

OUR WATER STORY, IS YOUR WATER STORY

OCG ref: AP2022/006

23 October 2023

David Stolz

Assistant Coordinator-General – Planning and Services
PO Box 15517, 1 William Street
Brisbane, Queensland 4000

Dear David

Response to Information Request: SDA Application for a MCU for a utility installation (water pipeline) and operational works (vegetation clearing) in the GSDA

GAWB refers to the State Development Area (SDA) application for a Material Change of Use (MCU) for a utility installation (water pipeline) and operational works (vegetation clearing) in the Gladstone State Development Area (GSDA). This application was formally lodged for the installation of the proposed Fitzroy to Gladstone Pipeline (FGP), with the Office of Coordinator-General (OCG) on 27 June 2023. We acknowledge receipt of the information request sent by OCG dated 23 August 2023 and have provided the following responses based on the queries from the information request.

1. Response to information request

1.1 Request 1: Air Value Assembly

Discussions between the proponent and Gladstone Ports Corporation (GPC) have been ongoing in the interest of reducing the impact of air valves along the transport corridor. The design of scour and air valves also potentially compromises the ability for inspection and maintenance vehicles to traverse without restraints along the corridor.

The proponent is requested to amend development plans and provide further detail regarding the air valve assembly (revised amount and design) with a view of reducing impacts along the transport corridor, with the aim of allowing motor vehicles along the infrastructure corridor (e.g., inspection vehicles and construction vehicles).

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1.2 Response

Review and rationalisation of the number and footprint of isolation, air and scour valves has occurred as part of both the Safety in Design / Hazard and Operability Analysis (SiD / HAZOP) and construction review processes.

Air valves (AVs) on water pipelines are required to:

- Assist with expelling air from the pipeline during filling operations
- Assist with allowing air into the pipeline during emptying operations
- Allow the expulsion of dissolved air from the water during normal operation.

The FGP now has a total of 226 AVs at a maximum spacing of 1,000 m and an average spacing of approximately 550 m. This total number has been reduced from the approximately 240 noted in the Planning Report for Material Change of Use for the Pipeline within the GSDA (Planning Report, GHD, 2023). Of these 226, 40 are within the GSDA, as shown on the issued for construction (IFC) design drawings broken down by landholder interest as follows:

- GPC land – 15
- Coordinator-General (CG) land – 14
- Minister for Economic Development Queensland (MEDQ) land – 5
- Roads – 2 Department of Transport and Main Roads (TMR) and 4 Gladstone Regional Council (GRC).

The 40 AVs remains unchanged from the Planning Report (GHD, 2023) and was not able to be further reduced due to undulating nature of the topography and the intrinsic AV functionality requirements.

The AVs will be located on the pipeline alignment, with each to be protected with a post and rail arrangement, which also came out of the SiD / HAZOP workshop, refer to drawing 1151-DL00-W3P-CIV-DRG-10010 at Attachment A. Trafficability along the right of way (ROW) will not be compromised given a three-metre wide maintenance track is to be retained adjacent to and for the length of the pipeline alignment (excluding trenchless crossing locations) to enable inspection and maintenance access by 4WD vehicles (i.e., not a formed or gravelled road).

Refer to Attachment A regarding IFC design drawings showing the AV locations and general arrangement.

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1.3 Request 2: Height of scour valves and manholes

Scour valves and manholes are currently proposed to be located above ground, which may also impact the accessibility of the infrastructure corridor. To limit impacts on other proponents, locate scour valves and manholes at ground level wherever possible.

The proponent is requested to amend plans to locate scour valves at ground level to lessen development impacts within the infrastructure corridor. In areas where it is not feasible to locate the valves at ground level, identify and provide details of these locations and ensure that the distance between the scour valve and water pipeline is greater than 50 m.

1.4 Response

As noted at Section 1.2, review and rationalisation of valves has occurred as part of both the SiD / HAZOP and construction review processes.

Scour valves (SVs) are required to assist in draining the pipeline in the event of either planned or unplanned maintenance events. SVs have been included at major low points only and have been significantly reduced from a total of 230 with spacings every 200 m to 800 m along the FGP as outlined in the Planning Report (GHD, 2023). The number of above ground SVs have been reduced to 51 on the FGP with an average spacing of approximately 2,300 m. There are 11 SVs on GSDA land as indicated in the issued for construction drawings, broken down by landholder interest as follows:

- GPC land – 3
- CG land – 4
- MEDQ land – 1
- Roads – 3 (GRC).

Isolation valves (IVs) are required in the case of failure in the pipeline, pump station, storage reservoir or Water Treatment Plant (WTP). There are three above ground IVs in the GSDA – one each on CG lands (at ~CH102700, lot 20 SP272417), GAWB land (Aldoga Reservoirs, lot 2 SP260764) and a GRC road reserve (Lindherr Road, at ~CH113225).

Each valve would be protected with a post and rail arrangement (refer to response to Section 1.2). All AVs, SVs and IVs are located directly on the pipeline i.e., they are not offset, with trafficability maintained as per response at Section 1.2.

Refer to Attachment A regarding IFC design drawings showing the SV and IV locations and general arrangement.

No manholes are included in the FGP design.

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All equipment identified in Section 1.2 and 1.4 (i.e., AV, SV and IV) is located above ground to assist with future maintenance and operability as agreed with GAWB and Owners Engineer during the Early Contractor Involvement (ECI) phase / innovations process, and extensive SiD / HAZOP workshops.

There is potentially the requirement for an above-ground tie-in to the GAWB system at Mt Miller on GPC land (Lot 7 SP145439) as indicated in the Planning Report (GHD, 2023), noting this is currently still subject to negotiation with GAWB / GPC. If needed, this would include a 20m x 12m compound on the ROW, secured by a 2.4 m high chain wire mesh fence (refer to drawings 1151-DL07-W3P-CIV-DRG-27013 and 1151-DL07-W3P-CIV-DRG-27014_Rev F at Attachment A).

1.5 Request 3: Proposed plans

The proposed plans provided as part of Appendix F – Design Details are labelled ‘preliminary’ and ‘not to be used for construction purposes.’ Construction plans are required to properly understand the impacts generated by the proposed development.

The proponent is requested to confirm the status of the plans and if they are to be used for construction. If not, please provide plans suitable for construction for the proposed development.

1.6 Response

The drawings for the GSDA (i.e., ~CH96000 to CH117000) have progressed to IFC and are included at Attachment A. Table 1 provides the drawing register.

Table 1 Drawing Register

Design Document Reference	Stage	Rev	Description
1151-DL00-W3P-CIV-DRG-10010	IFC	1	STANDARD DETAILS TYPLE POST AND RIAL ENCLOSURE
1151-DL05-W3P-PL-DRG-65138	IFC	1	DL05 PIPELINE CH 95,785.10 - 96,485.10
1151-DL05-W3P-PL-DRG-65139	IFC	2	DL05 PIPELINE CH 96,485.10 - 97,185.10
1151-DL05-W3P-PL-DRG-65140	IFC	1	DL05 PIPELINE CH 97,185.10 - 97,885.10
1151-DL05-W3P-PL-DRG-65141	IFC	1	DL05 PIPELINE CH 97,885.10 - 98,585.10
1151-DL05-W3P-PL-DRG-65142	IFC	1	DL05 PIPELINE CH 98,585.10 - 99,285.10
1151-DL05-W3P-PL-DRG-65143	IFC	1	DL05 PIPELINE CH 99,285.10 - 99,985.10
1151-DL05-W3P-PL-DRG-65144	IFC	1	DL05 PIPELINE CH 99,985.10 - 100,685.10
1151-DL05-W3P-PL-DRG-65145	IFC	1	DL05 PIPELINE CH 100,685.10 - 101,385.10
1151-DL05-W3P-PL-DRG-65146	IFC	1	DL05 PIPELINE CH 101,385.10 - 102,085.10
1151-DL05-W3P-PL-DRG-65147	IFC	1	DL05 PIPELINE CH 102,085.10 - 102,785.10
1151-DL05-W3P-PL-DRG-65148	IFC	1	DL05 PIPELINE CH 102,785.10 - 103,485.10

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Design Document Reference	Stage	Rev	Description
1151-DL05-W3P-PLE-DRG-65149	IFC	1	DL05 PIPELINE CH 103,485.10 - 104,185.10
1151-DL05-W3P-PLE-DRG-65150	IFC	1	DL05 PIPELINE CH 104,185.10 - 104,885.10
1151-DL05-W3P-PLE-DRG-65151	IFC	1	DL05 PIPELINE CH 104,885.10 - 105,585.10
1151-DL05-W3P-PLE-DRG-65152	IFC	1	DL05 PIPELINE CH 105,585.10 - 106,285.10
1151-DL05-W3P-PLE-DRG-65153	IFC	1	DL05 PIPELINE CH 106,285.10 - 106,985.10
1151-DL05-W3P-PLE-DRG-65154	IFC	1	DL05 PIPELINE CH 106,985.10 - 107,685.10
1151-DL05-W3P-PLE-DRG-65155	IFC	1	DL05 PIPELINE CH 107,685.10 - 108,385.10
1151-DL05-W3P-PLE-DRG-65156	IFC	1	DL05 PIPELINE CH 108,385.10 - 108,558.32
1151-DL07-W3P-CIV-DRG-17001	IFC	0	DL07 STANDARD DETAILS - ISOLATION VALVE ASSEMBLY
1151-DL07-W3P-CIV-DRG-17002	IFC	0	DL07 STANDARD DETAILS - AIR VALVE ASSEMBLY
1151-DL07-W3P-CIV-DRG-17003	IFC	0	DL07 STANDARD DETAILS - SCOUR ASSEMBLY
1151-DL07-W3P-CIV-DRG-27001	IFC	0	DL07 CONNECTION DETAILS - DL06/DL07 CONNECTION DETAIL
1151-DL07-W3P-CIV-DRG-37010	IFC	1	MT LARCOM YARWUN ROAD NORTH COAST RAIL CRITICAL CROSSING GENERAL ARRANGEMENT
1151-DL07-W3P-CIV-DRG-37011	IFC	1	MT LARCOM YARWUN ROAD NORTH COAST RAIL CRITICAL CROSSING DETAILS
1151-DL07-W3P-CIV-DRG-27013		F	CONNECTION DETAILS
1151-DL07-W3P-CIV-DRG-27014		F	CONNECTION DETAILS
1151-DL07-W3P-CIV-DRG-37020	IFC	1	GLADSTONE MT LARCOM ROAD CRITICAL CROSSING GENERAL ARRANGEMENT
1151-DL07-W3P-CIV-DRG-37021	IFC	1	GLADSTONE MT LARCOM ROAD CRITICAL CROSSING DETAILS
1151-DL07-W3P-CIV-DRG-37030	IFC	1	TARGINNIE ROAD & GLADSTONE MT LARCOM ROAD CRITICAL CROSSING GENERAL ARRANGEMENT
1151-DL07-W3P-CIV-DRG-37031	IFC	1	TARGINNIE ROAD & GLADSTONE MT LARCOM ROAD CRITICAL CROSSING DETAILS
1151-DL07-W3P-CIV-DRG-37040	IFC	1	RTA SLURRY PIPELINE CRITICAL CROSSING GENERAL ARRANGEMENT
1151-DL07-W3P-CIV-DRG-37041	IFC	1	RTA SLURRY PIPELINE CRITICAL CROSSING DETAILS
1151-DL07-W3P-CIV-DRG-37050	IFC	1	RTA COAL CONVEYOR CRITICAL CROSSINGS GENERAL ARRANGEMENT
1151-DL07-W3P-CIV-DRG-37051	IFC	1	RTA COAL CONVEYOR CRITICAL CROSSINGS DETAILS
1151-DL07-W3P-PLE-DRG-67002	IFC	3	DL07 PIPELINE CH 108899.44 - 109579.44
1151-DL07-W3P-PLE-DRG-67003	IFC	0	DL07 PIPELINE CH 109579.44 - 110279.44
1151-DL07-W3P-PLE-DRG-67004	IFC	3	DL07 PIPELINE CH 110279.44 - 110979.44
1151-DL07-W3P-PLE-DRG-67005	IFC	0	DL07 PIPELINE CH 110979.44 - 111679.44
1151-DL07-W3P-PLE-DRG-67006	IFC	3	DL07 PIPELINE CH 111679.44 - 112379.44
1151-DL07-W3P-PLE-DRG-67007	IFC	0	DL07 PIPELINE CH 112379.44 - 113079.44
1151-DL07-W3P-PLE-DRG-67008	IFC	0	DL07 PIPELINE CH 113079.44 - 113779.44

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Design Document Reference	Stage	Rev	Description
1151-DL07-W3P-PLE-DRG-67009	IFC	0	DL07 PIPELINE CH 113779.44 - 114479.44
1151-DL07-W3P-PLE-DRG-67010	IFC	3	DL07 PIPELINE CH 114479.44 - 115179.44
1151-DL07-W3P-PLE-DRG-67011	IFC	3	DL07 PIPELINE CH 115179.44 - 115879.44
1151-DL07-W3P-PLE-DRG-67012	IFC	0	DL07 PIPELINE CH 115879.44 - 116568.03

The plans remain in general accordance with the preliminary SMEC drawings included in the Planning Report (GHD, 2023).

1.7 Request 4: Critical crossing detail plans

Critical crossing detail plans are requested to understand development impacts over four locations.

The proponent is requested to provide the following critical crossing detail plans: 37051, 37040, 37030 and 37010.

1.8 Response

The specific drawings requested are attached at Attachment A (also refer to Section 1.6).

1.9 Request 5: Temporary construction areas

Limited detail has been provided about temporary construction areas has been provided in the application material. Additional information is required to understand the impacts on [sic].

The proponent is requested to identify probable temporary construction areas on a map and provide a summary about how they will be appropriately used and managed to limit impacts such as transport and noise.

1.10 Response

GAWB and MBJV has investigated temporary construction areas to enable safe and efficient construction of the FGP. Due to the potential time impacts to grant of this MCU and operational works approval, additional workspace will not be considered at this time. However, it should be noted existing access tracks may be used to gain access to the ROW. This access will be managed under Appendix A of the Traffic Management Plan (MBJV, 2023), refer to Attachment B for an excerpt of the Traffic Management Plan (MBJV, 2023) specifically dealing with the matter (i.e., Appendix A: Temporary Site Access Routes). Please note the Traffic Management Plan (MBJV, 2023) was provided to OCG 24 July 2023.

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There will be no change in use for these accesses, and as such, it is considered that there would not be any additional approvals required.

2. Conclusion

We trust the above information request responses are sufficient to allow your assessment of the application. Please do not hesitate to contact the undersigned should you have any questions in relation to the above matters.

Regards



Simon Wakefield

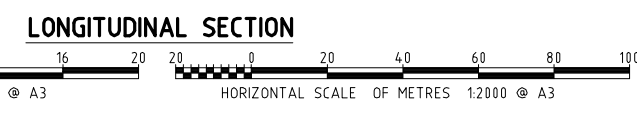
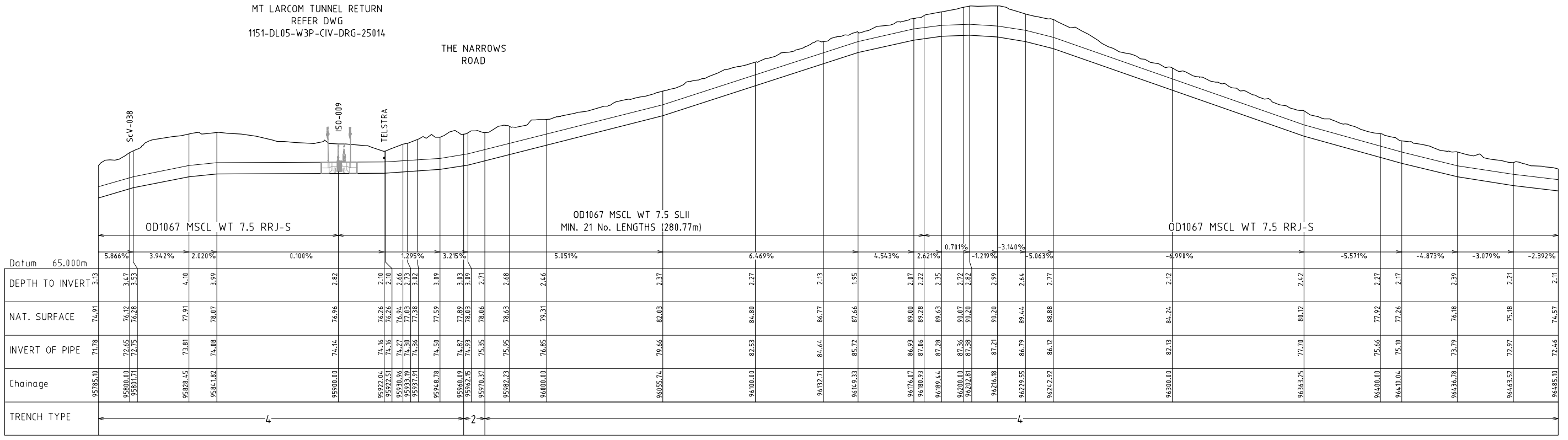
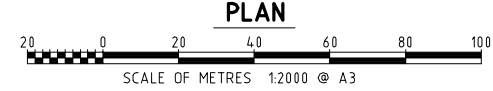
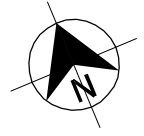
FGP Approvals Manager

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Attachment A – IFC Design Drawings



- LEGEND: PROPOSED:**
- ⊗ - AIR VALVE
 - ⊖ - SCOUR VALVE
 - ⊙ - ISOLATION VALVE
 - ⊕ - CONTROL VALVE
 - - PIPELINE
 - - ENVELOPER PIPE
- LEGEND: EXISTING:**
- - FENCE
 - G - GAS
 - E - ELECT'L POWER (OH or UG)
 - T - TELSTRA CABLE
 - - DRAIN
 - SW - STORM WATER
 - W - WATER OTHER
 - S - SEWER PIPE
 - - 100 ARI FLOOD LEVEL
 - - SURVEYED CADASTRE
 - - RIGHT OF WAY
 - - DCDB
- CONSTRUCTION ZONES** (Yellow dashed line)
- LICENSED AREAS** (Red hatched area)



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *Peter Semianiw* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	26/09/23	LEGEND CHANGED	TA	MM	PS			
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goondoo Street Gladstone Q 4680 PO Box 446 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 95785.10-96485.10

1151-DL05-W3P-PL-DRG-65138

DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23
ACCEPTANCE BY		
RPEQ APPROVAL		
GAWB ACCEPTANCE		

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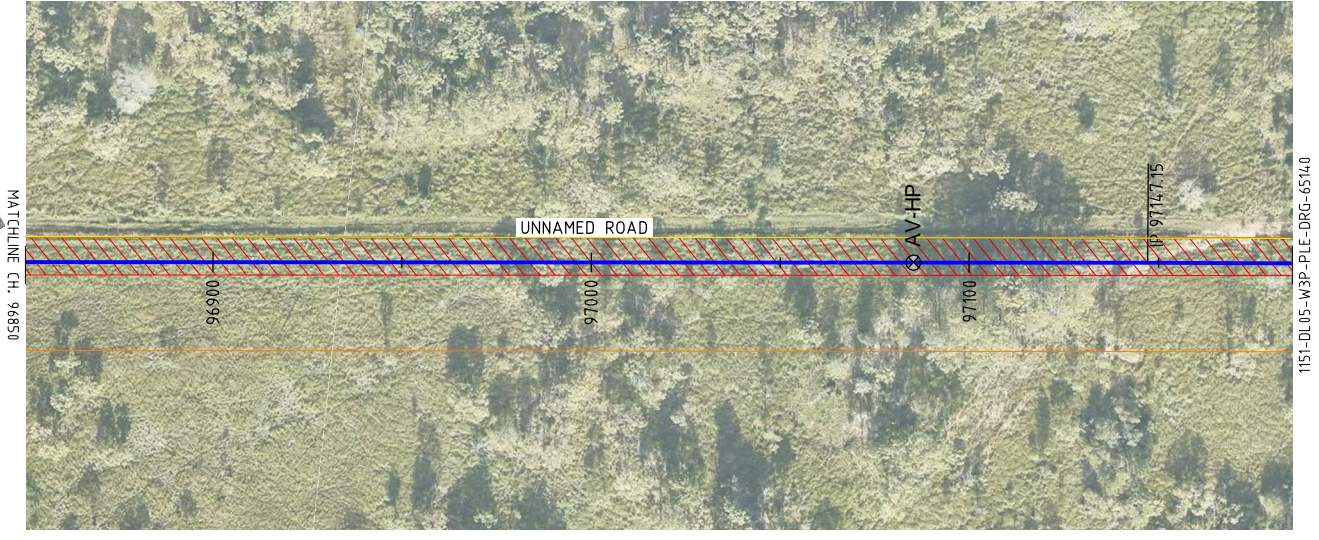
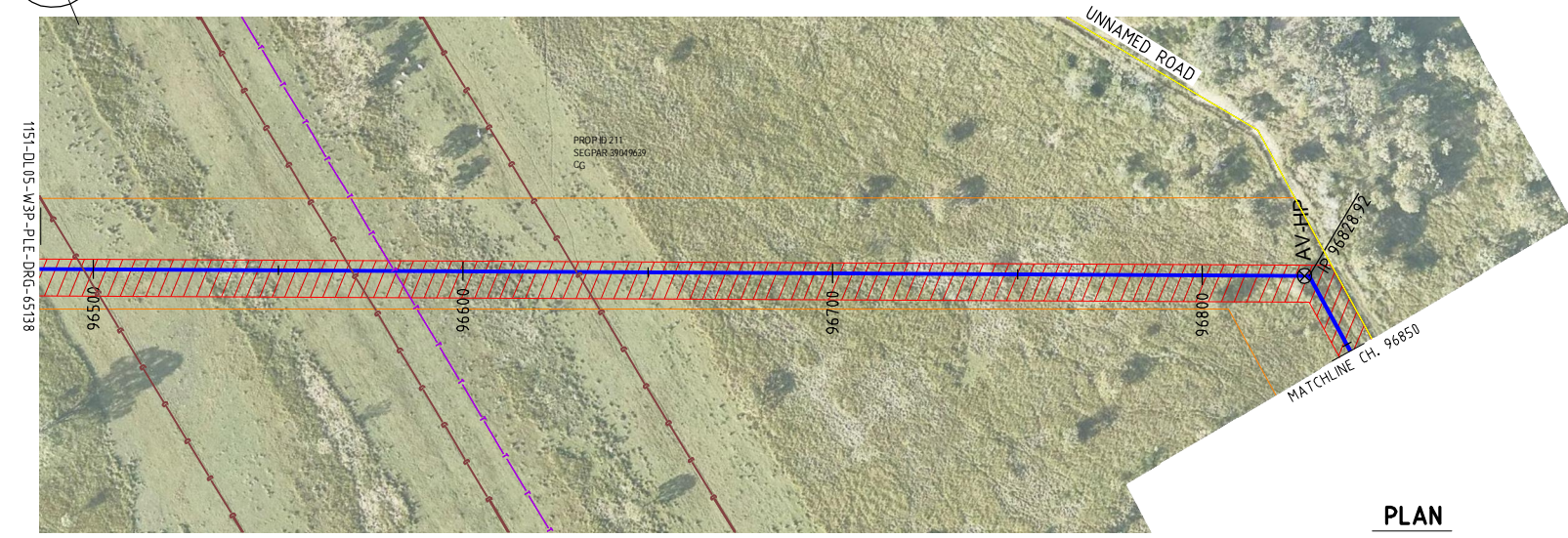
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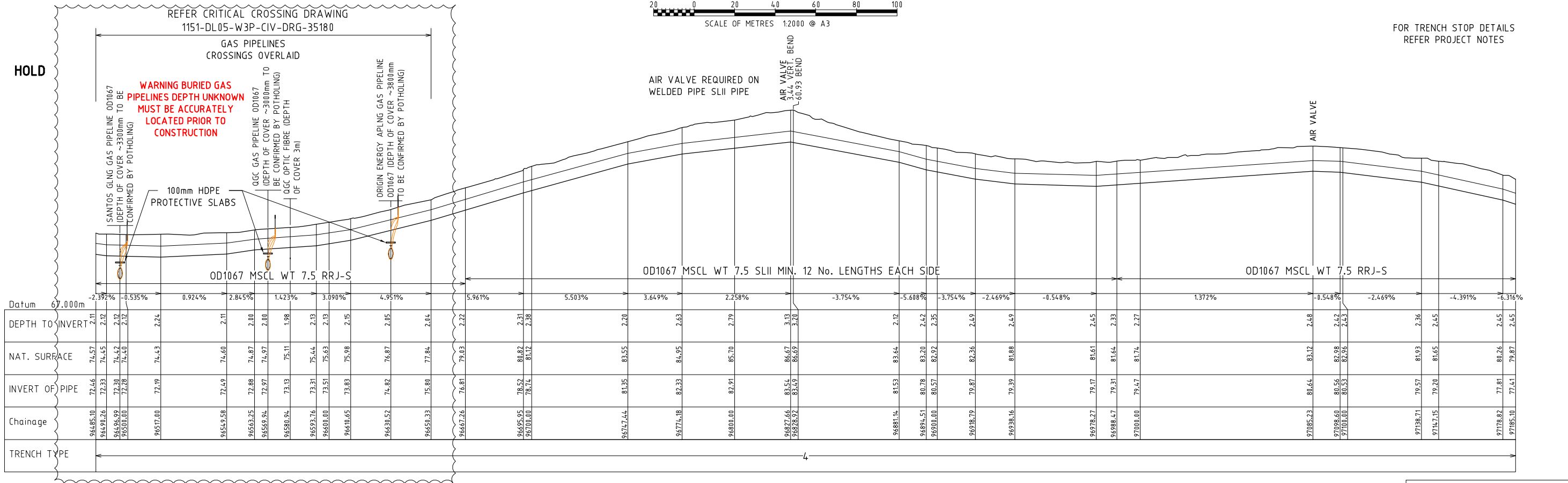
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 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE

- LEGEND: EXISTING:**
- FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELSTRA CABLE
 - DRAIN
 - STORM WATER

- WATER OTHER
- SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB
- CONSTRUCTION ZONES
- LICENSED AREAS



PLAN
SCALE OF METRES 1:2000 @ A3



Datum	67.000m	2.392%	-0.535%	0.924%	2.845%	1.423%	3.090%	4.951%	5.961%	5.503%	3.649%	2.258%	-3.754%	-5.608%	-3.754%	-2.469%	-0.548%	1.372%	-0.548%	-2.469%	-4.391%	-6.316%	
DEPTH TO INVERT	2.11	2.12	2.12	2.11	2.00	1.98	2.13	2.05	2.22	2.31	2.63	2.79	3.13	2.12	2.42	2.49	2.48	2.42	2.45	2.45	2.45	2.45	
NAT. SURFACE	74.57	74.55	74.42	74.40	74.87	75.11	75.44	76.87	79.03	80.82	84.95	85.70	86.67	83.64	83.20	81.88	83.12	82.88	81.93	81.65	80.26	79.87	
INVERT OF PIPE	72.46	72.33	72.30	72.28	72.87	73.13	73.31	73.51	76.81	78.52	82.33	82.91	83.54	81.53	80.78	79.39	80.64	80.56	79.57	79.20	77.81	77.41	
Chainage	96485.10	96499.26	96500.00	96517.00	96549.58	96563.75	96569.94	96580.94	96593.76	96600.00	96610.65	96630.52	96667.26	96681.14	96894.51	96900.00	96918.79	96938.16	97000.00	97098.60	97100.00	97138.71	97147.15
TRENCH TYPE																							

LONGITUDINAL SECTION
VERTICAL SCALE OF METRES 1:400 @ A3
HORIZONTAL SCALE OF METRES 1:2000 @ A3

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEP NO: 15975
DIVISION: CIVIL
SIGNATURE: DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
2	26/09/23	LEGEND CHANGED	TA	MM	PS			
1	05/09/23	HDPE PROTECTIVE SLABS ADDED	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



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FITZROY TO GLADSTONE PIPELINE PROJECT
DL05 PIPELINE CH 96485.10 - 97185.10

1151-DL05-W3P-PLD-DRG-65139

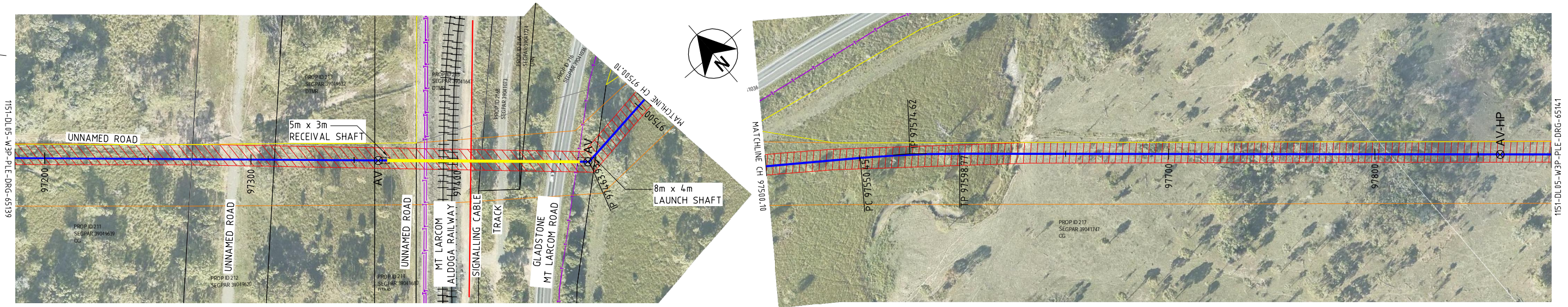
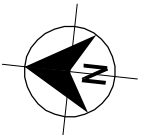
DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23
ACCEPTANCE BY		
RPEP APPROVAL		
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PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	2

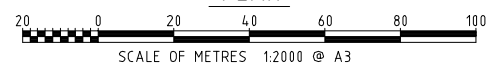


- LEGEND: PROPOSED:**
- ⊗ - AIR VALVE
 - ∇ - SCOUR VALVE
 - ⊗ - ISOLATION VALVE
 - ⊗ - CONTROL VALVE
 - - PIPELINE
 - - ENVELOPER PIPE
- LEGEND: EXISTING:**
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 - G - GAS
 - E - ELECT'L POWER (OH or UG)
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 - - DRAIN
 - SW - STORM WATER
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 - - RIGHT OF WAY
 - - DCDB
 - - CONSTRUCTION ZONES
 - - LICENSED AREAS

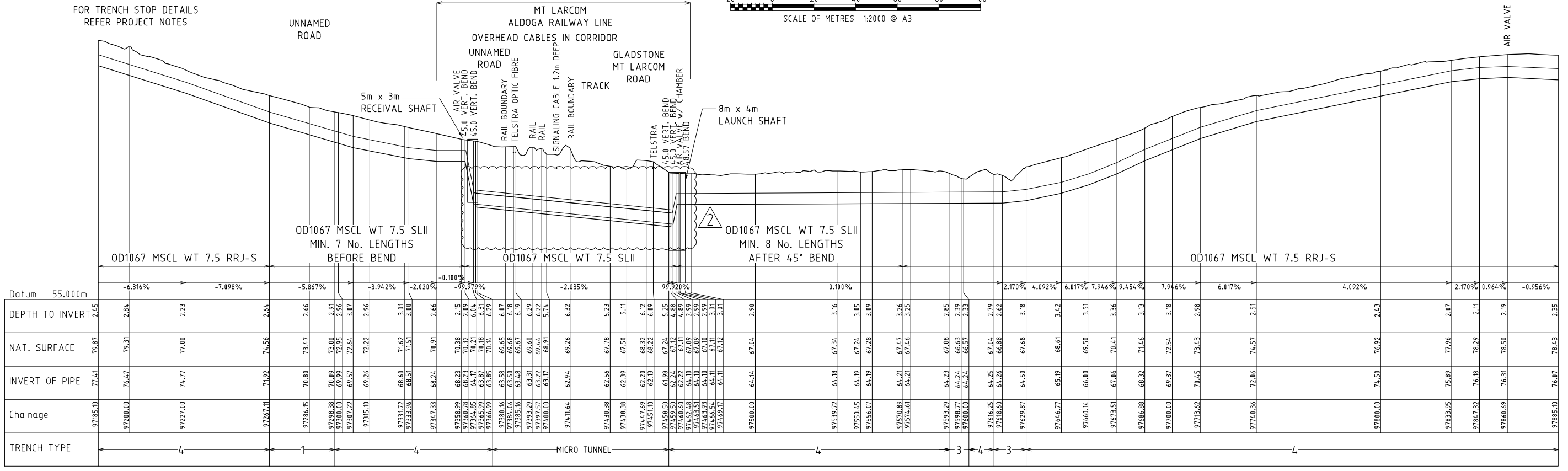


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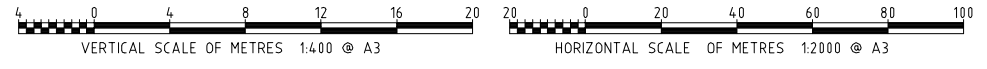
PLAN



FOR TRENCH STOP DETAILS
REFER PROJECT NOTES



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *[Signature]* DATE: 13/10/23

ISSUED FOR CONSTRUCTION



Gladstone Area Water Board		136 Goodson Street Gladstone Q 4680	PO Box 446 Gladstone Q 4680	Tel: (07) 4976 3000 ABN: 88 409 667 181
DRAWN BY	TED ALVARADO	26/09/23	FITZROY TO GLADSTONE PIPELINE PROJECT DL05 PIPELINE CH 97185.10-97885.10	
DESIGNED BY	MICHAEL MARIES	26/09/23	1151-DL05-W3P-PL-DRG-65140	
REVIEWED BY	PETER SEMIANIW	26/09/23	PROJECT No.	SIZE
ACCEPTANCE BY			GAWB #	A3
RPEQ APPROVAL			DRAWING No.	XXX-X-XXXX
GAWB ACCEPTANCE			SCALE	AS NOTED
			REV	2

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
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1	26/09/23	LEGEND CHANGED & AV'S ADDED	TA	MM	PS			
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			

DO NOT SCALE



LEGEND:
PROPOSED:

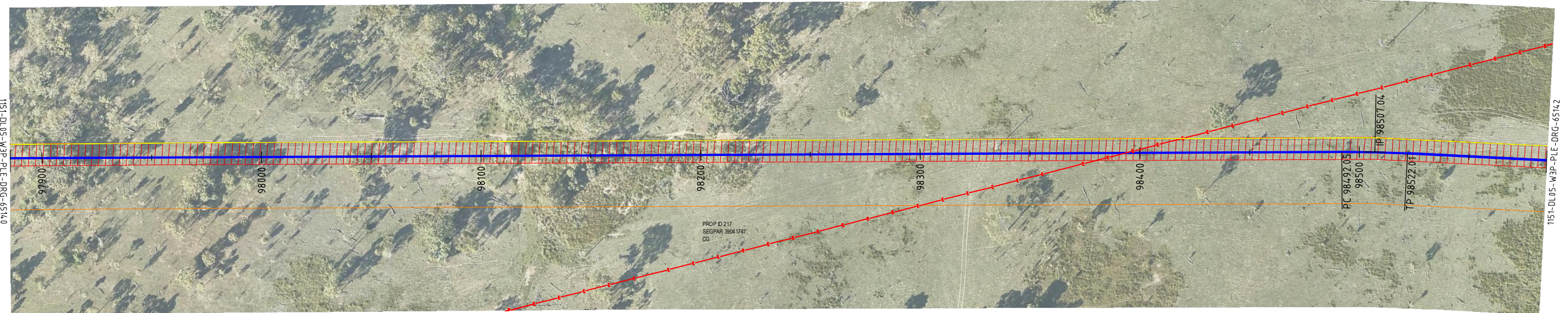
- ⊗ - AIR VALVE
- ▽ - SCOUR VALVE
- ⊗ - ISOLATION VALVE
- ⊗ - CONTROL VALVE
- - PIPELINE
- - ENVELOPER PIPE

LEGEND:
EXISTING:

- - FENCE
- - GAS
- - ELECT'L POWER (OH or UG)
- - TELSTRA CABLE
- - DRAIN
- - STORM WATER

- - WATER OTHER
- - SEWER PIPE
- - 100 ARI FLOOD LEVEL
- - SURVEYED CADASTRE
- - RIGHT OF WAY
- - DCDB

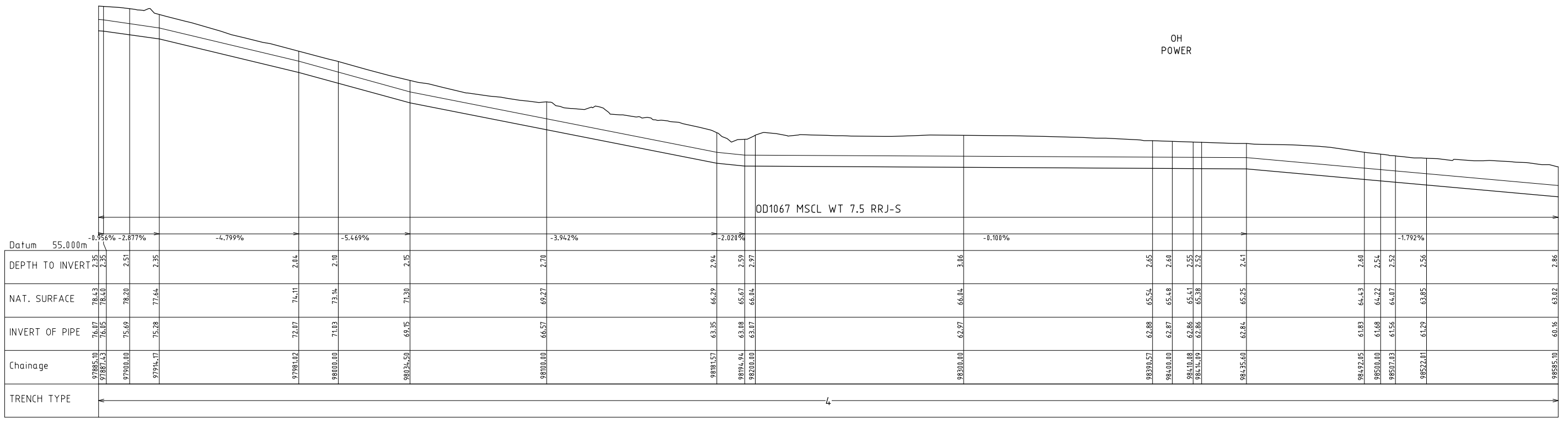
- - CONSTRUCTION ZONES
- - LICENSED AREAS



