RTI 22-23-54

The following has been released in relation to a request for information relating to the Tasman Highway lane upgrade.

Document 57

From: [redacted]
To: [redacted] s 36 [redacted] @northbarker.com.au); s 36 [redacted]; [redacted]
Subject: FW: Tasman Highway Upgrade - Airport to Midway Point Causeway [SEC=UNOFFICIAL]
Date: Tuesday, 1 November 2022 7:52:38 PM
Attachments: image002.png
image003.png
image004.png
Out of scope [redacted]
SETS_OrchidOffsetsCalculator_2022-8805_20220916.xlsx

Good morning

Out of scope [redacted] s 36 advises that it "may be simpler to declare the offset area as separate and additional to the RCS area". s 39 [redacted] If you are in agreement, [redacted], we will proceed on that basis. I expect, s [redacted] that this won't change your assessment numbers much, maybe they are a bit higher?

Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

Out of scope [redacted]

Offsets Assessment Guide

For use in determining offsets under the *Environment Protection and Biodiversity Conservation Act 1999*
2 October 2012

This guide relies on Macros being enabled in your browser.

Attachment 1

Matter of National Environmental Significance	
Name	
EPBC Act status	Critically Endangered
Annual probability of extinction Based on IUCN category definitions	**6.8%**

Key to Cell Colours
User input required
Drop-down list
Calculated output
Not applicable to attribute

Impact calculator

Protected matter attributes	Attribute relevant to case?	Description	Quantum of impact		Units	Information source
Ecological communities						
Area of community Clear row	No		Area			
			Quality			
			Total quantum of impact	0.00		
Threatened species habitat						
Area of habitat Clear row	Yes	This is conservative and assumes all directly and indirectly impacted habitat is entirely lost And does not take into account areas for each species overlaps	Area	0.25	Hectares	Based on both direct/indirect impacts from orchid impact assessment and management plan (North Barker 2022)
			Quality	7	Scale 0-10	
			Total quantum of impact	0.18	Adjusted hectares	
Protected matter attributes	**Attribute relevant to case?**	**Description**	**Quantum of impact**		**Units**	**Information source**
Number of features e.g. Nest hollows, habitat trees Clear row	No					
Condition of habitat Change in habitat condition, but no change in extent Clear row	Yes				% Benchmark	
Threatened species						
Birth rate e.g. Change in nest success Clear row	No					
Mortality rate e.g Change in number of road kills per year Clear row	No					
Number of individuals e.g. Individual plants/animals Clear row	No					

Offset calculator

Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon (years)		Start area and quality		Future area and quality without offset		Future area and quality with offset		Raw gain	Confidence in result (%)	Adjusted gain	Net present value (adjusted hectares)	% of impact offset	Minimum (90%) direct offset requirement met?	Cost ($ total)	Information source
Ecological Communities																				
Area of community	No				Risk-related time horizon (max. 20 years)		Start area (hectares)		Risk of loss (%) without offset		Risk of loss (%) with offset									
									Future area without offset (adjusted hectares)	0.0	Future area with offset (adjusted hectares)	0.0								
					Time until ecological benefit		Start quality (scale of 0-10)		Future quality without offset (scale of 0-10)		Future quality with offset (scale of 0-10)									
Threatened species habitat																				
Area of habitat	Yes	0.18	Adjusted hectares	Improvement to existing habitat?	Time over which loss is averted (max. 20 years)	20	Start area (hectares)	1.5	Risk of loss (%) without offset	1%	Risk of loss (%) with offset	0%	0.01	75%	0.01	0.00	0.20	112.99%	Yes	Assumed decline in future quality without active intervention - existing weed issues in habitat may warrant this
									Future area without offset (adjusted hectares)	1.5	Future area with offset (adjusted hectares)	1.5								
					Time until ecological benefit	2	Start quality (scale of 0-10)	8	Future quality without offset (scale of 0-10)	7	Future quality with offset (scale of 0-10)	9	2.00	75%	1.50	1.32				
Protected matter attributes	**Attribute relevant to case?**	**Total quantum of impact**	**Units**	**Proposed offset**	**Time horizon (years)**		**Start value**		**Future value without offset**		**Future value with offset**		**Raw gain**	**Confidence in result (%)**	**Adjusted gain**	**Net present value**	**% of impact offset**	**Minimum (90%) direct offset requirement met?**	**Cost ($ total)**	**Information source**
Number of features e.g. Nest hollows, habitat trees	No																			
Condition of habitat Change in habitat condition, but no change in extent	Yes		% Benchmark										0		0.00	0.00	#DIV/0!	#DIV/0!		
Threatened species																				
Birth rate e.g. Change in nest success	No																			
Mortality rate e.g Change in number of road kills per year	No																			
Number of individuals e.g. Individual plants/animals	No																			

Released under RTI

Summary

Protected matter attributes	Quantum of impact	Net present value of offset	% of impact offset	Direct offset adequate?	Cost ($)		
					Direct offset ($)	Other compensatory measures ($)	Total ($)
Birth rate	0				$0.00		$0.00
Mortality rate	0				$0.00		$0.00
Number of individuals	0				$0.00		$0.00
Number of features	0				$0.00		$0.00
Condition of habitat	0	0.00	#DIV/0!	**#DIV/0!**	$0.00	#DIV/0!	#DIV/0!
Area of habitat	0.175	0.20	112.99%	**Yes**	$0.00	N/A	$0.00
Area of community	0				$0.00		$0.00
					$0.00	**#DIV/0!**	**#DIV/0!**

From: [redacted]
To: [redacted]
Subject: Milford - Taswater Approval
Date: Wednesday, 26 October 2022 5:17:24 PM
Attachments: image001.png

Hi [redacted]

Are you any closer to getting the approval from s 36 for the Taswater works.

Regards

[redacted]

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

Released under RTI

From:
To:
Subject: RE: Any progress on TasNetworks easement pls
Date: Wednesday, 26 October 2022 4:31:18 PM
Attachments: ~WRD0000.jpg

Hi

We will be realigning the pole on the highway so that we will not require a new easement to be declared on Milford. This was the advice given to me by s 36 from Tasnetworks. I am seeking written confirmation to this effect.

Regards

s 36

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36

pittsh.com.au

From: @stategrowth.tas.gov.au>
Sent: Wednesday, 26 October 2022 8:27 AM
To: s 36 @pittsh.com.au>
Subject: RE: Any progress on TasNetworks easement pls

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36

How is the realignment of the TN pole to not require a deemed easement progressing? Have TN been able to confirm this is possible? Do TN need to revised their design to achieve this?

Thanks,

Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
| s 36
www.stategrowth.tas.gov.au

Courage to make a difference through
TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE
In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From: s 36 @pittsh.com.au>
Sent: Monday, 17 October 2022 10:37 AM
To: @stategrowth.tas.gov.au>
Subject: Re: Any progress on TasNetworks easement pls

Hi

Have not requested a value for the easement in discussion with OVG. It will be assessed in conjunction with the overall scenario - revised access, land resumed, covenants, revised easements etc. I reckon it's about $0 as there is already a deemed easement there and the party that benefits from Tasnetworks keeping the powerlines functional on this section of private property is s 36

Regards

Released under RTI

s 36

Sent from my iPhone

On 17 Oct 2022, at 09:59, [redacted]@stategrowth.tas.gov.au> wrote:

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36

Out of scope. She has taken the liberty to add $5k compensation which to my knowledge has not been agreed. I have asked her to remove and reissue the document. Have you sought easement valuations from the OVG for Milford previously?

Thanks,

[redacted]

Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] s 36
www.stategrowth.tas.gov.au

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In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Under RTI

Out of scope

[redacted]

Document 60

From: [redacted]
To: [redacted]
Subject: Tasnetworks - Milford
Date: Tuesday, 18 October 2022 12:47:44 PM
Attachments: image001.png
N004264 Tasman Hway AP AS_30244 REV A 5 of 5.pdf
1208.pdf

Good afternoon [redacted]
I have discussed the easement with Tasnetworks. The existing "Statutory" easement can be retained as the status quo if the alignment of the supply line does not change (ie no need to declare a new easement or obtain landowner permission). There is land owner permission required for the stay that will have to go on Milford. Tasnetworks proposal only moves the first pole on the road reserve by 2 metres (refer attached). If we put the pole where I have indicated then we don't change the alignment of the supply and there is no need to declare a new easement. You will note that our Drawing 1208 (second attachment) in fact shows the new pole simply replacing the existing, and this would be the position that would be set out by the Contractor. My concern with the new easement at 6 metre width is that it may impact on white gums in this vicinity. This impact has not been assessed in our EPBC submission. The reason for this is that we only received the Tasnetworks design in January this year (having been first requested in November 2019), whereas the investigation for the orchids has been ongoing since October 2019 with follow up surveys in Spring of 2020 and 2021. The initial referral to EPBC was submitted in August 2020 with Preliminary Documentation submitted in October 2021 and revised in February 2022.If we do have to carry out a further on site assessment and reflect findings in a revised submission, it is likely to add many months to the assessment timeframe.
Regards

[redacted]

s 36 [redacted]

Principal Engineer

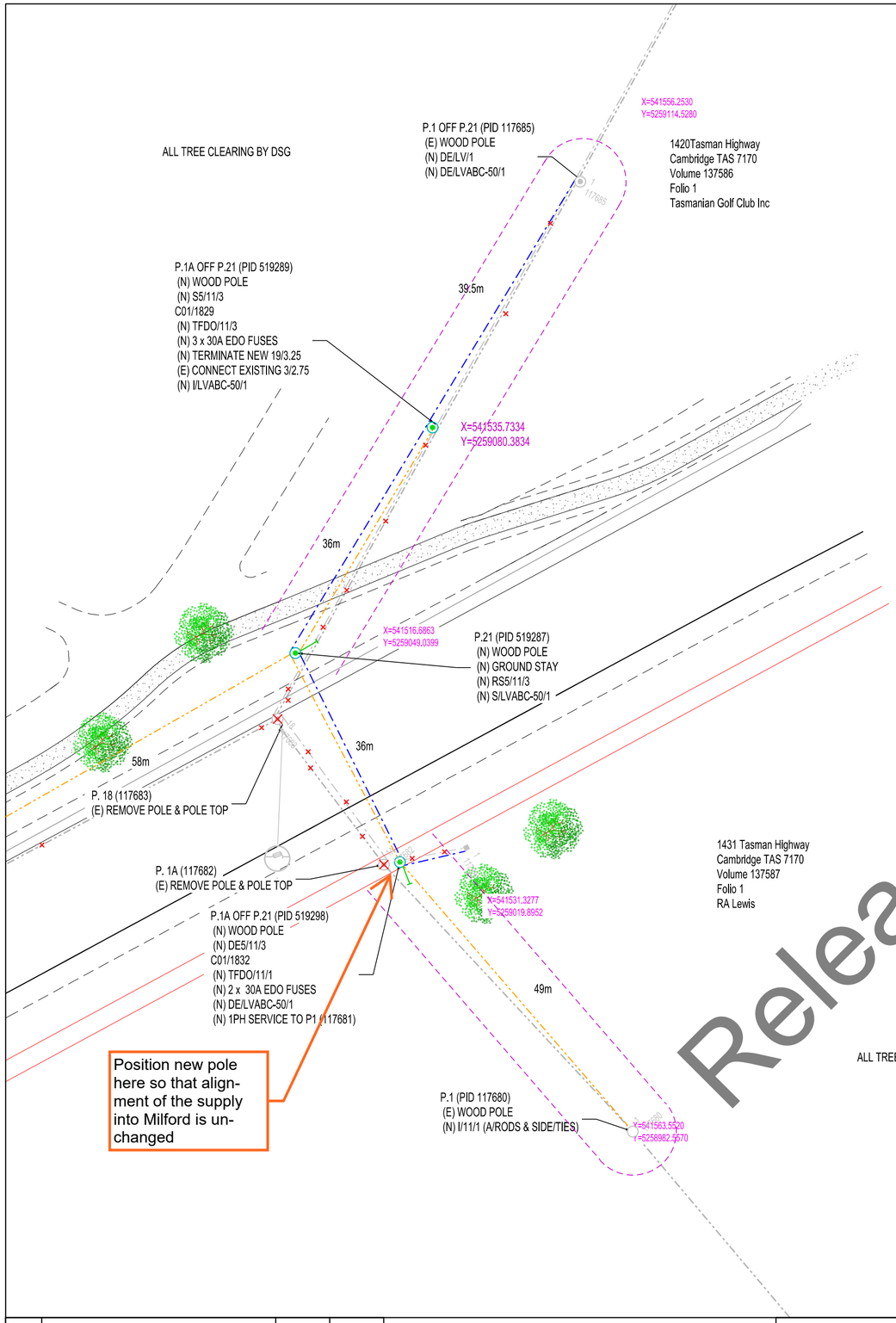
s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

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Attachment 1



POLE & STAY INSTALLATION TABLE

POLE	PID	SIZE	SINK	FILL	SOIL	STAY	ANCHOR	ATTACH HT	OFFSET	BRG (True)	TORQUE	COMMENTS
P21	519287	14m / 8kN	2.3m	EB	PA	GROUND	200mm	10m	10m	70°	5600 N.m	X
P1A	519289	12.5m / 6kN	2.3m	EB	PA							X
P1A	519298	12.5m / 6kN	2.3m	EB	PA	GROUND	200mm	10m	10m	147.14°	5600 N.m	X

FILL TYPES: NB - Natural Backfill, EB - Enhanced Backfill, EBW - Enhanced Backfill (Wide), GC - Gravel Collar, BL - Breast Log, CO - Concrete, SP - Special (to be specified)
SOIL TYPES: WR - Weathered Rock, CA - Cohesive (Hard), CB - Cohesive (Stiff), CC - Cohesive (Firm), CD - Cohesive (Soft), PA - Particulated (Dense), PB - Particulated (Loose)
STAY TYPES: Aerial, Ground, Vertical
ANCHOR TYPES: 200mm Helix, 300mm Helix, Block, Rock

CONDUCTOR STRINGING TABLE

22 kV CONDUCTOR	FROM POLE	TO POLE	No. OF SPANS	M.E.S.	TENSION (% CBL)	REFERENCE SPAN	SAG IN REF. SPAN (@ 15°C)	STRINGING TENSION (@15°C)
3 x 19/3.25 AAC	P10 (519276)	P12 (519278)	2	73.68 m	18 %	P10 to P11	**0.43 m**	**4.4 kN**
3 x 19/3.25 AAC	P12 (519278)	P16 (519282)	4	73.68m	18 %	P12 to P13	**0.62m**	**4.4 kN**
3 x 19/3.25 AAC	P16 (519282)	P17 (519283)	1	47.77 m	18 %	P16 to P17	**0.27 m**	**4.4 kN**
3 x 7/3.00 AAAC	P14 (519280)	P1:14 (519288)	1	63.84 m	22 %	P14 to P1:14	**0.26 m**	**2.6 kN**
3 x 19/3.25 AAC	P17 (519283)	P21 (519287)	4	87.52m	18 %	P20 to P21	**0.4 m**	**4.4 kN**
3 x 19/3.25 AAC	P21 (519287)	P1A (519289)	1	36m	18 %	P21 to P1A	**0.4 m**	**4.4 kN**
3 x 19/3.25 AAC	P21 (519287)	P1A (519298)	1	36m	18 %	P21 to P1A	**0.4 m**	**4.4 kN**

LV CONDUCTOR	FROM POLE	TO POLE	No. OF SPANS	M.E.S.	TENSION (% CBL)	REFERENCE SPAN	SAG IN REF. SPAN (@ 15°C)	STRINGING TENSION (@15°C)
2c 50 LVABC	P1 (117685)	P21 (519287)	2	36.73	8.2 %	P1 to P1A	**0.59 m**	**1.15 kN**
2c 50 LVABC	P21 (519287)	P1A (519218)	1	36.73m	8.2 %	P21 to P1A	**0.4 m**	**1.15 kN**

NOTE: *Sags and tensions shown are for final installation conditions. An allowance has been made for inelastic stretch (creep) of new conductors. Creep allowance for AAC, AAAC, ACSR & LVABC is 0°C for Slack (2%) and Urban (6%), 5°C for Ltd (10%) & 10°C for Med (18%) and Full (22%) Tensions. There has been no creep allowance made for SC/GZ, Hard Drawn Copper (HDC), Piolt and ADSS Conductors and Cables*

NB:
ALL WORKS TO BE COMPLETED IN ACCORDENCE WITH STATE GROWTHS CONSTRUCTION ENVIRONMENTAL MANAGEMENT PLAN AND, AT A MINIMUM, WITH TASNETWORKS ENVONNMENTAL MANAGEMENT PLAN

LEGEND

EXISTING (E)	REMOVE (R)	NEW (N)
HV O/H LINE	HV O/H LINE	11kV HV O/H LINE
LV O/H LINE	LV O/H LINE	LV O/H LINE
SERVICE POLE	SERVICE POLE	HV POLE
LV POLE	LV POLE	HV/LV POLE
HV POLE	HV POLE	TRANSFORMER
HV/LV POLE	HV/LV POLE	EARTH
TRANSFORMER	TRANSFORMER	STAY
EARTH		STAY POLE
STAY	STAY	HV U/G CABLE - 11kV
STAY POLE	STAY POLE	LV U/G CABLE
HV U/G CABLE	HV U/G CABLE	U/G STREETLIGHTING
STREETLIGHT	STREETLIGHT	DUCT
		STREETLIGHT JOINT PIT
		STREETLIGHT

AS BUILT RECORDS

CONSTRUCTED TO DESIGN	NAME	SIGNED	DATE
Civil Contractor Representative			
TasNetworks Works Team Leader Advised			
TasNetworks Construction Crew			
TasNetworks Works Team Leader			
As-Builts attached in SAP Project Files			
Work Order No.			

Released under RTI

No.	Revision Description	Drawn	Date
A	Convert from P167241 to Pitwater Rd to Underground	WR	12/05/22

0 10m 20m 30m 40m
ORIGINAL SCALE 1:500 @ A2
ALL DIMENSIONS IN METRES UNLESS OTHERWISE INDICATED

Reference Drawings

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TasNetworks Delivering your power
ABN. 24 167 357 299

Designed.		Date. 09/09/2021
Drawn.		Date. 09/09/2021
Checked.		Date. 17/05/2022
Approved.		Date. 18/05/2022

File. SAP//.../Design..N_004264_as-30244

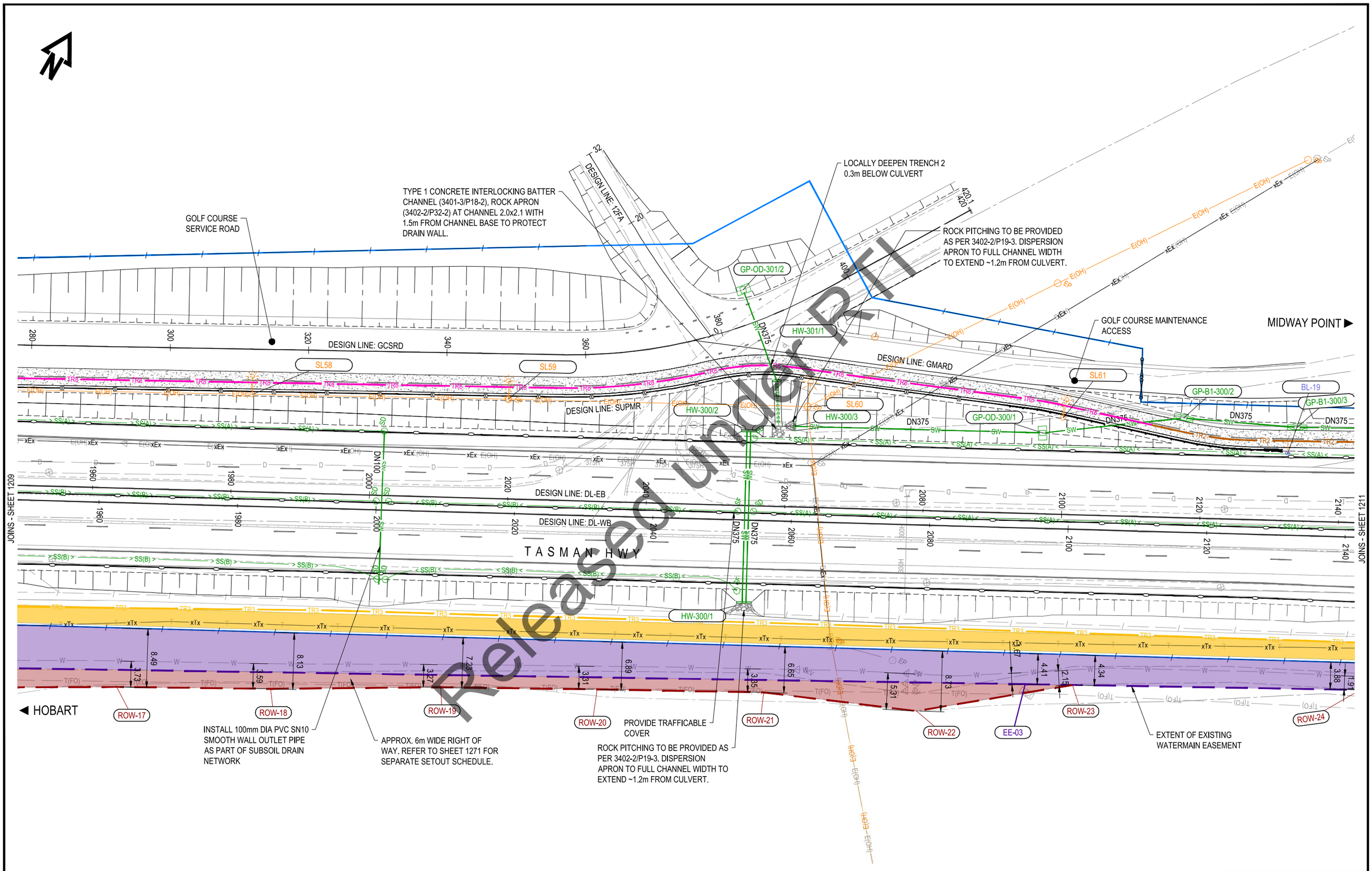
TASMANIAN NETWORKS PTY LTD

Title CAMBRIDGE - TASMAN HIGHWAY QUREO ASSET RELOCATION O/H & U/G MAINS PLAN

Drawing No. AS-30244
Sheet No. 5 of 5 | Size. A2 | Scale. 1:500
Project. N/004264 | Revision. A

NB: ALL DRAWINGS TO BE PRINTED IN COLOUR

Attachment 2



Released Under RFI

No.	Amendment Description	Initials	Date
B	DETAILED DESIGN	D.C.	08/02/2022
A	DETAILED DESIGN	D.C.	17/03/2021

A3 original | This sheet may be prepared using colour and may be incomplete if copied

SCALES
1:500m (A3)
5 0 5 10 15 20
SCALE IN METRES - 1:500

Co-ordinate System: MGA ZONE 55 | Height Datum: A.H.D.

pitt&sherry

Tasmanian Government

DESIGNED
REVIEWED

Department of State Growth

TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

DRAINAGE AND SERVICES - DRG 10

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1210	19-Apr-22, 4:31 PM	1210

REGISTRATION NUMBER
A0113.028

REVISION B

From: [redacted]
To: [redacted]
Cc: [redacted]
Subject: Re: Milford TasNetworks easement
Date: Tuesday, 18 October 2022 11:18:15 AM
Attachments: image001.jpg
image001.jpg
Out of scope [redacted]

I'll send it off , however there is no existing defined easement, just a right under the Act to enter under the powerlines to do whatever is necessary to maintain supply

Sent from my iPhone

On 18 Oct 2022, at 10:04, [redacted] stategrowth.tas.gov.au> wrote:

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36 .
In relation to the Milford easement, can please develop an easement plan clearly showing the existing easement and new easement location and sent it to the OVG for assessment and cc myself and [redacted] We need the OVG to assess the easement for compensation. Out of scope [redacted].
Thanks,
[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

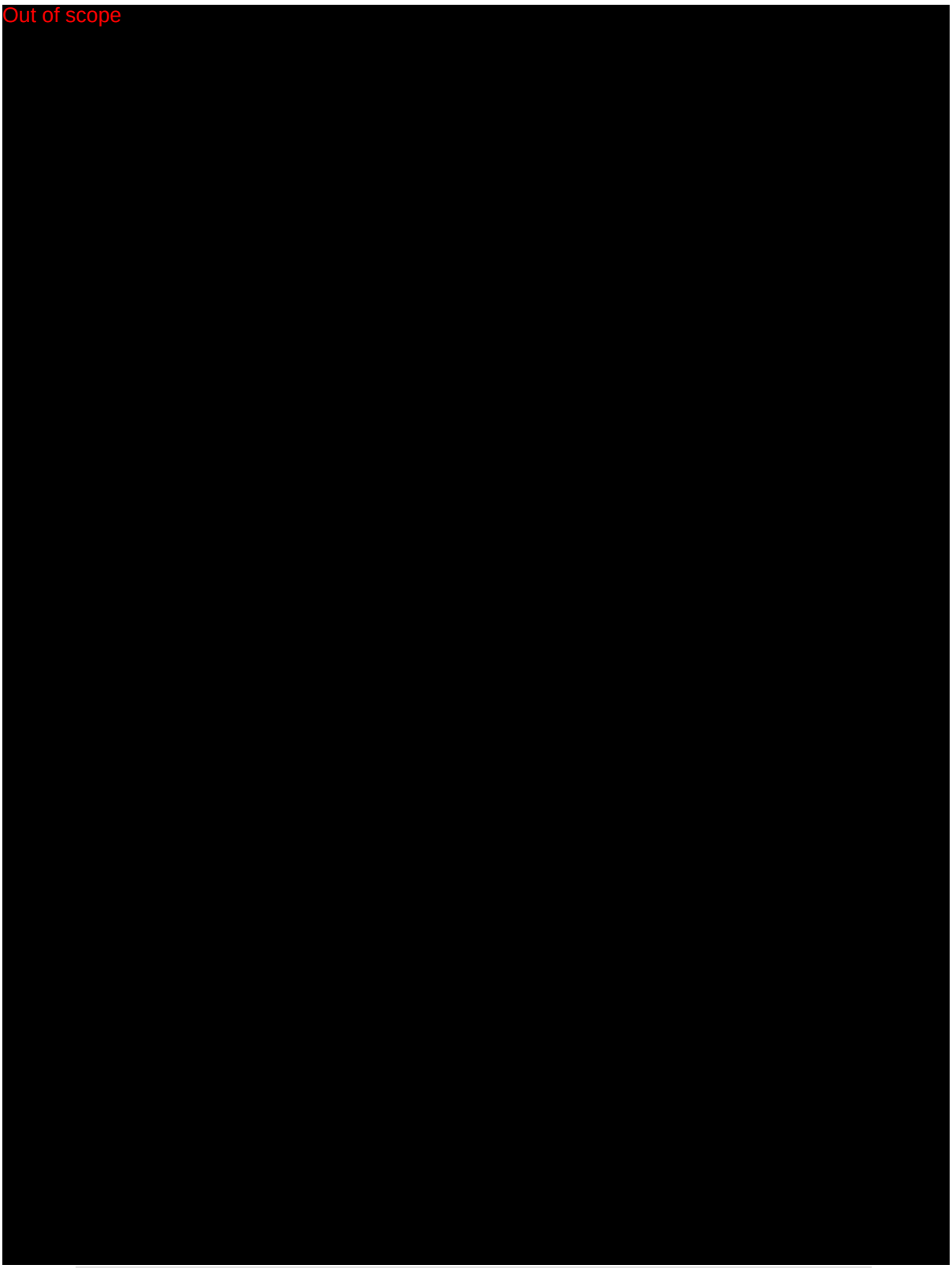
Courage to make a difference through
TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE
In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

Out of scope [redacted]

Released under RTI

Out of scope



From: [redacted]
Sent: Monday, 17 October 2022 9:59 AM
To: s 36 [redacted] @pittsh.com.au>
Subject: FW: Any progress on TasNetworks easement pls

Hi s 36 [redacted]

Out of scope [redacted]. She has taken the liberty to add $5k compensation which to my knowledge has not been agreed. I have asked her to remove and reissue the document. Have you sought easement valuations from the OVG for Milford previously?

Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

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Please note I do not work Fridays.

Out of scope

[redacted]

Attachment 1



Released Under RTI

From: s 36
To: [redacted]
Cc: s 36 [redacted]; [redacted]
Subject: Re: Tasman Highway - Orchid Habitat
Date: Tuesday, 18 October 2022 11:23:09 AM
Attachments: image001.png
image001.png

We're working on the Offset Plan right now, we will still need the advice from EPBC whether the offset area is in, or extra to, the RSC to finalise. However that shouldn't change the overall structure too much

Sent from my iPhone

On 18 Oct 2022, at 10:09, [redacted]@stategrowth.tas.gov.au> wrote:

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36
Thank you for letting me know. As s 36 is back, can you please ensure we are prioritising our changes to the offset management plan.
Thanks,
[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

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In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From: s 36 [redacted]@pittsh.com.au>
Sent: Tuesday, 18 October 2022 8:32 AM
To: [redacted]@stategrowth.tas.gov.au>
Subject: Re: Tasman Highway - Orchid Habitat
Hi [redacted]
The maps are accurate within the limitations of the level of detail employed in the survey. None of this kind of assessment is precise. The easement contains features that mean it could potentially support orchids. None have been identified there, but some might appear in the future. Surveys by North Barker and others have put more time and effort into other areas
Regards
[redacted]

Sent from my iPhone

Released under RTI

On 18 Oct 2022, at 08:25, [redacted]
[redacted]@stategrowth.tas.gov.au> wrote:

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36 .

Out of scope . If NB have not assessed it to the level of detail to determine habitat likeliness, does that mean the maps in the OMP are not accurate?

Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

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r PTI

Out of scope [redacted]

From: s 36 [redacted]
To: [redacted]
Cc: [redacted]
Subject: Re: Milford TasNetworks easement
Date: Tuesday, 18 October 2022 11:30:38 AM
Attachments: image001.jpg
image001.jpg
Vegetation Clearing_Fact Sheet A4.pdf

Hi [redacted]
The existing easement is fairly well cleared, even though aerials might show it differently. Tasnetworks will need to be aware of EPBC obligations if they undertake any additional clearing. [redacted] needs to inform s 36 [redacted] that we have advised Tasnetworks of this. I will advise TN in writing and verify what their process is so that they don't come back in the future and remove trees indiscriminately without proper process being followed

Sent from my iPhone

On 18 Oct 2022, at 11:16, [redacted] @stategrowth.tas.gov.au> wrote:

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi both,
I can also see a lot of trees at the proposed easement.
Just wanted to make sure that vegetation clearing (6m from both sides of the pole going up 45 degree) requirement by TasNetworks has been considered and discussed with Milford?
A copy of the fact sheet is attached.
Cheers,
[redacted]

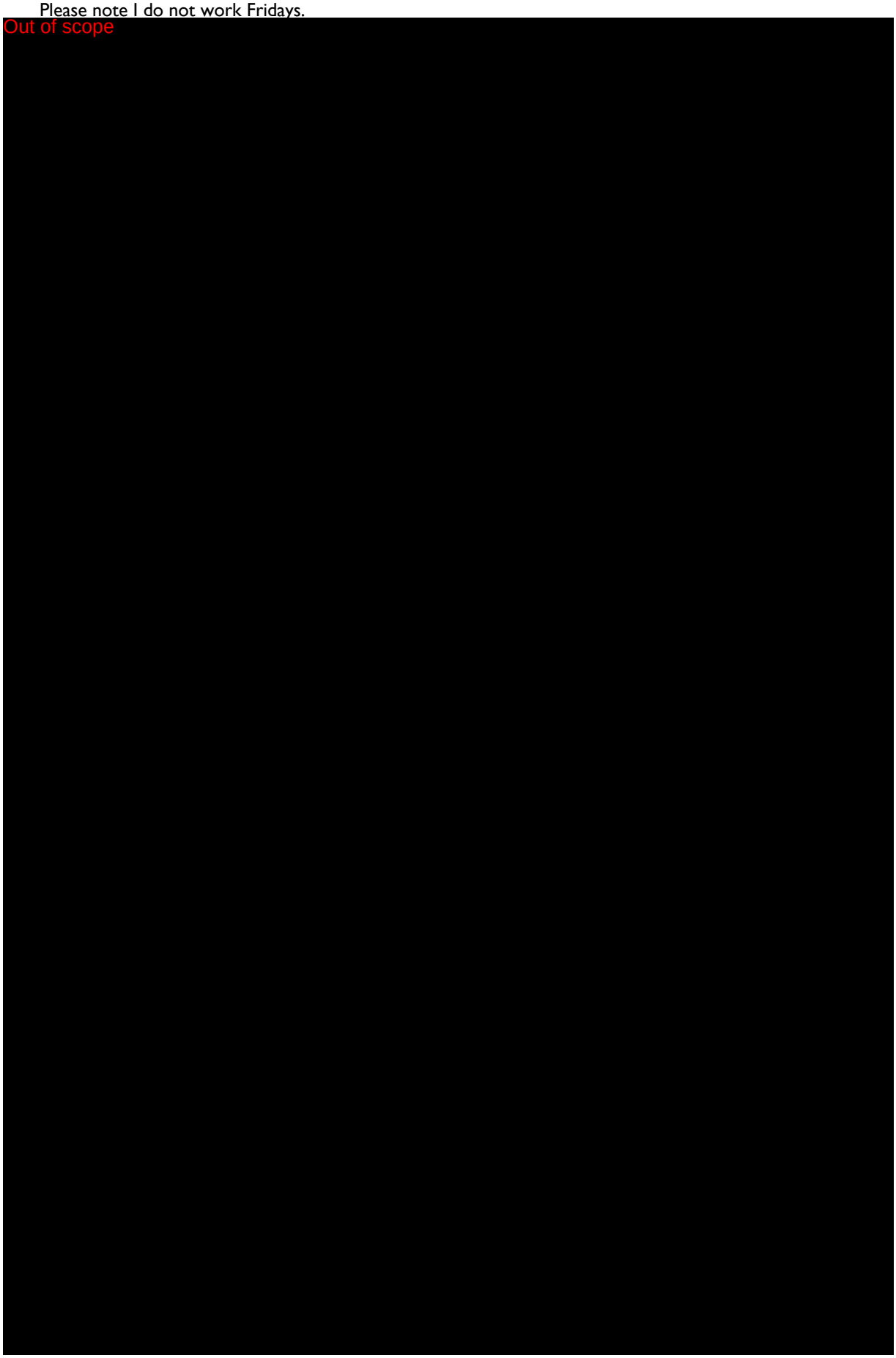
From: [redacted] @stategrowth.tas.gov.au>
Sent: Tuesday, 18 October 2022 10:04 AM
To: s 36 [redacted] @pittsh.com.au>
Cc: [redacted] @stategrowth.tas.gov.au>
Subject: FW: Milford TasNetworks easement
Hi s 36 [redacted]
In relation to the Milford easement, can please develop an easement plan clearly showing the existing easement and new easement location and sent it to the OVG for assessment and cc myself and [redacted]. We need the OVG to assess the easement for compensation. out of scope [redacted].
Thanks,
[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

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Out of scope



Out of scope

[redacted]

From: [redacted]
Sent: Monday, 17 October 2022 9:59 AM
To: s 36 [redacted] @pittsh.com.au>
Subject: FW: Any progress on TasNetworks easement pls

Hi s 36 [redacted]

Out of scope [redacted]. She has taken the liberty to add $5k compensation which to my knowledge has not been agreed. I have asked her to remove and reissue the document. Have you sought easement valuations from the OVG for Milford previously?

Thanks,

[redacted]

Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

Courage to make a difference through
TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE
In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

ed under RTI

Out of scope

[redacted]

Document 64

From: s 36
To: [redacted]
Cc: [redacted]; s 36
Subject: RE: ARFF Access to Milford
Date: Thursday, 13 October 2022 5:33:59 PM
Attachments: image001.png
image002.jpg

Ok [redacted], I'll check with North Barker. I don't reckon its an error though. There is no 12 metre Tasnetwork easement presently. The area under the power lines is deemed to be an easement under the Tasnetworks Act, they have rights to enter and clear etc, width not specified. I don't think the area has been cleared by Tasnetworks recently. The proposed upgrade of the power line was the trigger for Tasnetworks to seek to declare a formal easement of 12 m width.
Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: [redacted]@stategrowth.tas.gov.au>
Sent: Thursday, 13 October 2022 5:16 PM
To: s 36 [redacted]@pittsh.com.au>
Cc: [redacted]@stategrowth.tas.gov.au>; s 36 [redacted]@pittsh.com.au>
Subject: RE: ARFF Access to Milford

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Hi s 36 [redacted].
It looks like a mapping error, best to check with North Baker. It is assumed by myself and Keira that the 12m TN easement is not within the habitat as TN clear this area as part of their easement maintenance. My question, maybe for s 36 [redacted] and North Baker, if we clear within the 12m eastment to ground level to provide a passing bay does this impact the Orchid habitat and therefore our submission.
FYI, I'm telling s36 [redacted] that I can't assess if the overtaking lane can be installed as it is determined on whether or not a formal easement is in plan as she has not yet signed the TN easement deed.
Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

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From: s 36 [redacted]@pittsh.com.au>
Sent: Thursday, 13 October 2022 4:52 PM
To: [redacted]@stategrowth.tas.gov.au>
Subject: RE: ARFF Access to Milford
Hi [redacted]
Looks like the track goes in to avoid stop valves. The Tasnetworks easement looks like it is right on the boundary of potential orchid habitat, refer attached. I think its best to walk that section of the track east of the easement and find a section that hasn't got any trees and see if Robyn is happy to have a passing bay there.
Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: [redacted]@stategrowth.tas.gov.au>
Sent: Thursday, 13 October 2022 4:38 PM

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To: s 36 @pittsh.com.au>; @stategrowth.tas.gov.au>; s 36 @pittsh.com.au>

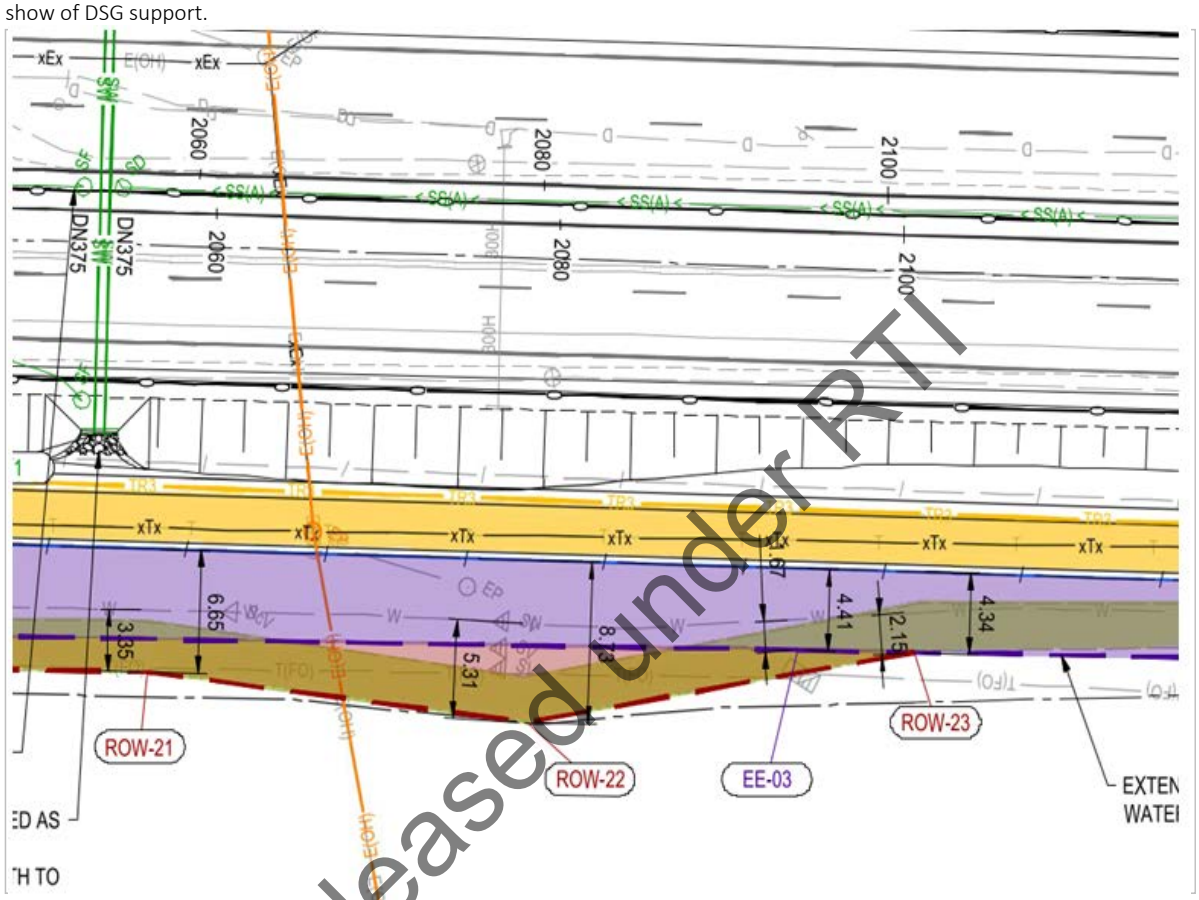
Subject: RE: ARFF Access to Milford

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Hi s 36 .

Does the trail steep in here because it is missing services? I think it would be better under the TN easement as limbs would not need removal. s 39 .

I think if we cleared under the TN easement as you've described, assuming no impact on the EPBC submission, this is another show of DSG support.



Thanks,

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4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
| s 39
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From: s 36 @pittsh.com.au>
Sent: Wednesday, 12 October 2022 2:10 PM
To: @stategrowth.tas.gov.au>; @stategrowth.tas.gov.au>; s 36 @pittsh.com.au>
Subject: RE: ARFF Access to Milford

Hi

The fire trail is to be cleared of vegetation and then just roughly formed in the underlying sand, maybe one light pass with aa grader to take out a few bumps.

s 36

The access can accommodate the ARFF vehicle, however due to height and width some trimming of overhead branches may be required.

Regards

s 36

Released under RTI

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36

pittsh.com.au

From: @stategrowth.tas.gov.au>
Sent: Wednesday, 12 October 2022 1:37 PM
To: s 36 @pittsh.com.au>
Cc: @stategrowth.tas.gov.au>; s 36 @pittsh.com.au>
Subject: FW: ARFF Access to Milford

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Hi s 36

What is the plan to create the two new sections of the fire trail? I assume this will be mulched to ground level or are we planning on grading or the likes?

We discussed the possibility of a passing opportunity within the TN 12m easement, are we able to advise s36 we can do this?

and s 36 if we do this will this impact our impacts and PD/offset calc?

Thanks,

Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
| s 36
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der RTI

Out of scope

From:
To: [redacted]
Subject: RE: TW Design - Milford
Date: Thursday, 13 October 2022 5:00:29 PM

Good work, lets hope s 36 can find a way to get it back quickly
Regards
s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: [redacted]@stategrowth.tas.gov.au>
Sent: Thursday, 13 October 2022 4:58 PM
To: s 36 [redacted]@pittsh.com.au>
Subject: RE: TW Design - Milford

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Thanks mate.
It's now with s 36 [redacted] for approval.
Thanks,

[redacted] | Project Manager
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

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From: s 36 [redacted]@pittsh.com.au>
Sent: Thursday, 13 October 2022 4:48 PM
To: [redacted]@stategrowth.tas.gov.au>
Subject: RE: TW Design - Milford

Yes Pines and the takeoff, which is theoretically outside Milford.
Regards
s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: [redacted]@stategrowth.tas.gov.au>
Sent: Thursday, 13 October 2022 4:43 PM

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To: s 36 @pittsh.com.au>
Subject: RE: TW Design - Milford

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36

Are the TW works on Milford limit to the Pines WM and golf club take off? Are there any other works I've missed?

Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

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From: s 36 @pittsh.com.au>
Sent: Tuesday, 11 October 2022 7:48 PM
To: [redacted] @stategrowth.tas.gov.au>
Subject: RE: TW Design - Milford

Hi [redacted]

Refer attached. Hydrant noted on Drawing 1209,1259 (WM 118 DN 100 Branch TEE)

Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: [redacted] @stategrowth.tas.gov.au>
Sent: Tuesday, 11 October 2022 10:52 AM
To: s 36 @pittsh.com.au>
Subject: TW Design - Milford

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36 .

For document control, can you send through the latest design to seek s36 approval for works on her property. Is this limited to the Pines WM and golf club take off?

Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

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Attachment 1

INSTALL 100mm DIA PVC SN10 SMOOTH WALL OUTLET PIPE AS PART OF SUBSOIL DRAIN NETWORK

RELOCATE GOLF COURSE PRIVATE RECYCLED WATER PIPE FROM CH.1675 TO CH.1740 (DL-EB)

FOR TRAFFIC SIGNALING DETAILS REFER TO DRAWING 1041

LOCALLY DEEPEN TRENCH 2 0.3m BELOW CULVERT

GOLF COURSE PRIVATE RECYCLED WATER MAIN

GOLF COURSE SERVICE ROAD

ROCK PITCHING TO BE PROVIDED AS PER 3402-2/P19-3. DISPERSION APRON TO FULL CHANNEL WIDTH TO EXTEND ~1.6m FROM CULVERT.

