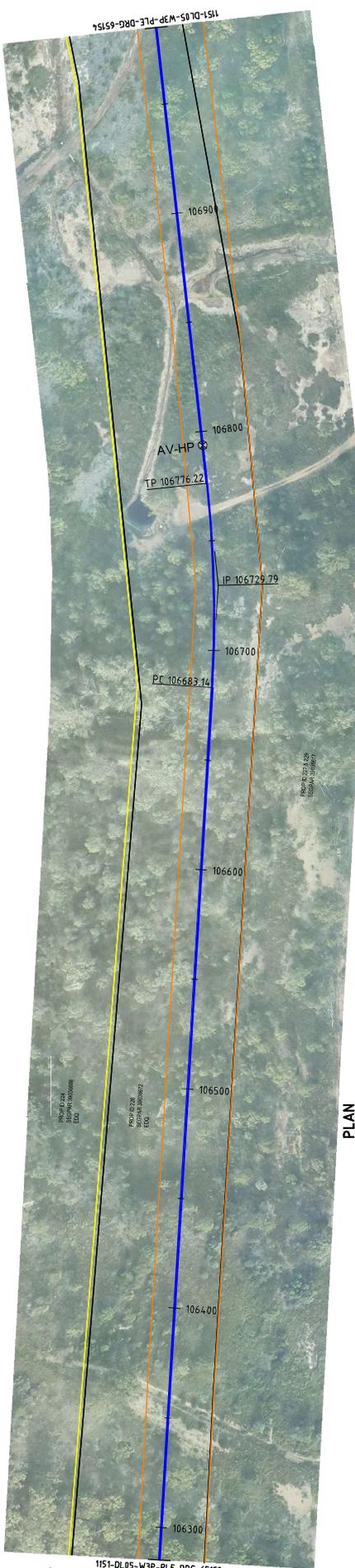


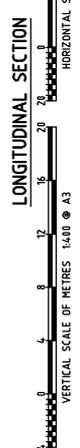


- LEGEND:**
- PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE
- EXISTING:**
- FENCE
 - GAS
 - ELECT. POWER (PH or IIG)
 - TELSTRA CABLE
 - DRAIN
 - STORM WATER
- CONSTRUCTION ZONES**
- CONSTRUCTION ZONES
 - LICENSED AREAS
- OTHER:**
- WATER OTHER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



FOR TRENCH STOP DETAILS
REFER PROJECT NOTES

CHAINAGE	INVERT OF PIPE	NAT. SURFACE	DEPTH TO INVERT	GRADIENT	PIPE TYPE
106285.10	52.23	55.48	3.25	-1.871%	45.00m
106300.00	52.23	55.48	3.25		
106310.00	52.23	55.48	3.25		
106320.00	52.23	55.48	3.25		
106330.00	52.23	55.48	3.25		
106340.00	52.23	55.48	3.25		
106350.00	52.23	55.48	3.25		
106360.00	52.23	55.48	3.25		
106370.00	52.23	55.48	3.25		
106380.00	52.23	55.48	3.25		
106390.00	52.23	55.48	3.25		
106400.00	52.23	55.48	3.25		
106410.00	52.23	55.48	3.25		
106420.00	52.23	55.48	3.25		
106430.00	52.23	55.48	3.25		
106440.00	52.23	55.48	3.25		
106450.00	52.23	55.48	3.25		
106460.00	52.23	55.48	3.25		
106470.00	52.23	55.48	3.25		
106480.00	52.23	55.48	3.25		
106490.00	52.23	55.48	3.25		
106500.00	52.23	55.48	3.25		
106510.00	52.23	55.48	3.25		
106520.00	52.23	55.48	3.25		
106530.00	52.23	55.48	3.25		
106540.00	52.23	55.48	3.25		
106550.00	52.23	55.48	3.25		
106560.00	52.23	55.48	3.25		
106570.00	52.23	55.48	3.25		
106580.00	52.23	55.48	3.25		
106590.00	52.23	55.48	3.25		
106600.00	52.23	55.48	3.25		
106610.00	52.23	55.48	3.25		
106620.00	52.23	55.48	3.25		
106630.00	52.23	55.48	3.25		
106640.00	52.23	55.48	3.25		
106650.00	52.23	55.48	3.25		
106660.00	52.23	55.48	3.25		
106670.00	52.23	55.48	3.25		
106680.00	52.23	55.48	3.25		
106690.00	52.23	55.48	3.25		
106700.00	52.23	55.48	3.25		
106710.00	52.23	55.48	3.25		
106720.00	52.23	55.48	3.25		
106730.00	52.23	55.48	3.25		
106740.00	52.23	55.48	3.25		
106750.00	52.23	55.48	3.25		
106760.00	52.23	55.48	3.25		
106770.00	52.23	55.48	3.25		
106780.00	52.23	55.48	3.25		
106790.00	52.23	55.48	3.25		
106800.00	52.23	55.48	3.25		
106810.00	52.23	55.48	3.25		
106820.00	52.23	55.48	3.25		
106830.00	52.23	55.48	3.25		
106840.00	52.23	55.48	3.25		
106850.00	52.23	55.48	3.25		
106860.00	52.23	55.48	3.25		
106870.00	52.23	55.48	3.25		
106880.00	52.23	55.48	3.25		
106890.00	52.23	55.48	3.25		
106900.00	52.23	55.48	3.25		
106910.00	52.23	55.48	3.25		
106920.00	52.23	55.48	3.25		
106930.00	52.23	55.48	3.25		
106940.00	52.23	55.48	3.25		
106950.00	52.23	55.48	3.25		
106960.00	52.23	55.48	3.25		
106970.00	52.23	55.48	3.25		
106980.00	52.23	55.48	3.25		
106990.00	52.23	55.48	3.25		
107000.00	52.23	55.48	3.25		



PLANS AND DOCUMENTS referred to in the SDA APPROVAL

SDA approval: APC2024/007

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
MICHAEL PETER SEMMANN
DIVISION: CIVIL
DATE: 26.10.23

SIGNATURE: *[Signature]*

ISSUED FOR CONSTRUCTION

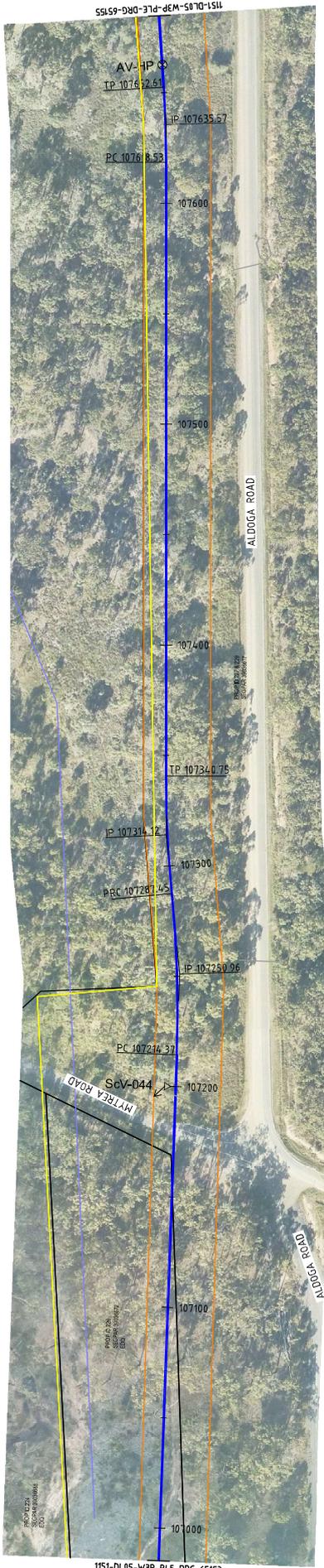
Gladstone Area Water Board		DRAWN: TED ALVARADO 26/09/23		CHECKED: MICHAEL MARRIS 26/09/23		DESIGNED: PETER SEMMANN 26/09/23		APPROVED: [Signature]	
FITZROY TO ELADSTONE PIPELINE PROJECT		DL05 PIPELINE CH 106285.10 - 106385.10		PROJECT No. A3		SCALE XXX-X-XXXX		REV 1	
115-DL05-W3P-PLC-DRG-65152		PROJECT No. A3		SCALE XXX-X-XXXX		AS NOTED		1	
THE DRAWING IS THE PROPERTY OF GLADSTONE AREA WATER BOARD AND IS NOT TO BE REPRODUCED OR USED WITHOUT THE WRITTEN PERMISSION OF GLADSTONE AREA WATER BOARD. SIGNATURE AND SEAL OF REGISTERED PROFESSIONAL ENGINEER REQUIRED.		BMD		McCONNELL DOWELL CREATIVE CONSTRUCTION		W3 Plus Consulting		CONSTRUCTION SERVICES	
REV	DATE	REVISION DESCRIPTION	NO.	DATE	BY	CHKD	APP.	NO.	DATE
1	26/09/23	LEGEND CHANGED	TA	PH	PS				
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	PH	PS				



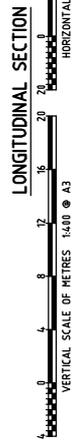
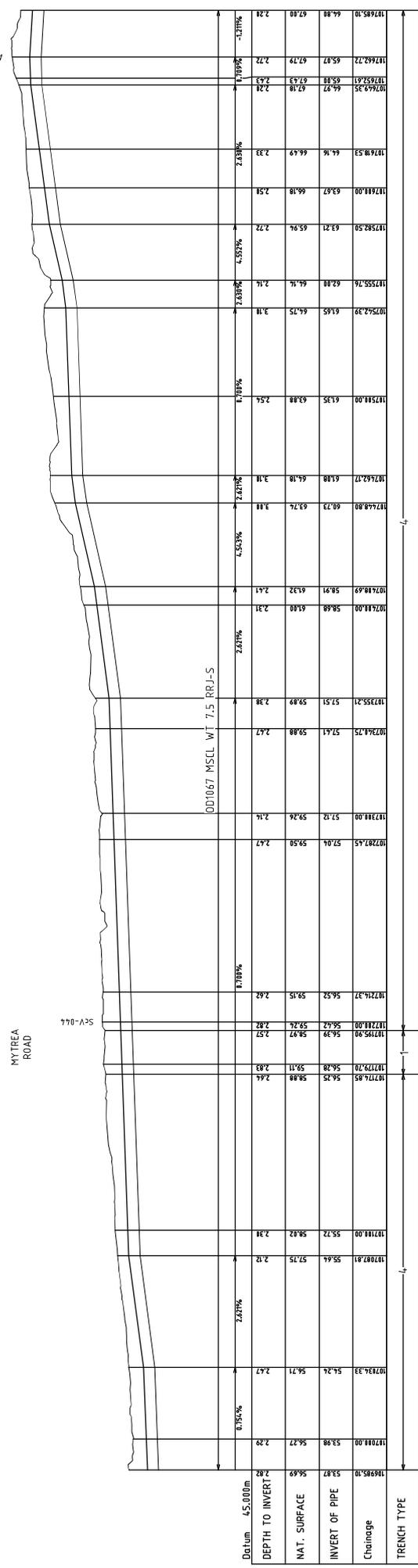
LEGEND: PROPOSED:
 - AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE

LEGEND: EXISTING:
 - FENCE
 - GAS
 - ELECT. POWER (PH or IUG)
 - TEL/STRA CABLE
 - DRAIN
 - STORM WATER

LEGEND: CONSTRUCTION ZONES - LICENSED AREAS
 - WATER OTHER
 - SEWER PIPE
 - 300mm FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCDB