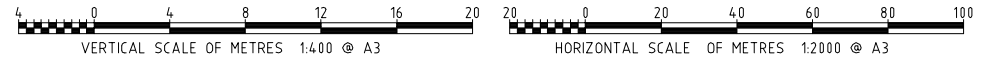
PLAN



FOR TRENCH STOP DETAILS REFER PROJECT NOTES



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *[Signature]* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	26/09/23	LEGEND CHANGED	TA	MM	PS			
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board

136 Goondoo Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DRAWN BY: TED ALVARADO 26/09/23
DESIGNED BY: MICHAEL MARIES 26/09/23
REVIEWED BY: PETER SEMIANIW 26/09/23

FITZROY TO GLADSTONE PIPELINE PROJECT
DL05 PIPELINE CH 97885.10-98585.10

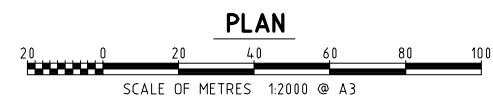
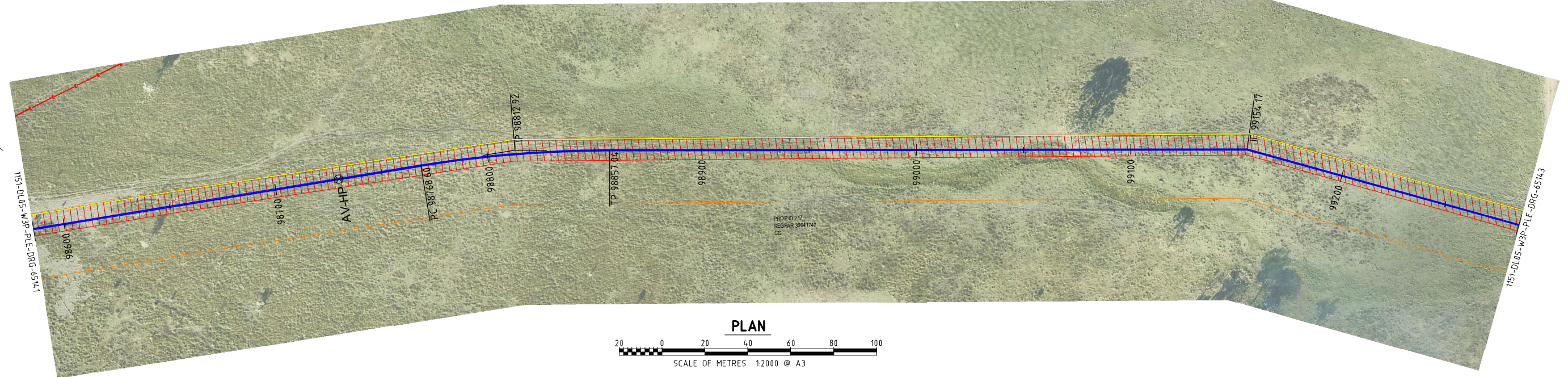
1151-DL05-W3P-PL-DRG-65142
PROJECT No. GAWB # A3 DRAWING No. XXX-X-XXXX SCALE AS NOTED REV 1

THIS DRAWING IS THE PROPERTY OF GLADSTONE AREA WATER BOARD AND IS NOT TO BE COPIED OR USED WITHOUT ITS WRITTEN PERMISSION
INITIALS SHOWING (W) AS TERRESTRIAL INDICATE ORIGINAL SIGNATURE HAS BEEN SIGNED OFF AS PER DATE INDICATED

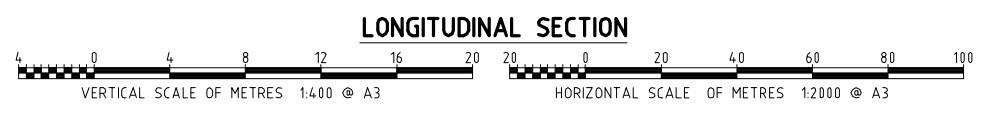
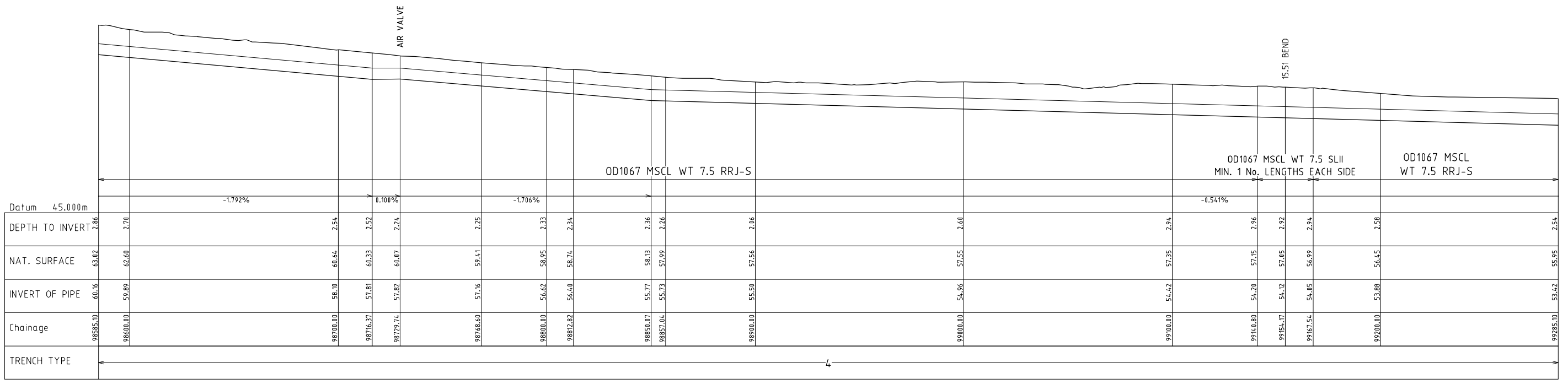
DO NOT SCALE



- LEGEND: PROPOSED:**
- ⊗ - AIR VALVE
 - ▽ - SCOUR VALVE
 - ⊗ - ISOLATION VALVE
 - ⊗ - CONTROL VALVE
 - - PIPELINE
 - - ENVELOPER PIPE
- LEGEND: EXISTING:**
- - FENCE
 - G - GAS
 - E - ELECT'L POWER (OH or UG)
 - T - TELSTRA CABLE
 - - DRAIN
 - SW - STORM WATER
- W - WATER OTHER
 - S - SEWER PIPE
 - - 100 ARI FLOOD LEVEL
 - - SURVEYED CADASTRE
 - - RIGHT OF WAY
 - - DCDB
- CONSTRUCTION ZONES
 - LICENSED AREAS



FOR TRENCH STOP DETAILS REFER PROJECT NOTES



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *Peter Semianiw* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	26/09/23	LEGEND CHANGED	TA	MM	PS			
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 98585.10-99285.10

1151-DL05-W3P-PL-DRG-65142

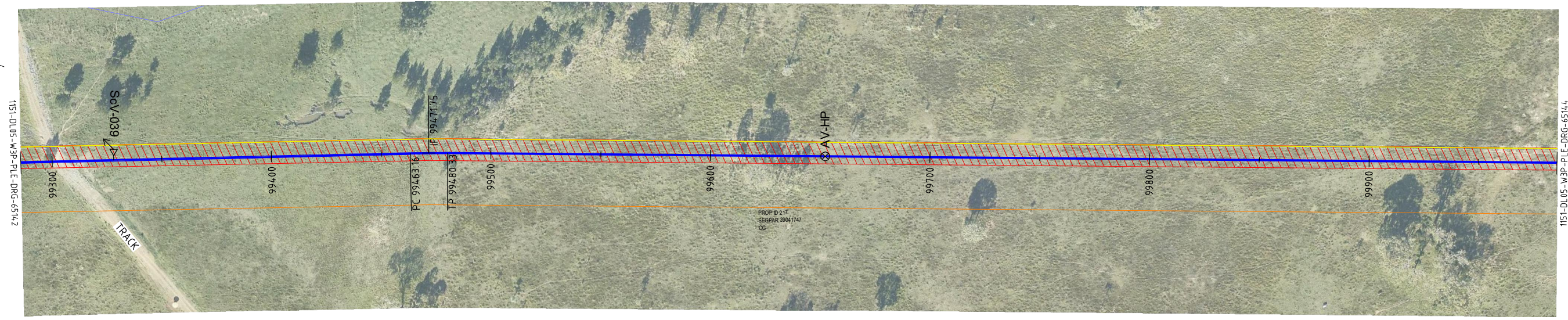
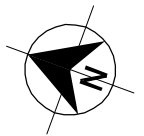
DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23
ACCEPTANCE BY		
RPEQ APPROVAL		
GAWB ACCEPTANCE		

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PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1



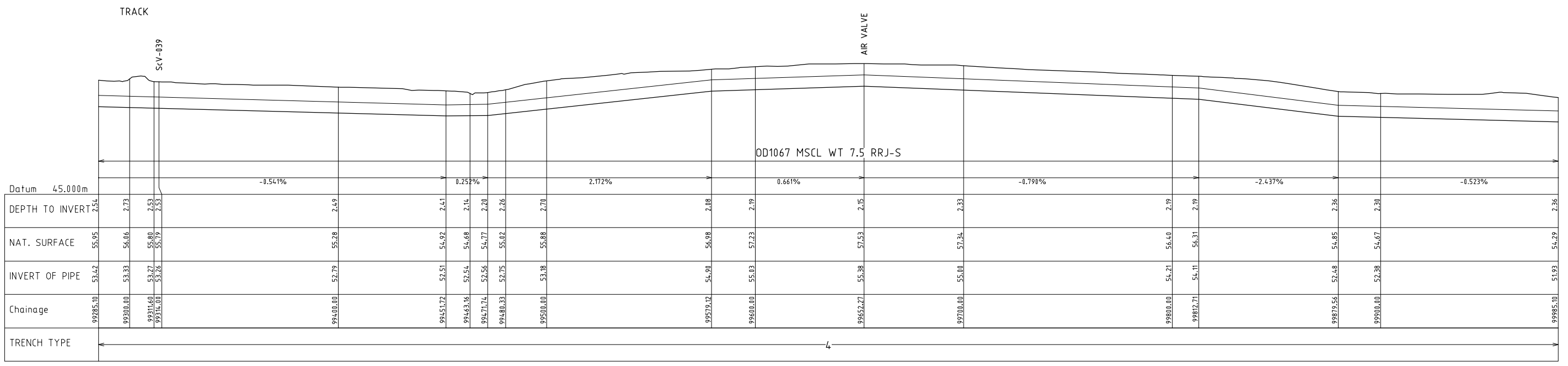
- LEGEND: PROPOSED:**
- ⊗ - AIR VALVE
 - ▽ - SCOUR VALVE
 - ⊗ - ISOLATION VALVE
 - ⊗ - CONTROL VALVE
 - - PIPELINE
 - - ENVELOPER PIPE
- LEGEND: EXISTING:**
- - FENCE
 - G - GAS
 - E - ELECT'L POWER (OH or UG)
 - T - TELSTRA CABLE
 - - DRAIN
 - SW - STORM WATER
- W - WATER OTHER
 - S - SEWER PIPE
 - - 100 ARI FLOOD LEVEL
 - - SURVEYED CADASTRE
 - - RIGHT OF WAY
 - - DCDB
- CONSTRUCTION ZONES (yellow dashed line)
- LICENSED AREAS (red hatched area)



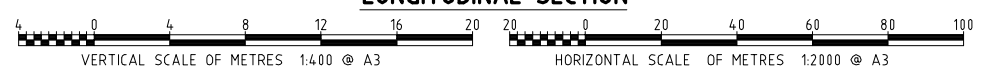
PLAN



FOR TRENCH STOP DETAILS REFER PROJECT NOTES



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *[Signature]* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	26/09/23	LEGEND CHANGED	TA	MM	PS			
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DESIGNED BY: TED ALVARADO 26/09/23
 DESIGNED BY: MICHAEL MARIES 26/09/23
 REVIEWED BY: PETER SEMIANIW 26/09/23

ACCEPTANCE BY: PETER SEMIANIW
 RPEQ APPROVAL: [Signature]
 GAWB ACCEPTANCE: [Signature]

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FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 99285.10-99985.10

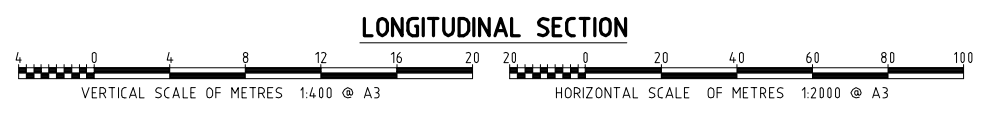
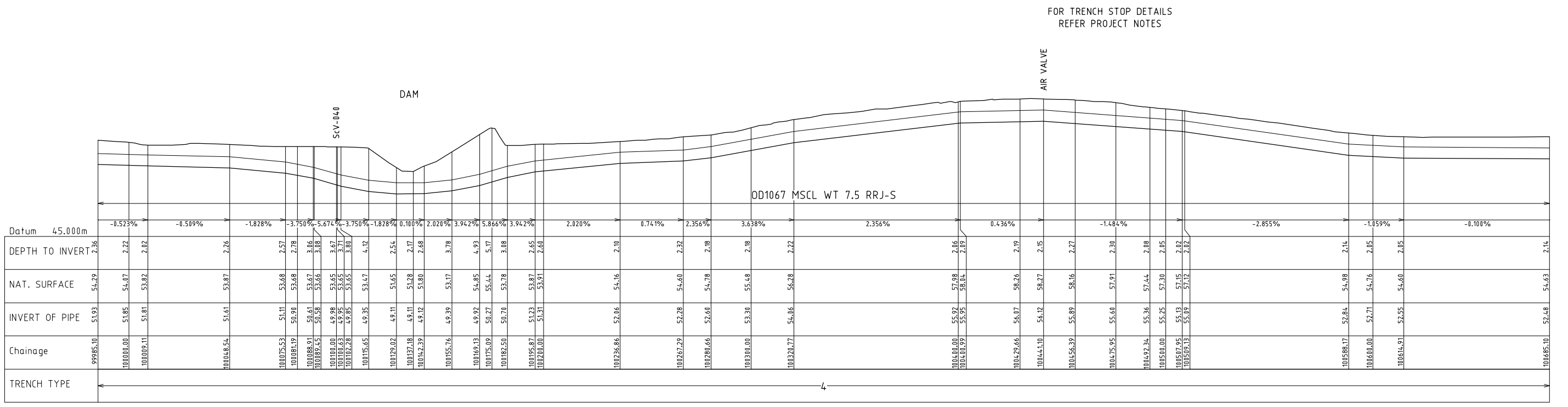
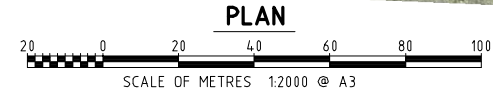
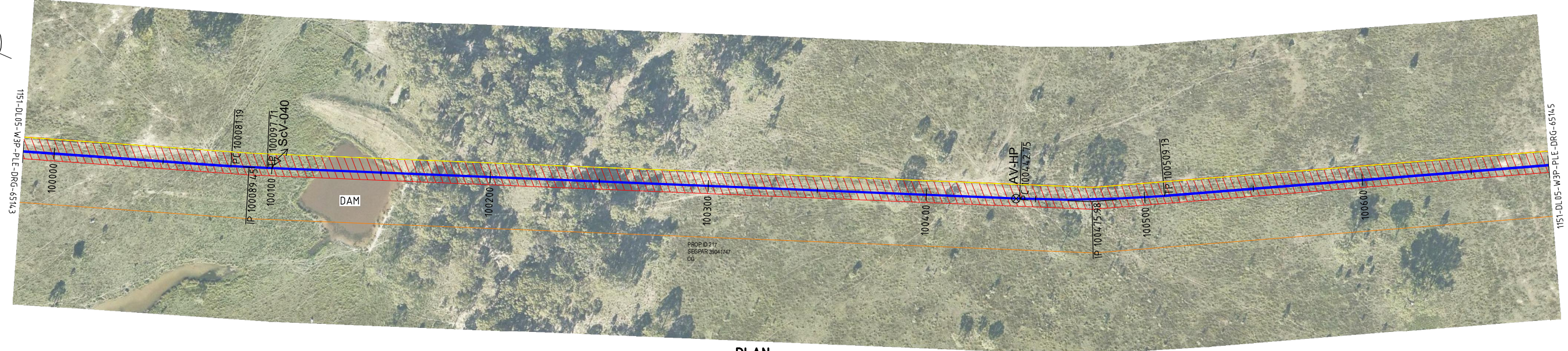
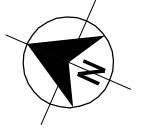
1151-DL05-W3P-PL-DRG-65143

PROJECT No. GAWB # A3 DRAWING No. XXX-X-XXXX SCALE AS NOTED REV 1

DO NOT SCALE



- LEGEND: PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE
- LEGEND: EXISTING:**
- FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELSTRA CABLE
 - DRAIN
 - STORM WATER
 - WATER OTHER
 - SEWER PIPE
 - 100 ARI FLOOD LEVELS
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCDB
- CONSTRUCTION ZONES**
- CONSTRUCTION ZONES
 - LICENSED AREAS



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *[Signature]* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	26/09/23	LEGEND CHANGED	TA	MM	PS			
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goodnoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 99985.10-100685.10

1151-DL05-W3P-PL-DRG-65144

DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23
ACCEPTANCE BY		
RPEQ APPROVAL		
GAWB ACCEPTANCE		

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PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1



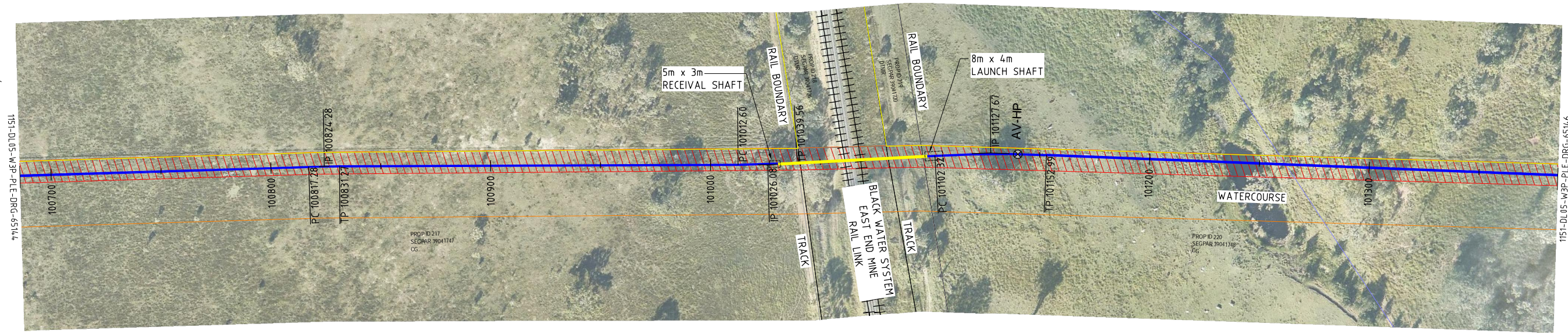
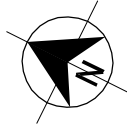
LEGEND: PROPOSED:

- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- PIPELINE
- ENVELOPER PIPE

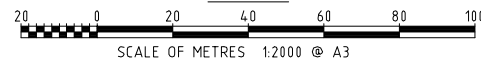
LEGEND: EXISTING:

- FENCE
- GAS
- ELECT'L POWER (OH or UG)
- TELSTRA CABLE
- DRAIN
- STORM WATER

- WATER OTHER
- SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB
- CONSTRUCTION ZONES
- LICENSED AREAS

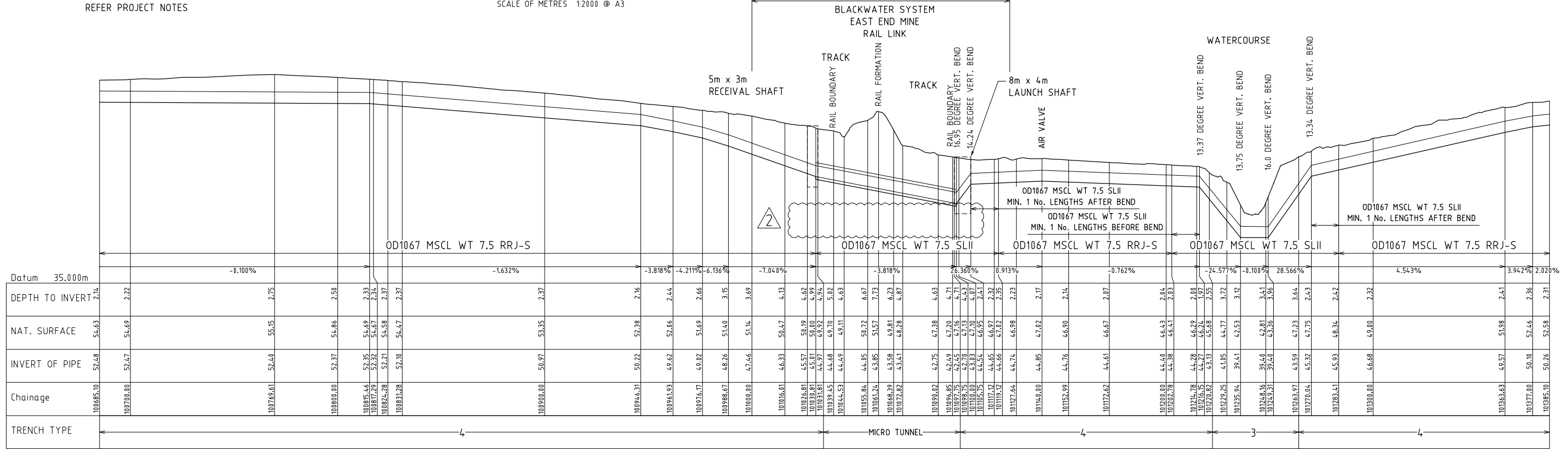


PLAN

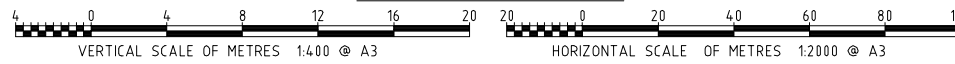


FOR TRENCH STOP DETAILS REFER PROJECT NOTES

REFER CRITICAL CROSSING DRAWING 1151-DL05-W3P-CIV-DRG-35130



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND NAME: PETER SEMIANIW RPEP NO: 15975 DIVISION: CIVIL SIGNATURE: DATE: 13/10/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
2	13/10/23	DETAILS UPDATED	TA	MM	PS			
1	26/09/23	LEGEND CHANGED & SECTION AMENDED	TA	MM	PS			
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board

136 Goodson Street Gladstone Q 4680 PO Box 446 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DRAWN BY: TED ALVARADO 26/09/23 DESIGNED BY: MICHAEL MARIES 26/09/23 REVIEWED BY: PETER SEMIANIW 26/09/23

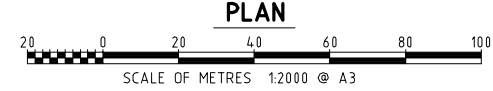
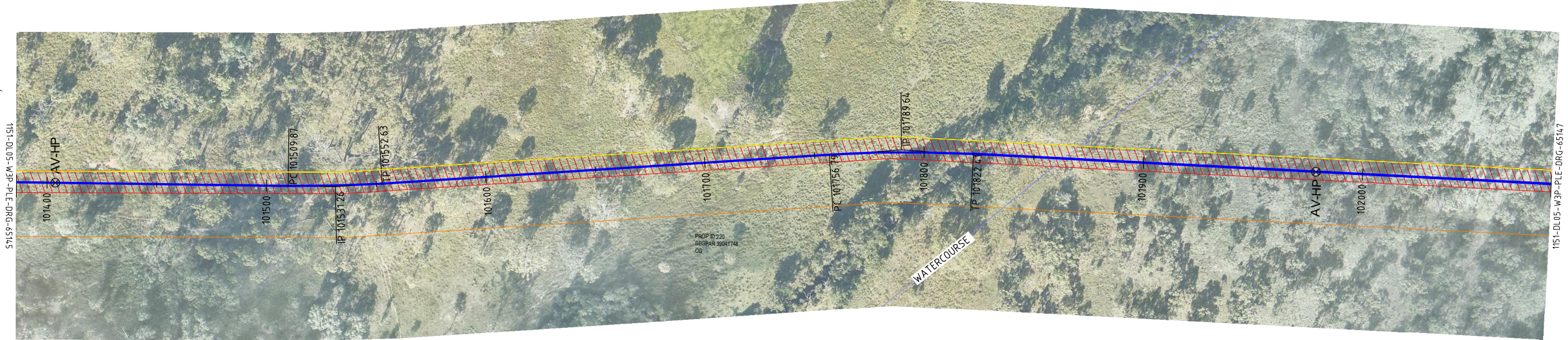
FITZROY TO GLADSTONE PIPELINE PROJECT DL05 PIPELINE CH 100685.10-101385.10

1151-DL05-W3P-PL-DRG-65146	PROJECT No. GAWB #	SIZE A3	DRAWING No. XXX-X-XXXX	SCALE AS NOTED	REV 2
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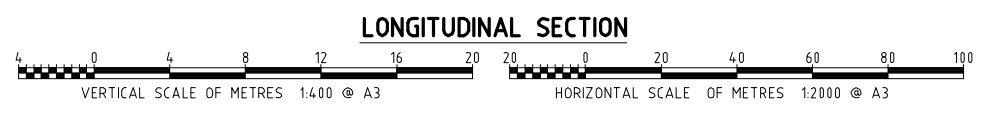
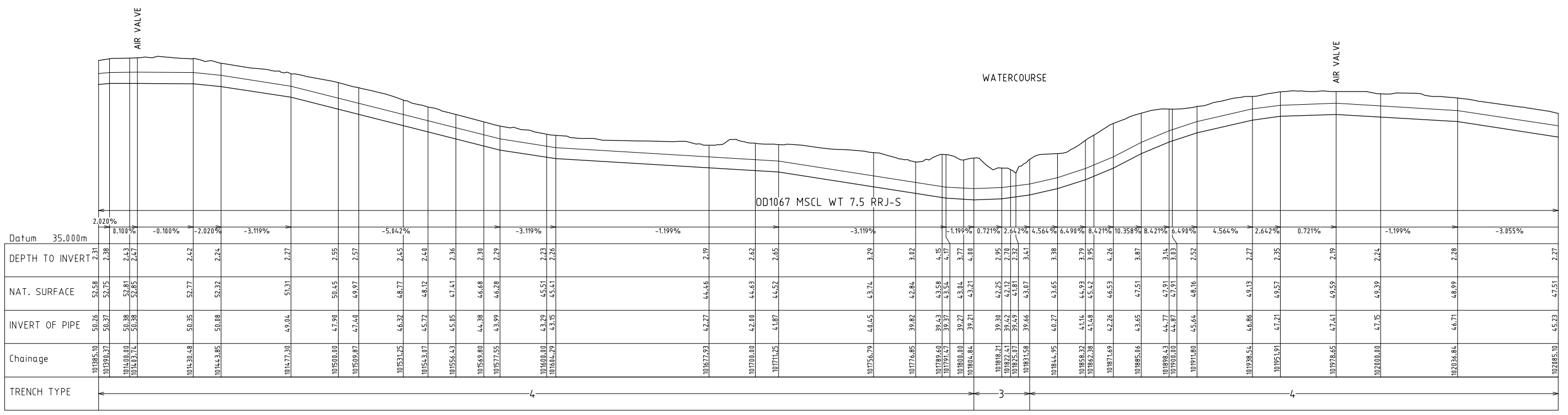
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- LEGEND: PROPOSED:**
- ⊗ - AIR VALVE
 - ▽ - SCOUR VALVE
 - ⊙ - ISOLATION VALVE
 - ⊖ - CONTROL VALVE
 - - PIPELINE
 - - ENVELOPER PIPE
- LEGEND: EXISTING:**
- - FENCE
 - G - GAS
 - E - ELECT'L POWER (OH or UG)
 - T - TELSTRA CABLE
 - - DRAIN
 - SW - STORM WATER
- W - WATER OTHER
 - S - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCDB
- CONSTRUCTION ZONES (dashed yellow)
- LICENSED AREAS (hatched red)



FOR TRENCH STOP DETAILS REFER PROJECT NOTES



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *[Signature]* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	26/09/23	LEGEND CHANGED	TA	MM	PS			
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			

DO NOT SCALE

Gladstone Area Water Board

136 Goondoon Street Gladstone Q 4680 PO Box 446 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

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DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23

ACCEPTANCE BY: [Signature]

PROJECT No. GAWB # 1151-DL05-W3P-PL-DRG-65146

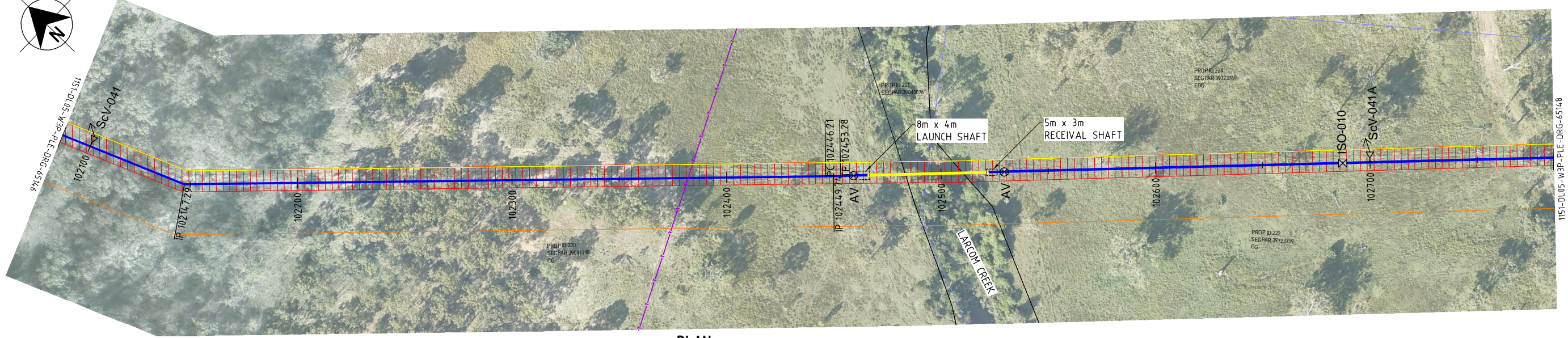
SIZE: A3

SCALE: AS NOTED

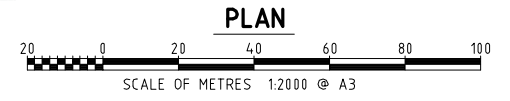
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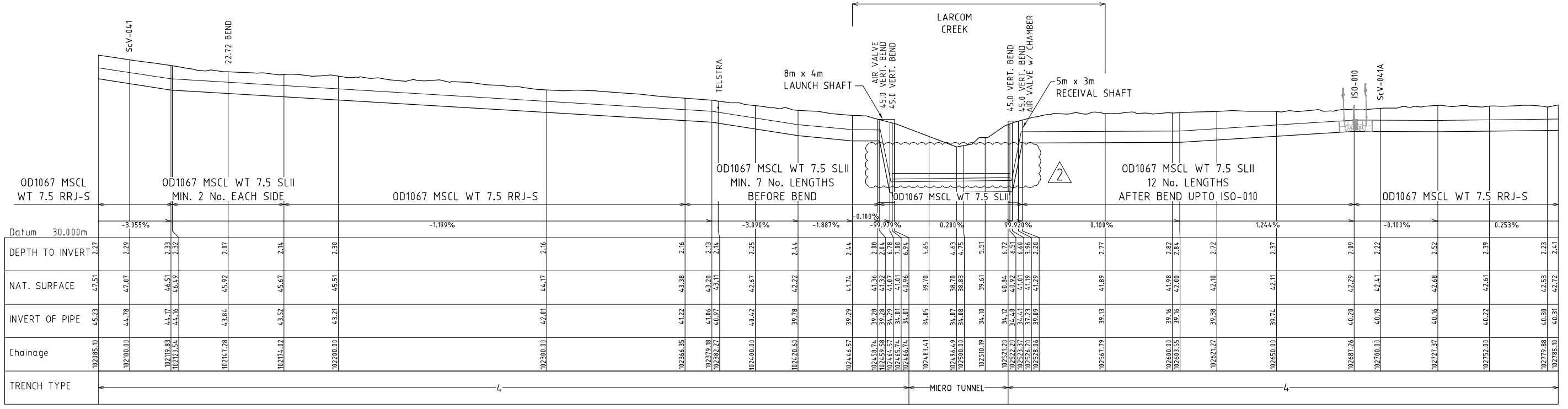
- LEGEND: PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE
- LEGEND: EXISTING:**
- FENCE
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 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCDB
 - CONSTRUCTION ZONES
 - LICENSED AREAS



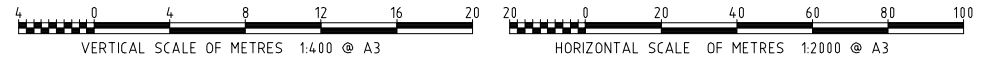
FOR TRENCH STOP DETAILS REFER PROJECT NOTES



REFER CRITICAL CROSSING DRAWING 1151-DL05-W3P-CIV-DRG-35140



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: [Signature] DATE: 13/10/23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
2	13/10/23	DETAILS UPDATED	TA	MM	PS			
1	26/09/23	LEGEND CHANGED & AV'S ADDED	TA	MM	PS			
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goodson Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 102085.10-102785.10

1151-DL05-W3P-PL-DRG-65147

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	2

DO NOT SCALE

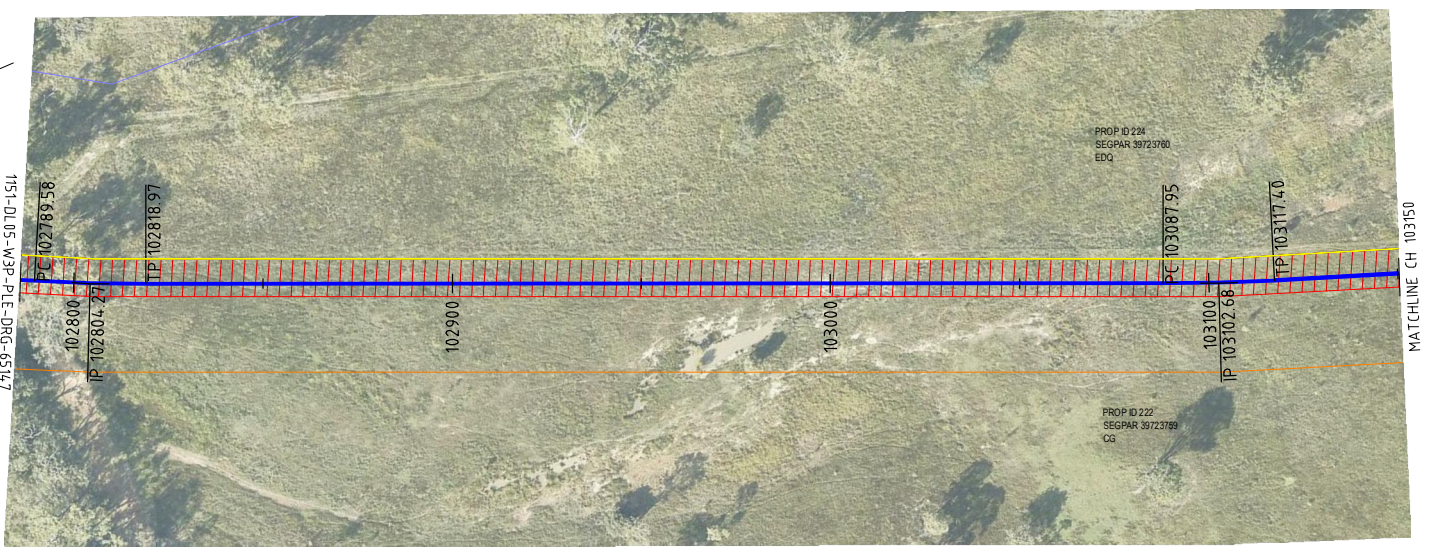
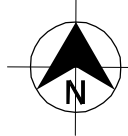
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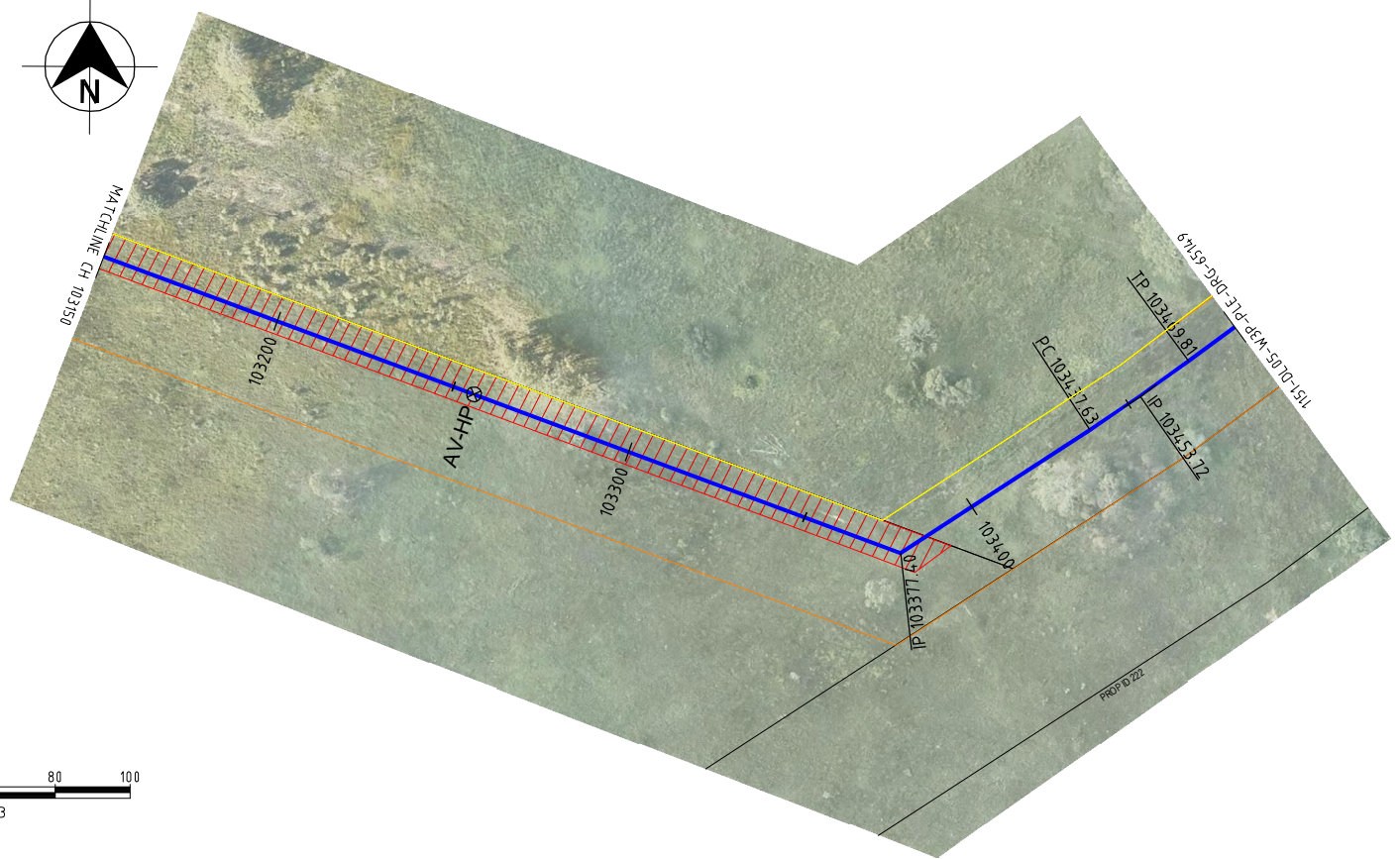
- LEGEND: PROPOSED:**
- ⊗ - AIR VALVE
 - ▽ - SCOUR VALVE
 - ⊙ - ISOLATION VALVE
 - ⊖ - CONTROL VALVE
 - - PIPELINE
 - - ENVELOPER PIPE