MIDWAY POINT ▶

BARILLA SERVICE ROAD

DESIGN LINE: BBSRD

DESIGN LINE: GCSRD

DESIGN LINE: MCSR

DESIGN LINE: DL-EB

DESIGN LINE: DL-WB

DESIGN LINE: MC1

DESIGN LINE: MC2

DESIGN LINE: PWRD

DESIGN LINE: MCPR

TASMAN HWY

◀ HOBART

SEVEN MILE BEACH ▶

PITTWATER RD

JOINS - SHEET 1207

JOINS - SHEET 1209

JOINS INSET A

SL01 SL02 SL03 SL04 SL05 SL06 SL07 SL52 SL61

HW-200/1 HW-210/1 HW-210/2 HW-210/3 HW-210/5

SEP-M1-200/2 SEP-M1-200/3 SEP-M1-210/2 SEP-M1-212/1

WM-110 WM-111 WM-112 WM-113 WM-114 WM-115 WM-116

ROW-01 ROW-02 ROW-03 ROW-04 ROW-05 ROW-06 ROW-07 ROW-08

DN100 DN300 DN375 DN450 DN225

DN100 SCOUR TO DRAIN

INSTALL NEW SCOUR VALVE PIT

OFFSET TYPICAL 1.5

THRUST BLOCK

NEW DN375 PN35 DICL WATERMAIN

EXTENT OF EXISTING WATERMAIN EASEMENT. REFER TO SHEET 1271 FOR SEPARATE SETOUT SCHEDULE.

RELOCATED PROPERTY CONNECTION AND WATER METER FOR MILFORD PROPERTY

ROCK PITCHING TO BE PROVIDED AS PER 3402-2/P19-3. DISPERSION APRON TO FULL CHANNEL WIDTH TO EXTEND ~1.5m FROM CULVERT.

APPROX. 6m WIDE RIGHT OF WAY. REFER TO SHEET 1271 FOR SEPARATE SETOUT SCHEDULE.

TRENCH 3 CONTINUES TO EXISTING POLE No.114374/2

MILFORD ACCESS 02

INSET A
SCALE: 1:500

INSET B
SCALE 1:500

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No.	Amendment Description	Initials	Date
B	DETAILED DESIGN	D.C.	08/02/2022
A	DETAILED DESIGN	D.C.	17/03/2021

A3 original — This sheet may be prepared using colour and may be incomplete if copied

SCALES
1:500m (A3)
5 0 5 10 15 20
SCALE IN METRES - 1:500

Co-ordinate System: MGA ZONE 55 Height Datum: A.H.D.

pitt&sherry

Tasmanian Government

DESIGNED [redacted]

REVIEWED [redacted]

Department of State Growth

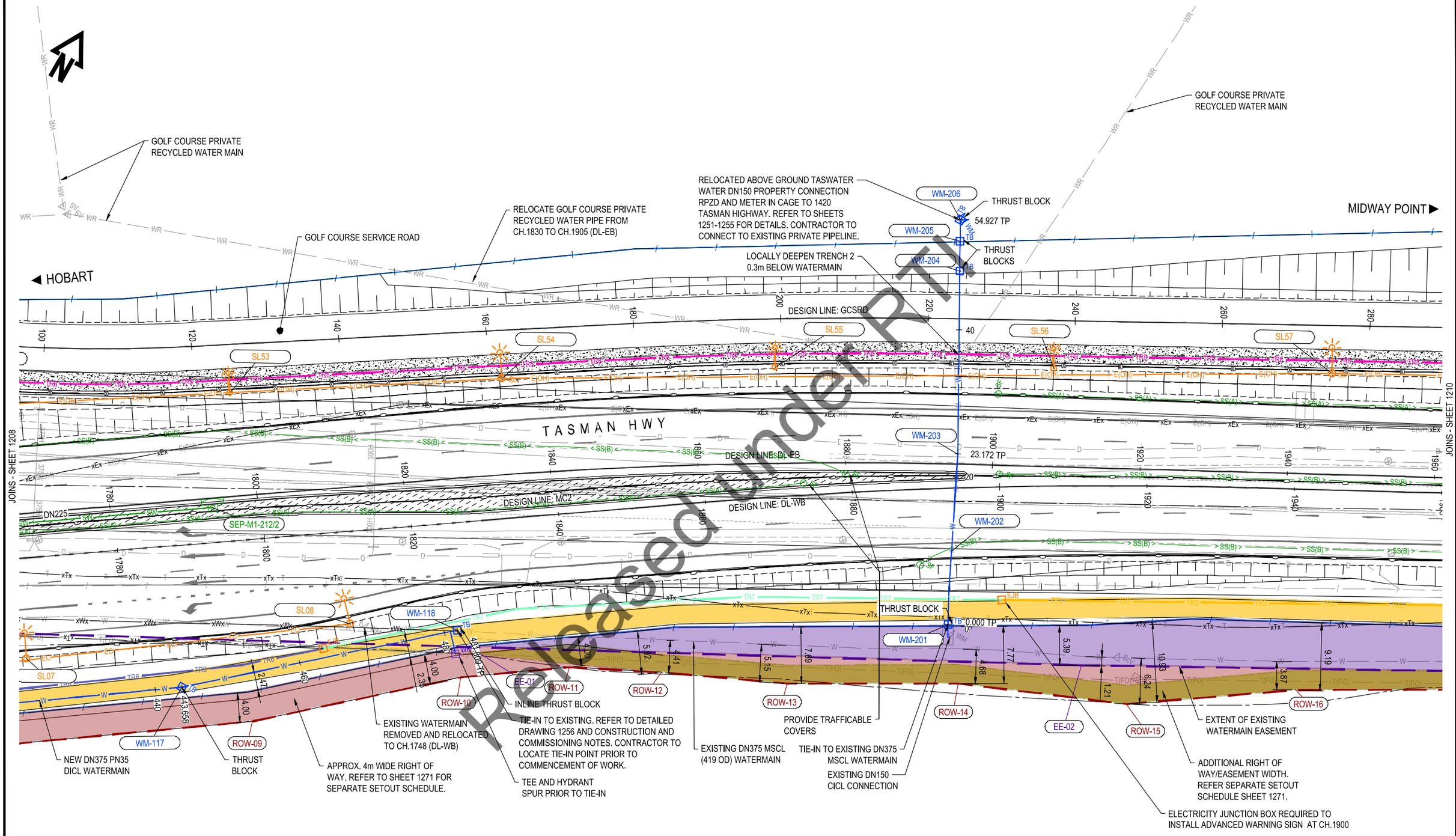
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

DRAINAGE AND SERVICES - DRG 8

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1208	06-Oct-22, 4:24 PM	1208

REGISTRATION NUMBER
A0113.028

REVISION B



Released Under RTI

No.	Amendment Description	Initials	Date
C	WATER HYDRANT ADDED	C.M.	06/10/2022
B	DETAILED DESIGN	D.C.	08/02/2022
A	DETAILED DESIGN	D.C.	17/03/2021

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SCALES
1:500m (A3)
5 0 5 10 15 20
SCALE IN METRES - 1:500

Co-ordinate System: MGA ZONE 55 **Height Datum:** A.H.D.

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DESIGNED

REVIEWED

Department of State Growth

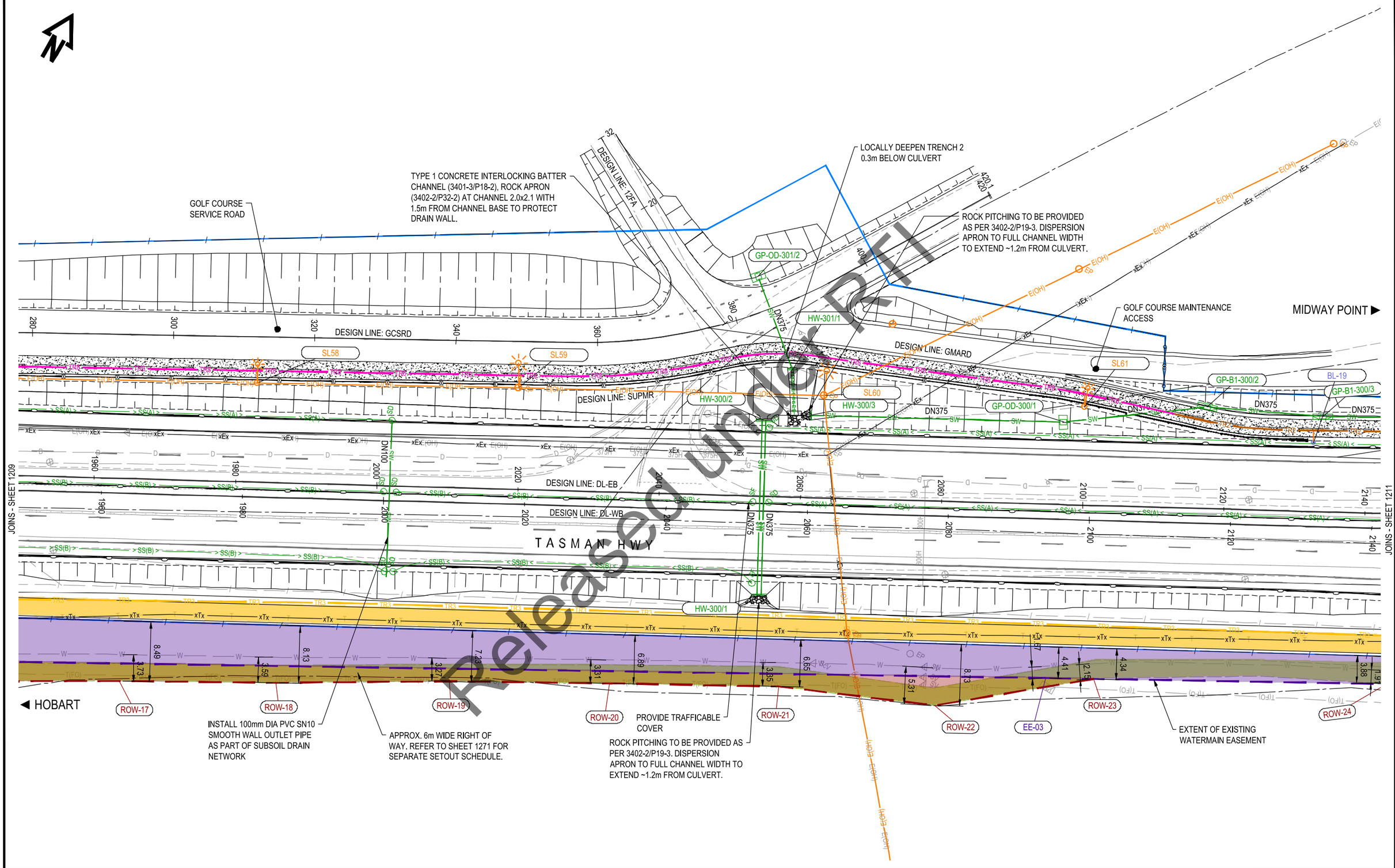
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

DRAINAGE AND SERVICES - DRG 9

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1209	06-Oct-22, 4:24 PM	1209

REGISTRATION NUMBER
A0113.028

REVISION C



No.	Amendment Description	Initials	Date
B	DETAILED DESIGN	D.C.	08/02/2022
A	DETAILED DESIGN	D.C.	17/03/2021
A3 original	This sheet may be prepared using colour and may be incomplete if copied		

SCALES
1:500m (A3)
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SCALE IN METRES - 1:500

Co-ordinate System: MGA ZONE 55 **Height Datum:** A.H.D.

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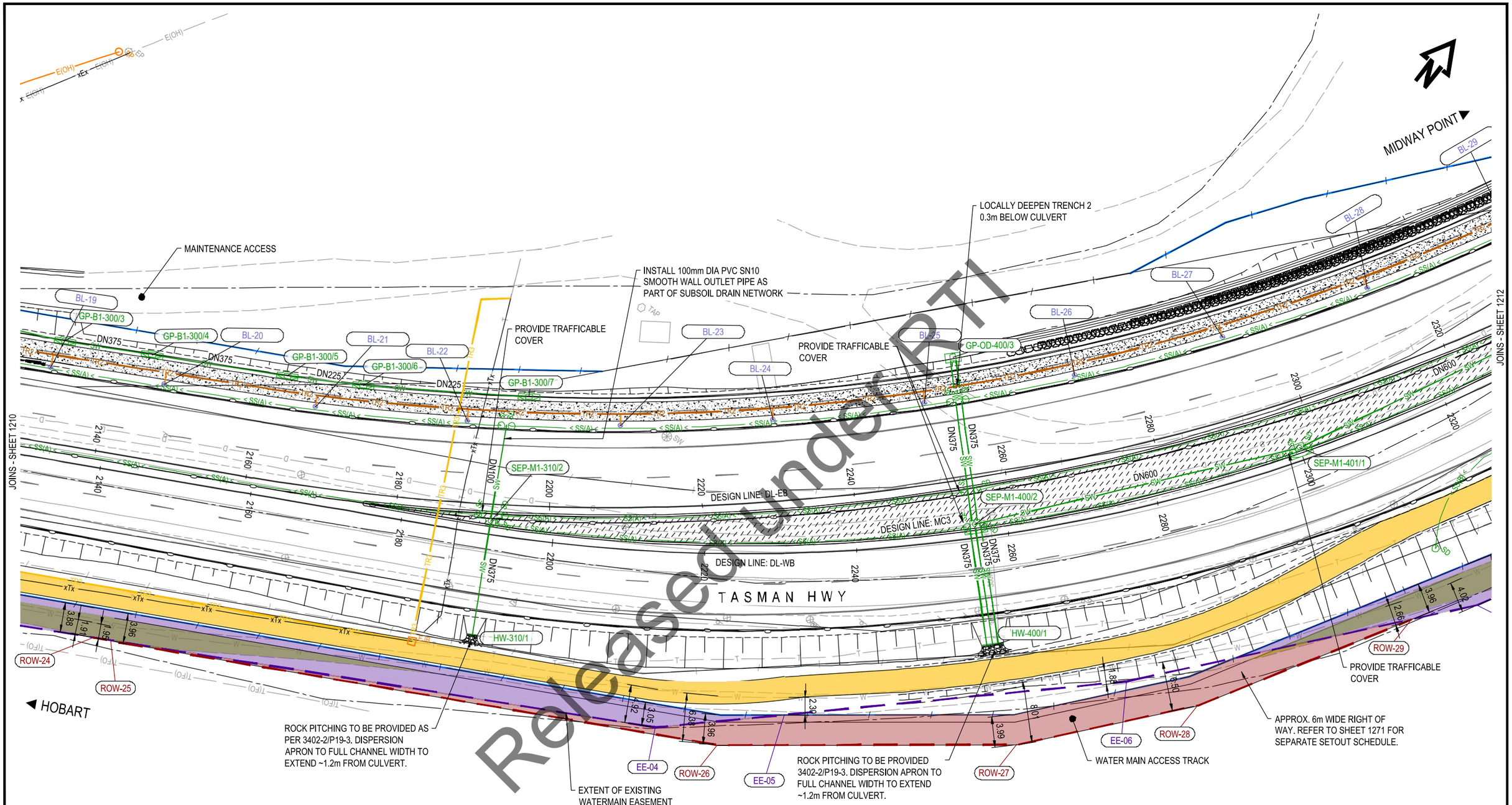
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

DRAINAGE AND SERVICES - DRG 10

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1210	06-Oct-22, 4:24 PM	1210

REGISTRATION NUMBER
A0113.028

REVISION B



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No.	Amendment Description	Initials	Date
B	DETAILED DESIGN	D.C.	08/02/2022
A	DETAILED DESIGN	D.C.	17/03/2021

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SCALES
1:500m (A3)
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SCALE IN METRES - 1:500

Co-ordinate System: MGA ZONE 55 | Height Datum: A.H.D.

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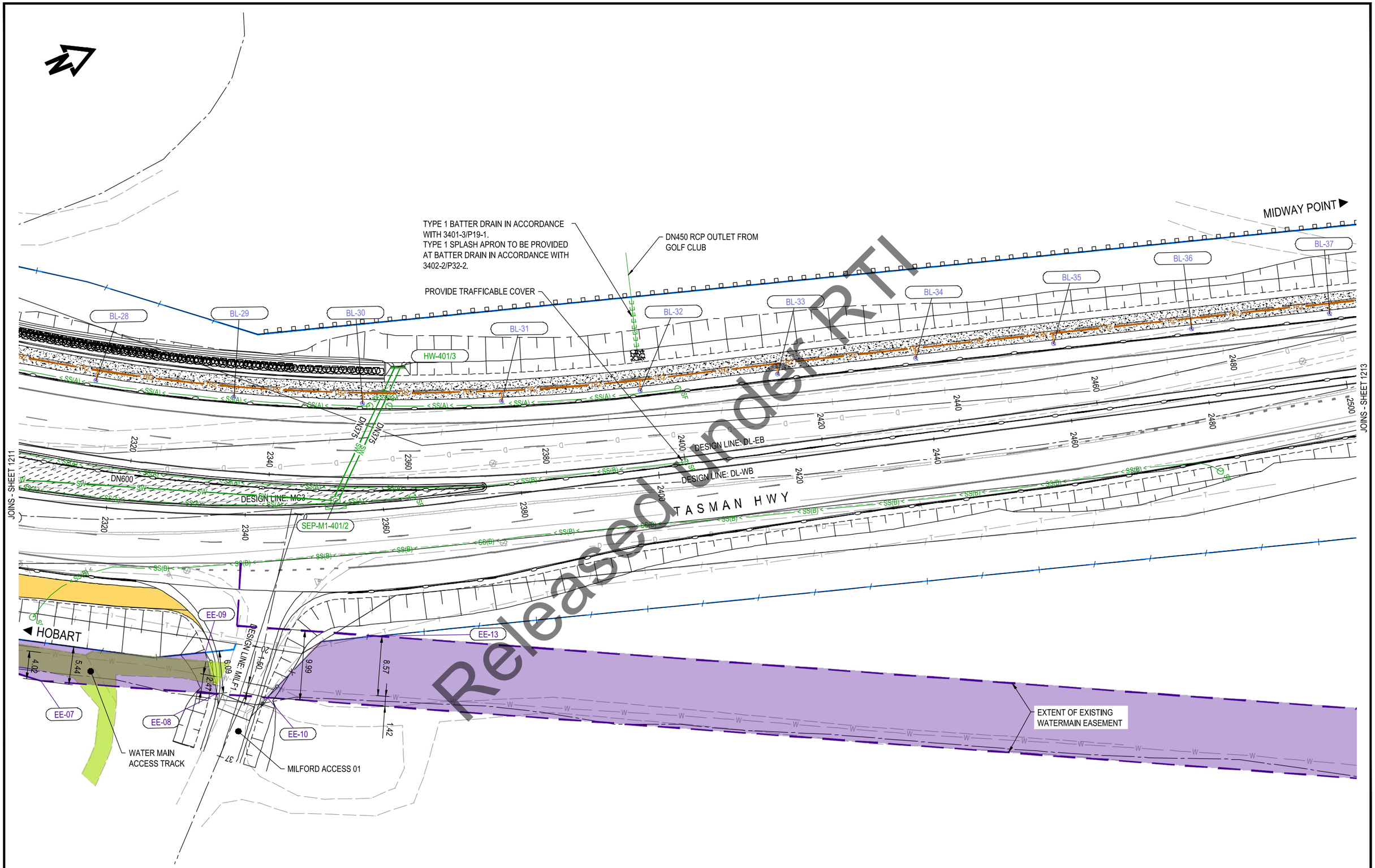
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY ROADWORKS

DRAINAGE AND SERVICES - DRG 11

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1211	06-Oct-22, 4:24 PM	1211

REGISTRATION NUMBER
A0113.028

REVISION B



No.	Amendment Description	Initials	Date
B	DETAILED DESIGN	D.C.	08/02/2022
A	DETAILED DESIGN	D.C.	17/03/2021

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5 0 5 10 15 20
SCALE IN METRES - 1:500

Co-ordinate System: MGA ZONE 55 **Height Datum:** A.H.D.

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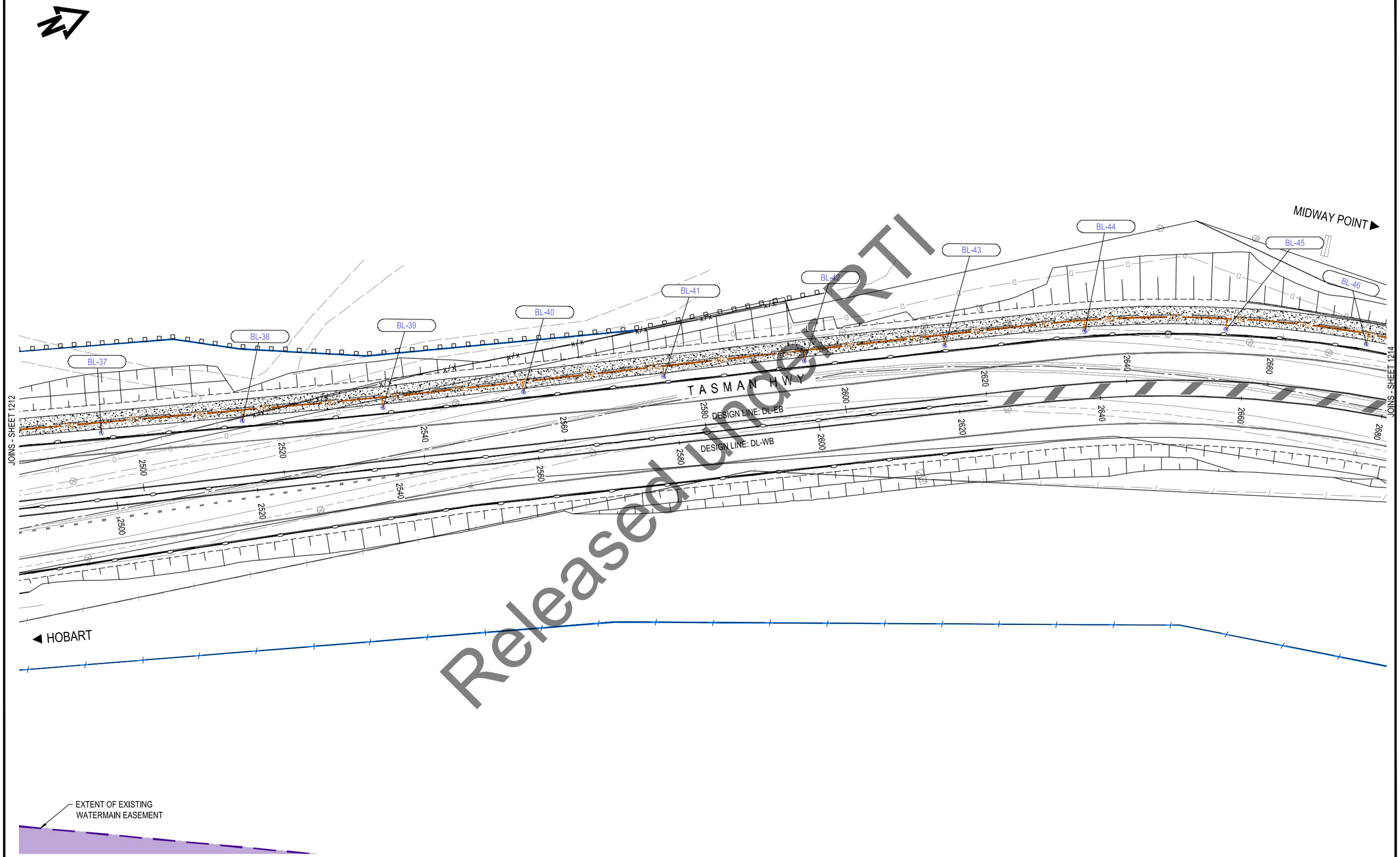
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HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

DRAINAGE AND SERVICES - DRG 12

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1212	06-Oct-22, 4:24 PM	1212

REGISTRATION NUMBER
A0113.028

REVISION B



Released under RTI

No.	Amendment Description	Initials	Date
B	DETAILED DESIGN	D.C.	08/02/2022
A	DETAILED DESIGN	D.C.	17/03/2021

A3 original | This sheet may be prepared using colour and may be incomplete if copied

SCALES
1:500m (A3)
5 0 5 10 15 20
SCALE IN METRES - 1:500

Co-ordinate System: MGA ZONE 55 | Height Datum: A.H.D.

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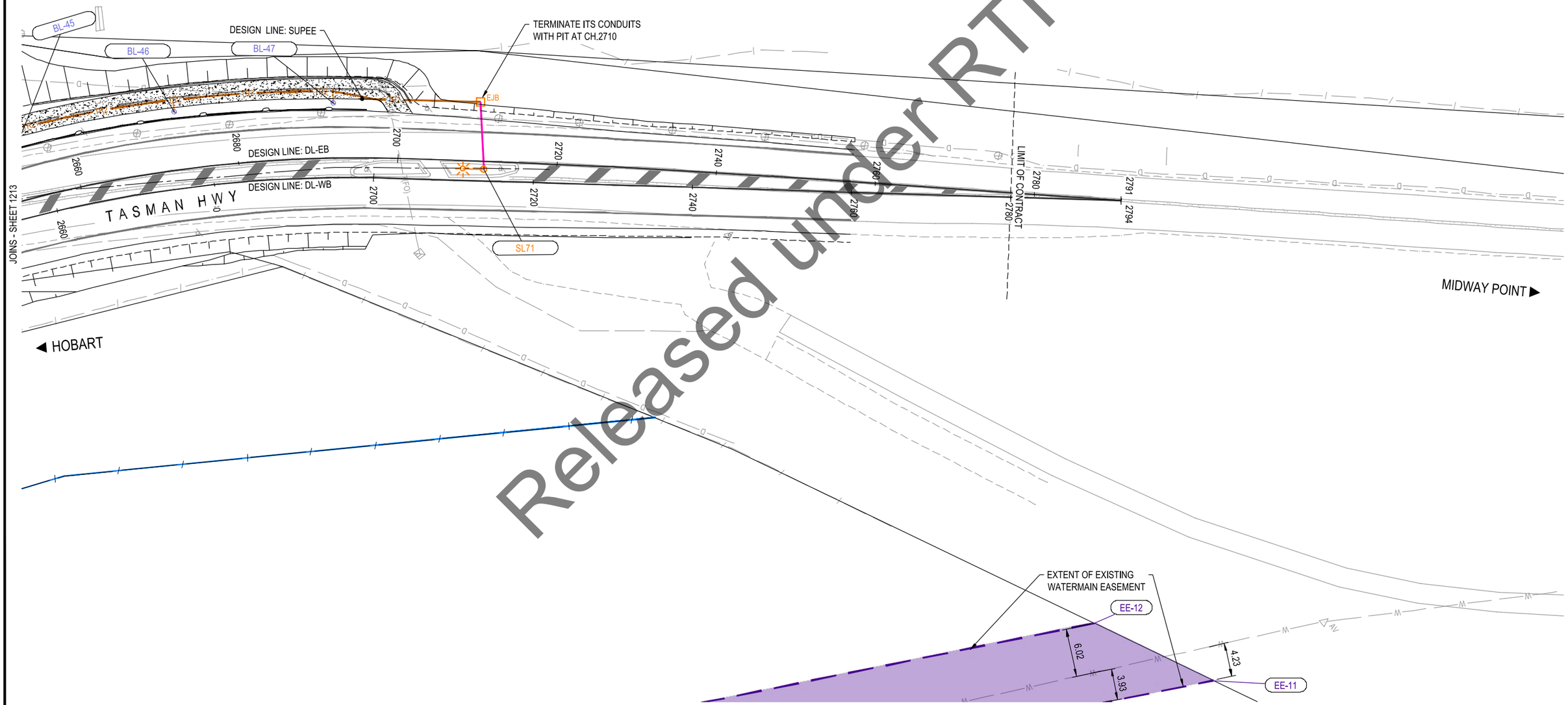
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

DRAINAGE AND SERVICES - DRG 13

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1213	06-Oct-22, 4:24 PM	1213

REGISTRATION NUMBER
A0113.028

REVISION B



Released under RTI

No.	Amendment Description	Initials	Date
B	DETAILED DESIGN	D.C.	08/02/2022
A	DETAILED DESIGN	D.C.	17/03/2021

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SCALES
1:500m (A3)
5 0 5 10 15 20
SCALE IN METRES - 1:500

Co-ordinate System: MGA ZONE 55 | Height Datum: A.H.D.

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TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

DRAINAGE AND SERVICES - DRG 14

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1214	06-Oct-22, 4:25 PM	1214

REGISTRATION NUMBER
A0113.028

REVISION B

GENERAL NOTES

1. THE LOCATION OF UNDERGROUND SERVICES ARE BASED ON SURVEY DRAWING 301593 D03 R1 AIRPORT TO CAUSEWAY 1 DATED 09/12/2019 BY VERIS SURVEYORS. THE EXACT POSITION OF EACH SERVICE PRESENT SHOULD BE ESTABLISHED ON SITE WITH THE RESPECTIVE SERVICE OWNERS PRIOR TO COMMENCING CONSTRUCTION.
2. FOR GROUND ENGINEERING DETAILS REFER HB19197 TEST PIT LOGS AND LAB TEST RESULTS.
3. ALL SETOUT DIMENSIONS ARE IN METRES UNLESS NOTED OTHERWISE (U.N.O.) DETAIL SHEETS ARE IN MILLIMETRES (MM).
4. SITE SETOUT IS BASED ON THE SURVEY UNDERTAKEN BY VERIS SURVEYORS
5. ANY DISCREPANCIES WITHIN PROJECT DOCUMENTATION SHALL BE REPORTED TO THE SUPERINTENDENT FOR RESOLUTION.

CIVIL WORKS

1. THE CONTRACTOR SHALL PREPARE AND PROVIDE A SEDIMENT AND EROSION CONTROL PLAN FOR THE WORKS. NO WORK SHALL BE COMMENCED UNTIL THIS PLAN HAS BEEN APPROVED BY THE SUPERINTENDENT.
2. NO MACHINERY IS TO BE PLACED ON OR HAVE ACCESS TO ANY AREA OUTSIDE THE LIMIT OF WORKS UNLESS APPROVED BY THE SUPERINTENDENT.
3. THE LIMIT OF WORKS LINE SHALL BE TEMPORARILY FENCED WITH BUNTING BEFORE ANY WORKS COMMENCE.
4. ALL WORKS TO BE UNDERTAKEN IN ACCORDANCE WITH THE FOLLOWING DEPARTMENT OF STATE GROWTH SPECIFICATIONS:
   R21 - CLEARING AND GRUBBING, R22 - EARTHWORKS, R23 - SUBGRADE ZONE, R31 - OPEN DRAINS AND CHANNELS, R36 - KERB AND GUTTER, R40 - PAVEMENT BASE AND SUBBASE, R40.1 NOMINATION OF MATERIALS FORM, EXPLANATORY NOTES, R43 - PAVEMENT AND SHOULDER MAINTENANCE, R51 - SPRAYED BITUMINOUS SURFACING, R55 - ASPHALT PLACEMENT, R64 - PAVEMENT MARKING, R80 - MISCELLANEOUS CONCRETE SLABS.
5. NO CLEARING OF VEGETATION OR REMOVAL OF TOPSOIL IS PERMITTED IN ANY AREA NOT DIRECTLY RELATED TO THE CONSTRUCTION WORKS OR AS NOTED ON THE DRAWINGS OTHER THAN REMOVAL OF TREES IDENTIFIED AS IN A HAZARDOUS CONDITION.
6. ALL STRIPPED TOPSOIL IS TO BE STORED IN AN APPROVED MANNER FOR REHABILITATION WORKS AND VEGETATION RESEEDING.
7. SURFACE REINSTATEMENT AND EROSION CONTROL.
   ALL DISTURBED AND BARE GROUND INCLUDING ALL CUT AND FILL SURFACES SHALL BE REHABILITATED AS FOLLOWS:
   REPLACE TOPSOIL WITH THAT RESERVED WHEN THE SITE WAS STRIPPED (50 THICK). RE-SEED ALL DISTURBED GROUND USING SEED MIX APPROVED BY THE SUPERINTENDENT.
8. 14/7mm TWO COAT SEAL TO BE IN ACCORDANCE WITH DEPARTMENT OF STATE GROWTH STANDARD SPECIFICATION R51 - BITUMINOUS SURFACING.
9. SUBGRADE CBR FOR ROAD PAVEMENTS AND FOOTPATHS TO BE A MINIMUM OF 5%
10. ALL PAVEMENT MARKING TO BE STANDARD PAINT IN ACCORDANCE WITH DEPARTMENT OF STATE GROWTH SPECIFICATION R64 - PAVEMENT MARKING.
11. TRAFFIC MANAGEMENT PLAN INDICATING HOW SAFE USE OF TASMAN HIGHWAY AND PITTWATER ROAD WILL BE MAINTAINED DURING CONSTRUCTION SHALL BE SUBMITTED PRIOR TO COMMENCEMENT OF WORK.
12. CONCRETE FOOTPATH TO BE CONSTRUCTED IN ACCORDANCE WITH LGAT STANDARD DRAWINGS TSD-R11-V1.
13. CONCRETE KERBS TO BE CONSTRUCTED IN ACCORDANCE WITH LGAT STANDARD DRAWINGS TSD-R14-V1.

SAFETY IN DESIGN (SiD)

SD1. SiD GENERALLY
THIS STRUCTURE HAS BEEN DESIGNED TO ELIMINATE HAZARDS TO HEALTH AND SAFETY WHEREVER POSSIBLE. WHERE THIS HAS NOT BEEN POSSIBLE, THE RISK TO HEALTH AND SAFETY OF PERSONS HAS BEEN MINIMISED TO BE REASONABLY PRACTICABLE FOR THE 100 YEAR DESIGN LIFE OF THE STRUCTURE.

SD2. WORK HEALTH AND SAFETY:
THE CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION OF THIS PROJECT IS CARRIED OUT UNDER A WORK HEALTH AND SAFETY CO-ORDINATION PLAN AND COMPLIANT WITH ANY 'SAFETY IN THE WORKPLACE LEGISLATION' APPLICABLE IN THE STATE IN WHICH THE WORK IS CARRIED OUT.

SD3. IDENTIFY HAZARDS:
THE CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE THAT ALL PERSONS WHO ENTER THE CONSTRUCTION SITE ARE MADE AWARE ABOUT THE RISK OF HAZARDS AND POTENTIAL HAZARDS WHICH MAY OCCUR ON THE SITE. ANY SUCH HAZARD SHALL BE ISOLATED AND CLEARLY IDENTIFIED. THE CORRECT LEVEL OF TRAINING SHALL BE MANDATORY BEFORE ANY PERSON ENTERS THE CONSTRUCTION AREA. ALL PERSONS SHALL WEAR THE APPROPRIATE SAFETY PROTECTION APPAREL SPECIFIED BY THE CONTRACTOR BEFORE ENTERING THE SITE. A QUALIFIED GUIDE SHALL ACCOMPANY ALL NEW CONSTRUCTION WORKERS DURING THEIR INITIATION AND ALL SITE VISITORS WHILE ON THE SITE.

GENERAL NOTES - SERVICES

1. ALL PRIVATE PLUMBING WORKS SHALL GENERALLY BE IN ACCORDANCE WITH THE AS3500, THE TASMANIAN PLUMBING CODE, THE PLUMBING CODE OF AUSTRALIA AND THE IPWEA MUNICIPAL STANDARD SPECIFICATION AND DRAWINGS AS APPLICABLE.
2. UNLESS NOTED OTHERWISE THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS FOR THE WORKS INCLUDING ANY WORKS IN THE ROAD RESERVATION AND ON ADJACENT PRIVATE PROPERTIES.
3. THE CONTRACTOR SHALL CONFIRM THE PRESENCE AND LOCATION OF ALL EXISTING SERVICES ON THE SITE AND WITHIN THE AREA OF WORKS AND CLEARLY IDENTIFY ALL DANGEROUS SERVICES UNDERGROUND AND OVERHEAD.
4. ALL DRAINS AND SERVICES TIE IN LEVELS AND LOCATIONS ARE TO BE CONFIRMED BEFORE COMMENCEMENT OF CONSTRUCTION WORKS.
5. UNLESS NOTED OTHERWISE ALL SERVICE CONNECTIONS TO COUNCIL OR WATER AUTHORITY SERVICE SHALL BE UNDERTAKEN BY THE COUNCIL OR WATER AUTHORITY AT THE CONTRACTOR'S COST.
6. ALL REDUNDANT SERVICE LINES SHALL BE CUT, GROUTED AND CAPPED AT TIE-IN LOCATIONS UNO.
7. REDUNDANT SERVICE TRENCHES SHALL BE BACKFILLED WHERE NOTED, WITH FULLY COMPACTED MATERIAL APPROPRIATE FOR THE AREA OF THE DEVELOPMENT SITE.
8. ALL UNDERGROUND WATER AND SEWER WORKS MUST BE TESTED AND INSPECTED BY TASWATER PRIOR TO BACKFILL.
9. ALL MATERIALS SHALL COMPLY WITH
   OPVC-O PIPE: AS 4441
   DICL AND DIEL PIPE: AS 2280
   CICL AND CIEL PIPE AND FITTINGS: AS 2544
   MSCL AND MSEL PIPE: AS 1479.
   PIPE MATERIALS: AS4130
   PIPE FITTINGS: AS 4129
   GATE VALVES: AS 2638
10. LOCATIONS AND LEVELS OF THE EXISTING PIPES ARE APPROXIMATE ONLY. THE CONTRACTOR IS TO LOCATE AND CONFIRM ALL SETOUT DIMENSIONS PRIOR TO FABRICATION.
11. BACKFILL AND REINSTATEMENT OF PIPE TRENCHES TO BE IN ACCORDANCE WITH WSAA SPS-1601 AND TASWATER REQUIREMENTS.
12. ON THE DRAWINGS, PIPE TYPES AND MATERIALS ARE SPECIFIED AS FOLLOWS
    PE100 DENOTES POLYETHYLENE PIPE WITH A MINIMUM REQUIRED STRENGTH OF 10 MPA AT 20°C IN ACCORDANCE WITH AS 4130 AND FITTINGS IN ACCORDANCE WITH AS 4129

SURVEY NOTES

THE SIZE AND ORIENTATION OF ALL SURVEY FEATURES LIKE PIT COVERS AND MANHOLES ARE SHOWN SYMBOLIC ONLY BASED ON SURVEY DATA PROVIDED. THE CONTRACTOR SHALL ENSURE MINIMUM CLEARANCE BETWEEN NEW WATER MAIN AND OTHER UTILITIES/STRUCTURES ARE ACHIEVED ON SITE.

SAFETY IN DESIGN (SiD)

SD4. TEMPORARY SUPPORT REQUIRED:
SOIL AND ROCK EXCAVATION
CONCRETE FORMWORK TO FACILITATE CONCRETE PLACEMENT
STATIC OR OPERATING PLANT AND EQUIPMENT
STORED MATERIALS

SD5. SPECIALIST CONTRACTOR:
SOME ACTIVITIES REQUIRED TO BE CARRIED OUT DURING THE CONSTRUCTION ARE NOT CONSIDERED TO BE NORMAL BUILDING PRACTICE. THEREFORE ENGAGEMENT OF A SPECIALIST CONTRACTOR, IS EXPECTED TO BE NECESSARY FOR THE FOLLOWING ACTIVITIES, BUT NOT LIMITED TO:

LIFTING AND PLACEMENT OF HEAVY ELEMENTS
USE OF HEAVY EQUIPMENT
DEMOLITION WORKS
DRILLING
ANCHOR INSTALLATION
WORK OVERHEAD ELECTRICAL EQUIPMENT.
EXCAVATION NEAR: - PRESSURISED WATER MAINS

WATER SERVICES NOTES:

WATER SUPPLY

1. WORKS IN GENERAL TO BE CARRIED OUT IN ACCORDANCE WITH: - WSA 03-2011-3.1, MRWA VERSION 2.0 - TASWATER'S SUPPLEMENT TO WSAA WATER SUPPLY CODE - PIPE SUPPLIER'S INSTALLATION MANUAL AND SPECIFICATIONS
2. PN DENOTES THE NOMINAL PRESSURE RATING OF THE WATER SERVICE. ALL PIPES AND ASSOCIATED FITTINGS SHALL BE PN25 UNLESS NOTED OTHERWISE
3. DN DENOTES THE NOMINAL DIAMETER FOR THE WATER SERVICE OR FITTING. FOR POLYETHYLENE PIPES, THIS REFERS TO THE OUTSIDE DIAMETER OF THE PIPE. FOR ALL OTHER PIPES IT REFERS TO THE NOMINAL BORE OF THE PIPE.
4. ON THE DRAWINGS, PIPE JOINTS ARE SPECIFIED AS FOLLOWS
   FL DENOTES FLANGED JOINTS IN ACCORDANCE WITH AS 4087 WITH PN TO MATCH PIPE MATERIAL. REFER MRWA-W-306B
   CF DENOTES COMPRESSION FITTING FOR ALL METRIC POLYETHYLENE PIPE MANUFACTURED TO AS4130
   SP-SOC DENOTES SPIGOT SOCKET JOINTS USING RUBBER RINGS
   SSJ DENOTES SPHERICAL SLIP JOINTS WITH 6 MM FILLET WELDS IN ACCORDANCE WITH MRWA-W-400
   WC DENOTES PLAIN END WELDED COLLAR JOINT IN ACCORDANCE WITH MRWA-W-400
   BWJ DENOTES BUTT WELDED JOINT FOR POLYETHYLENE PIPES
   EFC DENOTES ELECTRO FUSION COUPLING FOR POLYETHYLENE PIPES
5. AIR RELEASE VALVES: ARE TO BE IN ACCORDANCE WITH AS 4956 AND INSTALLED IN ACCORDANCE WITH THE DRAWINGS.
6. TB DENOTES THRUST BLOCK IN ACCORDANCE WITH THE DRAWINGS
7. UNLESS NOTED OTHERWISE, ALL THRUST BLOCKS SHALL BE SUITABLE FOR 1500 kPa PRESSURE AND SOIL SAFE BEARING CAPACITY OF 100 KPA, AND CONSTRUCTED IN ACCORDANCE WITH DRGS TW-W-300 AND MRWA -W-205A. TIMBER BLOCKS ARE NON PREFERRED.
8. FOR CHANGES IN HORIZONTAL AND VERTICAL ALIGNMENT GREATER THAN 1 DEGREE FOR SPIGOT SOCKET JOINTS PROVIDE BENDS OR DISTRIBUTE THE CHANGE IN ALIGNMENT OVER SEVERAL PIPE LENGTHS. REFER DRGS MRWA-W-103 AND MRWA-W-212
9. THE CONTRACTOR SHALL PROVIDE TRENCH STOPS FOR PIPES LAID AT GRADES BETWEEN 5% AND 20% AS PER THE REQUIREMENTS OF DRGS MRWA-W-208 AND MRWA-W-209..
10. THE CONTRACTOR SHALL PROVIDE CONCRETE BULKHEADS FOR PIPES LAID AT GRADES GREATER THAN 20% AS PER THE REQUIREMENTS OF DRGS MRWA-W-208 AND MRWA-W-209
11. WHERE MINIMUM COVER CANNOT BE ACHIEVED SUCH AS CROSSINGS OF EXISTING ASSETS SEEK DIRECTION FROM TASWATER.
12. ALL MATERIALS ARE TO COMPLY WITH CITY WEST WATER APPROVED PRODUCTS PUBLICATION.
13. DETECTOR TAPE / DETECTOR WIRE IS TO BE INSTALLED OVER ALL NON-METALIC WATER MAINS.
14. MARKER POSTS TO BE INSTALLED IN ACCORDANCE WITH TASWATER STANDARDS REFER TW-W-311 AND TW-W-312.
15. TEST PROCEDURE
    TO BE TESTED AS PER;
    'WATER SUPPLY CODE OF AUSTRALIA - WSA 03-2011-3.1 MRWA EDITION 2.0 PART 2 - CONSTRUCTION' CLAUSE 19.4
    TEST PRESSURE 1500 kPa (AT LOWEST POINT)
    TO BE CONDUCTED WITH TASWATER REPRESENTATIVE PRESENT
16. FOLLOWING A SATISFACTORY HYDROSTATIC PRESSURE TEST ALL WATER MAINS TO BE DISINFECTED PRIOR TO COMMISSIONING IN ACCORDANCE WITH MRWA WATER QUALITY COMPLIANCE SPECIFICATION No. 04-02-2.1. NOTE TASWATER DOES NOT NECESSARILY REQUIRE MAINS TO BE SWABBED HOWEVER THIS MAY BE REQUIRED TO MEET THE WATER QUALITY TESTING.

INSTALLATION AND COMMISSIONING NOTES:

1. THE GENERAL SCOPE IS TO PERFORM WORKS FOR EACH STAGE AS FOLLOWS - REFER NOTES AND REFERENCED STANDARDS FOR FURTHER DETAIL:
   a. FAMILIARISATION OF WORKS AREA AND REQUIREMENTS AS PER PLANS, LONGITUDINAL SECTIONS, DETAILS AND NOTES
   b. CONFIRM SERVICE LEVELS AT CROSSING LOCATIONS, AS NOTED ON DRAWINGS
   c. INSTALL NEW WATER MAIN, AS PER DRAWINGS, BETWEEN THE POINTS AS PER NOMINATED TIE-IN DETAILS (LIMIT OF WORK PRIOR TO TIE-IN), INCLUDING NEW VALVES, FITTINGS AND THRUST RESTRAINTS, AND BLANK ENDS
   d. WAIT FOR THRUST BLOCK CONCRETE TO CURE
   e. FILL PIPE USING HYDRANTS AND PRESSURE TEST (REFER WATER SUPPLY NOTE 15)
   f. UNDERTAKE DISINFECTION AND DISPOSE OF WATER AS DIRECTED BY SUPERINTENDENT (REFER WATER SUPPLY NOTE 16)
   g. UNDERTAKE TIE-IN WORKS AS PER TIE-IN DETAILS DURING SHUTDOWN PERIOD, INCLUDING RECONNECTING ALL PROPERTY CONNECTIONS AND SUB-MAINS WITHIN THE STAGE
   h. GROUT FILL REDUNDANT WATER MAIN SECTION(S) AT TIE-IN LOCATIONS, AND CAP (REFER GENERAL SERVICES NOTE 6 AND 7).

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No.	Amendment Description	Initials	Date

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Tasmanian Government

DESIGNED

REVIEWED

Department of State Growth
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS
GENERAL NOTES

CONTRACT No.	DRAWING	PRINTED DATE
3148	HB19197-C1250	06-Oct-22, 4:25 PM

REGISTRATION NUMBER
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SHEET No.
1250
REVISION

GENERAL

G1. THESE DRAWINGS SHALL BE READ IN CONJUNCTION WITH THE SPECIFICATION, STRUCTURAL, CIVIL AND RELEVANT ENGINEERING SERVICES, DOCUMENTS AND WITH OTHER SUCH WRITTEN INSTRUCTIONS AS MAY BE ISSUED.