FOR TRENCH DETAILS
 REFER PROJECT NOTES



PLANS AND DOCUMENTS referred to in the SDA APPROVAL
 SDA approval: APC2024/007

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 PETER SEMMANN
 DIVISION: CIVIL
 SIGNATURE: [Signature]
 DATE: 26.10.23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	BY	CHECKED	DATE	SCALE	AS NOTED
1	26/10/23	LEGEND CHANGED	TA	PH	PS		
0	05/09/23	ISSUED FOR CONSTRUCTION	TA	PH	PS		

PROJECT No.	GAUGE #	SIZE	FORMWORK
115-DL-05-W3P-PLC-DRG-65154		A3	XXX-X-XXXX

DRAWN BY	CHECKED BY	DATE	PROJECT No.
TED ALVARADO	MICHAEL HARRIS	26/09/23	115-DL-05-W3P-PLC-DRG-65154

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND	DATE
PETER SEMMANN	26/10/23

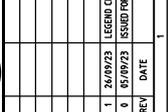
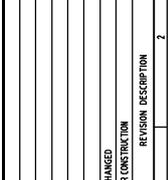
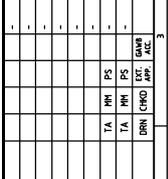
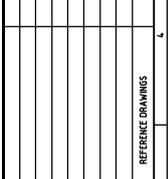
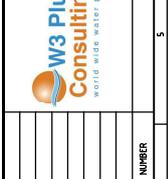
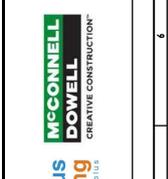
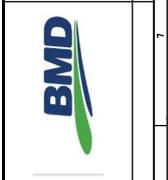
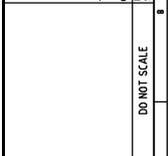
PROJECT No.	GAUGE #	SIZE	FORMWORK
115-DL-05-W3P-PLC-DRG-65154		A3	XXX-X-XXXX

PROJECT No.	GAUGE #	SIZE	FORMWORK
115-DL-05-W3P-PLC-DRG-65154		A3	XXX-X-XXXX

Gladstone Area Water Board
 FITZROY TO ELADSTONE PIPELINE PROJECT
 DL05 PIPELINE CH 106985.10 - 107685.10

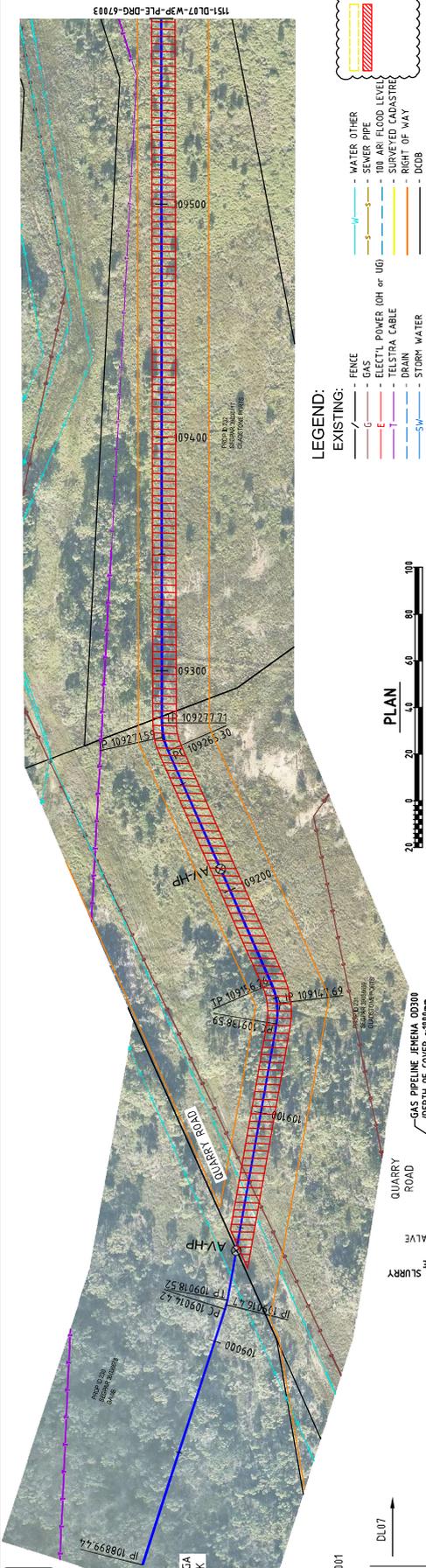
Drawn: TED ALVARADO 26/09/23
 Checked: MICHAEL HARRIS 26/09/23
 Approved: PETER SEMMANN 26/10/23

THE DRAWING IS THE PROPERTY OF GLADSTONE AREA WATER BOARD AND IS NOT TO BE REPRODUCED OR USED WITHOUT ITS WRITTEN PERMISSION. SIGNATURE MUST BE OBTAINED BY REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND.





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



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

FOR TRENCH STOP DETAILS
REFER PROJECT NOTES

AIR VALVE

AIR VALVE

AIR VALVE

AIR VALVE

AIR VALVE

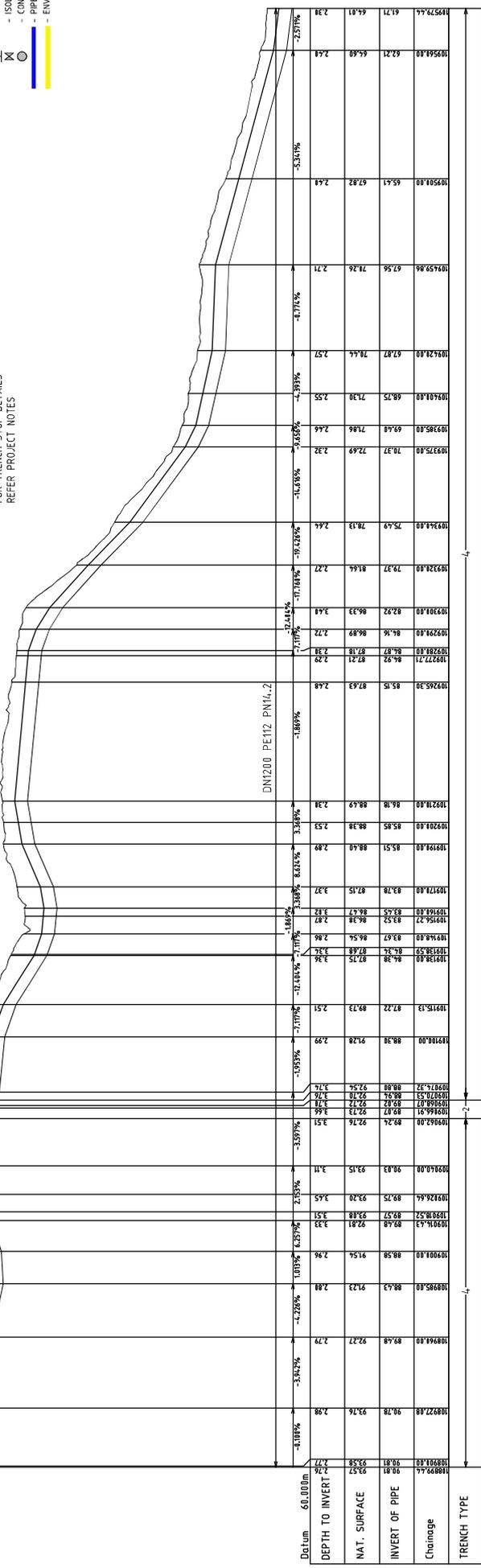
PROTECTION SLABS
TO BE CONFIRMED BY POtholing

PROTECTION SLABS

PROTECTION SLABS

PROTECTION SLABS

PROTECTION SLABS



**PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL**

SDA approval: APC2024/007

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMMANN
NO. OF REGISTRATION: 12448
DIVISION: CIVIL

SIGNATURE: *Peter Semmann* DATE: 27.08.23

ISSUED FOR CONSTRUCTION

REV	DATE	REVISION DESCRIPTION	BY	CHKD	DATE	NO	NUMBER
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	MM	PS	2	1
1	30/08/23	STAKE PROTECTION SLABS ADDED	TA	MM	PS	2	2
2	31/08/23	LEGEND CHANGED	TA	MM	PS	2	3
3	27/09/23	LEGEND CHANGED	TA	MM	PS	2	4

W3 Plus Consulting world wide water plus		McCONNELL DOWELL CREATIVE CONSTRUCTION		BMD	

		FITZROY TO GLADSTONE PIPELINE PROJECT DL07 PIPELINE CH 108893.44-109119.44	
DRAWN: TED ALVARADO CHECKED: MICHAEL HARRIS BY: PETER SEMMANN	27/09/23 27/09/23 27/09/23	27/09/23 27/09/23 27/09/23	PROJECT No. 1151-DL07-W3P-CIV-DRG-27002 SCALE XXX-X-XXXX DRAWING No. A3

Gladstone Area Water Board

1151-DL07-W3P-CIV-DRG-27002

PROJECT No. A3 XXX-X-XXXX

SCALE AS NOTED

REV 3

THIS DRAWING IS THE PROPERTY OF GLADSTONE AREA WATER BOARD AND IS NOT TO BE REPRODUCED OR USED WITHOUT THE WRITTEN PERMISSION OF GLADSTONE AREA WATER BOARD. SIGNATURE AND SEAL OF REGISTERED PROFESSIONAL ENGINEER

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMMANN
NO. OF REGISTRATION: 12448
DIVISION: CIVIL

SIGNATURE: *Peter Semmann* DATE: 27.08.23

ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMMANN
NO. OF REGISTRATION: 12448
DIVISION: CIVIL

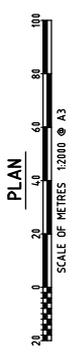
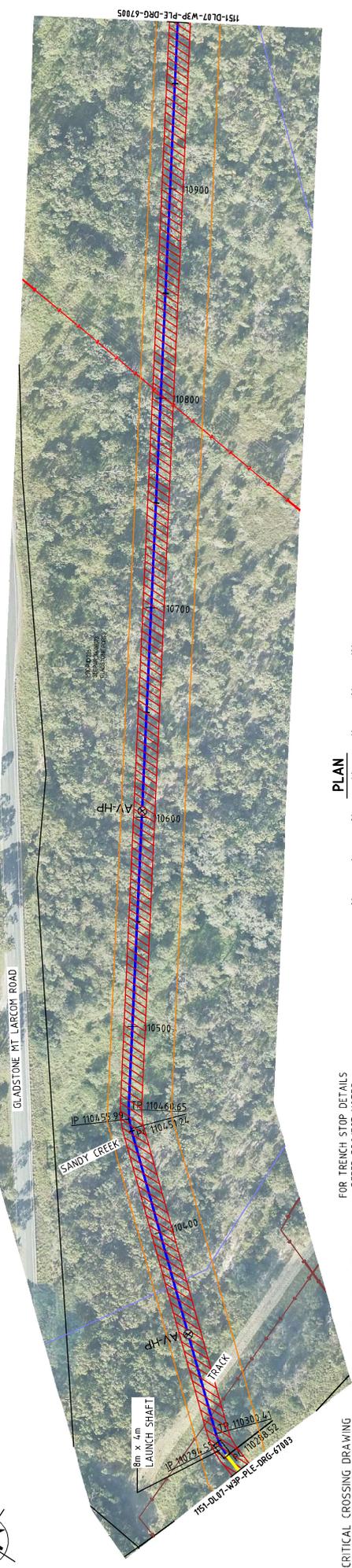
SIGNATURE: *Peter Semmann* DATE: 27.08.23

ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMMANN
NO. OF REGISTRATION: 12448
DIVISION: CIVIL

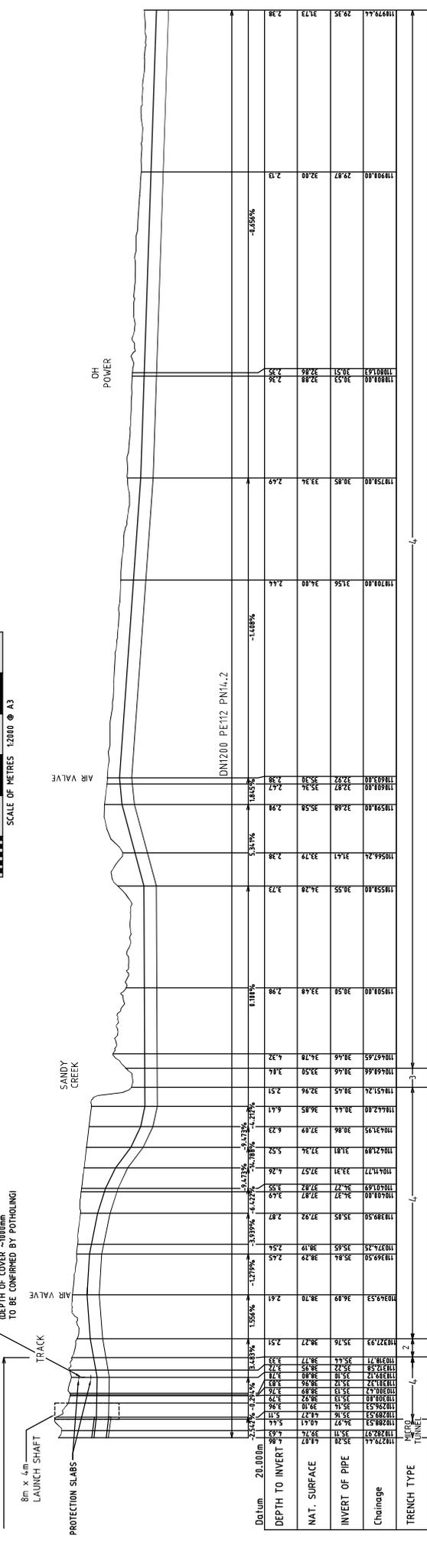


- LEGEND: PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE
- LEGEND: EXISTING:**
- FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELESTRA CABLE
 - DRAIN
 - STORM WATER
- LEGEND: CONSTRUCTION ZONES**
- CONSTRUCTION AREAS
 - LICENSED AREAS
- LEGEND: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



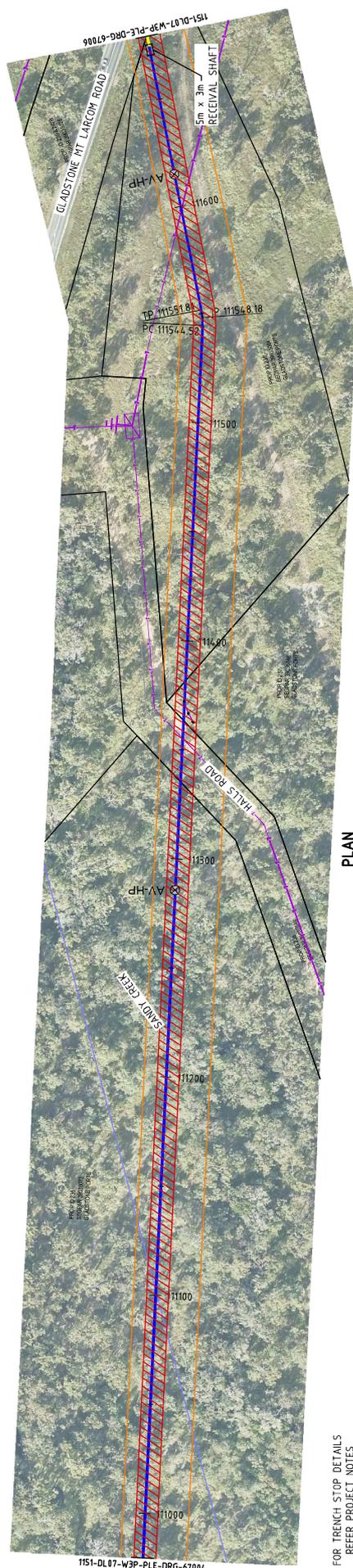
REFER CRITICAL CROSSING DRAWING 1151-DL07-W3P-CIV-DRG-37010 TO BE COMPLETED BY POTROUINGI

FOR TRENCH STOP DETAILS REFER PROJECT NOTES

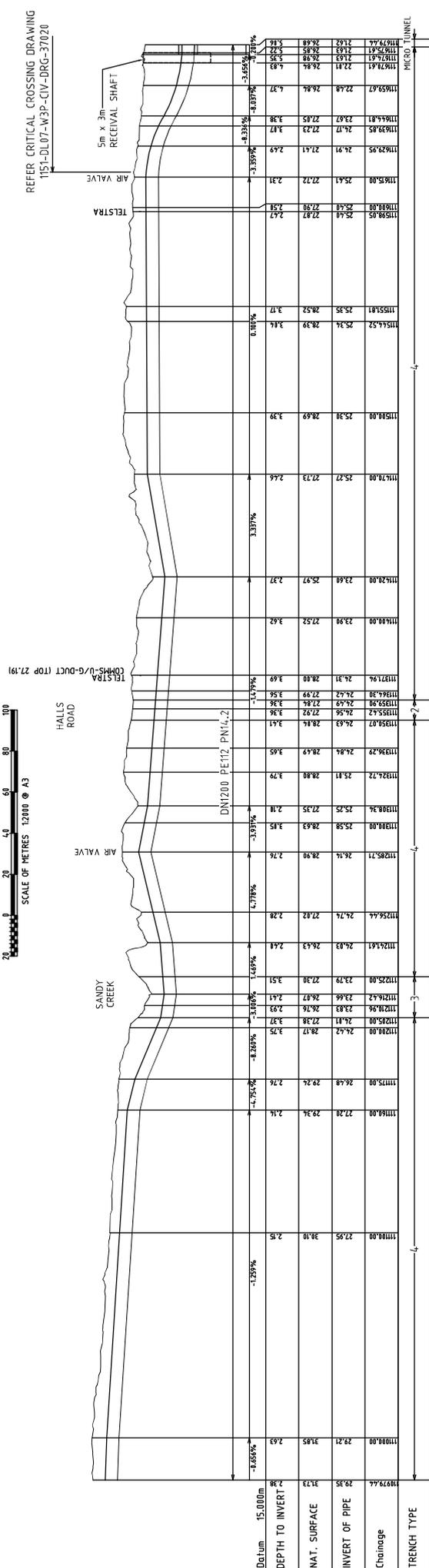




- LEGEND:**
- PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE
- EXISTING:**
- FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELESTRA CABLE
 - DRAIN
 - STORM WATER
 - WATER OTHER
 - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF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



FOR TRENCH STOP DETAILS
REFER PROJECT NOTES



ISSUED FOR CONSTRUCTION

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMMANN
 NO: 12574
 DIVISION: CIVIL
 SIGNATURE: [Signature]
 DATE: 27.08.23

PLANS AND DOCUMENTS referred to in the SDA APPROVAL
 SDA approval: APC2024/007

Gladstone Area Water Board
 DRAWN: TED ALVARADO 27/09/23
 CHECKED: MICHAEL HARRIS 27/09/23
 DESIGNED: PETER SEMMANN 27/09/23
 PROJECT # 115-DL07-W3P-PIE-DRG-C7005
 SHEET # 001 OF 001

W3 Plus Consulting
 CREATIVE CONSTRUCTION

McConnell Dowell
 CREATIVE CONSTRUCTION

BMD

COMPLETION SERVICES

REV	DATE	REVISION DESCRIPTION	ISSUED FOR CONSTRUCTION	DATE	SCALE	BY
0	27/09/23	ISSUED FOR CONSTRUCTION	TA	PH	PS	0

DO NOT SCALE

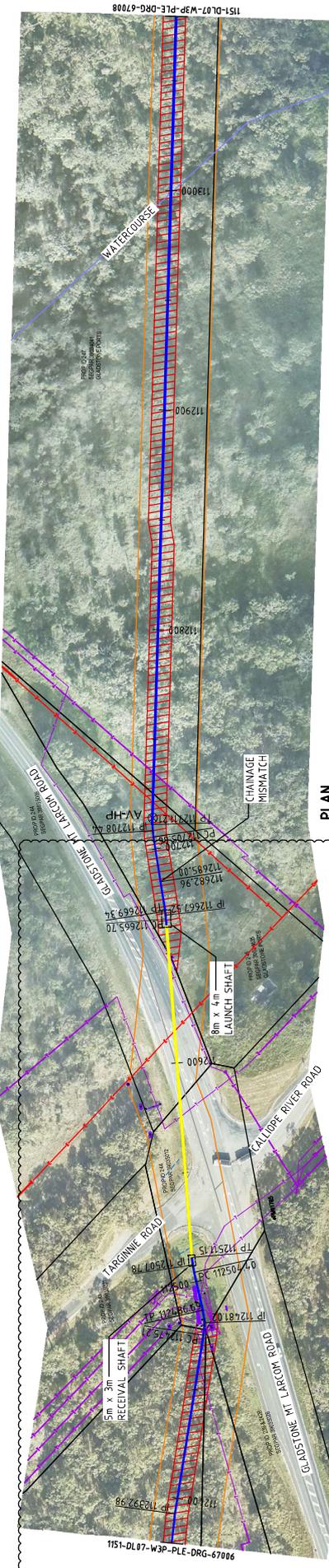
VERTICAL SCALE OF METRES 1:400 @ A3
 HORIZONTAL SCALE OF METRES 1:2000 @ A3

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 AIR FLOOD LEVEL
 SURVEYED CADASTRE
 RIGHT OF WAY
 DDOB

LEGEND:
 CONSTRUCTION ZONES
 LICENSED AREAS



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

FOR TRENCH STOP DETAILS
REFER PROJECT NOTES

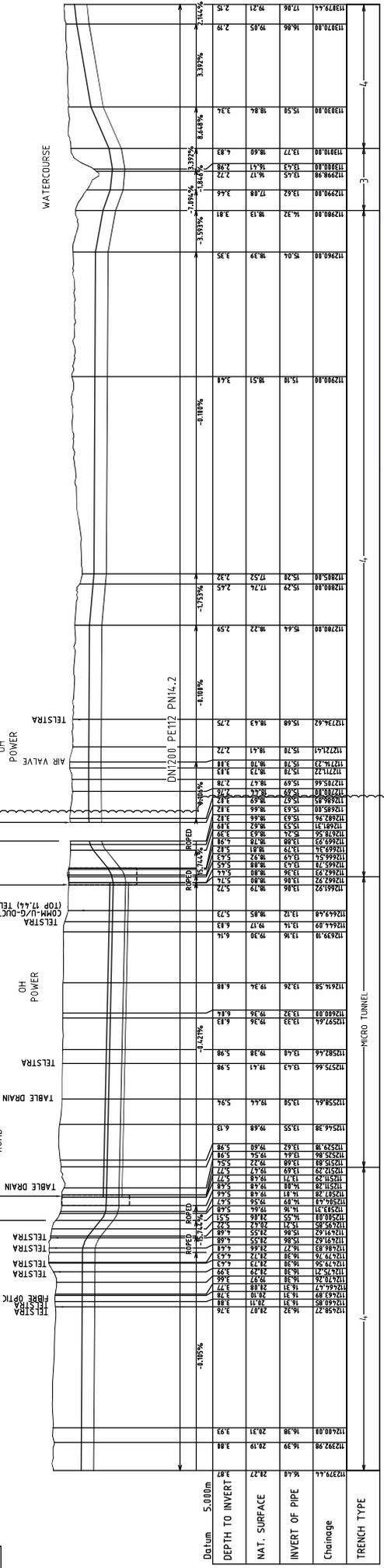
5m x 3m RECEIVAL SHAFT
 TELSTRA CABLE
 POTENTIALLY LOTS IN THE
 AREA NEEDS POTHOLES

