22      | Minor                | Sealed  | Daylight                        | Double - one broken, one continuous | 100        | 1       | Light Vehicle | 2       | Light Vehicle | -41.338098 | 146.872338 | Frankford Main Road |
| 30054981 |      | 180 - Off carriageway right bend                         | 21-Apr-2012 | 13:10      | Minor                | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.329322 | 146.878301 | Frankford Main Road |
| 30078757 |      | 181 - Off right bend into object/parked vehicle          | 22-May-2012 | 18:45      | Minor                | Sealed  | Darkness (without street light) | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.329554 | 146.877791 | Frankford Main Road |

**Frankford Main Road (A1044 - West Tamar Highway to Birralee Main Road) and Birralee Main Road (A1701)**

| ID       | VCRN     | DESCRIPTION   | CRASH DATE  | CRASH TIME | SEVERITY             | SURFACE | LIGHT COND                      | CENTRELINE                          | SPEED ZONE | UNIT NO | UNIT TYPE     | UNIT NO | UNIT TYPE     | LATITUDE   | LONGITUDE  | ROAD                |
|----------|----------|---|-------------|------------|----------------------|---------|---------------------------------|-------------------------------------|------------|---------|---------------|---------|---------------|------------|------------|---------------------|
| 30078764 |          | 170 - Off carriageway to left                             | 07-Jun-2012 | 17:30      | First Aid            | Sealed  | Darkness (without street light) | Double - one broken, one continuous | 100        | 1       | Light Vehicle |         |               | -41.316339 | 146.927014 | Frankford Main Road |
| 30078539 |          | 167 - Animal (not ridden)                                 | 17-Jun-2012 | 17:25      | Property Damage Only | Sealed  | Darkness (without street light) | Not known                           | 100        | 1       | Light Vehicle |         |               | -41.341984 | 146.869399 | Frankford Main Road |
| 30054989 |          | 181 - Off right bend into object/parked vehicle           | 01-Jul-2012 | 19:20      | Minor                | Sealed  | Darkness (without street light) | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.336763 | 146.873426 | Frankford Main Road |
| 30054997 |          | 183 - Off left bend into object/parked vehicle            | 10-Sep-2012 | 22:30      | Property Damage Only | Sealed  | Darkness (without street light) | Double - one broken, one continuous | 100        | 1       | Light Vehicle |         |               | -41.358120 | 146.853905 | Frankford Main Road |
| 30056219 |          | 167 - Animal (not ridden)                                 | 10-Sep-2012 | 18:30      | Property Damage Only | Sealed  | Darkness (without street light) | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.402042 | 146.829217 | Birralee Main Road  |
| 30058305 |          | 152 - Pulling out   | 25-Oct-2012 | 21:43      | First Aid            | Sealed  | Darkness (without street light) | Single broken                       | 100        | 1       | Light Vehicle | 2       | Light Vehicle | -41.368547 | 146.831443 | Birralee Main Road  |
| 30058318 |          | 180 - Off carriageway right bend                          | 08-Mar-2013 | 09:15      | Property Damage Only | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.389419 | 146.833388 | Birralee Main Road  |
| 7637     | 13000106 | 174 - Out of control on carriageway                       | 07-Apr-2013 | 14:34      | Minor                | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Motorcycle    |         |               | -41.376207 | 146.834046 | Birralee Main Road  |
| 16436    | 13000348 | 116 - Left near   | 19-Apr-2013 | 06:09      | Minor                | Sealed  | Darkness (without street light) | Single broken                       | 100        | 1       | Light Vehicle | 2       | Light Vehicle | -41.337907 | 146.872523 | Frankford Main Road |
| 17908    | 13000613 | 173 - Right off carriageway into object or parked vehicle | 07-May-2013 | 04:39      | Minor                | Sealed  | Darkness (without street light) | None                                | 100        | 1       | Light Vehicle |         |               | -41.508339 | 146.824485 | Birralee Main Road  |
| 27080    | 13001024 | 181 - Off right bend into object/parked vehicle           | 30-May-2013 | 06:15      | Property Damage Only | Sealed  | Darkness (without street light) | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.329280 | 146.878394 | Frankford Main Road |
| 79480    | 13001526 | 171 - Left off carriageway into object or parked vehicle  | 29-Jun-2013 | 20:20      | Minor                | Sealed  | Darkness (without street light) | None                                | 100        | 1       | Light Vehicle |         |               | -41.471473 | 146.841947 | Birralee Main Road  |
| 85582    | 13001665 | 180 - Off carriageway right bend                          | 06-Jul-2013 | 09:55      | Property Damage Only | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.481114 | 146.831326 | Birralee Main Road  |
| 95865    | 13001852 | 131 - Vehicles in same lane/ left rear                    | 15-Jul-2013 | 10:35      | Property Damage Only | Sealed  | Daylight                        | Double - one broken, one continuous | 100        | 1       | Light Vehicle | 2       | Heavy Vehicle | -41.331085 | 146.876507 | Frankford Main Road |
| 105066   | 13002209 | 170 - Off carriageway to left                             | 30-Jul-2013 | 10:00      | Property Damage Only | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.348721 | 146.863325 | Frankford Main Road |
| 102869   | 13002116 | 118 - Two left turn                                       | 01-Aug-2013 | 11:13      | Property Damage Only | Sealed  | Daylight                        | Single Continuous                   | 100        | 1       | Light Vehicle | 2       | Light Vehicle | -41.453362 | 146.833483 | Birralee Main Road  |
| 106353   | 13002275 | 117 - Left/right far                                      | 10-Aug-2013 | 08:10      | Property Damage Only | Sealed  | Daylight                        | Single broken                       | 050        | 1       | Light Vehicle | 2       | Light Vehicle | -41.298416 | 146.951075 | Frankford Main Road |