G2. ALL DIMENSIONS SHOWN SHALL BE VERIFIED ON SITE. ENGINEER'S DRAWINGS MUST NOT BE SCALED.

G3. DURING CONSTRUCTION THE RESPONSIBLE CONTRACTOR SHALL MAINTAIN THE STRUCTURE IN A STABLE CONDITION AND NO PART SHALL BE OVERSTRESSED.

G4. ALL MATERIALS AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE WSAA STANDARD SPECIFICATION WATER SUPPLY CODE OF AUSTRALIA WSA 03-2011-3.1 MRWA EDITION V2.0 AND TASWATER'S SUPPLEMENT.

G5. UNLESS OTHERWISE NOTED ALL DIMENSIONAL UNITS ARE MILLIMETRES EXCEPT REDUCED LEVELS AND DISTANCES (CHAINAGES) WHICH ARE METRES.

G6. ALL COORDINATES ARE IN METRES UNO.

G7. UNO DENOTES UNLESS NOTED OTHERWISE.

G8. ALL DIMENSIONS WHICH TIE INTO OR OTHERWISE RELATE TO EXISTING STRUCTURES SHALL BE VERIFIED ON SITE PRIOR TO THE START OF CONSTRUCTION BY THE CONTRACTOR.

G9 SITE SET-OUT IS NOT BASED ON ANY DETAILED SURVEY.

G10. ANY DISCREPANCIES WITHIN PROJECT DOCUMENTATION SHALL BE REFERRED TO THE SUPERINTENDENT FOR RESOLUTION.

FOUNDATION

F1. FOOTINGS HAVE BEEN DESIGNED FOR AN ALLOWABLE BEARING PRESSURE OF '100kPa' AT FOUNDING LEVELS UNO .THE CONTRACTOR SHALL OBTAIN THE ENGINEER'S APPROVAL OF THE FOUNDATION MATERIAL BEFORE PLACING CONCRETE.

F2. AFTER EXCAVATION ENSURE THAT ALL LOOSE GRAVEL, SOIL OR DEBRIS IS REMOVED BEFORE PLACING CONCRETE.

F3. IN ALL EXCAVATIONS FOR FOOTINGS > 400 WIDE PLACE BLINDING CONCRETE IN A SEPARATE POUR, MINIMUM 65 THICK.

EXCAVATION AND BACKFILL

E1. ALL EXCAVATION SHALL BE CARRIED OUT IN SUCH A MANNER AS TO PRESERVE UNDISTURBED CONDITIONS AT THE UNDERSIDE OF FOOTINGS.

E2. ALL FOOTINGS SHALL BE CONSTRUCTED ON UNDISTURBED OR COMPACTED FILL FOUNDATION MATERIAL WITH A SAFE BEARING CAPACITY AS SHOWN IN FOUNDATIONS NOTE 'F1' AND TO THE APPROVAL OF THE ENGINEER.

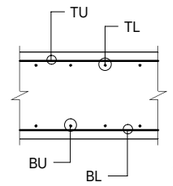
E3. IF FOOTING EXCAVATIONS ARE LOWER THAN THOSE SHOWN ON DESIGN DRAWINGS. THE OVER EXCAVATION SHALL BE BACKFILLED WITH COMPACTED FOUNDATION MATERIAL AS PER NOTE 'E3' ABOVE.

E4. FINISHED EARTHWORK SLOPES SHALL NOT BE STEEPER THAT 2 HORIZONTAL AND 1 VERTICAL U.N.O.

E5. APPROVED BACKFILL MATERIAL SHALL BE PLACED UNIFORMLY AROUND ALL FOOTING SIDES IN 200 MAXIMUM LOOSE LAYERS AND COMPACTED IN ACCORDANCE WITH SPECIFICATION.

CONCRETE REINFORCEMENT ABBREVIATIONS

CP	CENTRALLY PLACED
EW	EACH WAY
EF	EACH FACE
NF	NEAR FACE
FF	FAR FACE
LV	LENGTH VARIES
B	BOTTOM REINFORCEMENT
BL	BOTTOM REINFORCEMENT LOWER LEVEL
BU	BOTTOM REINFORCEMENT UPPER LEVEL
T	TOP REINFORCEMENT
TL	TOP REINFORCEMENT LOWER LEVEL
TU	TOP REINFORCEMENT UPPER LEVEL



REINFORCEMENT LAYERING

CONCRETE AND OTHER ABBREVIATIONS

CJ	CONTROL JOINT
DJ	DOWELLED JOINT
SJ	SAWCUT JOINT
TOC	TOP OF CONCRETE
FCR	FINE CRUSHED ROCK
SOP	SET OUT POINT

(150) SLAB THICKNESS (=150mm)
OTHER ABBREVIATIONS COMPLY WITH AS1100

CONCRETE

C1. ALL WORKMANSHIP AND MATERIAL SHALL BE IN ACCORDANCE WITH THE SPECIFICATION AND AS3600. USE GENERAL PURPOSE CEMENT AND NORMAL WEIGHT AGGREGATES UNO. DO NOT USE ADDITIVES WITHOUT APPROVAL.

C2. CONCRETE QUALITY SHALL BE AS FOLLOWS (U.N.O):

ITEM	CHARACTERISTIC CONCRETE STRENGTH f'c (MPa)
GENERAL	32
PAD AND STRIP FOOTINGS	N/A
PRECAST CONCRETE	N/A
FOOTING - PIER	N/A
PEDESTALS	N/A
BLINDING	N/A

C3. UNLESS SPECIFIED UNABBREVIATED TO AS4671 ALL REINFORCEMENT ON THIS PROJECT IS DESIGNATED AS FOLLOWS:

SYMBOL	DESCRIPTION	TYPE
SL	MESH - SQUARE GRID	D500L TO AS4671
RL	MESH - RECTANGULAR GRID	D500L TO AS4671
TM	TRENCH MESH	D500L TO AS4671
R	PLAIN BARS	R250N TO AS4671
S	DEFORMED BARS	D250N TO AS4671
N	DEFORMED BARS	D500N TO AS4671

DESIGNATION EXAMPLE

SL82	REINFORCING MESH	D500L 8 DIA. RIBBED BARS AT 200 CRS
4-L12TM	TRENCH MESH	D500L 4 No 12 DIA. RIBBED BARS. (300 WIDE)
4-R10-300	PLAIN BARSR	250N 4 No 10 DIA. BARS AT 300 CRS
4-S12-300	DEFORMED BARS	D250N 4 No 12 DIA. BARS AT 300 CRS
4-N16-200 T	DEFORMED BARS	D500N 4 No 16 DIA. BARS AT 200 CRS TOP

NOTE: NUMBER OR SPACING SPECIFIED - GENERALLY NOT BOTH

C4. CLEAR COVER TO REINFORCEMENT (INCLUDING FITMENTS) SHALL BE AS FOLLOWS UNO.

CAST AGAINST BUILDING OR FORMWORK	:	50
CAST AGAINST GROUND PROTECTED BY WATERPROOF MEMBRANE	:	50
CAST AGAINST GROUND NOT PROTECTED BY WATERPROOF MEMBRANE	:	50
CAST AGAINST BLINDING CONCRETE	:	50
TOP COVER	:	50

C5. SIZES OF CONCRETE ELEMENTS DO NOT INCLUDE THICKNESS OF ANY APPLIED FINISHES.

C6. BEAM DEPTHS ARE NOTED FIRST AND INCLUDE THE THICKNESS OF THE SLAB IF ANY.

C7. CONSTRUCTION JOINTS WHERE NOT SHOWN ON THE DRAWINGS SHALL BE LOCATED TO THE APPROVAL OF THE ENGINEER, JOINTS TO BE SEALED WITH 'NITROSEAL 280' OR EQUIVALENT.

C8. FORMS SHALL BE CHAMFERED FOR RE-ENTRANT ANGLES AND FILLETED FOR CORNERS. WHERE THESE WILL BE EXPOSED TO VIEW IN THE COMPLETED PROJECT THE FACE OF THE BEVEL IN EACH CASE SHALL BE 25 WIDE UNO.

C9. NO HOLES, CHASES OR EMBEDMENTS OF PIPES OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS SHALL BE MADE WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

C10. NO ALLOWANCE HAS BEEN MADE FOR STACKED MATERIALS ON THE CONCRETE STRUCTURE UNO.

C11. CONCRETE FLOOR FINISH SHALL BE MONOLITHIC, STEEL TROWEL FINISH INTERNAL AND BROOM FINISH EXTERNAL UNO.

C12. NO REINFORCEMENT SPLICES SHALL BE MADE IN POSITIONS OTHER THAN THOSE SHOWN ON THE STRUCTURAL DRAWINGS WITHOUT THE PRIOR APPROVAL OF THE ENGINEER.

C13. MINIMUM LAP FOR FABRICS SHALL BE TWO TRANSVERSE WIRES PLUS 25. MINIMUM LAP LENGTHS FOR DEFORMED BARS SHALL BE IN ACCORDANCE WITH AS3600 UNO.

C14. WELDING OF REINFORCEMENT IS NOT PERMITTED UNLESS SHOWN ON THE DRAWINGS OR APPROVED BY THE ENGINEER.

C15. TOP AND BOTTOM REINFORCEMENT IN SLABS SHALL BE SUPPORTED ON APPROVED PLASTIC TIPPED CHAIRS, IN BOTH DIRECTIONS AT MAXIMUM CENTRES OF ;
600 FOR 10 DIA. BARS,
900 FOR 12 AND 16 DIA. BARS,
1200 FOR 20 DIA. BARS
750 CENTRES FOR MESH.

C16. ALL FORMWORK AND PROPS UNDER SUSPENDED CONCRETE WORK SHALL BE REMOVED BEFORE ANY BRICKWORK OR BLOCKWORK IS BUILT ABOVE.

CONCRETE (CONTINUED)

C17. THE MINIMUM CLEAR SPACING BETWEEN CONDUITS, CABLES, PIPES AND BARS SHALL BE AS REQUIRED BY AS3600 BUT NOT LESS THAN THREE DIAMETERS HORIZONTALLY FOR HORIZONTAL CONDUITS ETC. IN SLABS WALLS AND FOOTINGS AND NOT LESS THAN ONE DIAMETER FOR ALL OTHER CONDUITS ETC.

C18. BARS SHALL BE LAPPED AS FOLLOWS UNLESS NOTED OTHERWISE:

MINIMUM LAP LENGTHS				
BAR	<300 CONCRETE DEPTH (UNDER LAP)		>300 CONCRETE DEPTH (UNDER LAP)	
N12	385	350	500	450
N16	600	525	775	700
N20	850	750	1100	975
N24	1100	1000	1450	1285
N28	-	-	-	-
CONCRETE	N32	N40	N32	N40

✳ THE CONCRETE DEPTH IS MEASURED BELOW THE BAR LAP
✳ THE NOTED LAP LENGTHS RELATE TO GRADE 32/40 CONCRETE AT Cd = 40mm. CONSULT THE ENGINEER FOR BAR LAPS IN OTHER CONCRETE GRADES.

C19. THE LAP LENGTH OF BUNDLED BARS SHALL BE INCREASED FROM THE VALUES SHOWN IN THE TABLE AS FOLLOW:
3 BAR BUNDLE - 20%
4 BAR BUNDLE - 33%.

C20. INDIVIDUAL BARS WITHIN A BUNDLE SHALL BE TERMINATED AT DIFFERENT POINTS STAGGERED BY AT LEAST 40 TIMES THE DIAMETER OF THE LARGER BAR.

C21. LAPS IN REINFORCEMENT SHALL BE STAGGERED SO THAT NO MORE THAN 50% OF BARS ARE LAPPED IN ANY ONE CROSS SECTION AND THAT NO TWO ADJACENT BARS ARE LAPPED AT THE SAME LOCATION.

C22. WHERE STAGGERED BAR SPLICES ARE NOT POSSIBLE, THE MINIMUM LAP LENGTH SHALL NOT BE LESS THAN 1.3 TIMES THE THE STANDARD LAP LENGTH OR AS SHOWN ON THE DRAWINGS, WHICHEVER IS GREATER.

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No.	Amendment Description	Initials	Date
A	FOR APPROVAL	BWH	04/07/2022

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REVIEWED .-.....

Department of State Growth
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

RPZD GENERAL NOTES SHEET 1 OF 2

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-S1251	4/07/2022 4:40:54 PM	1251

REGISTRATION NUMBER
A0113.028

REVISION A

STRUCTURAL STEELWORK

S1. ALL STEEL, STEELWORK, CONNECTIONS AND CORROSION PROTECTION OF STEELWORK SHALL BE IN ACCORDANCE WITH THE NOTES, SPECIFICATION AND AS4100.

S2. ALL STEELWORK SHALL BE GRADE 250 EXCEPT USE GRADE 450 FOR COLD FORMED LIGHT GRADE SECTIONS, GRADE 350 FOR HOLLOW SECTIONS, AND GRADE 300 FOR HOT ROLLED SECTIONS, UNO.

S3. BOLT TYPES SHALL BE AS FOLLOWS:

4.6/S	HEXAGON HEAD BOLTS TO AS1111.1, SNUG TIGHTENED
8.8/S	HIGH STRENGTH STRUCTURAL BOLTS, WITH BOLT, NUTS AND HARDENED WASHERS TO AS4100, SNUG TIGHTENED
8.8/TB	HIGH STRENGTH STRUCTURAL BOLTS AS ABOVE, FULLY TENSIONED TO AS4100 IN A BEARING TYPE JOINT
8.8/TF	HIGH STRENGTH STRUCTURAL BOLTS AS ABOVE, FULLY TENSIONED TO AS4100 IN A FRICTION TYPE JOINT AND WITH FAYING SURFACES LEFT UNCOATED, UNO.

BOLTS SHALL BE 4.6/S UNLESS NOTED OTHERWISE.

DESIGNATION EXAMPLE 6 M20 8.8/S.

S4. ALL CONNECTIONS SHALL BE SHOP DETAILED IN ACCORDANCE WITH THE SPECIFIED CONNECTION TYPES ON EACH OF THE STEELWORK FRAMING DRAWINGS. THE CONNECTIONS SHALL BE IN ACCORDANCE WITH THE STANDARD CONNECTION DETAIL DRAWINGS UNLESS NOTED OTHERWISE ON THE FRAMING DRAWINGS.

S5. ALL DETAILS, GAUGE LINE ETC, WHERE NOT SPECIFICALLY SHOWN ARE TO BE IN ACCORDANCE WITH ASI DESIGN CAPACITY TABLES FOR STRUCTURAL STEEL AND ASI STANDARDISED STRUCTURAL CONNECTIONS.

S6. THE MINIMUM CONNECTION REQUIREMENTS SHALL BE AS FOLLOWS:
PURLINS AND GIRTS - 2 PBM12 OR 2 M16 4.6/S BOLTS WITH A 8 PLATE CLEAT UNO
SECTIONS < 210 DEEP - 2 M16 8.8/S BOLTS WITH A 8 PLATE CLEAT UNO
SECTIONS > 220 DEEP - 2 M20 8.8/S BOLTS WITH A 10 PLATE CLEAT, UNO.

S7. BOLT HOLES IN STEEL TO STEEL, AND STEEL TO CONCRETE CONNECTIONS SHALL BE BOLT DIAMETER PLUS 2mm AND BOLT DIAMETER PLUS 6mm FOR BASE PLATES UNO.

S8. ALL HOLDING DOWN BOLTS SHALL BE EITHER COMMERCIAL BOLTS OR BE MADE FROM MILD STEEL BARS WITH A MINIMUM 'fsy = 250 MPa' UNO.

S9. E41XX ELECTRODES SHALL BE USED FOR ALL WELDS ON GRADE 250 STEELWORK. E48XX ELECTRODES SHALL BE USED FOR ALL WELDS ON ≥ GRADE 300 STEELWORK. LOW HYDROGEN ELECTRODES ARE RECOMMENDED.

S10. WELDS SHALL BE 6 CFW (UNO) CATEGORY SP (AS DEFINED IN AS1554.1) REFER TO THE DRAWINGS FOR WELD CATEGORY GP LOCATIONS.

S11. HOT DIP GALVANISE STEELWORK AS NOTED ON THE DRAWINGS.

S12. HOT DIP GALVANISED STEEL SHALL BE SUITABLY PREPARED FOR GALVANISING. THE PREPARATION SHALL INCLUDE GRIT BLASTING TO CLASS 2.5, AS1627.4.

S13. ALL FULLY SEALED HOLLOW OR BOX SECTIONS CONTAINING TOTALLY ENCLOSED AREAS MUST BE VENTED NEAR EACH END WHEN THE MEMBER IS TO BE GALVANISED. THE MINIMUM DIAMETER OF THE VENT HOLE IS TO BE 25% OF THE INTERNAL DIAMETER OR DIAGONAL DIMENSION FOR SECTIONS UP TO 150. FOR LARGER MEMBERS VENTING DETAILS SHALL BE PROVIDED BY THE GALVANISER FOR THE APPROVAL OF THE ENGINEER PRIOR TO GALVANISING.

S14. PRIOR TO BOLTING PLATES AGAINST OR SITE WELDING PLATES TO EXISTING STEELWORK, ALL CONTACT AREAS SHALL HAVE CORROSION AND EXISTING LOOSE PAINT ETC REMOVED TO EXPOSE CLEAN BASE METAL. THIS SHALL BE ACHIEVED WITH A PROCESS TO MATCH THE NEW STEELWORK IF THIS IS PRACTICABLY FEASIBLE.

S15. ALL BOLTS SHALL BE HOT DIP GALVANISED U.N.O.

S16. AFTER TIGHTENING, EXPOSED FACES OF NUTS, BOLTS AND WASHERS SHALL BE PREPARED AND COATED AS SPECIFIED OR AS FOR ADJACENT WORK.

STRUCTURAL STEELWORK (CONTINUED)

S20. THE CONTRACTOR SHALL PREPARE AND SUBMIT 3 COPIES OF ALL WORKSHOP DRAWINGS TO THE ENGINEER FOR APPROVAL. FABRICATION SHALL NOT COMMENCE UNTIL APPROVAL HAS BEEN OBTAINED.

S21. REFER TO THE SPECIFICATION FOR PREPARATION, PRIMING AND FINISH COATS ON EXTERNAL STEELWORK. IF NO SPECIFICATION IS AVAILABLE ALLOW TO PREPARE THE STEELWORK BY CLEANING WITH POWER TOOLS TO AS1627.2 AND PROTECT WITH ONE COAT OF ZINC PHOSPHATE PRIMER (MIN 50 MICRONS DFT), UNO.

STEELWORK ABBREVIATIONS

ALL DRAWING ABBREVIATIONS CONFORM TO AS1101 UNO.

ADDITIONAL ABBREVIATIONS ARE:

BS	BOTH SIDES
CFW	CONTINUOUS FILLET WELD
CONTS	CONTINUOUS
MS	MILD STEEL
PL	PLATE
FSBW	FULL STRENGTH BUTT WELD (CATEGORY SP)
TOS	TOP OF STEEL
TOP	TOP OF PLATE
TOG	TOP OF GRATE

SITE SAFETY

SS1. ALL WORK SITES CAN BE POTENTIALLY HAZARDOUS TO PEOPLE, PROPERTY AND EQUIPMENT. ALL PEOPLE WHO ARE AUTHORISED TO BE ON A WORK SITE MUST CAREFULLY CONSIDER, DOCUMENT AND ADOPT SUITABLE SAFE WORK PROCEDURES FOR ALL REQUIRED ACTIVITIES.

SS2. CURRENT LEGISLATION:
CURRENT LEGISLATION REQUIRES THAT ALL PERSONS ARE TO CONSIDER THEIR ACTIONS OR INACTION ON THE HEALTH AND SAFETY OF OTHERS AND THEMSELVES.

SS3. THE CONTRACTOR SHALL ABIDE WITH AND IS BOUND BY THE CURRENT SAFE WORK AUSTRALIA ACT, REGULATIONS AND CODES OF PRACTICE ISSUED BY STATE GOVERNMENTS AND / OR THEIR AGENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE IMPLEMENTATION, DOCUMENTATION AND MAINTENANCE OF WORK SAFETY PROCEDURES AND OTHER RELEVANT DOCUMENTATION. THE CONTRACTOR SHALL ENSURE THAT ALL SUB CONTRACTORS AND OTHER AUTHORISED PEOPLE COMPLY WITH THE ABOVE.

SS4. THE CONTRACTOR SHALL BE ALERT AND PROACTIVE TO IDENTIFY HAZARDS AND MANAGE THE ASSOCIATED RISKS TO ELIMINATE THEM OR MINIMISE THEM TO AN AGREED RISK LEVEL.

SS5. THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IF THERE IS ANY PERCEIVED RISK RELATING TO THE DESIGN OR CONSTRUCTION OF THE DESIGN. THE CONTRACTOR SHALL ENGAGE SUITABLY QUALIFIED ENGINEERS TO CERTIFY ALL TEMPORARY STRUCTURAL WORKS.

SS6. THE CONTRACTOR SHALL ENGAGE WITH THE SUBCONTRACTOR AND OTHER AUTHORISED PEOPLE WHO USE THE SITE TO IDENTIFY THEIR RISKY WORK PROCEDURES AND OTHER ACTIVITIES.

SS7. SUBCONTRACTORS AND OTHER AUTHORISED PEOPLE SHALL PROVIDE DOCUMENTATION ABOUT THEIR RISK ASSESSMENTS AND RISK MINIMISATION.

SS8. PUBLIC SAFETY:
A LIVE SITE THAT HAS WORK UNDERWAY OR IS UNATTENDED HAS A STRONG ATTRACTION TO THE PUBLIC IN GENERAL. THE CONTRACTOR SHALL TAKE ALL REASONABLE PRECAUTIONS TO PREVENT UNAUTHORISED PEOPLE ENTERING THE SITE. EXCAVATIONS, STRUCTURES AND ACCESS EQUIPMENT SHALL BE LEFT IN A SECURE MANNER AS IS REASONABLY PRACTICABLE TO PREVENT ANY UNAUTHORISED PEOPLE FROM ENTERING, CLIMBING OR FALLING. THE SITE SHALL HAVE CLEAR WARNING SIGNS IN APPROPRIATE LOCATIONS, E.G. - "DANGER KEEP OUT" AND BE SECURELY BARRICADED AND WHEN UNATTENDED LEFT IN A LOCKED CONDITION AS IS REASONABLY PRACTICABLE.

SS9. SPECIFIC ATTENTION SHALL BE PAID TO RISKY ACTIVITIES INCLUDING BUT NOT LIMITED TO:
SITE ESTABLISHMENT
DEMOLITION, RECYCLING AND REMOVAL
TEMPORARY WORKS
EXCAVATION AND TRENCHING - UNSTABLE GROUND
WELDING - EYE PROTECTION
CONSTRUCTION PROCESSES
TRIPS AND FALLS (GENERAL]
UNSTABLE TEMPORARY FOOTINGS
WORKING AT HEIGHT.

SAFETY IN DESIGN (SiD)

SD1. SiD GENERALLY
THIS STRUCTURE HAS BEEN DESIGNED TO ELIMINATE HAZARDS TO HEALTH AND SAFETY WHEREVER POSSIBLE. WHERE THIS HAS NOT BEEN POSSIBLE, THE RISK TO HEALTH AND SAFETY OF PERSONS HAS BEEN MINIMISED TO BE REASONABLY PRACTICABLE FOR THE 50 YEAR DESIGN LIFE OF THE STAGE STRUCTURE.

SD2. WORK HEALTH AND SAFETY:
THE CONTRACTOR SHALL ENSURE THAT THE CONSTRUCTION OF THIS PROJECT IS CARRIED OUT UNDER A WORK HEALTH AND SAFETY CO-ORDINATION PLAN AND COMPLIANT WITH ANY 'SAFETY IN THE WORKPLACE LEGISLATION' APPLICABLE IN THE STATE IN WHICH THE WORK IS CARRIED OUT.

SD3. IDENTIFY HAZARDS:
THE CONTRACTOR SHALL MAKE EVERY EFFORT TO ENSURE THAT ALL PERSONS WHO ENTER THE CONSTRUCTION SITE ARE MADE AWARE ABOUT THE RISK OF HAZARDS AND POTENTIAL HAZARDS WHICH MAY OCCUR ON THE SITE. ANY SUCH HAZARD SHALL BE ISOLATED AND CLEARLY IDENTIFIED. THE CORRECT LEVEL OF TRAINING SHALL BE MANDATORY BEFORE ANY PERSON ENTERS THE CONSTRUCTION AREA. ALL PERSONS SHALL WEAR THE APPROPRIATE SAFETY PROTECTION APPAREL SPECIFIED BY THE CONTRACTOR BEFORE ENTERING THE SITE. A QUALIFIED GUIDE SHALL ACCOMPANY ALL NEW CONSTRUCTION WORKERS DURING THEIR INITIATION AND ALL SITE VISITORS WHILE ON THE SITE.

SD4. STABILITY OF THE STRUCTURE:
TEMPORARY MEASURES ARE REQUIRED DURING CONSTRUCTION AND DEMOLITION TO ENSURE THE STABILITY OF THE STRUCTURE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR AND THE CONTRACTOR'S ERECTION DESIGN ENGINEER TO TAKE ALL MEASURES NECESSARY TO MAINTAIN STRUCTURAL INTEGRITY DURING ALL PHASES OF DECONSTRUCTION AND CONSTRUCTION. TEMPORARY SUPPORT IS EXPECTED TO BE NECESSARY.

SD5. TEMPORARY SUPPORT REQUIRED:
SOIL AND ROCK EXCAVATION
CONCRETE FORMWORK TO FACILITATE CONCRETE PLACEMENT
STRUCTURAL STEEL FRAMING
TIMBER FRAMING
STATIC OR OPERATING PLANT AND EQUIPMENT
STORED MATERIALS
STABILITY OF THE EXISTING STRUCTURE.

SD6. SPECIALIST CONTRACTOR:
SOME ACTIVITIES REQUIRED TO BE CARRIED OUT DURING THE CONSTRUCTION

ARE NOT CONSIDERED TO BE NORMAL BUILDING PRACTICE. THEREFORE ENGAGEMENT OF A SPECIALIST CONTRACTOR, IS EXPECTED TO BE NECESSARY FOR THE FOLLOWING ACTIVITIES, BUT NOT LIMITED TO

LIFTING AND PLACEMENT OF HEAVY ELEMENTS
USE OF HAZARDOUS MATERIALS
USE OF HEAVY EQUIPMENT
DEMOLITION WORKS
MOVING MASS CONCRETE BLOCKS
ACCESS USING WORK PLATFORMS, STEPS, FALL ARREST SYSTEMS AND LADDERS
DRILLING
ANCHOR INSTALLATION
WORK NEAR LIVE EQUIPMENT, INCLUDING ELECTRICAL EQUIPMENT.

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A	FOR APPROVAL	BWH	04/07/2022

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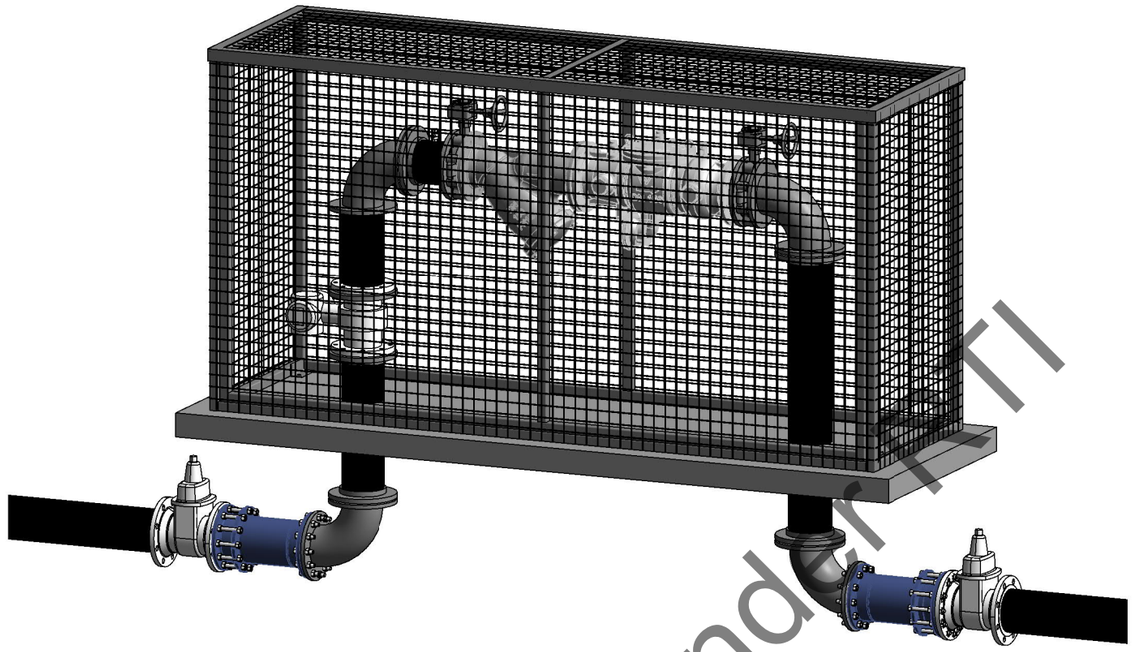
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

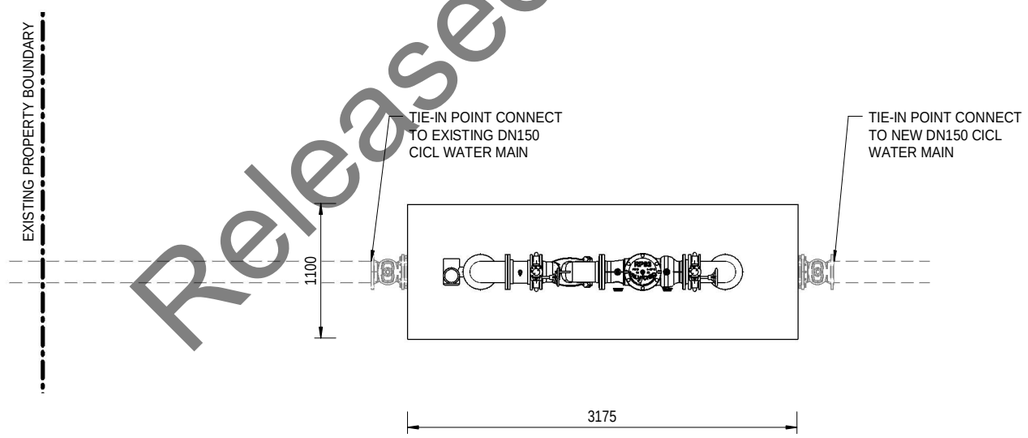
RPZD GENERAL NOTES SHEET 2 OF 2

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-S1252	4/07/2022 4:40:54 PM	1252

REGISTRATION NUMBER
A0113.028

REVISION A





SITE PLAN
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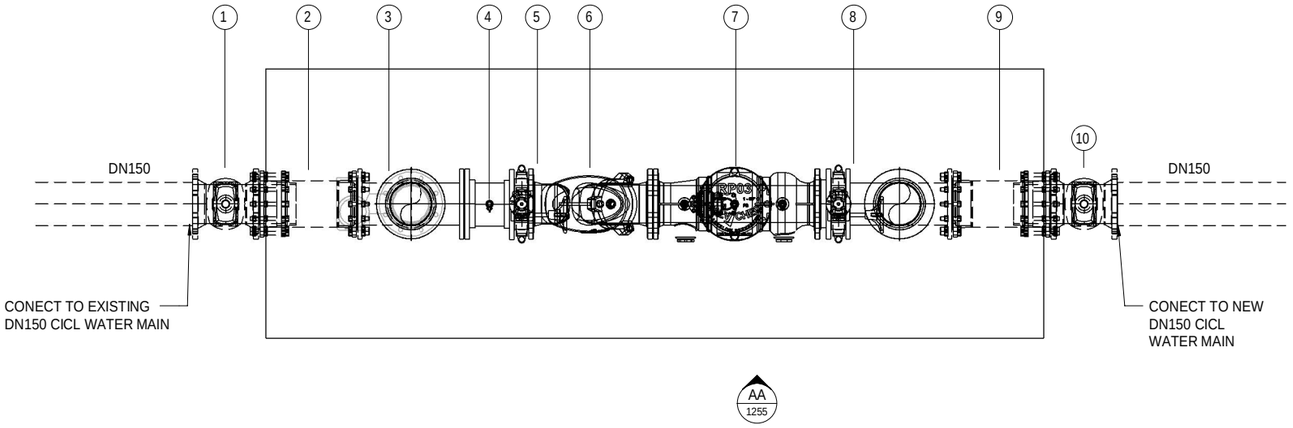
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

GOLF COURSE RPZD DETAIL - LOCALITY AND SITE PLAN

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-S1253	4/07/2022 4:40:55 PM	1253

REGISTRATION NUMBER
A0113.028

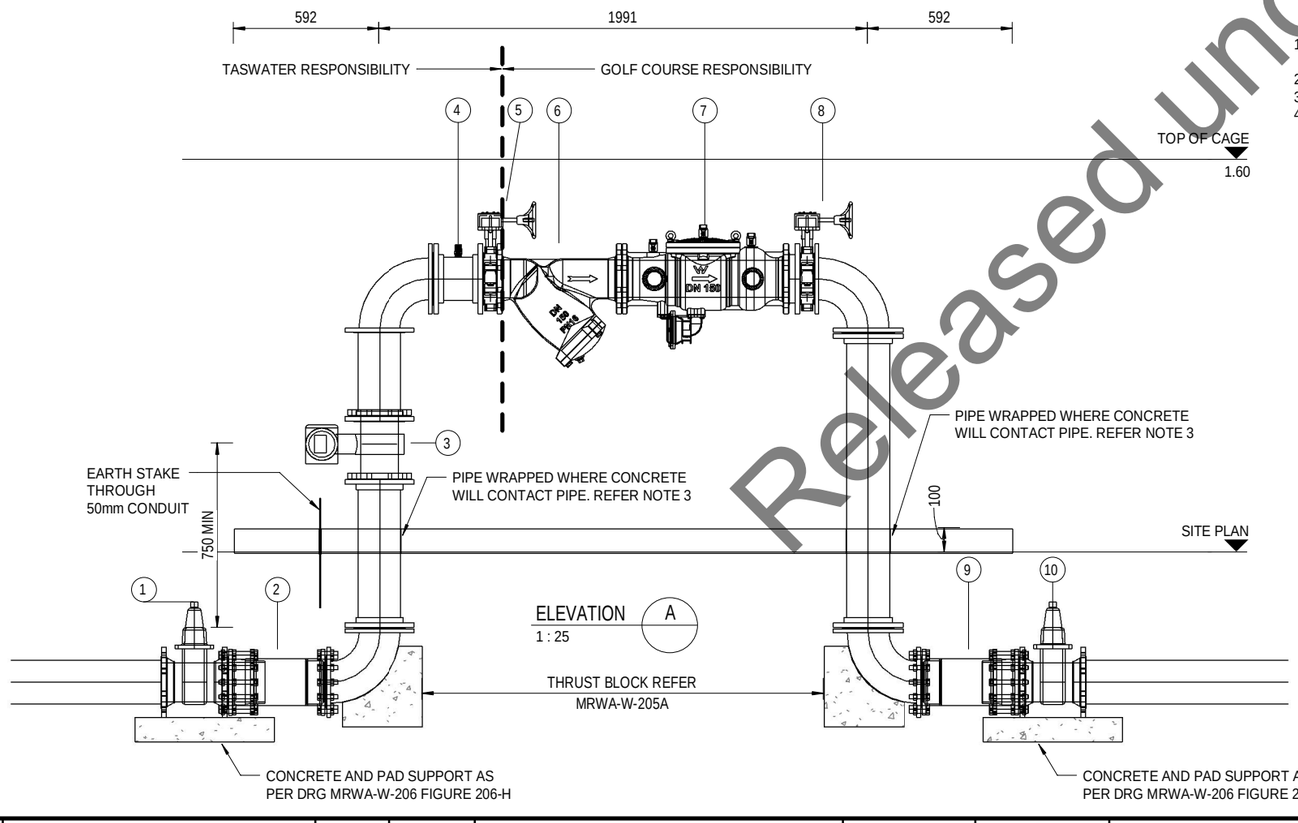
REVISION A



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1255

DN150 CICL PROPERTY SERVICE CONNECTION - PLAN

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Pipe Accessory Schedule

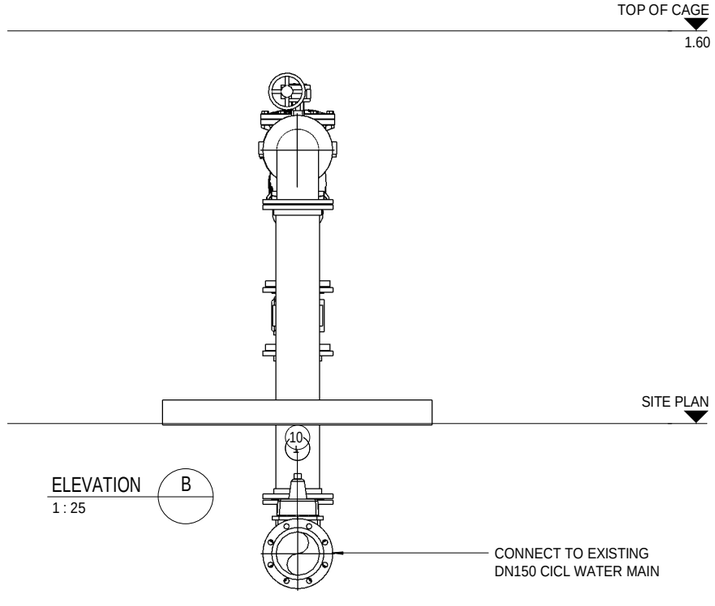
MARK	DESCRIPTION	COMMENTS
1	MAIN ISOLATOR	SUPPLIED BY TASWATER
2	DN150 GIBAULT JOINT	SUPPLIED BY TASWATER
3	DN150 EUROMAG MUT 2200 EL FLOW METER	SUPPLIED BY TASWATER
4	DN150x200 HYDRANT RISER WITH 25mm TAPPING FOR PRESSURE TESTING, 20mm VALVE AND PLUG	SUPPLIED BY TASWATER
5	DN150 LUG TYPE BUTTERFLY VALVE WITH WORK=M GEAR ACTUATOR	1 x SUPPLIED BY TASWATER
6	DN150 STRAINER	OWNED, OPERATED AND MAINTAINED BY PROPERTY OWNER
7	HIGH HAZZARD DN150 VALVCHEQ RPZD RP03 COMPLETE ASSEMBLY	OWNED, OPERATED AND MAINTAINED BY PROPERTY OWNER
8	DN150 LUG TYPE BUTTERFLY VALVE WITH WORK=M GEAR ACTUATOR	1 x SUPPLIED BY TASWATER
9	DN150 GIBAULT JOINT	SUPPLIED BY TASWATER
10	MAIN ISOLATOR	SUPPLIED BY TASWATER

GENERAL NOTES

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm), UNLESS NOTED OTHERWISE.
2. A 3mm CLEARANCE HAS BEEN ADDED WHERE A GASKET IS REQUIRED.
3. ALL METALIC PIPEWORK TO BE 'DENSO' WRAPPED, OR EQUIVALENT WHERE IT COMES IN CONTACT WITH CONCRETE - TO PROTECT IT FROM CORROSION.
4. WHERE A VENTED BACK FLOW PREVENTION DEVICE IS REQUIRED SUCH AS A REDUCED PRESSURE ZONE DEVICE (RPZD) IT SHALL:
   - COMPLY WITH AS3500 AND AS2845, IT SHALL:
   - HAVE FREE VENTILATION TO THE ATMOSPHERE FOR THE RELIEF VALVE AT ALL TIMES.
   - NOT BE IN AN AREA THAT MAY BE SUBJECT TO PONDING.
   - HAVE THE RELIEF DRAIN OUTLET NOT LESS THAN 300mm ABOVE THE SURROUNDING SURFACE.
5. INSTALL THE METER ASSEMBLY IN CAGE IN ACCORDANCE WITH TWS-W-003.
6. THE PROPERTY OWNER IS REPONSIBLE FOR THE ONGOING MAINTENANCE OF SECURITY CAGE.
7. INSTALL AND LOCATE THE METER ASSEMBLY SO THAT THE METER CAN BE EASILY READ.
8. THE MAGFLOW METER REQUIRES A STRAIGHT LENGTH OF PIPE MEASURED FROM THE CENTRE OF THE METER:
   - TO AN UPSTREAM LENGTH OF 5 TIMES THE NOMINAL DIAMETER; AND
   - TO A DOWNSTREAM LENGTH OF 3 TIMES THE NOMINAL DIAMETER TO MINIMISE TURBULANCE.
9. EARTH THE METER AS PER MANUFACTURER'S SPECIFICATIONS.
10. LOCATE THE METER IN AN UPRIGHT POSITION TO ENSURE MNIMUM TURBULANCE NEAR THE METER.
11. INSTALL MAIN ISOLATOR IN GROUND TO ENSURE MINIMUM TURBULANCE NEAR THE METER.
12. CONCRETE SLAB TO HAVE 50mm CONDUIT FOR CORRECT INSTALLATION OF EARTH STAKE.

VALVE & EQUIPMENT SCHEDULE

1. ONLY USE PRODUCTS WITH WATERMARK CERTIFICATION AND APPROVED FOR USE BY TASWATER AND LISTED WITHIN CITY WEST WATER'S APPROVED PRODUCTS CATALOGUE.
2. INSTALLATION MUST COMPLY WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
3. ALL VALVES MUST BE RESILIENT SEATED, CLOCKWISE CLOSING TO AS1628 WITH 316 STAINLESS STEEL BOLTS AND WASHERS.
4. UNLESS APPROVED OTHERWISE THE WATER METER/S, TAILS AND METER BOXES ARE TO BE SUPPLIED BY TASWATER.



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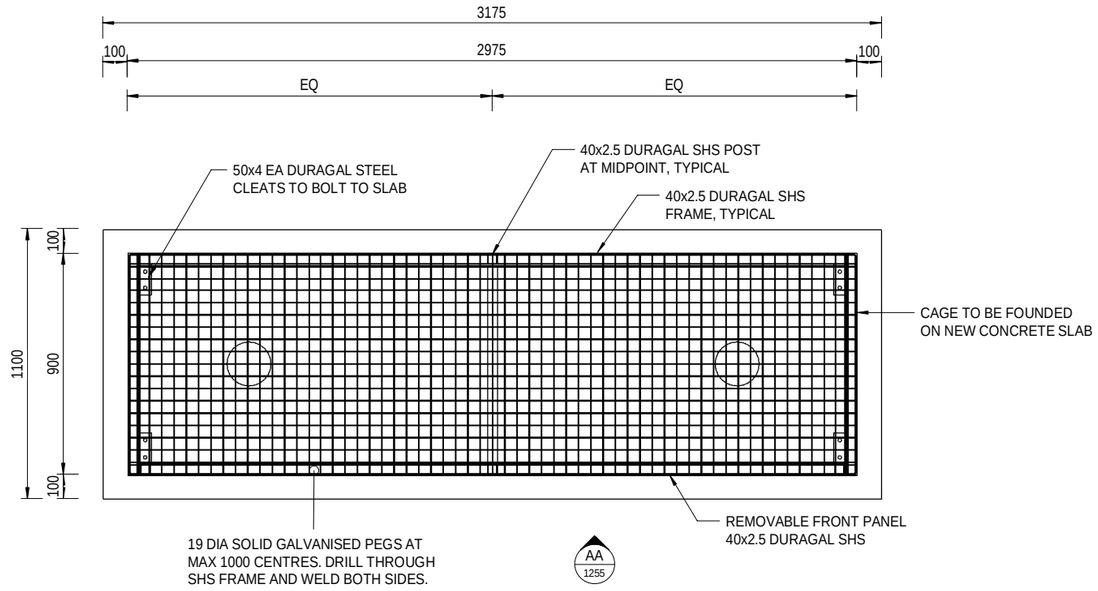
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

GOLF COURSE RPZD DETAIL - GENERAL ARRANGEMENT

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-S1254	4/07/2022 4:40:56 PM	1254

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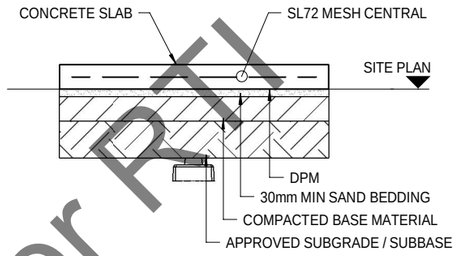
REVISION A



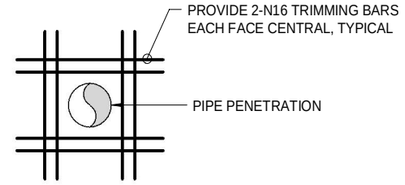
SLAB PLAN
SCALE: 1 : 25

GENERAL NOTES

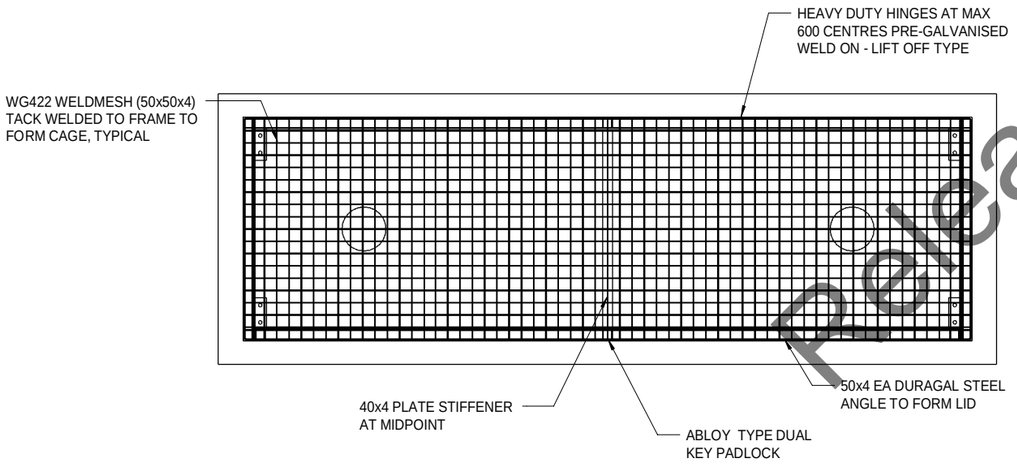
1. ALL DIMENSIONS SHALL BE CONFIRMED ONSITE WITH SUPERINTENDANT PRIOR TO FABRICATION.
2. ALL DIMENSIONS ARE IN MILLIMETRES (mm), UNLESS NOTED OTHERWISE.
3. ALL PIPE SUPPORTS SHALL BE DESIGNED TO SUIT THE PIPES AND ASSEMBLY SIZES SELECTED.
4. ALL CONCRETE TO BE 25MPa UNLESS NOTED OTHERWISE.
5. WG422 WELDMESH (50x50x4) TACK WELDED TO FRAME TO FORM CAGE.
6. ALL WELDS TO BE 4 CONTINUOUS FILLET WELD - AVOID BURN THROUGH.
7. ALL WELDS AND CUT ENDS TO BE COATED WITH GALMET COLD GALVANISING OR SIMILAR APPROVED.