- LEGEND: EXISTING:**
- / — - FENCE
 - G — GAS
 - E — ELECT'L POWER (OH or UG)
 - T — TELSTRA CABLE
 - — DRAIN
 - SW — STORM WATER

- W — WATER OTHER
- S — SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB



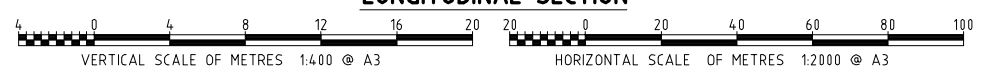
PLAN



FOR TRENCH STOP DETAILS REFER PROJECT NOTES

Station	Chainage	NAT. SURFACE	INVERT OF PIPE	DEPTH TO INVERT	TRENCH TYPE
102785.10	102785.10	42.72	40.31	2.41	TRENCH TYPE
102785.58	102785.58	42.73	40.32	2.41	
102800.00	102800.00	42.73	40.35	2.38	
102804.27	102804.27	42.80	40.36	2.45	
102818.97	102818.97	42.74	40.39	2.34	TRENCH TYPE
102834.33	102834.33	42.70	40.43	2.27	
102900.00	102900.00	43.25	41.13	2.12	TRENCH TYPE
102914.55	102914.55	43.43	41.28	2.15	
103000.00	103000.00	43.56	41.36	2.19	TRENCH TYPE
103034.88	103034.88	43.73	41.40	2.33	
103087.95	103087.95	44.27	42.17	2.09	TRENCH TYPE
103100.00	103100.00	44.27	42.35	1.92	
103102.68	103102.68	44.80	42.37	2.43	
103117.40	103117.40	45.82	42.60	2.42	
103200.00	103200.00	46.23	43.80	2.42	TRENCH TYPE
103255.95	103255.95	46.74	44.62	2.12	
103269.77	103269.77	46.78	44.61	2.17	TRENCH TYPE
103300.00	103300.00	46.97	44.57	2.39	
103377.40	103377.40	47.00	44.50	2.50	TRENCH TYPE
103400.00	103400.00	47.26	44.47	2.78	
103449.81	103449.81	47.51	44.44	3.07	TRENCH TYPE
103469.24	103469.24	47.61	44.39	3.15	
103485.10	103485.10	47.61	44.39	3.22	TRENCH TYPE

LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *Peter Semianiw* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	26/09/23	LEGEND CHANGED	TA	MM	PS			
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 102785.10-103485.10

1151-DL05-W3P-PL-DRG-65148

DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23
ACCEPTANCE BY		
RPEQ APPROVAL		
GAWB ACCEPTANCE		

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PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1



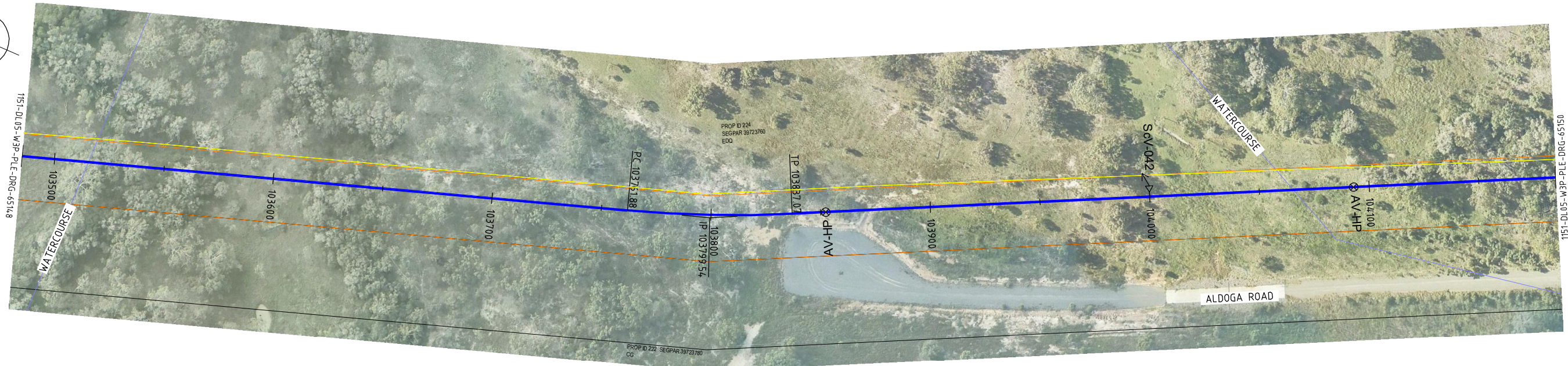
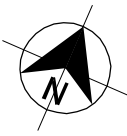
LEGEND:
PROPOSED:

- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- PIPELINE
- ENVELOPER PIPE

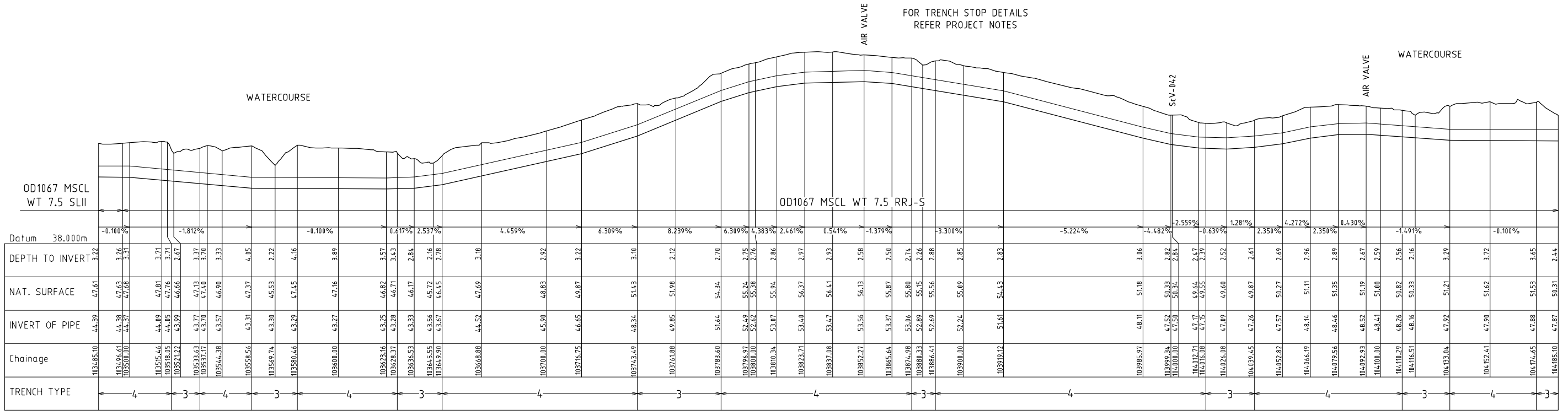
LEGEND:
EXISTING:

- FENCE
- GAS
- ELECT'L POWER (OH or UG)
- TELSTRA CABLE
- DRAIN
- STORM WATER
- WATER OTHER
- SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB

- CONSTRUCTION ZONES
- LICENSED AREAS



PLAN
SCALE OF METRES 1:2000 @ A3



LONGITUDINAL SECTION
VERTICAL SCALE OF METRES 1:400 @ A3
HORIZONTAL SCALE OF METRES 1:2000 @ A3

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *Peter Semianiw* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
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0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			

DO NOT SCALE

Gladstone Area Water Board
136 Goodson Street Gladstone Q 4680 PO Box 446 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

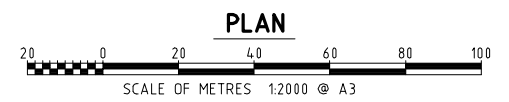
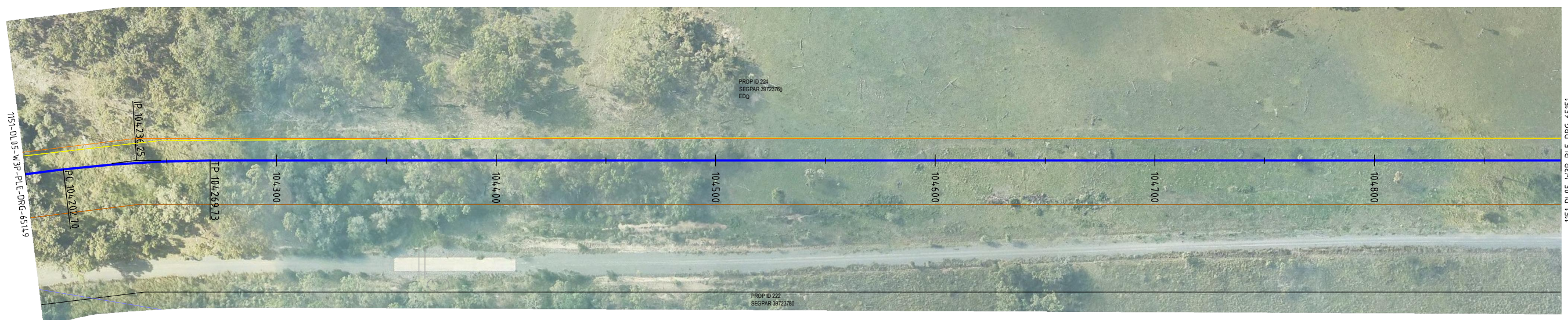
FITZROY TO GLADSTONE PIPELINE PROJECT
DL05 PIPELINE CH 103485.10-104185.10

1151-DL05-W3P-PL-DRG-65149

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1

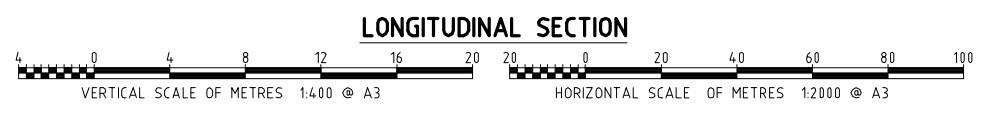
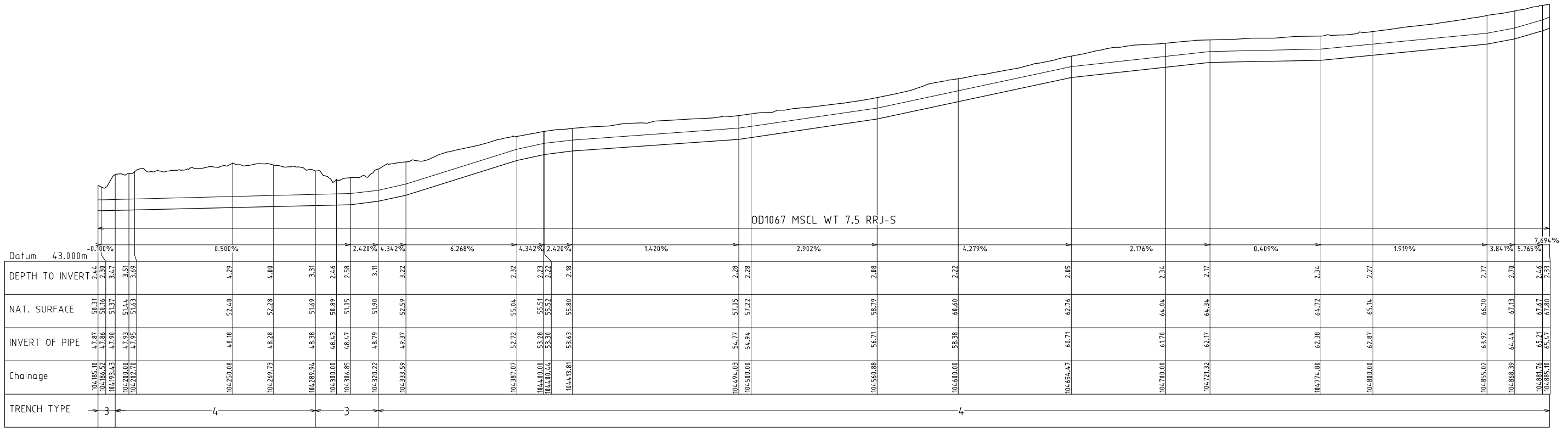


- LEGEND: PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE
- LEGEND: EXISTING:**
- FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELSTRA CABLE
 - DRAIN
 - STORM WATER
- LEGEND:**
- WATER OTHER
 - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCDB
- CONSTRUCTION ZONES**
- LICENSED AREAS



PLAN

FOR TRENCH STOP DETAILS REFER PROJECT NOTES



LONGITUDINAL SECTION

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *[Signature]* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION

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DO NOT SCALE

Gladstone Area Water Board

136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 104185.10-104885.10

1151-DL05-W3P-PL-DRG-65151

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1

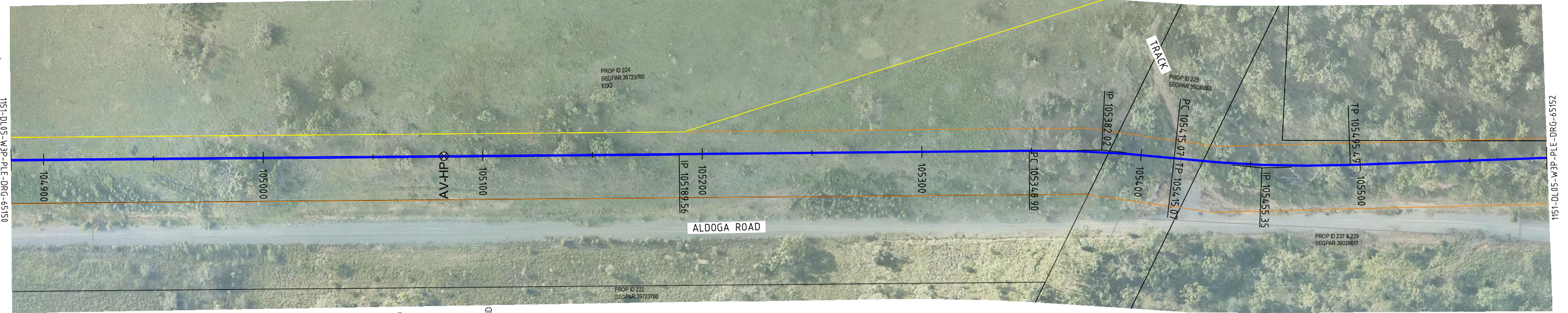
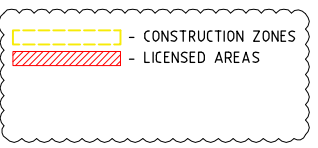


**LEGEND:
PROPOSED:**

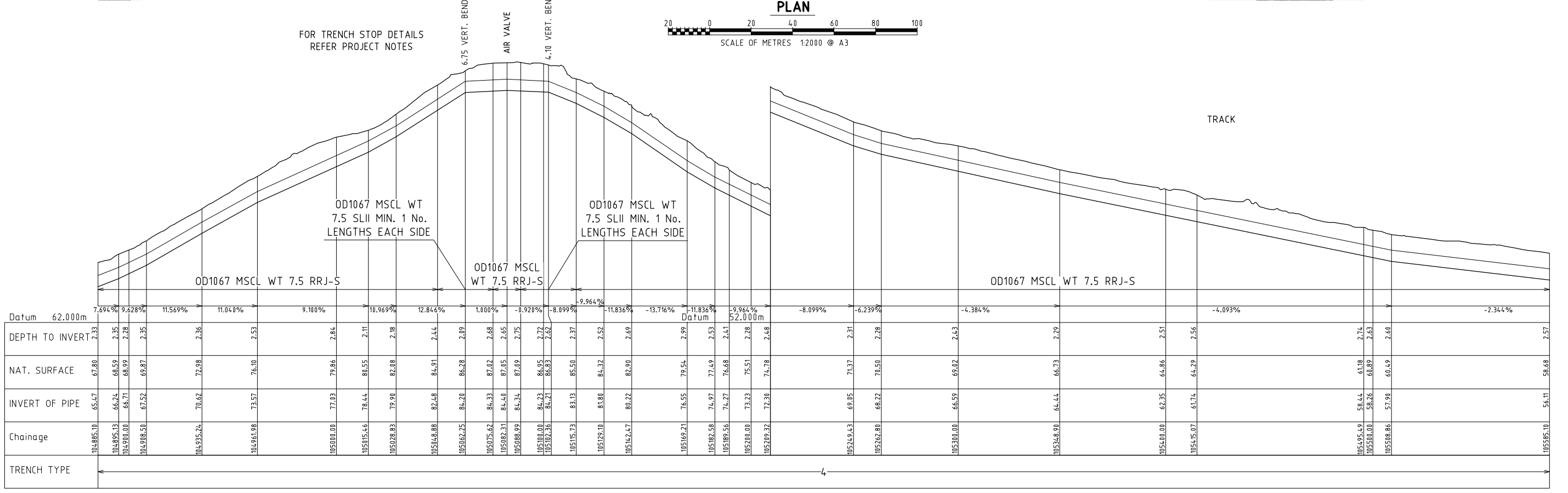
- ⊗ - AIR VALVE
- ▽ - SCOUR VALVE
- ⊘ - ISOLATION VALVE
- ⊙ - CONTROL VALVE
- - PIPELINE
- - ENVELOPER PIPE

**LEGEND:
EXISTING:**

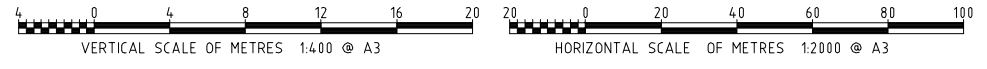
- / — - FENCE
- G - GAS
- E - ELECT'L POWER (OH or UG)
- T - TELSTRA CABLE
- - DRAIN
- SW - STORM WATER
- W - WATER OTHER
- S - SEWER PIPE
- - 100 ARI FLOOD LEVEL
- - SURVEYED CADASTRE
- - RIGHT OF WAY
- - DCDB



FOR TRENCH STOP DETAILS REFER PROJECT NOTES



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *[Signature]* DATE: 26/09/23

ISSUED FOR CONSTRUCTION



Gladstone Area Water Board

136 Goodnoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DRAWN BY: TED ALVARADO 26/09/23
 DESIGNED BY: MICHAEL MARIES 26/09/23
 REVIEWED BY: PETER SEMIANIW 26/09/23

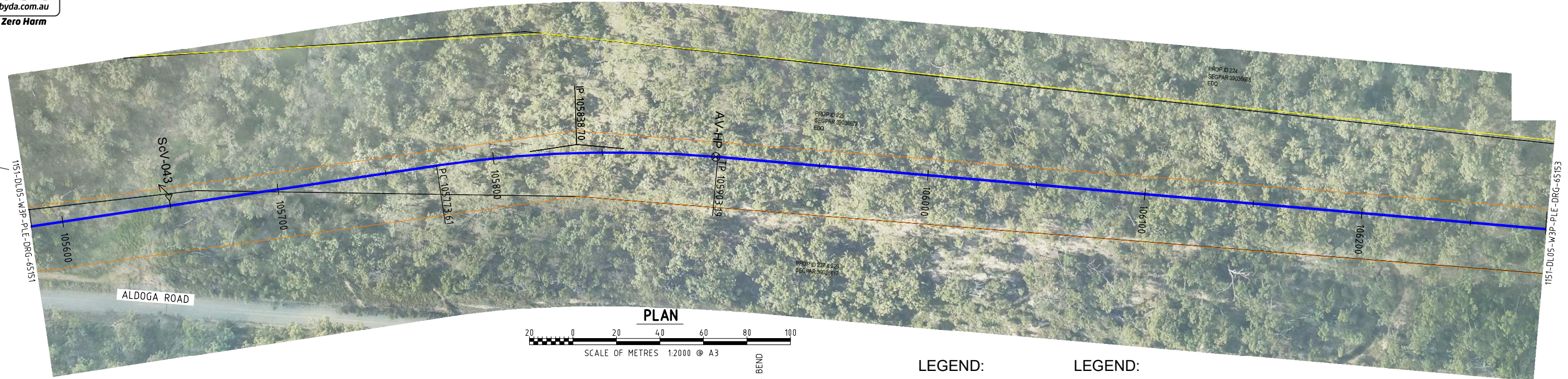
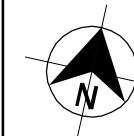
FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 104885.10-105585.10

1151-DL05-W3P-PL-DRG-65151	PROJECT No.	SIZE	DRAWING No.	SCALE	REV
	GAWB #	A3	XXX-X-XXXX	AS NOTED	1

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
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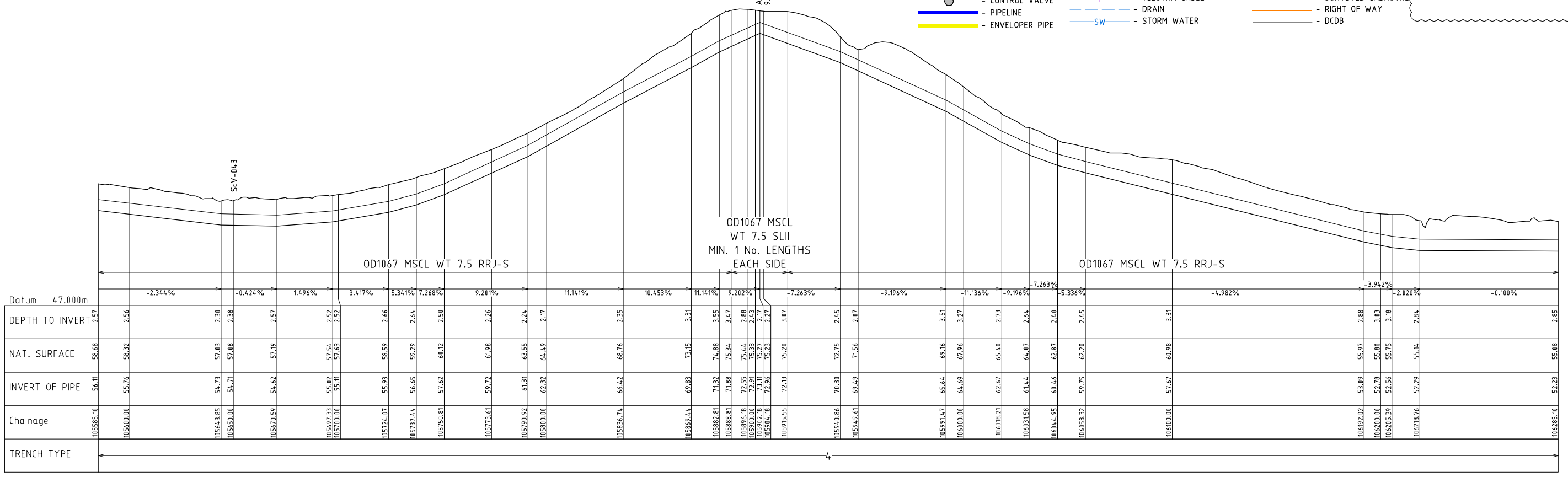


FOR TRENCH STOP DETAILS REFER PROJECT NOTES

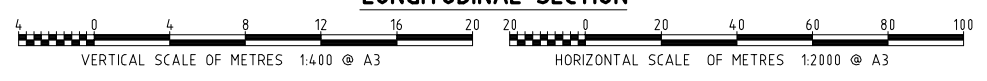
- LEGEND: PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE

- LEGEND: EXISTING:**
- FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELSTRA CABLE
 - DRAIN
 - STORM WATER

- WATER OTHER
- SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB
- CONSTRUCTION ZONES
- LICENSED AREAS



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *Peter Semianiw* DATE: 26/09/23

ISSUED FOR CONSTRUCTION



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0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goodson Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 105585.10-106285.10

1151-DL05-W3P-PL-DRG-65152

DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23
ACCEPTANCE BY		
RPEQ APPROVAL		
GAWB ACCEPTANCE		

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PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1



LEGEND:
PROPOSED:

- ⊗ - AIR VALVE
- ▽ - SCOUR VALVE
- ⊖ - ISOLATION VALVE
- ⊙ - CONTROL VALVE
- - PIPELINE
- - ENVELOPER PIPE

LEGEND:
EXISTING:

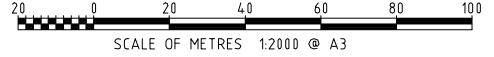
- / — - FENCE
- G — GAS
- E — ELECT'L POWER (OH or UG)
- T — TELSTRA CABLE
- — DRAIN
- SW — STORM WATER

- W — WATER OTHER
- S — SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB

CONSTRUCTION ZONES
LICENSED AREAS



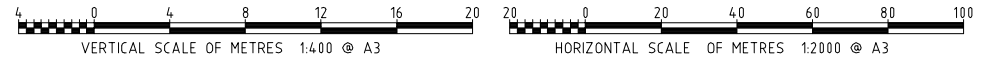
PLAN



FOR TRENCH STOP DETAILS
REFER PROJECT NOTES

Chainage	106285.10	106298.98	106310.00	106352.46	106360.13	106400.00	106510.00	106579.39	106600.00	106662.77	106669.77	106683.14	106710.00	106776.22	106793.67	106800.00	106860.52	106873.89	106914.00	106985.10
Datum	45.000m																			
DEPTH TO INVERT	2.85	2.51	2.50	3.14	2.17	2.88	3.19	3.78	3.63	2.20	2.75	2.75	2.58	2.23	2.17	2.25	2.62	2.31	2.73	2.82
NAT. SURFACE	55.88	54.73	54.69	54.46	53.49	54.25	54.69	55.37	55.24	53.89	54.44	54.56	54.53	54.80	54.88	54.91	54.57	54.56	55.68	56.30
INVERT OF PIPE	52.23	52.21	52.20	51.32	51.33	51.38	51.49	51.59	51.61	51.69	51.69	51.80	51.94	52.57	52.71	52.66	52.16	52.26	52.95	53.33
TRENCH TYPE																				

LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *[Signature]* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION



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Gladstone Area Water Board

136 Goondoon Street Gladstone Q 4680 PO Box 446 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DRAWN BY: TED ALVARADO 26/09/23
DESIGNED BY: MICHAEL MARIES 26/09/23
REVIEWED BY: PETER SEMIANIW 26/09/23

FITZROY TO GLADSTONE PIPELINE PROJECT
DL05 PIPELINE CH 106285.10-106985.10

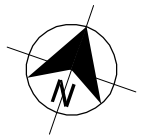
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INITIALS SHOWING (W) AS TERIKS INDICATE ORIGINAL SIGNATURE HAS BEEN SIGNED OFF AS PER DATE INDICATED

1151-DL05-W3P-PL-DRG-65153	PROJECT No.	SIZE	DRAWING No.	SCALE	REV
	GAWB #	A3	XXX-X-XXXX	AS NOTED	1

DO NOT SCALE



- LEGEND: PROPOSED:**
- ⊗ - AIR VALVE
 - ▽ - SCOUR VALVE
 - - ISOLATION VALVE
 - ⊙ - CONTROL VALVE
 - - PIPELINE
 - - ENVELOPER PIPE
- LEGEND: EXISTING:**
- / — - FENCE
 - G - GAS
 - E - ELECT'L POWER (OH or UG)
 - T - TELSTRA CABLE
 - - DRAIN
 - SW - STORM WATER
- W - WATER OTHER
 - S - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCDB
- CONSTRUCTION ZONES (dashed yellow box)
- LICENSED AREAS (hatched red box)



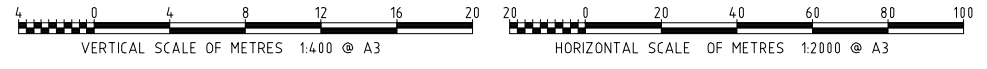
PLAN



FOR TRENCH STOP DETAILS REFER PROJECT NOTES

Stationing	Grade (%)	DEPTH TO INVERT	NAT. SURFACE	INVERT OF PIPE	Chainage	TRENCH TYPE
106985.10	0.754%	2.82	56.69	53.87	106985.10	4
107000.00	2.621%	2.29	56.27	53.98	107000.00	1
107034.33		2.47	56.71	54.24	107034.33	4
107100.00	0.700%	2.12	57.75	55.64	107100.00	1
107110.00		2.30	58.02	55.72	107110.00	4
107174.85		2.64	58.88	56.25	107174.85	1
107179.70		2.83	59.11	56.28	107179.70	4
107195.00		2.57	58.97	56.39	107195.00	1
107200.00		2.82	59.24	56.42	107200.00	4
107214.37		2.62	59.15	56.52	107214.37	1
107287.45		2.47	59.50	57.03	107287.45	4
107300.00		2.14	59.26	57.12	107300.00	1
107314.12		2.47	59.88	57.41	107314.12	4
107355.21		2.38	59.89	57.51	107355.21	1
107400.00	2.621%	2.31	61.00	58.68	107400.00	4
107408.67		2.41	61.32	58.91	107408.67	1
107448.80	4.543%	3.00	63.74	60.73	107448.80	4
107462.17	2.621%	3.10	64.18	61.08	107462.17	1
107500.00	0.700%	2.54	63.88	61.35	107500.00	4
107542.39	2.630%	3.10	64.75	61.65	107542.39	1
107555.76	4.552%	2.14	64.14	62.00	107555.76	4
107582.50		2.72	65.94	63.21	107582.50	1
107600.00	2.630%	2.50	66.18	63.67	107600.00	4
107618.53		2.33	66.49	64.16	107618.53	1
107649.35	0.709%	2.20	67.18	64.97	107649.35	4
107652.61		2.43	67.43	65.08	107652.61	1
107662.72		2.72	67.79	65.07	107662.72	4
107685.10	-1.211%	2.20	67.00	64.80	107685.10	1

LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: [Signature] DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION

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DO NOT SCALE

Gladstone Area Water Board

136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

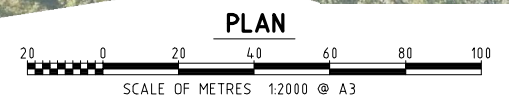
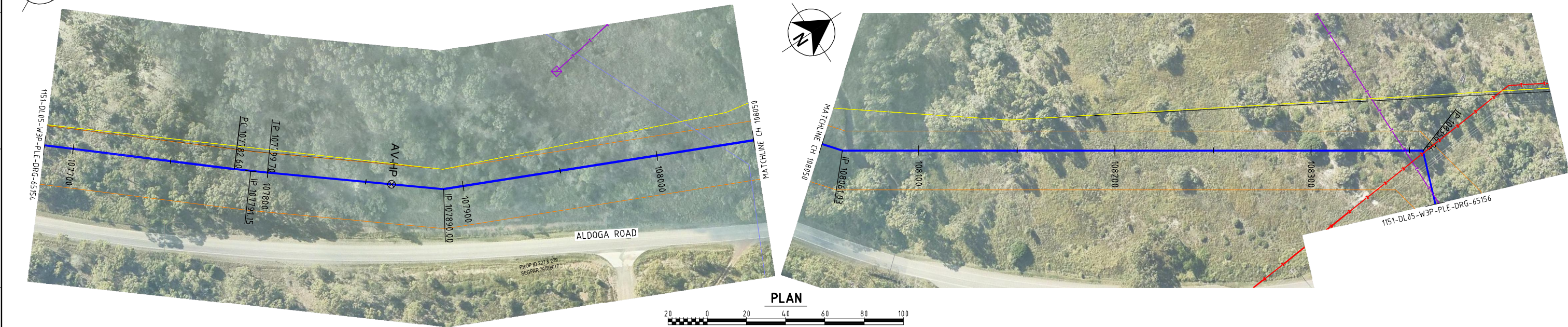
FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 106985.10-107685.10

1151-DL05-W3P-PL-DRG-65154

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1



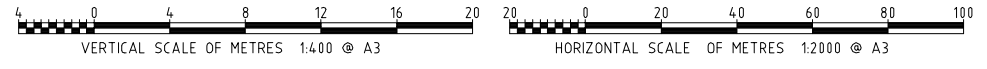
- LEGEND: PROPOSED:**
- ⊗ - AIR VALVE
 - ▽ - SCOUR VALVE
 - ⊙ - ISOLATION VALVE
 - ⊖ - CONTROL VALVE
 - - PIPELINE
 - - ENVELOPER PIPE
- LEGEND: EXISTING:**
- - FENCE
 - G - GAS
 - E - ELECT'L POWER (OH or UG)
 - T - TELSTRA CABLE
 - - DRAIN
 - SW - STORM WATER
- LEGEND: OTHER:**
- W - WATER OTHER
 - S - SEWER PIPE
 - - 100 ARI FLOOD LEVEL
 - - SURVEYED CADASTRE
 - - RIGHT OF WAY
 - - DCDB
- LEGEND: CONSTRUCTION ZONES:**
- - CONSTRUCTION ZONES
 - - LICENSED AREAS



FOR TRENCH STOP DETAILS REFER PROJECT NOTES

WATERCOURSE		AIR VALVE		14.26 BEND		WATERCOURSE		17.52 BEND		TELSTRA OPTIC FIBRE CABLE		OH POWER		76.86 BEND		TELSTRA OPTIC FIBRE CABLE				
OD1067 MSCL WT 7.5 RRJ-S		OD1067 MSCL WT 7.5 SLII MIN. 1 No. LENGTHS EACH SIDE		OD1067 MSCL WT 7.5 RRJ-S		OD1067 MSCL WT 7.5 SLII MIN. 2 No. LENGTHS EACH SIDE		OD1067 MSCL WT 7.5 RRJ-S		OD1067 MSCL WT 7.5 SLII MIN. 16 No. LENGTHS EACH SIDE										
Datum	54.000m	-1.211%	-3.131%	-5.055%	-3.131%	-1.211%	0.709%	2.630%	2.630%	-0.051%	-1.525%	-5.055%	-3.131%	-1.211%	0.709%	2.571%	2.571%	0.709%	3.964%	
DEPTH TO INVERT	67.80	67.20	67.24	65.81	65.88	65.11	65.77	65.21	65.21	65.23	65.19	65.18	65.18	65.18	65.18	65.18	65.18	65.18	65.18	
NAT. SURFACE	64.80	64.74	66.72	65.55	65.88	65.11	65.77	65.21	65.21	65.23	65.19	65.18	65.18	65.18	65.18	65.18	65.18	65.18	65.18	
INVERT OF PIPE	64.80	64.41	66.72	65.55	65.88	65.11	65.77	65.21	65.21	65.23	65.19	65.18	65.18	65.18	65.18	65.18	65.18	65.18	65.18	
Chainage	107685.10	107689.46	107700.00	107729.57	107742.94	107756.31	107769.68	107783.05	107796.42	107809.79	107823.16	107836.53	107849.90	107863.27	107876.64	107890.01	107903.38	107916.75	107930.12	
TRENCH TYPE	4		3		4		3		4		3		4		3		4		3	

LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *[Signature]* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION



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0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goodwood Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