8m x 4m LAUNCH SHAFT
 GLADSTONE MT
 LARCOM ROAD

CHAINAGE MISMATCH
 OH POWER
 AIR VALVE
 TELSTRA

PLAN
 SCALE OF METRES 1:2000 @ A3

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



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMMANN
 NO: 12574
 DIVISION: CIVIL
 SIGNATURE: [Signature]
 DATE: 20.10.24

PLANS AND DOCUMENTS referred to in the SDA APPROVAL
 SDA approval: APC2024/007

ISSUED FOR CONSTRUCTION

Gladstone Area Water Board
 DRAWN: TED ALVARADO 27/09/23
 CHECKED: MICHAEL HARRIS 27/09/23
 DESIGNED: PETER SEMMANN 27/09/23
 PROJECT No: 1151-DL07-W3P-PIE-DRG-67007
 SHEET No: A3
 SCALE: XXX-X-XXXX
 REV: 1

THE DRAWING IS THE PROPERTY OF GLADSTONE AREA WATER BOARD. IT IS TO BE USED ONLY FOR THE PROJECT AND NOT TO BE REPRODUCED OR USED WITHOUT THE WRITTEN PERMISSION OF GLADSTONE AREA WATER BOARD. SIGNATURE AND SEAL OF REGISTERED ENGINEER ACCEPTANCE

DO NOT SCALE

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

W3 Plus Consulting
 McCONNELL DOWELL
 BMD

REV	DATE	REVISION DESCRIPTION	DRN (CHKD)	EXT.	DATE	GAWR	NO.	NUMBER	REFERENCE DRAWINGS
1	20/02/24	UPDATED ALIGNMENT	TA	PH	PS				
0	27/09/23	ISSUED FOR CONSTRUCTION	TA	PH	PS				



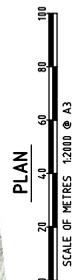
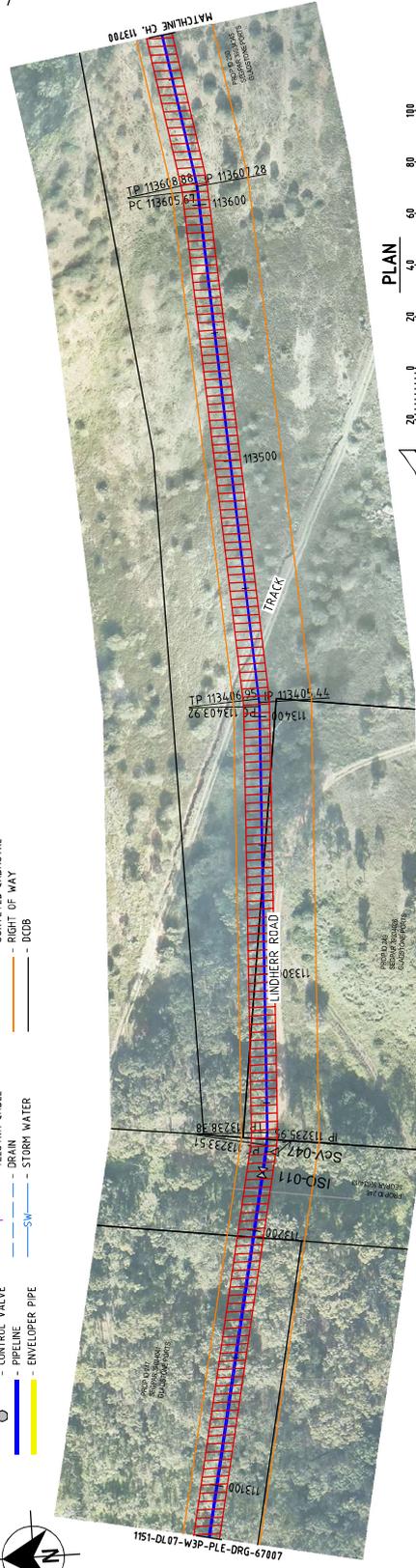


- LEGEND: PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE

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

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

- CONSTRUCTION ZONES
- LICENSED AREAS



FOR TRENCH STOP DETAILS
REFER PROJECT NOTES

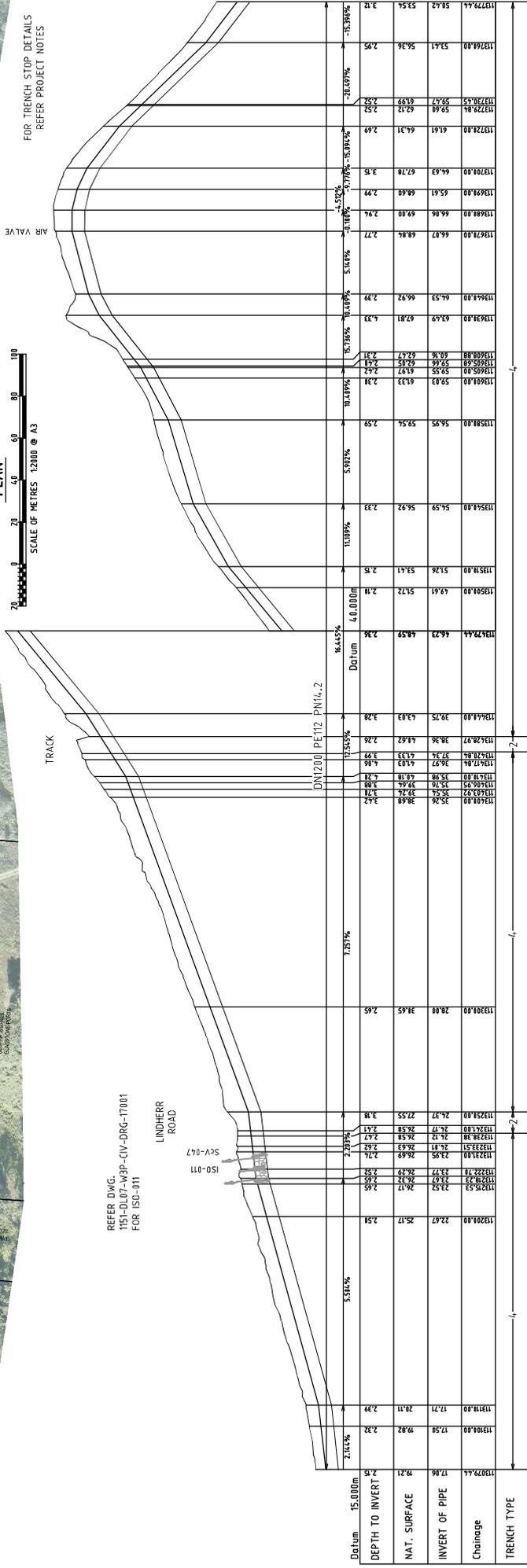
TRACK

REFER DWG.
1151-DL07-W3P-41V-DRG-17001
FOR ISO-011

LINDHERR ROAD

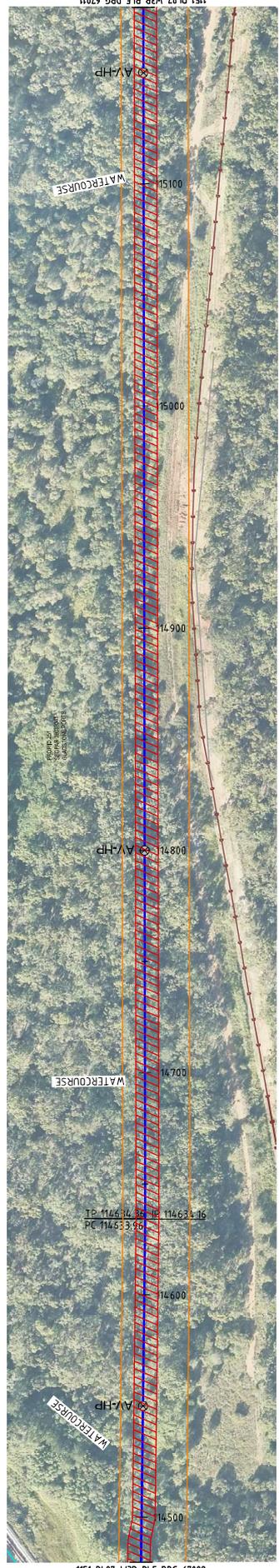
ISO-011

SCV-047





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

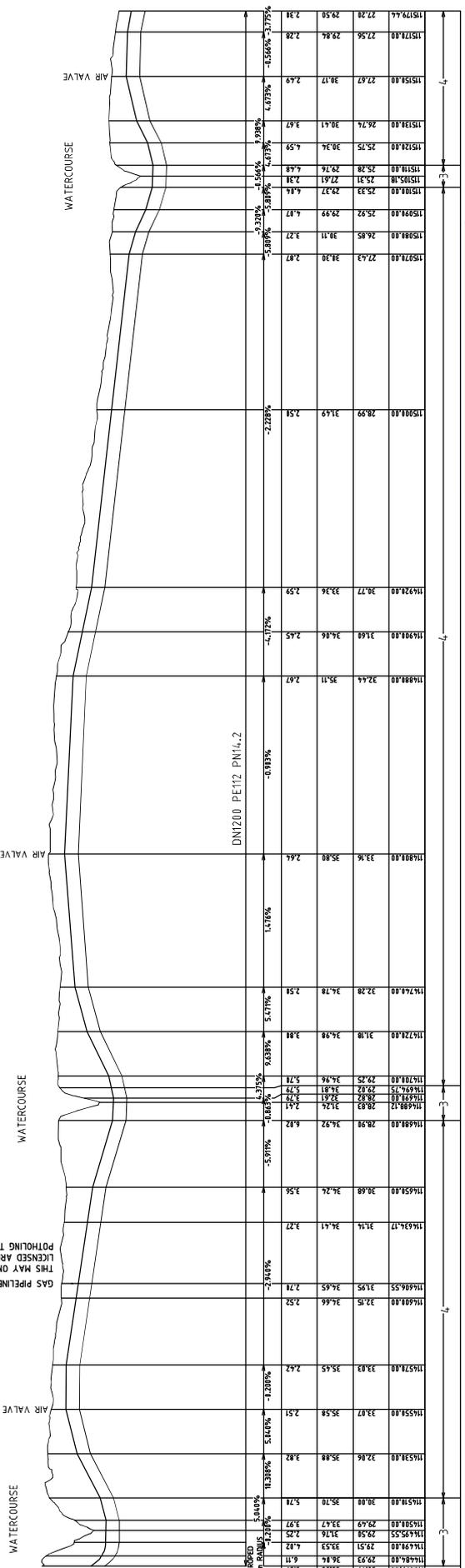


PLAN
SCALE OF METRES 1:2000 @ A3

FOR TRENCH STOP DETAILS
REFER PROJECT NOTES

GAS PIPELINE INVESTRAS
THIS MAY ONLY BE A
LICENSED AREA, NEEDS
POTHOLING TO CONFIRM

GAS SANTOS PIPELINE IN
VICINITY RUNNING PARALLEL



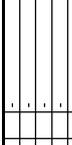
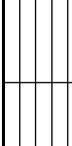
LONGITUDINAL SECTION
VERTICAL SCALE OF METRES 1:400 @ A3
HORIZONTAL SCALE OF METRES 1:2000 @ A3