**Frankford Main Road (A1044 - West Tamar Highway to Birralee Main Road) and Birralee Main Road (A1701)**

| ID     | VCRN     | DESCRIPTION  | CRASH DATE  | CRASH TIME | SEVERITY             | SURFACE | LIGHT COND                      | CENTRELINE                          | SPEED ZONE | UNIT NO | UNIT TYPE     | UNIT NO | UNIT TYPE     | LATITUDE   | LONGITUDE  | ROAD                |
|--------|----------|--|-------------|------------|----------------------|---------|---------------------------------|-------------------------------------|------------|---------|---------------|---------|---------------|------------|------------|---------------------|
| 153161 | 13003904 | 131 - Vehicles in same lane/ left rear                           | 16-Nov-2013 | 10:01      | Serious              | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Bicycle       | 2       | Bicycle       | -41.351185 | 146.860784 | Frankford Main Road |
| 153248 | 13003908 | 130 - Vehicles in same lane/ rear end                            | 17-Nov-2013 | 10:30      | Property Damage Only | Sealed  | Daylight                        | Double - one broken, one continuous | 080        | 1       | Light Vehicle | 2       | Light Vehicle | -41.303718 | 146.938433 | Frankford Main Road |
| 163453 | 13004176 | 181 - Off right bend into object/parked vehicle                  | 02-Dec-2013 | 16:00      | Minor                | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.358095 | 146.853928 | Frankford Main Road |
| 170844 | 13004371 | 173 - Right off carriageway into object or parked vehicle        | 08-Dec-2013 | 10:05      | Property Damage Only | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.361666 | 146.849613 | Frankford Main Road |
| 169954 | 13004347 | 189 - Other curve  | 10-Dec-2013 | 12:00      | Property Damage Only | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.329413 | 146.878101 | Frankford Main Road |
| 171783 | 13004393 | 171 - Left off carriageway into object or parked vehicle         | 13-Dec-2013 | 21:21      | First Aid            | Sealed  | Darkness (without street light) | Double continuous                   | 080        | 1       | Motorcycle    |         |               | -41.480308 | 146.832764 | Birralee Main Road  |
| 211495 | 14000683 | 172 - Off carriageway to right                                   | 07-Feb-2014 | 07:54      | Serious              | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.320625 | 146.914815 | Frankford Main Road |
| 239792 | 14001427 | 129 - Other opposing   | 19-Mar-2014 | 16:05      | Property Damage Only | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Heavy Vehicle | 2       | Light Vehicle | -41.318547 | 146.921626 | Frankford Main Road |
| 260578 | 14001864 | 189 - Other curve  | 08-Apr-2014 | 10:11      | First Aid            | Sealed  | Daylight                        | Single Continuous                   | 100        | 1       | Light Vehicle |         |               | -41.480992 | 146.831469 | Birralee Main Road  |
| 286380 | 14002301 | 179 - Other straight   | 02-May-2014 | 22:35      | Property Damage Only | Sealed  | Darkness (without street light) | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.495141 | 146.817356 | Birralee Main Road  |
| 291559 | 14002415 | 181 - Off right bend into object/parked vehicle                  | 10-May-2014 | 13:40      | Property Damage Only | Sealed  | Daylight                        | Double - one broken, one continuous | 100        | 1       | Light Vehicle |         |               | -41.471289 | 146.842104 | Birralee Main Road  |
| 301500 | 14002687 | 111 - Right far  | 23-May-2014 | 09:30      | Property Damage Only | Sealed  | Daylight                        | Single Continuous                   | 060        | 1       | Light Vehicle | 2       | Heavy Vehicle | -41.298416 | 146.951075 | Frankford Main Road |
| 348186 | 14003737 | 179 - Other straight   | 22-Jul-2014 | 04:30      | Property Damage Only | Sealed  | Darkness (without street light) | Single broken                       | Not known  | 1       | Light Vehicle |         |               | -41.328672 | 146.885823 | Frankford Main Road |
| 356585 | 14003918 | 189 - Other curve  | 01-Aug-2014 | 18:46      | Property Damage Only | Sealed  | Darkness (without street light) | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.344044 | 146.866577 | Frankford Main Road |
| 403391 | 14004889 | 174 - Out of control on carriageway                              | 27-Sep-2014 | 09:20      | Minor                | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Bicycle       |         |               | -41.331035 | 146.876538 | Frankford Main Road |
| 436401 | 14005566 | 139 - Other same direction (including vehicle rolling backwards) | 10-Nov-2014 | 07:05      | Property Damage Only | Sealed  | Daylight                        | Double - one broken, one continuous | 100        | 1       | Light Vehicle | 2       | Light Vehicle | -41.454207 | 146.833797 | Birralee Main Road  |
| 466453 | 14006262 | 182 - Off carriageway left bend                                  | 16-Dec-2014 | 18:00      | Minor                | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.467368 | 146.841214 | Birralee Main Road  |
| 494738 | 15000230 | 120 - Wrong side/other head on (not overtaking)                  | 14-Jan-2015 | 06:30      | Fatal                | Sealed  | Dawn / Dusk                     | Double continuous                   | 100        | 1       | Light Vehicle | 2       | Heavy Vehicle | -41.329287 | 146.878378 | Frankford Main Road |
| 511068 | 15000538 | 189 - Other curve  | 29-Jan-2015 | 16:25      | Minor                | Sealed  | Daylight                        | Double - one broken, one continuous | 100        | 1       | Heavy Vehicle |         |               | -41.383239 | 146.833290 | Birralee Main Road  |