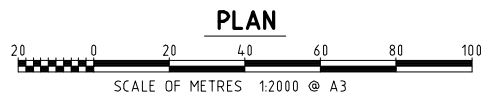
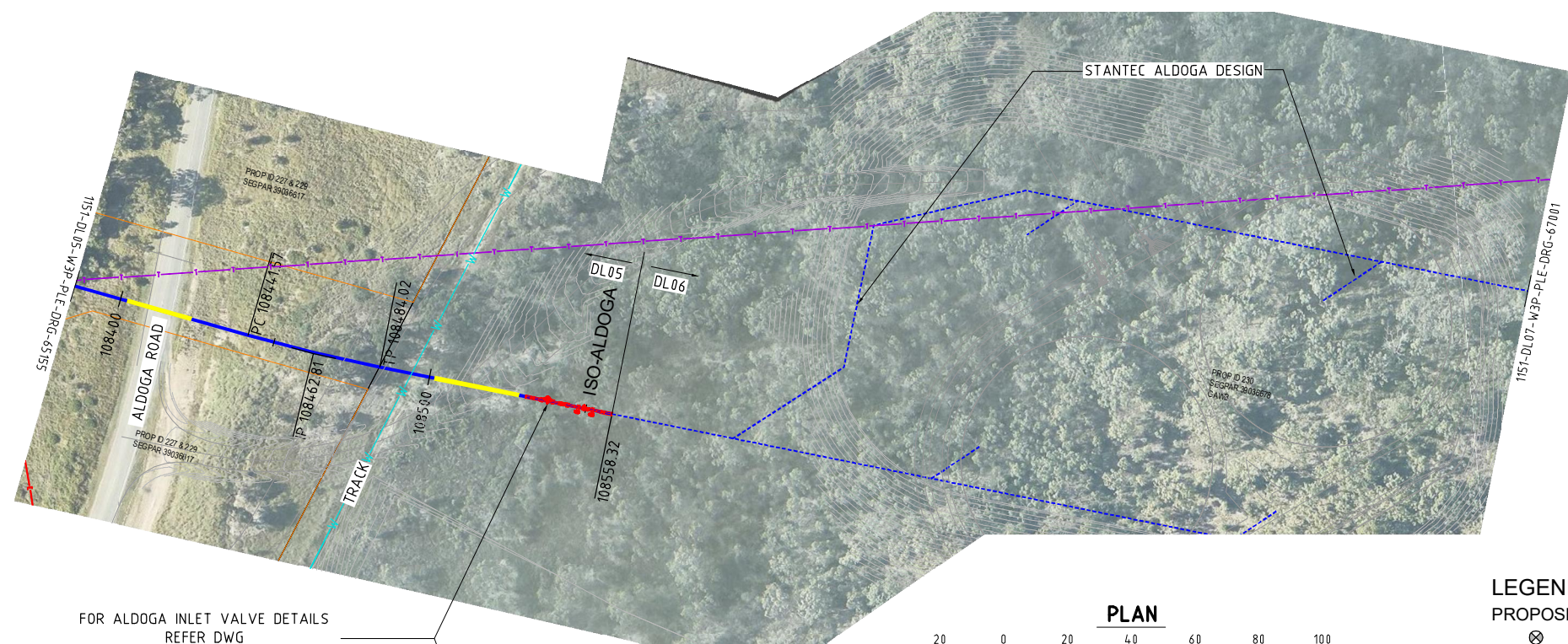
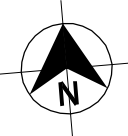
FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 107685.10-108385.10

1151-DL05-W3P-PLE-DRG-65155

DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23
ACCEPTANCE BY		
RPEQ APPROVAL		
GAWB ACCEPTANCE		

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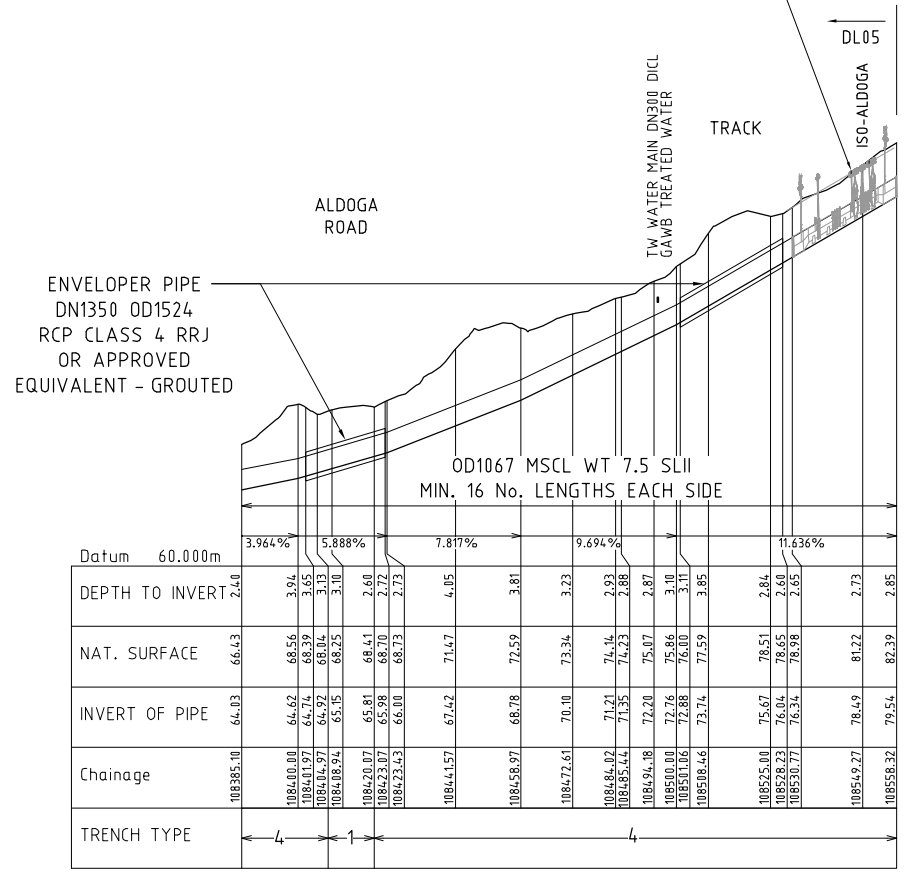
PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1



- LEGEND:**
PROPOSED:
 ⊗ - AIR VALVE
 ∇ - SCOUR VALVE
 ⊗ - ISOLATION VALVE
 ○ - CONTROL VALVE
 — - PIPELINE
 — - ENVELOPER PIPE

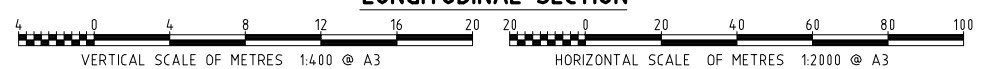
- LEGEND:**
EXISTING:
 — / — - FENCE
 G — - GAS
 E — - ELECT'L POWER (OH or UG)
 T — - TELSTRA CABLE
 — - DRAIN
 SW — - STORM WATER
 W — - WATER OTHER
 S — - SEWER PIPE
 — - 100 ARI FLOOD LEVEL
 — - SURVEYED CADASTRE
 — - RIGHT OF WAY
 — - DCDB
- CONSTRUCTION ZONES
 - LICENSED AREAS

FOR ALDOGA INLET VALVE DETAILS
 REFER DWG
 1151-DL05-W3P-CIV-DRG-25002



FOR TRENCH STOP DETAILS
 REFER PROJECT NOTES

LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEP NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *Peter Semianiw* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	26/09/23	LEGEND CHANGED	TA	MM	PS			
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
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FITZROY TO GLADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 108385.10-108558.32

1151-DL05-W3P-PL-DRG-65156

DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23
ACCEPTANCE BY		
RPEP APPROVAL		
GAWB ACCEPTANCE		

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PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1

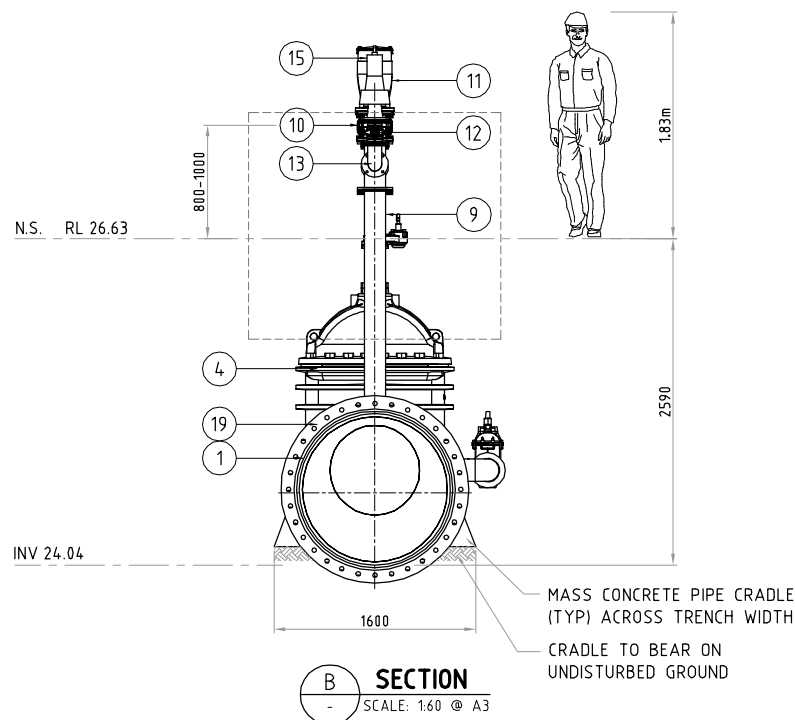
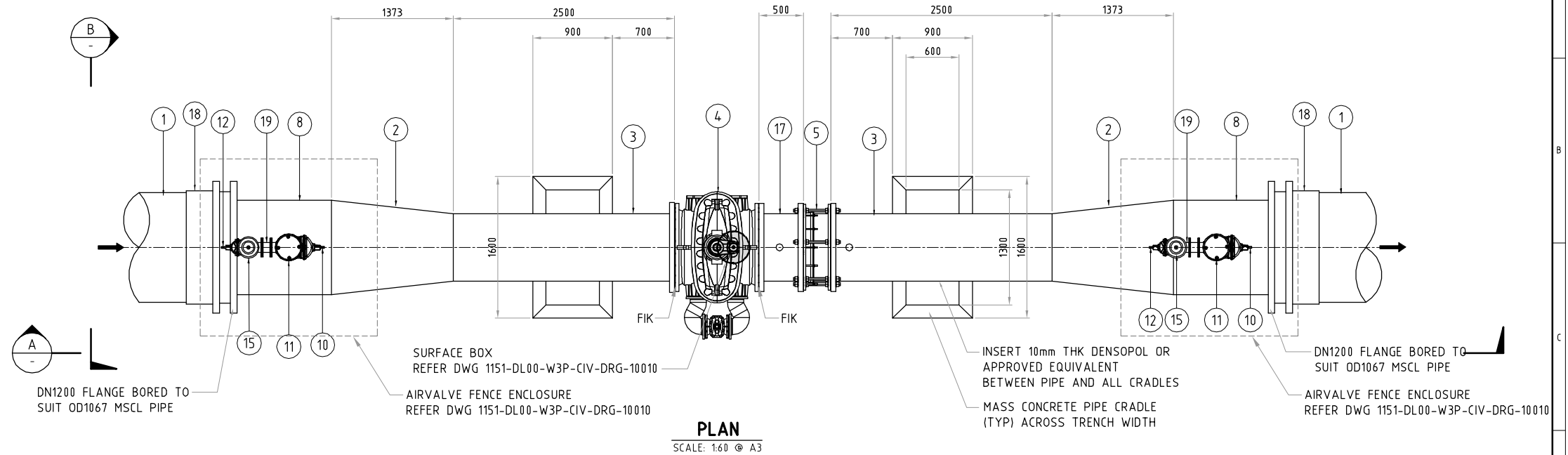
DO NOT SCALE



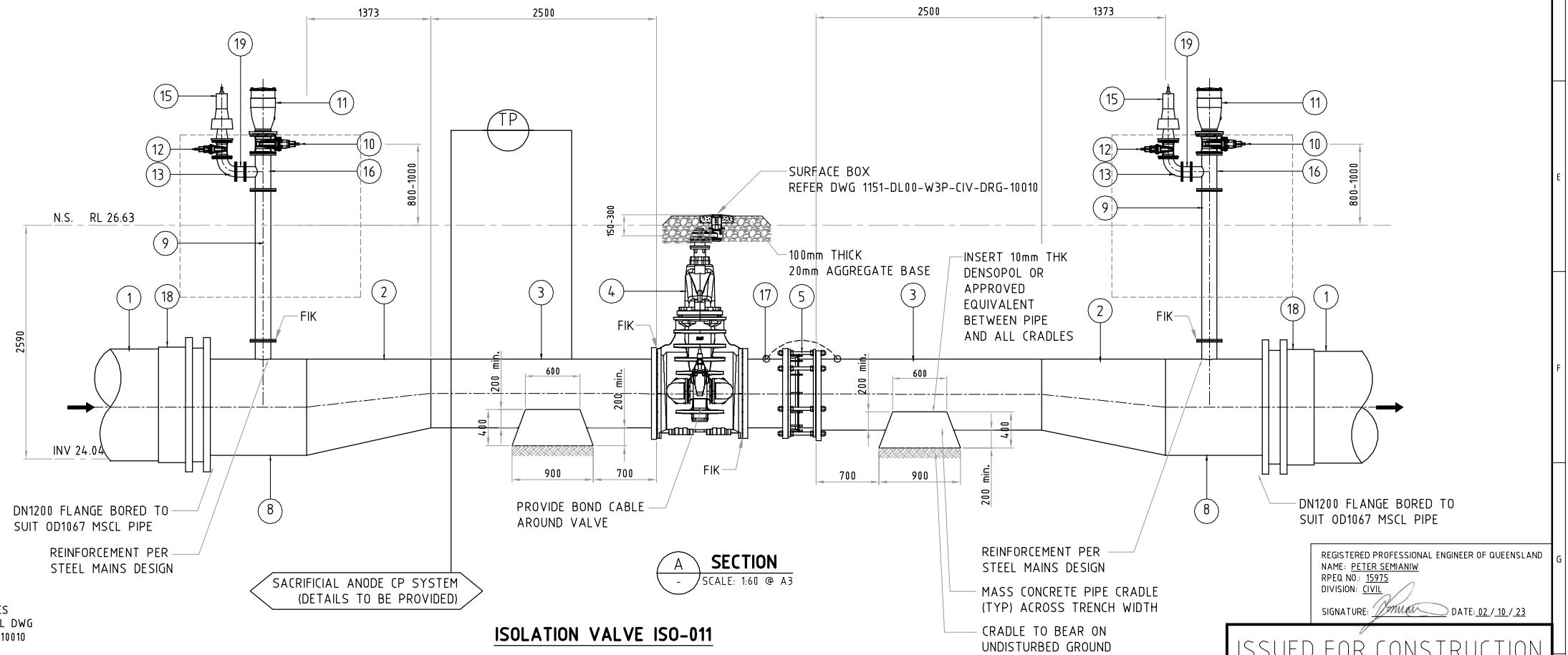
PIPEWORK SCHEDULE

ITEM	DESCRIPTION	QTY	PN RATING	MATERIAL
1	DN1200 HDPE PIPE	2	PN14.2	HDPE
2	OD1067-DN750 WELDED ECCENTRIC REDUCER	2	PN16	MSCL
3	DN750/DN150 WELD-FL-FL TEE	2	PN16	MSCL
4	DN750 FLANGED GATE VALVE W/ INTEGRAL BYPASS & GEARBOX	1	PN16	DIEL
5	DN750 DISMANTLING JOINT (THRUST TYPE)	1	PN16	DIEL
6	NOT IN USE	-	-	-
7	NOT IN USE	-	-	-
8	OD1067/DN150 WELD-FL-FL TEE	2	PN16	MSCL
9	DN150 FLANGED PIPE (LENGTH TO SUIT)	2	PN16	DIEL
10	DN150 GATE VALVE	2	PN16	DIEL
11	DN150 CSA FOX 3F RFP AIR VALVE	2	PN16	DIEL
12	DN100 FLANGED GATE VALVE	2	PN16	DIEL
13	DN100 FLANGED 90° BEND	2	PN16	DIEL
14	NOT IN USE	-	-	-
15	DN100 CSA MOD VFCA RELIEF VALVE	2	PN16	DIEL
16	DN150/DN100 FLANGED TEE	2	PN16	DIEL
17	DN750 FLANGED PIPE (500mm LONG)	1	PN16	MSCL
18	DN1200 STUB FLANGE w/ MS BACKING RING	2	PN16	HDPE/MS
19	DN100 FLANGED PIPE	2	PN16	DIEL

FIK = FLANGE INSULATION KIT
(KLINGER C4430 FIK OR APPROVED EQUIVALENT)



NOTE:
REFER TO PROJECT NOTES
REFER ENCLOSURE DETAIL DWG
1151-DL00-W3P-CIV-DRG-10010



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEP NO: 15975
DIVISION: CIVIL
SIGNATURE: [Signature] DATE: 02/10/23

ISSUED FOR CONSTRUCTION



Gladstone Area Water Board

136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 STANDARD DETAILS
ISOLATION VALVE ASSEMBLY

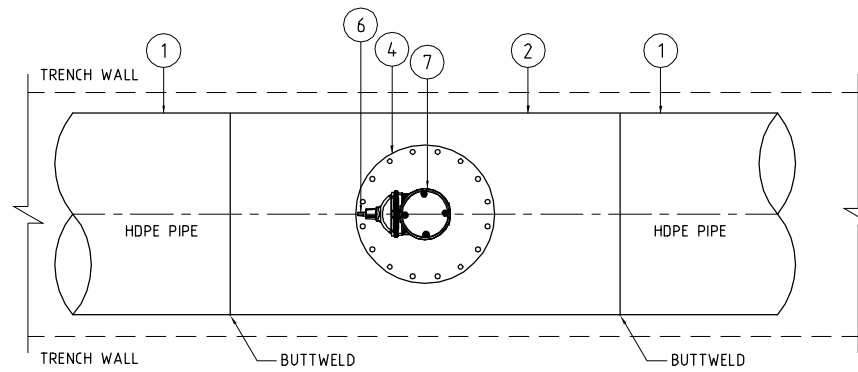
1151-DL07-W3P-CIV-DRG-17001

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PROJECT No. GAWB # A3 DRAWING No. XXX-X-XXXX SCALE AS NOTED REV 0

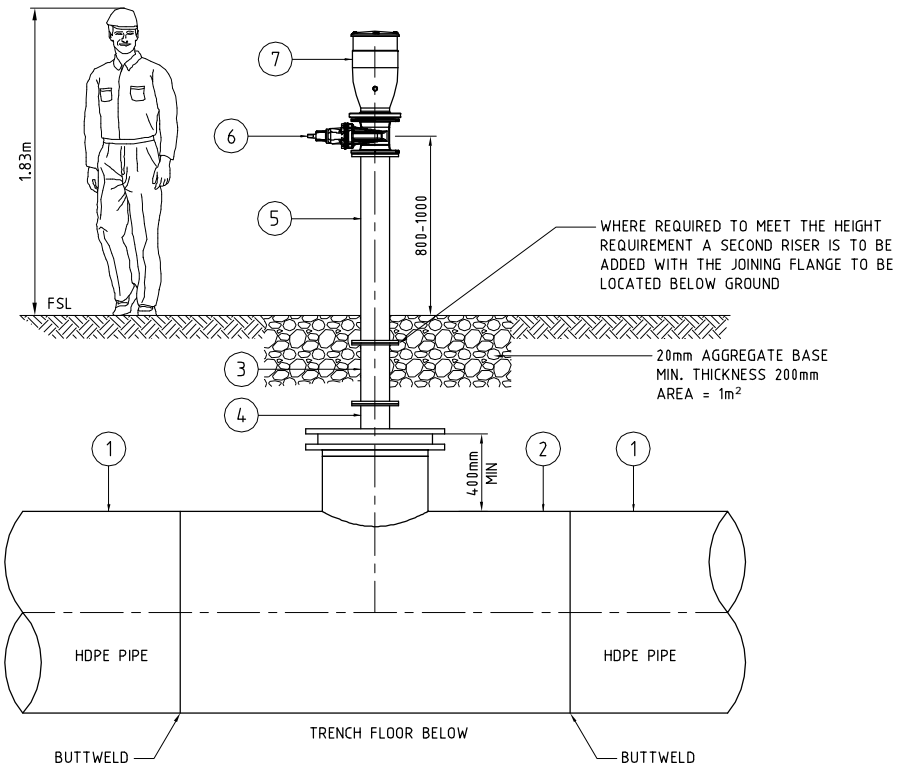
REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
0	02/10/23	ISSUED FOR CONSTRUCTION	TA	AS	PS			

DO NOT SCALE



AIR VALVE INSTALLATION PLAN

N.T.S.



AIR VALVE INSTALLATION - HDPE ABOVE GROUND

N.T.S.

AIR VALVE PIPEWORK SCHEDULE

ITEM	MATERIAL	DESCRIPTION	PN RATING	DIAMETER
1	HDPE	DN1200 PIPE	PN14.2	DN1200
2	HDPE	DN1200 x 600 FABRICATED WE-WE FL TEE w/ BACKING FLANGE	PN14.2	DN1200/600
3	DIEL	DN150 DIEL OR MSCL RISER PIPE, LENGTH TO SUIT	PN16	DN150
4	MSEL	DN600 BLIND FLANGE WITH DN150 FLANGED RISER	PN16	DN150
5	DIEL	DN150 DIEL OR MSCL RISER PIPE, LENGTH TO SUIT	PN16	DN150
6	DIEL	DN150 GATE VALVE	PN16	DN150
7	DIEL	DN150 CSA FOX 3F RFP AIR VALVE FLANGED	PN16	DN150

NOTE:

REFER TO PROJECT NOTES
REFER ENCLOSURE DETAIL DWG
1151-DL00-W3P-CIV-DRG-10010

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *[Signature]* DATE: 02/10/23

ISSUED FOR CONSTRUCTION



Gladstone Area Water Board

136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DESIGNED BY: TED ALVARADO 26/09/23
DESIGNED BY: ANDREW SINN 26/09/23
REVIEWED BY: PETER SEMIANIW 26/09/23
ACCEPTANCE BY: [Signature]
RPEQ APPROVAL: [Signature]
GAWB ACCEPTANCE: [Signature]

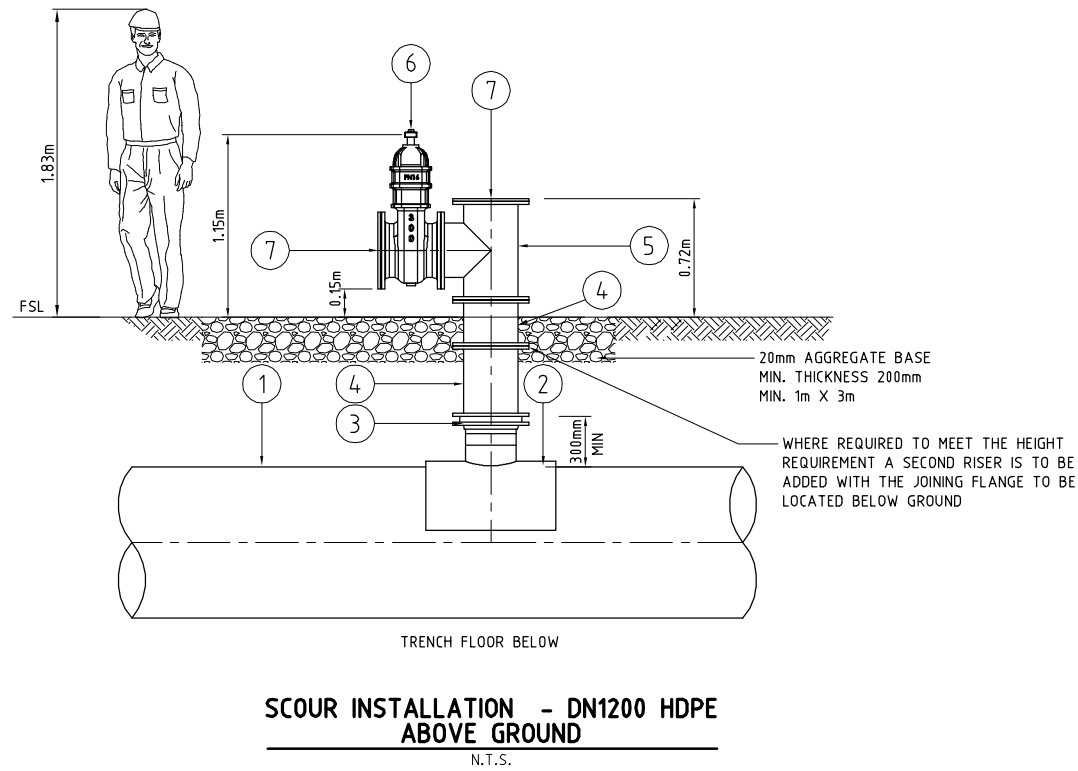
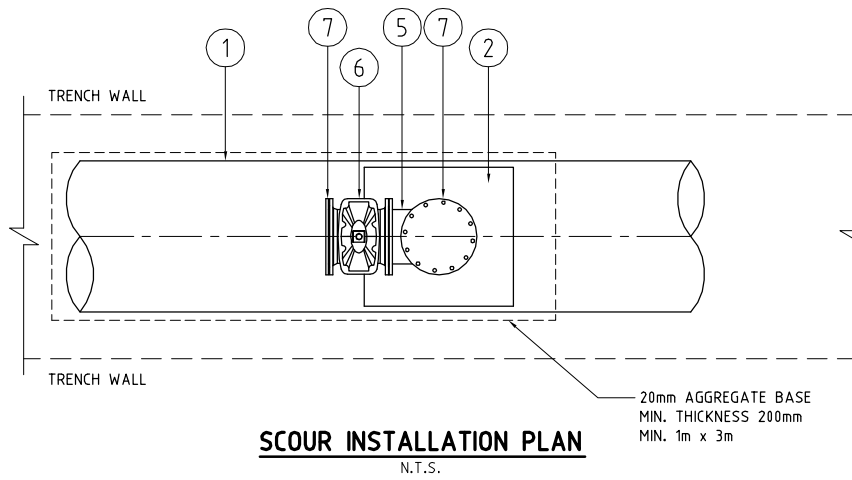
FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 STANDARD DETAILS
AIR VALVE ASSEMBLY

1151-DL07-W3P-CIV-DRG-17002
PROJECT No. GAWB # A3 DRAWING No. XXX-X-XXXX SCALE AS NOTED REV 0

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
0	02/10/23	ISSUED FOR CONSTRUCTION		TA	AS	PS		

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SCOUR PIPEWORK SCHEDULE

ITEM	MATERIAL	DESCRIPTION	PN RATING	DIAMETER
1	HDPE	DN1200 PIPE	PN14.2	DN1200
2	HDPE	OD315 PN16 PE100 EF SADDLE TO SUIT OD1200 HDPE PE112 SDR13.6	PN16	DN1200/DN315
3	-	DN315 STUB FLANGE w/ SS BACKING FLANGE	PN16	DN315/DN300
4	DIEL	DN300 FLANGED PIPE, LENGTH TO SUIT	PN16	DN300
5	DIEL	DN300 FLANGED TEE	PN16	DN300
6	DIEL	DN300 FLANGED GATE VALVE	PN16	DN300
7	DIEL	DN300 BLIND FLANGE	PN16	DN300

NOTE:
REFER TO PROJECT NOTES
REFER ENCLOSURE DETAIL DWG
1151-DL00-W3P-CIV-DRG-10010

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *Peter Semianiw* DATE: 02/10/23

ISSUED FOR CONSTRUCTION



Gladstone Area Water Board

136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DRAWN BY: TED ALVARADO 26/09/23
DESIGNED BY: ANDREW SINN 26/09/23
REVIEWED BY: PETER SEMIANIW 26/09/23
ACCEPTANCE BY: [Signature]
RPEQ APPROVAL: [Signature]
GAWB ACCEPTANCE: [Signature]

FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 STANDARD DETAILS
SCOUR ASSEMBLY

1151-DL07-W3P-CIV-DRG-17003
PROJECT No. GAWB # A3 XXX-X-XXXX SCALE AS NOTED REV 0

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
0	02/10/23	ISSUED FOR CONSTRUCTION	TA	AS	PS			

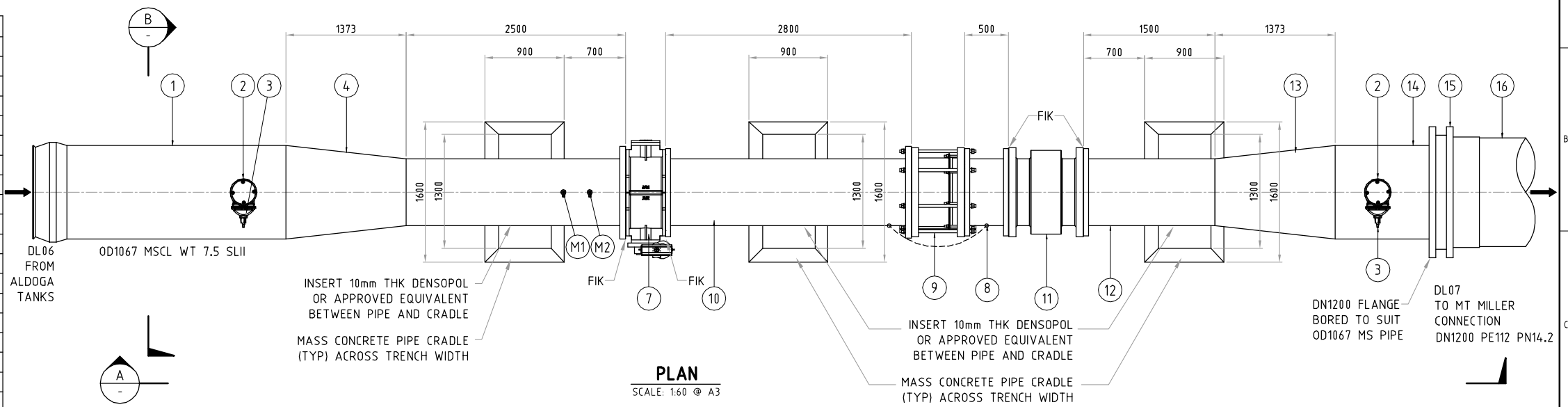
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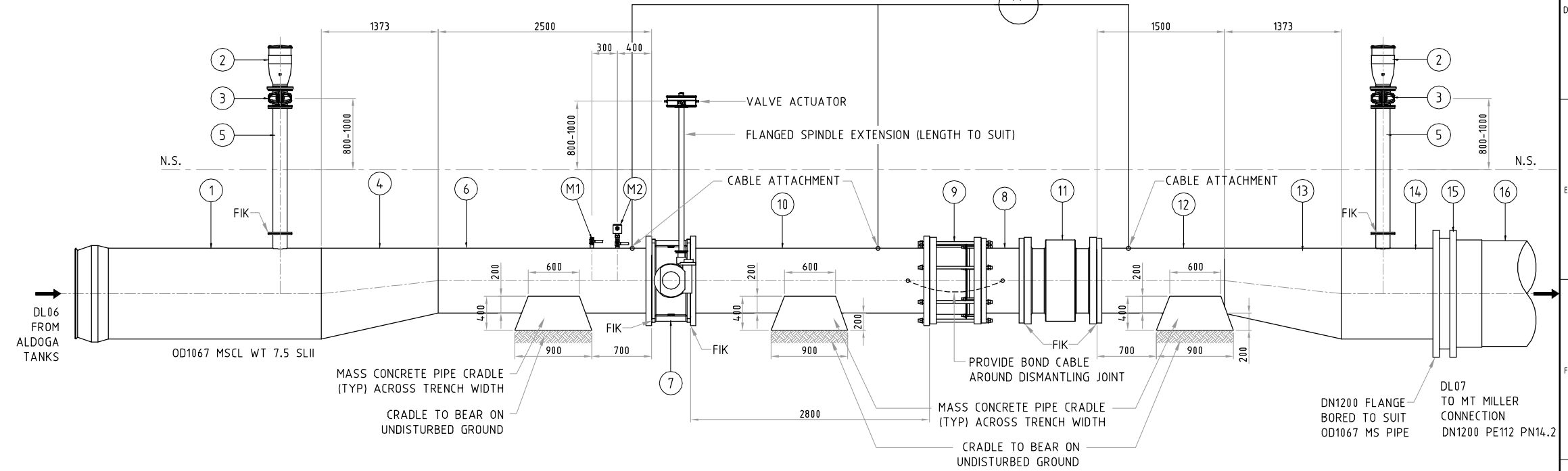
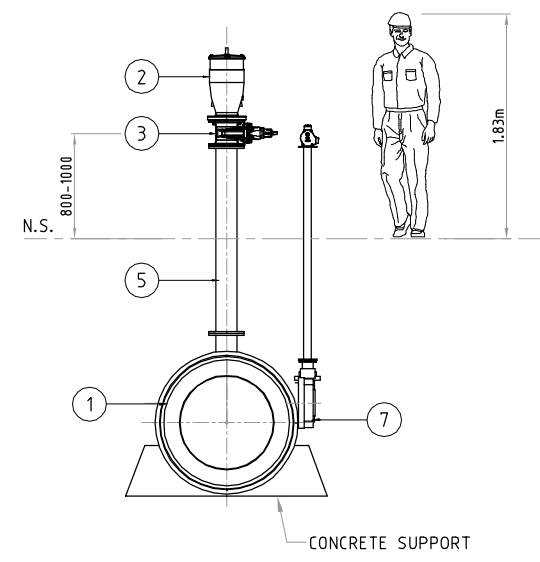


PIPEWORK SCHEDULE

ITEM	DESCRIPTION	QTY	PN RATING	MATERIAL
1	OD1067/DN150 SP-WE-FL TEE	1		MSCL
2	DN150 CSA FOX 3F RFP AIR VALVE	2	PN16	DIEL
3	DN150 GATE VALVE	2	PN16	DIEL
4	OD1067-OD762 WELDED ECCENTRIC REDUCER	1	-	MSCL
5	DN150 FLANGED PIPE (LENGTH TO SUIT)	2	PN16	MSCL
6	OD762 FLANGED-WELDED PIPE	1	PN16	MSCL
7	DN750 MODULATING BUTTERFLY VALVE W/ ROTORK ACTUATOR	1	PN16	DIEL
8	DN750 FLANGED PIPE (500mm LONG)	1	PN16	MSCL
9	DN750 DISMANTLING JOINT (THRUST TYPE)	1	PN16	DIEL
10	DN750 FLANGED PIPE	1	PN16	MSCL
11	DN750 FLOW METER	1	PN16	DIEL
12	DN750 FLANGED - WELDED PIPE	1	PN16	MSCL
13	OD1067-OD762 WELDED ECCENTRIC REDUCER	1	PN16	MSCL
14	OD1067/DN150 WELD-FL-FL TEE W/ DN1200 FLANGE	1	PN16	MSCL
15	DN1200 HDPE STUB FLANGE w/ MS BACKING RING	1	PN16	HDPE/MS
16	DN1200 HDPE PIPE	1	PN16	HDPE
M1	DN15 BALL VALVE PLUGGED	1		
M2	PRESSURE TRANSMITTER w/ DN15 BALL VALVE	1		



RUN CABLES UNDERGROUND AND TERMINATE AT TEST POINT (TP). PIPE CONTINUITY TO BE PROVIDED BY CABLE BONDS AT TP FOR FUTURE MONITORING.