PLANS AND DOCUMENTS referred to in the SDA APPROVAL
SDA approval: APC2024/007

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMMANN
NO: 12574
DIVISION: CIVIL
SIGNATURE: *Peter Semmann* DATE: 27.10.23

ISSUED FOR CONSTRUCTION

Gladstone Area Water Board
DRAWN: TED ALVARADO 27/09/23
DESIGNED: MICHAEL HARRIS 27/09/23
CHECKED: PETER SEMMANN 27/09/23
APPROVED: PETER SEMMANN 27/09/23



REV	DATE	REVISION DESCRIPTION	BY	CHKD	APP	NO
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	PH	PS	1
1	30/08/23	STAKE PROTECTION SLABS ADDED	TA	PH	PS	2
2	31/08/23	LICENSED AREA ADDED	TA	PH	PS	3
3	27/09/23	LEGEND CHANGED	TA	PH	PS	4

1151-DL-07-W3P-PLC-DRG-67009
1151-DL-07-W3P-PLC-DRG-67011

REV	DATE	REVISION DESCRIPTION	BY	CHKD	APP	NO
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	PH	PS	1
1	30/08/23	STAKE PROTECTION SLABS ADDED	TA	PH	PS	2
2	31/08/23	LICENSED AREA ADDED	TA	PH	PS	3
3	27/09/23	LEGEND CHANGED	TA	PH	PS	4

PROJECT No. 1151-DL-07-W3P-PLC-DRG-67010
DRAWING No. A3
SCALE XXX-X-XXXX
AS NOTED
REV 3



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMMANN
NO: 12574
DIVISION: CIVIL
SIGNATURE: *Peter Semmann* DATE: 27.10.23



REV	DATE	REVISION DESCRIPTION	BY	CHKD	APP	NO
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	PH	PS	1
1	30/08/23	STAKE PROTECTION SLABS ADDED	TA	PH	PS	2
2	31/08/23	LICENSED AREA ADDED	TA	PH	PS	3
3	27/09/23	LEGEND CHANGED	TA	PH	PS	4

1151-DL-07-W3P-PLC-DRG-67009
1151-DL-07-W3P-PLC-DRG-67011



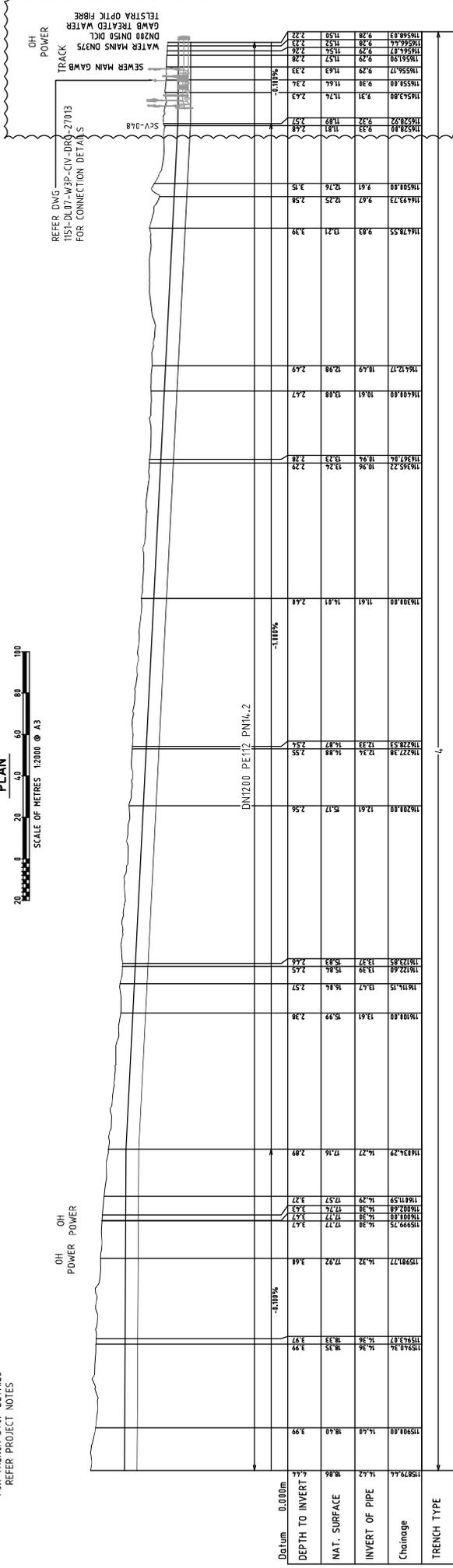
- LEGEND: PROPOSED:**
- AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE

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

- LEGEND:**
- CONSTRUCTION ZONES
 - LICENSED AREAS
 - WATER OTHER
 - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DOCB



FOR TRENCH STOP DETAILS REFER PROJECT NOTES



PLANS AND DOCUMENTS referred to in the SDA APPROVAL
SDA approval: APC2024/007



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMMANN
DIVISION: CIVIL
SIGNATURE: [Signature]
DATE: 07.12.23

REV	DATE	REVISION DESCRIPTION	DRN (CHK)	EXT.	DATE	SCALE	AS NOTED
0	27/09/23	ISSUED FOR CONSTRUCTION	TA	PH	PS	A3	XXX-X-XXXX
1	27/09/23	MMP TIE IN PRELIMINARY UPDATES	TA	PH	PS		
2	06/02/23	FENCE MOVED TO LA BOUNDARIES	TA	PH	PS		
3	07/02/23	GATES RELOCATED	TA	PH	PS		

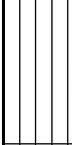
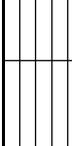
PROJECT #	1151-DL07-W3P-PIE-DRG-67012
GAMB #	A3
DATE	07.12.23

DRAWN BY	TED ALVARADO	27/09/23
CHECKED BY	MICHAEL HARRIS	27/09/23
APPROVED BY	PETER SEMMANN	27/09/23

PROJECT #	1151-DL07-W3P-PIE-DRG-67012
GAMB #	A3
DATE	07.12.23

PROJECT #	1151-DL07-W3P-PIE-DRG-67012
GAMB #	A3
DATE	07.12.23

Gladstone Area Water Board
FITZROY TO ELADSTONE PIPELINE PROJECT
DL07 PIPELINE CH 115079.441 - 115168.03

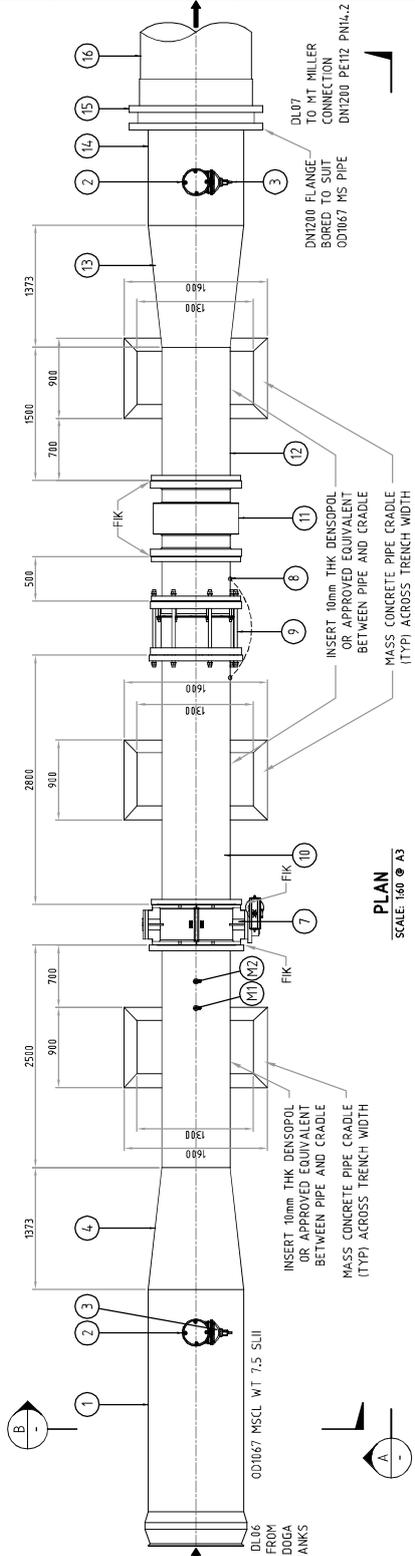


ISSUED FOR CONSTRUCTION



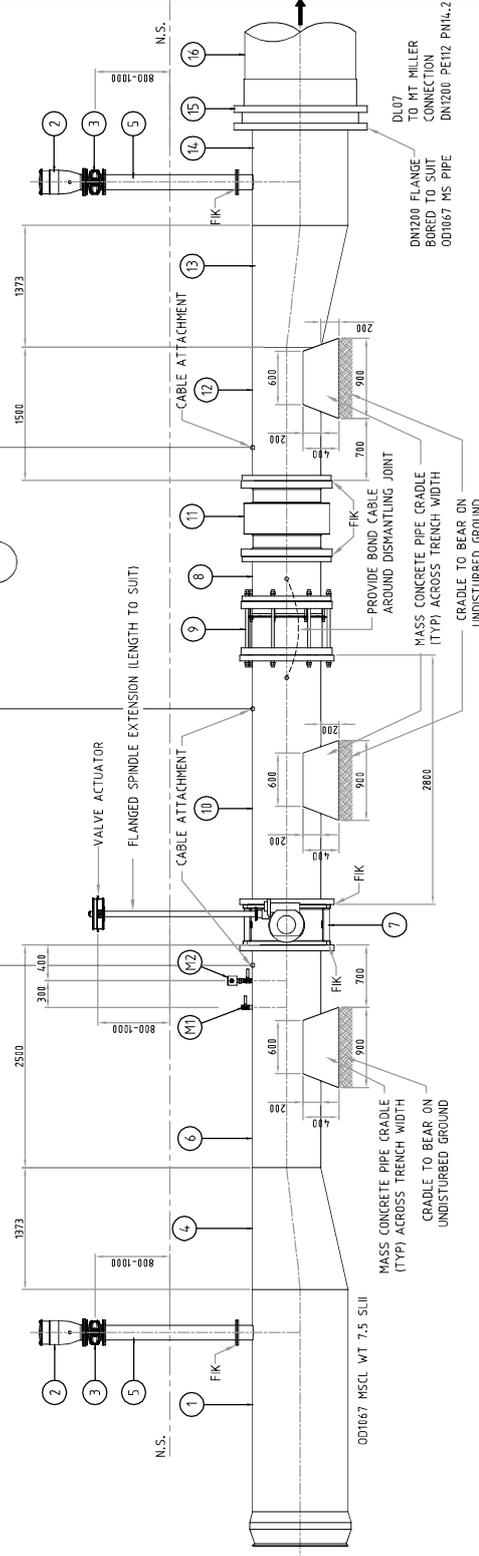
PIPEWORK SCHEDULE

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	OD1067-0D762 WELDED ECCENTRIC REDUCER	2	MSCL	
5	DN150 FLANGED PIPE (LENGTH TO SUIT)	2	PN16	MSCL
6	OD762 FLANGED-WELDED PIPE	1	PN16	MSCL
7	DN150 MODULATING BUTTERFLY VALVE W/ ROTARY ACTUATOR	1	PN16	DIEL
8	DN150 FLANGED PIPE (1000mm LONG)	1	PN16	MSCL
9	DN150 DISMANTLING JOINT (THRUST TYPE)	1	PN16	DIEL
10	DN150 FLANGED PIPE	1	PN16	MSCL
11	DN150 FLOW METER	1	PN16	DIEL
12	DN150 FLANGED-WELDED PIPE	1	PN16	MSCL
13	OD1067-0D762 WELDED ECCENTRIC REDUCER	1	MSCL	
14	OD1067/DN150 WELD-FL-TEE W/ DN1200 FLANGE	1	PN16	MSCL
15	DN1200 HDPE S'UB 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		