**Frankford Main Road (A1044 - West Tamar Highway to Birralee Main Road) and Birralee Main Road (A1701)**

| ID      | VCRN     | DESCRIPTION                                     | CRASH DATE  | CRASH TIME | SEVERITY             | SURFACE  | LIGHT COND                      | CENTRELINE                          | SPEED ZONE | UNIT NO | UNIT TYPE     | UNIT NO | UNIT TYPE     | LATITUDE   | LONGITUDE  | ROAD                |
|---------|----------|---|-------------|------------|----------------------|----------|---------------------------------|-------------------------------------|------------|---------|---------------|---------|---------------|------------|------------|---------------------|
| 513984  | 15000579 | 167 - Animal (not ridden)                       | 01-Feb-2015 | 21:09      | Property Damage Only | Sealed   | Darkness (without street light) | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.476706 | 146.836691 | Birralee Main Road  |
| 526186  | 15000776 | 132 - Vehicles in same lane/ right rear         | 11-Feb-2015 | 10:29      | Minor                | Sealed   | Daylight                        | Double - one broken, one continuous | 060        | 1       | Bicycle       | 2       | Light Vehicle | -41.300046 | 146.946732 | Frankford Main Road |
| 531929  | 15001069 | 179 - Other straight                            | 24-Feb-2015 | 19:33      | Property Damage Only | Sealed   | Dawn / Dusk                     | Single Continuous                   | 100        | 1       | Light Vehicle |         |               | -41.357851 | 146.854149 | Frankford Main Road |
| 554441  | 15002206 | 179 - Other straight                            | 16-Apr-2015 | 15:30      | Minor                | Sealed   | Daylight                        | Not known                           | 100        | 1       | Light Vehicle |         |               | -41.343651 | 146.867184 | Frankford Main Road |
| 564082  | 15002499 | 167 - Animal (not ridden)                       | 10-May-2015 | 02:15      | Property Damage Only | Unsealed | Darkness (without street light) | None                                | 060        | 1       | Light Vehicle |         |               | -41.458482 | 146.835404 | Birralee Main Road  |
| 566211  | 15002574 | 181 - Off right bend into object/parked vehicle | 13-May-2015 | 16:20      | Minor                | Sealed   | Daylight                        | Double continuous                   | 100        | 1       | Heavy Vehicle |         |               | -41.493834 | 146.816813 | Birralee Main Road  |
| 581452  | 15002814 | 113 - Right near                                | 27-May-2015 | 16:14      | Property Damage Only | Sealed   | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle | 2       | Light Vehicle | -41.339466 | 146.871125 | Frankford Main Road |
| 700958  | 15003195 | 189 - Other curve                               | 15-Jun-2015 | 22:00      | Property Damage Only | Sealed   | Darkness (without street light) | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.310525 | 146.933749 | Frankford Main Road |
| 822765  | 15003790 | 183 - Off left bend into object/parked vehicle  | 19-Jul-2015 | 11:00      | Property Damage Only | Sealed   | Daylight                        | Single broken                       | 060        | 1       | Light Vehicle |         |               | -41.298388 | 146.951101 | Frankford Main Road |
| 872045  | 15003963 | 179 - Other straight                            | 29-Jul-2015 | 14:19      | Minor                | Sealed   | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.403625 | 146.829241 | Birralee Main Road  |
| 899375  | 15004214 | 167 - Animal (not ridden)                       | 10-Aug-2015 | 19:15      | Property Damage Only | Sealed   | Darkness (without street light) | None                                | 100        | 1       | Light Vehicle |         |               | -41.322582 | 146.903143 | Frankford Main Road |
| 938441  | 15004606 | 167 - Animal (not ridden)                       | 30-Aug-2015 | 20:00      | Property Damage Only | Sealed   | Darkness (without street light) | Single Continuous                   | 100        | 1       | Light Vehicle |         |               | -41.328964 | 146.884877 | Frankford Main Road |
| 1016622 | 15005230 | 120 - Wrong side/other head on (not overtaking) | 14-Oct-2015 | 07:14      | Minor                | Sealed   | Daylight                        | None                                | 080        | 1       | Light Vehicle | 2       | Light Vehicle | -41.378583 | 146.834765 | Birralee Main Road  |
| 1050441 | 15005466 | 184 - Out of control on carriageway             | 24-Oct-2015 | 12:00      | Minor                | Sealed   | Daylight                        | Single broken                       | 100        | 1       | Motorcycle    |         |               | -41.481230 | 146.831201 | Birralee Main Road  |
| 1056569 | 15005503 | 189 - Other curve                               | 31-Oct-2015 | 18:10      | Property Damage Only | Sealed   | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.495486 | 146.817484 | Birralee Main Road  |
| 1094636 | 15005731 | 110 - Cross traffic                             | 12-Nov-2015 | 13:20      | Minor                | Sealed   | Daylight                        | Double broken                       | 100        | 1       | Light Vehicle | 2       | Heavy Vehicle | -41.315274 | 146.928324 | Frankford Main Road |
| 1141839 | 15006023 | 140 - U turn                                    | 26-Nov-2015 | 17:46      | Fatal                | Sealed   | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle | 2       | Heavy Vehicle | -41.441239 | 146.828965 | Birralee Main Road  |
| 1218825 | 15006442 | 130 - Vehicles in same lane/ rear end           | 18-Dec-2015 | 14:11      | Property Damage Only | Sealed   | Daylight                        | Double continuous                   | 060        | 1       | Light Vehicle | 2       | Light Vehicle | -41.301668 | 146.942250 | Frankford Main Road |
| 1535580 | 16001507 | 167 - Animal (not ridden)                       | 20-Mar-2016 | 22:00      | Property Damage Only | Sealed   | Darkness (without street light) | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.320999 | 146.912475 | Frankford Main Road |