B SECTION
SCALE: 1:60 @ A3

A SECTION
SCALE: 1:60 @ A3

NOTE:
REFER TO PROJECT NOTES
REFER ENCLOSURE DETAIL DRG 1151-DL00-W3P-CIV-DRG-10010

FIK = FLANGE INSULATION KIT
(KLINGER C4430 FIK OR APPROVED EQUIVALENT)

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *[Signature]* DATE: 02/10/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
0	02/10/23	ISSUED FOR CONSTRUCTION						



Gladstone Area Water Board
136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DESIGNED BY: TED ALVARADO 26/09/23
 DESIGNED BY: ANDREW SINN 26/09/23
 REVIEWED BY: PETER SEMIANIW 26/09/23

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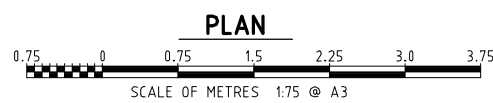
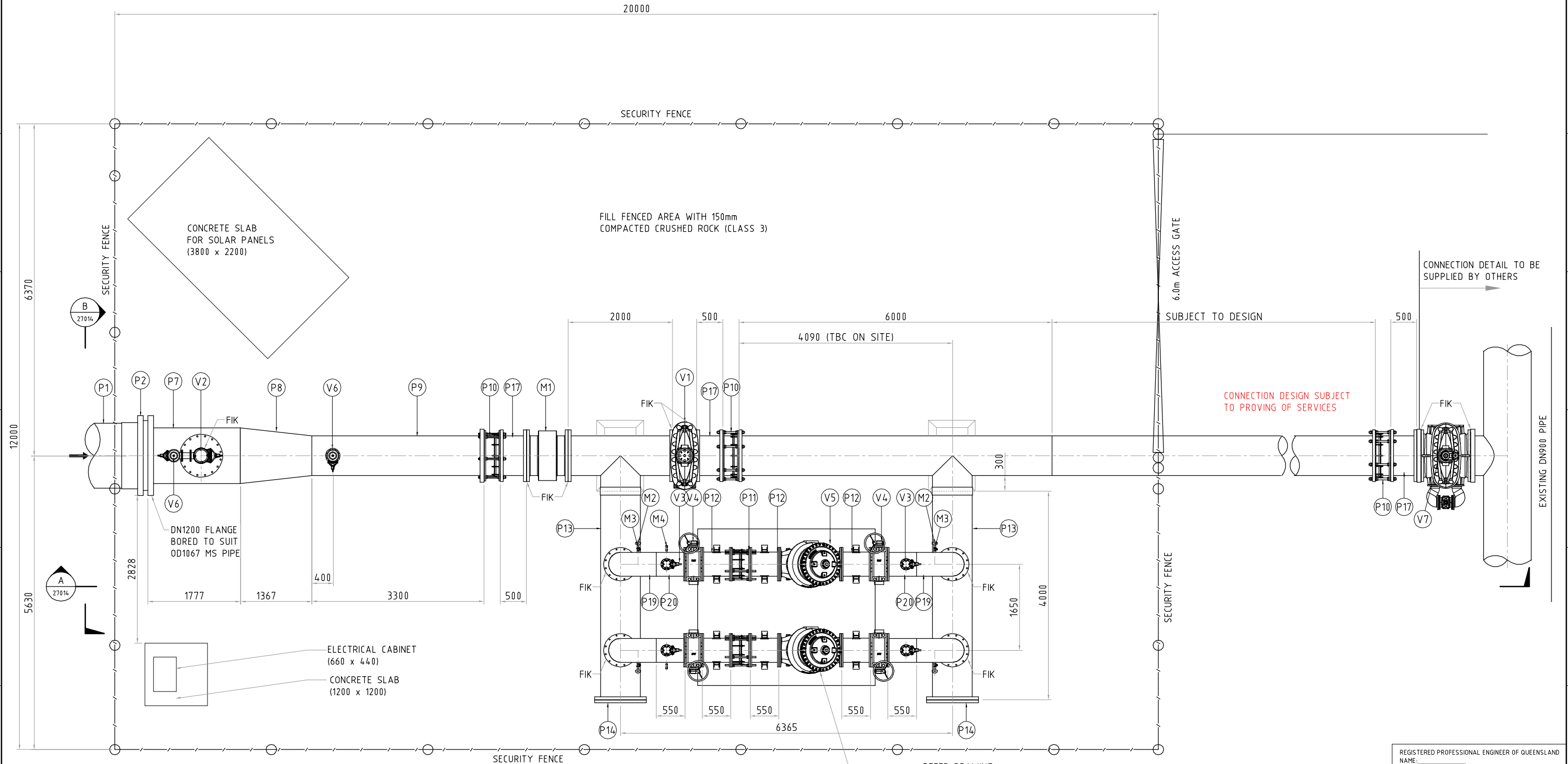
ACCEPTANCE BY: [Signature]
 RPEQ APPROVAL: [Signature]
 GAWB ACCEPTANCE: [Signature]

FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 CONNECTION DETAILS
DL06/DL07 CONNECTION DETAIL

1151-DL07-W3P-CIV-DRG-27001

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	0

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REFER DRAWING
1151-DL07-W3P-CIV-DRG-27019

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RPEQ NO: _____
DIVISION: _____
SIGNATURE: _____ DATE: ____/____/____

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REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
F	31/08/23	100% SUBMISSION FOR CLIENT REVIEW	TA	AS	PS	-		
E	30/08/23	100% SUBMISSION FOR JV REVIEW	TA	AS	PS	-		
D	08/06/23	85% SUBMISSION FOR CLIENT REVIEW	TA	AS	PS	-		
C	26/05/23	85% SUBMISSION JV REVIEW	TA	AS	PS	-		
B	31/03/23	50% SUBMISSION	TA	AS	PS	-		
A	18/03/23	ISSUED FOR CLIENT REVIEW	TA	AS	PS	-		



Gladstone Area Water Board
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FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 CONNECTION DETAILS
MMP TIE IN PIPEWORK PLAN

1151-DL07-W3P-CIV-DRG-27013

DRAWN BY	TED ALVARADO	04/05/23
DESIGNED BY	ANDREW SINN	04/05/23
REVIEWED BY	PETER SEMIANIW	04/05/23

ACCEPTANCE BY: _____
RPEQ APPROVAL: _____
GAWB ACCEPTANCE: _____

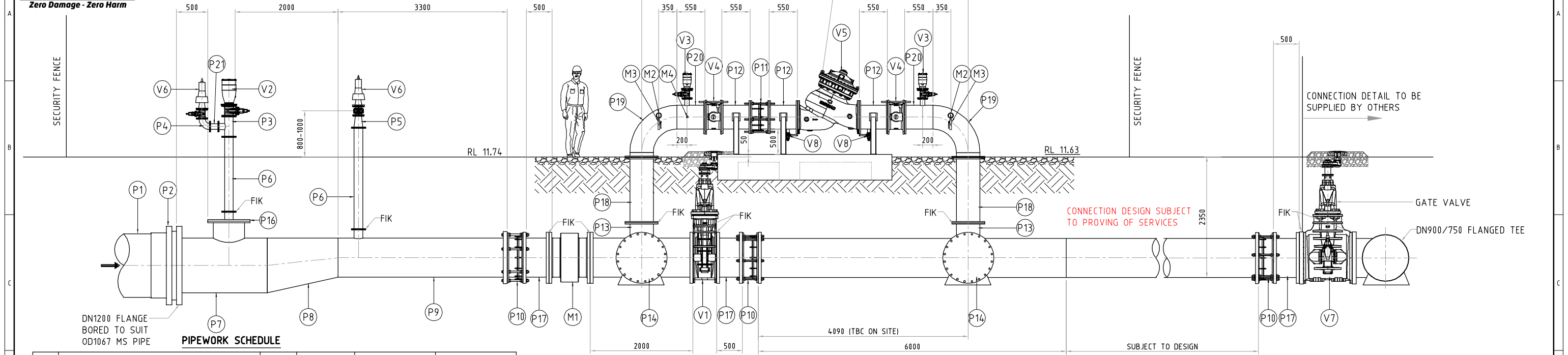
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PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	F

DO NOT SCALE



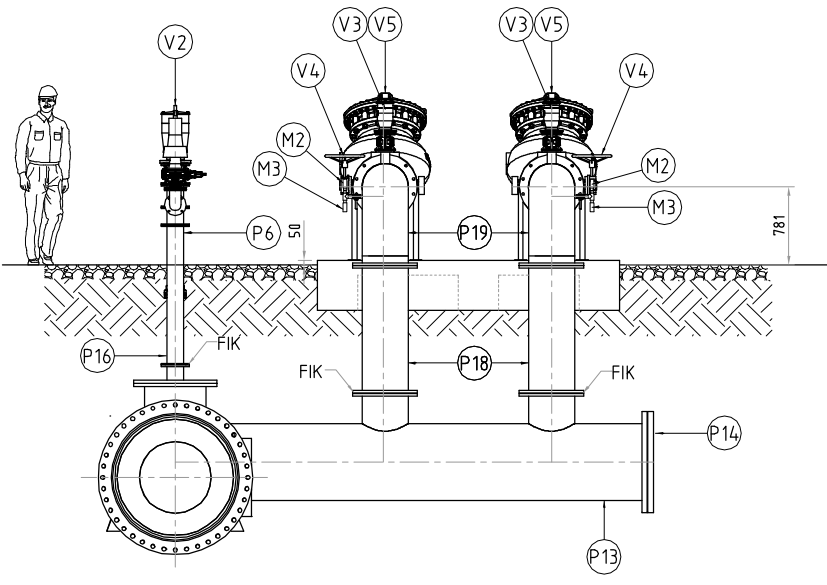
REFER DRAWING
1151-DL07-W3P-CIV-DRG-27019



PIPEWORK SCHEDULE

ITEM	DESCRIPTION	QTY	MATERIAL	REMARKS	RATING
P1	DN1200 PE112 PN14.2 PIPE	1	HDPE		PN14.2
P2	DN1200 HDPE STUB FLANGE c/w BACKING RING	1	MS		PN16
P3	DN150/DN100 FLANGED TEE	1	DIEL		PN16
P4	DN100 FLANGED 90° BEND	1	DIEL		PN16
P5	DN150/DN100 FLANGED REDUCER	2	DIEL		PN16
P6	DN150 FLANGED PIPE (LENGTH TO SUIT)	2	DIEL		PN16
P7	OD1067 / OD508 TEE FL-FL-WE (w/ 1200 FLANGE)	1	MSCL		PN16 MIN
P8	OD1067 / OD762 WE-WE ECCENTRIC REDUCER	1	MSCL		PN16 MIN
P9	OD762 x OD165 FL-FL-WE TEE	1	MSCL		PN16 MIN
P10	DN750 DISMANTLING JOINT	3	DIEL	THRUST TYPE	PN16
P11	DN450 DISMANTLING JOINT	2	DIEL	THRUST TYPE	PN16
P12	DN450 FLANGED PIPE (450mm LONG)	6	MSCL		PN16 MIN
P13	DN750/DN450/DN450 FLANGED MANIFOLD	2	MSCL		PN16 MIN
P14	DN750 BLIND FLANGE	2	MS		PN16
P15	DN900/DN750 FLANGED TEE	1	MSCL		PN16 MIN
P16	DN500 BLIND FLANGE c/w DN150 FLANGED RISER	1	MSCL		PN16 MIN
P17	DN750 FLANGED PIPE (500mm LONG)	3	MSCL		PN16 MIN
P18	DN450 FLANGED PIPE	4	MSCL		PN16 MIN
P19	DN450 FL-PE 90 BEND	4	316SS		
P20	DN450 x DN80 FL-PE-FL TEE (550mm LONG)	4	316SS		
P21	DN100 FLANGED PIPE (150mm LONG)	1	DIEL		PN16
V1	DN750 GATE VALVE c/w GEARBOX	1	DIEL		PN16
V2	DN150 CSA FOX 3F RFP AIR VALVE c/w GATE VALVE	1	DIEL		PN16
V3	DN80 CSA FOX 3F RFP AIR VALVE c/w GATE VALVE	4	DIEL		PN16
V4	DN450 FLANGED BUTTERFLY VALVE	4	DIEL	w/ POSITIVE DIC LOCK	PN16
V5	DN450 BERMAD 720 GLOBE VALVE	2	DIEL		PN16
V6	DN100 CSA MOD. VFCA RELIEF VALVE c/w GATE VALVE	2	DIEL		PN16
V7	DN750 GATE VALVE w/ INTEGRAL BYPASS & GEARBOX	1	DIEL		PN16
V8	DN50 BALL VALVE	2			PN16
M1	DN750 MAGNETIC FLOW METER	1	DIEL	BURIED	PN16
M2	PRESSURE GAUGE DN15 ON COMMON TAPPING	4			PN16
M3	PRESSURE TRANSDUCER DN15 w/ SS316 BALL VALVE	4			PN16
M4	IFM SI5000 FLOW SWITCH w/ 15mm S/S SOCKET	2			PN16

A SECTION
27013 SCALE: 1:75 @ A3



B SECTION
27013 SCALE: 1:75 @ A3

NOTE:
ALL STAINLESS STEEL PIPE TO BE SS316 SCHEDULE 10.

FIK = FLANGE INSULATION KIT
(KLINGER C4430 FIK OR APPROVED EQUIVALENT)

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: _____
RPEQ NO: _____
DIVISION: _____
SIGNATURE: _____ DATE: ___/___/___

PRELIMINARY DRAWING
NOT TO BE USED FOR CONSTRUCTION PURPOSES

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
F	31/08/23	100% SUBMISSION FOR CLIENT REVIEW	TA	AS	PS	-	-	-
E	30/08/23	100% SUBMISSION FOR JV REVIEW	TA	AS	PS	-	-	-
D	08/06/23	85% SUBMISSION FOR CLIENT REVIEW	TA	AS	PS	-	-	-
C	26/05/23	85% SUBMISSION JV REVIEW	TA	AS	PS	-	-	-
B	31/03/23	50% SUBMISSION	TA	AS	PS	-	-	-
A	18/03/23	ISSUED FOR CLIENT REVIEW	TA	AS	PS	-	-	-



Gladstone Area Water Board

136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DRAWN BY: TED ALVARADO 04/05/23
DESIGNED BY: ANDREW SINN 04/05/23
REVIEWED BY: PETER SEMIANIW 04/05/23
ACCEPTANCE BY: _____
RPEQ APPROVAL: _____
GAWB ACCEPTANCE: _____

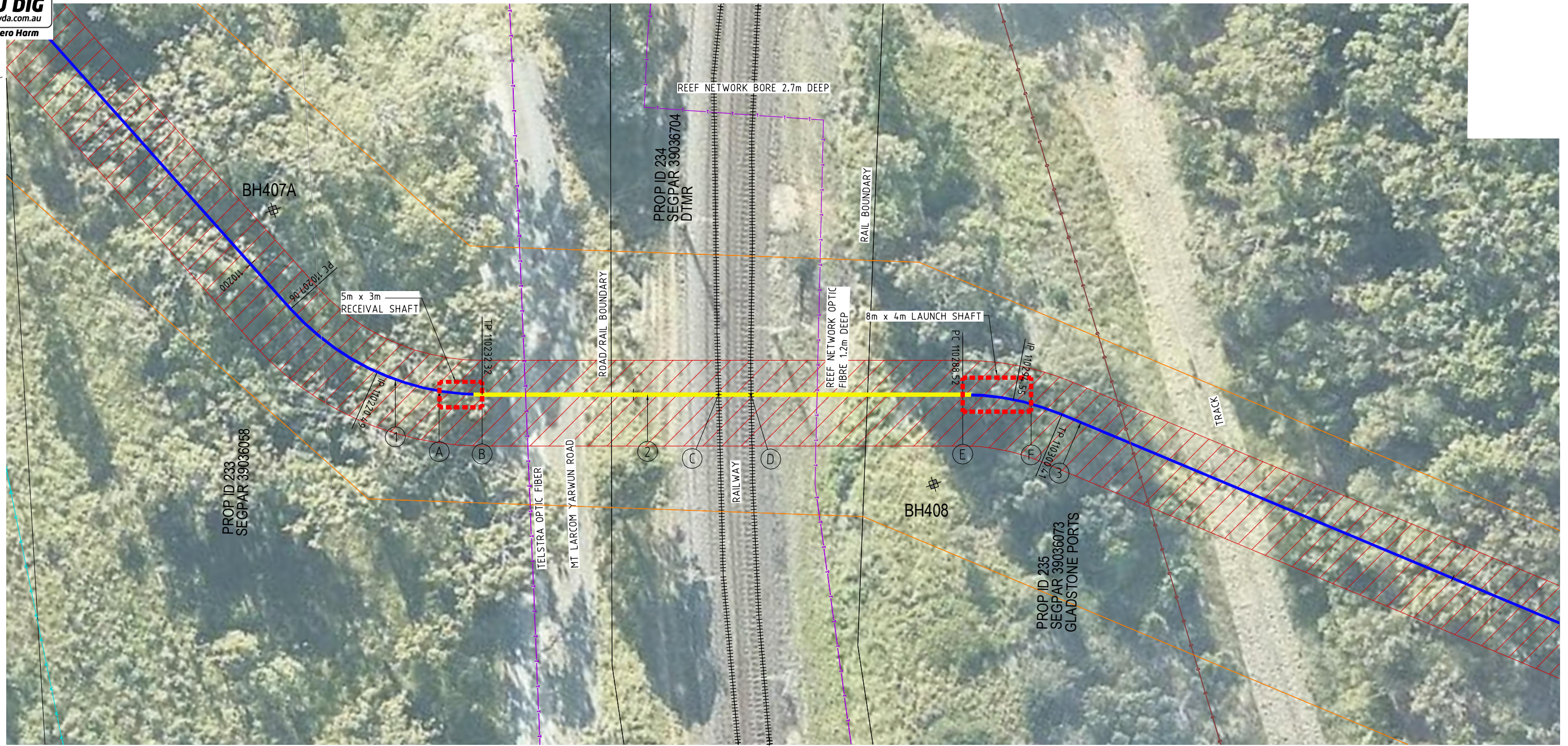
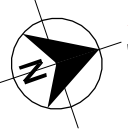
FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 CONNECTION DETAILS
MMP TIE IN PIPEWORK SECTIONS

1151-DL07-W3P-CIV-DRG-27014

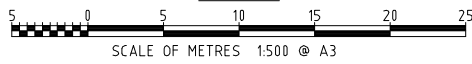
PROJECT No. GAWB # A3 DRAWING No. XXX-X-XXXX SCALE AS NOTED REV F

DO NOT SCALE

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PLAN



SETOUT COORDINATES				
POINT	EASTING	NORTHING	R.L.	DESCRIPTION
A	306810.6514	7361288.5258	-	REAR OF RECEIVAL SHAFT
B	306812.2428	7361293.2922	-	FACE OF RECEIVAL SHAFT
C	306821.0538	7361319.5131	-	CENTRE OF RAIL
D	306822.2594	7361323.1063	-	CENTRE OF RAIL
E	306830.1412	7361346.5660	-	FACE OF LAUNCH SHAFT
F	306832.6597	7361354.1593	-	REAR OF LAUNCH SHAFT

MATERIAL TAKE OFF	
1	DN1200 PE112 PN14.2
2	ENVELOPER PIPE DN1350 OD1626 RCP CLASS 4 SERIES J - GROUTED (58.20m LENGTH) TO BE CONFIRMED BY RPEQ TRENCHLESS CONTRACTOR

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *[Signature]* DATE: 27/09/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	27/09/23	REVCLOUD REMOVED	TA	MM	PS	-		
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS	-		



Gladstone Area Water Board
 136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
 MT LARCOM YARWUN ROAD NORTH COAST RAIL CRITICAL CROSSING
 GENERAL ARRANGEMENT

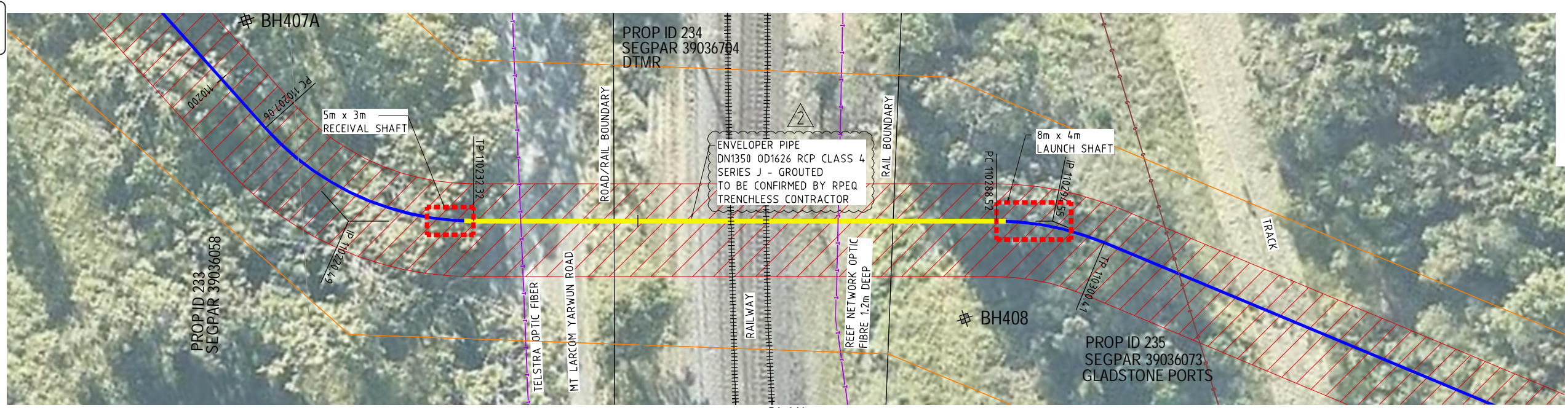
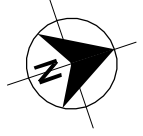
1151-DL07-W3P-CIV-DRG-37010

DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23
ACCEPTANCE BY		
RPEQ APPROVAL		
GAWB ACCEPTANCE		

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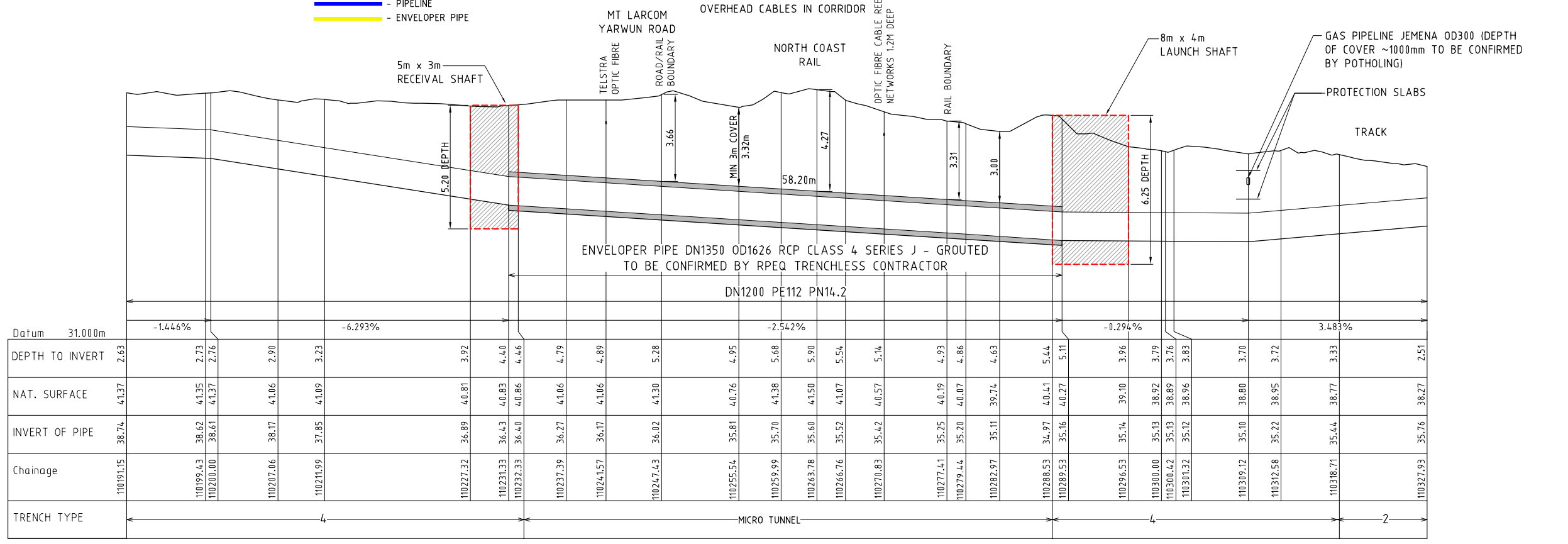
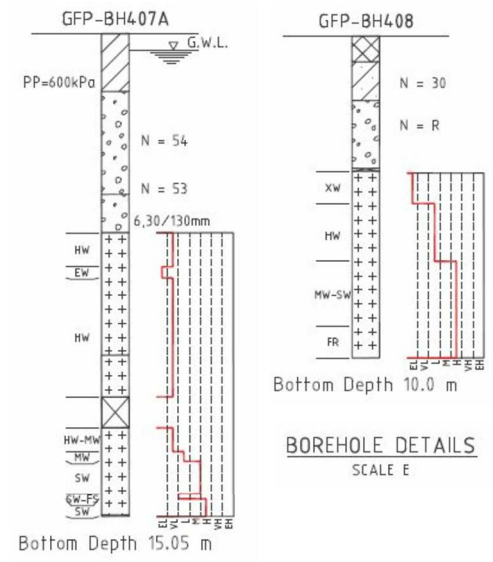
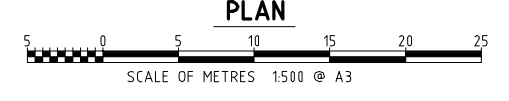
PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1

DO NOT SCALE

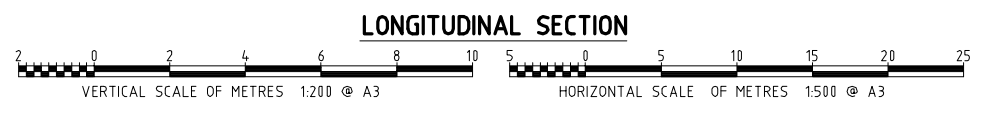


- LEGEND:**
EXISTING:
 - FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELSTRA CABLE
 - DRAIN
 - STORM WATER
 - WATER OTHER
 - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCDB

- LEGEND:**
CONSTRUCTION ZONES
 - LICENSED AREAS
 - BOREHOLE / TEST PIT
PROPOSED:
 - AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE



Datum	-1.446%		-6.293%		-2.542%		-0.294%		3.483%			
DEPTH TO INVERT	2.63											
NAT. SURFACE	4.137	4.135	4.137	4.106	4.109	4.081	4.083	4.086	4.076	4.076		
INVERT OF PIPE	38.74	38.62	38.61	38.17	37.85	36.89	36.43	36.40	35.81	35.68		
Chainage	110191.15	110199.43	110200.00	110207.06	110211.99	110227.32	110231.33	110232.33	110237.39	110241.57		
TRENCH TYPE	4				MICRO TUNNEL						4	



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: [Signature] DATE: 13/10/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
2	13/10/23	NOTE UPDATED	TA	MM	PS			
1	27/09/23	LEGEND CHANGED AND DIMENSIONS ADDED	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goodson Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
 MT LARCOM YARWUN ROAD NORTH COAST RAIL CRITICAL CROSSING DETAILS

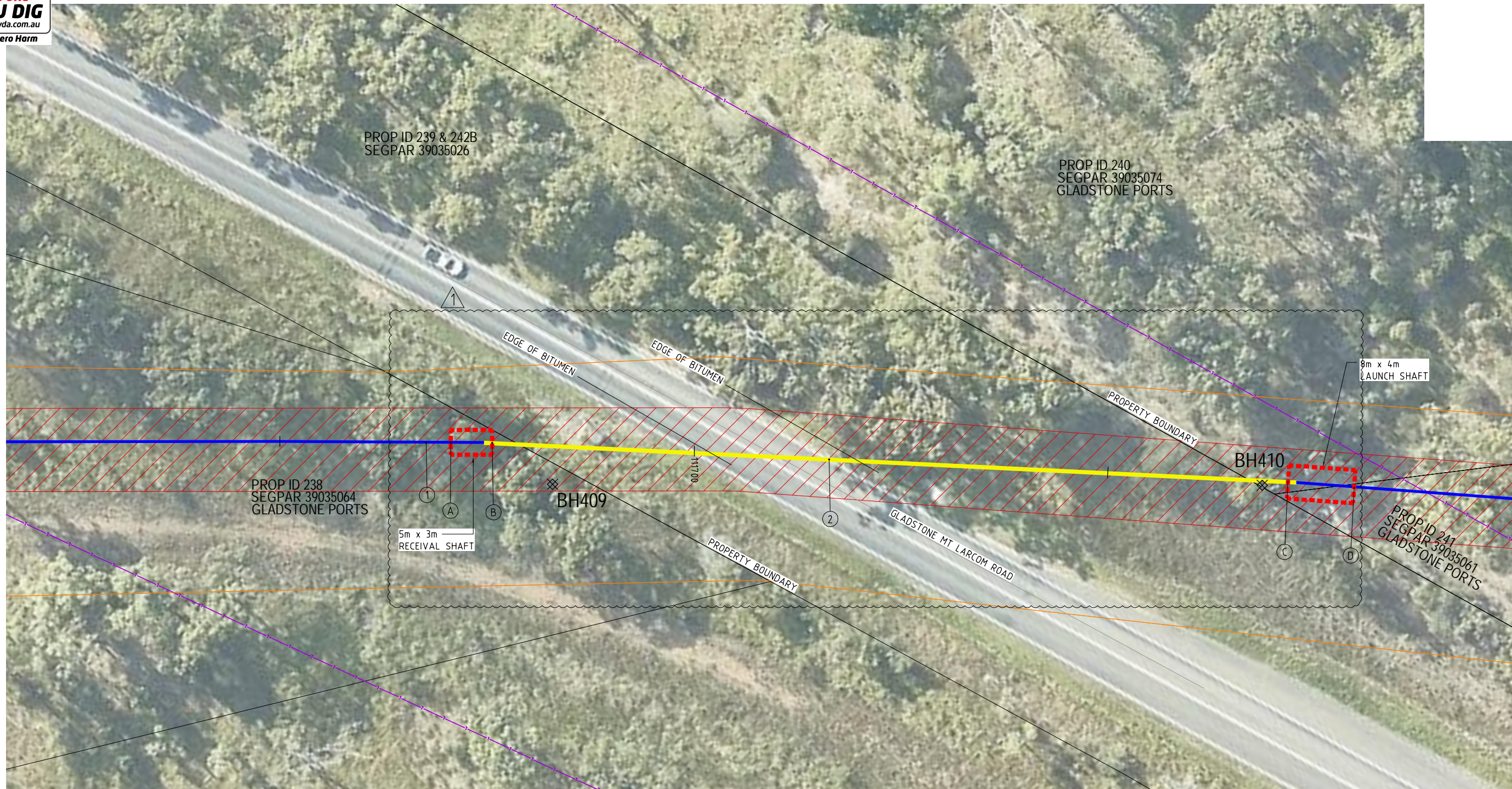
1151-DL07-W3P-CIV-DRG-37011

PROJECT No. GAWB # A3 DRAWING No. XXX-X-XXXX SCALE AS NOTED REV 2

DO NOT SCALE

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ACCEPTANCE BY: PETER SEMIANIW



PLAN



SETOUT COORDINATES				
POINT	EASTING	NORTHING	R.L.	DESCRIPTION
A	307964.7897	7362117.9693		REAR OF RECEIVER SHAFT
B	307968.2919	7362121.4617		FACE OF RECEIVER SHAFT
C	308039.9406	7362185.4829		FACE OF LAUNCH SHAFT
D	308046.0362	7362190.6644		REAR OF LAUNCH SHAFT

MATERIAL TAKE OFF	
1	DN1200 PE112 PN14.2
2	ENVELOPER PIPE DN1500 OD1800 RCP CLASS 4 SERIES J - GROUTED (98.09m LENGTH) TO BE CONFIRMED BY RPEQ TRENCHLESS CONTRACTOR

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *[Signature]* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	26/09/23	PITS MOVED BORE EXTENDED	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goodson Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

**FITZROY TO GLADSTONE PIPELINE PROJECT
 GLADSTONE MT LARCOM ROAD CRITICAL CROSSING
 GENERAL ARRANGEMENT**

1151-DL07-W3P-CIV-DRG-37020

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1

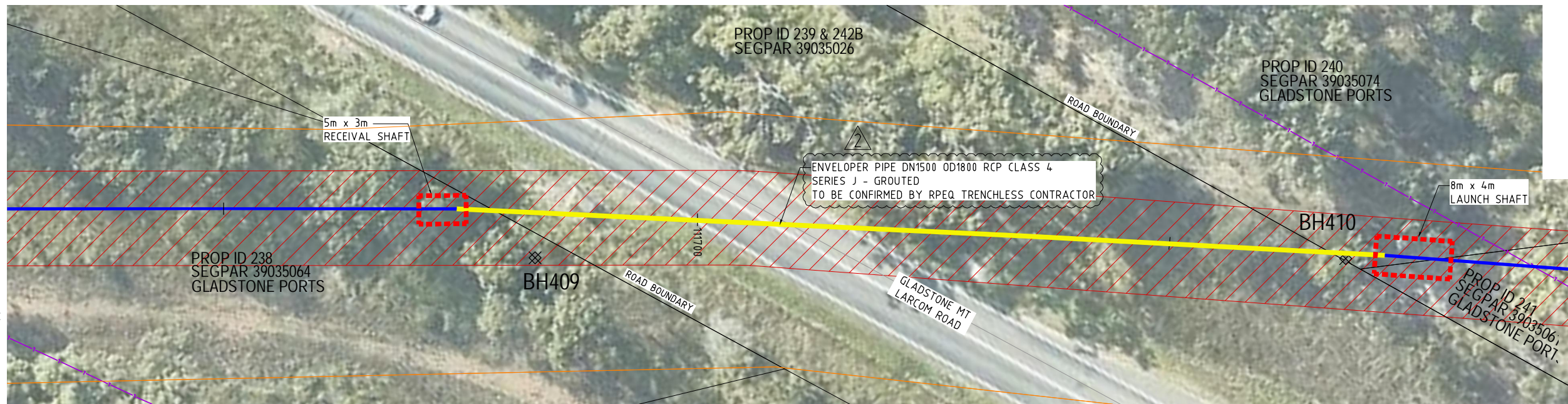
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DO NOT SCALE

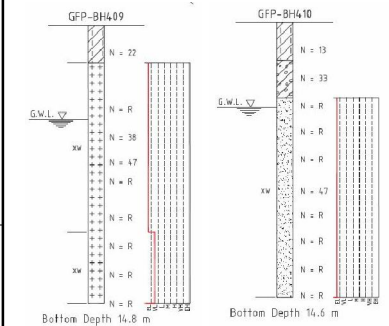


- LEGEND:**
PROPOSED:
 ⊗ - AIR VALVE
 ∇ - SCOUR VALVE
 ⊞ - ISOLATION VALVE
 ⊙ - CONTROL VALVE
 — - PIPELINE
 — - ENVELOPER PIPE

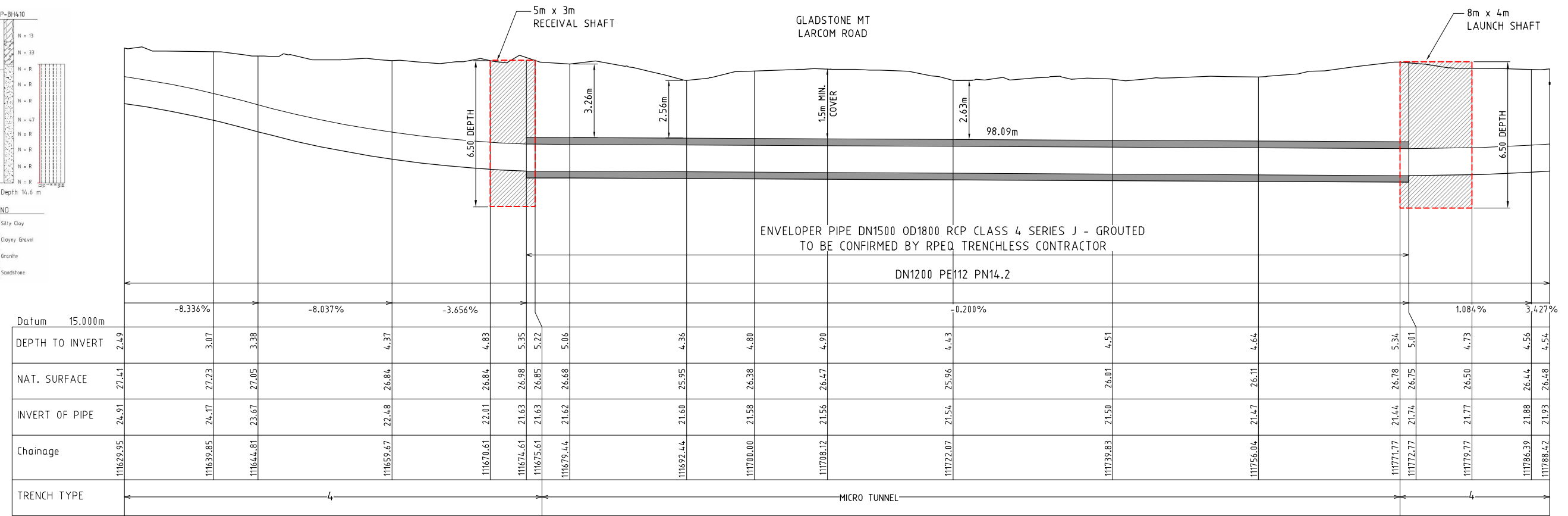
- LEGEND:**
EXISTING:
 — - FENCE
 — - GAS
 — - ELECT'L POWER (OH or UG)
 — - TELSTRA CABLE
 — - DRAIN
 — - STORM WATER
 — - WATER OTHER
 — - SEWER PIPE
 — - 100 ARI FLOOD LEVEL
 — - SURVEYED CADASTRE
 — - RIGHT OF WAY
 — - DCDB
 [Hatched Box] - CONSTRUCTION ZONES
 [Red Hatched Box] - LICENSED AREAS
 ⊕ - BOREHOLE / TEST PIT



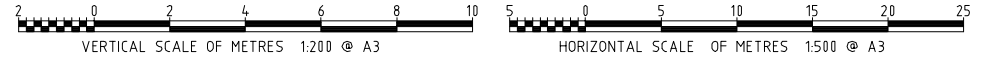
PLAN



BOREHOLE DETAILS
SCALE 1:100



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: [Signature] DATE: 13/10/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
2	13/10/23	NOTE UPDATED	TA	MM	PS			
1	26/09/23	PITS MOVED BORE EXTENDED	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goodson Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