PLAN
SCALE: 1:60 @ A3

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



SECTION
SCALE: 1:60 @ A3

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

PLANS AND DOCUMENTS referred to in the SDA APPROVAL
SDA approval: APC2024/007



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMMANN
NO: 15514
DIVISION: CIVIL
SIGNATURE: [Signature]
DATE: 02.10.23

ISSUED FOR CONSTRUCTION

Gladstone Area Water Board
DRAWN: TED ALVARADO 26/09/23
DESIGNED: ANDREW SIN 26/09/23
CHECKED: PETER SEMMANN 26/09/23
DATE: 02.10.23

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

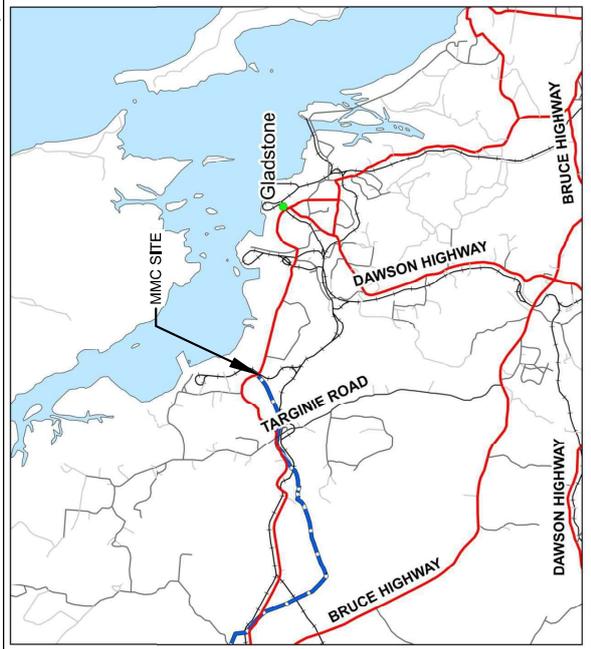
PROJECT No. 115-DL07-W-3P-CIV-DRG-27001
SCALE: A3
DRAWING No. XXX-X-XXXX
AS NOTED
REV: 0

BMD
McCONNELL DOWELL CREATIVE CONSTRUCTION
W3 Plus Consulting world wide water plus

REV	DATE	REVISION DESCRIPTION	DN	CHKD	EXT	DATE	APP	NO	NUMBER
0	02/10/23	ISSUED FOR CONSTRUCTION	TA	AS	PS				

NOTE:
REFER TO PROJECT NOTES FOR BIDDING DETAILS. DRG 115-DL07-W-3P-CIV-DRG-1010





LOCALITY PLAN
N.T.S.

COORDINATES OF SITE

GDA 2000 MGA, ZONE 56
EASTING = 312,430
NORTHING = 7,363,450

CO-ORDINATES ARE APPROXIMATE.
USE ONLY FOR SITE ACCESS.
ACTUAL LOCATION TO BE DETERMINED ON SITE.

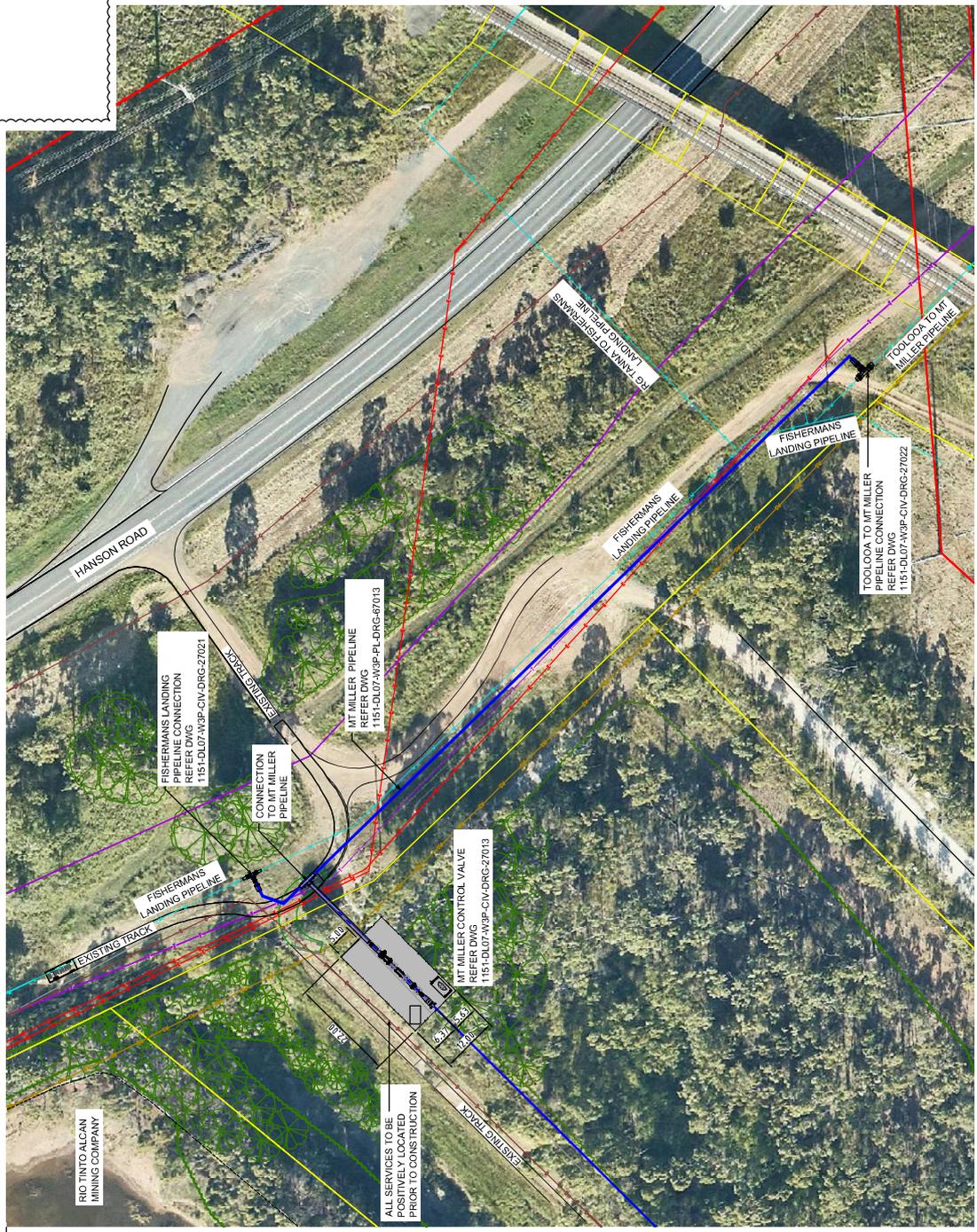
NOTES:

1. THESE DRAWINGS SHALL READ IN CONJUNCTION WITH TECHNICAL SPECIFICATION.
2. ALL LEVELS ARE IN METRES (m) AND TO AUSTRALIAN HEIGHT DATUM (AHD).

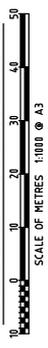
HOLD



PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL
SDA approval: APC2024/007



MMP TIE IN GENERAL ARRANGEMENT



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMMANN
NO: 161 079 000
DIVISION: CIVIL
DATE: 27.10.23
SIGNATURE: [Signature]

ISSUED FOR CONSTRUCTION

Gladstone Area Water Board



THE DRAWING IS THE PROPERTY OF GLADSTONE AREA WATER BOARD AND IS NOT TO BE REPRODUCED OR USED WITHOUT ITS WRITTEN PERMISSION. SIGNATURES ARE SUBJECT TO REGULATORY ACCEPTANCE.

DRAWN: TED ALVARADO 26/09/23
CHECKED: ANDREW SIN 26/09/23
BY: PETER SEMMANN 26/09/23

FITZROY TO GLADSTONE PIPELINE PROJECT
D107 CONNECTION DETAILS
MMP TIE IN GENERAL ARRANGEMENT

PROJECT No. 115-DL-07-W3P-CIV-DRG-27011
DRAWING No. A3
SCALE AS NOTED

DATE: 27.10.23

DO NOT SCALE

REV	DATE	REVISION DESCRIPTION	DRN (CHK)	EXT. DATE	EXT. NAME	REFERENCE DRAWINGS	NUMBER
1	27/10/23	MT MILLER CONNECTION UPDATED	TA	AS	PS		
0	02/10/23	ISSUED FOR CONSTRUCTION	TA	AS	PS		





SITE SETOUTS			
POINT	EASTING	NORTHING	REMARKS
1	27422.6790	728515.9586	CORNER OF FENCE
2	27425.1974	728515.4462	CORNER OF FENCE
3	27425.5886	728517.2725	CORNER OF FENCE
4	27420.7100	728524.6163	CORNER OF FENCE

LEGEND:

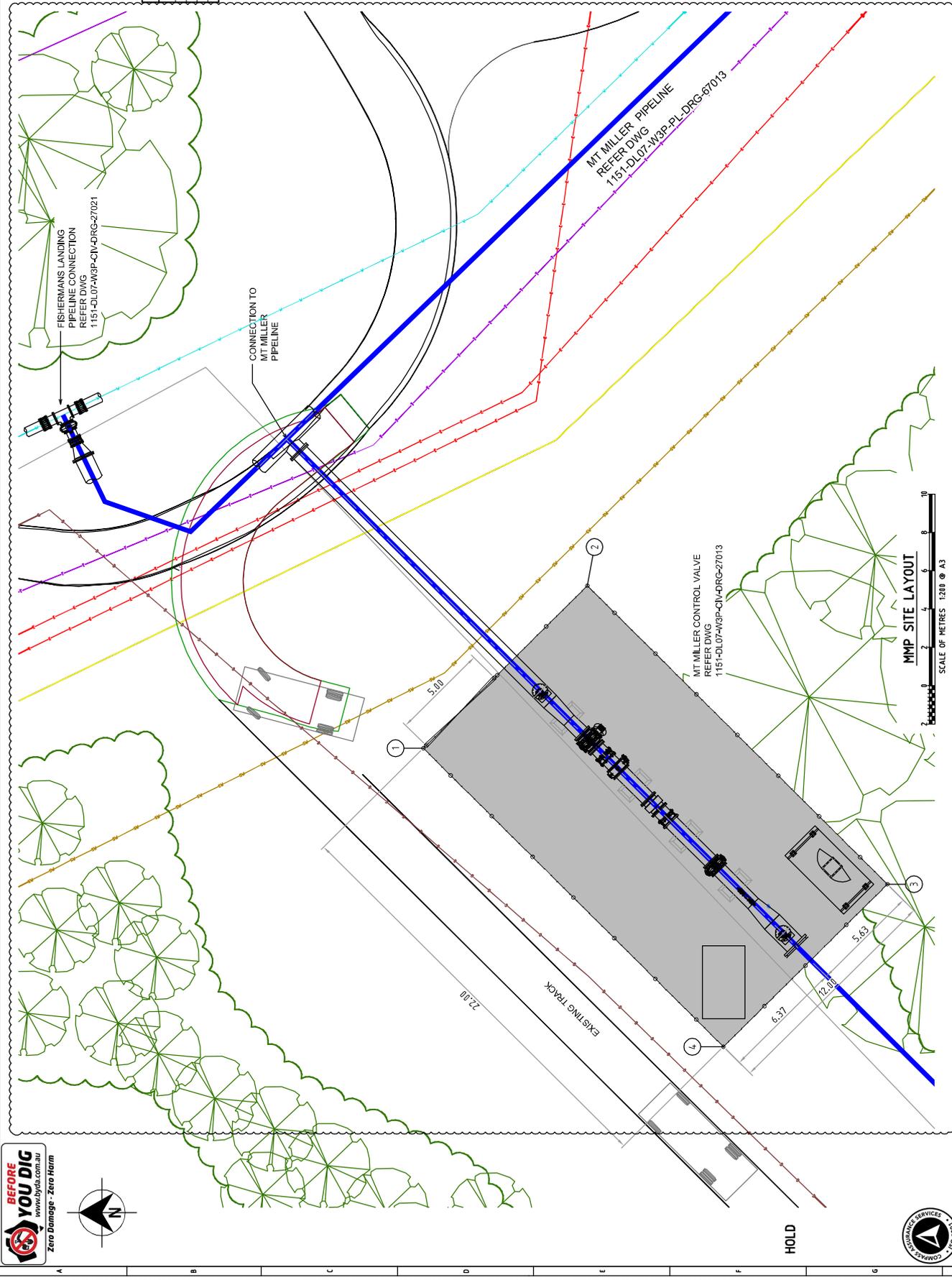
- EXISTING:**
- PROPOSED PIPELINE
 - FENCE
 - GAS
 - ELECT'L POWER (OH or UG)
 - TELSTRA CABLE
 - DRAIN
 - STORM WATER
 - WATER OTHER
 - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DCB

PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL

SDA approval: APC2024/007

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: PETER SEMMANN
 DIVISION: CIVIL
 SIGNATURE: *Peter Semmann* DATE: 27.10.23

ISSUED FOR CONSTRUCTION



Gladstone Area Water Board			
DRAWN:	TED ALVARADO	24/09/23	FIT ZERO TO GLADSTONE PIPELINE PROJECT
DESIGNED:	ANDREW SIN	24/09/23	D/LOT CONNECTION DETAILS
CHECKED:	PETER SEMMANN	24/09/23	MPP TIE IN SITE SET OUT
PROJECT No.	115-DL07-W3P-CIV-DRG-27012		
SCALE	A3 XXX-X-XXXX		AS NOTED

W3 Plus Consulting
 world wide water plus

McCONNELL DOWELL
 CREATIVE CONSTRUCTION

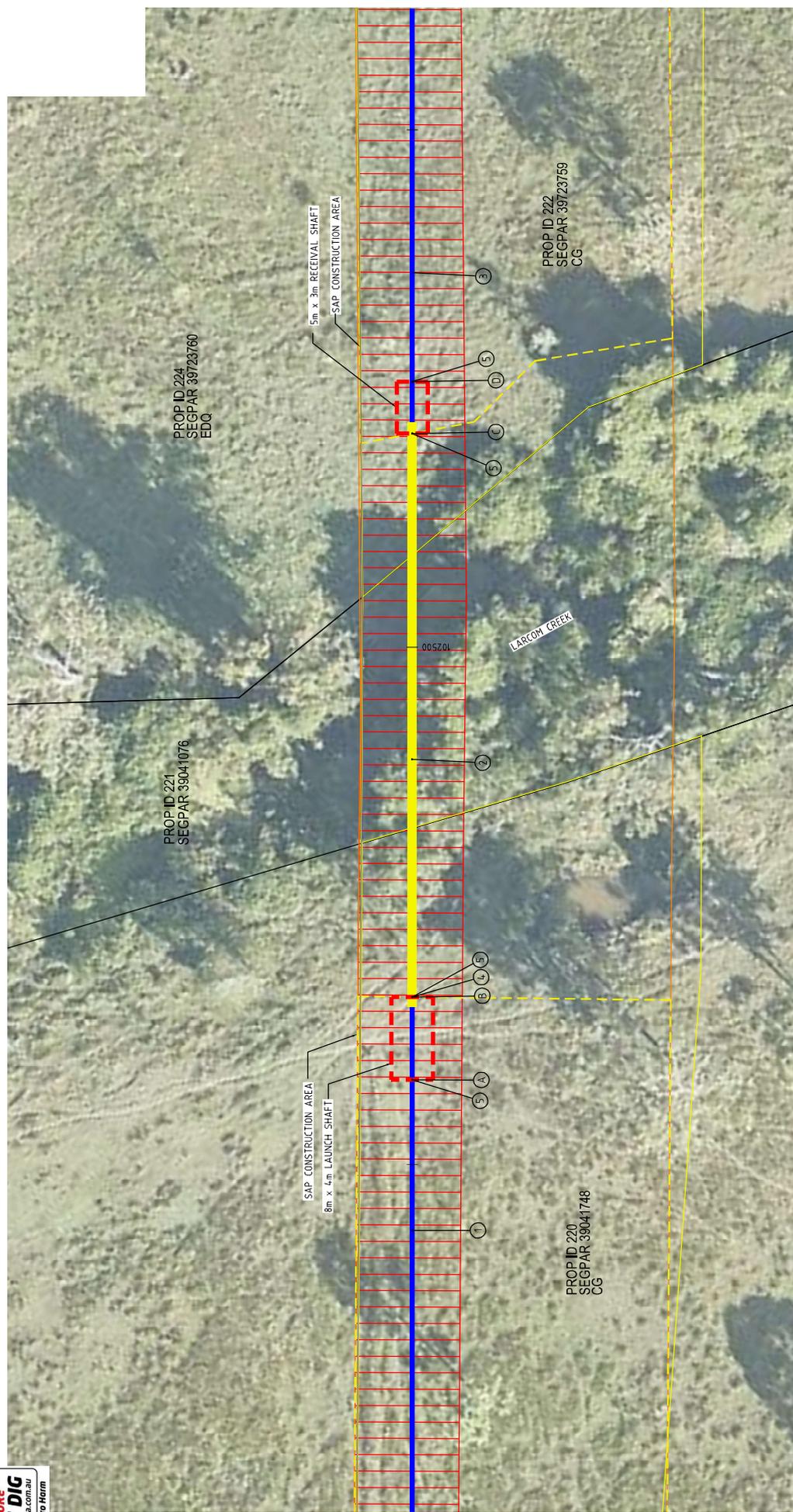
BMD

THE DRAWING IS THE PROPERTY OF GLADSTONE AREA WATER BOARD AND IS NOT TO BE REPRODUCED OR USED WITHOUT ITS WRITTEN PERMISSION. SIGNATURES MUST BE OBTAINED BY SEPARATE METHODS.

REV	DATE	REVISION DESCRIPTION	DRN (CHK)	EXT. (ACC)	GAWR (APP)	NUMBER
1	27/09/23	MT MILLER CONNECTION UPDATED	TA	AS	PS	
0	02/09/23	ISSUED FOR CONSTRUCTION	TA	AS	PS	



HOLD



NOTE: CRITICAL CROSSING DETAIL STILL UNDER DEVELOPMENT

ITEM	DESCRIPTION
1	OD1067 MSCL WT 7.5 SUI (MR. 7 No. LENGTHS BEFORE BEND)
2	ENVELOPER PIPE OD1065 RDP JACKING PIPE GROUNDED W/ STEEL PILES (LAND USE SETBACK)
3	STEEL PILES (LAND USE SETBACK)
4	PRODUCT PIPE OD1067 MSCL WT 7.5 SUI
5	4.5 DEGREE WELDED BEND 4 No.

POINT	EASTING	NORTHING	R.L.	DESCRIPTION
A	399798.0798	7340183.7276		REAR OF LAUNCH SHAFT
B	399794.7545	7340172.1494		FACE OF LAUNCH SHAFT
C	399833.4139	7339989.1156		REAR OF RECEIVAL SHAFT
D	399836.9624	7339985.5738		FACE OF RECEIVAL SHAFT

ITEM	DESCRIPTION
1	OD1067 MSCL WT 7.5 SUI (MR. 7 No. LENGTHS BEFORE BEND)
2	ENVELOPER PIPE OD1065 RDP JACKING PIPE GROUNDED W/ STEEL PILES (LAND USE SETBACK)
3	STEEL PILES (LAND USE SETBACK)
4	PRODUCT PIPE OD1067 MSCL WT 7.5 SUI
5	4.5 DEGREE WELDED BEND 4 No.

POINT	EASTING	NORTHING	R.L.	DESCRIPTION
A	399798.0798	7340183.7276		REAR OF LAUNCH SHAFT
B	399794.7545	7340172.1494		FACE OF LAUNCH SHAFT
C	399833.4139	7339989.1156		REAR OF RECEIVAL SHAFT
D	399836.9624	7339985.5738		FACE OF RECEIVAL SHAFT

PLANS AND DOCUMENTS referred to in the SDA APPROVAL

SDA approval: AP2022/006



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: _____
 DIVISION: _____
 SIGNATURE: _____
 DATE: ___/___/___

PRELIMINARY DRAWING
 NOT TO BE USED FOR CONSTRUCTION PURPOSES

REV	DATE	DESCRIPTION	BY	CHKD	APP	DATE	REV	DATE	DESCRIPTION	BY	CHKD	APP	DATE
B	08/06/23	ISS SUBMISSION FOR CLIENT REVIEW	TA	PH	PS								
A	26/05/23	ISS SUBMISSION /V REVIEW	TA	PH	PS								

PROJECT No.	GAWB #	SCALE	DATE
115-DL-05-W-3P-CIV-DRG-35/40	A3	XXX-X-XXXX	

Drawn By	Checked By	Approved By	Date
TED ALVARADO	MICHAEL HARRIS	PETER SEMMANN	04/06/23

Project Name	Location	Project No.
FITZROY TO GLADSTONE PIPELINE PROJECT	LARCOM CREEK CRITICAL CROSSING	115-DL-05-W-3P-CIV-DRG-35/40

Item	Description
1	PROPOSED PIPE
2	PROPOSED LAUNCH SHAFT
3	PROPOSED RECEIVAL SHAFT

Item	Description
1	PROPOSED PIPE
2	PROPOSED LAUNCH SHAFT
3	PROPOSED RECEIVAL SHAFT

Item	Description
1	PROPOSED PIPE
2	PROPOSED LAUNCH SHAFT
3	PROPOSED RECEIVAL SHAFT

Gladstone Area Water Board

115-DL-05-W-3P-CIV-DRG-35/40

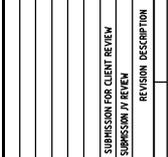
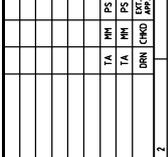
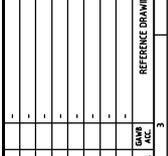
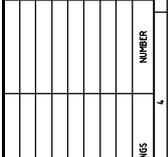
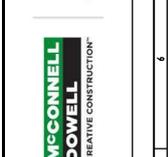
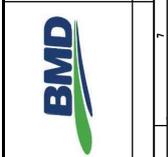
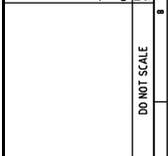
FITZROY TO GLADSTONE PIPELINE PROJECT
 LARCOM CREEK CRITICAL CROSSING
 GENERAL ARRANGEMENT