**Frankford Main Road (A1044 - West Tamar Highway to Birralee Main Road) and Birralee Main Road (A1701)**

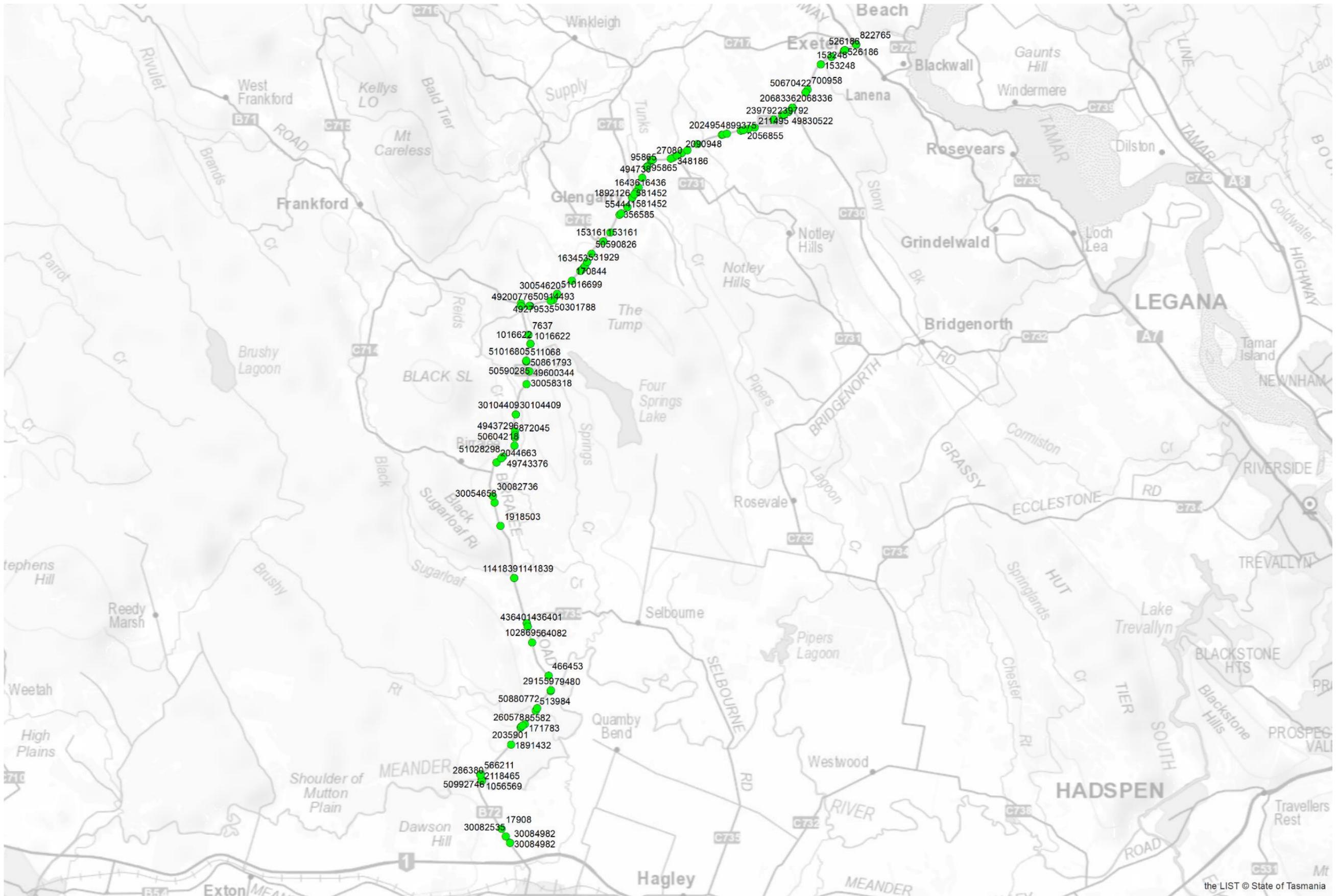
| ID       | VCRN     | DESCRIPTION   | CRASH DATE  | CRASH TIME | SEVERITY             | SURFACE | LIGHT COND                      | CENTRELINE                          | SPEED ZONE | UNIT NO | UNIT TYPE     | UNIT NO | UNIT TYPE     | LATITUDE   | LONGITUDE  | ROAD                |
|----------|----------|---|-------------|------------|----------------------|---------|---------------------------------|-------------------------------------|------------|---------|---------------|---------|---------------|------------|------------|---------------------|
| 1891432  | 16004181 | 166 - Struck object on carriageway                        | 14-Aug-2016 | 18:35      | Property Damage Only | Sealed  | Darkness (without street light) | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.485809 | 146.827856 | Birralee Main Road  |
| 1892126  | 16004211 | 173 - Right off carriageway into object or parked vehicle | 16-Aug-2016 | 00:50      | Property Damage Only | Sealed  | Darkness (without street light) | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.338532 | 146.871917 | Frankford Main Road |
| 1906483  | 16004765 | 171 - Left off carriageway into object or parked vehicle  | 18-Sep-2016 | 15:30      | First Aid            | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.328177 | 146.887112 | Frankford Main Road |
| 1918503  | 16005058 | 180 - Off carriageway right bend                          | 03-Oct-2016 | 15:30      | Property Damage Only | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.427327 | 146.824027 | Birralee Main Road  |
| 1979752  | 16006351 | 170 - Off carriageway to left                             | 10-Dec-2016 | 09:47      | Property Damage Only | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.317188 | 146.925297 | Frankford Main Road |
| 2024954  | 17001650 | 172 - Off carriageway to right                            | 26-Mar-2017 | 07:25      | Minor                | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.322518 | 146.903511 | Frankford Main Road |
| 2031573  | 17001963 | 152 - Pulling out   | 07-Apr-2017 | 15:15      | Property Damage Only | Sealed  | Daylight                        | Double - one broken, one continuous | 100        | 1       | Heavy Vehicle | 2       | Light Vehicle | -41.356651 | 146.854985 | Frankford Main Road |
| 2035889  | 17002169 | 189 - Other curve   | 22-Apr-2017 | 15:53      | Property Damage Only | Sealed  | Daylight                        | Single Continuous                   | 100        | 1       | Light Vehicle |         |               | -41.480995 | 146.831464 | Birralee Main Road  |