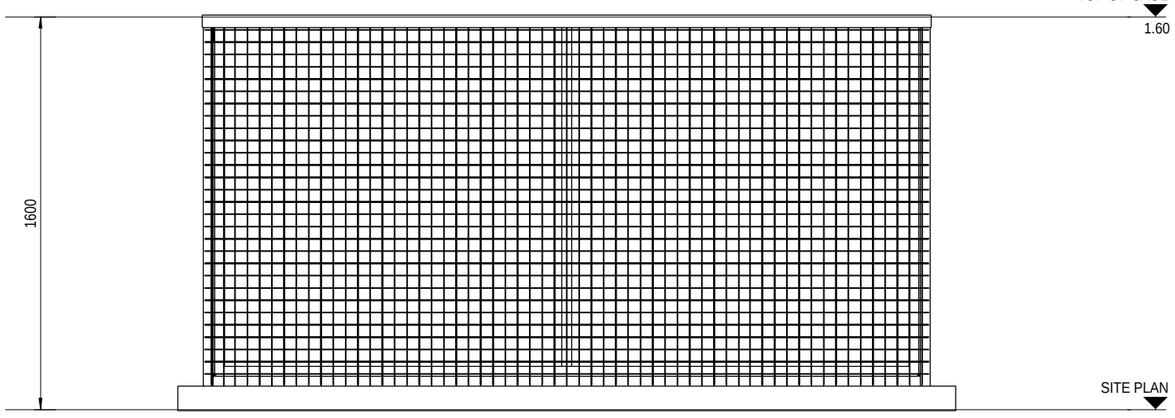
SLAB REINFORCEMENT DETAIL
SCALE: 1 : 25



SLAB PENETRATION DETAIL
SCALE: 1 : 25



CAGE PLAN
SCALE: 1 : 25



ELEVATION AA
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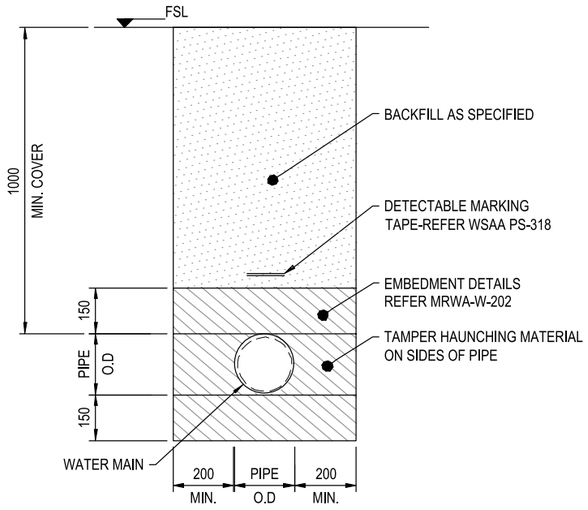
Department of State Growth
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

HINGED LOCKABLE ANTI-VANDAL CAGE

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
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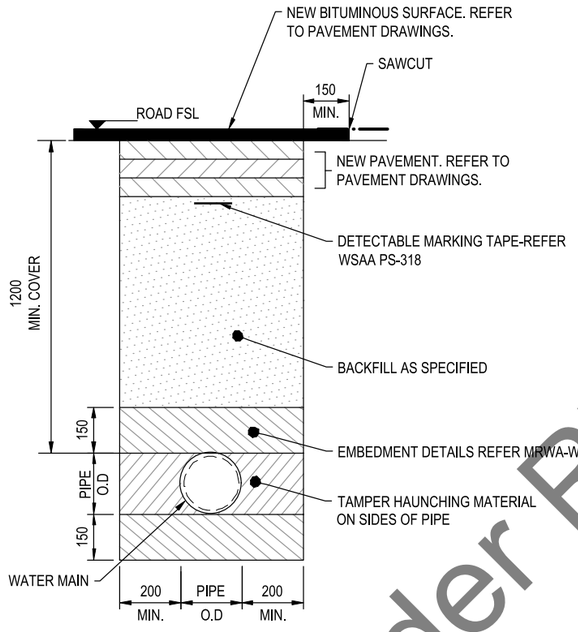
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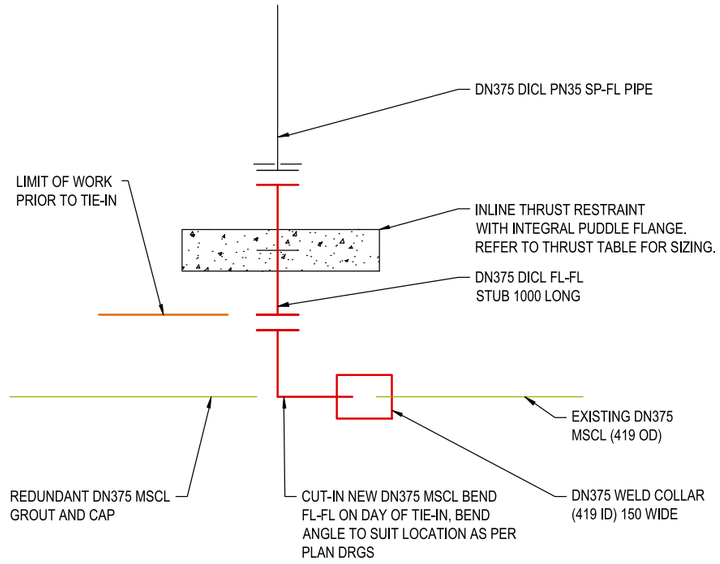
TYPICAL NON TRAFFICABLE WATER MAIN TRENCH DETAIL

SCALE 1:20



TYPICAL TRAFFICABLE WATER MAIN TRENCH DETAIL

SCALE 1:20



TYPICAL TIE-IN DETAILS

SCALE N.T.S

BACKFILL TYPE:

NON - TRAFFICABLE - SELECTED OR ORDINARY BACKFILL
TRAFFICABLE - CLASS 3 MATERIAL AS PER ROAD SPECIFICATION

NOTES:
AS PER MRWA-W-202 AND DSG T14 PUBLIC UTILITIES SPEC MAXIMUM COVER = 1.5 MIN COVER. COVER MAY BE EXCEEDED FOR LIMITED LENGTH OF TRENCH, TO MAINTAIN CLEARANCE FROM SERVICES BURIED INFRASTRUCTURE AND TO MINIMISE CHANGES IN GRADE

WATER MAIN CLEARANCES

UTILITY (EXISTING OR PROPOSED SERVICE)	MINIMUM HORIZONTAL CLEARANCE (mm) NEW MAIN SIZE		MINIMUM VERTICAL CLEARANCE (mm)
	≤DN 200	>DN 200	
WATER MAINS >DN 375	REFER MRWA-W-202	REFER MRWA-W-202	300
WATER MAINS <=DN 375	REFER MRWA-W-202	REFER MRWA-W-202	150
GAS MAINS	REFER MRWA-W-202	REFER MRWA-W-202	150
TELECOMMUNICATIONS CONDUITS AND CABLES	300	600	150
ELECTRICITY CONDUITS AND CABLES	500	1000	225
STORM WATER DRAINS	300	600	150
SEWERS - GRAVITY	1000 / 600	1000 / 600	500
KERBS	300	300	REFER MRWA-W-202 (ie. MIN COVER)

REFERENCE STANDARD DRAWINGS:

MRWA-W-103 - PIPE & JOINTING REQUIREMENTS
MRWA-W-106 - INSTALLATION OF >=DN100 OFFTAKES TO EXISTING MAINS
MRWA-W-107 - INSTALLATION OF DN40PE, DN50PE AND DN63PE OFFTAKES
MRWA-W-111 - INSTALLATION OF DN25PE AND DN32PE OFFTAKES
MRWA-W-202 - PIPE TRENCH DETAILS
MRWA-W-203 - EMBEDMENT
MRWA-W-205A - SINGLE MAIN CONCRETE RESTRAINTS AND PE THRUST RESTRAINT
MRWA-W-208 - SLOPING MAINS AND TRENCH DRAINAGE
MRWA-W-209 - TRENCH BULKHEADS AND TRENCHSTOPS
MRWA-W-212 - CURVES AND DEFLECTIONS (VERTICAL & HORIZONTAL)
MRWA-W-213 - TRENCHLESS CONSTRUCTION
MRWA-W-302 - VALVE SURFACE ARRANGEMENTS, TRAFFICABLE & NON-TRAFFICABLE AREAS
MRWA-W-303 - HYDRANT & WASHOUT SURFACE ARRANGEMENTS
MRWA-W-306A - FLANGE ARRANGEMENTS
MRWA-W-306B - FLANGE DETAILS AND FLANGE FASTENING REQUIREMENTS

TW-W-300 - PIPE INSTALLATION, THRUST BLOCKS
TW-W-306 - STOP VALVES / FIRE PLUGS, TYPICAL INSTALLATION
TW-W-311 - FIRE PLUGS, MARKING - WITH KERB(S)
TW-W-312 - FIRE PLUGS, MARKING - WITHOUT KERB(S)
TW-W-313 - FIRE PLUGS, MARKING - AT INTERSECTIONS

TWS-W-0002 - PROPERTY SERVICE CONNECTIONS

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A	DETAILED DESIGN	D.C.	17/03/2021

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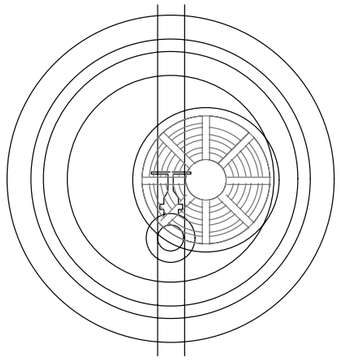
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

WATER MAIN TYPICAL SECTIONS & DETAILS - DRG 1

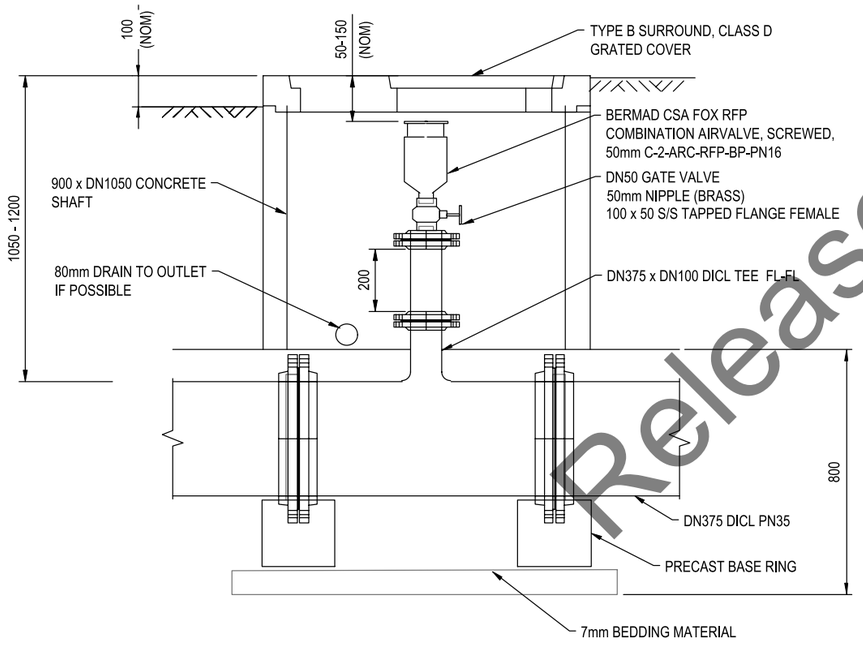
CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
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REGISTRATION NUMBER
A0113.028

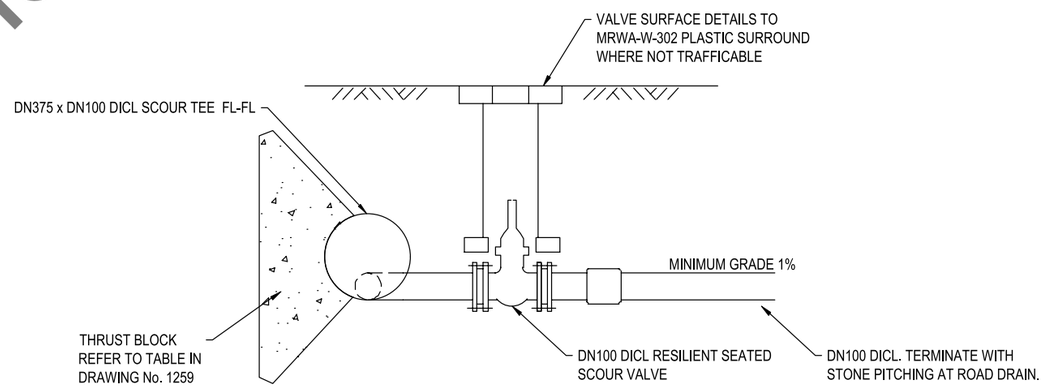
REVISION A



AIR VALVE PIT PLAN
SCALE 1:20 (A3)



AIR VALVE PIT - ELEVATION
SCALE N.T.S.



WATER MAIN SCOUR VALVE ARRANGEMENT
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TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

WATER MAIN TYPICAL SECTIONS & DETAILS - DRG 2

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1257	06-Oct-22, 4:25 PM	1257

REGISTRATION NUMBER
A0113.028

REVISION A

WATER MAIN FITTINGS AND THRUST RESTRAINTS			
CHAINAGE MARKER	FITTING	THRUST TYPE	MIN. THRUST AREA (m2)
WM-101	TIE-IN TO EXISTING WATERMAIN AND HORIZONTAL BEND 11.25°	INLINE	0.41
WM-102	VERTICAL JOINT DEFLECTION 1.98°	N/A	N/A
WM-103	VERTICAL JOINT DEFLECTION 0.99°	N/A	N/A
WM-104	TIE-IN TO NEW DN375 DICL WITH THRUST BLOCK	PLAIN	0.21
WM-105	VERTICAL JOINT DEFLECTION 0.50°	N/A	N/A
WM-106	VERTICAL JOINT DEFLECTION 0.57°	N/A	N/A
WM-107	VERTICAL JOINT DEFLECTION 1.55°	N/A	N/A
WM-108	VERTICAL JOINT DEFLECTION 3.26°	N/A	N/A
WM-109	VERTICAL JOINT DEFLECTION 1.49°	N/A	N/A
WM-110	VERTICAL JOINT DEFLECTION 0.80°	N/A	N/A
WM-111	VERTICAL JOINT DEFLECTION 3.98°	N/A	N/A
WM-112	VERTICAL JOINT DEFLECTION 3.69°	N/A	N/A
WM-113	VERTICAL JOINT DEFLECTION 3.67°	N/A	N/A
WM-114	HORIZONTAL BEND 11.25° HORIZ. JOINT DEFLECTION 0.74°	PLAIN	0.41
WM-115	HORIZONTAL BEND 11.25°	PLAIN	0.41
WM-116	NEW PROPERTY CONNECTION AND WATER METER	PLAIN	0.18
WM-117	HORIZONTAL BEND 6.00° HORIZONTAL JOINT DEFLECTION 0.30°	PLAIN	0.21
WM-118	DN100 BRANCH TEE, HORIZONTAL BEND 11.25o AND TIE-IN TO EXISTING WATERMAIN	INLINE	0.41
WM-201	TIE-IN TO EXISTING DN150 CICL SUB MAIN	PLAIN	0.36
WM-202	VERTICAL JOINT DEFLECTION 4.00°	N/A	N/A
WM-203	VERTICAL JOINT DEFLECTION 0.48°	N/A	N/A
WM-204	VERTICAL BEND 11.25°	PLAIN	0.18
WM-205	VERTICAL BEND 11.25°	PLAIN	0.18
WM-206	NEW TASWATER METER	PLAIN	0.36
WM-302	VERTICAL 11.25° BEND + JOINT DEFLECTION 3.25°	PLAIN	0.41
WM-303	VERTICAL 11.25° BEND + JOINT DEFLECTION 3.69°	PLAIN	0.41
WM-304	VERTICAL JOINT DEFLECTION 4.76°	N/A	N/A
WM-305	VERTICAL JOINT DEFLECTION 3.33°	N/A	N/A
WM-306	VERTICAL 6° BEND + JOINT DEFLECTION 1.59°	PLAIN	0.21
WM-307	TIE-IN TO EXISTING WATERMAIN	N/A	N/A

THRUST BLOCK DESIGN IS BASED ON THE FOLLOWING:

AHBP = 100 kPa
DESIGN HEAD = 109m
MIN TEST PRESSURE = 1365 kPa
TEST PRESSURE SPECIFIED = 1500 kPa

NOTE:

1. CONCRETE THRUST RESTRAINTS SHALL COMPLY WITH TASWATER STANDARD DRAWINGS TW-W-300 AND MRWA-W205A

SETOUT POINTS		
POINT	EASTING	NORTHING
WM-101	540932.607	5258620.711
WM-102	540947.405	5258630.961
WM-103	540980.287	5258653.738
WM-104	541023.031	5258683.350
WM-105	541038.649	5258694.171
WM-106	541050.979	5258702.713
WM-107	541064.131	5258711.825
WM-108	541108.520	5258742.576
WM-109	541116.740	5258748.270
WM-110	541149.621	5258771.049
WM-111	541172.637	5258786.994
WM-112	541186.612	5258796.675
WM-113	541200.586	5258806.356
WM-114	541247.831	5258839.085
WM-115	541257.696	5258849.542
WM-116	541263.755	5258853.852
WM-117	541295.023	5258876.089
WM-118	541323.502	5258901.478
WM-201	541380.710	5258935.505
WM-202	541376.130	5258944.395
WM-203	541370.277	5258956.192
WM-204	541358.090	5258977.824
WM-205	541356.126	5258981.309
WM-206	541354.690	5258983.858
WM-302	541018.068	5258688.286
WM-303	541015.940	5258690.401
WM-304	540991.831	5258714.375
WM-305	540986.158	5258720.016
WM-306	540983.322	5258722.836
WM-307	540979.420	5258726.715

Released under RTI

No.	Amendment Description	Initials	Date
B	UPDATES TO WATER MAIN TABLE	C.M	06/10/2022
A	DETAILED DESIGN	D.C.	17/03/2021

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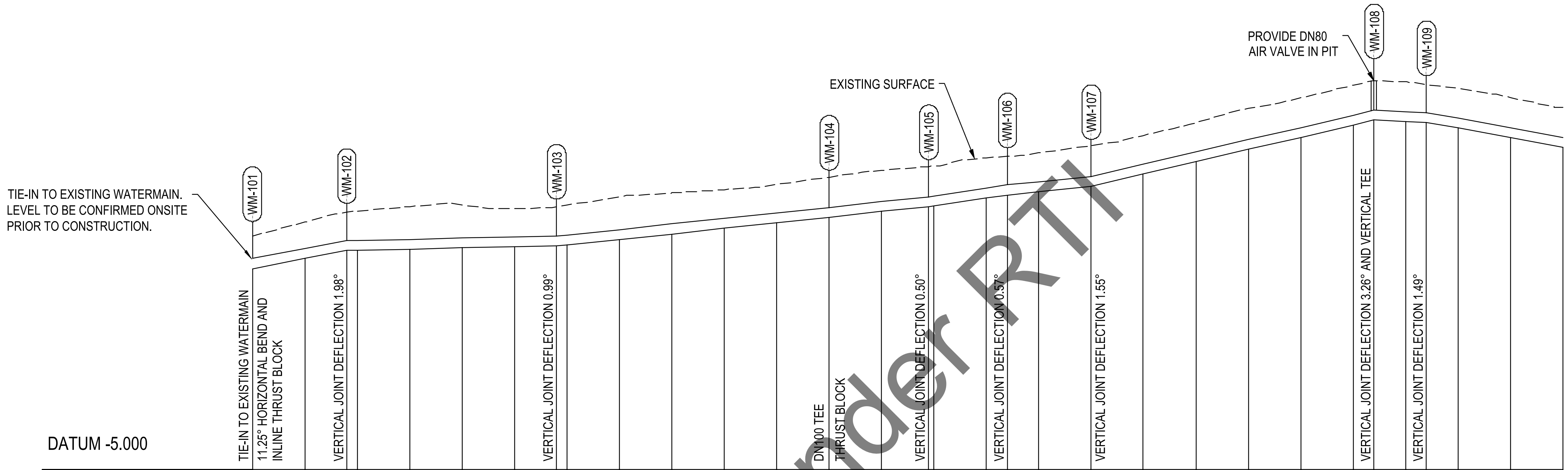
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

WATER MAIN SETOUT, FITTING AND THRUST TABLE

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1259	06-Oct-22, 4:25 PM	1259

REGISTRATION NUMBER
A0113.028

REVISION B



DATUM -5.000

PIPELINE GRADE: G=3.9% L=18m | G=0.4% L=40m | G=2.1% L=71m | G=3.0% L=15m | G=2.0% L=16m | G=4.7% L=54m | G=-1.0% L=10m | G=-3.6% L=40m

CHAINAGE	PIPE INVERT	GROUND LEVELS	DEPTH TO INVERT	PIPE COVER
0.00	2.664	3.897	-1.233	-0.820
10.00	3.050	4.439	-1.390	-0.977
18.00	3.358	4.824	-1.466	-1.053
20.00	3.366	4.858	-1.491	-1.078
30.00	3.406	5.029	-1.623	-1.210
40.00	3.447	5.092	-1.646	-1.233
50.00	3.487	4.958	-1.472	-1.059
58.00	3.519	5.011	-1.492	-1.079
60.00	3.562	5.077	-1.515	-1.102
70.00	3.774	5.406	-1.631	-1.218
80.00	3.987	5.547	-1.560	-1.147
90.00	4.199	5.672	-1.472	-1.059
100.00	4.412	5.870	-1.458	-1.045
110.00	4.624	6.151	-1.527	-1.114
120.00	4.837	6.413	-1.577	-1.164
129.00	5.028	6.558	-1.530	-1.117
130.00	5.058	6.574	-1.515	-1.102
140.00	5.358	6.885	-1.526	-1.113
144.00	5.478	6.942	-1.464	-1.051
150.00	5.598	7.075	-1.476	-1.063
160.00	5.798	7.357	-1.559	-1.146
170.00	6.268	7.744	-1.476	-1.063
180.00	6.738	8.226	-1.488	-1.075
190.00	7.208	8.771	-1.562	-1.149
200.00	7.678	9.178	-1.499	-1.086
210.00	8.148	9.661	-1.513	-1.100
214.00	8.336	9.839	-1.503	-1.090
220.00	8.276	9.784	-1.507	-1.094
224.00	8.236	9.694	-1.458	-1.045
230.00	8.020	9.533	-1.513	-1.100
240.00	7.661	9.191	-1.531	-1.118
250.00	7.301	8.822	-1.521	-1.108

DN375 PN35 DICL WATERMAIN PROFILE

Released under RTI

No.	Amendment Description	Initials	Date
A	DETAILED DESIGN	D.C.	17/03/2021

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REVIEWED ......

Department of State Growth

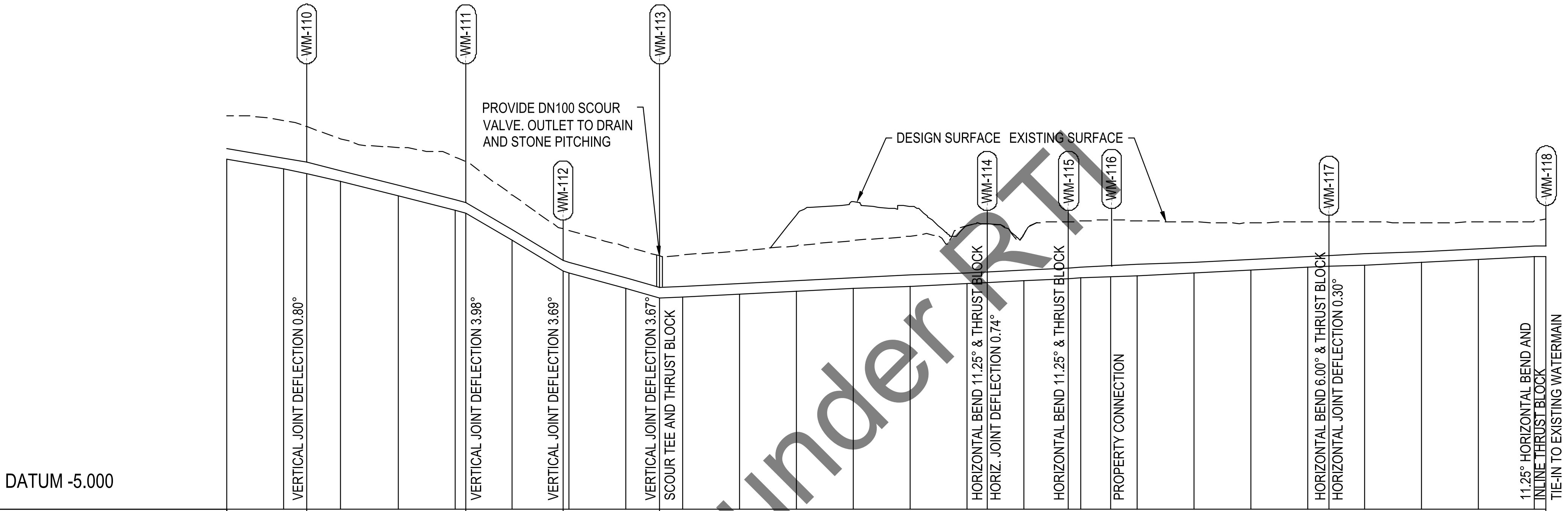
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

DN375 PN35 DICL WATERMAIN PROFILE - DRG 1

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1261	06-Oct-22, 4:25 PM	1261

REGISTRATION NUMBER A0113.028

REVISION A



PIPELINE GRADE: L=40m G=-3.6% | L=28m G=-5.0% | L=17m G=-12.0% | L=17m G=-5.5% | L=156m G=0.9%

CHAINAGE	PIPE COVER	DEPTH TO INVERT	GROUND LEVELS	PIPE INVERT
250.00	-1.108	-1.521	8.822	7.301
260.00	-1.285	-1.698	8.640	6.942
264.00	-1.224	-1.637	8.435	6.798
270.00	-1.107	-1.520	8.018	6.498
280.00	-1.300	-1.713	7.712	5.998
290.00	-1.453	-1.866	7.364	5.498
292.00	-1.387	-1.800	7.196	5.398
300.00	-1.197	-1.610	6.049	4.438
309.00	-1.067	-1.480	4.838	3.358
310.00	-1.066	-1.479	4.782	3.303
320.00	-1.056	-1.469	4.222	2.752
326.00	-1.053	-1.466	3.888	2.422
330.00	-1.048	-1.461	3.921	2.459
340.00	-1.105	-1.518	4.071	2.553
350.00	-2.260	-2.673	5.319	2.646
360.00	-2.647	-3.060	5.799	2.740
370.00	-2.383	-2.796	5.629	2.833
380.00	-1.611	-2.024	4.950	2.926
383.517	-1.638	-2.051	5.010	2.959
390.00	-1.226	-1.639	4.659	3.020
397.851	-1.585	-1.998	5.091	3.093
400.00	-1.588	-2.001	5.114	3.113
405.287	-1.578	-1.991	5.153	3.162
410.00	-1.511	-1.924	5.130	3.206
420.00	-1.365	-1.778	5.078	3.300
430.00	-1.240	-1.653	5.047	3.393
440.00	-1.183	-1.596	5.083	3.487
443.658	-1.146	-1.559	5.080	3.521
450.00	-1.082	-1.495	5.075	3.580
460.00	-0.975	-1.388	5.061	3.673
470.00	-0.895	-1.308	5.075	3.767
480.00	-0.840	-1.253	5.113	3.860
481.81	-0.840	-1.253	5.174	3.877

DN375 PN35 DICL WATERMAIN PROFILE

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No.	Amendment Description	Initials	Date
A	DETAILED DESIGN	D.C.	17/03/2021

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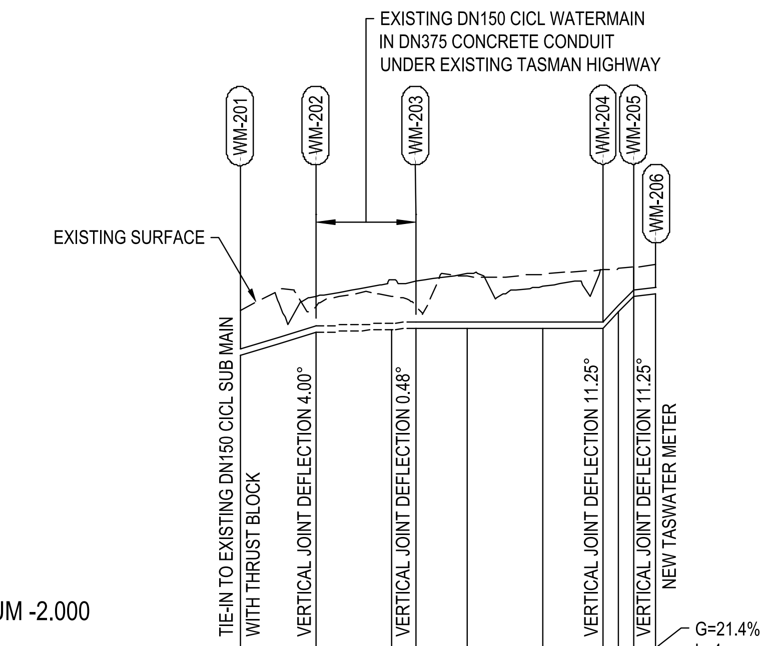
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

DN375 PN35 DICL WATERMAIN PROFILE - DRG 2

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1262	06-Oct-22, 4:25 PM	1262

REGISTRATION NUMBER
A0113.028

REVISION A

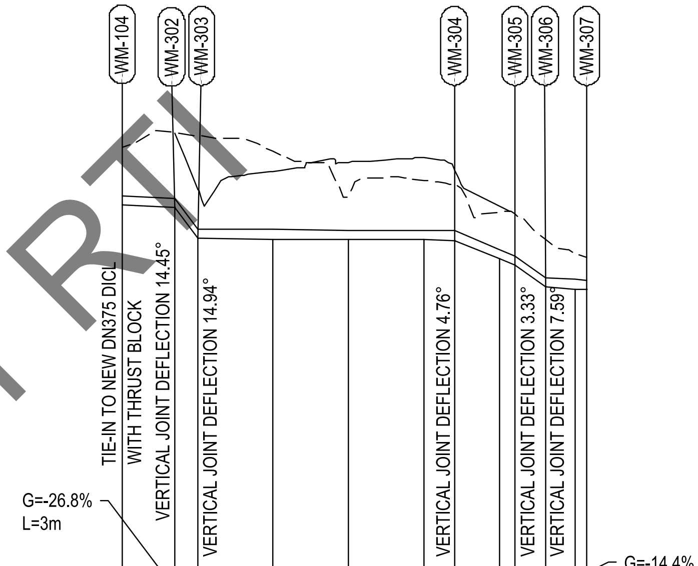


DATUM -2.000

PIPELINE GRADE: G=6.2% L=10m | EXISTING | L=25m G=0.0% | G=21.4% L=4m | G=2.3% L=3m

PIPE COVER	-1.043	-0.793	-1.157	-1.120	-1.280	-0.947	-1.386	-0.981	-0.599	-0.600
DEPTH TO INVERT	-1.210	-0.960	-1.324	-1.287	-1.447	-1.114	-1.553	-1.148	-0.766	-0.767
GROUND LEVELS	6.967	7.333	7.781	7.770	7.930	7.597	8.036	8.060	8.106	8.175
PIPE INVERT	5.756	6.373	6.457	6.483	6.483	6.483	6.483	6.912	7.340	7.408
CHAINAGE	0.00	10.00	20.00	23.172	30.00	40.00	48.00	50.00	52.00	54.93

DN150 PN35 DICL WATERMAIN PROFILE



DATUM -5.000

PIPELINE GRADE: L=7m G=-1.0% | G=-26.8% L=3m | L=34m G=-0.1% | L=8m G=-8.5% | G=-14.4% L=4m | G=-1.0% L=5.5m

PIPE COVER	-1.277	-1.718	-1.036	-1.538	-1.798	-1.932	-1.595	-1.148	-1.115	-1.020	-0.666	-0.600
DEPTH TO INVERT	-1.527	-1.968	-1.286	-1.788	-2.048	-2.182	-1.845	-1.398	-1.365	-1.270	-0.916	-0.850
GROUND LEVELS	6.151	0.000	5.036	5.522	5.768	5.888	0.000	4.497	0.000	0.000	3.326	3.245
PIPE INVERT	4.624	4.554	3.749	3.735	3.721	3.707	3.701	3.193	3.024	2.450	2.410	2.395
CHAINAGE	0.00	7.00	10.00	20.00	30.00	40.00	44.00	50.00	52.00	56.00	60.00	61.50

DN250 PE100 PN10 SLEEVING PIPE FOR
DN125 PE100 PN16 WATERMAIN

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No.	Amendment Description	Initials	Date
A	DETAILED DESIGN	D.C.	17/03/2021

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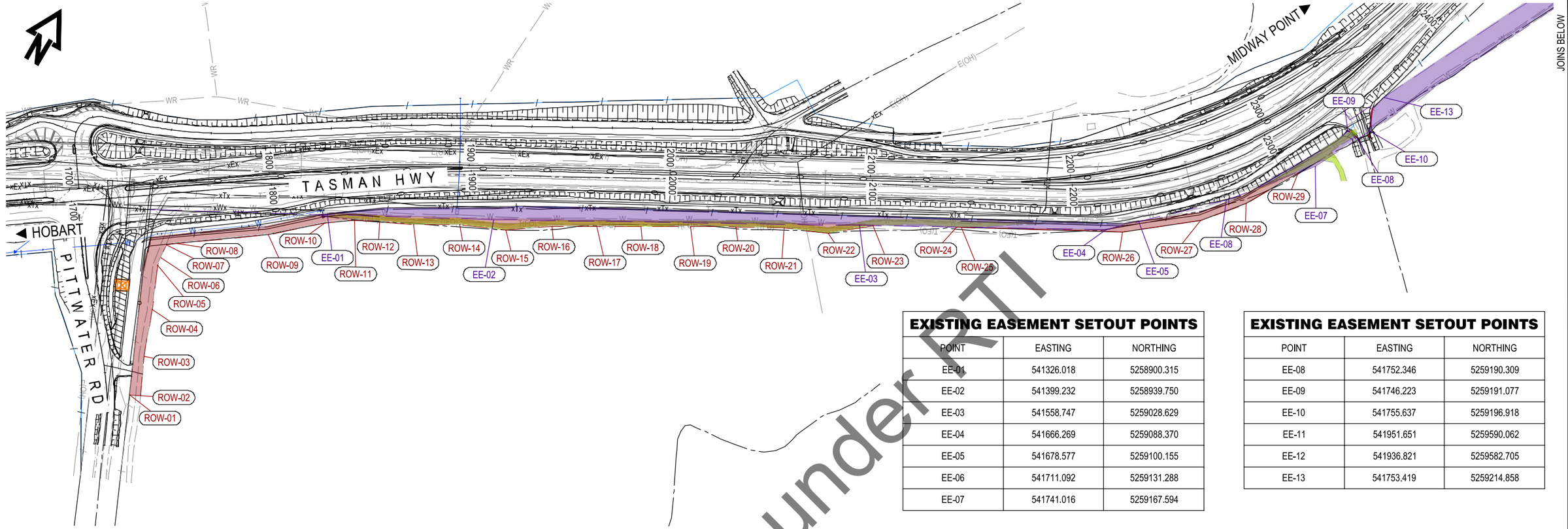
Department of State Growth
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

WATERMAIN PROFILES - DRG 3

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1263	06-Oct-22, 4:25 PM	1263

REGISTRATION NUMBER
A0113.028

REVISION A





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EXISTING EASEMENT SETOUT POINTS		
POINT	EASTING	NORTHING
EE-01	541326.018	5258900.315
EE-02	541399.232	5258939.750
EE-03	541558.747	5259028.629
EE-04	541666.269	5259088.370
EE-05	541678.577	5259100.155
EE-06	541711.092	5259131.288
EE-07	541741.016	5259167.594

EXISTING EASEMENT SETOUT POINTS		
POINT	EASTING	NORTHING
EE-08	541752.346	5259190.309
EE-09	541746.223	5259191.077
EE-10	541755.637	5259196.918
EE-11	541951.651	5259590.062
EE-12	541936.821	5259582.705
EE-13	541753.419	5259214.858

RIGHT OF WAY SETOUT POINTS		
POINT	EASTING	NORTHING
ROW-01	541285.696	5258773.364
ROW-02	541290.782	5258775.592
ROW-03	541282.143	5258793.571
ROW-04	541274.208	5258815.808
ROW-05	541265.429	5258836.356
ROW-06	541264.921	5258840.250
ROW-07	541264.012	5258847.210
ROW-08	541268.476	5258850.459
ROW-09	541305.627	5258876.878
ROW-10	541327.113	5258896.186
ROW-11	541339.147	5258904.746
ROW-12	541350.384	5258910.397
ROW-13	541365.885	5258917.626
ROW-14	541385.914	5258929.215
ROW-15	541407.097	5258938.239

RIGHT OF WAY SETOUT POINTS		
POINT	EASTING	NORTHING
ROW-16	541426.005	5258951.355
ROW-17	541445.361	5258962.626
ROW-18	541464.736	5258973.516
ROW-19	541485.881	5258985.992
ROW-20	541505.621	5258997.061
ROW-21	541526.632	5259008.702
ROW-22	541547.076	5259017.407
ROW-23	541564.707	5259031.940
ROW-24	541601.063	5259052.140
ROW-25	541603.165	5259053.190
ROW-26	541674.097	5259091.592
ROW-27	541704.959	5259115.913
ROW-28	541720.385	5259134.591
ROW-29	541735.419	5259160.803

LEGEND

- RIGHT OF WAY / EASEMENT
- ADDITIONAL RIGHT OF WAY AREA
- EXISTING WATERMAIN EASEMENT
- EXISTING WATERMAIN EASEMENT AREA

No.	Amendment Description	Initials	Date
A	DETAILED DESIGN	D.C.	08/02/2022

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Department of State Growth
TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

RIGHT OF WAY SETOUT SCHEDULE

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1271	06-Oct-22, 4:25 PM	1271

REGISTRATION NUMBER
A0113.028

REVISION A

From:
To:
Subject: CM: RE: Tasman Hwy - Airport to Midway Point Causeway - Program, Risk Register and Estimate
Date: Tuesday, 11 October 2022 7:42:33 PM

Hi
They are factored up from OVG nos, just my guess. s 39
We are carrying a pretty big contingency on the estimate so at this stage we are well covered.
Regards
s 36

Principal Engineer
s 36
Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36
pittsh.com.au

From: @stategrowth.tas.gov.au>
Sent: Tuesday, 11 October 2022 3:37 PM
To: s36 @pittsh.com.au>
Subject: RE: Tasman Hwy - Airport to Midway Point Causeway - Program, Risk Register and Estimate

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Hi s 36
Thank you for the updated risk register, program and P50/P90. s 39
I assume these are the current figures from the OVG?
Thanks,

Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
| s 36
www.stategrowth.tas.gov.au

Courage to make a difference through
TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE
In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From: s 36 @pittsh.com.au>
Sent: Monday, 10 October 2022 8:47 AM
To: @stategrowth.tas.gov.au>; @stategrowth.tas.gov.au>
Subject: Tasman Hwy - Airport to Midway Point Causeway - Program, Risk Register and Estimate
Hi
Attached please find

i. Updated Program covering matters raised below
ii. Updated Risk Register
iii. Updated P50/P90 estimate

Released under RTI

As previously advised, key risks relate to the time necessary to resolve

i. EPBC Approval
ii. Commonwealth Land
iii. Access/licence to Golf Club Land to carry out the course modifications

To clarify matters for you, [redacted], the Golf Course land is vested in the Crown so theoretically we could start construction of the highway as soon as we have the EPBC approval AND access to the Commonwealth land. This action would resume Golf Club Land occupied by the 16th fairway, part of the practice area and the Green area of the first hole. This would make the course unplayable unless proposed temporary arrangements are in place. The discussions with the Golf Club have always been about minimising the amount of time that the course is under the combined effects of temporary play arrangements and reconstruction. If we start highway works without a concurrent, or earlier start, on the Course modification works we put the Golf Club in a high state of uncertainty with disruption to normal playing conditions and no agreed starting or finishing date for the modifications. s 39 [redacted]. The other complication is that to complete the highway works we require temporary access to the Course to build two retaining walls and reconstruct new access roads. Approval for these works is to be included in the licence we are seeking from the Golf Club. In summary to start highway works without having secured agreement from the Golf Club on the course modification works will result in severe political backlash and adverse publicity from the Golf Club and leave us in the position of being unable to complete the contracted highway construction works.

The cost estimate has been adjusted to reflect the tie in with the Airport Interchange as we currently understand it ie Interchange works are constructed full width and to final levels to the tie in point. This represents a net reduction in scope of approximately 760 metres (the work shown on our Drawings 1101 to 1105) which is now being constructed under the Interchange works. The Milford access (1400 m south of the highway) as recently confirmed by the Department is included, whereas previous estimates had the access through the Pines. The construction cost of the Golf Course modification works is s 39 [redacted] out of the overall construction cost of $18.1 million.

Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: [redacted]@stategrowth.tas.gov.au>
Sent: Tuesday, 4 October 2022 10:59 AM
To: s 36 [redacted]@pittsh.com.au>
Subject: FW: Tasman Hwy - Follow up from Meeting on 8 Sept 2022

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Hi s 36 [redacted]

Please see further comments in green below, mostly regarding program. As discussed on the

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phone this morning, please let me know the current P50/P90 estimates and outline what items/issues could change these costs.

Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

Courage to make a difference through
TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE
In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From: [redacted]@stategrowth.tas.gov.au>
Sent: Wednesday, 21 September 2022 7:31 AM
To: [redacted]@stategrowth.tas.gov.au>
Subject: FW: Tasman Hwy - Follow up from Meeting on 8 Sept 2022

Hi [redacted]

Thanks for getting back.

Please see below comments in green.

I think it is best if you coordinate the correspondences?

Cheers,

[redacted]

From: [redacted]@stategrowth.tas.gov.au>
Sent: Thursday, 15 September 2022 11:35 AM
To: [redacted]@stategrowth.tas.gov.au>
Cc: s 36 [redacted]@pittsh.com.au>
Subject: FW: Tasman Hwy - Follow up from Meeting on 8 Sept 2022

Hi [redacted]

Please see below from [redacted].

Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

Courage to make a difference through
TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE
In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From: s 36 [redacted]@pittsh.com.au>
Sent: Wednesday, 14 September 2022 5:58 PM
To: [redacted]@stategrowth.tas.gov.au>
Subject: RE: Tasman Hwy - Follow up from Meeting on 8 Sept 2022

Hi [redacted]

Please refer to my comments below in red. Let me know, [redacted], if you would like to meet to go through any of these issues given the long term nature of some of them and associated complexity.

Released under RTI

Regards

s 36

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone

pittsh.com.au

From: @stategrowth.tas.gov.au>
Sent: Tuesday, 13 September 2022 4:54 PM
To: s 36 @pittsh.com.au>
Subject: FW: Tasman Hwy - Follow up from Meeting on 8 Sept 2022

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Hi s 36

Could you please refer to the below and attached from the SETS team leader . Can you please review my draft responses in blue and amend where required. I have remove items not relevant to you.

Thanks,

Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
| s 36
www.stategrowth.tas.gov.au

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TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE
In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From: @stategrowth.tas.gov.au>
Sent: Tuesday, 13 September 2022 11:55 AM
To: stategrowth.tas.gov.au>
Subject: Tasman Hwy - Follow up from Meeting on 8 Sept 2022

Hi ,

As discussed last week:

- Please see attached comments regarding the submitted program.
  Please provide tasks/milestones for EPBC approval within the program instead of a block of 175 days.

s 39

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The key external stakeholders are HIAPL, Milford s 36) and The Tasmania Golf club. Tenders cannot be called until their respective major issues are resolved. s 39 [redacted]
Transport Commissioner approval has been obtained for the traffic signals at Pittwater Road, if that is what the comment on the program refers to? Yes, thanks.
We need Tasnetworks easements on the Golf Course and Milford. These have been requested. I'll add them to the program.