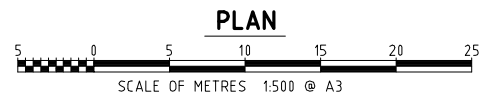
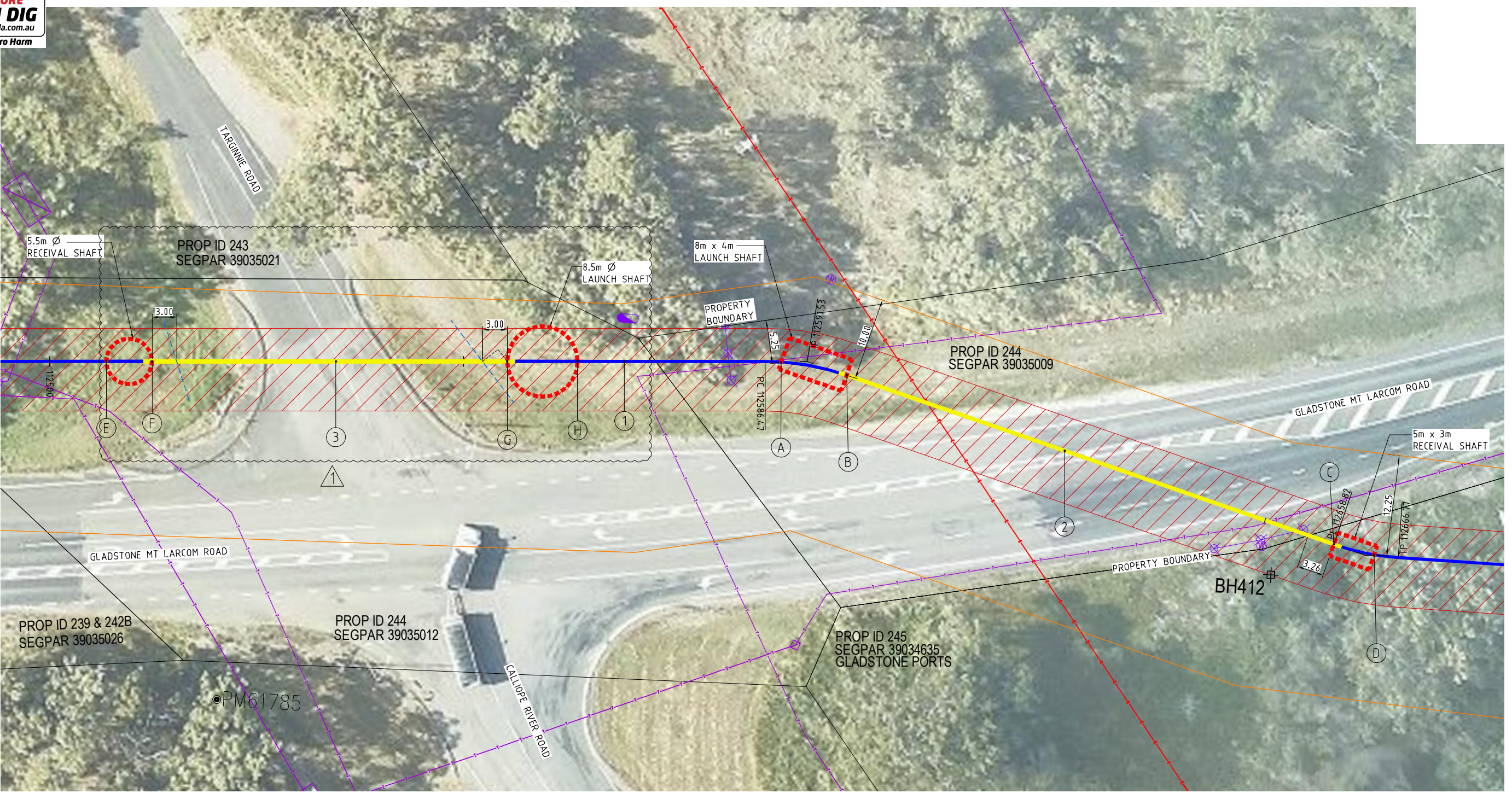
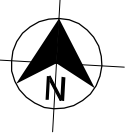
**FITZROY TO GLADSTONE PIPELINE PROJECT
 GLADSTONE MT LARCOM ROAD CRITICAL CROSSING
 DETAILS**

1151-DL07-W3P-CIV-DRG-37021

DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23
ACCEPTANCE BY		
RPEQ APPROVAL		
GAWB ACCEPTANCE		

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PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	2



SETOUT COORDINATES				
POINT	EASTING	NORTHING	R.L.	DESCRIPTION
A	308800.4754	7362302.3719		REAR OF LAUNCH SHAFT
B	308808.4665	7362301.2217		FACE OF LAUNCH SHAFT
C	308868.3996	7362284.1233		FACE OF RECEIVAL SHAFT
D	308873.3222	7362283.1553		REAR OF RECEIVAL SHAFT
E	308719.0422	7362297.8378	-	REAR OF RECEIVAL SHAFT
F	308724.5727	7362298.1465	-	FACE OF RECEIVAL SHAFT
G	308767.4163	7362300.5681	-	FACE OF LAUNCH SHAFT
H	308775.9108	7362301.0476	-	REAR OF LAUNCH SHAFT

MATERIAL TAKE OFF	
1	DN1200 PE112 PN14.2
2	ENVELOPER PIPE DN1500 OD1800 RCP CLASS 4 SERIES J - GROUTED (64.32 m LENGTH) TO BE CONFIRMED BY RPEQ TRENCHLESS CONTRACTOR
3	ENVELOPER PIPE ID1398 (OD1430) CS WT 16.0 - GROUTED (44.95 m LENGTH) TO BE CONFIRMED BY RPEQ TRENCHLESS CONTRACTOR

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *[Signature]* DATE: 26 / 09 / 23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	26/09/23	TARGINNIE ROAD RE-ALIGNMENT	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
 136 Goondoon Street Gladstone Q 4680 PO Box 446 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

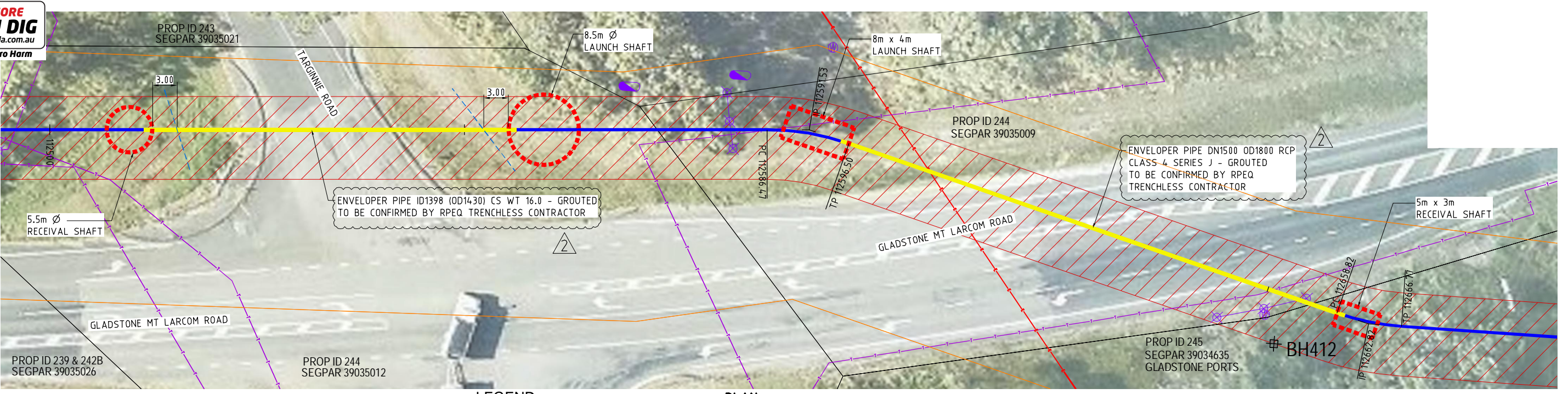
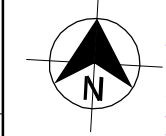
FITZROY TO GLADSTONE PIPELINE PROJECT
 TARGINNIE ROAD & GLADSTONE MT LARCOM ROAD CRITICAL CROSSING
 GENERAL ARRANGEMENT

1151-DL07-W3P-CIV-DRG-37030

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1

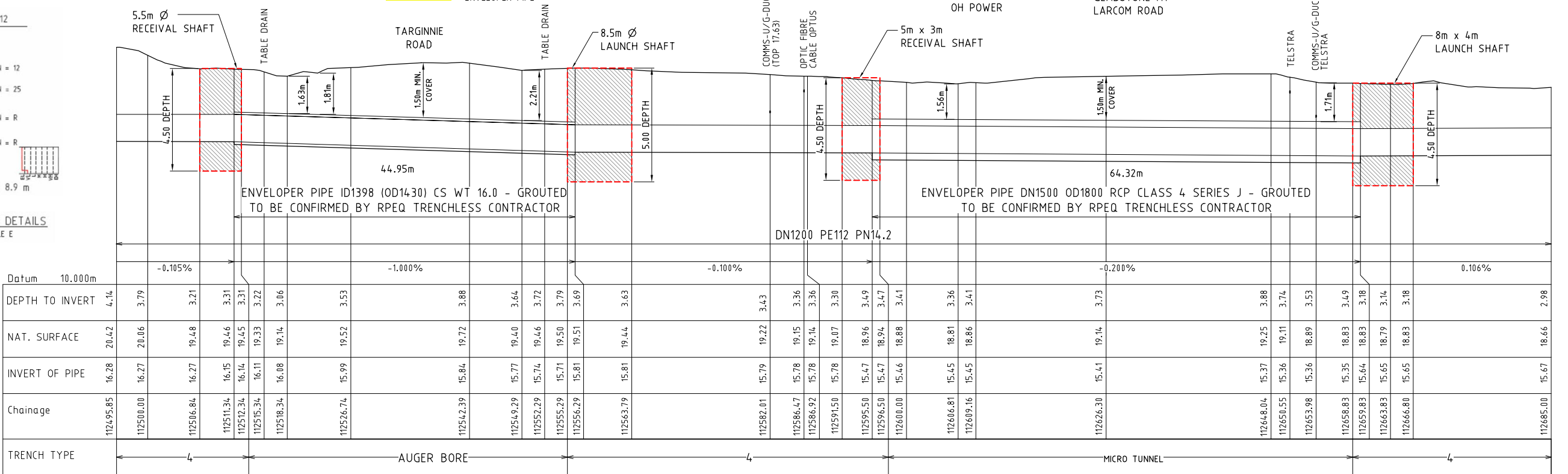
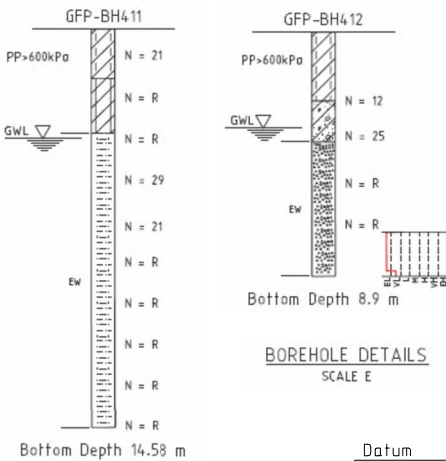
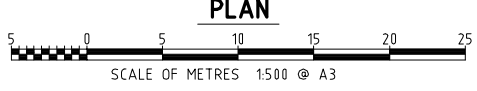
DO NOT SCALE

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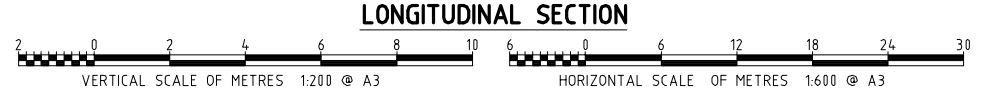


- LEGEND: EXISTING:**
- FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELSTRA CABLE
 - DRAIN
 - SW - STORM WATER
 - W - WATER OTHER
 - S - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCDB

- LEGEND: PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE
 - CONSTRUCTION ZONES
 - LICENSED AREAS
 - BOREHOLE / TEST PIT



- LEGEND:**
- Silty Clay
 - Clay
 - Sand
 - Gravel
 - Siltstone
 - Breccia



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: [Signature] DATE: 13/10/23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
2	13/10/23	NOTE UPDATED						
1	26/09/23	TARGINNIE ROAD RE-ALIGNMENT	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			

DO NOT SCALE

Gladstone Area Water Board

136 Goodson Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
 TARGINNIE ROAD & GLADSTONE MT LARCOM ROAD CRITICAL CROSSING DETAILS

1151-DL07-W3P-CIV-DRG-37031

DRAWN BY: TED ALVARADO	26/09/23	DESIGNED BY: MICHAEL MARIES	26/09/23	REVIEWED BY: PETER SEMIANIW	26/09/23
ACCEPTANCE BY: RPEQ APPROVAL		ACCEPTANCE BY: GAWB ACCEPTANCE			

PROJECT No. GAWB # A3 DRAWING No. XXX-X-XXXX SCALE AS NOTED REV 2



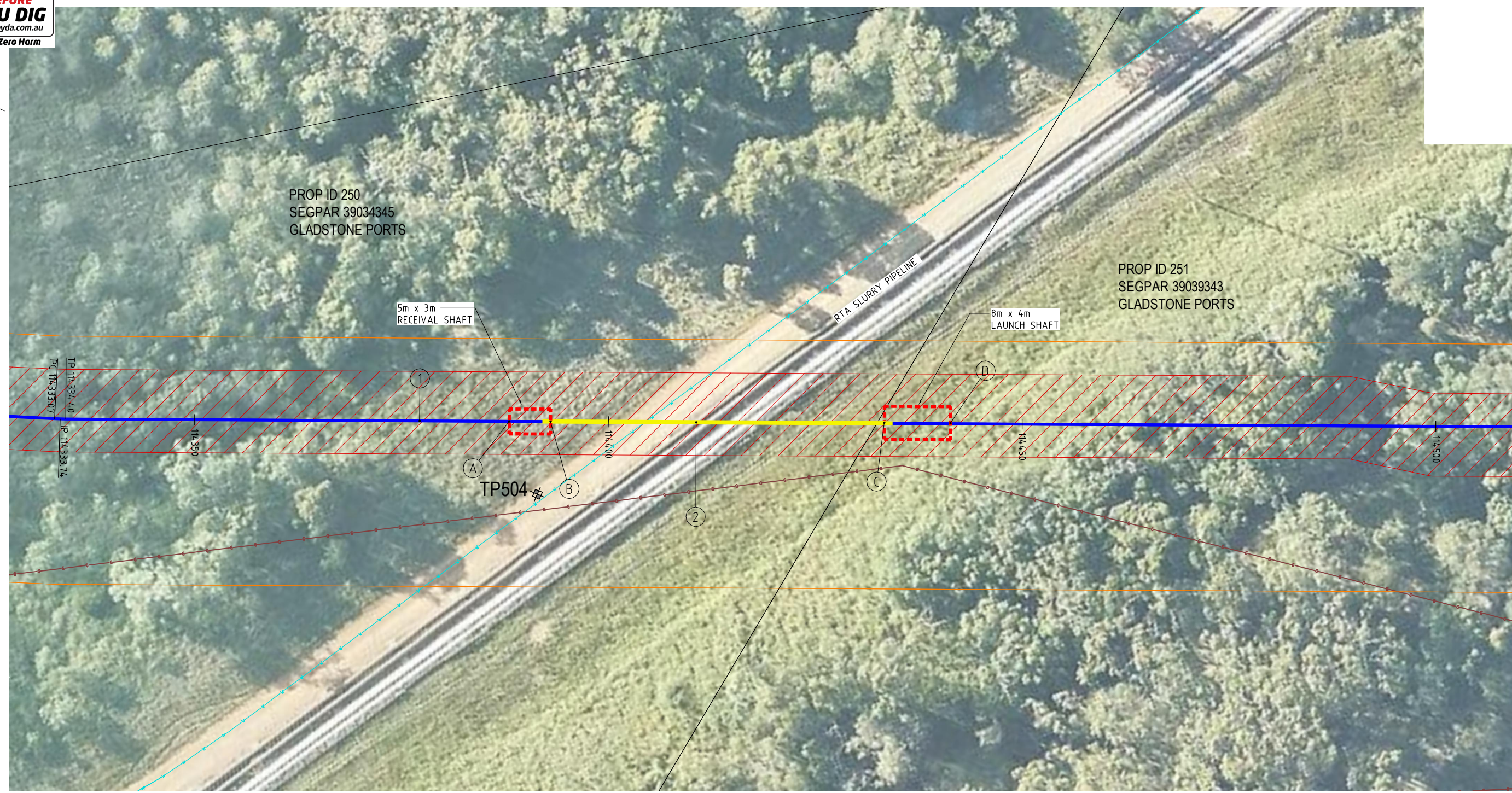
PROP ID 250
SEGPART 39034345
GLADSTONE PORTS

PROP ID 251
SEGPART 39039343
GLADSTONE PORTS

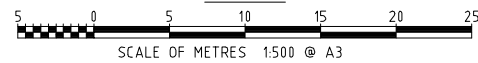
5m x 3m
RECEIVAL SHAFT

8m x 4m
LAUNCH SHAFT

RTA SLURRY PIPELINE



PLAN



SETOUT COORDINATES				
POINT	EASTING	NORTHING	R.L.	DESCRIPTION
A	310555.3842	7362396.7278		REAR OF RECEIVAL SHAFT
B	310559.9807	7362398.6848		FACE OF RECEIVAL SHAFT
C	310597.0591	7362414.5515		FACE OF LAUNCH SHAFT
D	310604.4196	7362417.6854		REAR OF LAUNCH SHAFT

MATERIAL TAKE OFF	
1	DN1200 PE112 PN14.2
2	ENVELOPER PIPE (D1398 (OD1430) CS WT 16.0 - GROUDED (42.32 m LENGTH) TO BE CONFIRMED BY RPEQ TRENCHLESS CONTRACTOR

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *Peter Semianiw* DATE: 02/10/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	02/10/23	HOLD CLOUD ADDED	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board

136 Goodoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DRAWN BY	TED ALVARADO	26/09/23
DESIGNED BY	MICHAEL MARIES	26/09/23
REVIEWED BY	PETER SEMIANIW	26/09/23
ACCEPTANCE BY		
RPEQ APPROVAL		
GAWB ACCEPTANCE		

FITZROY TO GLADSTONE PIPELINE PROJECT
RTA SLURRY PIPELINE CRITICAL CROSSING
GENERAL ARRANGEMENT

1151-DL07-W3P-CIV-DRG-37040

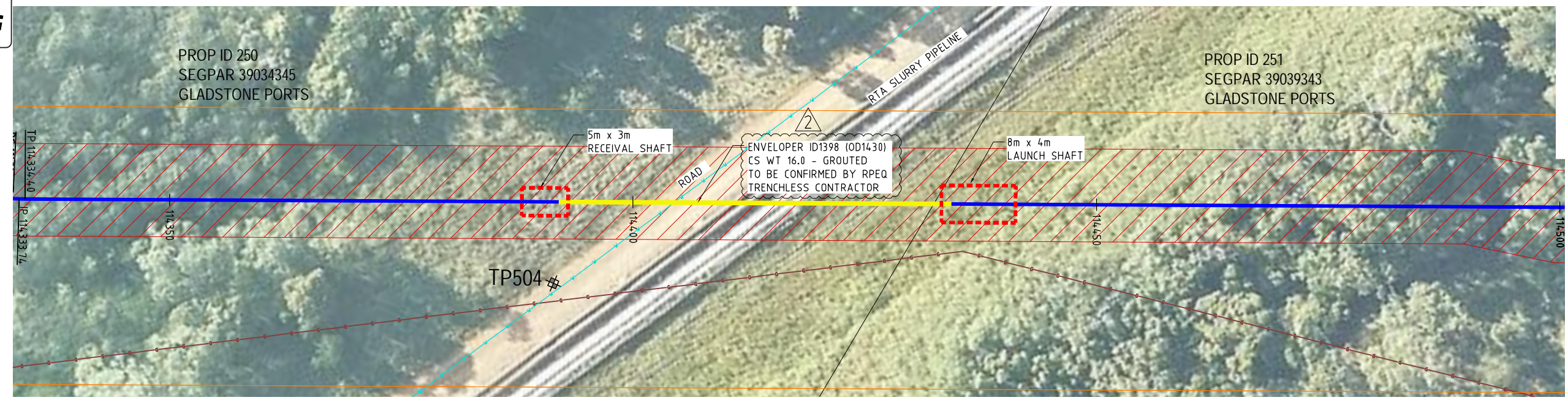
PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1

DO NOT SCALE



PROP ID 250
SEGPART 39034345
GLADSTONE PORTS

PROP ID 251
SEGPART 39039343
GLADSTONE PORTS

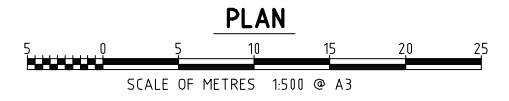


LEGEND:

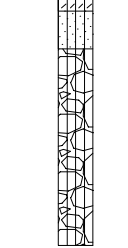
- EXISTING:**
- FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELSTRA CABLE
 - DRAIN
 - STORM WATER
 - WATER OTHER
 - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCDB
 - CONSTRUCTION ZONES
 - LICENSED AREAS
 - BOREHOLE / TEST PIT

LEGEND:

- PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE



TP504



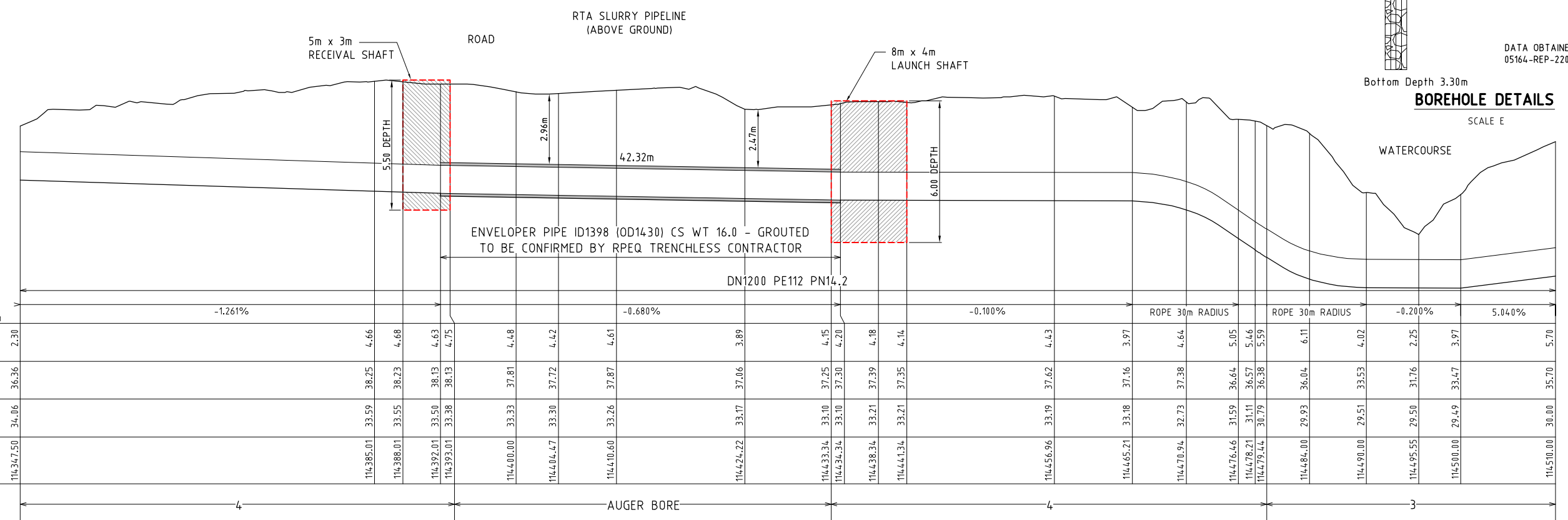
BOREHOLE DETAILS

Bottom Depth 3.30m
SCALE E

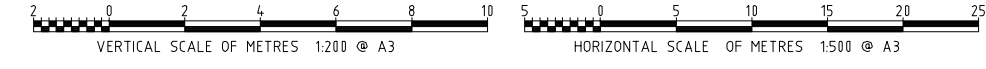
LEGEND

- CLAYEY SILT
- SANDY SILT
- SILTY GRAVEL

DATA OBTAINED FROM REPORT
05164-REP-22009-G-008.PDF



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *Peter Semianiw* DATE: 13/10/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
2	13/10/23	NOTE UPDATED	TA	MM	PS			
1	27/09/23	LEGEND CHANGED AND DIMENSIONS ADDED	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			

DO NOT SCALE

Gladstone Area Water Board

136 Goondoo Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DESIGNED BY: TED ALVARADO 27/09/23
 REVIEWED BY: MICHAEL MARIES 27/09/23
 ACCEPTANCE BY: PETER SEMIANIW 27/09/23

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**FITZROY TO GLADSTONE PIPELINE PROJECT
RTA SLURRY PIPELINE CRITICAL CROSSING
DETAILS**

1151-DL07-W3P-CIV-DRG-37041

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	2



PLAN



SETOUT COORDINATES				
POINT	EASTING	NORTHING	R.L.	DESCRIPTION
A	311813.8959	7362957.7928		REAR OF RECEIVAL SHAFT
B	311818.2377	7362960.2725		FACE OF RECEIVAL SHAFT
C	311837.7542	7362971.4688		FACE OF LAUNCH SHAFT
D	311844.6929	7362975.4505		REAR OF LAUNCH SHAFT

MATERIAL TAKE OFF	
1	DN1200 PE112 PN14.2
2	ENVELOPER PIPE ID1398 (OD1430) CS WT 16.0 - GROUDED (24.50m LENGTH) TO BE CONFIRMED BY RPEQ TRENCHLESS CONTRACTOR

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *[Signature]* DATE: 27/09/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	27/09/23	GASLINE ADDED	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



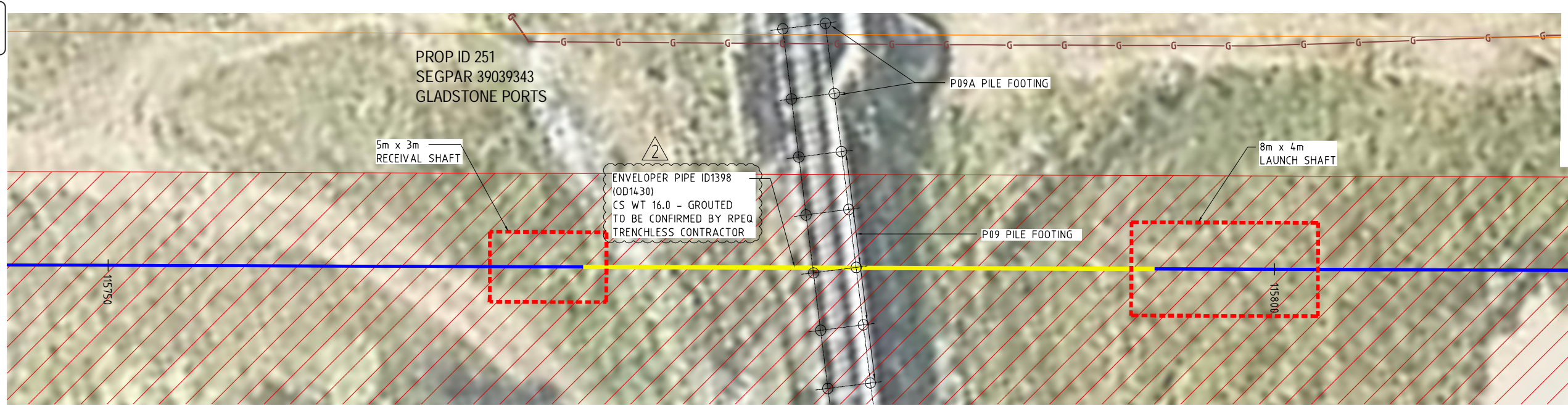
Gladstone Area Water Board

136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DESIGNED BY: TED ALVARADO 26/09/23
 DESIGNED BY: MICHAEL MARIES 26/09/23
 REVIEWED BY: PETER SEMIANIW 26/09/23

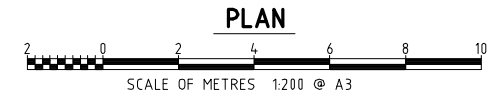
THIS DRAWING IS THE PROPERTY OF GLADSTONE AREA WATER BOARD AND IS NOT TO BE COPIED OR USED WITHOUT ITS WRITTEN PERMISSION		INITIALS SHOWING (W) ASTERISK INDICATE ORIGINAL SIGNATURE HAS BEEN SIGNED OFF AS PER DATE INDICATED	
PROJECT No.	SIZE	DRAWING No.	SCALE
GAWB #	A3	XXX-X-XXXX	AS NOTED
			REV 1

DO NOT SCALE

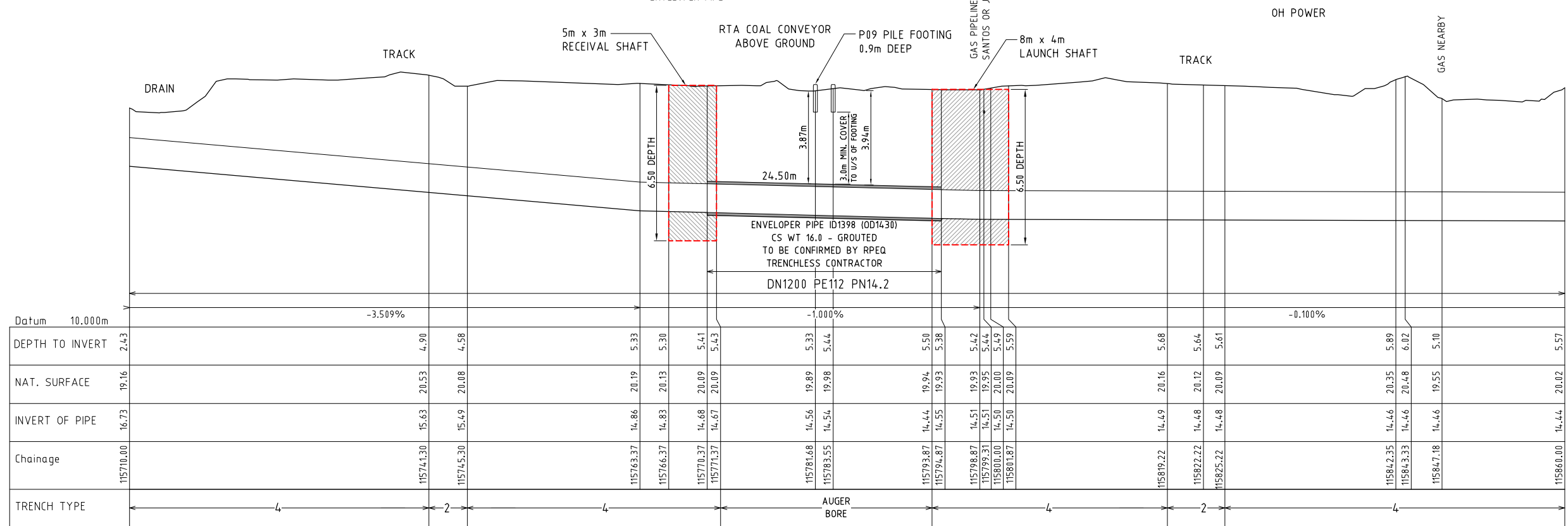


- LEGEND:**
- EXISTING:**
- FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELSTRA CABLE
 - DRAIN
 - STORM WATER
 - WATER OTHER
 - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCDB
 - CONSTRUCTION ZONES
 - LICENSED AREAS
 - BOREHOLE / TEST PIT

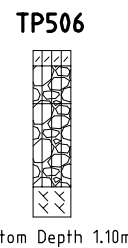
- LEGEND:**
- PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE



- LEGEND**
- CLAYEY SILT
 - SILTY GRAVEL
 - BASALT



Datum	10.000m																														
DEPTH TO INVERT	2.43																														
NAT. SURFACE	19.16	20.53	20.08	4.58	5.33	5.30	5.41	5.43	5.33	5.44	5.50	5.38	5.42	5.44	5.49	5.49	5.59	5.68	5.64	5.61	5.89	6.02	5.10	5.57							
INVERT OF PIPE	16.73	15.63	15.49	4.58	14.86	14.83	14.68	14.67	14.56	14.54	14.44	14.55	14.51	14.51	14.50	14.50	14.50	14.49	14.48	14.48	14.46	14.46	14.46	14.44	14.44						
Chainage	115710.00	115741.30	115745.30		115763.37	115766.37	115770.37	115771.37	115781.68	115783.55	115793.87	115794.87	115798.87	115799.31	115800.00	115801.87		115819.22	115822.22	115825.22	115842.35	115843.33	115847.18	115860.00							
TRENCH TYPE		4		2	4				AUGER BORE								4		2		4										



Bottom Depth 1.10m
BOREHOLE DETAILS
SCALE E

DATA OBTAINED FROM REPORT
05164-REP-22000-G-008.PDF

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *[Signature]* DATE: 13/10/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
2	13/10/23	NOTE UPDATED						
1	27/09/23	LEGEND CHANGED & GASLINE ADDED	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

**FITZROY TO GLADSTONE PIPELINE PROJECT
RTA COAL CONVEYOR CRITICAL CROSSINGS
DETAILS**

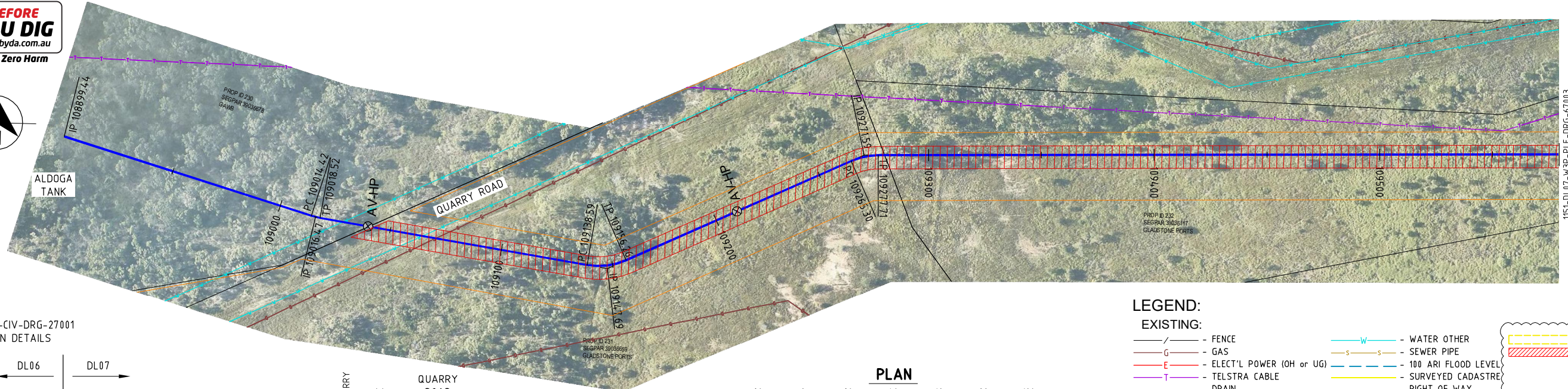
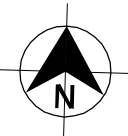
1151-DL07-W3P-CIV-DRG-37051

PROJECT No. GAWB # A3 DRAWING No. XXX-X-XXXX SCALE AS NOTED REV 2

DO NOT SCALE

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ACCEPTANCE BY: PETER SEMIANIW
RPEQ APPROVAL: [Signature]
GAWB ACCEPTANCE: [Signature]



REFER DWG.
1151-DL07-W3P-CIV-DRG-27001
FOR CONNECTION DETAILS

LEGEND:

EXISTING:

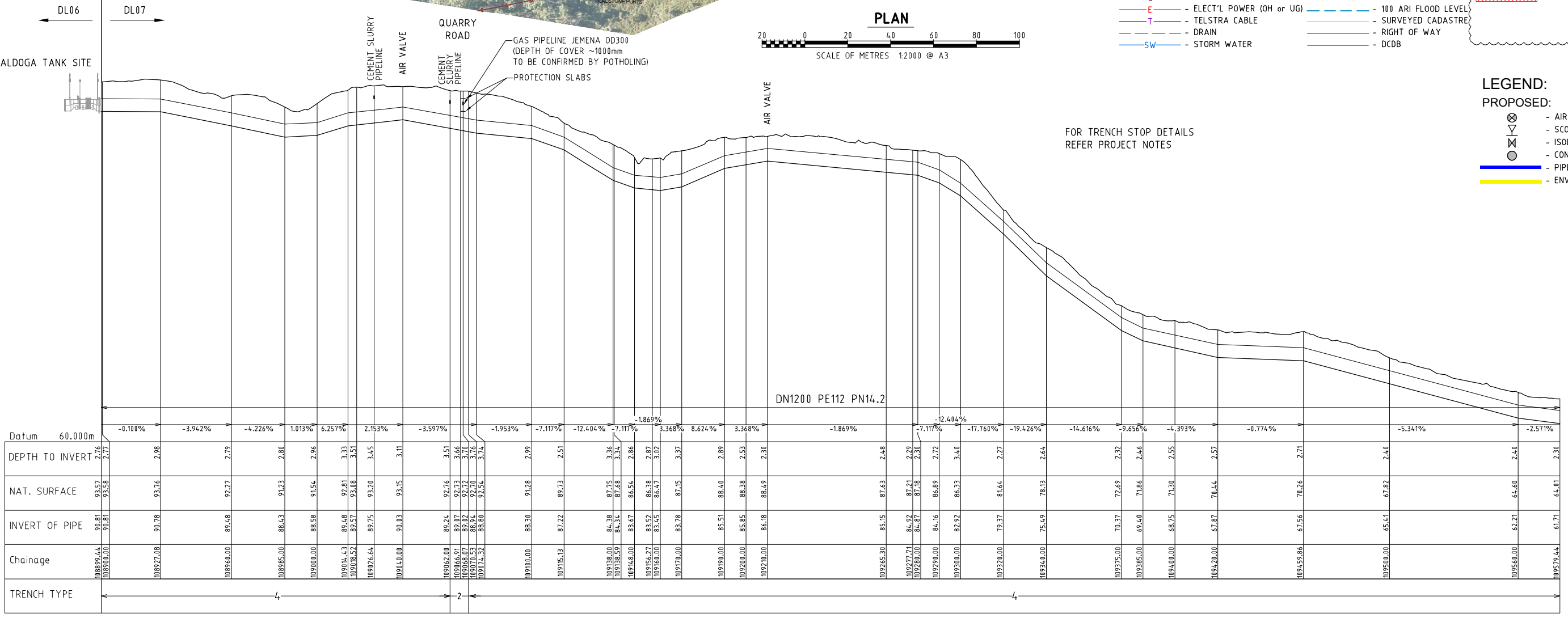
- FENCE
- GAS
- ELECT'L POWER (OH or UG)
- TELSTRA CABLE
- DRAIN
- STORM WATER
- WATER OTHER
- SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB

- CONSTRUCTION ZONES
- LICENSED AREAS

LEGEND:

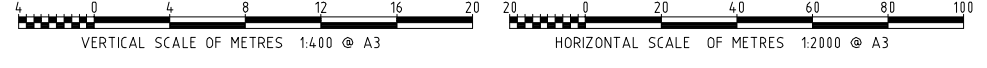
PROPOSED:

- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- PIPELINE
- ENVELOPER PIPE