| 2035901  | 17002170 | 184 - Out of control on carriageway                       | 22-Apr-2017 | 16:30      | First Aid            | Sealed  | Daylight                        | Single Continuous                   | 100        | 1       | Light Vehicle |         |               | -41.480718 | 146.831913 | Birralee Main Road  |
| 2044663  | 17002588 | 189 - Other curve   | 13-May-2017 | 14:00      | Property Damage Only | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.410333 | 146.822623 | Birralee Main Road  |
| 2056855  | 17003167 | 132 - Vehicles in same lane/ right rear                   | 16-Jun-2017 | 09:04      | Minor                | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle | 2       | Light Vehicle | -41.321288 | 146.910787 | Frankford Main Road |
| 2068336  | 17003676 | 159 - Other overtaking                                    | 11-Jul-2017 | 18:06      | First Aid            | Sealed  | Darkness (without street light) | Single broken                       | 100        | 1       | Heavy Vehicle | 2       | Light Vehicle | -41.315274 | 146.928324 | Frankford Main Road |
| 2090948  | 17004744 | 173 - Right off carriageway into object or parked vehicle | 09-Sep-2017 | 15:30      | Minor                | Sealed  | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.327524 | 146.888792 | Frankford Main Road |
| 2096805  | 17005021 | 170 - Off carriageway to left                             | 25-Sep-2017 | 17:35      | Property Damage Only | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.331263 | 146.876433 | Frankford Main Road |
| 2103271  | 17005324 | 152 - Pulling out   | 11-Oct-2017 | 11:20      | First Aid            | Sealed  | Daylight                        | Double - one broken, one continuous | 100        | 1       | Heavy Vehicle | 2       | Light Vehicle | -41.328177 | 146.887112 | Frankford Main Road |
| 2118465  | 17006056 | 189 - Other curve   | 20-Nov-2017 | 19:20      | Property Damage Only | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.493703 | 146.817016 | Birralee Main Road  |
| 48784647 | 17006318 | 167 - Animal (not ridden)                                 | 02-Dec-2017 | 21:05      | Property Damage Only | Sealed  | Darkness (with street light)    | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.334128 | 146.874725 | Frankford Main Road |
| 49125259 | 18000958 | 171 - Left off carriageway into object or parked vehicle  | 16-Feb-2018 | 17:15      | Minor                | Sealed  | Daylight                        | Double - one broken, one continuous | 100        | 1       | Light Vehicle |         |               | -41.326708 | 146.890757 | Frankford Main Road |
| 49200776 | 18002118 | 189 - Other curve   | 14-Apr-2018 | 08:50      | Property Damage Only | Sealed  | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.368444 | 146.834445 | Frankford Main Road |