- Please review if P50 & P90 were provided and still up to date.
  Scope hasn't changed to any significant degree since the estimate was prepared. It is over 18 months old now and some cost escalation may have occurred. I will review and advise.
- Consultant to provide updated Project Risk Register.
  I will review this and update. Some of the initial risks are no longer relevant having been resolved through the design phase. The key risks are the timeframes to obtain
  i. Airport land
  ii. Golf Course Agreement for modification works
  iii. EPBC for works on Milford

  s 39 [redacted]
- Please confirm all lands required for construction have been vested by Crown.
  Milford and Golf Course land vested in the Crown. HIAPL freehold land on northern side of the highway vested. Commonwealth land on corner of Pittwater Road and Tasman Highway subject to Commonwealth processes. We have requested a timeline update from the Commonwealth. Is this in relation to Item 8 – 13 within the program?

I've reviewed the DA for both the Golf Course and the duplication.
As I'm just getting my head around the project, and without the latest risk register, can you please update the below status so we can cross off all these potential roadblocks?
The Golf Course DA mentioned:

- *Engineering design for golf course alteration must design for access arrangements, carpark and driveways, service upgrades/relocations & show extent of vegetation removal. Such designs must be submitted to and approved by Council's Group Manager Engineering Services* – has this been done? Not done. Golf Club agreed to all scope items at a meeting on 14 July and I am waiting on written confirmation from Golf Course lawyer on this before sending drawings to Council. A follow up reminder was sent to the lawyer on 1 September Can you please add this onto the program?
- *The site may contain relics which are protected under the Aboriginal Relics Act 1975 and the applicant is therefore responsible to ensure compliance with the provisions of that Act. Applicants are advised to seek independent technical advice in relation to identification and protection of any relics.* Has aboriginal assessment been done? All resolved. There are no known values in our works area.
- *DPIPWE advised that any works to fill in the existing dam and create a new dam will require a separate application to be made in accordance with the Water Management Act 1999.* I can see that there is a compressed file with lodgement to DPIPWE signed in July 2021, but I couldn't find the permit within the CM folder. Can you please locate a copy? Can you please send me the permit. Attached

The Tasman Hwy DA mentioned:

- *Amended plans showing the access from Tasman Hwy to 1431 Tasman Hwy, Cambridge on proposal plan Sheet 1012 (dated 24 June 2021) outside the pink area must be*

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submitted to and approved by Council's Manager city Planning prior to the commencement of the use/development. Has this been submitted and approved by Council? Detailed Design was completed in March 2021. There are several amendments and updates to the Drawings that are necessary before they can be submitted to Council, noting that a full set was submitted to Council with the DA. These changes are

i. Amend following Taswater design approval of the watermain relocation
ii. Update Milford Access at corner of Pittwater Road
iii. Revise services drawings following extension of under ground power to Pittwater Road (to avoid creating an easement on Commonwealth land). The revised offer from Tasnetworks was only received recently.
iv. Revise shared path lighting to align with Airport interchange lighting which was changed from previously agreed fixture type to meet Air services Australia requirements.

Items ii to iv will be the subject of a change order. Can change order be provided ([redacted], if they are proceeding?) and add the activities onto the program please?

- *All stormwater runoff from impervious surfaces within the site must be treated and discharged from the site using WSUD to comply with the Stormwater System Management Plan. Detailed engineering designs must be submitted to the Council for approval prior to the commencement of works.* I can see a Stormwater Management Plan was completed in Apr 2020 and submitted to council during DA process, not sure why Council asked for this again within their DA condition? Has this been resolved? This will be dealt with when we submit the Roadworks Drawings to Council. The Drawings and associated reports address these matters and we don't expect that Council will require any changes to the submitted documents Can this be added onto the program please?
- *Engineering design showing road design, shared path design, road stormwater drainage, lot access, stormwater drainage and extent of any vegetation removal must be submitted and approved by Council and must clearly describe what works are being undertaken for each approved stage of the development.* Has this been done? As above for Drawings
- *Stormwater reticulation design is to be submitted for approval by Council prior to commencement of the use/ prior to the issue of a building permit or a certificate of likely compliance for building works.* Has this been completed? Is this in reference to the Golf Course Works. If so it should be resolved when the Drawings are submitted.
- *TasWater Notice – TasWater Engineering Design Approval for new TasWater infrastructure is required.* Has this been done? Taswater has conducted a preliminary assessment of the Drawings but will not provide final approval until we advise of landowner approval for works on private property. s 39 [redacted] Can this be added onto the program please?
- *The site may contain relics which are protected under the Aboriginal Relics Act 1975 and the applicant is therefore responsible to ensure compliance with the provisions of that Act. Applicants are advised to seek independent technical advice in relation to identification and protection of any relics.* Has aboriginal assessment been done? All resolved. There are no known values in our works area.
- You mentioned the new driveway at Milford will need a new DA, is this still in discussion with Milford? The department has committed to the driveway as this is required to obtain EPBC approval. The driveway design is being progressed by the designer. ETA? We have not started on the driveway as we are waiting on a quote from s 36 [redacted] the Landscape

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Architect for any additional work that might be needed on her drawings so they can form part of the construction set. A new change order will be submitted to complete the driveway design.

Thanks!

[redacted]

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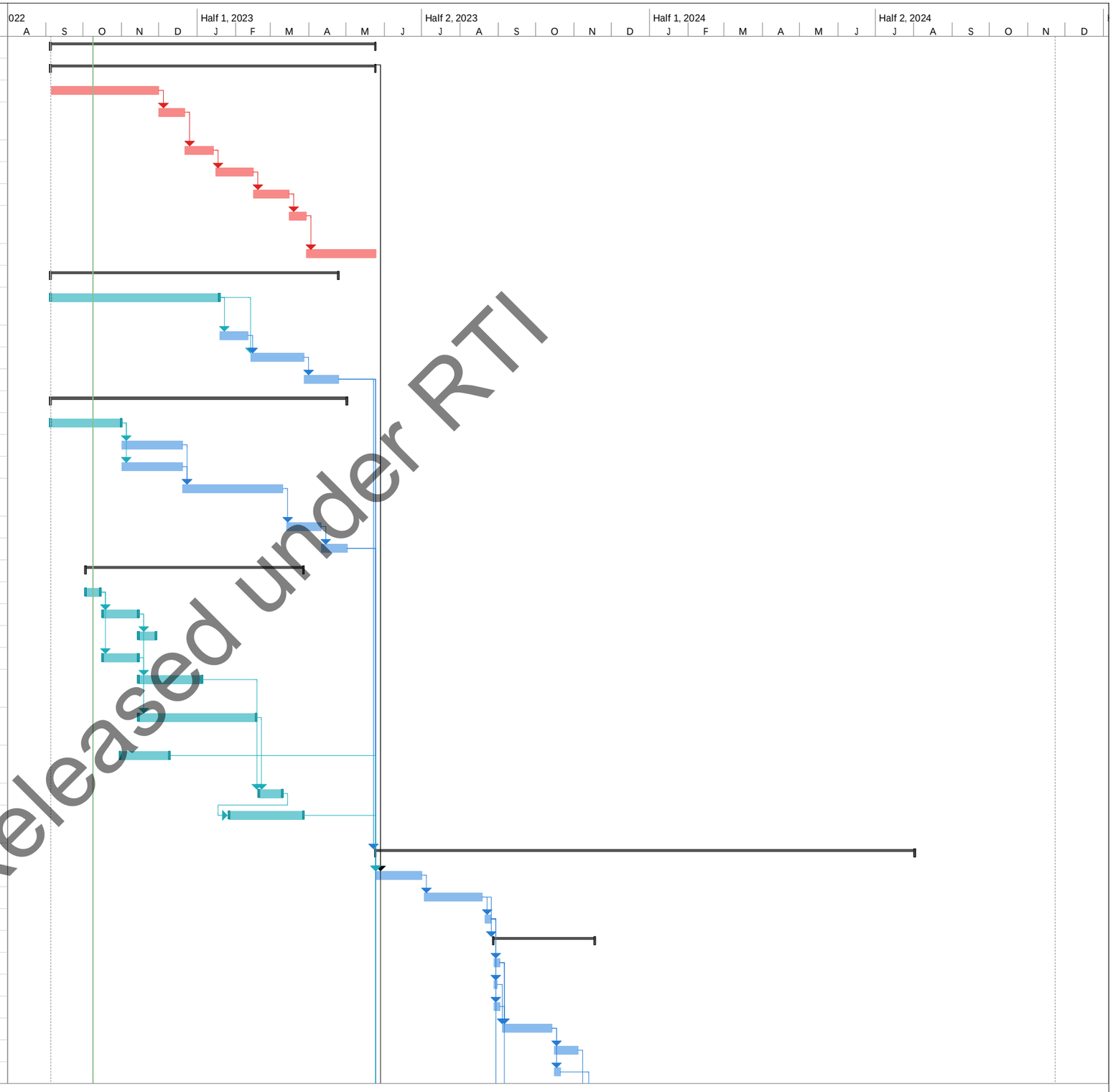
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Attachment 1

ID	Task Name	Duration	Start	Finish	Predecessors
1	Design and approvals	177 days	Mon 5/09/22	Wed 24/05/23	
2	EPBC Approval	177 days	Mon 5/09/22	Wed 24/05/23	
3	Complete Preliminary Documentation	62 days	Mon 5/09/22	Wed 30/11/22	
4	DCCEEW Approve Preliminary Documentation	15 days	Thu 1/12/22	Wed 21/12/22	3
5	Publish Preliminary Documentation	10 days	Thu 22/12/22	Fri 13/01/23	4
6	Advertising period	20 days	Mon 16/01/23	Tue 14/02/23	5
7	Respond to Public Comments	20 days	Wed 15/02/23	Wed 15/03/23	6
8	Amend Documentation and Re-Advertise	10 days	Thu 16/03/23	Wed 29/03/23	7
9	Minister's Decision	40 days	Thu 30/03/23	Wed 24/05/23	8
10	Golf Club Negotiations	155 days	Mon 5/09/22	Mon 24/04/23	
11	Negotiations with Golf Club on Compensation (By Crown Law)	90 days	Mon 5/09/22	Wed 18/01/23	
12	Draft licence for golf course works	15 days	Thu 19/01/23	Fri 10/02/23	11
13	Review licence and amend	30 days	Mon 13/02/23	Mon 27/03/23	12,11
14	Licence signed by Golf Club	20 days	Tue 28/03/23	Mon 24/04/23	13
15	Commonwealth Land Approval	160 days	Mon 5/09/22	Mon 1/05/23	
16	Agreement on Valuation	40 days	Mon 5/09/22	Mon 31/10/22	
17	Agreement by Commonwealth	35 days	Tue 1/11/22	Mon 19/12/22	16
18	Agreement by HIAPL	35 days	Tue 1/11/22	Mon 19/12/22	16
19	Draft terms by HIAPL & Commonwealth Solicitor	50 days	Tue 20/12/22	Fri 10/03/23	17,18
20	Review and amend	20 days	Tue 14/03/23	Mon 10/04/23	19
21	Sign off by all parties	15 days	Tue 11/04/23	Mon 1/05/23	20
22	Design finalisation	115 days	Mon 3/10/22	Mon 27/03/23	
23	Preliminary Design Milford Access	10 days	Mon 3/10/22	Fri 14/10/22	
24	Review Milford Access by Owner	20 days	Mon 17/10/22	Mon 14/11/22	23
25	Finalise Access Design	10 days	Tue 15/11/22	Mon 28/11/22	24
26	Milford Approval for Water Modificati	20 days	Mon 17/10/22	Mon 14/11/22	23
27	Taswater Approval for Water Modifications	30 days	Tue 15/11/22	Wed 4/01/23	26
28	Development Application for Milford Access	60 days	Tue 15/11/22	Fri 17/02/23	24
29	Submit Golf Course Drawing to Clarence City Council for Final	30 days	Mon 31/10/22	Fri 9/12/22	
30	Drawing Revisions for Highway Design	15 days	Mon 20/02/23	Fri 10/03/23	27,28
31	Submit Highway Drawings to Clarence City Council for Final Approval	40 days	Fri 27/01/23	Mon 27/03/23	30
32	Golf Course modification works	311 days	Thu 25/05/23	Thu 1/08/24	14
33	Call tenders	27 days	Thu 25/05/23	Fri 30/06/23	14,2,21,29
34	Assess tenders and award contract	35 days	Mon 3/07/23	Fri 18/08/23	33
35	Site establishment	5 days	Mon 21/08/23	Fri 25/08/23	34
36	Dam construction	60 days	Mon 28/08/23	Fri 17/11/23	34
37	Strip and prepare site	5 days	Mon 28/08/23	Fri 1/09/23	35
38	Diversion drain	3 days	Mon 28/08/23	Wed 30/08/23	35
39	Foundation improvement	5 days	Mon 28/08/23	Fri 1/09/23	35
40	Earthworks	30 days	Mon 4/09/23	Fri 13/10/23	37,38,39
41	Liner	15 days	Mon 16/10/23	Fri 3/11/23	40
42	Rock facing to northern wall	5 days	Mon 16/10/23	Fri 20/10/23	40

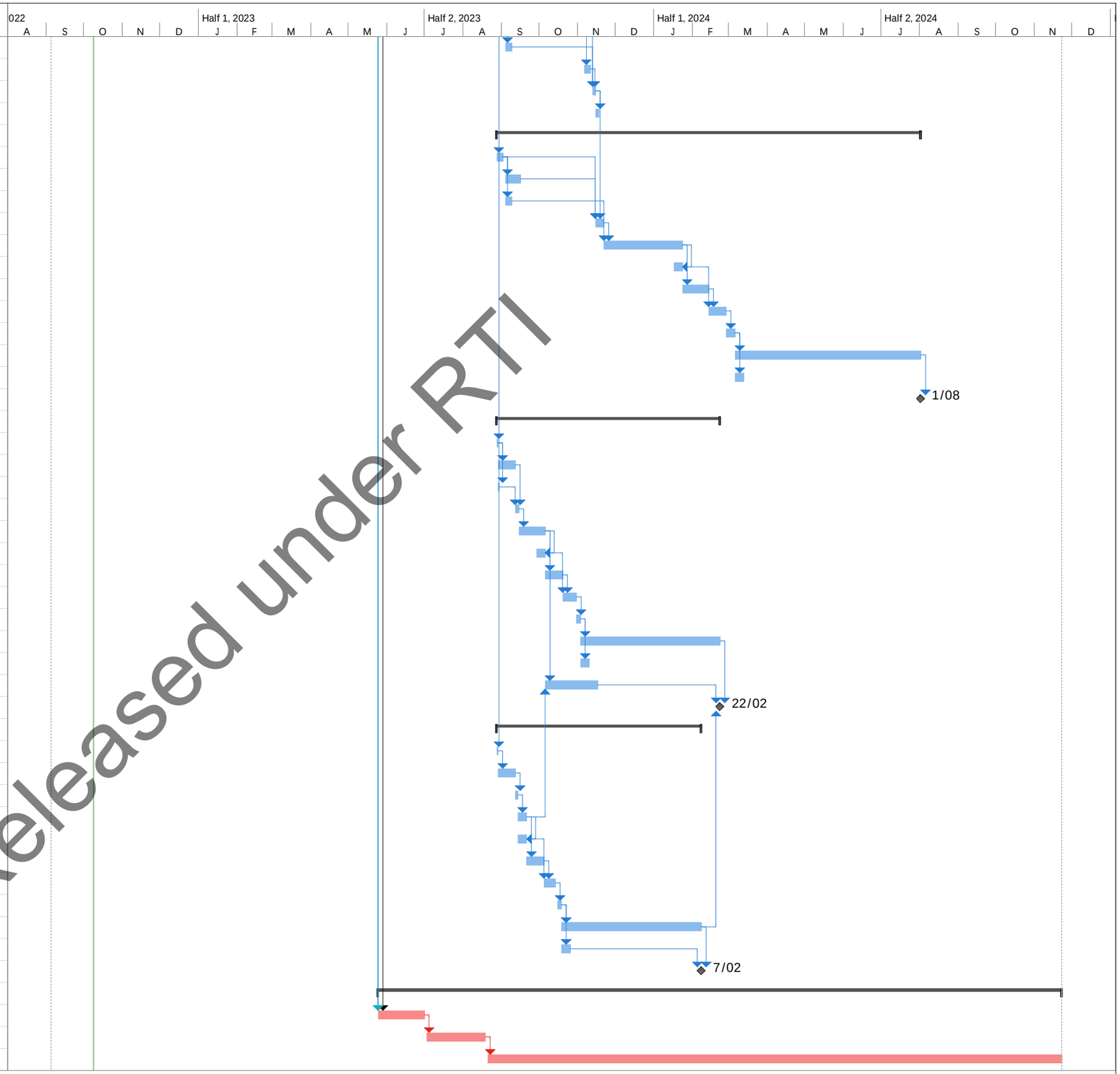


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Project: Golf Course Program 6
Date: Sun 9/10/22

Task — Summary — Inactive Milestone — Duration-only — Start-only — External Milestone — Critical Split
Split — Project Summary — Inactive Summary — Manual Summary Rollup — Finish-only — Deadline — Progress
Milestone — Inactive Task — Manual Task — Manual Summary — External Tasks — Critical — Manual Progress

ID	Task Name	Duration	Start	Finish	Predecessors
43	Pipe work and pump relocation	5 days	Mon 4/09/23	Fri 8/09/23	37
44	Security fence	5 days	Mon 6/11/23	Fri 10/11/23	41
45	Commissioning	2 days	Mon 13/11/23	Tue 14/11/23	43,44,42
46	Transfer water from existing dam	3 days	Wed 15/11/23	Fri 17/11/23	45
47	16th & 17th Fairway	244 days	Mon 28/08/23	Thu 1/08/24	
48	Erect barricades	5 days	Mon 28/08/23	Fri 1/09/23	35
49	Sprayout	10 days	Mon 4/09/23	Fri 15/09/23	48
50	Tree removal	5 days	Mon 4/09/23	Fri 8/09/23	48
51	Strip topsoil	5 days	Wed 15/11/23	Tue 21/11/23	48,49,45
52	Earthworks	45 days	Wed 22/11/23	Tue 23/01/24	51,50
53	Shape green	5 days	Wed 17/01/24	Tue 23/01/24	52FF
54	Irrigation	15 days	Wed 24/01/24	Tue 13/02/24	52
55	Topsoil	10 days	Wed 14/02/24	Tue 27/02/24	54,53
56	Seeding	5 days	Wed 28/02/24	Tue 5/03/24	55
57	Grow in	107 days	Wed 6/03/24	Thu 1/08/24	56
58	Landscaping	5 days	Wed 6/03/24	Tue 12/03/24	56
59	Completion	0 days	Thu 1/08/24	Thu 1/08/24	57
60	Practice area	129 days	Mon 28/08/23	Thu 22/02/24	
61	Erect barricades	1 day	Mon 28/08/23	Mon 28/08/23	35
62	Sprayout	10 days	Tue 29/08/23	Mon 11/09/23	61
63	Tree removal	1 day	Tue 29/08/23	Tue 29/08/23	61
64	Strip topsoil	3 days	Tue 12/09/23	Thu 14/09/23	63,62
65	Earthworks	15 days	Fri 15/09/23	Thu 5/10/23	64
66	Shape greens and bunkers	5 days	Fri 29/09/23	Thu 5/10/23	65FF
67	Irrigation	10 days	Fri 6/10/23	Thu 19/10/23	65
68	Topsoil	7 days	Fri 20/10/23	Mon 30/10/23	66,67
69	Seeding	3 days	Tue 31/10/23	Thu 2/11/23	68
70	Grow in	80 days	Fri 3/11/23	Thu 22/02/24	69
71	Landscaping	5 days	Fri 3/11/23	Thu 9/11/23	69
72	Carpark and facilities	30 days	Fri 6/10/23	Thu 16/11/23	65,78
73	Completion	0 days	Thu 22/02/24	Thu 22/02/24	70,83,72
74	1st Green and 2nd Tee	118 days	Mon 28/08/23	Wed 7/02/24	
75	Erect barricades	1 day	Mon 28/08/23	Mon 28/08/23	35
76	Spray out	10 days	Tue 29/08/23	Mon 11/09/23	75
77	Strip topsoil	2 days	Tue 12/09/23	Wed 13/09/23	76
78	Earthworks	5 days	Thu 14/09/23	Wed 20/09/23	77
79	Shape greens and bunkers	5 days	Thu 14/09/23	Wed 20/09/23	78FF
80	Irrigation	10 days	Thu 21/09/23	Wed 4/10/23	78
81	Topsoil	7 days	Thu 5/10/23	Fri 13/10/23	79,80
82	Seeding	3 days	Mon 16/10/23	Wed 18/10/23	81
83	Grow in	80 days	Thu 19/10/23	Wed 7/02/24	82
84	Landscaping	5 days	Thu 19/10/23	Wed 25/10/23	82
85	Completion	0 days	Wed 7/02/24	Wed 7/02/24	83,84
86	Highway construction	392 days	Thu 25/05/23	Fri 22/11/24	
87	Call tenders	27 days	Thu 25/05/23	Fri 30/06/23	2,14,21,31
88	Assess tenders and award contract	35 days	Mon 3/07/23	Fri 18/08/23	87
89	Construction - stage 1	330 days	Mon 21/08/23	Fri 22/11/24	88



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Project: Golf Course Program 6
Date: Sun 9/10/22

Task — Summary — Inactive Milestone — Duration-only — Start-only — External Milestone — Critical Split
Split — Project Summary — Inactive Summary — Manual Summary Rollup — Finish-only — Deadline — Progress
Milestone — Inactive Task — Manual Task — Manual Summary — External Tasks — Critical — Manual Progress

SETS - Tasman Highway at Tasmania Golf Club - RISK MANAGEMENT REGISTER
06 October 20222019

ID No.	Category	Risk and/or Opportunity Description	Likelihood	Consequence	Risk Level	Project Specific Treatment	Residual Likelihood	Residual Consequence	Residual Risk Level	Owner / Responsibility	Date Identified	Due Date	Date Resolved
1	1 - Implementation	Complexity of process to acquire land from Hobart International Airport which is owned by the Commonwealth of Australia results in delays to commencement of construction	C - Possible	4 – Major	High	~~Extent of land required to be established early to enable commencement of acquisition process~~Survey Plans completed, Valuers to meet to agree land value (expected mid November), s 39 [redacted]	C - Possible	3 – Moderate	Medium	s 36	15/05/2019		
2	5 - Approvals	Impact on orchids is deemed a controlled action under EPBC resulting in delays to commencement of construction	D - Likely	4 – Major	High	~~Selection of preferred concept to be confirmed early to enable process to be commenced.~~Project has been deemed a significant action. Negotiations underway with property owener to determine Offset and associated management actions ahead of finalising Preliminary Documentation for advertising. Expect 6 month time frame for approval following advertsing.	C - Possible	3 – Moderate	Medium	s 36 [redacted]	15/05/2019		
	~~5 - Approvals~~	~~Referral required but not deemed a controlled action and timeliness of approval results in delays to commencement of construction~~	~~C - Possible~~	~~3 – Moderate~~	Medium	AS ABOVE	B - Unlikely	2 – Minor	Low	s 36	15/05/2019		
3	1 - Implementation	Acquisition from Tasmania Golf Club results in costs exceeding available budget	C - Possible	4 – Major	High	~~Advice to be sought from Valuer General's office regarding acquisition costs for Golf Club~~ ~~Options to minimise impact on golf club to be investigated.~~s 39 [redacted]	B - Unlikely	3 – Moderate	Medium	s 36	15/05/2019		1/08/2022
4	6 - Construction	Extent of soft foundations result in costs exceeding budget	C - Possible	3 – Moderate	Medium	~~Geotechnical investigations to confirm extent and develop engineering solutions to inform cost estimation.~~ Resolved, no foundation issues	B - Unlikely	3 – Moderate	Medium	s 36	15/05/2019		1/07/2021
5	2 - Scope	Scope change due to political direction results in delay to commencement of construction	C - Possible	4 – Major	High	~~Minister to be kept updated regarding stakeholder matters and design development progress to align with project direction~~Scope mostly unchanged from concept	B - Unlikely	4 – Major	Medium	s 36	15/05/2019		1/07/2021
6	2 - Scope	Timeliness of decision making leads to delays in design development resulting in delay to commencement of construction	C - Possible	3 – Moderate	Medium	~~Protocol for steering committee to be developed and integrated in Project Management Plan~~Resolved	B - Unlikely	3 – Moderate	Medium	s 36	15/05/2019		1/12/2020
7	3 - Stakeholder	Dissatisfied stakeholders results in media attention	C - Possible	4 – Major	High	~~Justification for decisions regarding preferred option to be conveyed to all stakeholders~~ ~~Stakeholder Engagement Plan to be reviewed and updated on a regular basis.~~s 39 [redacted]	B - Unlikely	4 – Major	Medium	[redacted]	15/05/2019		

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ID No.	Category	Risk and/or Opportunity Description	Likelihood	Consequence	Risk Level	Project Specific Treatment	Residual Likelihood	Residual Consequence	Residual Risk Level	Owner / Responsibility	Date Identified	Due Date	Date Resolved
8	7 - Other	Design input from public utility authorities causes delay to other design activities	C - Possible	3 – Moderate	Medium	~~Seek early meeting with potentially effected utility owners to ensure they are onboard with delivery timeframes and to avoid requests for additional information~~. Resolved apart from final approval from Taswater	B - Unlikely	2 – Minor	Low	s 36	15/05/2019		
9	5 - Approvals	Development Application appealed resulting in delay to commencement of construction	C - Possible	4 – Major	High	~~Justification for decisions regarding preferred option to be conveyed to all stakeholders~~ ~~Stakeholder Engagement Plan to be reviewed and updated on a regular basis.~~DA approved, final approval of drawings required by CCC. This should be a formality	B - Unlikely	4 – Major	Medium	s 36	15/05/2019		
10	2 - Scope	Golf club/Milford land is valued as higher use	C - Possible	2 – Minor	Medium	~~Review cost with Valuer General~~. Resolved, costs within range of estimate predictions	C - Possible	2 – Minor	Medium	s 36	16/05/2019		1/07/2021
11	2 - Scope	Service alteration costs exceed estimate	C - Possible	3 – Moderate	Medium	~~Review when authority estimates have been received~~. Resolved, costs within estimate predictions	C - Possible	3 – Moderate	Medium	s 36	17/05/2019		1/06/2022
12	2 - Scope	Extent of pavement rehabilitation on existing carriageway	C - Possible	3 – Moderate	Medium	~~Review when test pits completed. Minimal~~No rehabilitation of existing carriageway required based on test pitting.	B - Unlikely	7 – Major	High	s 36	18/05/2019		1/06/2021
13	2 - Scope	Retaining wall at Golf Club	D - Likely	2 – Minor	Medium	~~Review when survey/design completed~~. Two retaining walls required, within budget	D - Likely	2 – Minor	Medium	s 36	19/05/2019		1/06/2021
14	2 - Scope	ITS requirements at Pittwater Junction	D - Likely	3 – Moderate	High	~~Review when junction layout confirmed~~. Advance warning flashing lights implemented, within budget	B - Unlikely	3 – Moderate	Medium	s 36	20/05/2019		1/06/2021
15	6 - Construction	Contract claim during construction	C - Possible	3 – Moderate	Medium	Quality and completeness of documentation, comprehensive investigations, performance requirements in the specification, clarification of risk allocations between Contractor and Principal	C - Possible	2 – Minor	Medium	s 36	21/05/2019		
16			C - Possible	11 – Major	Low		B - Unlikely	11 – Major	Low		22/05/2019		

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Attachment 4

Department of Primary Industries, Parks, Water and Environment

Agriculture and Water Division

GPO Box 44, Hobart, Tasmania, 7001
Web www.dpipwe.tas.gov.au

Tasmanian Government

2 December 2021

Inquiries: Leina Woolley
Phone: 6165 3006
E-mail: leina.woolley@dpipwe.tas.gov.au
Our Ref: D21-166452

Department of State Growth
PO Box 94
Hobart TAS 7001

Department of State Growth
-7 DEC 2021
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Dear Sir/Madam

NOTICE OF DECISION - DAM WORKS PERMIT NUMBER 2021010133

In accordance with section 157 of the *Water Management Act 1999* (the Act), I wish to advise that your application has been approved and a Permit to Undertake Dam Works in relation to the construction of a 24.0 megalitre (ML) offstream dam at Cambridge – Dam Works Permit Number 2021010133 has been granted.

Having considered the application in accordance with section 155 of the Act, I as the Minister's delegate have imposed the following conditions on the Permit in accordance with section 164 of the Act:

"The dam works authorised by this Permit must be carried out in accordance with the Division 3 Permit Dam Works Code 2015 ("the Code" - enclosed)". This condition is designed to ensure that the authorised dam works achieve appropriate dam safety and environmental management objectives. Accordingly, it is recommended that you read and understand the requirements of the Code.

"The dam works authorised by this Permit must be carried out in accordance with the "Plans – Tasmania Golf Course Dam", dated 2July 2021, prepared by Pitt & Sherry, Departmental reference D21-115455". This condition is designed to ensure a sound dam is constructed and to minimise the potential of any adverse impacts upon natural values arising from the dam works.

"The dam works authorised by this Permit must be carried out in accordance with the Dam Works Code to Clear Vegetation 2015 (enclosed)". This condition is designed to ensure that the authorised dam works meet the required standards for the protection of environmental values, which apply to the clearance of vegetation undertaken as part of dam works authorised under a Division 3 permit.

"No more than seven (7) days before the dam works authorised by this Permit are to commence the permit holder must undertake a survey for masked owl nests in large hollow bearing trees which are proposed to be removed. If any masked owl nests are found, then the Policy, Advice and Regulatory Services Branch of DPIPWE should be contacted for further advice." A number of trees within the dam footprint provide potential nesting habitat for the enndangered masked owl (*Tyto novaehollandiae subsp. Castanops*). These birds pair for life, occupying a permanent territory and relying on hollows in old-growth trees for nesting and roosting. The main threats to the Tasmanian Masked Owl are clearing of nesting/roosting and foraging habitat (particularly tree hollows), consequently all steps should be taken to minimise loss of nests.

I note that the Department received a representation to the proposed works raising concerns that the resulting dam may increase the risk of bird strikes at the Hobart International Airport. While the Department is satisfied that the risk of bird strike is unlikely to be increased by the

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construction of this dam, the dam owner should be advised to implement appropriate measures to prevent the aggregation of birds on the dam once it has been built.

Under Part 14 of the Act, you have the right to apply to the Minister to review this decision, this application must be made in writing within 14 days.

Additionally, Under Part 14 of the Act, you have the right of appeal against the decision to the Resource Management and Planning Appeals Tribunal (RMPAT). To exercise this right, you must apply in writing to the RMPAT within fourteen (14) days after the date of this Notice.

Please note that the Dam Works Permit does not take effect until the appeal period has expired and any appeals have been resolved. You will then be advised in writing as to the date the Permit takes effect. If you do not wish to appeal, you may waive your right by writing to me prior to the 14 days appeal period expiring.

I would note that the dam works permit is limited to the area of the dam footprint and does not cover clearance or damage to native vegetation outside of the dam footprint. Given that there are areas of *Eucalyptus viminalis - Eucalyptus globulus coastal forest and woodland* communities and saline sedgeland and herb land in close proximity to the dam footprint, it is strongly recommended that machinery exclusion zones are established to minimise the risk of any adverse impacts on these areas outside of the dam footprint.

I would also note that the assessment of the application did not identify a high risk of impact on heritage values. However please be advised that should any relics be identified during the dam works you should follow the Unanticipated Discovery Plan (enclosed) in order to comply with the requirements of the Aboriginal Heritage Act 1975.

Also, it is important to note that by virtue of s163(2)(b) of the *Water Management Act 1999*, a dam works permit does not authorise the undertaking of the dam works without the consent of the owner of the land on which those works are to be undertaken. This includes any land that may be inundated by water at the dam's full supply level. Accordingly, it is recommended that a formal written agreement is made between the parties prior to commencing any works.

If you wish further information in relation to our requirements or require electronic copies of any of the attached documents, please contact Leina Woolley on the number above.

Yours sincerely

s 36 [redacted]

Bryce Graham
Manager
WATER MANAGEMENT AND ASSESSMENT BRANCH

Enclosures Division 3 Permit Dam Works Code 2015
Dam Works Code to Clear Vegetation 2015
Unanticipated Discovery Plan

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Unanticipated Discovery Plan

Procedure for the management of unanticipated discoveries of Aboriginal relics in Tasmania

For the management of unanticipated discoveries of Aboriginal relics in accordance with the *Aboriginal Heritage Act 1975* and the *Coroners Act 1995*. The Unanticipated Discovery Plan is in two sections.

Discovery of Aboriginal Relics other than Skeletal Material

Step 1:
Any person who believes they have uncovered Aboriginal relics should notify all employees or contractors working in the immediate area that all earth disturbance works must cease immediately.

Step 2:
A temporary 'no-go' or buffer zone of at least 10m x 10m should be implemented to protect the suspected Aboriginal relics, where practicable. No unauthorised entry or works will be allowed within this 'no-go' zone until the suspected Aboriginal relics have been assessed by a consulting archaeologist, Aboriginal Heritage Officer or Aboriginal Heritage Tasmania staff member.

Step 3:
Contact Aboriginal Heritage Tasmania on **1300 487 045** as soon as possible and inform them of the discovery. Documentation of the find should be emailed to **aboriginal@heritage.tas.gov.au** as soon as possible. Aboriginal Heritage Tasmania will then provide further advice in accordance with the *Aboriginal Heritage Act 1975*.

Discovery of Skeletal Material

Step 1:
Call the Police immediately. Under no circumstances should the suspected skeletal material be touched or disturbed. The area should be managed as a crime scene. It is a criminal offence to interfere with a crime scene.

Step 2:
Any person who believes they have uncovered skeletal material should notify all employees or contractors working in the immediate area that all earth disturbance works cease immediately.

Step 3:
A temporary 'no-go' or buffer zone of at least 50m x 50m should be implemented to protect the suspected skeletal material, where practicable. No unauthorised entry or works will be allowed within this 'no-go' zone until the suspected skeletal remains have been assessed by the Police and/or Coroner.

Step 4:
If it is suspected that the skeletal material is Aboriginal, Aboriginal Heritage Tasmania should be notified.

Step 5:
Should the skeletal material be determined to be Aboriginal, the Coroner will contact the Aboriginal organisation approved by the Attorney-General, as per the *Coroners Act 1995*.

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Aboriginal Heritage Tasmania
Department of Primary Industries, Parks, Water and Environment

Tasmanian Government

Guide to Aboriginal site types

Stone Artefact Scatters

A stone artefact is any stone or rock fractured or modified by Aboriginal people to produce cutting, scraping or grinding implements. Stone artefacts are indicative of past Aboriginal living spaces, trade and movement throughout Tasmania. Aboriginal people used hornfels, chalcedony, spongelite, quartzite, chert and silcrete depending on stone quality and availability. Stone artefacts are typically recorded as being 'isolated' (single stone artefact) or as an 'artefact scatter' (multiple stone artefacts).

Shell Middens

Middens are distinct concentrations of discarded shell that have accumulated as a result of past Aboriginal camping and food processing activities. These sites are usually found near waterways and coastal areas, and range in size from large mounds to small scatters. Tasmanian Aboriginal middens commonly contain fragments of mature edible shellfish such as abalone, oyster, mussel, warrener and limpet, however they can also contain stone tools, animal bone and charcoal.

Rockshelters

An occupied rockshelter is a cave or overhang that contains evidence of past Aboriginal use and occupation, such as stone tools, middens and hearths, and in some cases, rock markings. Rockshelters are usually found in geological formations that are naturally prone to weathering, such as limestone, dolerite and sandstone

Quarries

An Aboriginal quarry is a place where stone or ochre has been extracted from a natural source by Aboriginal people. Quarries can be recognised by evidence of human manipulation such as battering of an outcrop, stone fracturing debris or ochre pits left behind from processing the raw material. Stone and ochre quarries can vary in terms of size, quality and the frequency of use.

Rock Marking

Rock marking is the term used in Tasmania to define markings on rocks which are the result of Aboriginal practices. Rock markings come in two forms; engraving and painting. Engravings are made by removing the surface of a rock through pecking, abrading or grinding, whilst paintings are made by adding pigment or ochre to the surface of a rock.

Burials

Aboriginal burial sites are highly sensitive and may be found in a variety of places, including sand dunes, shell middens and rock shelters. Despite few records of pre-contact practices, cremation appears to have been more common than burial. Family members carried bones or ashes of recently deceased relatives. The Aboriginal community has fought long campaigns for the return of the remains of ancestral Aboriginal people.

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Further information on Aboriginal Heritage is available from:

Aboriginal Heritage Tasmania
Natural and Cultural Heritage Division
Department of Primary Industries, Parks, Water and Environment
GPO Box 44 Hobart TAS 7001

Telephone: **1300 487 045**
Email: **aboriginal@heritage.tas.gov.au**
Web: **www.aboriginalheritage.tas.gov.au**

This publication may be of assistance to you but the State of Tasmania and its employees do not accept responsibility for the accuracy, completeness, or relevance to the user's purpose, of the information and therefore disclaims all liability for any error, loss or other consequence which may arise from relying on any information in this publication.

Tasmanian Government

Division 3 Permit
Dam Works Code 2015

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A Code issued pursuant to section 301 of the *Water Management Act 1999*

December 2015

Department of Primary Industries, Parks
Water and Environment

Tasmanian
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PART 1 INTRODUCTION

1.1 Division 3 permit

The *Water Management Act 1999* (the Act) provides for the sustainable management and allocation of Tasmania's water resources. Part 8 of the Act regulates dam works and provides for the issuing of dam works permits which authorise the undertaking of dam works.

Part 8 of the Act provides two pathways to obtaining a dam works permit. The first pathway provides for a Division 3 permit[1], obtained through an application and assessment process. The second pathway provides for a Division 4 permit, which is obtained without the need to make an application. A person is entitled to a Division 4 permit if their dam works meet the criteria specified under section 159 of the Act. The Division 4 permit pathway is not discussed further.

1.2 Legal obligations

A person undertaking dam works authorised by a Division 3 permit is entitled to some permit/approval exemptions under other Acts. For example, a permit or special permit is not required under section 60A of the *Land Use Planning and Approvals Act 1993*.

However, holding a dam works permit does not absolve a permit holder from other legal obligations under the *Water Management Act 1999* or other Acts. For example, a person holding a dam works permit may need to:

- apply for an authority to take water into the dam, under the *Water Management Act 1999*;
- determine whether, under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*, an action will require approval from the Commonwealth Minister for the Environment if it has, will have, or is likely to have a significant impact on a matter of national environmental significance;
- apply for a permit under the *Aboriginal Relics Act 1975*, if the dam works are going to interfere with an Aboriginal relic;
- obtain a certified Forest Practices Plan under the *Forest Practices Act 1985* to harvest more than six tree ferns (*Dicksonia antarctica*);
- undertake action, under the *Weed Management Act 1999*, against declared weed species.

Off-site activities associated with dam works may also require authorisation under other legislation. This may include providing access to the site (e.g. development or upgrading of roads) or operating an off-site quarry (borrow pit). Prior to dam works commencing, dam works permit holders will need to ensure that all the appropriate authorisations for off-site activities have been obtained from the relevant agency or local council.

The limited examples of potential legal obligations set out above should not be taken to be an exhaustive list and provides guidance only. The onus is on dam works permit holders to make themselves aware of all their obligations under the *Water Management Act 1999* or any other Act, prior to commencing dam works.

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[1] Section 138 of the Act defines a Division 3 permit issued under section 158.

PART 2 *DIVISION 3 PERMIT DAM WORKS CODE 2015* - OVERVIEW

2.1 Purpose of this Code

The purpose of the *Division 3 Permit Dam Works Code 2015* is to prescribe minimum design, construction and environmental standards that apply to dam works authorised under a Division 3 permit.

2.2 Authority of this Code

Pursuant to section 301 of the *Water Management Act 1999*, a code of practice may be issued in respect of dam works and related matters. This Code has been issued under section 301(1)(b) for the purposes of dam works authorised under a Division 3 permit.

This Code is administered by the Department for Primary Industries, Parks, Water and Environment on behalf of the Minister for Primary Industries and Water.

2.3 Application of this Code

This Code applies to all dam works, including constructing a new dam and repairing, modifying or removing an existing dam, that are authorised under a Division 3 permit.

2.4 Format

Part 3 of this Code, *Planning*, prescribes requirements for site investigations and planning that must be undertaken in relation to all dam works authorised under a Division 3 permit.

Part 4 of this Code, *Design Standards*, prescribes minimum design standards that apply to all dam works, with the exception of removal of an existing dam, authorised under a Division 3 permit.

Part 5 of this Code, *Minimum Construction Standards*, prescribes minimum construction standards that apply to all dam works, with the exceptions of (1) removal of an existing dam, authorised under a Division 3 permit and (2) dam works subject to a Department approved Preconstruction Report.

Part 6 of this Code, *Repair or Modification of an Existing Dam*, prescribes additional requirements that apply when repairing or modifying an existing dam authorised under a Division 3 permit.

Part 7 of this Code, *Removal of an Existing Dam*, prescribes additional requirements that apply when removing an existing dam authorised under a Division 3 permit.

Part 8 of this Code, *Other Obligations of Dam Works Permit Holders*, provides advice in regard to other legal obligations including dam safety and notice of completion of dam works.

2.5 Compliance requirements

Compliance with this Code is a condition of a Division 3 permit. Under the Act, non-compliance with dam works permit conditions is a breach of the permit and the holder is liable to enforcement action.

Dam works permit holders should ensure that staff, contractors and their employees are familiar with, and observe, those aspects of this Code applicable to dam works undertaken.

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PART 3 PLANNING

3.1 Site investigations

Before undertaking dam works the permit holder must make a thorough investigation of the site to establish the nature of the foundation and to locate sufficient suitable clay material to use in the embankment.

3.2 Site planning

Before commencing dam works, permit holders must prepare a dam works site plan that accurately shows the:

- location of the dam wall, or proposed dam wall; and
- siting of the proposed dam works construction footprint[2]; and
- inundation area at full supply level (FSL) and maximum flood level (MFL)[3]; and
- contours of the land; and
- mapped[4], or otherwise known, significant features[5].

Note: the basis of a site plan may be produced on LISTMAP by:

1. entering the following URL into your web browser - http://maps.thelist.tas.gov.au/listmap/app/list/map?bookmarkId=99801#.Vkqd8bQWVjI.email ;
2. selecting 'Tools' > 'Drawing Tools' > 'Add an Area on the Map' (at the top left of LISTmap), then using the selected tool to draw the proposed inundation and dam works footprint on the map; or alternatively
    a. importing a shape file of the dam/inundation footprint; or
    b. simply drawing the dam/inundation footprint on a hard copy of a printed map.
3. Identifying any known significant features not available on the LISTmap dam layer.

3.3 Notice of Intention

A *Notice of Intention to Commence Dam Works under a Division 3 Permit* must be submitted to the Department before dam works commence. Dam works must not commence prior to the nominated start date on this notice, unless otherwise authorised by the Department.

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[2] **dam works footprint** means the total area of land on which dam works are to be undertaken under a Division 3 permit including the dam wall, spillway, the land to be inundated and any land on which clearance of vegetation is to be undertaken under a permit.

[3] not required for removal of an existing dam;

[4] **mapped** means as mapped on LISTmap, Natural Values Atlas, CFEV and salinity mapping available at: http://dpipwe.tas.gov.au/Documents/salinity-mapA0-web.pdf

[5] **significant features** include water resources, contour lines, public and private assets, reserves, recorded threatened species, mapped or known threatened native vegetation communities, nests of a threatened species, significant habitat for a threatened species, mapped or known biosecurity risks including weeds, pests and diseases, landslide hazard areas, any trees to be cleared or harvested, potential/known acid sulfate soil areas, high conservation value freshwater-dependant ecosystems, potential/known saline soil areas, potential/known contaminated land, road or rail infrastructure or easements, electricity or gas infrastructure or easements, conservation covenants, heritage listed property, known aboriginal relics, caves, listed geoconservation sites.

3.4 Supervision

Dam works must be supervised by a person with the appropriate level of competence. The permit holder must ensure that supervision of the following activities is undertaken in accordance with the competencies set out in the *Water Management (Safety of Dams) Regulations 2015*:

(i) selection of a suitable construction contractor;

(ii) compliance with all approved specifications;

(iii) selection of materials;

(iv) foundation preparation;

(v) excavation of the cut off trench;

(vi) placement and backfilling of the outlet pipe;

(vii) placement and compacting of embankment material and internal drains;

(viii) construction of a flood spillway;

(ix) provision of flood spillway erosion prevention;

(x) installation of infrastructure for seepage collection and flow rate and turbidity monitoring at the downstream toe;

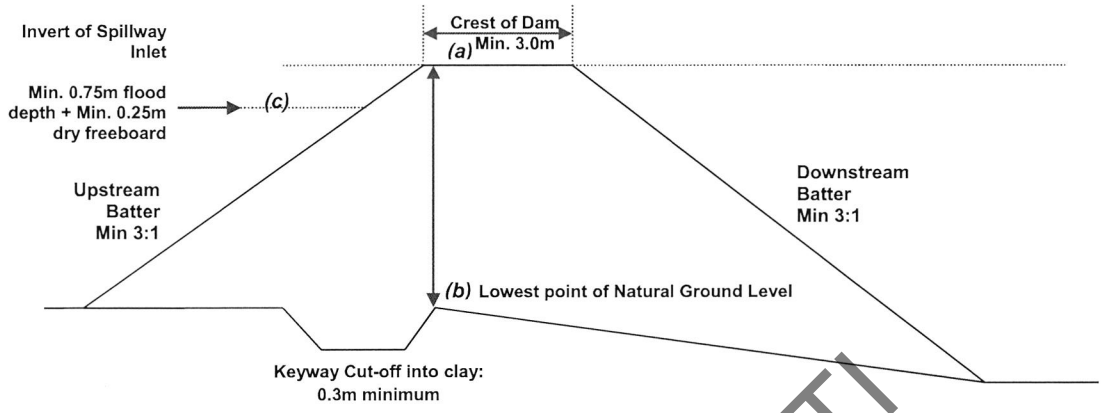
(xi) provision of effective wave erosion protection to the upstream batter;

(xii) provision of effective erosion protection to the downstream toe of the embankment;

(xiii) any other aspect of undertaking dam works that the site engineer considers supervision necessary to ensure that a safe dam is built at the permitted location and is required in certifying the Work-as-Executed Report.