Stationing	Gradient (%)	DEPTH TO INVERT	NAT. SURFACE	INVERT OF PIPE	Chainage	TRENCH TYPE
108899.44	-0.100%	93.57	93.58	90.81	108899.44	
108900.00	-3.942%	93.58	93.58	90.81	108900.00	
108927.08	-4.226%	92.77	92.77	89.48	108927.08	
108950.00	1.013%	91.23	91.23	88.43	108950.00	
109000.00	6.257%	91.54	91.54	86.58	109000.00	
109016.43	2.153%	92.81	92.81	89.48	109016.43	
109018.52	-3.597%	93.08	93.08	89.57	109018.52	
109026.64	-1.953%	93.20	93.20	89.75	109026.64	
109040.00	-7.117%	93.15	93.15	90.83	109040.00	
109062.00	-12.404%	92.76	92.76	89.24	109062.00	
109066.91	-1.869%	92.73	92.73	89.07	109066.91	
109068.07	8.624%	92.72	92.72	89.02	109068.07	
109070.53	3.368%	92.70	92.70	88.91	109070.53	
109074.24	-7.117%	92.64	92.64	88.80	109074.24	
109100.00	-17.768%	88.30	88.30	86.30	109100.00	
109105.13	-19.426%	87.22	87.22	85.13	109105.13	
109138.00	-14.616%	87.75	87.75	84.38	109138.00	
109150.57	-9.656%	87.68	87.68	84.31	109150.57	
109158.00	-4.393%	86.54	86.54	83.67	109158.00	
109168.00	-0.774%	86.52	86.52	83.52	109168.00	
109170.00	-5.341%	86.45	86.45	83.45	109170.00	
109199.00	-2.571%	87.15	87.15	83.37	109199.00	
109200.00		88.40	88.40	85.51	109200.00	
109208.00		88.38	88.38	85.85	109208.00	
109210.00		88.49	88.49	86.18	109210.00	
109265.30		87.63	87.63	85.15	109265.30	
109277.71		87.21	87.21	84.92	109277.71	
109288.00		87.18	87.18	84.87	109288.00	
109299.00		86.89	86.89	84.16	109299.00	
109300.00		86.33	86.33	83.49	109300.00	
109320.00		81.64	81.64	79.37	109320.00	
109340.00		78.13	78.13	75.49	109340.00	
109375.00		72.69	72.69	70.37	109375.00	
109385.00		71.86	71.86	69.40	109385.00	
109400.00		71.30	71.30	68.75	109400.00	
109420.00		70.44	70.44	67.87	109420.00	
109459.86		70.26	70.26	67.56	109459.86	
109500.00		67.82	67.82	65.41	109500.00	
109579.44		64.81	64.81	61.71	109579.44	

LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *Peter Semianiw* DATE: 27/09/23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
3	27/09/23	LEGEND CHANGED	TA	MM	PS			
2	31/08/23	LICENSED AREA ADDED	TA	MM	PS			
1	30/08/23	STRIKE PROTECTION SLABS ADDED	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board

136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DRAWN BY: TED ALVARADO 27/09/23
DESIGNED BY: MICHAEL MARIES 27/09/23
REVIEWED BY: PETER SEMIANIW 27/09/23

FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 PIPELINE CH 108899.44-109579.44

1151-DL07-W3P-PL-DRG-67002	PROJECT No.	SIZE	DRAWING No.	SCALE	REV
	GAWB #	A3	XXX-X-XXXX	AS NOTED	3

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DO NOT SCALE



LEGEND:

PROPOSED:

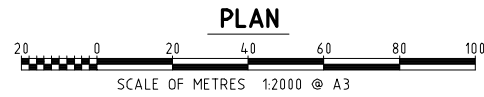
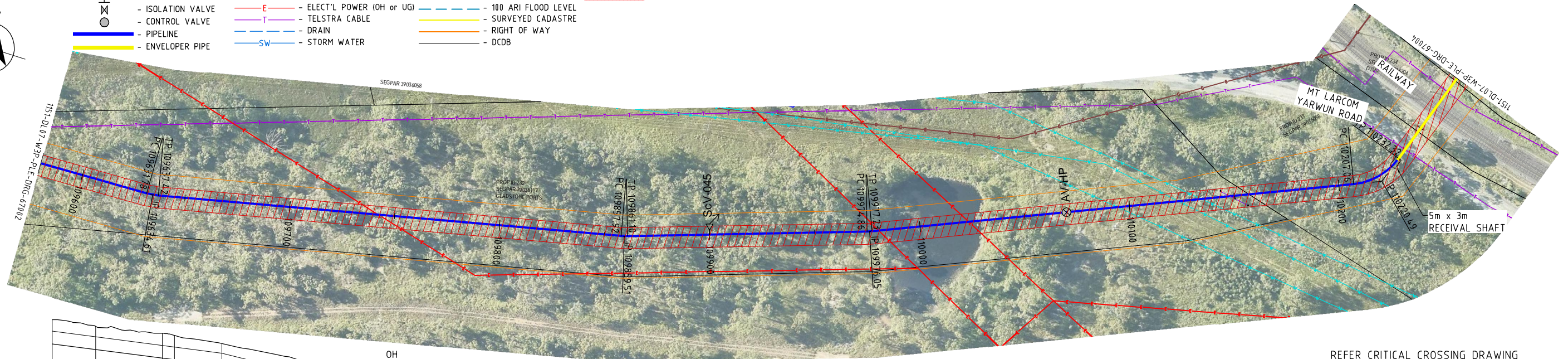
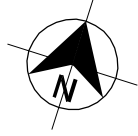
- ⊗ - AIR VALVE
- ⊕ - SCOUR VALVE
- ⊖ - ISOLATION VALVE
- ⊙ - CONTROL VALVE
- - PIPELINE
- - ENVELOPER PIPE

LEGEND:

EXISTING:

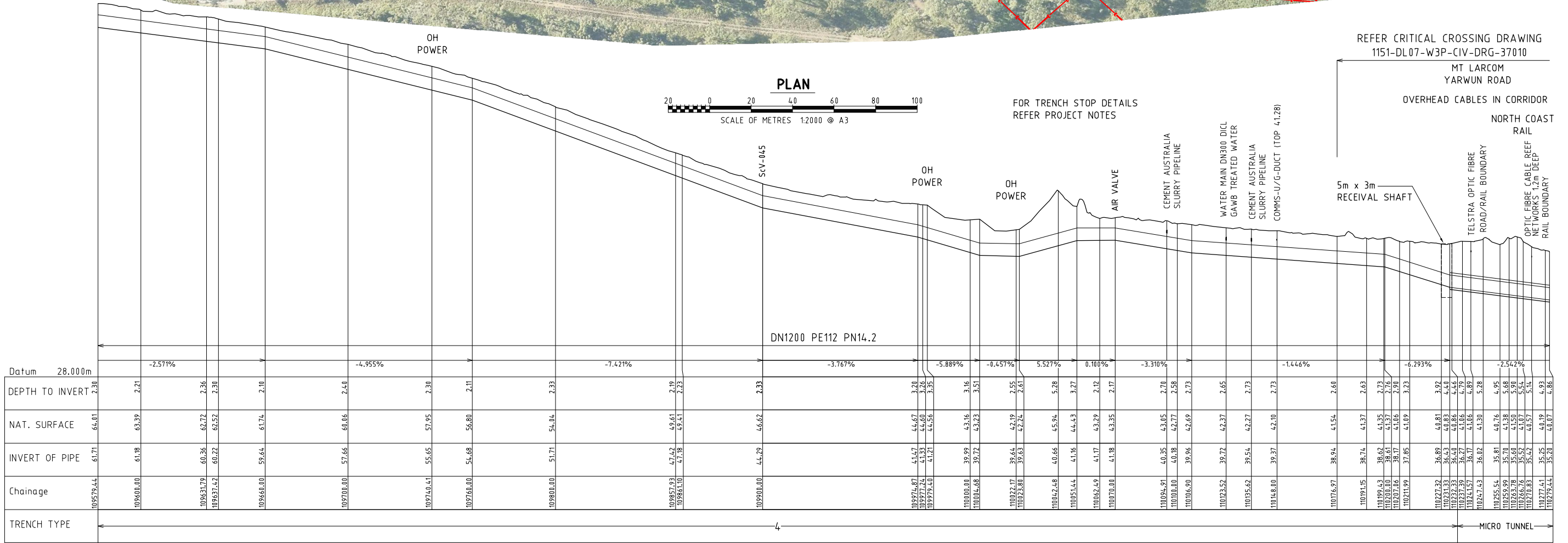
- / — - FENCE
- G — GAS
- E — ELECT'L POWER (OH or UG)
- T — TELSTRA CABLE
- D — DRAIN
- SW — STORM WATER
- W — WATER OTHER
- S — SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB

- ▭ - CONSTRUCTION ZONES
- ▨ - LICENSED AREAS

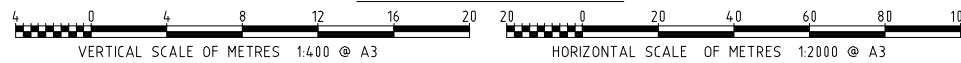


PLAN

SCALE OF METRES 1:2000 @ A3



LONGITUDINAL SECTION



Chainage	109579.44	109600.00	109631.79	109637.42	109660.00	109700.00	109740.41	109760.00	109800.00	109867.03	109867.10	109867.10	109900.00	109976.87	109977.24	109977.40	110000.00	110004.68	110022.17	110023.81	110023.81	110042.68	110051.44	110062.49	110070.00	110094.91	110100.00	110106.90	110123.52	110135.62	110148.00	110176.97	110191.15	110199.43	110200.00	110207.06	110211.99	110220.32	110231.33	110232.33	110237.39	110241.57	110247.43	110255.54	110257.78	110266.76	110270.83	110277.41	110279.44
Datum	28.00m																																																
DEPTH TO INVERT	2.30	2.21	2.26	2.30	2.10	2.49	2.30	2.11	2.33	2.19	2.22	2.33	3.20	3.26	3.35	3.16	3.51	2.55	2.61	2.61	5.28	3.27	2.12	2.17	2.70	2.58	2.73	2.65	2.73	2.73	2.60	2.63	2.73	2.76	2.90	3.23	3.92	4.40	4.45	4.79	4.89	5.28	6.95	6.98	5.54	5.14	6.93	6.85	
NAT. SURFACE	64.81	63.39	62.72	62.52	61.74	60.86	57.95	56.80	54.04	49.61	49.61	46.62	44.67	44.60	44.56	43.16	43.23	42.19	42.24	42.24	40.66	44.43	43.29	43.35	40.35	40.18	42.77	42.37	42.27	42.10	41.54	41.37	41.35	41.37	41.86	41.86	41.86	41.86	41.86	40.76	41.50	41.86	41.86	40.57	40.19	40.07			
INVERT OF PIPE	61.71	61.18	60.26	60.22	59.64	57.66	55.65	54.68	51.71	47.42	47.41	44.29	41.47	41.21	40.66	39.99	39.72	39.64	39.63	39.63	40.66	41.16	41.17	41.18	40.35	40.18	39.72	39.54	39.37	38.94	38.74	38.62	38.61	38.17	38.17	38.17	38.17	38.17	36.81	36.40	36.40	36.40	35.42	35.25	35.28				
TRENCH TYPE	←																												MICRO TUNNEL																				

REFER CRITICAL CROSSING DRAWING
1151-DL07-W3P-CIV-DRG-37010
MT LARCOM
YARWUN ROAD
OVERHEAD CABLES IN CORRIDOR

NORTH COAST
RAIL
TELSTRA OPTIC FIBRE
ROAD/RAIL BOUNDARY
OPTIC FIBRE CABLE REEF
NETWORKS 1.2m DEEP
RAIL BOUNDARY

5m x 3m
RECEIVABLE SHAFT

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: [Signature] DATE: 27/09/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
0	27/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
136 Goondoon Street Gladstone Q 4680 PO Box 446 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 PIPELINE CH 109579.44-110279.44

1151-DL07-W3P-PLC-DRG-67003

PROJECT No. GAWB # A3 DRAWING No. XXX-X-XXXX SCALE AS NOTED REV 0

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ACCEPTANCE BY: PETER SEMIANIW



LEGEND:

PROPOSED:

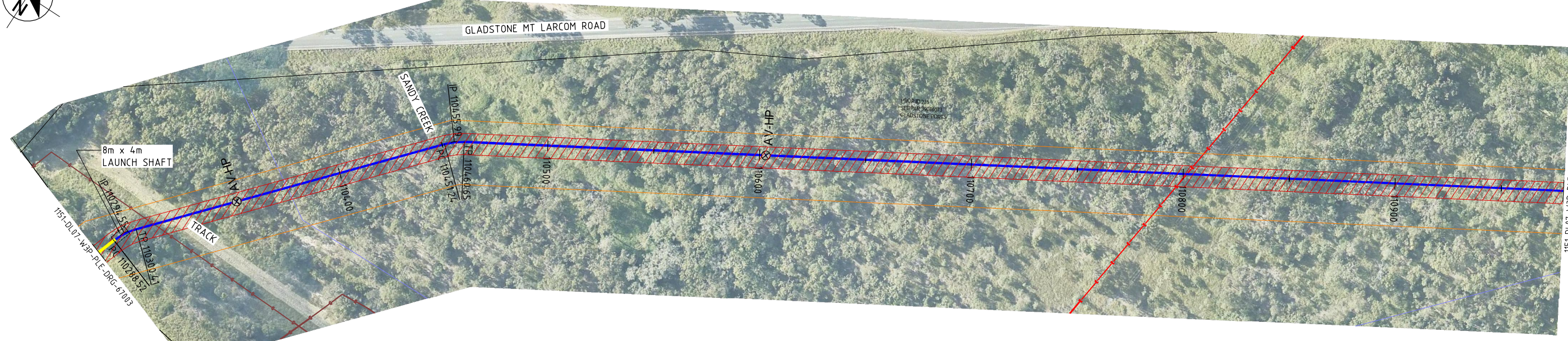
- ⊗ - AIR VALVE
- ⊙ - SCOUR VALVE
- ⊗ - ISOLATION VALVE
- ⊙ - CONTROL VALVE
- - PIPELINE
- - ENVELOPER PIPE

LEGEND:

EXISTING:

- / — - FENCE
- G — GAS
- E — ELECT'L POWER (OH or UG)
- T — TELSTRA CABLE
- D — DRAIN
- SW — STORM WATER
- W — WATER OTHER
- S — SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB

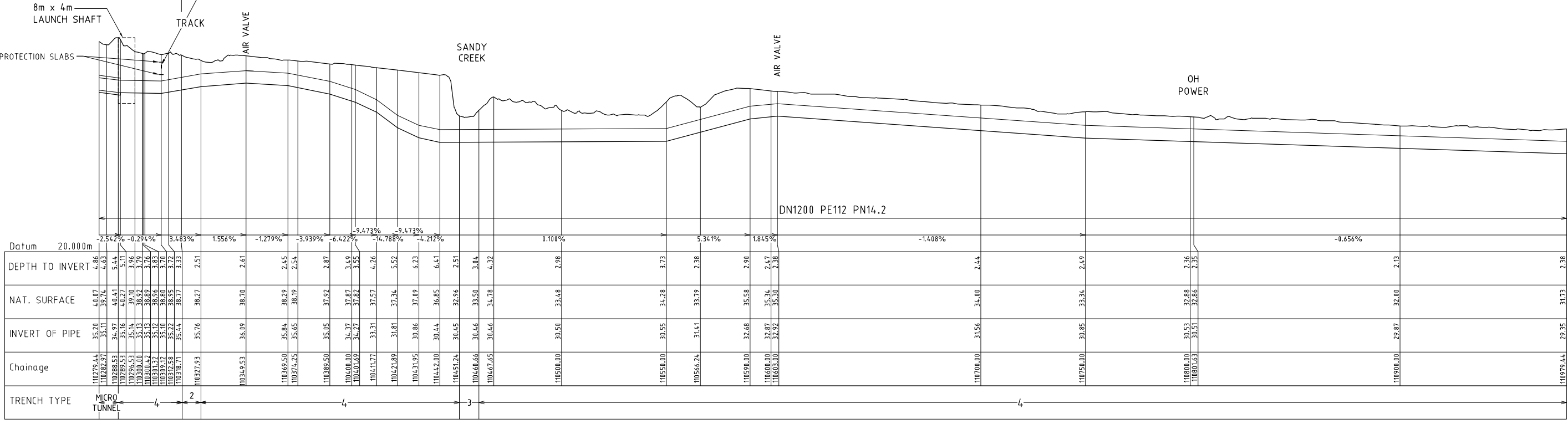
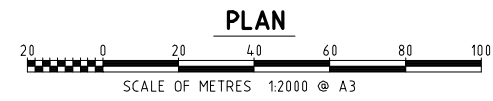
- ▨ - CONSTRUCTION ZONES
- ▨ - LICENSED AREAS



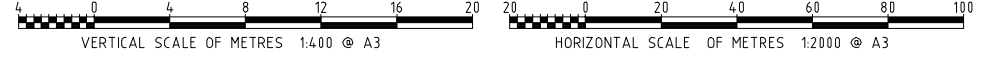
REFER CRITICAL CROSSING DRAWING
1151-DL07-W3P-CIV-DRG-37010

GAS PIPELINE JEMENA OD300
(DEPTH OF COVER ~1000mm
TO BE CONFIRMED BY POTHOLING)

FOR TRENCH STOP DETAILS
REFER PROJECT NOTES



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: [Signature] DATE: 27/09/23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
3	27/09/23	LEGEND CHANGED	TA	MM	PS	-	-	-
2	31/08/23	LICENSED AREA ADDED	TA	MM	PS	-	-	-
1	30/08/23	STRIKE PROTECTION SLABS ADDED	TA	MM	PS	-	-	-
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS	-	-	-

DO NOT SCALE

Gladstone Area Water Board

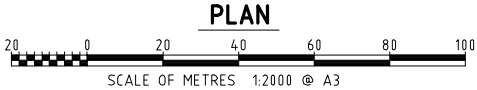
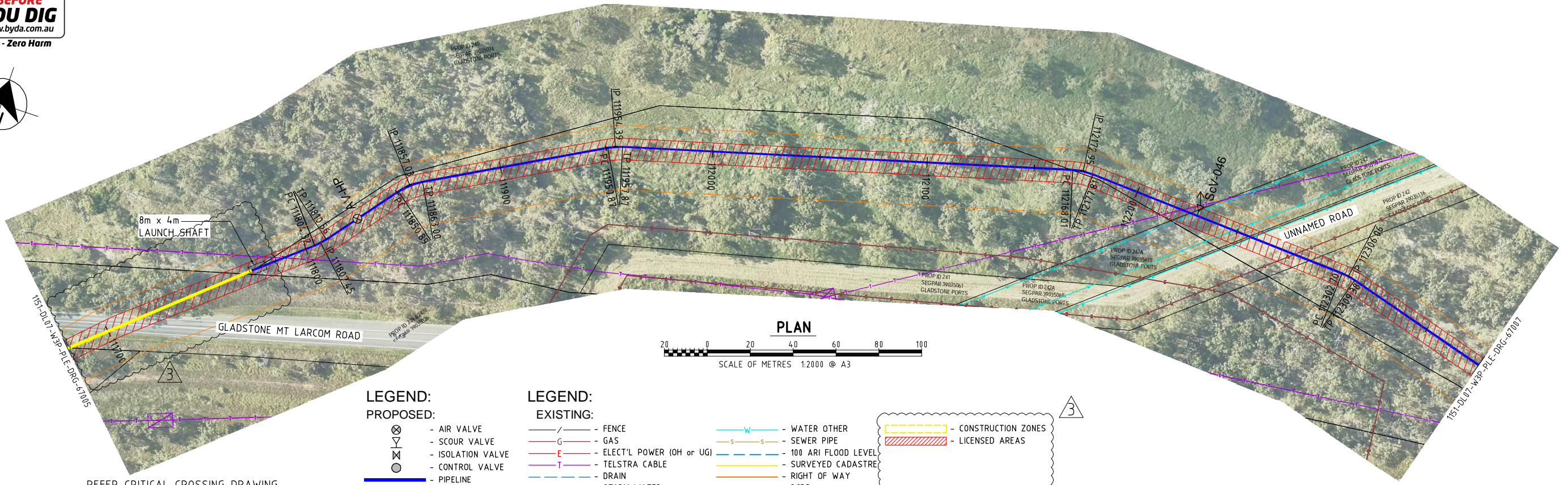
136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 PIPELINE CH 110279.44-110979.44

1151-DL07-W3P-PL-DRG-67004

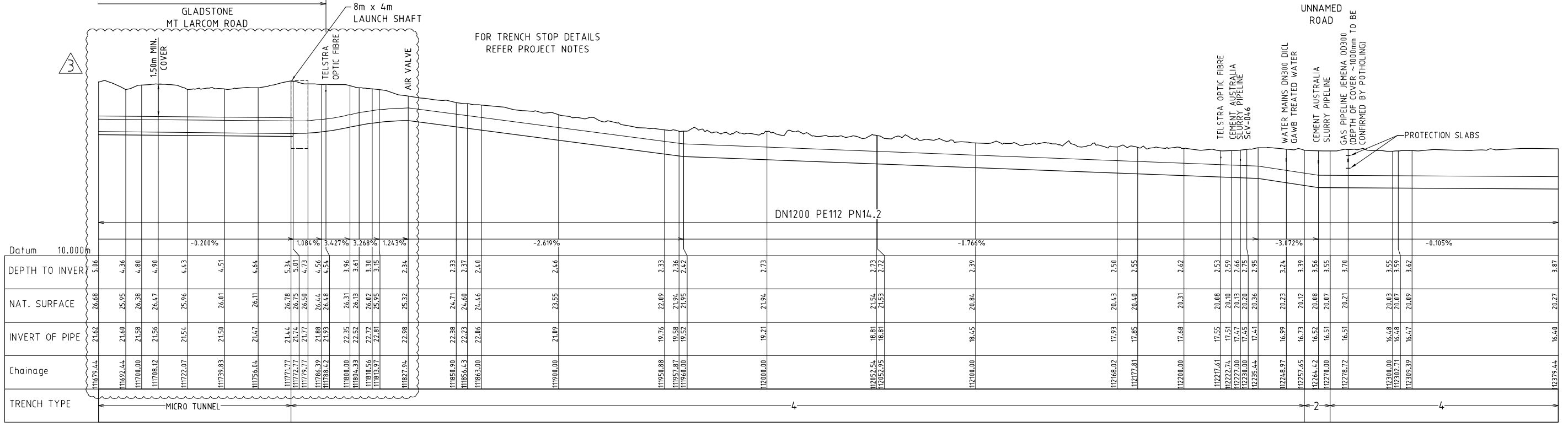
DRAWN BY	TED ALVARADO	27/09/23
DESIGNED BY	MICHAEL MARIES	27/09/23
REVIEWED BY	PETER SEMIANIW	27/09/23
ACCEPTANCE BY		
RPEQ APPROVAL		
GAWB ACCEPTANCE		

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	3

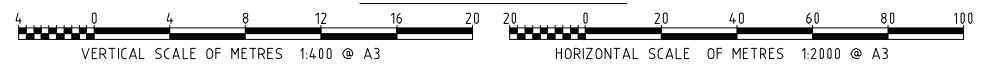


- LEGEND: PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE
- LEGEND: EXISTING:**
- FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELSTRA CABLE
 - DRAIN
 - STORM WATER
- WATER OTHER
 - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCDB
- LEGEND: CONSTRUCTION ZONES**
- CONSTRUCTION ZONES
 - LICENSED AREAS

REFER CRITICAL CROSSING DRAWING
1151-DL07-W3P-CIV-DRG-37020



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *Peter Semianiw* DATE: 27/09/23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
3	27/09/23	LEGEND CHANGED & CRITICAL CROSSING AMENDED	TA	MM	PS	-	-	-
2	31/08/23	LICENSED AREA ADDED	TA	MM	PS	-	-	-
1	30/08/23	STRIKE PROTECTION SLABS ADDED	TA	MM	PS	-	-	-
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS	-	-	-

world wide water plus

CREATIVE CONSTRUCTION™

DO NOT SCALE

Gladstone Area Water Board

136 Goodson Street
Gladstone Q 4680
PO Box 466
Gladstone Q 4680
Tel: (07) 4976 3000
ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 PIPELINE CH 111679.44 - 112379.44

1151-DL07-W3P-PLC-DRG-67006

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	3

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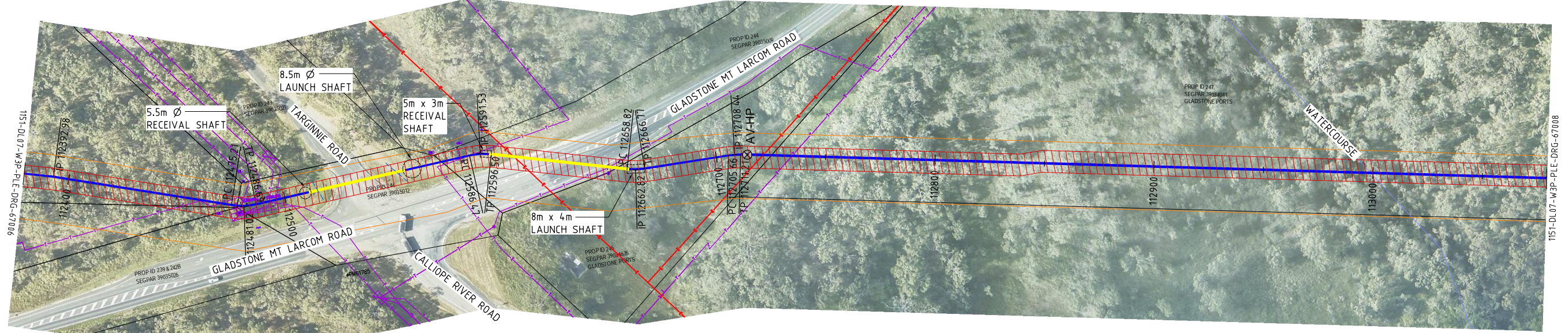
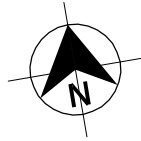
LEGEND: PROPOSED:

- ⊗ - AIR VALVE
- ⊙ - SCOUR VALVE
- ⊗ - ISOLATION VALVE
- ⊙ - CONTROL VALVE
- - PIPELINE
- - ENVELOPER PIPE

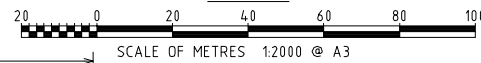
LEGEND: EXISTING:

- / — - FENCE
- G — - GAS
- E — - ELECT'L POWER (OH or UG)
- T — - TELSTRA CABLE
- - DRAIN
- SW — - STORM WATER
- W — - WATER OTHER
- S — - SEWER PIPE
- - 100 ARI FLOOD LEVEL
- - SURVEYED CADASTRE
- - RIGHT OF WAY
- - DCDB

- - CONSTRUCTION ZONES
- - LICENSED AREAS

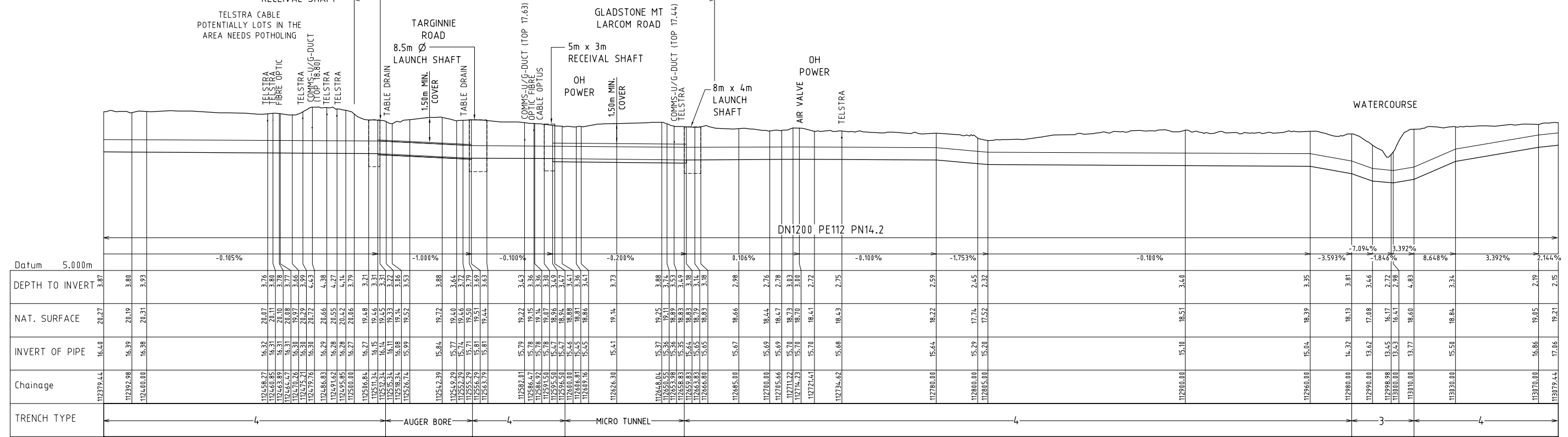


PLAN

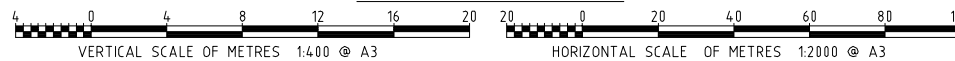


FOR TRENCH STOP DETAILS REFER PROJECT NOTES

REFER CRITICAL CROSSING DRAWING 1151-DL07-W3P-CIV-DRG-37030



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: *[Signature]* DATE: 27/09/23

ISSUED FOR CONSTRUCTION



Gladstone Area Water Board

136 Goodson Street PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000
 Gladstone Q 4680 ABN: 88 409 667 181

DRAWN BY: TED ALVARADO 27/09/23
 DESIGNED BY: MICHAEL MARIES 27/09/23
 REVIEWED BY: PETER SEMIANIW 27/09/23

FITZROY TO GLADSTONE PIPELINE PROJECT
 DL07 PIPELINE CH 112379.44 - 113079.44

1151-DL07-W3P-PL-DRG-67007	PROJECT No.	SIZE	DRAWING No.	SCALE	REV
	GAWB #	A3	XXX-X-XXXX	AS NOTED	0

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APPR.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
0	27/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			

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LEGEND:

PROPOSED:

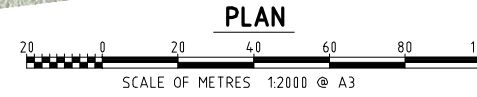
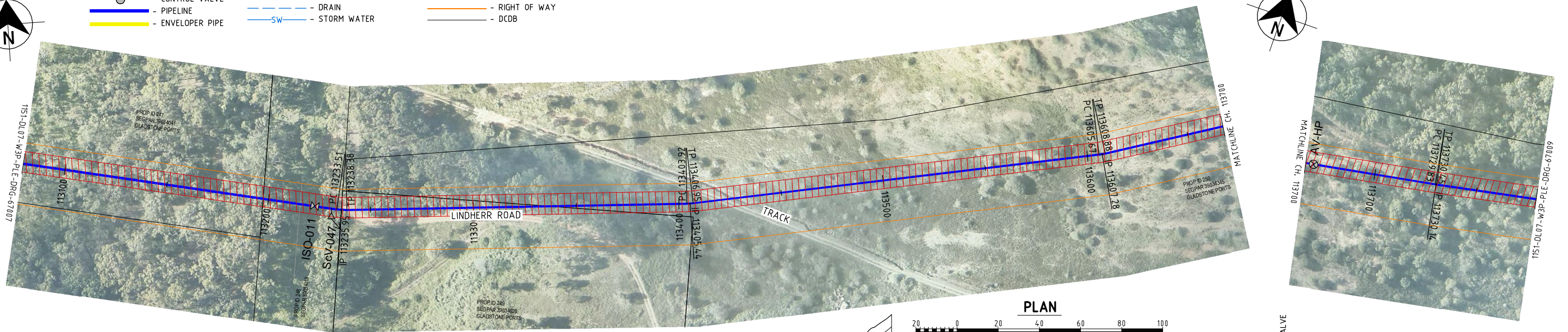
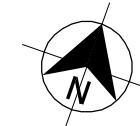
- ⊗ - AIR VALVE
- ⊙ - SCOUR VALVE
- ⊗ - ISOLATION VALVE
- ⊙ - CONTROL VALVE
- - PIPELINE
- - ENVELOPER PIPE

LEGEND:

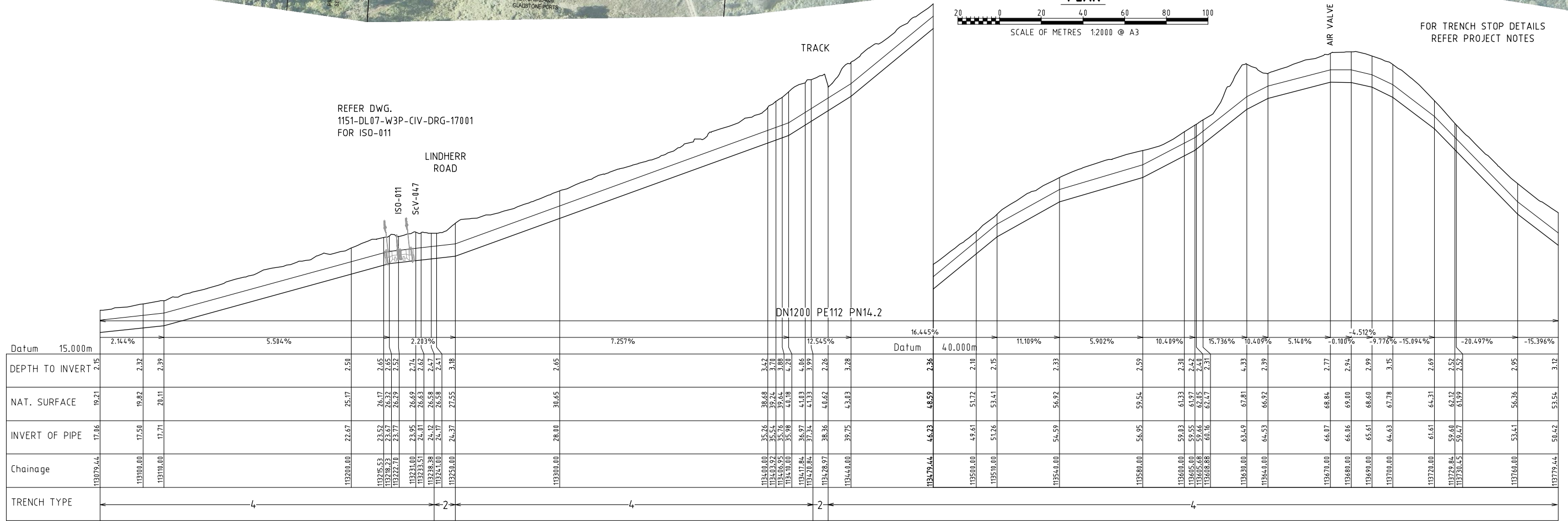
EXISTING:

- / — - FENCE
- G — GAS
- E — ELECT'L POWER (OH or UG)
- T — TELSTRA CABLE
- — DRAIN
- SW — STORM WATER
- W — WATER OTHER
- S — SEWER PIPE
- — 100 ARI FLOOD LEVEL
- — SURVEYED CADASTRE
- — RIGHT OF WAY
- — DCDB

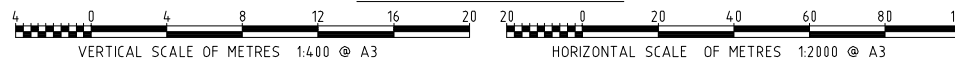
- - CONSTRUCTION ZONES
- - LICENSED AREAS



REFER DWG.
1151-DL07-W3P-CIV-DRG-17001
FOR ISO-011



LONGITUDINAL SECTION



FOR TRENCH STOP DETAILS
REFER PROJECT NOTES



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *Peter Semianiw* DATE: 27/09/23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
0	27/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board

136 Goondoon Street Gladstone Q 4680 PO Box 446 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DESIGNED BY: TED ALVARADO 27/09/23
DESIGNED BY: MICHAEL MARIES 27/09/23
REVIEWED BY: PETER SEMIANIW 27/09/23

FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 PIPELINE CH 113079.44 - 113779.44

1151-DL07-W3P-PL-DRG-67008	PROJECT No.	SIZE	DRAWING No.	SCALE	REV
	GAWB #	A3	XXX-X-XXXX	AS NOTED	0

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DO NOT SCALE



LEGEND:

PROPOSED:

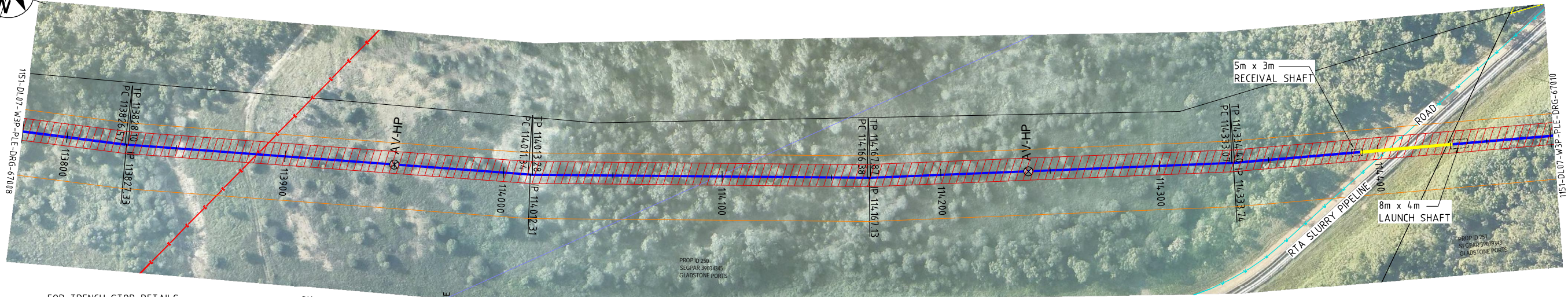
- ⊗ - AIR VALVE
- ⊗ - SCOUR VALVE
- ⊗ - ISOLATION VALVE
- ⊗ - CONTROL VALVE
- - PIPELINE
- - ENVELOPER PIPE

LEGEND:

EXISTING:

- / — - FENCE
- G — GAS
- E — ELECT'L POWER (OH or UG)
- T — TELSTRA CABLE
- D — DRAIN
- SW — STORM WATER
- W — WATER OTHER
- S — SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB

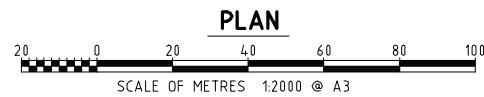
- ▨ - CONSTRUCTION ZONES
- ▨ - LICENSED AREAS



FOR TRENCH STOP DETAILS REFER PROJECT NOTES

OH POWER TRACK

AIR VALVE

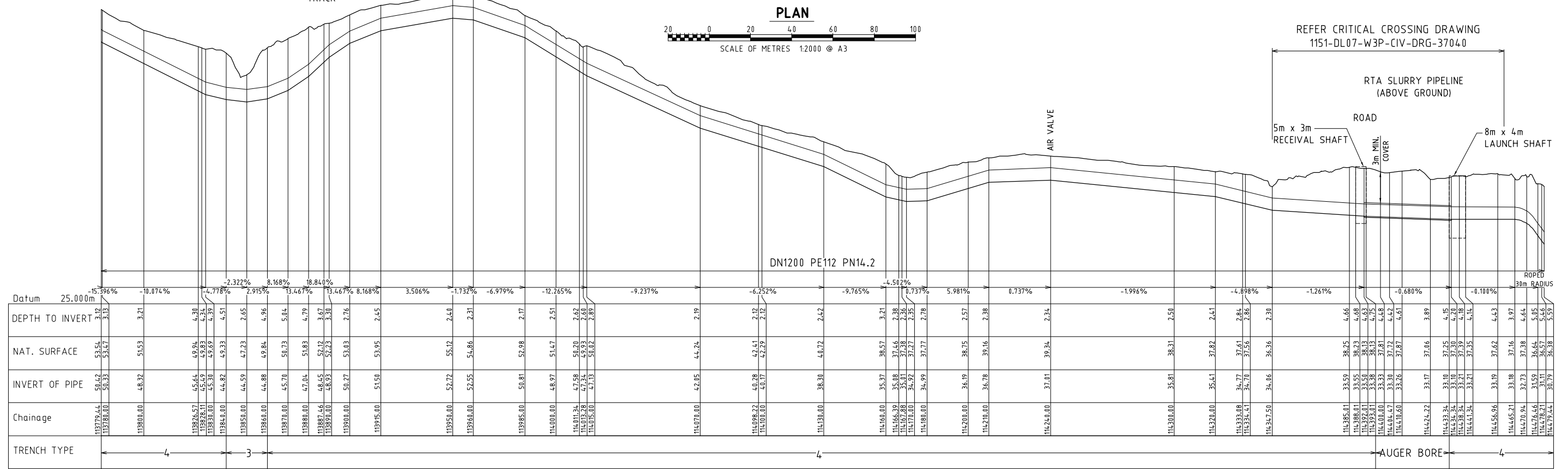


PLAN

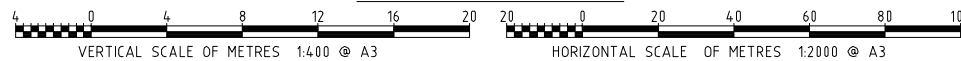
REFER CRITICAL CROSSING DRAWING 1151-DL07-W3P-CIV-DRG-37040

RTA SLURRY PIPELINE (ABOVE GROUND)

5m x 3m RECEIVAL SHAFT
3m MIN. COVER
8m x 4m LAUNCH SHAFT



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *Peter Semianiw* DATE: 27/09/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
0	27/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
136 Goondoon Street Gladstone Q 4680 PO Box 446 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 PIPELINE CH 113779.44 - 114479.44

1151-DL07-W3P-PL-DRG-67009

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	0

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ACCEPTANCE BY: PETER SEMIANIW
RPEQ APPROVAL: PETER SEMIANIW
GAWB ACCEPTANCE: PETER SEMIANIW



LEGEND:

PROPOSED:

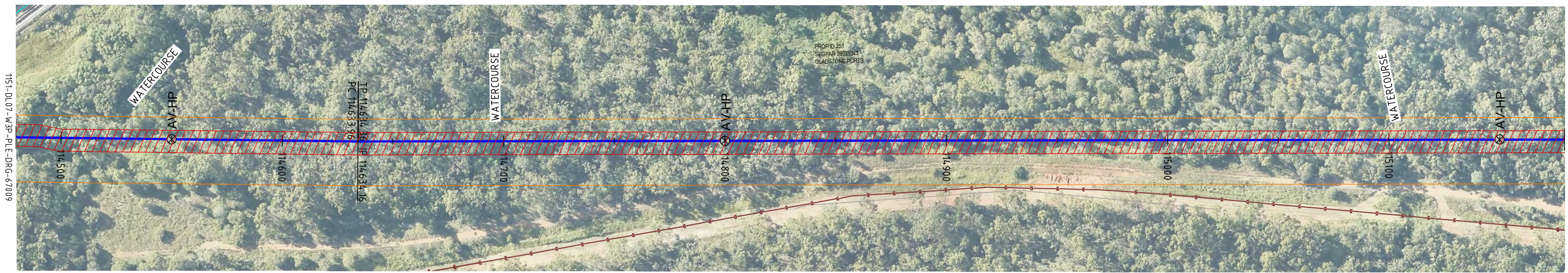
- AIR VALVE
- SCOUR VALVE
- ISOLATION VALVE
- CONTROL VALVE
- PIPELINE
- ENVELOPER PIPE

LEGEND:

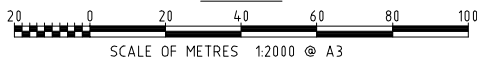
EXISTING:

- FENCE
- GAS
- ELECT'L POWER (OH or UG)
- TELSTRA CABLE
- DRAIN
- STORM WATER

- CONSTRUCTION ZONES
- LICENSED AREAS
- WATER OTHER
- SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB

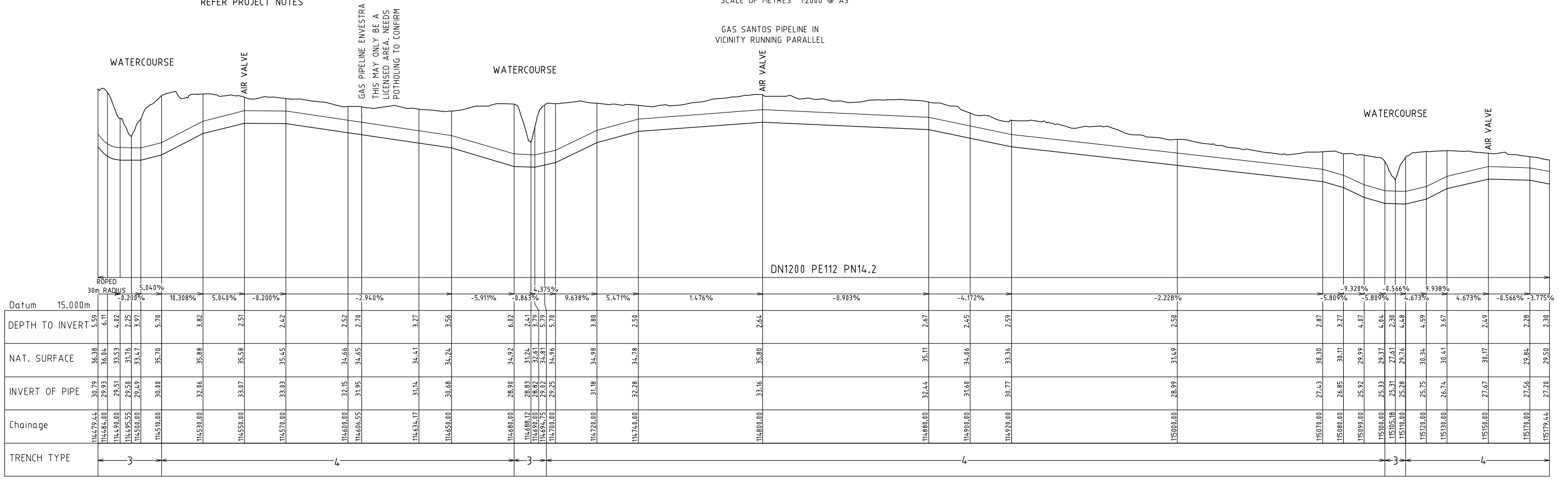


PLAN

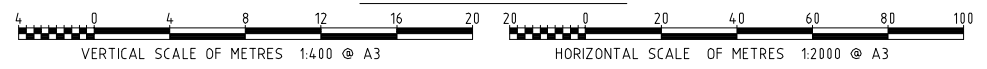


FOR TRENCH STOP DETAILS REFER PROJECT NOTES

GAS SANTOS PIPELINE IN VICINITY RUNNING PARALLEL



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMIANIW
 RPEQ NO: 15975
 DIVISION: CIVIL
 SIGNATURE: DATE: 27/09/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
3	27/09/23	LEGEND CHANGED	TA	MM	PS			
2	31/08/23	LICENSED AREA ADDED	TA	MM	PS			
1	30/08/23	STRIKE PROTECTION SLABS ADDED	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			

DO NOT SCALE

Gladstone Area Water Board
 136 Goondoon Street Gladstone Q 4680 PO Box 446 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
 DL07 PIPELINE CH 114479.44 - 115179.44

1151-DL07-W3P-PL-DRG-67010

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	3

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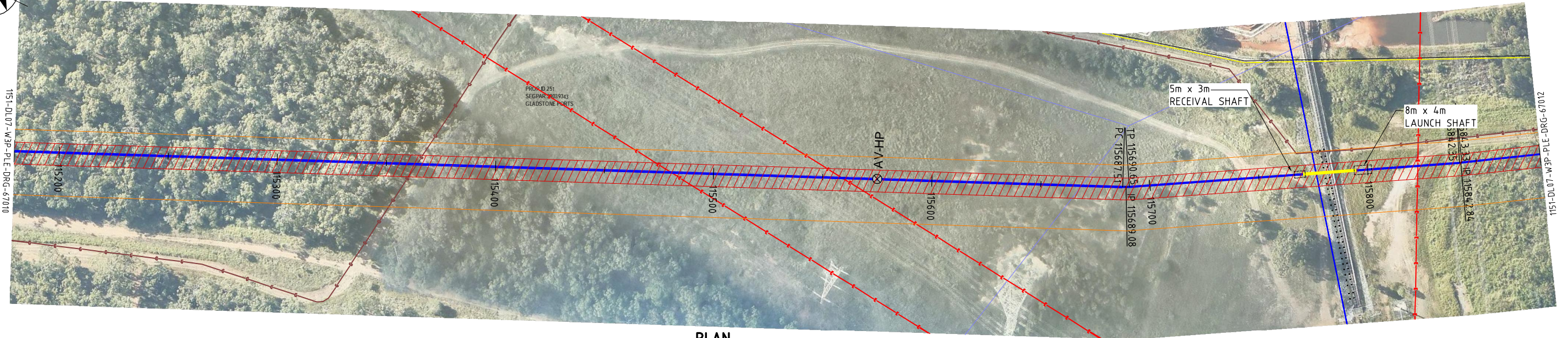
LEGEND:
PROPOSED:

- ⊗ - AIR VALVE
- ⊙ - SCOUR VALVE
- ⊗ - ISOLATION VALVE
- ⊗ - CONTROL VALVE
- - PIPELINE
- - ENVELOPER PIPE

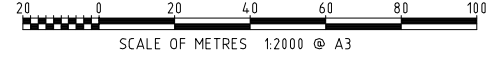
LEGEND:
EXISTING:

- / — - FENCE
- G — GAS
- E — ELECT'L POWER (OH or UG)
- T — TELSTRA CABLE
- D — DRAIN
- SW — STORM WATER
- W — WATER OTHER
- S — SEWER PIPE
- 100 ARI FLOOD LEVEL
- SURVEYED CADASTRE
- RIGHT OF WAY
- DCDB

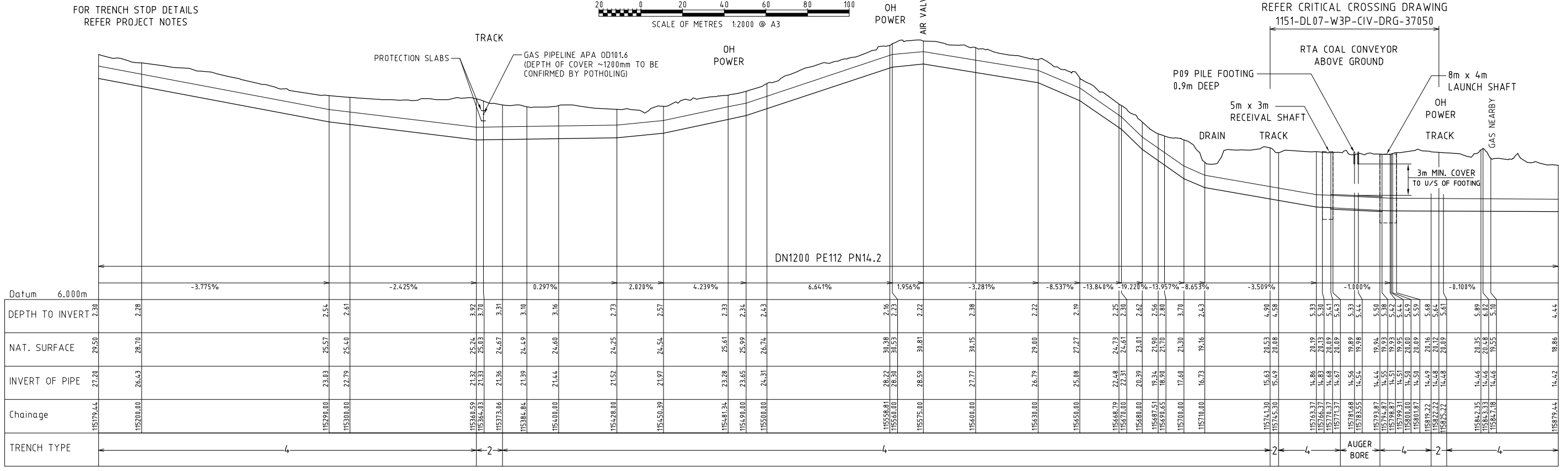
- ▨ - CONSTRUCTION ZONES
- ▨ - LICENSED AREAS



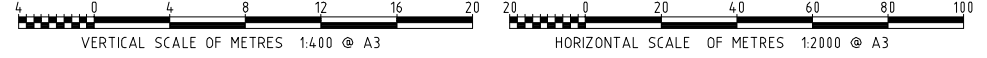
PLAN



FOR TRENCH STOP DETAILS REFER PROJECT NOTES



LONGITUDINAL SECTION



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: [Signature] DATE: 27/09/23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
3	27/09/23	LEGEND CHANGED	TA	MM	PS			
2	31/08/23	LICENSED AREA ADDED	TA	MM	PS			
1	30/08/23	STRIKE PROTECTION SLABS ADDED	TA	MM	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board
136 Goodson Street Gladstone Q 4680 PO Box 446 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 PIPELINE CH 115179.44 - 115879.44

1151-DL07-W3P-PL-DRG-67011

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	3

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LEGEND:

PROPOSED:

- ⊗ - AIR VALVE
- ⊙ - SCOUR VALVE
- ⊗ - ISOLATION VALVE
- ⊙ - CONTROL VALVE
- - PIPELINE
- - ENVELOPER PIPE

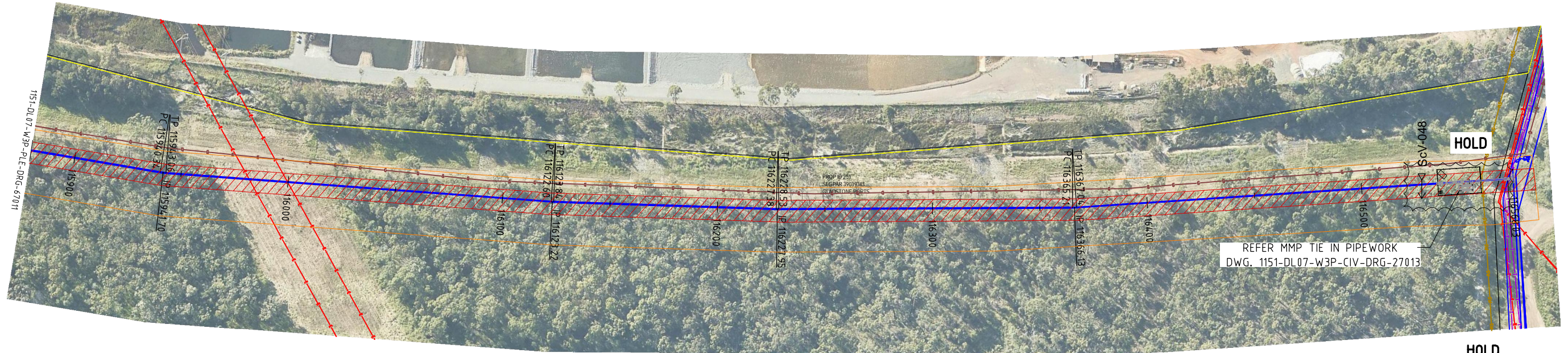
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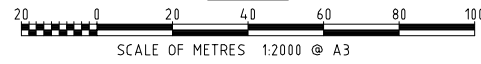
- / — - FENCE
- G — GAS
- E — ELECT'L POWER (OH or UG)
- T — TELSTRA CABLE
- — DRAIN
- SW — STORM WATER

- W — WATER OTHER
- S — SEWER PIPE
- — 100 ARI FLOOD LEVEL
- — SURVEYED CADASTRE
- — RIGHT OF WAY
- — DCDB

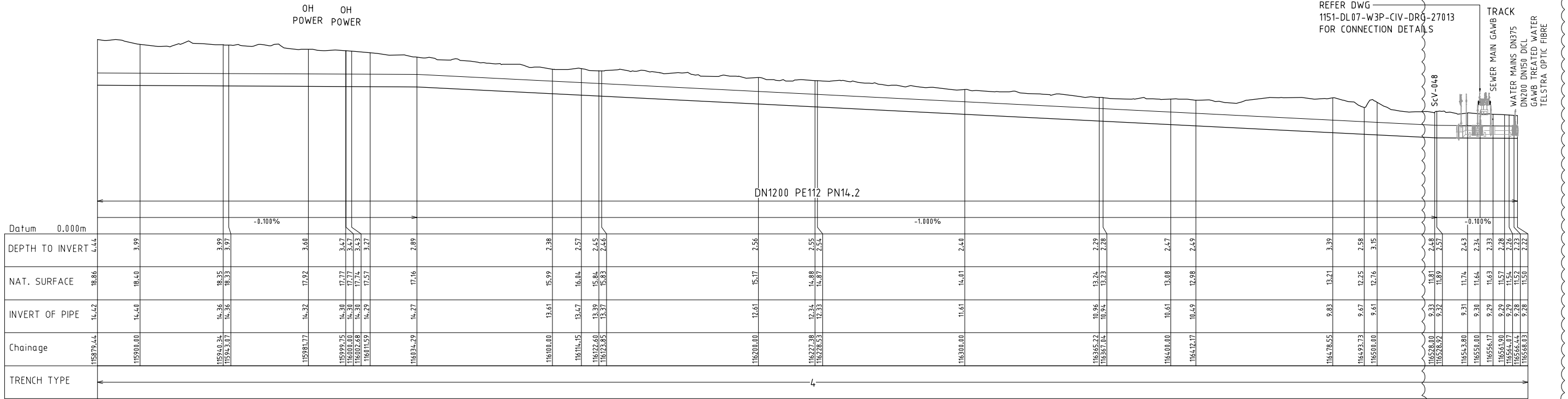
- — CONSTRUCTION ZONES
- — LICENSED AREAS



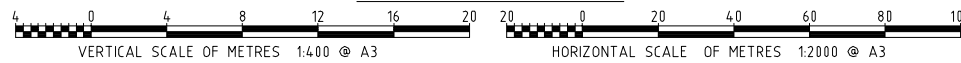
PLAN



FOR TRENCH STOP DETAILS
REFER PROJECT NOTES



LONGITUDINAL SECTION



REFER DWG
1151-DL07-W3P-CIV-DRG-27013
FOR CONNECTION DETAILS

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *[Signature]* DATE: 27/09/23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
0	27/09/23	ISSUED FOR CONSTRUCTION	TA	MM	PS			



Gladstone Area Water Board

136 Goodson Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

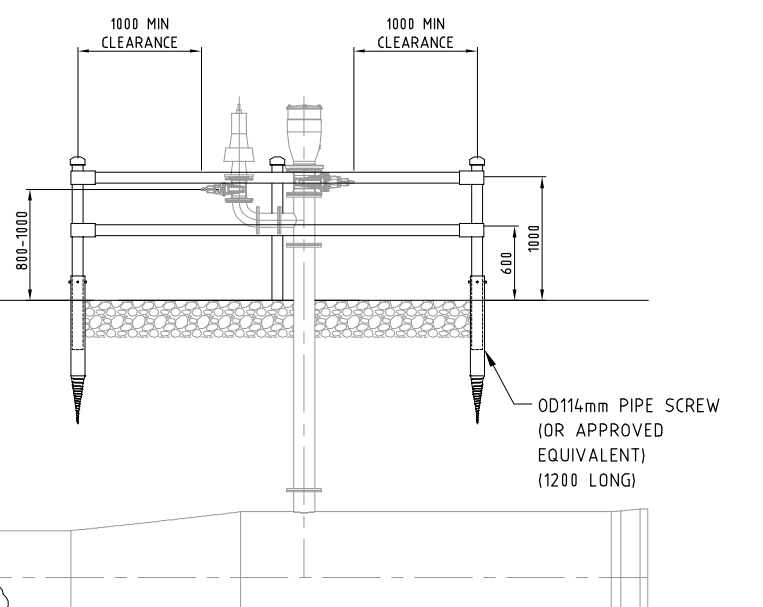
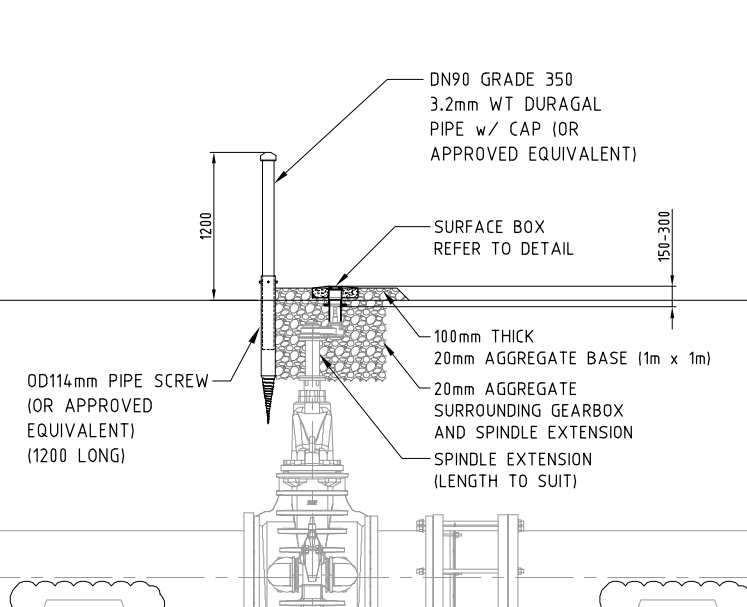
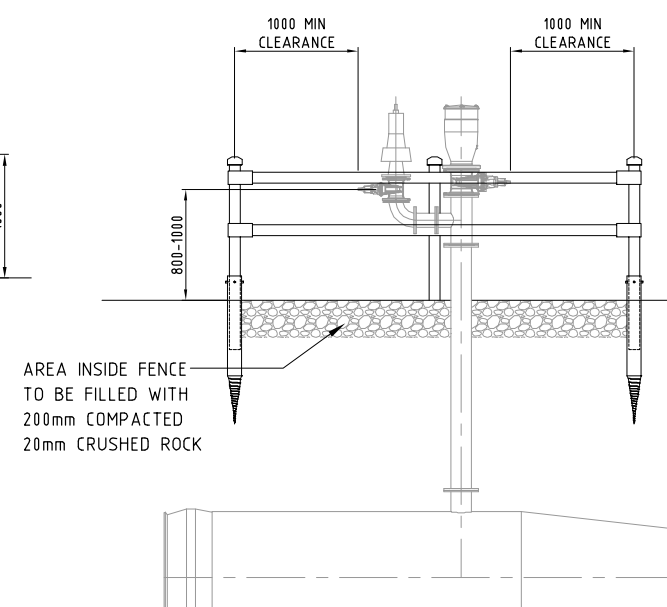
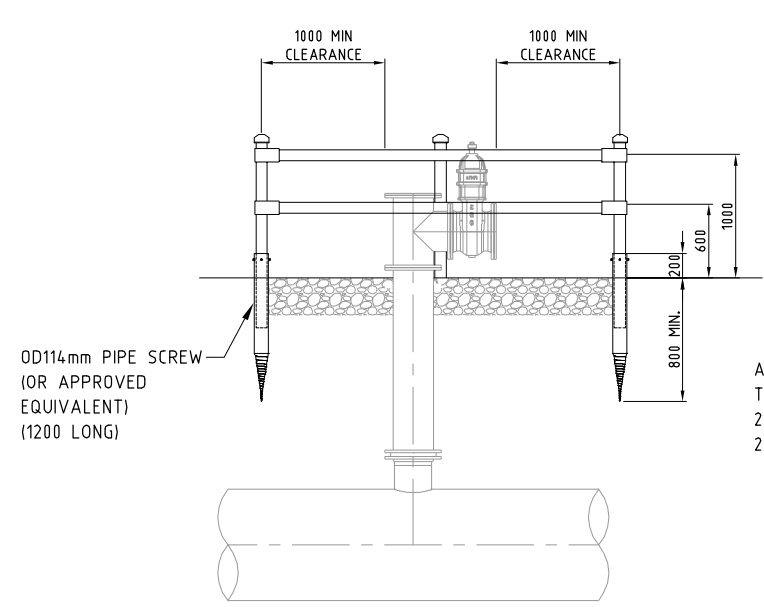
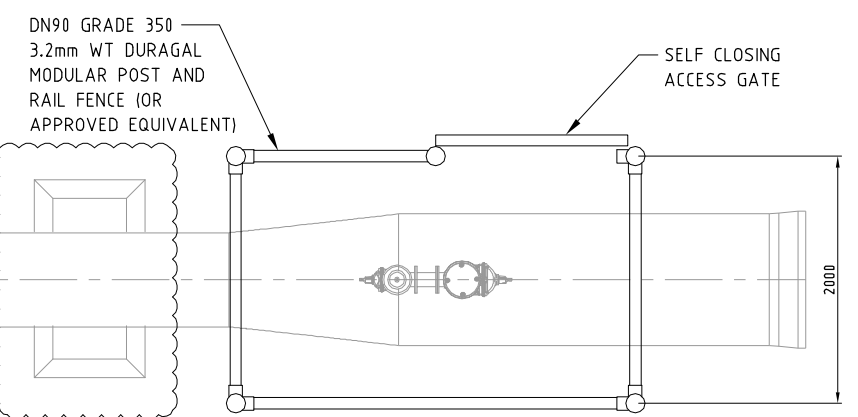
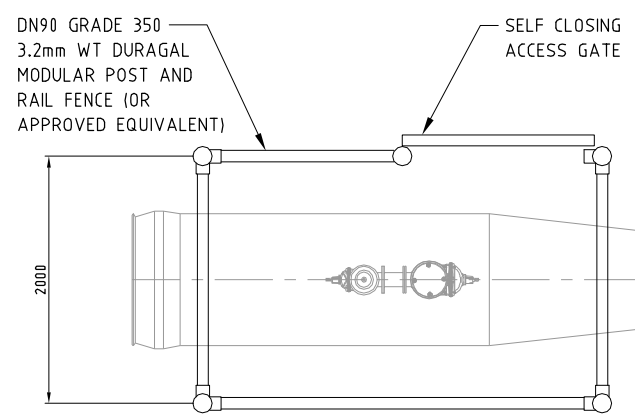
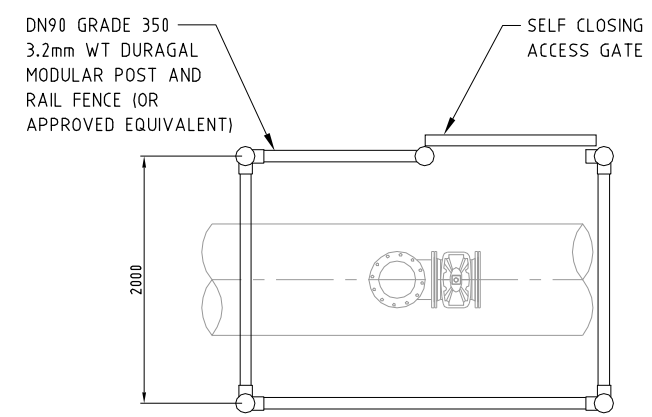
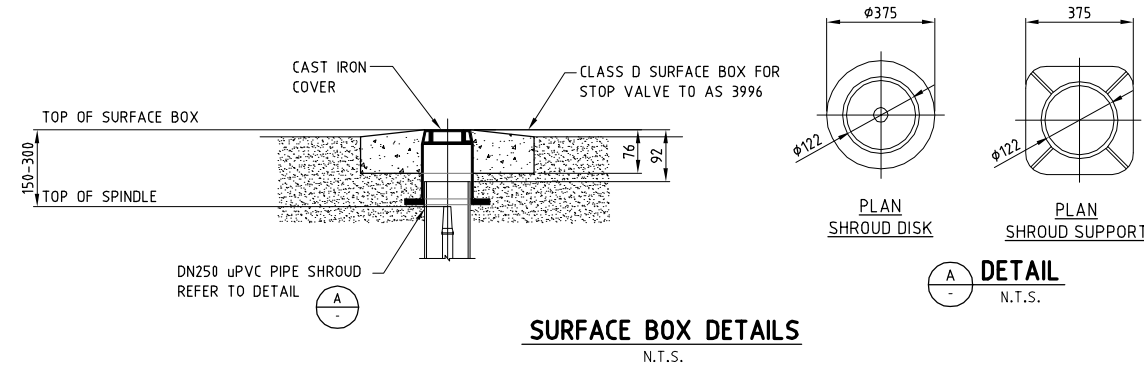
FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 PIPELINE CH 115879.44 - 116568.03

DRAWN BY: TED ALVARADO 27/09/23
DESIGNED BY: MICHAEL MARIES 27/09/23
REVIEWED BY: PETER SEMIANIW 27/09/23
ACCEPTANCE BY: RPEQ APPROVAL
GAWB ACCEPTANCE

1151-DL07-W3P-PL-DRG-67012
PROJECT No. GAWB # A3 DRAWING No. XXX-X-XXXX SCALE AS NOTED REV 0

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TYPICAL FENCE ENCLOSURE FOR SCOUR VALVE
SCALE: 1:60 @ A3

NOTES:
FENCE ENCLOSURE AS PER AS 1657
FOR MARKER POST DETAILS REFER DRAWING 1151-DL00-W3P-CIV-DRG-10003

TYPICAL FENCE ENCLOSURE FOR AIR VALVE & ISOLATION VALVE
SCALE: 1:60 @ A3

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMIANIW
RPEQ NO: 15975
DIVISION: CIVIL
SIGNATURE: *[Signature]* DATE: 06 / 09 / 23

ISSUED FOR CONSTRUCTION



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT. APP.	GAWB ACC.	REFERENCE DRAWINGS	NUMBER
1	06/09/23	SUPPORT BLOCKS MODIFIED	TA	AS	PS			
0	17/08/23	ISSUED FOR CONSTRUCTION	TA	AS	PS			



Gladstone Area Water Board
136 Goondoon Street Gladstone Q 4680 PO Box 466 Gladstone Q 4680 Tel: (07) 4976 3000 ABN: 88 409 667 181

DESIGNED BY: TED ALVARADO 04/05/23
 DESIGNED BY: ANDREW SINN 04/05/23
 REVIEWED BY: PETER SEMIANIW 04/05/23

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ACCEPTANCE BY: [Signature]

FITZROY TO GLADSTONE PIPELINE PROJECT
STANDARD DETAILS
TYPICAL POST AND RAIL ENCLOSURE

1151-DL00-W3P-CIV-DRG-10010

PROJECT No.	SIZE	DRAWING No.	SCALE	REV
GAWB #	A3	XXX-X-XXXX	AS NOTED	1

DO NOT SCALE

OUR WATER STORY, IS YOUR WATER STORY

Attachment B – Traffic Management Plan (Appendix A)

Appendix A - Temporary Site Access Routes

Extra land outside the FGP RoW is required for vehicle, equipment and personnel to gain temporary access to the pipeline RoW as construction progresses, in particular due to the following constraining circumstances:

- Trenchless crossing installation associated with significant environmental or infrastructure values, with no ability to traverse the RoW across the trenchless section due to significant environmental or infrastructure values (refer to blue line items in Table A1 below); and
- Other existing constraints within the RoW which limit accessibility (e.g., wet area and infrastructure bypasses, including the Rockhampton Ring Road as per second blue line item in Table A1 below).

The currently proposed temporary site access routes (green and white line items) and the respective landholder (and other interests) are listed in chainage order in Table A1, with significant access constraint locations giving rise to many of the additional access requirements also indicated (blue line items).

It is noted the list of proposed routes may be amended over time as construction progresses. These locations have been (and potential future additional access routes required will be) sited based on the following guiding principles:

- Existing roads / tracks will be used in accordance with any relevant road authority approvals, landholder agreements, exemptions and / or accepted development requirements; and
- Where existing roads / tracks are not currently available, but a RoW constraining feature is present (e.g., dams, wet areas), equipment will be driven around the feature (i.e., "blades up") only. No formal track is to be developed (e.g., via grading, laying gravel etc), although, localised filling of divots or use of bog mats may occur, and the area will be "made good" following use, in accordance with documented landholder agreements.

Table A1: Currently proposed temporary access routes

Chainage	Route Description	Landholder
Northern Section		
0 & 700	Ski Gardens Road	RRC
1100	Laurel Bank Road	RRC
3750	Ridgelands Road	TMR
5350	Cranston Road	RRC
7100	Lions Lagoon trenchless crossing	
6200 to 7400	Lions Lagoon bypass	Private (Bell, Price & McMaster) and RRC (within Sunwater easement)
8850	Stracey Road	RRC
10340	Nine Mile Road	RRC
12900	Malchi Nine Mile Road, off Fairy Bower Road	RRC
14600	Wet area bypass	Private (Greenhalgh)
SGIC SDA Section		
17200	Wet area bypass	Private (Kirk)
17700	Fogarty Road	RRC
18200	Titman Road	RRC
18300	Newman Road	RRC
20100	Rockhampton Ring Road	
20100	Rockhampton Ring Road bypass, off Nelson Street	Private (Brown) and RRC
21700	Capricorn Highway trenchless crossing	
22000	Old Capricorn Hwy	RRC
23500	Bruce Highway trenchless crossing	
24000	Unnamed road off Old Bruce Highway	RRC (although used by Private – Coombs)
27800	Off Whyte Road	Private (Williams) and RRC
28700	Gavial Creek trenchless crossing	
29440	River Road	RRC
29470	Roope Road	RRC
30100	Wet area bypass	Private (Miller & Pierce)
31500	Off Kime Road	Private (West) and / or RRC
36000	Georges Road	RRC
40250	Bob's Creek trenchless crossing	

Chainage	Route Description	Landholder
52600	Off Magazine Road	Private (Magowra) and RRC
53300	Wet area bypass	Private (Magowra) and TMR
55000	Wet area bypass	Private (Magowra)
56500	Inkerman Creek trenchless crossing	
57700	Bajool Port Alma Road	TMR
65050	Off Twelve Mile Road	Private (Howkins / Butler) and RRC
65100	Twelve Mile Creek trenchless crossing	
65200	Twelve Mile Road	RRC
65950	Marble Creek trenchless crossing	
68500	Twelve Mile Road	RRC
71900	Horrigan Creek trenchless crossing	
72500	Off Raglan Station Road	Department of Resources and GRC
73000	Raglan Creek trenchless crossing	
76400	Off Raglan Station Road	Private (Christensen & Gildavis) and GRC
81300	Reedy Creek Road	GRC
87000	Wet area bypass	Private (Achay)
88300	Dart Creek Road	GRC
89700	Wet area bypass	Private (Sheppard) (within Powerlink easement)
91500	Wet area bypass	Private (Emmerton)
91800	Popenia Road	GRC
93800	Gostevsky Road	GRC
GSDA Section		
95900	Narrows Road	GRC
97400	Gladstone Mt Larcom / North Coast Rail (Aldoga) trenchless crossing	
99300	Off Gladstone Mt Larcom Road	MEDQ (LNG pipeline access)
100100	Wet area bypass	MEDQ
101100	Blackwater System (East End Mine Rail Link trenchless crossing	
101200	Wet area bypass	CG
102400 to 103500	Larcom Creek bypass	CG, DoR (Larcom Creek), GRC (Aldoga Road) (various easements in this location)
102500	Larcom Creek trenchless crossing	
106800	Wet area bypass	GRC
107200	Myrlea Road	GRC
108400	Aldoga Road	GRC
109900	Wet area bypass	GPC
110200	Mt Larcom Yarwun Road / North Coast Rail (Yarwun) trenchless crossing	
111300	Halls Road	GRC
111700	Gladstone Mt Larcom Road trenchless crossing	
112200	Off Targinnie Road	GPC (within GAWB easement)
112500	Targinnie Road trenchless crossing	
112600	Off Targinnie Road	CG (Ergon powerline access)
112600	Gladstone Mt Larcom Road trenchless crossing	
113200	Lindherr Road, off Calliope River Road	GPC and GRC (RTA pipeline access)
114400	RTA pipeline trenchless crossing	
115700	RTA conveyor bypass	GPC
116200	RTA coal conveyor trenchless crossing	
116567	Mt Miller Road	TMR

KEY:

	Pipeline constraining feature resulting in a non-continuous RoW
	Road reserve only
	Other landholder agreements required