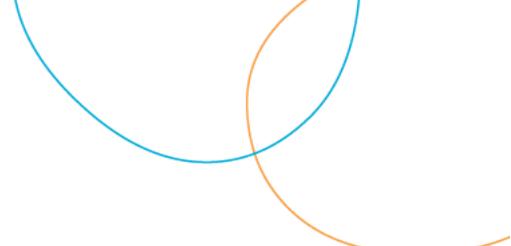
**Frankford Main Road (A1044 - West Tamar Highway to Birralee Main Road) and Birralee Main Road (A1701)**

| ID       | VCRN     | DESCRIPTION   | CRASH DATE  | CRASH TIME | SEVERITY             | SURFACE  | LIGHT COND                      | CENTRELINE                          | SPEED ZONE | UNIT NO | UNIT TYPE     | UNIT NO | UNIT TYPE     | LATITUDE   | LONGITUDE  | ROAD                |
|----------|----------|---|-------------|------------|----------------------|----------|---------------------------------|-------------------------------------|------------|---------|---------------|---------|---------------|------------|------------|---------------------|
| 49279535 | 18003003 | 189 - Other curve   | 29-May-2018 | 08:30      | Property Damage Only | Sealed   | Daylight                        | Single Continuous                   | 100        | 1       | Light Vehicle |         |               | -41.366826 | 146.842883 | Frankford Main Road |
| 49437296 | 18004206 | 179 - Other straight                                      | 27-Jul-2018 | 19:45      | Property Damage Only | Sealed   | Darkness (without street light) | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.403042 | 146.829261 | Birralee Main Road  |
| 49600344 | 18005181 | 181 - Off right bend into object/parked vehicle           | 16-Sep-2018 | 13:20      | Serious              | Sealed   | Daylight                        | Double continuous                   | 100        | 1       | Motorcycle    |         |               | -41.385965 | 146.834351 | Birralee Main Road  |
| 49979864 | 19002536 | 179 - Other straight                                      | 12-Nov-2018 | 06:45      | Minor                | Sealed   | Daylight                        | Single Continuous                   | 100        | 1       | Light Vehicle |         |               | -41.322275 | 146.904927 | Frankford Main Road |
| 49717192 | 18006745 | 132 - Vehicles in same lane/ right rear                   | 06-Dec-2018 | 17:10      | Serious              | Sealed   | Daylight                        | Double continuous                   | 060        | 1       | Motorcycle    | 2       | Light Vehicle | -41.299908 | 146.947105 | Frankford Main Road |
| 49743376 | 18006952 | 184 - Out of control on carriageway                       | 17-Dec-2018 | 12:20      | Serious              | Sealed   | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.408761 | 146.824908 | Birralee Main Road  |
| 49792885 | 19000132 | 189 - Other curve   | 05-Jan-2019 | 15:00      | Serious              | Sealed   | Daylight                        | Not known                           | 100        | 1       | Motorcycle    |         |               | -41.383256 | 146.833295 | Birralee Main Road  |
| 49770529 | 19000094 | 111 - Right far   | 06-Jan-2019 | 16:35      | Property Damage Only | Sealed   | Daylight                        | Double continuous                   | 050        | 1       | Light Vehicle | 2       | Light Vehicle | -41.298388 | 146.951101 | Frankford Main Road |
| 49830522 | 19000480 | 183 - Off left bend into object/parked vehicle            | 25-Jan-2019 | 10:00      | Minor                | Sealed   | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.316521 | 146.926742 | Frankford Main Road |
| 49971727 | 19002360 | 181 - Off right bend into object/parked vehicle           | 20-Apr-2019 | 00:04      | Fatal                | Sealed   | Darkness (without street light) | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.359066 | 146.852587 | Frankford Main Road |
| 50300533 | 19006113 | 132 - Vehicles in same lane/ right rear                   | 22-Oct-2019 | 09:10      | First Aid            | Sealed   | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle | 2       | Heavy Vehicle | -41.315274 | 146.928324 | Frankford Main Road |
| 50301788 | 19006161 | 189 - Other curve   | 24-Oct-2019 | 08:51      | First Aid            | Sealed   | Daylight                        | Single Continuous                   | 100        | 1       | Light Vehicle |         |               | -41.367120 | 146.841980 | Frankford Main Road |
| 50357493 | 19006891 | 131 - Vehicles in same lane/ left rear                    | 27-Nov-2019 | 15:00      | Property Damage Only | Sealed   | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle | 2       | Light Vehicle | -41.315274 | 146.928324 | Frankford Main Road |
| 50590285 | 20001041 | 189 - Other curve   | 20-Feb-2020 | 14:13      | Property Damage Only | Sealed   | Daylight                        | Double continuous                   | 100        | 1       | Heavy Vehicle |         |               | -41.383301 | 146.833294 | Birralee Main Road  |
| 50590826 | 20001075 | 173 - Right off carriageway into object or parked vehicle | 21-Feb-2020 | 13:48      | Property Damage Only | Sealed   | Daylight                        | Single broken                       | 100        | 1       | Light Vehicle |         |               | -41.354451 | 146.856580 | Frankford Main Road |
| 50604218 | 20001515 | 189 - Other curve   | 09-Mar-2020 | 06:52      | Serious              | Sealed   | Daylight                        | Double - one broken, one continuous | 100        | 1       | Light Vehicle |         |               | -41.405855 | 146.829085 | Birralee Main Road  |
| 50657796 | 20002397 | 130 - Vehicles in same lane/ rear end                     | 15-May-2020 | 12:17      | Property Damage Only | Sealed   | Daylight                        | Single broken                       | 100        | 1       | Heavy Vehicle | 2       | Heavy Vehicle | -41.317186 | 146.925303 | Frankford Main Road |
| 50670422 | 20002696 | 152 - Pulling out   | 03-Jun-2020 | 14:00      | Minor                | Sealed   | Daylight                        | Double - one broken, one continuous | 100        | 1       | Light Vehicle | 2       | Heavy Vehicle | -41.311245 | 146.932995 | Frankford Main Road |
| 50760254 | 20003887 | 113 - Right near  | 11-Aug-2020 | 07:00      | Property Damage Only | Sealed   | Dawn / Dusk                     | Double continuous                   | 060        | 1       | Light Vehicle | 2       | Heavy Vehicle | -41.298388 | 146.951101 | Frankford Main Road |
| 50861793 | 20005603 | 183 - Off left bend into object/parked vehicle            | 15-Nov-2020 | 14:15      | Minor                | Sealed   | Daylight                        | Single broken                       | 100        | 1       | Motorcycle    |         |               | -41.383250 | 146.833296 | Birralee Main Road  |
| 50880772 | 20005917 | n/a   | 15-Nov-2020 | 13:45      | Minor                | Unsealed | Daylight                        | None                                | 100        | 1       | Motorcycle    |         |               | -41.476051 | 146.837118 | Birralee Main Road  |
| 50914493 | 20006428 | 189 - Other curve   | 22-Dec-2020 | 06:26      | Minor                | Sealed   | Daylight                        | Double continuous                   | 100        | 1       | Light Vehicle |         |               | -41.368438 | 146.834345 | Frankford Main Road |