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PART 4 DESIGN STANDARDS



Note: The cut-off trench is required to be taken down a minimum of 300 mm into impervious soil and backed filled with good quality clay that is thoroughly compacted.

Figure 1. Dam Cross Section

1. The **maximum height of the proposed dam wall** (i.e. height from Point (a) to Point (b) on Figure 1) must not exceed the height specified on the dam works permit.

2. The **minimum width of the crest of the proposed dam wall** must be 3.0 m for dams with a wall height, at or greater than, 1.0 m (location of crest is noted on Figure 1).

3. The **minimum upstream batter slope** must be 3:1 for dams with a wall height at, or greater than, 1.0 m (location of batter is noted on Figure 1).

4. The **minimum downstream stream batter slope** must be 3:1 for dams with a wall height at, or greater than, 1.0 m (location of batter is noted on Figure 1).

5. The **minimum spillway width** must be 3.0 m for dams on a watercourse or with a catchment area of up to 40 ha.

6. The **minimum spillway flood depth** must be 0.75 m for dams on a watercourse or with a catchment area of up to 40 ha.

7. The **minimum dry freeboard depth** must be 0.25 m for dams with a fetch distance* up to 300 m (*the distance from the dam wall to the upper most extent of the backup water).

8. The **minimum outlet pipe size** must be a nominal diameter of 150 mm for all dams on a watercourse or with a storage capacity at or greater than 10 ML, with a valve to suit.

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PART 5 MINIMUM CONSTRUCTION STANDARDS

Part 5 does not apply to dam works subject to a Department approved Preconstruction Report. Where a Departmental approved Preconstruction Report exists, refer to the approved Preconstruction Report for construction standards.

5.1 Reference bench mark

For dams with a capacity greater than 10 ML, before commencing dam works, permit holders must:

(i) install a reference benchmark; and

(ii) keep a record of the Reduced Level (metres) and the coordinates of the height datum reference until dam works are completed.

The reference bench mark must not be removed, damaged or tampered with for the life of the dam.

Note: The reference bench mark must be reported in the *Notice of Completion of Dam Works Under a Division 3 Permit*[6].

5.2 Clearing of the dam site

The area to be covered by the embankment must be pegged out prior to commencement of works and this, and the area to be excavated, must be cleared and grubbed.

Topsoil must be heaped in areas outside the area to be covered by the embankment and all trees, scrub and roots removed. Topsoil must be placed in layers not exceeding 200 mm in depth and planted with grass if it is to be left for more than 6 months before being placed back onto the completed dam. This will conserve the integrity of the topsoil.

All saturated material in the embankment area must be pushed well clear of the site and not used in the embankment in its saturated state.

5.3 Foundation

The base of the embankment must be stripped of all topsoil, silt, loose material, vegetable matter and then scarified over its whole area.

5.4 Keyway

A keyway at least 2.5 m wide must be excavated under the centre section of the embankment. The keyway must be at least 0.3 m in depth into impervious soil, or solid rock, and backfilled with the appropriate quality clay, then thoroughly compacted. The keyway must extend for the entire length of the embankment including the hillside flanks, and must continue to the height of the embankment.

5.5 Rock

If rock is encountered under the embankment, appropriate measures must be taken to cut off seepage through the rock/soil interface and to prevent seepage in the rock joints coming into contact with the embankment soil. Such measures might involve the use of bentonite and a mortar or shotcrete blanket over the rock.

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[6] Required under section 164ZA of the *Water Management Act 1999*.

5.6 Outlet pipe materials and installation

The preferred outlet pipe material is High Density Polyethylene (HDPE) with a nominal pressure rating of at least PN 6.3. When selecting an appropriate pressuring rating, consideration should be given to the height of the dam and the head of water in the dam. For example, a pipe with a PN of 6.3 has a nominal pressure or head of 63 m or 630 kPa and would suit a dam with a height of up to 63 m. This is the lowest nominal pressure head that can be purchased commercially for HDPE pipe.

When installing outlet pipes, the following procedures must be followed:

(i) a separate trench must be dug at natural ground level, not through any formed embankment, for the pipe to lay in;

(ii) HDPE pipe lengths are to be joined by either fusion welding or, if they need to be disassembled, the pipe can by joined by Vitaulic joints (or depending on the application, a mixture of both);

(iii) after joining of pipes, pressure testing will need to be undertaken to ensure that there are no leaks;

(iv) the installation of baffle plates affixed to HDPE pipe must be constructed from HDPE material and each baffle plate must be at least 600 mm x 600 mm in dimension and 20 mm thick;

(v) baffle plates must be placed over the length of the pipe at regular intervals, with a minimum of two baffle plates installed;

(vi) clay must be hand-tamped with an appropriate hand held tamping machine such as a Wacker Packer, up to slightly above the top of the installed pipe so as not to damage or crush the pipe during embankment construction;

(vii) the intake end of the outlet pipe must be fitted with a screen and encased in a concrete anchor block;

(viii) the discharge end of the outlet pipe must be fitted with a valve to suit the diameter of the pipe.

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5.7 Borrow pits

When rock is exposed in the excavation area, no attempt should be made to excavate into the rock. All exposed areas of gravel, jointed rock or other porous material in the storage area and under the embankment must be covered with at least 300 mm of compacted clay to ensure water tightness.

5.8 Embankment compaction

For dams with a wall height at, or greater than, 3.0 m, compaction must be undertaken with a tamper foot roller (sheeps foot roller) as follows:

(i) all fill material for the embankment is to be placed in layers (or lifts) no greater than 150 mm thick;

(ii) the largest size particle should not be greater than one third the height of the lift, that is, 50 mm;

(iii) each layer should be thoroughly compacted before the next layer is placed, with a minimum of 6 passes per layer required;

(iv) the minimum compaction effort is to be at 95% standard maximum dry density (MDD), with an average of 98% MDD being achieved; or standard Proctor (non-structural fill) as

Dam Works Code to Clear Vegetation 2015

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A Code issued pursuant to section 301 of the *Water Management Act 1999*.

December 2015

Department of Primary Industries, Parks
Water and Environment

Tasmanian Government

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PART 1 INTRODUCTION

1.1 Division 3 Dam Works Permit

The *Water Management Act 1999* (the Act) provides for the sustainable management and allocation of Tasmania's water resources. Part 8 of the Act regulates dam works and provides for the issuing of dam works permits which authorise the undertaking of dam works.

Part 8 of the Act provides two pathways to obtaining a dam works permit. The first pathway provides for a Division 3 permit, obtained through an application and assessment process[1]. The second pathway provides for a Division 4 permit, which is obtained without the need to make an application. A person is entitled to a Division 4 Permit if their dam works meet the criteria specified under section 159 of the Act. This Code does not relate to Division 4 permits.

1.2 Clearance of Vegetation

The Minister's consideration of a Division 3 permit application must take into account, amongst other things, the potential impact of dam works on the conservation and protection of natural values. In this regard, assessing the potential impact of works to clear vegetation at a dam works site is a key matter the Minister must consider. In approving a Division 3 permit application, the Minister may determine that the permit is subject to conditions relating to the clearance of vegetation.

Currently the harvesting of timber, clearing of trees and clearing and conversion of threatened native vegetation communities in Tasmania, other than in circumstances that are prescribed under the *Forest Practices Regulations 2007*[2], must be carried out under a Forest Practices Plan and in accordance with the *Forest Practices Code 2015*. The harvesting of timber, clearing of trees and the clearing and conversion of a threatened native vegetation community on any land, for the purposes of dam works authorised under a Division 3 permit, are prescribed under the regulations. Accordingly, a Forest Practices Plan is not required in relation to clearing vegetation under a Division 3 permit.

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1.3 *Dam Works Code to Clear Vegetation 2015*

To ensure the harvesting of timber, clearing of trees and the clearing and conversion of a threatened native vegetation community, as part of dam works authorised under a Division 3 permit, are undertaken in a way that minimises environmental impacts, the *Dam Works Code to Clear Vegetation 2015* provides standards for the protection of environmental values during clearing operations.

This Code is based on the *Forest Practices Code 2015*, adopting relevant elements of that Code such that, in general, the same principles will apply to the clearance of vegetation undertaken as part of dam works and the clearing of vegetation as part of forestry operations.

[1] A Division 3 permit is defined in section 138 as a permit issued under section 158.
[2] In accordance with section 17 of the *Forest Practices Act 1985*.

1.4 Legal Obligations

A person undertaking dam works authorised by a Division 3 permit is entitled to some permit/approval exemptions under other Acts. For example, a permit or special permit is not required under section 60A of the *Land Use Planning and Approvals Act 1993*.

However, holding a dam works permit does not absolve a permit holder from other legal obligations under the *Water Management Act 1999* or other Acts. For example, a person holding a dam works permit may need to:

- apply for an authority to take water into the dam, under the *Water Management Act 1999*;
- determine whether, under the Commonwealth *Environment Protection and Biodiversity Conservation Act 1999*, an action will require approval from the Commonwealth Minister for the Environment if it has, will have, or is likely to have a significant impact on a matter of national environmental significance;
- apply for a permit under the *Aboriginal Relics Act 1975*, if the dam works are going to interfere with an Aboriginal relic;
- obtain a certified Forest Practices Plan under the *Forest Practices Act 1985* to harvest more than six tree ferns (*Dicksonia antarctica*);
- undertake action, under the *Weed Management Act 1999*, against declared weed species.

Off-site activities associated with dam works may also require authorisation under other legislation. This may include providing access to the site (e.g. development or upgrading of roads) or operating an off-site quarry (borrow pit). Prior to dam works commencing, permit holders will need to ensure that all the appropriate authorisations for off-site activities have been obtained from the relevant agency or local council.

The limited examples of potential legal obligations set out above should not be taken to be an exhaustive list and provides guidance only. The onus is on dam works permit holders to make themselves aware of all their obligations under the *Water Management Act 1999* or any other Act, prior to commencing dam works.

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PART 2 *DAM WORKS CODE TO CLEAR VEGETATION 2015* - OVERVIEW

2.1 Purpose of this Code

The purpose of the *Dam Works Code to Clear Vegetation 2015* is to provide a set of standards, for the protection of environmental values, which apply to the clearance of vegetation undertaken as part of dam works authorised under a Division 3 permit.

2.2 Authority of this Code

Pursuant to section 301 of the *Water Management Act 1999*, a code of practice may be issued in respect of dam works and related matters. This Code has been issued under section 301(1)(b) for the purposes of dam works authorised under a Division 3 permit.

This Code is administered by the Department for Primary Industries, Parks, Water and Environment on behalf of the Minister for Primary Industries and Water.

2.3 Application of this Code

This Code applies to all dam works, including constructing a new dam and repairing, modifying or removing an existing dam, that are authorised under a Division 3 permit, where the works involve any of the following:

(i) the harvesting of timber on land;
(ii) the clearing of trees on land;
(iii) the clearing and conversion of a threatened native vegetation community[3] on land;

where the total area of land on which the harvesting or clearing occurs is 10 ha or greater.

2.4 Format

Part 3 of this Code, *Works to Clear Vegetation*, prescribes the manner in which vegetation clearance is to be conducted as part of dam works authorised under a Division 3 permit.

Requirements, over and above those set out in this Code, may be applied to a particular dam works permit. In granting a Division 3 permit, the Minister may consider that specific permit conditions, prescribing requirements different to those contained in this Code, are necessary. In all cases, a dam works permit condition prevails over this Code where there is any inconsistency.

Where a specific action or activity is not addressed by the Code, the permit holder should refer to the conditions specified on the relevant permit, as well as being aware of the statutory requirements of the Act and subordinate legislation such as the *Water Management Regulations* 2009 or *Water Management (Safety of Dams) Regulations 2015*. Legislation is available at: http://www.thelaw.tas.gov.au.

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[3] See definitions.

2.5 Definitions

"**Dam works footprint**" means the total area of land on which dam works are to be undertaken under a Division 3 permit including the dam wall, spillway, the land to be inundated and any land on which clearance of vegetation is to be undertaken under a permit.

"**Dam Works Practices Plan**" means a plan containing specifications of the practices to be carried out on the land referred to in the plan in connection with the clearance of vegetation as part of dam works authorised under a Division 3 permit.

"**Threatened native vegetation community**" means a community of native vegetation specified in Schedule 3A of the *Nature Conservation Act 2002*.

"Clearance of vegetation" means the harvesting of timber, the clearing of trees and the clearing and conversion of threatened native vegetation communities.

2.6 Compliance Requirements

This Code provides protocols for ensuring that clearance of vegetation as part of dam works is undertaken with minimal environmental impact. For dam works authorised under a Division 3 permit, where clearance of vegetation corresponds to a circumstance set out in Part 2.3 of this Code, compliance with the provisions of this Code will be required. In these instances, a Dam Works Practices Plan will need to be prepared, based on this Code, as part of the permit application process, and approved. The Dam Works Practices Plan will set out operational planning requirements and specifications of practices relating to the clearance of vegetation to be undertaken as part of the permitted dam works. As a condition of a dam works permit, vegetation clearance practices, where relevant, will be undertaken according to an approved Dam Works Practices Plan.

Under the Act, non-compliance with permit conditions is a breach of the permit and the holder is liable to enforcement action.

Dam works permit holders should ensure that staff, contractors and their employees are familiar with, and observe, those aspects of this Code and related Dam Works Practices Plans applicable to dam works undertaken.

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PART 3 WORKS TO CLEAR VEGETATION

Part 3 of this Code outlines, through the development of Dam Works Practices Plans, operational planning requirements and specifications of practices to be undertaken to clear vegetation as part of dam works authorised under a Division 3 permit.

3.1 Dam Works Practices Plan

As noted in Part 2.6 of this Code, for dam works authorised under a Division 3 permit, where clearance of vegetation corresponds to a circumstance set out in Part 2.3, compliance with the provisions of this Code will be required. In these instances, a Dam Works Practices Plan will need to be prepared, based on this Code.

A Dam Works Practices Plan must be submitted as part of an application for a Division 3 permit, where required. Plans will be assessed as part of the application process and approved where they comply with the requirements of this Code. For relevant Division 3 permits, a condition will specify that dam works must be undertaken in accordance with the approved Dam Works Practices Plan.

A Dam Works Practices Plan is prepared by addressing each element of this Code as it pertains to the specific dam works to be undertaken.

3.2 Elements of the *Dam Works Code to Clear Vegetation 2015*

As described in Part 1.3 of this Code, the *Forest Practices Code 2015* provides the basis for the *Dam Works Code to Clear Vegetation 2015*. Table 1 sets out the specific elements of the *Forest Practices Code 2015* that are adopted in this Code. In preparing a Dam Works Practices Plan, applicants for a Division 3 permit must address all of the elements set out in the Table 1, as they are relevant to the specific circumstances associated with their application.

3.3 Interpretation of the *Forest Practices Code 2015*

Where the *Forest Practices Code 2015* refers to a "Forest Practices Plan" this is to be interpreted as meaning a "Dam Works Practices Plan".

Where the *Forest Practices Code 2015* refers to a Forest Practices Plan as having been "certified" this is to be interpreted as meaning a Dam Works Practices Plan that has been approved as part of the Division 3 permit application.

Where the *Forest Practices Code 2015* refers to a "Forest Practices Officer" this is to be interpreted as meaning the Minister for Primary Industries and Water.

Where the *Forest Practices Code 2015* refers to the "Chief Forest Practices Officer" this is to be interpreted as meaning the Minister for Primary Industries and Water.

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Table 1. Adoption of the *Forest Practices Code 2015* by the *Dam Works Code to Clear Vegetation 2015*.

FOREST PRACTICES CODE 2015	*DAM WORKS CODE TO CLEAR VEGETATION 2015*	**OTHER REQUIREMENTS**
PART B. BUILDING ACCESS TO THE FOREST		
B1 Planning and Locating Roads	Adopted[#]	
B2 Road Design	Adopted[#]	
B3 Road Construction	Adopted[#]	
B4 Upgrading Existing Roads and Access Tracks	Adopted[#]	
B5 Quarries and Borrow Pits	Adopted[#]	
B6 Bridge, Causeway and Ford Construction	Adopted[#]	
B7 Road Maintenance	Adopted[#]	
B8 Water Supply and Other Significant Catchments	Adopted[#]	
[#]These provisions, of Part B of the *Forest Practices Code 2015*, are adopted only where relevant to the construction of roads and related activities within the area of the dam works footprint. The construction of roads and related activities, to enable access to the dam works area, is not covered by a dam works permit and may require separate approval by the Forest Practices Authority or local Council.		
PART C. HARVESTING OF TIMBER		
C1 Design, Planning and Equipment Considerations	Adopted	
C2 Wet Weather Limitations	Adopted	
C3 Snig Tracks and Landings	Adopted	
C4 Water Quality and Watercourse Protection	The general principles are adopted.	Streamside vegetation at a dam site is to be cleared last.
C6 Steep Country Harvesting	Adopted	
PART D. CONSERVATION OF NATURAL AND CULTURAL VALUES[4]		
D1 Soils	Adopted where applicable to building access to the dam site and associated dam works.	
D2 Water Quality and Flow	The general principles are adopted.	Streamside vegetation at a dam site is to be cleared last.
D6 Geomorphology	The general principles and the basic approaches in relation to karst are adopted.	
PART E. ESTABLISHING AND MAINTAINING FORESTS		
E2 Use of Chemicals	Adopted	
E3 Fire Management	Only Section E3.3 adopted.	
E4 Pest, Disease, and Weed Control	Adopted	

[4] Impacts on natural values are addressed through conditions on a dam works permit. Conditions may prescribe specific actions or actions in accordance with a relevant management plan.

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FOREST PRACTICES CODE 2015	*DAM WORKS CODE TO CLEAR VEGETATION 2015*	**OTHER REQUIREMENTS**
PART F. MANAGEMENT OF FUELS, OILS, RUBBISH AND EMISSIONS		
F1 Use of Fuel, Grease and Oils	Adopted	
F2 Disposal of Rubbish	Adopted	
F3 Smoke, Noise and Dust	Adopted	
OTHER		
G. Glossary	Adopted	
H. References	Adopted	
I. Selected Bibliography	Adopted	
APPENDICES		
Appendix 1 – Protocol for forestry field marking colours Appendix 2 – Town water supply and freshwater aquaculture facility intakes Appendix 3 – A guide for operations on very high erodibility class soils Appendix 4 - A guide for operations on soils with high or very high erodibility by wind Appendix 5 – A field test for assessing soil water status Appendix 6 – An outline of soil erodibility classes in relation to soil properties Appendix 7 – Slope angles in degrees and percent	All appendices, where applicable to other adopted Parts of the *Forest Practices Code 2015*, are adopted.	

The *Forest Practices Code 2015* is available on the FPA's website at: http://www.fpa.tas.gov.au/__data/assets/pdf_file/0012/110280/Forest_Practices_Code_2015_with_interpretation_of_section_C4.2.pdf

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Document 67

From: [redacted]
To: [redacted]
Subject: Re: Query re DSG Land Acquisition Plan [SEC=OFFICIAL]
Date: Monday, 10 October 2022 11:22:52 AM

Hi [redacted]
Sent the full survey plans including balance plans last week. s 39 [redacted]!

Sent from my iPhone

On 10 Oct 2022, at 11:09, [redacted]@stategrowth.tas.gov.au> wrote:

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Out of scope

[redacted]

Document 68

From:
To: s 36 ;
Subject: Tasman Highway EPBC
Date: Tuesday, 4 October 2022 5:29:35 PM
Attachments: image001.png

Good afternoon

I spoke with s 36 at DCCEEW this afternoon. They are working through the Offset Calculation and supporting information and will respond in due course. s 36 was clear that the Orchid Management Plan needs only to respond to the Project Impacts and also that the Offset Management Plan needs to address all items covered under the Offset Policy (effectively our conclusions on requirements). s 36 didn't commit to a date, however I think we should get a response fairly soon. Concerning the meeting on site with s 36 last April, I can't find any notes from anyone on our team and there has been no response from the EPBC assessment team. s 36 recollection of key matters they wanted resolved (aside from agreement on Orchid Management Plan and Offset) were

i. The new access – now resolved
ii. Drainage on Pittwater Road

With respect to highway drainage, our reports address this and indicate that runoff from the highway is reduced to pre-existing levels (volume and pollutants) within a relatively short distance of the new highway. There are no further options available for treatment or attenuation.

The collection of water in the wide gravelled shoulders on Pittwater Road and then subsequent runoff of polluted water into Milford remains a concern. We are working with Council to resolve this, however s 36 indicated that this could be addressed as a facilitated impact and could be dealt with by adjustment to the offset (area and or actions). I think it would be preferrable to remove the shoulders and hence the source of pollution and the Department should strongly consider intervening if Council won't come to the party. We would still need approval from Council for our Contractor to carry out this work, however I am sure they would agree.

Regards

[redacted]

s 36

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36

pittsh.com.au

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Out of scope

[redacted]

From: [redacted]@stategrowth.tas.gov.au]
Sent: Wednesday, 13 April 2022 1:36 PM
To: s [redacted]
Subject: Re: Tasman Highway - Golf Course matter

s 36 I met with [redacted] last week and he has promised to prioritise this work.
[redacted]

Get Outlook for Android

From: s [redacted]
Sent: Wednesday, April 13, 2022 9:25:35 AM
To: [redacted]@stategrowth.tas.gov.au>
Subject: RE: Tasman Highway - Golf Course matter

Dear [redacted]

Still nothing!

While I appreciate it is not your fault, the Tasmania Golf Club (the Club) has not heard anything s 31 [redacted]

(see attached letter to the Office of the Valuer General on 1 February 2022).

Section 44 of the *Land Acquisition Act 1993 (the Act)* prescribes the following for the determination of disputed claims:

> ***44. Effect of failure to determine or proceed to determine disputed claim***
>
> *Where, within the period of 90 days or, in the case of a major infrastructure project, the period of 6 months after a claim for compensation against an acquiring authority becomes a disputed claim for compensation–*
>
> *(a) the disputed claim has not been determined by agreement between the authority and the claimant; or*
>
> *(b) the disputed claim has not been referred to arbitration; or*
>
> *(c) no process in an action for compensation by the claimant against the authority to determine the disputed claim has been served on it–*
>
> *the authority must, within 30 days after the expiration of that period, apply to the Court for the determination of the disputed claim for compensation.*

Despite assurances provided in our conversations back in early October 2021, that the matter

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would be negotiated and a belief by the Club that agreement would be reached, the absence of advice from the Office of the Crown Solicitor is very much to the contrary. It is of concern to the Club that the inaction (now 71 out of the 90 days allowed for determination by agreement under *the Act*) may be a deliberate strategy to avoid negotiation and see the matter dealt with through the Court process and further delay the project.
The Club (Board Members, Staff and Members) since 2019 has worked closely, and in good faith with staff of your Department in an effort to facilitate reasonable project outcomes. However, the delays and inaction by Government are causing its patience to wear very thin!
Your urgent advice on this matter would be very much appreciated.
Cheers
s 36

From: s 36]
Sent: Friday, 1 April 2022 6:03 PM
To:
Subject: Re: Tasman Highway - Golf Course matter

Thanks Anything you can do to hurry things up would be very much appreciated!
Cheers
s 36

Sent from my iPhone

> On 1 Apr 2022, at 5:32 pm,
> @stategrowth.tas.gov.au> wrote:
>
> s 36 I am awaiting response from council law.
> Get Outlook for Android
>
> ---
>
> **From:** s 36
> **Sent:** Friday, April 1, 2022 5:25:15 PM
> **To:** @stategrowth.tas.gov.au>
> **Subject:** RE: Tasman Highway - Golf Course matter
>
> Dear ,
> As I understand things, the period prescribed for negotiation of compensation arrangements under the Land Acquisition Act is 3 months and 2 of these have already elapsed.
> Since entering this period, we have not received any communication from the State Government.
> I eagerly await your advice.
> Cheers
> Js
>
> ---
>
> **From:** @stategrowth.tas.gov.au]
> **Sent:** Monday, 21 March 2022 4:52 PM
> **To:** s 36
> **Subject:** RE: Tasman Highway - Golf Course matter
>
> I will follow up and come back to you s 36
>
> ---
>
> **From:** s 36 >
> **Sent:** Monday, 21 March 2022 3:37 PM
> **To:** @stategrowth.tas.gov.au>
> **Subject:** FW: Tasman Highway - Golf Course matter

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Dear [redacted]

I am becoming increasingly concerned over the considerable delay in commencing negotiations regarding compensation for the Tasmania Golf Club.

I understand the timeframe for a negotiated outcome prescribed under the Land Acquisition Act is limited. I further understand that despite efforts by Simmons Wolfhagen to expedite matters, it would appear (at least from my position and advice received) nothing is happening.

Would you please provide me with a status update?

Regards

s 36

From: s 36 [redacted]

Sent: Monday, 4 October 2021 9:00 AM

To: [redacted]'

Subject: RE: Tasman Highway - Golf Course matter

Hi [redacted]

Sorry, did not see a message? What time is best for me to call you?

Cheers

s 36

From: [redacted] @stategrowth.tas.gov.au]

Sent: Monday, 4 October 2021 8:53 AM

To: s 36 [redacted]

Subject: Tasman Highway - Golf Course matter

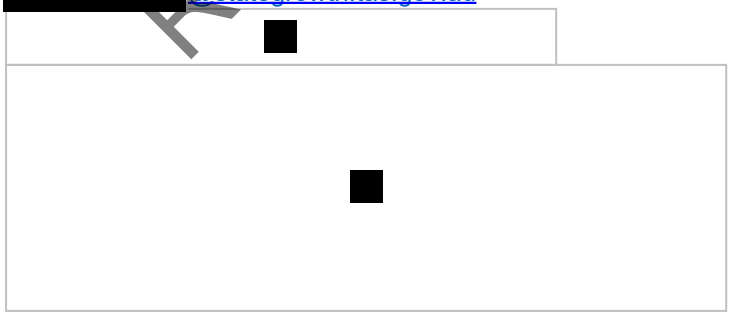
Good morning s 36 I left a phone message for you last week and have tried calling again this morning.

I would be very keen to talk to you about the above and the pathway forward.

My contact numbers are below.

Kind Regards

[redacted]
STATE ROADS | Department of State Growth
4 Salamanca Place TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] or s 36 [redacted]
[redacted] @stategrowth.tas.gov.au



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Document 70

From:
To: [redacted]
Subject: Milford Questions - WITH TASWATER EASEMENT
Date: Tuesday, 20 September 2022 9:03:28 PM
Attachments: image001.png
image002.png
Precedent Easement - Schedule of Easements.pdf

Hi [redacted]
Taswater standard easement meant to be attached to yesterdays email.
Regards
s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone +61 3 6210 1466

pittsh.com.au

From: s 36 [redacted]
Sent: Tuesday, 20 September 2022 8:12 AM
To: [redacted]@stategrowth.tas.gov.au>
Subject: RE: Milford Questions
Hi [redacted]
Refer below in red.
Regards
s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: [redacted]@stategrowth.tas.gov.au>
Sent: Monday, 19 September 2022 3:13 PM
To: s 36 [redacted]@pittsh.com.au>
Subject: RE: Milford Questions

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36 [redacted]
Important items I missed:

- Has North Baker/you discussed the offset calculator with EPBC/DAWE yet? It was just completed on Friday and I will send it to you and Keira in a separate email and send to EPBC people later today.
- How far off are we from been ready to sit down with s 36 [redacted] and go through the OMP? I think we are ready now, noting that we can discuss the offset as well and we think the OMP is substantially complete and "compliant". s 36 [redacted] should attend that discussion. s 36 [redacted] is on leave from 26/9 to 17/10. When is your next meeting with s 36 [redacted] after 17 Oct?

Thanks,

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[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

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In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From: [redacted]
Sent: Monday, 19 September 2022 12:33 PM
To: s 36 [redacted]@pittsh.com.au>
Subject: Milford Questions

Hi s 36 [redacted]
Could you please assist with further Milford questions below:

- As per below email, will the Pines WM be inside the Milford property or in the road reserve?
    - If in the RR, can this easily be read while standing inside the Milford property? Inside Milford property
    - If on Milford, what excavation/disturbance is required and has this been considered as part of the EPBC referral? Minimal – assuming about 450 mm to 600 mm deep. Meter would go adjacent to the fence. It would be in the area shown in the EPBC referral as works footprint, in this case the realigned access track near Pittwater Road. Its shown as WM116 on Drawing 1208. Most of the work will be on our side of the fence.
- How is the new driveway design progressing? As I advised in last weeks email, we haven't started yet. We have requested an update from s 36 [redacted], the landscape architect, on what additional work is required for her concept drawings to be issued for construction and any additional fees. Then we will send a change order to you and when its approved we will be able to start.
    - When do you expect concept drawings to be available to discuss with s36 s 39 [redacted] but I am reluctant to start without confirmation from her on scope and cost.
    - Have you discussed the power line issue with TN/do we need to discuss with TN? I have discussed this with TN. It's a private line, so can be relocated by our Contractor. TN don't have any particular jurisdiction over the line but do recommend 5.5 m overhead clearance
- TW authorised access although their easement on the Milford property (ie. access into Milford). What are TW requirements here? I assume they need to advise s36 [redacted] when they will be accessing the property unless in an emergency? TW already have an easement over the pipeline on Milford. I expect the conditions will be Taswater standard. Refer attached. There may be specific operational issues related to Milford which s 36 [redacted] should know all about.
- TW fire hydrant. This will be drawn on the plans and it will be up to TW to accept. Does this mean the plans will need to go back through council, if not, when would TW re-review and approve the drawings? TW have had a preliminary look at the drawings (without the hydrant) and endorsed them They will not give final design approval until we obtain the land owner approvals for the works on their properties. We have now obtained both

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Barilla and Golf club, but need approval from s 36 before they will review the drawings again and hopefully approve them with the hydrant. It would be very helpful if you could get a quick email from s 36 advising that she approves the proposed works on her property as shown on Drawings 1208 to 1212 (or similar wording). s 39 [redacted]. I advised last week all the drawing have to go to Council prior to construction. If we have Taswater approval Council will have no comment on the water side of it. I expect Council will not be too interested in the overall drawing set. The need to have drawings approved by Council is a standard clause in the Planning Permit and it's a state highway , not a Council road and they have already issued the Planning Permit.

- Offset. Have North Baker confirmed if EPBC considered the 50m roadside conservation (RSC) as mitigation or if this can be the offset? We haven't asked EPBC this yet, however Pitt & Sherry and North Barker's interpretation of the Offset Guidelines is that the offset can be in this area. The 50 m area was an arbitrary but fairly generous mitigation measure that is, if you like, an unofficial offset. The official offset requires a covenant and as our assessment has determined only 1.5 Ha needs to be covenanted
- RSC plan I'll follow up internally regarding requirements (if a separate plan is needed)

Separately, consolidation of multiple Airport to causeway consultancies into one. What do you want here? There have been multiple change orders due to the ongoing protracted nature of this commission. The Department chose to issue some of the change orders as separate consultancies. We have them all as sub projects under the original consultancy. We can go through this tomorrow afternoon if you like. It might be worth an on line meeting to clarify the above.

Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

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Please note I do not work Fridays.

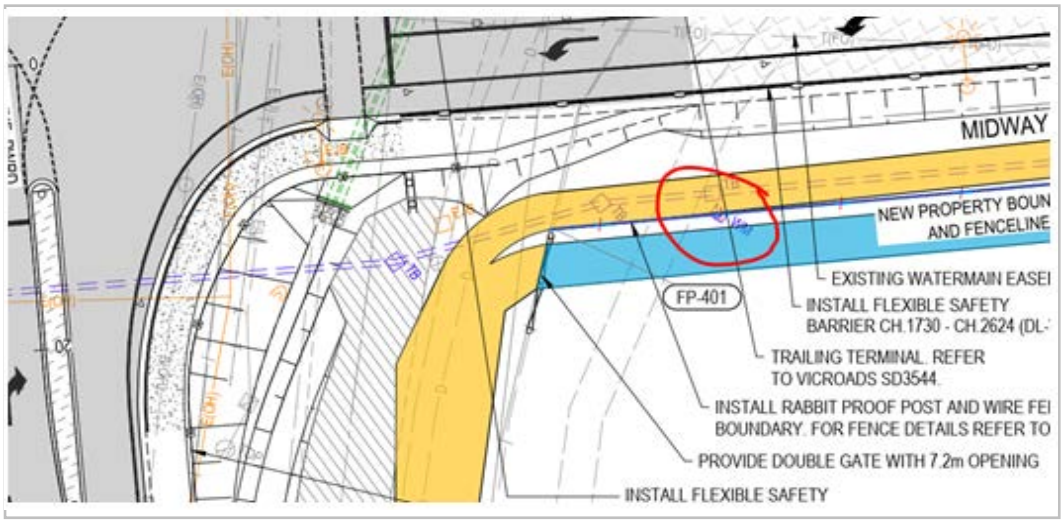
From: [redacted]
Sent: Thursday, 8 September 2022 11:02 AM
To: s 36 [redacted]@pittsh.com.au>
Subject: RE: Hydrant on Watermain near Milford

Hi s 36 [redacted].

Thanks for the update. Good news on the hydrant, I assume this won't impact the assessment. As the DA is approved, when would TW review these drawings to approve/not approve? Are we required to submit revised drawings as so elements may have slightly changed?

I've already confirmed with s36 [redacted] that we cannot move the pines meter although she wanted a meeting on site to review where it was going to go.

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I've told her this is the WM although it is unclear if it is within her boundary or the road reserve – it has been accepted that this may move laterally as the exact location is unknown. I feel if we can understand if it is on private property or the RR we may need to avoid a onsite meeting or I might be able to run her through it next time I'm there.

Happy to discuss further.

Thanks,

[redacted]

Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] s 36 [redacted]
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Please note I do not work Fridays.

From: s 36 [redacted] @pittsh.com.au>
Sent: Tuesday, 6 September 2022 10:02 PM
To: [redacted] @stategrowth.tas.gov.au>
Subject: Hydrant on Watermain near Milford

Hi [redacted]

I have discussed the hydrant with s 36 [redacted] our water designer. We will include a hydrant valve near WM 118 on Drawing 1208, approx. 100 metres east of Pittwater Road. It will be on the road reserve, but up against the fence. It will then be up to Taswater to approve this, or otherwise. s 36 [redacted] also checked the status of the supply line from the main to the Pines. It is not listed on the Taswater asset register as one of their lines. This means that for all intents and purposes it is a private line and, on this basis, Taswater would not approve a meter at the Pines.

Regards

[redacted]

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street

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PO Box 94 Hobart Tasmania 7001 | Phone s 36

pittsh.com.au

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Attachment 1

TASWATER – PIPELINE AND SERVICES EASEMENT PRECEDENT (FOR USE WITH SCHEDULE OF EASEMENTS)

Lot **[Note: insert lot number as noted on the plan]** ("the Lot") is subject to a PIPELINE AND SERVICES EASEMENT in gross in favour of TasWater over the land marked **[Note: insert reference to easement here as described in the plan]** WIDE **[Note insert width as described in the plan]** shown on the Plan ("the Easement Land").

"Pipeline and Services Easement" is defined as follows:-

FIRSTLY, THE FULL AND FREE RIGHT AND LIBERTY for TasWater and its employees, contractors, agents and all other persons duly authorised by it, at all times to:

(1) enter and remain upon the Easement Land with or without machinery, vehicles, plant and equipment;

(2) investigate, take soil, rock and other samples, survey, open and break up and excavate the Easement Land for any purpose or activity that TasWater is authorised to do or undertake;

(3) install, retain, operate, modify, relocate, maintain, inspect, cleanse, repair, remove and replace the Infrastructure;

(4) run and pass sewage, water and electricity through and along the Infrastructure;

(5) do all works reasonably required in connection with such activities or as may be authorised or required by any law:

(a) without doing unnecessary damage to the Easement Land; and

(b) leaving the Easement Land in a clean and tidy condition;

(6) if the Easement Land is not directly accessible from a highway, then for the purpose of undertaking any of the preceding activities TasWater may with or without employees, contractors, agents and any other persons authorised by it, and with or without machinery, vehicles, plant and equipment enter the Lot from the highway at any vehicle entry and cross the Lot to the Easement Land; and

(7) use the Easement Land as a right of carriageway for the purpose of undertaking any of the preceding purposes on other land, TasWater reinstating any damage that it causes in doing so to any boundary fence of the Lot.

SECONDLY, the benefit of a covenant in gross for TasWater with the registered proprietor/s of the Easement Land and their successors and assigns not to erect any building, or place any structures, objects, vegetation, or remove any thing that supports, protects or covers any Infrastructure on or in the Easement Land, without the prior written consent of TasWater to the intent that the burden of the covenant may run with and bind the servient land and every part thereof and that the benefit thereof may be annexed to the easement herein described.

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Interpretation:

"Infrastructure" means infrastructure owned or for which TasWater is responsible and includes but is not limited to:

(a) sewer pipes and water pipes and associated valves;

(b) telemetry and monitoring devices;

(c) inspection and access pits;

(d) electricity assets and other conducting media (excluding telemetry and monitoring devices);

(e) markers or signs indicating the location of the Easement Land or any other Infrastructure or any warnings or restrictions with respect to the Easement Land or any other Infrastructure;

(f) anything reasonably required to support, protect or cover any other Infrastructure;

(g) any other infrastructure whether of a similar nature or not to the preceding which is reasonably required for the piping of sewage or water, or the running of electricity, through the Easement Land or monitoring or managing that activity; and

(h) where the context permits, any part of the Infrastructure.

"TasWater" means Tasmanian Water & Sewerage Corporation Pty Ltd (ACN 162 220 653), its successors and assigns.

Released under RTI

Document 71

out of scope
out of scope

Subject: FW: Milford Offset assessment
Date: Tuesday, 16 May 2023 9:56:46 AM
Attachments: image001.png
SETS_OrchidOffsetsCalculator_2022-8805_20220916.xlsx
TasmanHwy_SETS_OrchidImpactOffsetReview_2020-8805_NBES_20220916.docx

---

From: s 36 @pittsh.com.au>
Sent: Tuesday, 20 September 2022 8:14 AM
To: @stategrowth.tas.gov.au>;
@stategrowth.tas.gov.au>
Subject: Milford Offset assessment

Hi

Attached please find latest Offset calculation and justification for inputs for your review.

Regards

s 36

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36

pittsh.com.au

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Out of scope

Offsets Assessment Guide

For use in determining offsets under the *Environment Protection and Biodiversity Conservation Act 1999*
2 October 2012

This guide relies on Macros being enabled in your browser.

Attachment 1

Matter of National Environmental Significance	
Name	
EPBC Act status	Critically Endangered
Annual probability of extinction Based on IUCN category definitions	**6.8%**

Key to Cell Colours
User input required
Drop-down list
Calculated output
Not applicable to attribute

Impact calculator

Protected matter attributes	Attribute relevant to case?	Description	Quantum of impact		Units	Information source
Ecological communities						
Area of community Clear row	No		Area			
			Quality			
			Total quantum of impact	0.00		
Threatened species habitat						
Area of habitat Clear row	Yes	This is conservative and assumes all directly and indirectly impacted habitat is entirely lost And does not take into account areas for each species overlaps	Area	0.25	Hectares	Based on both direct/indirect impacts from orchid impact assessment and management plan (North Barker 2022)
			Quality	7	Scale 0-10	
			Total quantum of impact	0.18	Adjusted hectares	
Protected matter attributes	**Attribute relevant to case?**	**Description**	**Quantum of impact**		**Units**	**Information source**
Number of features e.g. Nest hollows, habitat trees Clear row	No					
Condition of habitat Change in habitat condition, but no change in extent Clear row	Yes				% Benchmark	
Threatened species						
Birth rate e.g. Change in nest success Clear row	No					
Mortality rate e.g Change in number of road kills per year Clear row	No					
Number of individuals e.g. Individual plants/animals Clear row	No					

Offset calculator

Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon (years)		Start area and quality		Future area and quality without offset		Future area and quality with offset		Raw gain	Confidence in result (%)	Adjusted gain	Net present value (adjusted hectares)	% of impact offset	Minimum (90%) direct offset requirement met?	Cost ($ total)	Information source
Ecological Communities																				
Area of community	No				Risk-related time horizon (max. 20 years)		Start area (hectares)		Risk of loss (%) without offset		Risk of loss (%) with offset									
									Future area without offset (adjusted hectares)	0.0	Future area with offset (adjusted hectares)	0.0								
					Time until ecological benefit		Start quality (scale of 0-10)		Future quality without offset (scale of 0-10)		Future quality with offset (scale of 0-10)									
Threatened species habitat																				
Area of habitat	Yes	0.18	Adjusted hectares	Improvement to existing habitat?	Time over which loss is averted (max. 20 years)	20	Start area (hectares)	1.5	Risk of loss (%) without offset	1%	Risk of loss (%) with offset	0%	0.01	75%	0.01	0.00	0.20	112.99%	Yes	Assumed decline in future quality without active intervention - existing weed issues in habitat may warrant this
									Future area without offset (adjusted hectares)	1.5	Future area with offset (adjusted hectares)	1.5								
					Time until ecological benefit	2	Start quality (scale of 0-10)	8	Future quality without offset (scale of 0-10)	7	Future quality with offset (scale of 0-10)	9	2.00	75%	1.50	1.32				
Protected matter attributes	**Attribute relevant to case?**	**Total quantum of impact**	**Units**	**Proposed offset**	**Time horizon (years)**		**Start value**		**Future value without offset**		**Future value with offset**		**Raw gain**	**Confidence in result (%)**	**Adjusted gain**	**Net present value**	**% of impact offset**	**Minimum (90%) direct offset requirement met?**	**Cost ($ total)**	**Information source**
Number of features e.g. Nest hollows, habitat trees	No																			
Condition of habitat Change in habitat condition, but no change in extent	Yes		% Benchmark										0		0.00	0.00	#DIV/0!	#DIV/0!		
Threatened species																				
Birth rate e.g. Change in nest success	No																			
Mortality rate e.g Change in number of road kills per year	No																			
Number of individuals e.g. Individual plants/animals	No																			

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Summary

Protected matter attributes	Quantum of impact	Net present value of offset	% of impact offset	Direct offset adequate?	Cost ($)		
					Direct offset ($)	Other compensatory measures ($)	Total ($)
Birth rate	0				$0.00		$0.00
Mortality rate	0				$0.00		$0.00
Number of individuals	0				$0.00		$0.00
Number of features	0				$0.00		$0.00
Condition of habitat	0	0.00	#DIV/0!	**#DIV/0!**	$0.00	#DIV/0!	#DIV/0!
Area of habitat	0.175	0.20	112.99%	**Yes**	$0.00	N/A	$0.00
Area of community	0				$0.00		$0.00
					$0.00	**#DIV/0!**	**#DIV/0!**

Tasman Highway Upgrade

Hobart Airport to Sorell

EPBC 2020/8805

Offset Appraisal

The assessment by DAWE, now DCCEEW, subsequently referred to as the Department, has determined [1] there to be residual significant impacts to two critically endangered orchids (MNES) as summarized in Table 1. The area of known range has been taken from mapped area of critical habitat for each species from the *Orchid Impact Assessment and Mitigation Plan* (North Barker 02-02-2022).

Table 1: Impact to known range of orchids

Species	Direct Impact	Indirect Impact
Milford leek-orchid (*Prasophyllum milfordense)*	0.08 ha (0.40%)	0.04 ha (0.31%)
Sagg Spider-orchid (*Caladenia saggicola*)	0.08 ha (0.37 %)	0.05 ha (0.24%)

The Department has also determined that the without avoidance of impacts, the residual significant impacts will require to be offset.

Offset calculator

The Offset calculator has been used to determine the area of offset and management actions required to form the offset for these impacts.

The areas of impact and offset used in the calculations incorporates habitat for both species and so can be assessed concurrently. Both species are categorized as critically endangered which means the annual probability of extinction used by the calculator for both species is the same.

In the calculator we have taken a conservative approach and accumulated the areas of direct impact to 0.16 ha (0.8+0.8).

It is unclear how the direct and indirect offsets can be calculated on a single calculator. The offset calculator also doesn't appear to be able to take into account different offset area to impact area when considering indirect impacts that will not result in total loss but instead affect habitat quality.

A conservative approach has therefore been taken for indirect impacts by assuming total loss of habitat and quantifying the impact area as an accumulation of the two species. – 0.9 ha (0.4 +0.5).

For the purposes of the calculator total Impact Area = 0.25 ha

[1] (email from s36 [redacted] (16/3/2022)

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Habitat Quality

The Calculator relies on a Quality measure for the habitat to be scored between 1-10.

The Guidelines indicate quality to be made up of three components: site condition, site context and species stocking rates.

Site context: The area of direct impact is the northern edge of the habitat. It does not provide connectivity to other suitable habitats but does important by providing a buffer from the habitats known to support orchids. The area indirectly impacts is deeper in and so has higher quality

Site condition: The area is the most degraded due to edge effects from its location close to a highway and water main and service track. It supports more weeds than the core habitat where stocking rates are high. However, it generally retains characteristics which make it better quality than those areas identified in the *Orchid Impact Assessment and Mitigation Plan* as secondary habitat where the floristic associations and soil characters differ.

Stocking rates: No plants are present and so stocking rates are low within the Impact areas.

Based on the above considerations, a Quality score of 7 is given for the area impacted.

Time over which loss is averted

The management of the offset area will be incorporated into the State Growth roadside conservation sites program which already includes management of several land parcels that are not strictly roadsides. {DSG are going through a process of separating these into two separate programs]. The intention is for ongoing management subject to ongoing agreement with the landowner. 20 years is the maximum number allowed in the calculator.

Time until ecological benefit

The main management activity that affects habitat quality will be the removal and control of weed infestations. This has been put at two years when all primary weed management within the management area will be complete.