**Frankford Main Road (A1044 - West Tamar Highway to Birralee Main Road) and Birralee Main Road (A1701)**

| ID       | VCRN     | DESCRIPTION                                    | CRASH DATE  | CRASH TIME | SEVERITY             | SURFACE | LIGHT COND                      | CENTRELINE        | SPEED ZONE | UNIT NO | UNIT TYPE     | UNIT NO | UNIT TYPE | LATITUDE   | LONGITUDE  | ROAD                |
|----------|----------|--|-------------|------------|----------------------|---------|---------------------------------|-------------------|------------|---------|---------------|---------|-----------|------------|------------|---------------------|
| 50992746 | 21001374 | 183 - Off left bend into object/parked vehicle | 01-Mar-2021 | 15:44      | Property Damage Only | Sealed  | Daylight                        | Single Continuous | 100        | 1       | Light Vehicle |         |           | -41.493899 | 146.816905 | Birralee Main Road  |
| 51016699 | 21001890 | n/a  | 24-Mar-2021 | 16:48      | Property Damage Only | Sealed  | Daylight                        | Double continuous | 100        | 1       | Light Vehicle |         |           | -41.365173 | 146.844294 | Frankford Main Road |
| 51016805 | 21001897 | n/a  | 24-Mar-2021 | 03:30      | Property Damage Only | Sealed  | Darkness (without street light) | Double continuous | 100        | 1       | Other         |         |           | -41.383116 | 146.833253 | Birralee Main Road  |
| 51028298 | 21002283 | n/a  | 10-Apr-2021 | 21:46      | Minor                | Sealed  | Darkness (without street light) | Double continuous | 100        | 1       | Light Vehicle |         |           | -41.409234 | 146.824370 | Birralee Main Road  |





# Engineer's Cost Estimate Breakdowns

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Appendix E

Note for the parts below, Part 1 incorporates pavement rehabilitation and service relocation works, and Part 8 covers accesses. The parts are summarised as per the standard Department of State Growth bill of quantities template.

Table 18: Frankford Main Road – Section 1: Link 05 CH 0.97 to CH 2.82

| Part | Item                 | Amount                            |                                   |
|------|----------------------|-----------------------------------|-----------------------------------|
|      |                      | Excluding Pavement Rehabilitation | Including Pavement Rehabilitation |
| 1    | Project Specific     | \$ -                              | \$ 103,000                        |
| 2    | Earthworks           | \$ 237,000                        | \$ 237,000                        |
| 3    | Drainage             | \$ 261,000                        | \$ 261,000                        |
| 4    | Pavement             | \$ 390,000                        | \$ 390,000                        |
| 5    | Bituminous Surfacing | \$ 118,000                        | \$ 118,000                        |
| 6    | Traffic Facilities   | \$ 175,000                        | \$ 175,000                        |
| 7    | Landscaping          | \$ 7,000                          | \$ 7,000                          |
| 8    | Miscellaneous        | \$ 190,000                        | \$ 190,000                        |
| 9    | Precast Units        | \$ -                              | \$ -                              |
|      | <b>Total</b>         | <b>\$ 1,378,000</b>               | <b>\$ 1,481,000</b>               |

Table 19: Frankford Main Road – Section 2: Link 05 CH 2.82 to CH 5.12

| Part | Item                 | Amount                            |                                   |
|------|----------------------|-----------------------------------|-----------------------------------|
|      |                      | Excluding Pavement Rehabilitation | Including Pavement Rehabilitation |
| 1    | Project Specific     | \$ 20,000                         | \$ 129,000                        |
| 2    | Earthworks           | \$ 318,000                        | \$ 318,000                        |
| 3    | Drainage             | \$ 356,000                        | \$ 356,000                        |
| 4    | Pavement             | \$ 500,000                        | \$ 500,000                        |
| 5    | Bituminous Surfacing | \$ 148,000                        | \$ 148,000                        |
| 6    | Traffic Facilities   | \$ 300,000                        | \$ 300,000                        |
| 7    | Landscaping          | \$ 16,000                         | \$ 16,000                         |
| 8    | Miscellaneous        | \$ 150,000                        | \$ 150,000                        |
| 9    | Precast Units        | \$ -                              | \$ -                              |
|      | <b>Total</b>         | <b>\$ 1,806,000</b>               | <b>\$ 1,915,000</b>               |

Table 20: Frankford Main Road – Section 3: Link 05 CH 5.12 to CH 6.1

| Part | Item                 | Amount                            |                                   |
|------|----------------------|-----------------------------------|-----------------------------------|
|      |                      | Excluding Pavement Rehabilitation | Including Pavement Rehabilitation |
| 1    | Project Specific     | \$ 102,000                        | \$ 163,000                        |
| 2    | Earthworks           | \$ 138,000                        | \$ 138,000                        |
| 3    | Drainage             | \$ 132,000                        | \$ 132,000                        |
| 4    | Pavement             | \$ 221,000                        | \$ 221,000                        |
| 5    | Bituminous Surfacing | \$ 62,000                         | \$ 62,000                         |
| 6    | Traffic Facilities   | \$ 82,000                         | \$ 82,000                         |
| 7    | Landscaping          | \$ 6,000                          | \$ 6,000                          |
| 8    | Miscellaneous        | \$ 110,000                        | \$ 110,000                        |
| 9    | Precast Units        | \$ -                              | \$ -                              |
|      | <b>Total</b>         | <b>\$ 852,000</b>                 | <b>\$ 914,000</b>                 |

Table 21: Frankford Main Road – Section 4: Link 05 CH 6.1 to CH 8.06 + Link 21 CH 0.00 to CH 0.38

| Part | Item                 | Amount                            |                                   |
|------|----------------------|-----------------------------------|-----------------------------------|
|      |                      | Excluding Pavement Rehabilitation | Including Pavement Rehabilitation |
| 1    | Project Specific     | \$ 20,000                         | \$ 118,000                        |
| 2    | Earthworks           | \$ 345,000                        | \$ 345,000                        |
| 3    | Drainage             | \$ 302,000                        | \$ 302,000                        |
| 4    | Pavement             | \$ 516,000                        | \$ 516,000                        |
| 5    | Bituminous Surfacing | \$ 154,000                        | \$ 154,000                        |
| 6    | Traffic Facilities   | \$ 209,000                        | \$ 209,000                        |
| 7    | Landscaping          | \$ 17,000                         | \$ 17,000                         |
| 8    | Miscellaneous        | \$ 100,000                        | \$ 100,000                        |
| 9    | Precast Units        | \$ -                              | \$ -                              |
|      | <b>Total</b>         | <b>\$ 1,663,000</b>               | <b>\$ 1,761,000</b>               |

Table 22: Frankford Main Road – Section 5: Link 21 CH 0.38 to CH 5.47

| Part | Item                 | Amount                            |                                   |
|------|----------------------|-----------------------------------|-----------------------------------|
|      |                      | Excluding Pavement Rehabilitation | Including Pavement Rehabilitation |
| 1    | Project Specific     | \$ 110,000                        | \$ 244,000                        |
| 2    | Earthworks           | \$ 745,000                        | \$ 745,000                        |
| 3    | Drainage             | \$ 844,000                        | \$ 844,000                        |
| 4    | Pavement             | \$ 1,115,000                      | \$ 1,115,000                      |
| 5    | Bituminous Surfacing | \$ 332,000                        | \$ 332,000                        |
| 6    | Traffic Facilities   | \$ 453,000                        | \$ 453,000                        |
| 7    | Landscaping          | \$ 35,000                         | \$ 35,000                         |
| 8    | Miscellaneous        | \$ 230,000                        | \$ 230,000                        |
| 9    | Precast Units        | \$ -                              | \$ -                              |
|      | <b>Total</b>         | <b>\$ 3,863,000</b>               | <b>\$ 3,997,000</b>               |

Table 23: Birralee Main Road

| Part | Item                 | Amount                            |                                   |
|------|----------------------|-----------------------------------|-----------------------------------|
|      |                      | Excluding Pavement Rehabilitation | Including Pavement Rehabilitation |
| 1    | Project Specific     | \$ 330,000                        | \$ 1,167,000                      |
| 2    | Earthworks           | \$ 3,381,000                      | \$ 3,381,000                      |
| 3    | Drainage             | \$ 2,979,000                      | \$ 2,979,000                      |
| 4    | Pavement             | \$ 4,223,000                      | \$ 4,223,000                      |
| 5    | Bituminous Surfacing | \$ 1,148,000                      | \$ 1,148,000                      |
| 6    | Traffic Facilities   | \$ 1,232,000                      | \$ 1,232,000                      |
| 7    | Landscaping          | \$ 449,000                        | \$ 449,000                        |
| 8    | Miscellaneous        | \$ 820,000                        | \$ 820,000                        |
| 9    | Precast Units        | \$ -                              | \$ -                              |
|      | <b>Total</b>         | <b>\$ 14,562,000</b>              | <b>\$ 15,399,000</b>              |



## Northern Roads Package Stage 2 Frankford Main Road and Birralelee Main Road Options Analysis – Concept Design

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Devonport



# Project Proposal Report

|                                     |  |
|-------------------------------------|--|
| <i>Project Name</i>                 | Northern Roads Package – Stage 1 – Batman Highway – Development and Delivery |
| <i>Version Number</i>               | 2  |
| <i>Date submitted to the DITCRD</i> | 30 September 2020  |