Start Area (ha)

This is taken conservatively to only include the main section of habitat extending for 300m east from Pittwater Road thus habitat for both listed orchids. There is second area that provides only habitat for *Caladenia saggicola* that is not included in the offset calculator. This area is 1.5h (300m x 50m)

Start Quality

Offset Area is given a Habitat Quality score of 8 overall. It includes the worst condition areas closer to the highway (score 7) but extends 50m into the habitat where condition improves (score 9) so has been adjusted up.

Future Quality Score without offset

The habitat, even 50m from the boundary edge, is being impacted by colonisation of weeds. The land owner has been successful at controlling woody weeds but is unlikely to have the resources to control the further spread of herbaceous weeds such as freesia and panic veldt grass which are more challenging but pernicious species that could degrade habitat suitability for orchids across the entire habitat area. The Habitat Quality in the offset management area is likely to worsen and so has been given a score of 7

Future Quality Score with offset

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It is anticipated that the weed management will ensure the exiting weed threat is reduced thus increasing the condition score above it current rating The offset area with management will improve from 8-9.

Risk of loss.

To quote the Offset Guide "This describes the chance that the habitat on the proposed offset site will be completely lost (i.e. no longer hold any value for the protected matter of concern) over the foreseeable future.". This has been given a 1 % chance without offset as it is a very remote chance that the protected matters will be lost from the site. With weed management for the offset area this risk becomes extremely remote ie 1 in a 1000 chance (0.1%).

Confidence in result

"This describes the level of certainty about the success of the proposed offset.". Managing weeds is a tangible task with an achievable outcome. To achieve the benefit does not require total elimination weeds just control to prevent weeds adversely impacting on the orchids now and into the future. A confidence level of 75% is cautionary and conservative.

% of Impact Offset

This comes to 112.99% according to the Calculator. Which exceeds the minimum of90% direct offset requirement.

Released under RTI

s 36 [redacted]@northbarker.com.au) 20220916

Document 72

From: [redacted]
To: [redacted]
Subject: FW: Department comments: Tasman Highway Upgrade Hobart Airport to Sorell Causeway (EPBC 2020/8805) [SEC=OFFICIAL]
Date: Tuesday, 6 September 2022 2:38:54 PM
Attachments: Out of scope

Hi [redacted]
Out of scope.
I have also requested that s 36 send us his GPS plots of the large trees adjacent to the Milford boundary and we will see if we can plot them onto the drawings.
Regards

s 36

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | s 36

pittsh.com.au

Out of scope

[redacted]

Document 73

From: s 36
To:
Subject: FW: New Dam - Tasmanian Golf Course - Bird Monitoring
Date: Monday, 5 September 2022 10:49:20 AM
Attachments: image002.png
image003.jpg
image004.png

Hi
Out of scope. HIAPL will be carrying initial monitoring of bird activity around the Golf Course to establish a base line. That information will then be used to determine if the new Golf Course Dam results in increased bird activity around flight paths and may trigger the need for additional mitigation measures on the dam eg netting. There is a report available if you need that.
Regards

s 36

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36

pittsh.com.au

Out of scope

Begin forwarded message:

From: '@stategrowth.tas.gov.au>
Date: 4 May 2022 at 23:27:20 GMT+1
To: Out of scope @pittsh.com.au>
Subject: RE: New Dam - Tasmanian Golf Course - Bird Monitoring

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36
Please proceed with the 12 month baseline monitoring by Birdlife Tas.
Thanks

Programming and Delivery Branch
State Roads ¦ Department of State Growth
4 Salamanca Place, Hobart TAS 7000 ¦ GPO Box 536, Hobart TAS 7001
| s 36 | email: @stategrowth.tas.gov.au
Web: www.stategrowth.tas.gov.au

image003.jpg

	Mon	Tues	Wed	Thurs	Fri
Normal week	WFH	In office	In office	In office	WFH

From: s 36 @pittsh.com.au>

Released

Sent: Wednesday, 13 April 2022 9:30 PM
To: [redacted]@stategrowth.tas.gov.au>
Subject: FW: New Dam - Tasmanian Golf Course - Bird Monitoring

Hi [redacted]

Out of scope [redacted]. The intent (although not confirmed yet) is that DSG pay for this monitoring, contractor will have some responsibility during construction which we will include in the specification, and then its over to HIAPL for ongoing monitoring.

Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | s 36 [redacted]

pittsh.com.au

Out of scope [redacted]

From: [redacted]
To: [redacted]
Subject: [redacted] Strategy and Offset Management Plan for a development on private land in Tasmania
Date: 5 September 2022 9:35:34 AM
Attachments: [redacted] OMP Offset Strategy 12 March 2021.pdf
[redacted] OMP review report 3 August 2022.pdf

[redacted]
As mentioned last week we don't think we have a lot more to do on the Orchid Management Plan. Once we are reasonably confident with the offset we wanted to go through the Plan with [redacted] and endeavour to finalise. Notwithstanding all of that we'll look through those references and see what might be applicable to Milford.
The current OMP does in fact incorporate some of what was done at Brighton - roadside conservation zone etc. North Barker were the consultants at Brighton.

Sent from my [redacted]

On 5 Sep 2022, at 08:34 [redacted] @stategrowth.tas.gov.au> wrote:

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

[redacted]
See below from [redacted], unsure of the status of the OMP review/rev 3 and if this information is helpful. I've worked with [redacted] before, although very busy, he was good.

[redacted] we discuss last week although does NB have much more updating to do on the OMP? We should discuss if we go to EPBC for unofficial comments first before going to [redacted]

Happy to discuss further.

Thanks,

[redacted]
Program Leader, Environmental Management
Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted]

www.stategrowth.tas.gov.au<https://nam02.safelinks.protection.outlook.com/?url=http%3A%2F%2Fwww.stategrowth.tas.gov.au%2F&data=05%7C01%7Cleonley%40pitsb.com.au%7C7ebaa540533492c48aa69fda8ec5905b%7C5876d30193e4ddc9c308bcf24d1a0ff%7C0%7C0%7C637979276847874087%7CUnknown%7CTWFpbGZsb3dSeyJWIjoiMC4wLjAwMDAiLCJQIjoiV2luMzIiLCJBTiI6Ik1haWwiLCJXVCI6Mn0%3D%7C3000%7C%7C%7C&sdata=0486hlcVTwqvLLvsb9jXkxjHsqbA4QeqwM6AyCzLLY%3D&reserved=0>

Courage to make a difference through
TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE

In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.
Please note I do not work Fridays.

Out of scope

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Attachment 3

Australian Government

Department of the Environment, Water, Heritage and the Arts

Approval

Brighton Bypass, Southern Section (EPBC 2009/4757)

This decision is made under sections 130(1) and 133 of the *Environment Protection and Biodiversity Conservation Act 1999*.

Proposed action

person to whom the approval is granted	Tasmanian Department of Infrastructure, Energy and Resources
proposed action	To construct the Southern Section of the Brighton Bypass, consisting of approximately 2.66km of dual carriageway and associated infrastructure

Approval decision

Controlling Provision	Decision
Listed threatened species and communities (sections 18 & 18A)	Approved

conditions of approval	This approval is subject to the conditions specified below.
expiry date of approval	This approval has effect until 31 August 2014

Decision-maker

name and position	Michelle Wicks A/g Assistant Secretary Environment Assessment Branch
signature	mwicks
date of decision	28/8/2009

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Conditions

1. To minimise impacts on the Matted Flax-lily (*Dianella amoena*), Roadside Wallaby Grass (*Austrodanthonia popinensis*) and Curly Sedge (*Carex tasmanica*) the person taking the action must carry out the mitigation measures in the manner described in the *Midland Highway Brighton Bypass (South): Translocation and Propagation Plan*

2. To minimise impacts on *D. amoena, A. popinensis* and *C. tasmanica* the person taking the action must carry out the mitigation measures in the manner described in the *Report for Brighton Bypass Project: Threatened Flora Management Plan*.

3. To compensate for the loss of *D. amoena* habitat, within 12 months of the date of this approval, the person taking the action must:
   a) Confirm arrangements for the establishment of a reserve of grassland habitat in the vicinity of the southern section of the Brighton Bypass. The size and location of the reserve must be approved by the Minister.
   b) Provide the Department with the following additional information, prior to approval of the reserve:
      - A map indicating the size and location of the reserve;
      - A population estimate of *D. amoena* plants in the reserve, based on a 2009 spring survey undertaken by qualified botanists; and
      - Proposed measures to restrict grazing activities, weed incursions and other key threats to *D. amoena* plants in the reserve.
   c) Obtain the Minister's approval of the legal mechanism proposed to establish the long-term security of the reserve.

4. To compensate for the loss of *A. popinensis* habitat, within 12 months of the date of this approval, the person taking the action must:
   a) Confirm arrangements for the establishment of one or more reserves containing at least 1,700 *A. popinensis* plants, and management arrangements for the long term protection, conservation and management of the reserves; and
   b) Obtain the Minister's approval of the legal mechanism proposed to establish the long-term security of the reserves.

5. The person taking the action must maintain accurate records of all activities associated with or relevant to the above conditions of approval, and make them available upon request to the Department. Such records may be subject to audit by the Department, and used to verify compliance with the conditions of approval. Summaries of audits will be posted on the Department's website. The results of audits may also be publicised through the general media.

6. If the person taking the action has not commenced construction activities within 5 years of this approval then they must notify the Minister in writing and not commence construction without the Minister's agreement.

7. The person taking the action must advise the Department in writing of the date of commencement of construction activities.

Definitions:
construction includes site disturbance any excavation or stockpiling of soil, clearing of vegetation, erection of fencing, installation of service infrastructure and / or construction of buildings or infrastructure.
the Department means the Australian Government Department responsible for administering

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the *Environment Protection and Biodiversity Conservation Act 1999*.
the Minister means the Australian Government Minister responsible for administering the *Environment Protection and Biodiversity Conservation Act 1999*.

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From:
To:
Cc:
Subject: EPBC Timeframe
Date: Thursday, 1 September 2022 4:25:05 PM
Attachments: image001.png
image002.png
image003.jpg
EPBC timeframe 1 September 2022 .docx

Hi

That reminded me that I had previously plotted out the time frame. I have just updated it and it looks like May 2023 **if** we can finalise matters with s36 by 30 November.

Keira, could you please check my assumptions on time frames post 30 November. I referenced the flow chart on the EPBC website when I first prepared this.

Regards

s 36

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36

pittsh.com.au

From: @stategrowth.tas.gov.au>
Sent: Thursday, 1 September 2022 3:20 PM
To: s 36 @pittsh.com.au>
Subject: RE: Minutes of meeting at Milford, 29 June 2022, plus attachments AND ACCESS ESTIMATE

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36

I spoke to about this earlier and the advice was 6 months for EPBC. Should be revise to May 2023 tender? That gives us two months to sort this out with s36 Thanks for the further advise on the below.

Happy to discuss further.

Thanks,

Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
| s 36
www.stategrowth.tas.gov.au

Courage to make a difference through
TEAMWORK | INTEGRITY | RESPECT | EXCELLENCE
In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From: s 36 @pittsh.com.au>
Sent: Thursday, 1 September 2022 12:09 PM
To: @stategrowth.tas.gov.au>
Subject: RE: Minutes of meeting at Milford, 29 June 2022, plus attachments AND ACCESS

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ESTIMATE

Hi [redacted]

I will get a program to you next week – at this stage we'll assume approvals in place say end of March 2023 and call tenders then?

We have the design for the interchange shared path lights and our people are reviewing that and ensuring uniformity of components

The Deed in D24/195064 is a draft of the proposed covenant for the compensatory planting area. I expect the offset area will have something similar, I will discuss with Crown Law.

I clarified the trees that were planted on Milford by Wild Seed. The seed did in fact come from the tree that was opposite the airport runway and removed for the interchange works. That tree was a particular sub species of Eucalyptus Viminalis.

Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: [redacted] @stategrowth.tas.gov.au>
Sent: Thursday, 1 September 2022 11:29 AM
To: s 36 [redacted] @pittsh.com.au>
Subject: RE: Minutes of meeting at Milford, 29 June 2022, plus attachments AND ACCESS ESTIMATE

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Hi s 36 [redacted]

Thanks for the chat yesterday. I had some other items I did not ask.

1. Can you please provide an updated program showing construction dates.
2. There has been work on the airport interchange project around the shared path lighting. We may need to review this against what we have – HB has or will be sending this to s 36 [redacted].
3. The deed in the folder at D22/195064, is this a draft compensation agreement between Milford and the Crown?

Happy to discuss further.

Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

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In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

Please note I do not work Fridays.

From: s 36 [redacted] @pittsh.com.au>
Sent: Wednesday, 24 August 2022 2:53 PM
To: [redacted] @stategrowth.tas.gov.au>

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Subject: FW: Minutes of meeting at Milford, 29 June 2022, plus attachments AND ACCESS ESTIMATE

Hi [redacted]

Refer email sent to you on 31 July 2022. The access estimate is in D22/195064 along with other documents referenced in my responses to the Milford actions (first attachment). I have also attached the estimate here.

Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: s 36 [redacted]
Sent: Sunday, 31 July 2022 1:05 PM
To: [redacted]@stategrowth.tas.gov.au>
Cc: [redacted]@stategrowth.tas.gov.au>
Subject: RE: Minutes of meeting at Milford, 29 June 2022, plus attachments

Hi [redacted]

I have provided responses in a new column in the notes. There are a number of attachments which are filed in D22/195064. Matters which require further assessment are noted as WIP.

Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: [redacted]@stategrowth.tas.gov.au>
Sent: Thursday, 28 July 2022 6:27 PM
To: s 36 [redacted]@pittsh.com.au>
Cc: [redacted]@stategrowth.tas.gov.au>
Subject: RE: Minutes of meeting at Milford, 29 June 2022, plus attachments

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Hi s 36 [redacted].

Thank you again for your time, all 3 hours of it, on Tuesday to discuss the Milford issues. I really do appreciate you helping me with my many questions and having patience as I get up to speed, I know we are going over old ground in a lot on instances. I have attached a spreadsheet with actions of each of the agenda items discussed. Items closed out in grey, actions in bold, bold and italic are post meeting actions.

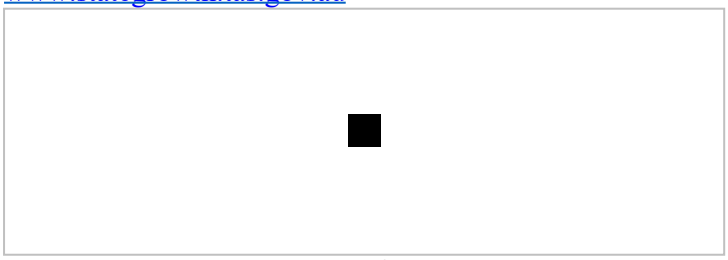
Happy to discuss further.

Thanks,

[redacted]
Programming and Delivery | Department of State Growth

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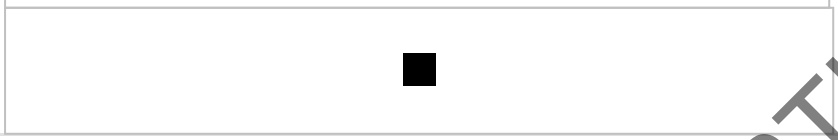
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au



My current work pattern is as follows:

Mon	Tues	Wed	Thurs	Fri
In office	In office	In office	In office	OOO





From: s 36 [redacted]@pittsh.com.au>
Sent: Tuesday, 19 July 2022 10:26 AM
To: [redacted]@stategrowth.tas.gov.au>
Cc: [redacted]@stategrowth.tas.gov.au>
Subject: Re: Minutes of meeting at Milford, 29 June 2022, plus attachments

Ok for next Tuesday 2.30-4 pm but it'll have to be on line as I will be in Qld. Can you please send an invite

Sent from my iPhone

> On 19 Jul 2022, at 10:10, [redacted]@stategrowth.tas.gov.au> wrote:
>
> CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.
>
> Hi [redacted].
> Unfortunately our calendars do not align with week. What is your availability next week? [redacted] and I are available:
>
> - Monday 25/7
> - 8:30am – 10am
> - 11 – 2pm
> - Tues 26/7
> - 2:30 – 5pm
> - Wed 27/7
> - 8:30am – 9:30am
> - 2 – 5pm
>
> My preference is Tuesday 2:30 – 4pm.
> Happy to discuss further.
> Thanks,
> [redacted] | Project Manager
> Programming and Delivery | Department of State Growth
> 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

Released under RTI

[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

image001.png

My current work pattern is as follows:

Mon	Tues	Wed	Thurs	Fri
In office	In office	In office	In office	OOO

image002.png

image003.jpg

From: s 36 [redacted] @pittsh.com.au>
Sent: Thursday, 14 July 2022 9:16 PM
To: [redacted] @stategrowth.tas.gov.au>; [redacted] @stategrowth.tas.gov.au>
Subject: RE: Minutes of meeting at Milford, 29 June 2022, plus attachments

Hi [redacted]

My email which you have yet to look at covers quite a few of these matters. There is still a lot of potential for confusion on both sides with all of this. I suggest that after you have read my 12 July email we meet face to face with [redacted] and go through the matters raised by s 36 [redacted] in her amended notes to ensure absolute clarity on what has been agreed previously, what has been ruled out previously and what of any of that it might be possible to change.

I am available next Monday afternoon, Wednesday after 2 pm, Thursday morning or Friday afternoon. Please send through a meeting request.

Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: [redacted] @stategrowth.tas.gov.au>
Sent: Thursday, 14 July 2022 6:14 PM
To: s 36 [redacted] @pittsh.com.au>
Cc: [redacted] @stategrowth.tas.gov.[redacted] y@stategrowth.tas.gov.au>; s 36 [redacted] @pittsh.com.au>
Subject: FW: Minutes of meeting at Milford, 29 June 2022, plus attachments

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Hi [redacted]

Please find minutes from s 36 [redacted], all 23 pages. s36 s39 [redacted] I have summarised the key action items below.

Some of these items may be a double up from our other email trail which I have not yet caught up on, my first task for Monday.

1. Alternate driveway access
    a. Can you please provide a proposal for the design of the . There may be a requirement for passing bays for emergency vehicles, can you let me know if this required?
    b. S [redacted] completed a landscaping plan. Was s36 [redacted] happy with it? Was this covered in the s 38 [redacted] estimate?
    c. s36 [redacted] has requested a frangible and lockable gate at the property entry. To be this sounds like a contradiction although what is possible?
    d. s36 [redacted] also askes about the possibility of a remote controlled gate, she would pay for this. Is this possible given point 1c?
2. Fire trail (northern boundary)
    a. Can the fence be realigned to the northern side of the yellow (on plans) access track meaning only one track is required? There may be some instances where a right of way would be required to link the track. This would greatly assist negotiations. This may require a similar agreement with the Kidbrook property in Sorell as we would be allowing s36 [redacted] access to DSG land and the fence would not be on the true boundary.
    b. Has a NVA survey been completed for the fire trail? Are there are other surveys or assessments we need to complete for the fire trail?
    c. Are passing bays required given the length of the fire trail?
3. Fire access gate on corner of Pittwater road
    a. Is this possible?
    b. There is a TN substation on corner of Pittwater road on the TN drawings although not on the contract drawings. Does this impact the access gate into Milford

i. If the substation is in the way of the gate, can we relocate the substation?

    c. The frangible gate. Same 1c and 1d.
4. TW meter.
    a. Can electric/remotely read meters be installed?
    b. Do we know where the meters will be?
    c. Can Pine meter be installed closer to Pines?
5. Golf club take off
    a. What access is required to Milford to complete these works?
6. Offset/OMP
    a. Item 3.1 (pages 12 – 13)
    b. Do we need to commit to a 99 year plan? What are the EPBC requirements?
    c. What are the EPBC requirements around landowner consent? Is it a requirement to obtain their ensorsement of the plan or for access to undertake the activities in the plan?
    d. Can you confirm NRE's threatened species section was reviewed when

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plotting the orchids on map within the OMP?

e. Does a drainage, weed and offset mgmt. plans need to be in the OMP?
f. Can fire be used on this site given proximity to the airport?
g. Page 18, the tree falling time limitations, is this correct?

7. Storm water into Milford
    a. The additional reports suggest the water would dissipate into the sandy soil before getting into Milford. What were the max conditions considered? 1/100 year event? Please see s36 comments on page 19 suggesting it doesn't dissipate now. I think he may be referring to the hardstand area on Pittwater road.
8. Animal underpasses
    a. Please let me know what the cost estimate would be to install an animal underpass and the associated impacts, additional drainage, light of sight, land acq.
9. Compensationary planting
    a. Can you send through where this was agreed to 10 years? I believe it was at a tribunal.
    b. How is the 10 year plan and the legal agreement for access progressing?

Happy to discuss further.

Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

image001.png

[redacted]

My current work pattern is as follows:

Mon	Tues	Wed	Thurs	Fri
In office	In office	In office	In office	OOO

image002.png

[redacted]

image003.jpg

[redacted]

Out of scope

[redacted]

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Attachment 1

Activity	Estimated time	Target completion date
Complete preliminary documentation	(i) onsite meeting with s36 29 June 2022 (ii) obtain agreements from s36 for OMP and covenants	30 November 2022
DAWE approve preliminary documentation and direct to publish	3 weeks	21 December 2022
Publish	1 week	13 January 2023
Advertising period	4 weeks	10 February 2022
Deal with comments	4 weeks	10 March 2023
Amend Documentation and advertise	2 weeks	24 March 2023
DAWE makes recommendation to Minister and Minister's decision	8 weeks	19 May 2023

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Attachment 2

Item No.	Issue	Sub-issue	26-Jul	Response DC 29-Jul
1	Alt. driveway access	Requesting proposal from P&S for design of alt. driveway	Power poles to low and may need to relocated and water needed on other side of the road. **DC to confirm if poles require relocation/underground**	The power poles have about 4 metres vertical clearance. This powereline is on the Milford property and not owned by Tasnetworks. Tasnetworks Overhead Distribution Design Manual does require 5.5 m clearance over a private driveway.
		Cost est. for landscaping plan	Need a schedule from **DC to follow up**	Refer attached estimate Milford Access 29072022
		What was included in the landscaping estimates?	DC confirmed no flower planting in landscape plan, not maintenance. Closed	
		Heritage and landscape requirements	**DC to check with Doug if not is required for DA, heritage, etc.**	Forwarded to 29/07/2022
		grants to pay if he can have a remote controlled gate	**KP to understand what grants exactly**	
		Does the gate need to be keyable? Can the gate be lockable and frangible?	**As above**	
2	Fire trail (north)	Can the fence realigned to the northern side of the yellow (on plans) access track meaning only the track is required? There may be some instances where a right of way would be required to use the track. This would greatly assist negotiations. This may require a similar agreement with the Kidbrook property in Sorell as we would be allowing access to DSG land and the fence would not be on the true boundary. Has a NVA survey been completed for the fire trail? Are there are other surveys or assessments we need to complete for the fire trail?	Only Pittwater Road corner (100m) and stopping corner (180m) that is a new track, rest used the current sandy track. **DC to develop a drawing showing the new track overlaid on a satellite image** **DC to confirm that this has occurred**	Refer drawing sent to KP from 29/07/2022. Also sections of realigned track now in blue and existing now in green on Drawings 1108 - 1112 attached Confirmed by . Refer attached emails.
		Are passing bays for emergency vehicles required given the length of the fire trail?	***DC to send through where this was confirmed in the planning commission***	The matter of passing bays was raised by in her representation on the Development Application and in the Appeal. The Tribunal did not mandate a condition for passing bays. The permit does include "advice" that "Council encourages consultation between the owner of Milford and the Department of State Growth in relation to the provision of fire compliance access for Tasmanian Fire Service into the Milford Forest" The new access from Pittwater Road when combined with the access track on the road reserve and the existing and realigned Milford track will provide a "deemed to comply" access with respect to passing bays.
		Can the fire trail access gate be moved to the corner of Milford boundary?	DC confirmed this can be done. Closed	
		There is a TN substation on corner of Pittwater road on the TN drawings although not on the contract drawings. Does this impact the access gate into Milford? If so, can it be relocated?	DC confirmed no impact to Milford, the SS will be on the old road hardstand. Easement does not extend into Milford. Closed	
		Can a remote controlled, frangible and lockable gate be installed?	**As item 1 - KP action**	
3	TW meter	Can electric/remotely read meters be installed?	DC confirmed no landowner read meters are available, only for TW employees on TW's system. Closed	
			Water mains where they are now and are not moving, remaining on Milford wants it moved to the corner of Pittwater road although we don't know where it goes so it could impact orchid habitat. Closed	
		Do we know where the meters will be?	No, please anyone could tap into it. Closed	
		Can Pine meter be installed closer to Pines?		
4	Golf club take off	What access is required to Milford to complete these works?	We will need to access, by foot as minimum. The condition of the connection is unknown, if it is bad there may need to be works on the property ***to send advice to KP on what this would look like and what the risks are (if valves need updating, etc) of the impact increasing***	
5	Storm water into Milford	The additional reports suggest the water would dissipate into the sandy soil before getting into Milford. What were the max conditions considered? 1/100 year event?	**DC to advise.**	The reports cover both the 1/100 year and the 1/20 year events
		Page 19 - water running down the road and into Milford	DC has emailed CCC and requested removal of hardstands and re veg to eliminate runoff. Highly unlikely CCC will action these requests. ***KP to discuss internally about increasing limit of works or other initiatives to mitigation this issues.***	
6	Animal underpasses	Can you please provide a high level cost est. for installing an animal underpass	They cannot go in due to road height and line of sights. They typically need be 2x2m. It's not a high risk area (not a roadkill hot spot), no fornx, would move animals to the golf course. **KP & KG to discuss further**	Refer also separate email from on the assessments and methodology he used in reaching conclusions about fauna presence and movements
		What other impacts does this have? I.e.. animals accessing Milford to eat the Orchids?	Closed	
		Can we convert existing culverts to animal crossing culverts?	No. Closed	
7	Compensatory plantine	Can you please develop a 10 year plan?	**DC to discuss with sub-contractor. KP to confirm funding source**	Work in progress
		Legal means for access?	Access to be wrapped with offset. **KP to confirm if grants a covenant**	Draft covenant attached
8	Offset/OMP	What are our commitment requirements to the OMP? Is it 99 years?	50m into the boundary is DSG responsibility for ever. Likely to be 10 years then ever 5 years there after. There is an example of this at Brighton. **To be considered in the OMP review/update**	Orchid management plan extends 50 m into the Milford property. Actions are stated as "annually" "every 5 years" etc Comments received from a meeting with NRE on 16/06/2022. NRE feedback is contained in yellow highlights in the attached 2 RE19197-RPT-REP-001Orchid Management PlanREV03 and email from on 20/07/2022. Matter raised in the latter email were rubbish dumping, changes in hydrology and changes to setting of rubbish dumping to Defence and not DSG responsibility, particularly that being dumped in Pittwater Road. The OMP does include monitoring and mangement of rubbish on Milford. Changes in hydrology are covered in the Stormwater Discharge Analysis and Stormwater Management Plan (Appendices J an K of the reliminary Documentation)
		Did we review NRE's threatened species section when developing the OMP?	**DC please confirm**	
		Do we require weed, drainage and offset mgmt plan in the OMP?	50m RCs will be one plan. A second plan for the rest of the area will be developed. Closed	
		Stormwater Discharge Analysis and Stormwater Management Plan (Appendices J & K of	**DC please confirm**	The *Bushfire Management Plan Eucalyptus viminalis Woodland on Milford* May 2008, supplied by on 07/07/2022 does refer to prescribed burning as a strategy for managing the woodland. With respect to orchids the plan advises that "burning should not be undertaken until a survey is carried out to determine the approximate extent of each species and the number of plant numbers" and that following that "half the population can be burned and the other half should not be burnt until the recovery of the species following the first burn has been confirmed. The plan also advises that burning cannot be carried when winds will carry smoke towards the airport, the highway or greenhouses to the south of the site. These limitations most likley restrict burning to calm days. Our understanding is that burning has not been adopted as an orchid management strategy on Milford hence berning was not covered in our Orchid Management Plan. THIS WILL BE AN ITEM FOR FURTHER CLARIFICATION WITH
		Would funding a research grant be a way to compensate the impact? 10%	Note. Closed	
		Does landowner get final say on EPBC report? Is this confirmed?	**Kp to review DC's email sent, from DAWE, to KP on 16/17 March from Renee**	Email attached. The statement from DAWE is "Please demonstrate that the Orchid Habitat Impact Assessment and Mitigation Plan has the agreement of the landholder to be implemented effectively on the Milford Property. "
		If landowner endorsement is required, what form does the EPBC require this in?	Needs to be a written legal agreement. Will need to tie in agreement to have covenant on her land. Closed	
		Can we align the offset with social, economical or environmental co-benefits? P. 10 of EPBC environmental offsets policy	Note	
		We need to submit an offsets proposal (p. 12), is the OMP an appendix to this?	In the submission. Closed	
		Have we submitted a 'rev 1' to DAWE? What was the outcome?	No submission yet. Closed	
		What is involved in getting a covenant? Can we start that process now and confirm the exact location of the offset once agreed with	**DC to send to KP**	
		Habitat for threatened species - p. 17 last paragraph. What would this involve if site 8 and 9 were upgraded to the current known habitat	Better to offset the known habitat. Other sites to be considered if required preference is not to offset the orchids. ***KP to discuss further with KG***	
		With a large offset like this, how is it assessed as the land quality/value would likely fluctuate. The offset wouldn't be over the existing habitat, although the covenant could be. Or would it be over the existing habitat and we better that habitat? i.e.. fern removal, slashing, burning	Ask DAWE would the EPBC accept the RCS (50m) inside Milford as the offset or was this considered in the mitigation? Ask EPBC where the offset needs to be. **DC to discuss with DAWE**	WIP
		Are we better sending through a 95% submission, giving DAWE a opportunity to advise where it needs to be improved or are we better putting through the best submission and they assess it as that first up?	100%. Closed	
		Fed gov offset or state gov offset? (p.22)	No state gov offset. No permit requirements as we are not taking a species (state gov requirements). Closed	
		not receiving any grants to better the land? (p.22)	**KP to discuss with**	
		P.23, we need state approval as well at EPBC approval? State comes first, have we got this? If not, what do we need to do?	No state approval. Closed We do for life for EPBC approval which will determine the length (usually 20 years). Maybe more. Requires further discussion. Closed	
		Who completes the annual reporting and how long do we need to do this?	OMP will have an actions section. Closed	
		When will the offset/offset responsibilities commence?		

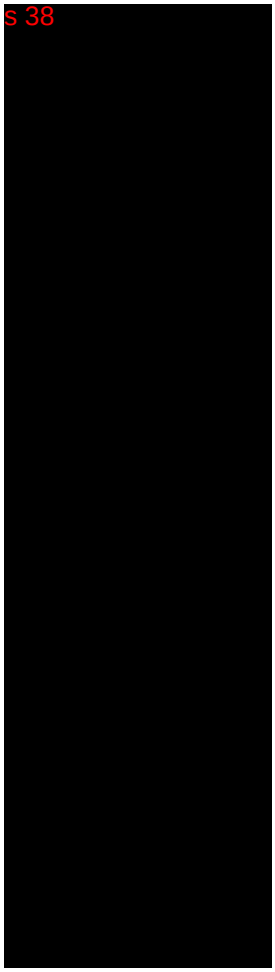
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Attachment 3

s 38



Released u



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From:
To:
Subject: Fwd: Tasman Highway EPBC
Date: Friday, 26 August 2022 12:45:29 PM
Attachments: image001.png

Hi
Below is the advice from on why s 36 concept of the Orchid Management Plan is incorrect
Regards
s 36

Sent from my iPhone

Begin forwarded message:

From: "@stategrowth.tas.gov.au>
Date: 19 August 2022 at 12:22:50 AEST
To: s 36 @pittsh.com.au>
Subject: RE: Tasman Highway EPBC

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36
Sorry for the late response – essentially yes, you are correct.
The 'Recovery Plan for 12 Threatened Orchids in the Lofty Block Region SA' which was provided to us by s36 , is provides a framework for twelve EPBC threatened orchid species that occur in the Lofty Block region of South Australia. The Recovery Plan sets out the actions necessary to stop the decline of, and support the recovery of, the listed threatened species and was prepared identify the recovery objectives, strategies and actions to improve the conservation status of each of the listed species within a specified timeframe e.g. from Endangered to Vulnerable within 30 years (refer Part B). Each recovery strategy is supported by a number of recovery actions which seek to benefit broader biodiversity conservation, principally though the protection and management of habitat and increasing community awareness and involvement in biodiversity conservation. As such the recovery actions extend beyond site specific management actions e.g. surveys for historical locations for extent and sub-populations, encourage landholders to enter into heritage agreements, support university research, include information about the species in newsletters and fact sheets etc.
As the supplied Recovery Plan has been developed as a strategic biodiversity recovery plan for the listed species, and not as site specific management plan related to a project, it is not in a format nor has it be prepared for the same purpose and objectives we are required to meet as part of our Preliminary Documentation.
The Preliminary Documentation (PD) further information request details the

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information we are required to prepare in order for the PD to be approved and published. This follows a standard format as part of the EPBC assessment process and any management plans should consider the Australian Government's Environmental Management Plan Guidelines. The Orchid Management Plan prepared by p&s was prepared as a site specific management plan with the objective to identify measures to avoid, minimise and mitigate potential direct and indirect impacts during construction and operation to the listed orchid species and their habitat on the Milford Property associated with the upgrade of the Tasman Highway (i.e. the action). Like a fauna management plan which may include mitigation measures for Tasmanian Devils during construction and operation e.g. pre-works survey, den checks, decommissioning of dens etc. this plan has been prepared as a project specific construction environmental management plan and not specifically for supporting species recovery (e.g. research into devil facial tumour disease etc). Therefore, mitigation and management measures included in the Orchid Management Plan relate to project related impacts e.g. vegetation clearing, sedimentation and run-off, weed infestation etc.

As part of the PD the project has been identified as having residual impacts on the listed orchid species and will require an offset in accordance with the EPBC Offsets Policy. Offsets should be tailored specifically to the attribute of the protected matter that is impacted in order to deliver a conservation gain. For example, if the impact is the removal of foraging habitat for a listed threatened bird species, then an appropriate offset would be creating new similar habitat through re-vegetation works, improving the quality of existing foraging habitat for the species, and/or protecting existing foraging habitat though putting a conservation covenant on the title of the land. Under the Offsets Policy the offset must achieve a minimum 90% land based offset and can (if agreed to by the Commonwealth) include up to 10% of the offset based on compensatory measures. Compensatory measures can include recovery actions such as developing a recovery plan, research or community awareness etc. In most cases, proponents satisfy a 100% direct offset. To achieve the direct offset, an offset management plan will be required to be prepared in accordance with the Australian Government's Environmental Management Plan Guidelines and again will be a site specific management plan for the agreed offset area. This can be prepared as part of the PD or sometimes as a condition of the approval. It will need to speak to the proposed action and detail a description of the affected values and expected timing of these impacts and the legal mechanisms under which the offset will be legally secured. To achieve the offset objectives it must define baseline ecological condition of the offset area, provide clear conservation objectives, detail conservation management strategies and measure success. The offset management plan should include a description of how the conservation outcomes of the EPBC Environmental Offsets Policy will be achieved; key stakeholders and responsibilities, management mechanisms including timeframes, maintenance, monitoring and reporting and corrective actions; and identification of risks and uncertainly associated with the offset.

Hope this helps clarify. Happy to discuss.

Cheers,

[redacted]
Environment & Development Approvals
State Roads | Department of State Growth
Level 2, 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001

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[redacted]@stategrowth.tas.gov.au
www.stategrowth.tas.gov.au
In recognition of the deep history and culture of this island, I acknowledge and pay my respects to all Tasmanian Aboriginal people; the past, and present custodians of the Land.

[redacted]

From: s 36 [redacted]@pittsh.com.au>
Sent: Friday, 19 August 2022 8:35 AM
To: [redacted]@stategrowth.tas.gov.au>
Subject: Fwd: Tasman Highway EPBC

Hi [redacted]
Have you had a chance to consider this one?
Regards
s 36 [redacted]

Sent from my iPhone

Begin forwarded message:

> **From:** s 36 [redacted]@pittsh.com.au>
> **Date:** 12 August 2022 at 08:41:37 AEST
> **To:** [redacted]@stategrowth.tas.gov.au>
> **Subject: Tasman Highway EPBC**
>
> Hi [redacted]
> Following our meeting a couple of weeks, could you please clarify the different purpose of the Orchid Recovery Plan as proposed by s 36 [redacted] compared with the Orchid Management Plan that we have prepared. My assessment is that the Recovery Plan aims to re-establish a species whereas our Plan is to better manage what is already there?
>
> Regards
>
> s36 [redacted]
>
> Sent from my iPhone

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From: s 36 [redacted]
To: [redacted]
Cc: [redacted]
Subject: RE: HIAPL Milford drawing - Fire access track
Date: Friday, 29 July 2022 4:24:06 PM
Attachments: image001.png
image002.jpg
image003.png

Hi [redacted]
For clarity I have made a couple of important amendments below. [redacted] please confirm.
Regards
s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

From: [redacted]@stategrowth.tas.gov.au>
Sent: Friday, 29 July 2022 10:40 AM
To: [redacted]@stategrowth.tas.gov.au>
Cc: s 36 [redacted]@pittsh.com.au>; [redacted]@stategrowth.tas.gov.au>
Subject: FW: HIAPL Milford drawing - Fire access track

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

[redacted],
Is this the drawing you want from s 36 [redacted]
The issue of passing bays for fire trucks on the track was raised in the planning hearing and dismissed. There is no requirement from our side to put in truck passing bays which would have a further impact on orchids and orchid habitat, s 39 [redacted]
s 39 [redacted]. Under CCC planning requirements new ~~near~~ access tracks (which this is not) require fire truck passing bays
[redacted]
Programming and Delivery Branch
State Roads ¦ Department of State Growth
4 Salamanca Place, Hobart TAS 7000 ¦ GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted] | [redacted]@stategrowth.tas.gov.au
Web: www.stategrowth.tas.gov.au

[redacted]

Email Signature - accredited workplaces low res

[redacted]

	Mon	Tues	Wed	Thurs	Fri
Normal week	WFH	In office	In office	In office	WFH

From: s 36 [redacted]@pittsh.com.au>
Sent: Friday, 11 March 2022 4:46 PM
To: [redacted]@stategrowth.tas.gov.au>

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Subject: RE: HIAPL Milford drawing

Hi [redacted],

Attached are updated drawings following our meeting yesterday. I ducked down to Pittwater Road about two hours a ago and confirmed that there isn't a gate allowing access from the HIAPL land onto Pittwater Road associated with the middle east/west aligned track. Accordingly HIAPL only has access onto Pittwater Road via the connections that we have labelled on drawing P42.

Please let me know if you have any queries. If you would still like us to print of a hard copy let me know.

Cheers

s 36 [redacted]

s 36 [redacted]

Transport Leader - Tasmania

s 36 [redacted]@pittsh.com.au

pittsh.com.au

COVID-19 guidance for our clients, guests, suppliers and contractors

From: [redacted]@stategrowth.tas.gov.au

Sent: Friday, 11 March 2022 4:37 PM

To: s 36 [redacted]@pittsh.com.au>

Subject: HIAPL Milford drawing

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s 36 [redacted],

Can you please send through that drawing.

Thanks

[redacted]

Programming and Delivery Branch

State Roads ¦ Department of State Growth

4 Salamanca Place, Hobart TAS 7000 ¦ GPO Box 536, Hobart TAS 7001

[redacted] | s 36 [redacted] | [redacted]@stategrowth.tas.gov.au

Web: www.stategrowth.tas.gov.au

[redacted]

Email Signature - accredited workplaces low res

[redacted]

	Mon	Tues	Wed	Thurs	Fri
Normal week	WFH	In office	In office	In office	WFH

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Released under RTI

Document 78

From: [redacted]
To: [redacted]
Subject: FW: HB19197 Updated C1108 drawing
Date: Thursday, 21 July 2022 11:27:41 AM
Attachments: image001.png
image002.jpg
image003.png
HB19197-C1108.pdf

Hi [redacted]
We have updated the Milford access as on attached and added the Tasnetworks switch station to convert from underground to overhead (located on what will become redundant road). We haven't specifically addressed the frangible gate issue at this stage but have assumed a wide opening. For discussion next week, however in principle you could consider fencing on the northern side of the yellow track along the Milford frontage and allowing s 36 [redacted] to use the road reserve. The key issue I think is whether such an arrangement would be suitable for road maintenance purposes and whether maintenance personnel can obtain satisfactory access to the base of the fills batters and drainage outlets.
Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

Out of scope [redacted]

under RTI

Attachment 1

PROVIDE THRIE BEAM SAFETY BARRIER FROM CH.1460 TO CH.1665 (DL-EB)

EXISTING PROPERTY BOUNDARY

BARILLA SERVICE ROAD

CONSTRUCT B1 KERB FROM CH.1669 (DL-EB) TO CH.22 (GCSRD)

CONSTRUCT M1 KERB

CONSTRUCT RETAINING WALL. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.

CONSTRUCT B1 KERB FROM CH.46 (BBSRD) TO CH.55 (GCSRD)

PROVIDE SAFETY FENCE. REFER TO STRUCTURAL DRAWINGS FOR DETAILS.

NEW PROPERTY BOUNDARY AND FENCELINE

FP-204

FP-205

FP-206

FP-207

FP-208

CONSTRUCT B1 KERB FROM CH.1729 (DL-EB) TO CH.67 (GCSRD)

INSTALL 1.8m HIGH CHAINWIRE SECURITY FENCE ON BOUNDARY. FOR FENCE DETAILS REFER TO VICROADS SD3131.

TRANSITION FROM W-BEAM TO THRIE BEAM SAFETY BARRIER AT CH.75 (GCSRD) AND CONTINUE THRIE BEAM TO CH.65 (GMARD)

INSTALL FLEXIBLE SAFETY BARRIER CH.1737 - CH.2696 (DL-EB)

DESIGN LINE: GCSRD

GOLF COURSE SERVICE ROAD

PEDESTRIAN RAMP - LOCALLY DROP KERB TO GUTTER INVERT AND SHAPE PATH TO SUIT

1.5 TYP

DESIGN LINE: BBSRD

DESIGN LINE: MCSR

TRANSITION FROM M2 KERB TO M1 KERB AT CH.1729 (DL-WB)

CONSTRUCT M1 KERB

INSTALL W-BEAM SAFETY BARRIER FROM CH.1747 (DL-EB) TO CH.75 (GCSRD) WITH TRAILING TERMINAL AT CH.1747 (DL-EB)

CONSTRUCT M2 KERB

DESIGN LINE: MC2

DESIGN LINE: DL-EB

DESIGN LINE: DL-WB

DESIGN LINE: MC1

DESIGN LINE: PWRD

TASMAN HWY

JOINS - SHEET 1107

JOINS - SHEET 1109

MIDWAY POINT ▶

NEW PROPERTY BOUNDARY AND FENCELINE

EXISTING WATERMAIN EASEMENT

INSTALL FLEXIBLE SAFETY BARRIER CH.1730 - CH.2624 (DL-WB)

TRAILING TERMINAL. REFER TO VICROADS SD3544.

INSTALL RABBIT PROOF POST AND WIRE FENCE ON BOUNDARY. FOR FENCE DETAILS REFER TO SPECIFICATION

PROVIDE DOUBLE GATE WITH 7.2m OPENING

INSTALL FLEXIBLE SAFETY BARRIER CH.1730 - CH.2620 (DL-EB)

INSTALL W-BEAM SAFETY BARRIER FROM CH.34 (PITTWATER ROAD) TO CH.1735 (DL-WB)

TASNETWORKS SWITCH STATION AND EASEMENT

NEW WATERMAIN ACCESS TRACK IN ROAD RESERVE

ADDITIONAL RIGHT OF WAY EASEMENT. REFER TO SHEETS 1208 AND 1271 FOR SEPARATE SETOUT SCHEDULE.

REMOVE REDUNDANT ROAD

◀ HOBART

NEW PROPERTY BOUNDARY AND FENCELINE

INSTALL FLEXIBLE SAFETY BARRIER CH.440 - CH.1685 (DL-WB)

CONSTRUCT M2 KERB

INSTALL G.R.E.A.T. TERMINAL AT CH.1685 TO MATCH TO THRIE BEAM AT CH.1665

INSTALL POST AND WIRE FENCE ON BOUNDARY. FOR FENCE DETAILS REFER TO SPECIFICATION.

3 x BOLLARDS TO BE INSTALLED IN ACCORDANCE WITH VICROADS SUPPLEMENT AS1742.9:2000 TEM VOL 2 PART 2.9 FIGURE 11

FP-305

TRANSITION FROM M1 KERB TO M2 KERB AT CH.1690 (DL-WB)

INSTALL RABBIT PROOF POST AND WIRE FENCE ON PITTWATER ROAD BOUNDARY. FOR FENCE DETAILS REFER TO SPECIFICATION.

FP-306

DESIGN LINE: MCPR

PITTWATER RD

SEVEN MILE BEACH

JOINS INSET

WATER MAIN ACCESS TRACK

MILFORD ACCESS 02

DESIGN LINE: MILF2

DESIGN LINE: PWRD

PITTWATER RD

SEVEN MILE BEACH ▶

FP-307

FP-308

INSET

SCALE: 1:500

LEGEND

- 40mm TYPE H ASPHALT
- TWO COAT SPRAY SEAL
- SHARED USE PATH
- PAVED MEDIAN

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No.	Amendment Description	Initials	Date
B	DETAILED DESIGN	D.C.	08/02/2022
A	DETAILED DESIGN	D.C.	17/03/2021

A3 original | This sheet may be prepared using colour and may be incomplete if copied

SCALES
1:500m (A3)
5 0 5 10 15 20
SCALE IN METRES - 1:500

Co-ordinate System: MGA ZONE 55 | Height Datum: A.H.D.

pitt&sherry

Tasmanian Government

DESIGNED s36

REVIEWED s36

Department of State Growth

TASMAN HIGHWAY (A0113)
HOBART AIRPORT TO WESTERN CAUSEWAY
ROADWORKS

GENERAL ARRANGEMENT - DRG 8

CONTRACT No.	DRAWING	PRINTED DATE	SHEET No.
3148	HB19197-C1108	18-Jul-22, 4:59 PM	1108

REGISTRATION NUMBER
A0113.028

REVISION B

From:
To:
Cc:
Subject: RE: Progress report and Orchid Management Plans
Date: Thursday, 21 July 2022 11:09:58 AM
Attachments: image001.png
image002.png
image003.jpg
Draft offset calculations.xlsm
Duplicate f

Hi

I haven't been able to locate an EPBC offset management plan that Pitt & sherry have prepared. Do you think this needs to be a separate plan or is it part of the Orchid Management Plan?
We put some preliminary numbers into the AWE offset calculator (attached) based on impact to 0.08 Ha of critical habitat and 0.21 Ha of secondary potential habitat – total 0.3 Ha. Table 5 of the Referral Report (also attached.)
Regards

s 36

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36

pittsh.com.au

From: @stategrowth.tas.gov.au>
Sent: Tuesday, 19 July 2022 11:10 AM
To: @stategrowth.tas.gov.au>; s 36
@pittsh.com.au>
Cc: s 36 @pittsh.com.au>;
@stategrowth.tas.gov.au>; @stategrowth.tas.gov.au>
Subject: RE: Progress report and Orchid Management Plans

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi all,
Sorry for the lack of response.
As discussed, we will need to provide an EPBC Offset Management Plan for the orchids which has been prepared in accordance with the EPBC Offset Policy. These management plans usually follow a standard format based on the Cth's EMP Guidelines
Do p&s have an example from another project they could share? Otherwise I will find a couple of publicly available ones we can use as a template.
How are we going with the Offsets Calculator? It would be great to know our impact to know our required offset. This should be the starting point for identifying our minimum offset area for negotiation with s36 . I'm conscious we may not want to secure the entirety of the area in case offsets are triggered for the causeways EPBC approval.
Cheers,

Environment & Development Approvals
State Roads | Department of State Growth
Level 2, 4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
@stategrowth.tas.gov.au

Released under RTI

www.stategrowth.tas.gov.au

[redacted]

From: [redacted]@stategrowth.tas.gov.au>
Sent: Tuesday, 19 July 2022 11:00 AM
To: s 36 [redacted]@pittsh.com.au>; [redacted]
<[redacted]@stategrowth.tas.gov.au>
Cc: s 36 [redacted]@pittsh.com.au>; [redacted]
[redacted]@stategrowth.tas.gov.au>
Subject: RE: Progress report and Orchid Management Plans

Hi team.

Another one from s 36 [redacted] with the following message.

s 36 [redacted] *has located this example of another good orchid/habitat management plan, this one from Victoria. It covers more species than orchids however. It is also quite old now, and I am sure there have been improvements since then.* s 36 [redacted] *advises that there are plenty on the internet to look at.'*

Happy to discuss further.

Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au

[redacted]

My current work pattern is as follows:

Mon	Tues	Wed	Thurs	Fri
In office	In office	In office	In office	OOO

[redacted]

[redacted]

From: [redacted]
Sent: Wednesday, 13 July 2022 10:59 AM
To: s 36 [redacted]@pittsh.com.au>; [redacted]
[redacted]@stategrowth.tas.gov.au>
Cc: s 36 [redacted]@pittsh.com.au>; [redacted]
[redacted]@stategrowth.tas.gov.au>
Subject: FW: Progress report and Orchid Management Plans

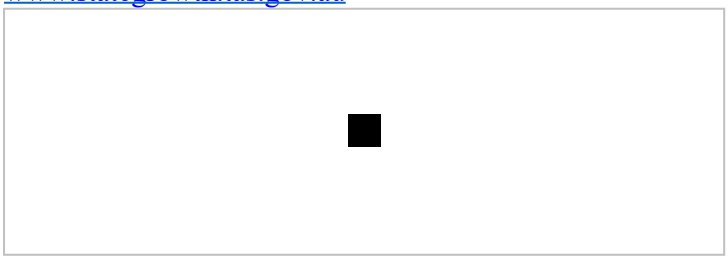
Good morning.

Please find attached from s 36 [redacted], her current OMP and an example of what she has been told is a good one from South Aus. Who currently is going to perform the deliverables in the OMP, was it a specialised DSG contractor?

Released under RTI

I did ask for her notes on the current P&S OMP although they were not supplied, I'm not sure if they took notes.
Sorry for the delay getting these over to you.
Happy to discuss further.
Thanks,

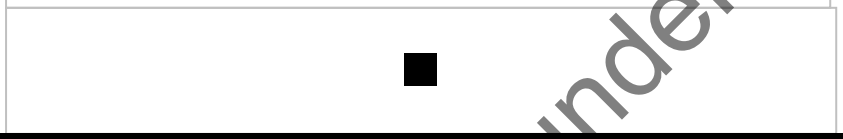
[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au



My current work pattern is as follows:

Mon	Tues	Wed	Thurs	Fri
In office	In office	In office	In office	OOO





under RTI

Out of scope

[redacted]

Offsets Assessment Guide

For use in determining offsets under the *Environment Protection and Biodiversity Conservation Act 1999*
2 October 2012

This guide relies on Macros being enabled in your browser.

Attachment 1

Matter of National Environmental Significance	
Name	
EPBC Act status	Critically Endangered
Annual probability of extinction Based on IUCN category definitions	**6.8%**

Key to Cell Colours
User input required
Drop-down list
Calculated output
Not applicable to attribute

Impact calculator

Protected matter attributes	Attribute relevant to case?	Description	Quantum of impact		Units	Information source
Ecological communities						
Area of community	No		**Area**			
			Quality			
			Total quantum of impact	0.00		
Threatened species habitat						
Area of habitat	Yes		**Area**	0.3	Hectares	Based on both direct/indirect impacts from orchid habitat management paln
			Quality	**7**	Scale 0-10	
			Total quantum of impact	0.21	Adjusted hectares	
Protected matter attributes	**Attribute relevant to case?**	**Description**	**Quantum of impact**		**Units**	**Information source**
Number of features e.g. Nest hollows, habitat trees	No					
Condition of habitat Change in habitat condition, but no change in extent	Yes				% Benchmark	
Threatened species						
Birth rate e.g. Change in nest success	No					
Mortality rate e.g Change in number of road kills per year	No					
Number of individuals e.g. Individual plants/animals	No					

Offset calculator

Protected matter attributes	Attribute relevant to case?	Total quantum of impact	Units	Proposed offset	Time horizon (years)		Start area and quality		Future area and quality without offset		Future area and quality with offset		Raw gain	Confidence in result (%)	Adjusted gain	Net present value (adjusted hectares)	% of impact offset	Minimum (90%) direct offset requirement met?	Cost ($ total)	Information source
Ecological Communities																				
Area of community	No				**Risk-related time horizon (max. 20 years)**		**Start area (hectares)**		**Risk of loss (%) without offset**		**Risk of loss (%) with offset**									
									Future area without offset (adjusted hectares)	0.0	**Future area with offset (adjusted hectares)**	0.0								
					Time until ecological benefit		**Start quality (scale of 0-10)**		**Future quality without offset (scale of 0-10)**		**Future quality with offset (scale of 0-10)**									
Threatened species habitat																				
Area of habitat	Yes	0.21	Adjusted hectares	Improvement to existing habitat?	**Time over which loss is averted (max. 20 years)**	20	**Start area (hectares)**	2	**Risk of loss (%) without offset**	10%	**Risk of loss (%) with offset**	1%	0.18	80%	0.14	0.04	0.24	113.42%	Yes	Assumed decline in future quality without active intervention - existing weed issues in habitat may warrant this
									Future area without offset (adjusted hectares)	1.8	**Future area with offset (adjusted hectares)**	2.0								
					Time until ecological benefit	5	**Start quality (scale of 0-10)**	**7**	**Future quality without offset (scale of 0-10)**	**6**	**Future quality with offset (scale of 0-10)**	**8**	2.00	80%	1.60	1.15				
Protected matter attributes	**Attribute relevant to case?**	**Total quantum of impact**	**Units**	**Proposed offset**	**Time horizon (years)**		**Start value**		**Future value without offset**		**Future value with offset**		**Raw gain**	**Confidence in result (%)**	**Adjusted gain**	**Net present value**	**% of impact offset**	**Minimum (90%) direct offset requirement met?**	**Cost ($ total)**	**Information source**
Number of features e.g. Nest hollows, habitat trees	No																			
Condition of habitat Change in habitat condition, but no change in extent	Yes		% Benchmark										0		0.00	0.00	#DIV/0!	#DIV/0!		
Threatened species																				
Birth rate e.g. Change in nest success	No																			
Mortality rate e.g Change in number of road kills per year	No																			
Number of individuals e.g. Individual plants/animals	No																			

Summary

Protected matter attributes	Quantum of impact	Net present value of offset	% of impact offset	Direct offset adequate?	Cost ($)		
					Direct offset ($)	Other compensatory measures ($)	Total ($)
Birth rate	0				$0.00		$0.00
Mortality rate	0				$0.00		$0.00
Number of individuals	0				$0.00		$0.00
Number of features	0				$0.00		$0.00
Condition of habitat	0	0.00	#DIV/0!	**#DIV/0!**	$0.00	#DIV/0!	#DIV/0!
Area of habitat	0.21	0.24	113.42%	**Yes**	$0.00	N/A	$0.00
Area of community	0				$0.00		$0.00
					$0.00	**#DIV/0!**	**#DIV/0!**

Released under RTI

From: s 36
To: [redacted]
Cc: [redacted]
Subject: Re: Tasman Highway Upgrade Hobart Airport to Sorell Causeway (EPBC 2020/8805) [SEC=OFFICIAL]
Date: Monday, 18 July 2022 4:18:19 PM
Attachments: image001.png
image002.png
image003.jpg
image002.png
image003.jpg
image001.png

Hi [redacted]
s 39 [redacted] I don't thinks that we need further assessment as the impact on the orchids doesn't change. Either way there is a fair bit of work to amend reports, diagrams and images to remove the golf course works from the referral.

Regards

s 36

Sent from my iPhone

On 18 Jul 2022, at 15:40, [redacted]@stategrowth.tas.gov.au> wrote:

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Hi s 36
So sounds like we need to investigate if the works we want to remove from the referral area have any impact at all on the orchids, particularly hydrology or sediment runoff. I suspect that if they do, then we cannot modify the referral area. Could you please investigate this issue further and maybe we could meet to discuss.
Thank you
[redacted]
Programming and Delivery Branch
State Roads ¦ Department of State Growth
4 Salamanca Place, Hobart TAS 7000 ¦ GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted] | [redacted]@stategrowth.tas.gov.au
Web: www.stategrowth.tas.gov.au

[redacted]

image003.jpg

[redacted]

	Mon	Tues	Wed	Thurs	Fri
Normal week	WFH	In office	In office	In office	WFH

Out of scope [redacted]

Released under RTI

Document 81

From: [redacted]
To: [redacted]
Subject: FW: Department comments: Tasman Highway Upgrade Hobart Airport to Sorell Causeway (EPBC 2020/8805) [SEC=OFFICIAL]
Date: Wednesday, 13 July 2022 4:34:40 PM
Attachments: Out of scope

Hi [redacted]

Out of scope . I expect that as matters stand s 36 will only allow access to Milford when she is satisfied that the Orchid Management Plan achieves her objectives. s 39 [redacted]. Given that the impact on the identified core habitat is 0.4% (about 800 m^2) and the current Orchid Management Plan proposes a management regime over approximately 2.8 Ha (28,000 m^2) of core habitat it does seem that the future benefits far outweigh the loss.

Regards

s 36 [redacted]

Principal Engineer

s 36 [redacted]

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36 [redacted]

pittsh.com.au

Out of scope [redacted]

From: s 36
To: [redacted]
Subject: FW: Meeting Minutes - 29 June 2022
Date: Tuesday, 12 July 2022 5:10:25 PM
Attachments: image004.png
image005.png
image006.png
image007.jpg
image001.png
image002.png
210310 Meeting Notes with s 26 February 2021 DC edit edited s.docx

Hi [redacted]
Following discussion with [redacted] this morning I have provided some further information and advice below. Please review all of this very carefully to ensure we are all working towards the same objectives and conclusions with respect to Milford.
The critical information to be provided by the Department to enable us to progress matters further is detailed in the advice and summarised immediately below.

i. Instruction to proceed on the design of the new Milford access (this will be a change order)
ii. Provide (from s) her current Orchid Management Plan, the sample plan from South Australia, s 36 comments on the Orchid Management Plan prepared by Pitt & Sherry and the map showing the different areas of Milford in particular areas 7 & 8.

Regards

[redacted]

s 36

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36

pittsh.com.au

From: s 36
Sent: Friday, 1 July 2022 9:59 AM
To: [redacted]@stategrowth.tas.gov.au>
Subject: RE: Meeting Minutes - 29 June 2022
Hi [redacted]
I have listed a few corrections below in red. Some of these will need to be corrected with s
Regards

s 36

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36

pittsh.com.au

From: [redacted]@stategrowth.tas.gov.au>
Sent: Thursday, 30 June 2022 7:28 PM
To: s 36 [redacted]@pittsh.com.au>
Cc: [redacted]@stategrowth.tas.gov.au>
Subject: Fwd: Meeting Minutes - 29 June 2022

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi s
Would you mind looking at the actions with the department as provide assistance. We did discuss a number of these this morning and you have commenced investigations/follow ups already, thank you.
Thanks,
[redacted]
Get Outlook for Android

From: [redacted]
Sent: Thursday, June 30, 2022 5:37:12 PM
To: [redacted]@honde.com>; [redacted]@stategrowth.tas.gov.au>; s 36 [redacted]
Cc: [redacted]@stategrowth.tas.gov.au>; [redacted]@stategrowth.tas.gov.au>
Subject: Meeting Minutes - 29 June 2022
Good afternoon all.
Thank you again for your time yesterday and the opportunity to sight the various items for discussion on and around the Milford property. I have developed the below minutes from our conversations yesterday, please review, amend if required/accept. In **bold** are actions and *italics* are post meeting updates.
Attendees:

Key	Name	Position
s [redacted]	s 36 [redacted]	Milford Property Owner
EG	s 36 [redacted]	Assisting s [redacted]
GC	s 36 [redacted]	President of Threatened Plants Tasmania
DM	[redacted]	General Manager, State Roads
KP	[redacted]	DSG Project Manager

Apologies: Nil
Items discussed:

1. Due to land acquisition the current fire trail along the northern boundary of the Milford property will be impacted. KP presented plans 1208-1214, attached, showing the existing TW easement on the Milford property (purple), the new right of way (red) and TW access track in the state road reserve (yellow). The new right of way is intended to link the existing fire trail/easements cut by the property acquisition. It was noted that the fire trail requires passing opportunities given the length which is well understood by the design consultant. s [redacted] has request this to be surveyed. I assume s [redacted] wants it pegged out on site? The need for passing bays is not at all understood by the design consultant (or the Department, [redacted] discuss with [redacted]). These will require extra width, more clearing and potentially impacting on orchid habitat. We are simply replacing an existing fire trail and we always maintained that passing bays were not a requirement under the planning scheme. The track on Milford and the parallel track on the road reserve provide suitable functionality in a fire event. This matter was further raised by s [redacted] at the Planning Tribunal hearing but there was nothing that could be enforced and the resultant "condition" in the approved permit is copied below

> g. Council encourages consultation between the owner of 'Milford' and the Department of State Growth in relation to the provision of fire protection compliant access for Tasmanian Fire Service (TFS) into the "Milford" forest.

   a. **KP to investigate possibility of bound fence being on the northern side of the yellow TW track**. This would leave us with insufficient width in the road reserve for maintenance of the batters and culvert outlets. Also a lot of debris would collect between the wire rope safety fence and the boundary fence with no access to clean it

Released under RTI

out.

2. [redacted] advised access to the TasWater (TW) water main, the meter should be on Milford and not public land. The current drawings created uncertainty as to TW meter location.
   a. **KP to confirm is electric meters can be installed.** **We have now clarified with Taswater. Smart meters will be installed that can be read from the adjacent roadside without the need to access the Milford property.**
      We will seek approval from Taswater to provide a hydrant near WM 115 and WM 116 (Drawing 1208) near the Pittwater Road junction. This would be located on the road reserve. There is no guarantee that Taswater will approve a hydrant in this location. If [redacted] wished the hydrant to be located further east it would be on the section of main that is located on Milford and not being impacted by the road works. This would require a special application by the property owner setting out the reasons why a hydrant is required and would by no means be a straightforward (or guaranteed) approval.
   b. *Post meeting note: KP can confirm the current design will have the TW meter on the current 'right of way' within the Milford boundary. KP has requested the TW meter is moved to the 'Pines' although a favourable outcome this is unlikely the water pipe could be tapped anywhere along the 1.2km of pipe, this would go against TW policy.* **KP to advise outcome**.
3. Rubbish and water coming into the property from Pittwater road. KP confirmed the department has previously passed these concerns to Clarence City Council. Pittwater road is not a state owned road.
4. Fire access gate needs to be a frangible gate. KP advise the project is looking to relocate the fire access gate to the corner of the property to minimise impact to potential orchid habitat, further engineering require to confirm feasibility. Current working drawing attached 'Milford access of Pittwater Road'
   a. *Post meeting note: KP can confirm a frangible gate is designed.*
   b. **KP to follow up engineer as to feasibility of revised gate location**. **We are revising the gate location and modifying the access to accommodate the new gate position and suit a new switch station that is necessary as a result of extending the underground power further to the east.**
5. Alternate access via lower paddock line. This was not in the approved DA, the driveway would require a separate DA. DSG to discuss further internally.
   a. Note: existing Pittwater road access was discounted early due to impact on known Orchid locations. Other alternate locations were discounted due to line of site issues, current leases the landowner has on the property and a dam location.
   b. Passing opportunity for emergency vehicles to be confirmed by designers, [redacted] advice was passing opportunities are required.
   c. Landscaping has been requested along the alternate access. KP advised DSG's typically provides like for like access and in this case this would be access to the property (driveway in the road reserve and a gate). DSG will continue to work towards a solution.
   d. [redacted] **to send through independent valuer's advice that not constructing the alternate driveway would reduce the value of the title**.
      The Planning appeal decision endorsed the Department's view that it was not necessary to build the alternative access, this does not, however preclude the Department from building it. The approved permit then went on to provide the following advice.

      g. Council encourages consultation between the owner of 'Milford' and the Department of State Growth in relation to the provision of fire protection compliant access for Tasmanian Fire Service (TFS) into the "Milford" forest.

      The EPBC assessors have already advised that if the alternative access is not provided then an EPBC approval is highly unlikely. My understanding is that [redacted] want's the alternative access as designed by [redacted].
      PLEASE PROVIDE THE DEPARMENT'S INSTRUCTIONS ON WHAT IS REQUIRED FOR THE MILFORD ACCESS. Upon receipt of the advice we will prepare engineering drawings of the access based on the [redacted] concept. We will obtain a planting schedule from [redacted] and cost this out for consideration by the Department. My initial assessment is that the landscaping as proposed by [redacted] can be planted for the initially proposed [redacted] amount, however future maintenance of that planting to enable plants to reach an established status will add to the [redacted]
6. Animal underpass.
   a. *Post meeting note: KP can confirm animal underpasses were never in the design drawings although KP has asked if underpasses can be incorporated into the design. This has been discussed with [redacted] multiple times. I can dig out previous correspondence sent to [redacted] Consultancy North Barker do not believe that underpasses would be effective, if an underpass was installed on the existing alignment it would need to be below existing surface levels at inlet and outlet and accordingly fill with water and debris.* [redacted]
      Refer attached minutes of a meeting held on 26 February – item 8 where the Department's position as explained to [redacted]. Raising the road to accommodate a suitable fauna crossing that could be adequately drained is simply not an option.
      Depending on location the underpass may need to be over 50 metres long. This is why a small culvert that could not be daylighted (or drained) is impractical.
      The road would need to be lifted about 1 metre to accommodate a small box culvert.
      [redacted]
      A new DA would be required.
      A redesign would be required with flow on effects to drainage and services. Both Tasnetworks and Taswater would need to be redesigned.
      Redesign fees are anticipated to be of the order of [redacted]. Additional construction costs are anticipated to be of the order of [redacted]. Both these cost figures are high level estimates and would need to be verified.
7. Compensationary planting area (CPA) requires a management plan and legal means for access. DSG are bound to manage the CPA for 10 years.
   a. *Post meeting note: KP has been requested a management plan, highlighting actions and responsibilities for 10 years, from the consultant. A legal access agreement has also been requested although please note this will take a significant amount of time, this is typical for matters of this nature.*
8. Tasnetworks (TN) easement deed. KP confirm that the easement deed only applies to the first 'span' of over head power lines as only this section will change. The other power lines will on the property will be managed as per the current agreement. The deed, cover letter and TN drawings (I have delete pages not relevant to Milford as requested) are attached.
   a. [redacted] **to return executed TN forms to KP**.
   b. *Post meeting note: for the purpose of 'no surprises' I have noticed there will be a small TN switch station in the road reserve on the corner of Pittwater road (see page 1 of Milford TN drawings). This is not on nor does it impact the Milford property.*
   c. **KP to confirm with designer the location of the switch does not impact fire/emergency truck access to Milford**.
9. TW feed for golf club.
   a. *Post meeting note: KP can confirm at this stage no excavation should occur on the Milford property although access to values on Milford will be required. I want to confirm excavation 'should not occur' on Milford. Given the nature of construction this may change, if it does we will consult you prior to any construction works occurring on the property and ensure all activities are undertaken within EPBC requirements.*
   b. **KP to investigate the likelihood of a fire supply installed at this location**.
10. NVA. GC said he had 998 known orchid locations on his GPS.
    a. **KP to confirm consultant has consulted with NRE's threatened species section for known locations**. **We are very confident that [redacted] has got this right but will seek verification**
11. Orchid management plan (OMP). KP requested [redacted]/GC's feedback on their thoughts on offset location, suggestion of area 7 and 8 were put forward. Total offset area TBC once location known, current land 'score' and land 'score' post OMP actions.
    a. [redacted] advised have spend hours reviewing the first two pages of the OMP and believe to OMP is unsatisfactory, did not read the remaining OMP. KP noted the request for NRE's comments on the current OMP revision is no longer required as the OMP will need to be re-written.

i. [redacted] **to send through these notes KP.**
ii. [redacted] **to send KP her current OMP and an example of a 'good one' from South Australia.**
iii. [redacted] **to confirm if Milford would prefer to undertake the actions within the OMP or a DSG contractor.**

   Please forward [redacted] comments, associated sample Orchid Management Plans, map containing Areas 7 & 8. we also need her current Orchid Management Plan

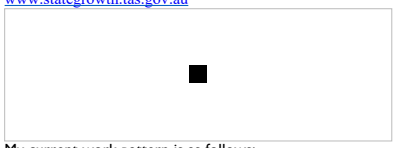
   b. Note: the OMP must align with EPBC requirements.
12. Issue raised regarding run-off from culvert at corner of Pittwater Road and Tasman Highway.
    1. *Post meeting note: KP has review additional reports which stipulate that additional water from the culvert run-off will be absorbed by the existing sandy soil and not impact to orchid habitat.*
    2. **KP to review further to ensure all risks are mitigated.** **Covered extensively in the reports submitted with the EPBC referral**
12. Claiming legal costs representation is standard practice by the Office of the Crown Solicitor and this is not a precedence.
    1. **DM to confirm have far the process has progressed**.

As discussed at the meeting, I will be your point of contact for the project moving forward. I am committed to partnering with you to deliver outcomes that will satisfy both parties

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through good, clear communication. My contract details are below. I don't work on Fridays although am available on the phone if there is a pressing issue.
Thanks again and I look forward to working with you all.
Thanks,

[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] s 36
www.stategrowth.tas.gov.au



My current work pattern is as follows:

Mon	Tues	Wed	Thurs	Fri
In office	In office	In office	In office	OOO





Out of scope

[redacted]

Attachment 1

Meeting Notes – Airport roundabout to western causeway, 26 February 2021 edited 210310

s 36 [redacted]

[redacted]

[redacted] has requested VGO recruit s 36 [redacted] to assist her interpret the plans and provide general advice about her concerns. He was unable to attend today's meeting but [redacted] expects advice to follow. s 36 [redacted] is concerned about the huge amount of time she's put to the acquisition, its increasing complexity and ongoing nature.

Letter sent to [redacted] in December explaining accommodation works etc. The timeframe around 28 days is flexible.

1. **Main access,** - Regrading inside the property line to approximately 8m from the existing gate. Short left hand pull off bay still maintained. Relocate the grid, raise it and replace the fences. The access will be wider so we'll need to provide a new cattle grid which will be wider. This is to accommodate a B-double. We'll reinstate the gates including the 2 on either side (outside [redacted] main gate) and replace the railing fences.

   [redacted] requesting copies of these changes. [redacted] provided hard copies of the fencing plans done to date. [redacted] need to apply for an extension to VGO as the valuer cannot do his work until he has all this (and other) information.

   Valuer requires the latest set of drawings to finalise his work. [redacted] *to provide updated set.*

   to send through sketched up details of the replacement fence which will represent replacing what she has there. (provided in hard copy)

   There will be a layby on the Midway Point side of the entrance.

   The **relocated gate** (to replace the highway one near the junction) will be located approximately 80 m from the highway junction down Pittwater Rd. This will be part of the road reserve, so it won't be fenced. Also needs to be kept clear so Taswater can get to the sections of watermain that will be on the road reserve, and to maintain the new culverrt. [redacted] will like it fenced because it is a known rubbish dumping spot, plus trading in stolen goods. Known location. Council won't like the responsibility of cleaning it up.

   Existing Pittwater Rd junction will be very different, and it will be lit and have multiple lanes of traffic in that location. There are 8 street lights at the intersection. May act as a deterrent.

2. **New access to Milford off Pittwater Rd:** [redacted] valuer has said the proposed new driveway from Pittwater Road via The Pines Landscaping is unacceptable in its current location, resulting in an impairment to the property. His view is the access via the Pines' driveway is not an acceptable alternative. He is concerned about the access being through a light industrial area, and that will be unappealing visually and unsuitable for the use of the farm, and not congruent with the heritage and cultural values of Milford.

   [redacted] has suggested 2 possible new alignments for the road through to the Pittwater Rd. For one access to the north, which could be more visually appealing, would need to consider the safety of the new access point on Pittwater Rd as it intersects on a corner and sight distance is limited. The other to the south is longer but can be done without significant

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vegetation removal. [redacted] *to meet* [redacted] *at 4.30 on Tuesday 2 March to inspect both*. Meeting at the Pines Gate and can walk from there.

At the Pines: Access on hold to be resolved.

This all needs to be surveyed etc and areas calculated so valuer can do his work.

3. Item 9- **reinstatement of the TasWater easement/firebreak access track** –[redacted] has already done some of that work (Slashing and clearing) but by the time works commence it will likely need clearing again.

4. **Fencing** –[redacted] has provided [redacted] with a copy of the rabbit proof fence –[redacted] is content with this. Second sheet is the railing fence, reinstating what is there at the access. Third one is the compensatory planting fence, which is the same fence shown at the CSIRO block – bit different but matched what is there. About 1ha in terms of area. [redacted] *to check these*

5. **Vegetation offset** – Valuer wants a map of the compensatory area. [redacted] *to provide a map of this area.*

[redacted] wants details on how this is to be managed and by whom. CL said State Growth will be looking at a covenant.

[redacted] from Wildseed has provided information – when does that become an agreement? The Department would like a covenant or some sort of protection over that land. [redacted] has requested that information be provided to her in writing to provide to her valuer. He needs to have his work completed by early April. Will need an extension to the timeframe for that. from Wildseed is looking at planting from April 2022 as he has seed being propagated at the moment.

Explained that the site would need to be covenanted through a Part 5 agreement or similar and what that means. [redacted] asked whether it had to be covenanted and whether that was a compensatory item. Was discussed that if it is covenanted then it is protected into perpetuity, but it is a restriction on the property. [redacted] *wants further information on this.*

Compensatory planting, we'll get more information on that.

6. **Watermain relocation** – approximately 100 metres of the watermain on the eastern side of the Pitt Water Road junction is to be relocated. It is currently on [redacted] property but with the new boundary moving approximately 20 metres to the south, the pipe also has to be relocated to the south, but will be in the new road reserve. Further to the east the pipe is not being relocated and will remain in [redacted] property except for a 100 metre section on the approach to the main Milford access from the highway.

[redacted] – what about the water pipe and easement to The Pines? This needs sorting out too.

7. **Drainage** – A series of new pipes have been installed under the highway – they're bigger ind diameter than the existing pipes to cater for a 1:100yr storm event – in the past most likely the water will have gone over the top of the highway.. Water will still run off from the highway onto [redacted] property. Trying to reinstate to match existing conditions as closely as possible, noting that there are not defined water courses on this section of Milford. DC said

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they're not currently planning drains; [cope] questioned this especially regarding runoff into Milford Forest.

Opposite Milford at the golf course maintenance area– [redacted] questioned how much of that land DSG are taking – [redacted] explained that we're taking about 20m width in some locations. Curve in that location will be approximately the same radius with improved supereleavation , 4 lanes and opposing lanes separated by safety barrier as on the Midland Highway.

8. [redacted] has questioned about **underpasses for wildlife**, noting there are underpasses on [redacted] property at Perth. [redacted] has said no, the advice we have from the North Barker is that an underpass is unlikely to be effective in this location, fencing to lead animals into an underpass may in fact trap them on the highway. [scope] disputes this, especially for Tasmanian Devils (the principal target of the underpasses). Also in this location due to flat grades a crossing under the highway would be below surrounding ground level and would fill up with water. Lifting up the highway is not an option as this would require more land. [redacted] has questioned why she hasn't seen the details of that advice, and suggested that drainage is an engineering problem for which there must be a solution. [redacted] remains upset about this and believes it is unacceptable, not only to her but to a growing % of the community, and for tourists. It is also a PR opportunity for the government if done right.

[redacted] wants to know whether there is anywhere along the length that a crossing can be included. [redacted] doesn't think there is anywhere it can be included and said "we cant take more land off Milford at the corner". [cope] stated that it's therefore basically a tradeoff between animals and money.

[redacted] opinion (based on inclusion of underpasses being implemented internationally and also elsewhere in Australia, which also now includes wildlife overpasses) is that it is evolving thinking and Tasmania will look like a backward cousin again if we do not make an effort, especially on this highway so close to Hobart International Airport, plus it will be detrimental to our Brand Tasmania image and also to tourism marketing etc to continue to ignore the needs of animals. Plus there is a human safety factor. Would be worse having to do it retrospectively.

Not so much a question of money, issue is around footprint of the corridor and how to make it work on site. [redacted] position is that the Golf Club (President) agreed on wildlife underpass(es) as well although CL and DC haven't heard that message. We confirmed we would advise the Department of [redacted] position. [redacted] *will go back to the Department and see if they will consider it again.*

9. EPBC controlled action:

Timing – Controlled action under the EPBC act. [redacted] wants to know what that means. Pitt & Sherry submitted a referral under the EPBC primarily because of the impact on white gums. North Barkers assessment was that, notwithstanding loss of some buffer for the orchids, the impact was minimal. ([cope] note: this was based on earlier surveys, before the regrowth near the highway was cleared, exposing more orchid habitat to sunlight which resulted in more orchids appearing in 2020). The "controlled action" means that the assessors who visited the site have determined that "the works are likely to have a significant impact on a listed threatened species" (the orchids) and the information has to be re-presented with avoidance and mitigation measures as well as the social and economic impacts of the proposal. North Barker and others will be working on the revised submission

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to address the requirements of the "Controlled action". Probably have 6 weeks of additional work at this time.

One question is around mitigation options. Impacts upon the habitat of the orchids which we imagine is the concern that the EPBC are at.

[redacted] concerned she hasn't been spoken to about mitigation but doesn't have time to discuss it now. She currently burns the site from time to time, will she still be able to do that into the future. Will it be allowed adjacent to a highway? [redacted] advised that this would be subject to TFS approval and issue of a permit. The highway authority does not jurisdiction over actions of property owners on private property.

[redacted] asked how will the weeds be managed and if there is an impact upon [redacted] property through increased weeds, how will that be managed onto her property. Will they be using round up, will that flow onto Milford, how will that impact the orchids on the site. [redacted] advised that specific more sensitive weed management practices can be implemented.

If the buffer is lost then mitigation needs to be considered. Taking a linear strip of land may increase the ecological harm. [redacted] was asking whether [redacted] has a method that may be useful for mitigation of these impacts. [redacted] stated that planting a buffer of shrubby species along the inside of the new fenceline would help, and not cutting any more vegetation including trees and shrubs than is absolutely necessary.

We discussed weed management plans. [redacted] believes that Landcare would be the best group to manage the weeds moving forward. In her opinion it will be an ongoing issue. Highway authority responsibility for weed management and then if there are different measures on Milford and so that needs to be considered.

Landcare are the best group, but someone has to pay for it. DSG should be taking that on and getting maintenance people in in [redacted] opinion. [redacted] can require weed management plans.

has changed from burning to slashing on a trial basis but it seems to be successful.

10. Other:

Current vehicle numbers are 20,000 vehicles per day – total both directions.

Timing is that Pitt and Sherry will be about to submit the DA in the coming weeks. EPBC permits sit as a separate application.

3 months for DA approval. EPBC work could take 6-12 months although could be sooner. [redacted] wants input into this work. [redacted] was under the impression that Council won't approve it without the EPBC permits in place.

Acquisition of the land from the Commonwealth, maybe around the middle of 2021. Can't call tenders until all of those issues are resolved which would be July at best (*NB- Since advised it is more likely to be September*). It is three months from calling tenders to awarding a contract.

Will probably start the golf course work first, need a DA for the golf course which is a separate DA. So that will be staggered.

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[redacted] asked is it possible to get [redacted] access done before we start so that there will continue to be a reasonable access. Not necessarily but can consider that. It was confirmed however that access to her property must be maintained at all times in any event. DC stated that a revised access might not be in the DA, but could be put forward as an amendment.

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From: s 36
To: [redacted]
Subject: Re: Tasman Highway - Airport Interchange to Midway Point Causeway
Date: Thursday, 30 June 2022 3:48:53 PM
Attachments: image001.png
image002.png
image003.jpg
image001.png
image002.png
image003.jpg

Hi [redacted]
It's all coming back to me now. If the meter is 1200m from the main there is nothing to stop s 36 or others tapping into that connection and easily bypassing the meter. If the meter is right the main that possibility is avoided.

Regards

s 36

Sent from my iPhone

On 30 Jun 2022, at 15:39, [redacted]@stategrowth.tas.gov.au> wrote:

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Thanks s 36 .
I think if we can get it to the Pines that will be a big win for negotiations. Let us know how you go.
Happy to discuss further.
Thanks,
[redacted]
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] | s 36 [redacted]
www.stategrowth.tas.gov.au
image001.png
[redacted]
My current work pattern is as follows:

Mon	Tues	Wed	Thurs	Fri
In office	In office	In office	In office	OOO

image002.png
[redacted]
image003.jpg
[redacted]

From: s 36 [redacted]@pittsh.com.au>
Sent: Thursday, 30 June 2022 2:09 PM
To: [redacted]@stategrowth.tas.gov.au>; [redacted]
[redacted]@stategrowth.tas.gov.au>
Subject: Fwd: Tasman Highway - Airport Interchange to Midway Point Causeway
Hi again - the perils of email communication. The meter is currently at corner of PittwaterRd. / Tasman Highway. I have instructed s 36 to ask Taswater if it can go at the Pines.
Regards
s 36

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Document 84

From: s 36
To: [redacted]
Cc: s 36 ; [redacted]
Subject: RE: Milford meting: Documents provided
Date: Tuesday, 28 June 2022 2:58:42 PM
Attachments: image001.png
image002.jpg
image003.png
image004.jpg
image005.png

Hi [redacted]
Further to our discussion this morning I have set up a folder in Content Manager – D22/164432 called "Milford 29062022 Meeting" with the following information in it and provide further comment below.

Milford access off Pittwater Road.pdf	Revised access
CS19-7902 Easement Deed - 1431 Tasman Highway CAMBRIDGE.137587 1 ...	Tasnetworks – easement conditions
CS19-7902 Easement Deed - Cover Letter1431 Tasman Highway CAMBRIDG...	Tasnetworks – easement cover letter
HB19197-1000-1999 19042022.pdf	Latest design drawings – full set.
N004264 Tasman Hway AP AS_30244 REV A Combined.pdf	Tasnetworks drawings
Planning Permit and Approved Plans - Tasman Hwy, Pittwater Rd & various ...	Planning permit and approved drawings - 1900 series

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Milford Access off Pittwater Road

The revised access drawing moves the proposed access at ch 120 on Pittwater Road closer to the Tasman Highway so that vehicles do not have to drive along the existing access track adjacent to areas where orchids have been identified. Instead vehicles will use the watermain access track (yellow track) to get to the proposed new Milford gate opposite ch 15 on Pittwater Road. s 36 will no doubt question how vehicles that want to travel south on Milford are catered for. The answer is that we are responding to the EPBC assessors' requirement that this part of her track not be used. Technically it shouldn't be used now. We are limiting its use by Taswater to access the easement on her property, and by any firefighting activities. s 36 as custodian of the orchids can probably use this part of the track in a careful and considered manner.

Alternatively we can leave this access where it is on the highway at ch 1835 (drawing 1109). This is not ideal but it is infrequently used and we moved it to Pittwater Road at s 36 request.

For your information (if s 36 brings it up) turning from Pittwater Road onto the Milford access and the watermain access track is problematic for anything other than light vehicles. A heavy rigid vehicle most likely won't make the turn in a single movement. The constraints introduced by the orchids prohibit us from making bigger radius turns. Use of this access by heavy vehicles is quite infrequent and the need to stop and make multi point turns is quite common in restricted areas (eg narrow urban and rural streets)

Tasnetworks

The Tasnetworks easement cover letter, easement deed, and drawings (N004264) are relatively self explanatory. There is an existing "deemed easement" beneath the power connection into Milford. The easement at 12 metres width extends approximately 26 metres into Milford from the new boundary to the

first power pole on the property and gives Tasnetworks the right to enter Milford to maintain the power lines and clear beneath them. Compensation, if applicable, would be determined by the Valuer General.

Offset area

We are impacting approximately 800 m2 of critical habitat and in total 2100 m2 of critical and secondary habitat. (Critical habitat = recorded locations plus areas that have the ecological attributes to support orchids. Secondary habitat = woodland which may be restored to suitable habitat in the future). We input an area of 2100 m2 into the EPBC offset assessment methodology and the result was that an offset area of 2400 m2 would be required. Defining exactly where this 2400 m2 should be declared is quite speculative and the most sensible offset area would seem to be the area covered by the Orchid Management Plan. This is 50 metres from the new boundary and covers an area of approx. 28,000 m2 – 2.8 Ha. This is a key point to negotiate with s 36 but if we are all serious about this, 2.8 Ha is the right answer in terms of an area to be subject to a covenant. This area would have to be the subject of compensation (likely to be less than s 38

Water meter for the Pines

s 36 has raised this before, wanting the meter at ch 1890 moved to the Pines lease boundary approximately 850 metres down Pittwater Road. This does not meet Taswater's policy for location of meters.

Offset Planting area

No change to the original proposal from s 36 from Wildseed for extending the maintenance from 5 years to 10 years. s 38

Let me know if you have any further questions. I will be available by mobile this afternoon, but not at my computer.

Regards

s 36

Principal Engineer

s 36

Hobart Office — Level 1, Surrey House, 199 Macquarie Street
PO Box 94 Hobart Tasmania 7001 | Phone s 36

pittsh.com.au

Out of scope

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Email Signature - accredited workplaces low res
[redacted]

	Mon	Tues	Wed	Thurs	Fri
Normal week	WFH	In office	In office	In office	WFH

From: [redacted]@stategrowth.tas.gov.au>
Sent: Monday, 27 June 2022 9:01 PM
To: [redacted]stategrowth.tas.gov.au>; s 36 [redacted]@pittsh.com.au>
Subject: FW: Documents provided
Importance: High

Hi [redacted] and [redacted].
Could you please help me understand a few items here and point me in the direction of find any supporting documentation if applicable ahead of my meeting with [redacted] and [redacted] on Wednesday.

[redacted]:

1. Could you please send the latest drawings? I can only seem to find Rev A. If there are multiple revisions, can you please send all revisions from B onwards. I don't think there is a complete new set? [redacted], P & S will issue a new "Final" set once all these minor issues are resolved. Current set is located in D21/78172
2. I can't find a 1900 series in the rev A drawings, is there a 1900 series in the Rev B and/or the latest drawings?
3. Compensation planting, do we have a 10 year plan? I've seen a 5 year plan although not a 10 year plan. Please send this through. [redacted] have we received one?
4. Could you please send through the latest TN plans if different to those in the attached. Can you what are the particular the conditions of this easement? (q.5) The revised plans are in D22/155667, its with [redacted] in workflow for signing. Check email 077942/10/7
5. Q8, is this the fire trail access close to the pittwater road intersection? If so, can you let me know where this is at? [redacted] this is with you, access off Pittwater into firetrail/water easement

[redacted]:

1. [redacted] point 2, 'There were no meeting minutes from the visit to Milford by DSG, P&S and the EPBC Team on 27 April 2022. I understand actions arose from the meeting that have been or are continuing to be actioned.' [redacted] did you take any minutes?
2. Risk assessment, thoughts on what we should share here? No it is not relevant to landholder discussions
3. Q6 – discussions with NRE on the OMP are ongoing and any changes will be captured in a new revision if required. The Department requests your feedback on the management plan We are still waiting for consolidated comments from NRE. Can you ask [redacted] for her comments that she was to seek from orchid clubs. This along with NRE comments are required to help develop a final plan

[redacted] [redacted]

1. Are the works up to Ch. 1200 that are being completed by HB part of the DA encompassing the Milford property or a different DA? D21/235964 suggests west of ch. 1200 is a different DA although [redacted] mentioned west of 1200 was including in the planning appeal. Can you please clarify? All works east of 1200 are part of the approved DA, the Eastern Tie in works that are now part of the Hazell Bros Hobart Airport works were originally going to be part of this project, but due to delays we removed this area from the Milford DA and included it in the Hobart Airport Interchange works. A separate DA for this area was not required as it is within 3m of the Highway. s 39 [redacted] it is not relevant to any discussion with regard to the Milford property.
2. Q7. The drainage mgmt. plan, was this attached to the DA (it was to the EPBC)? Or were these, including con. Mgmt. plan actions arising from the DA? These are not her issues although it would be good to understand the background here. Drainage (stormwater design – EPBC Appendix J) has been addressed in the EPBC referral and in the drawings. We have previously advised [redacted] that a CEMP will be developed by the contractor, including erosion, sedimentation, stormwater management, weed management etc.

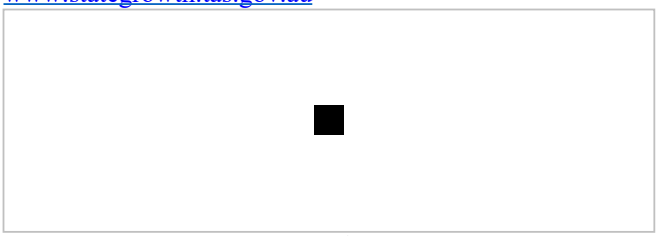
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Happy to discuss further.

Thanks,

[redacted]

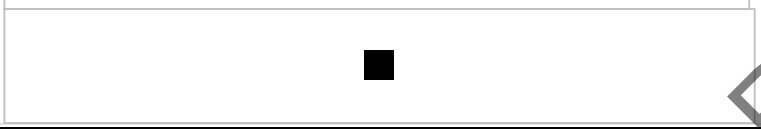
Programming and Delivery | Department of State Growth
4 Salamanca Place, Hobart TAS 7000 | GPO Box 536, Hobart TAS 7001
[redacted] |
www.stategrowth.tas.gov.au



My current work pattern is as follows:

Mon	Tues	Wed	Thurs	Fri
In office	In office	In office	In office	OOO





RTI

Out of scope

[redacted]

Document 85

From:
To: [redacted]
Subject: EPBC Approval
Date: Monday, 20 June 2022 4:21:27 PM
Attachments: image001.png
EPBC timeframe 20 June 2022.docx

Hi [redacted]
I have revised the indicative timeframe (attached) for the EPBC and unfortunately it's out to next February.
I have allowed 2 months to obtain the written agreement from s 36 for the Orchid Management Plan and the covenant, following your meeting [redacted] which I understand is on 29 June. You may be able to obtain agreement sooner and obviously it is in our best interests to reach a timely agreement, s39 [redacted]
DAWE have advised that a 4 week advertising period will apply.
We can expect further comments from s 36 and others on the referral – in the unlikely event that we get no comments then 6 weeks could be saved.
The Minister's decision must be made within 40 working days of receiving the final documentation. On the projected timeframe this carries over Christmas/New Year so I have added 2 weeks.
The above is by no means the worst case. In a best case if s 36 gave the written approval within 3 weeks from 29 June and there were no comments on the advertised documentation and the approval didn't extend over the Christmas period we could save 12 weeks (4 weeks in completing preliminary documentation, 6 weeks in comments, 2 weeks extended approval). This would give us approval by 23 November 2022. This should be our aim but it depends on s 36
Regards

[redacted]

s 36

Principal Engineer

s 36

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Attachment 1

Activity	Estimated time	Target completion date
Complete preliminary documentation	(i) onsite meeting with [scope] 29 June 2022 (ii) obtain agreements from [scope] for OMP and covenants	31 August 2022
DAWE approve preliminary documentation and direct to publish	3 weeks	21 September 2022
Publish	1 week	28 September 2022
Advertising period	4 weeks	26 October 2022
Deal with comments	4 weeks	23 November 2022
Amend Documentation and advertise	2 weeks	7 December 2022
DAWE makes recommendation to Minister and Minister's decision	8 weeks	15 February 2023

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