DRAWN BY: TED ALVARADO
 CHECKED BY: MICHAEL HARRIS
 APPROVED BY: PETER SEMMANN

DATE: 04/06/23

PROJECT No. 115-DL-05-W-3P-CIV-DRG-35/40
 GAWB # A3
 SCALE XXX-X-XXXX

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
 NAME: _____
 DIVISION: _____
 SIGNATURE: _____
 DATE: ___/___/___





PROP ID 239 & 242B
SEGPAR 30035026

PROP ID 240
SEGPAR 30035074
GLADSTONE PORTS

PROP ID 238
SEGPAR 30035054
GLADSTONE PORTS

BH409

BH410

PROP ID 241
SEGPAR 30035061
GLADSTONE PORTS

5m x 4m
LAUNCH SHAFT

5m x 3m
RECEIVAL SHAFT

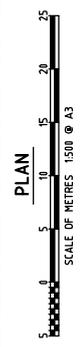
EDGE OF BITUMEN

GLADSTONE MT LARCOM ROAD

PROPERTY BOUNDARY

PROPERTY BOUNDARY

111700



POINT	EASTING	NORTHING	R.L.	DESCRIPTION
A	307944.7197	7342771.9493		REAR OF RECEIVAL SHAFT
B	307948.2919	734271.4417		FACE OF RECEIVAL SHAFT
C	308039.9416	734275.4482		FACE OF LAUNCH SHAFT
D	308046.1942	7342790.6444		REAR OF LAUNCH SHAFT

ITEM	DESCRIPTION
1	ENV200 PETIZ PHYLZ
2	ENVELOPER PIPE UNVED 00800 RCP CLASS 4 - SERIES J - GROUDED 1983PH LENGTH TO BE CONFIRMED BY TPOU TREMNESS CONTRACTOR

PLANS AND DOCUMENTS referred to in the SDA APPROVAL
SDA approval: APC2024/007



REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMMANN
DIVISION: CIVIL
SIGNATURE: *Peter Semmann* DATE: 26.10.23



REV	DATE	REVISION DESCRIPTION	DRN	CHKD	EXT	DATE	SCALE	AS NOTED
1	26/10/23	PITS MOVED BORE EXTENDED	TA	PH	PS			
0	07/08/23	ISSUED FOR CONSTRUCTION	TA	PH	PS			

PROJECT No.	GAWB #	SCALE	REV
115-DL-07-W-3P-CIV-DRG-37020	A3	XXX-X-XXXX	1

DRAWN	DATE	PROJECT	DESCRIPTION
TED ALVARADO	26/09/23	FITZROY TO GLADSTONE PIPELINE PROJECT	GLADSTONE MT LARCOM ROAD CRITICAL CROSSING
MICHAEL HARRIS	26/09/23		GENERAL ARRANGEMENT
PETER SEMMANN	26/09/23		GENERAL ARRANGEMENT

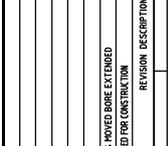
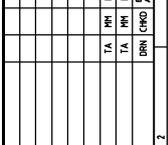
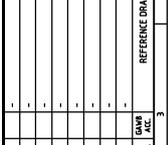
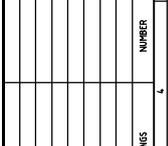
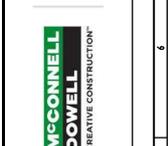
REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND	DATE
PETER SEMMANN	26.10.23

ISSUED FOR CONSTRUCTION

Gladstone Area Water Board
FITZROY TO GLADSTONE PIPELINE PROJECT
GLADSTONE MT LARCOM ROAD CRITICAL CROSSING
GENERAL ARRANGEMENT

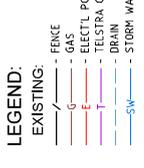


THE DRAWING IS THE PROPERTY OF GLADSTONE AREA WATER BOARD AND IS NOT TO BE REPRODUCED OR USED WITHOUT ITS WRITTEN PERMISSION. SIGNATURE MUST BE OBTAINED BY REGISTERED CONTRACTOR.

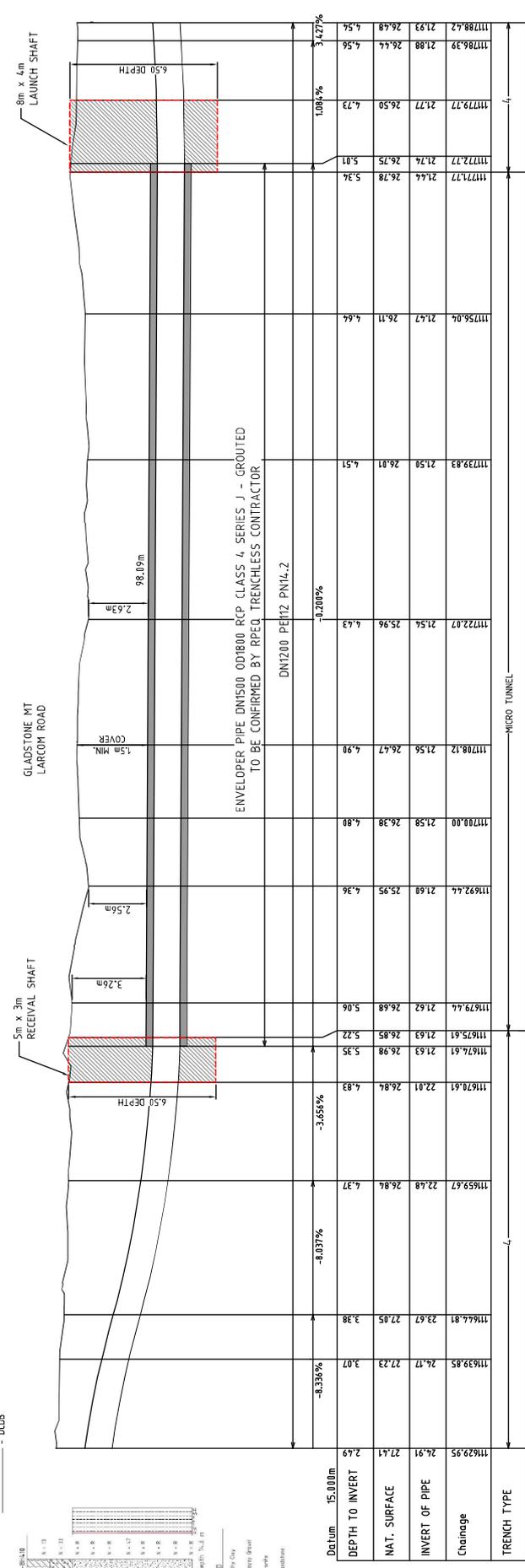




- LEGEND:**
- PROPOSED:
 - AIR VALVE
 - SCOUR VALVE
 - ISOLATION VALVE
 - CONTROL VALVE
 - PIPELINE
 - ENVELOPER PIPE
 - LEGEND:
 - EXISTING:
 - FENCE
 - GAS
 - ELECTR. POWER OH or UG
 - TELESTRA CABLE
 - DRAIN
 - STORM WATER
 - WATER OTHER
 - SEWER PIPE
 - 100 ARI FLOOD LEVEL
 - SURVEYED CADASTRE
 - RIGHT OF WAY
 - DOB
 - CONSTRUCTION ZONES
 - LICENSED AREAS
 - BOREHOLE / TEST PIT



- LEGEND:**
- CONSTRUCTION ZONES
 - LICENSED AREAS
 - BOREHOLE / TEST PIT



PLANS AND DOCUMENTS referred to in the SDA APPROVAL
SDA approval: APC2024/007

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
PETER SEMMANN
DIVISION: CIVIL
DATE: 13/10/23

ISSUED FOR CONSTRUCTION

REV	DATE	DESCRIPTION	ISSUED FOR CONSTRUCTION	SCALE	AS NOTED
0	13/10/23	ISSUED FOR CONSTRUCTION	A3	XXX-X-XXXX	2
1	13/10/23	NOTES UPDATED			
2	26/09/23	PITS MOVED BORE EXTENDED			
3	07/08/23	ISSUED FOR CONSTRUCTION			

NO.	DATE	BY	CHKD	APP.	NO.	DATE	BY	CHKD	APP.
1	13/10/23	TA	PM	PS	1	13/10/23	TA	PM	PS
2	26/09/23	TA	PM	PS	2	26/09/23	TA	PM	PS
3	07/08/23	TA	PM	PS	3	07/08/23	TA	PM	PS

NO.	DATE	BY	CHKD	APP.	NO.	DATE	BY	CHKD	APP.
1	13/10/23	TA	PM	PS	1	13/10/23	TA	PM	PS
2	26/09/23	TA	PM	PS	2	26/09/23	TA	PM	PS
3	07/08/23	TA	PM	PS	3	07/08/23	TA	PM	PS

NO.	DATE	BY	CHKD	APP.	NO.	DATE	BY	CHKD	APP.
1	13/10/23	TA	PM	PS	1	13/10/23	TA	PM	PS
2	26/09/23	TA	PM	PS	2	26/09/23	TA	PM	PS
3	07/08/23	TA	PM	PS	3	07/08/23	TA	PM	PS

NO.	DATE	BY	CHKD	APP.	NO.	DATE	BY	CHKD	APP.
1	13/10/23	TA	PM	PS	1	13/10/23	TA	PM	PS
2	26/09/23	TA	PM	PS	2	26/09/23	TA	PM	PS
3	07/08/23	TA	PM	PS	3	07/08/23	TA	PM	PS

NO.	DATE	BY	CHKD	APP.	NO.	DATE	BY	CHKD	APP.
1	13/10/23	TA	PM	PS	1	13/10/23	TA	PM	PS
2	26/09/23	TA	PM	PS	2	26/09/23	TA	PM	PS
3	07/08/23	TA	PM	PS	3	07/08/23	TA	PM	PS

NO.	DATE	BY	CHKD	APP.	NO.	DATE	BY	CHKD	APP.
1	13/10/23	TA	PM	PS	1	13/10/23	TA	PM	PS
2	26/09/23	TA	PM	PS	2	26/09/23	TA	PM	PS
3	07/08/23	TA	PM	PS	3	07/08/23	TA	PM	PS

Gladstone Area Water Board
FITZROY TO GLADSTONE PIPELINE PROJECT
GLADSTONE MT LARCOM ROAD CRITICAL CROSSING
DETAILS

DRAWN: TED ALVARADO 26/09/23
CHECKED: MICHAEL HARRIS 26/09/23
DESIGNED: PETER SEMMANN 26/09/23

PROJECT No. 115-DL-07-W-3P-CIV-DRG-37021
DRAWING No. A3
SCALE XXX-X-XXXX
REV 2

McConnell Dowell
CREATIVE CONSTRUCTION

W3 Plus Consulting
world wide water plus

BMD

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
PETER SEMMANN
DIVISION: CIVIL
DATE: 13/10/23

ISSUED FOR CONSTRUCTION

PLANS AND DOCUMENTS referred to in the SDA APPROVAL
SDA approval: APC2024/007

Gladstone Area Water Board
FITZROY TO GLADSTONE PIPELINE PROJECT
GLADSTONE MT LARCOM ROAD CRITICAL CROSSING
DETAILS

DRAWN: TED ALVARADO 26/09/23
CHECKED: MICHAEL HARRIS 26/09/23
DESIGNED: PETER SEMMANN 26/09/23

PROJECT No. 115-DL-07-W-3P-CIV-DRG-37021
DRAWING No. A3
SCALE XXX-X-XXXX
REV 2



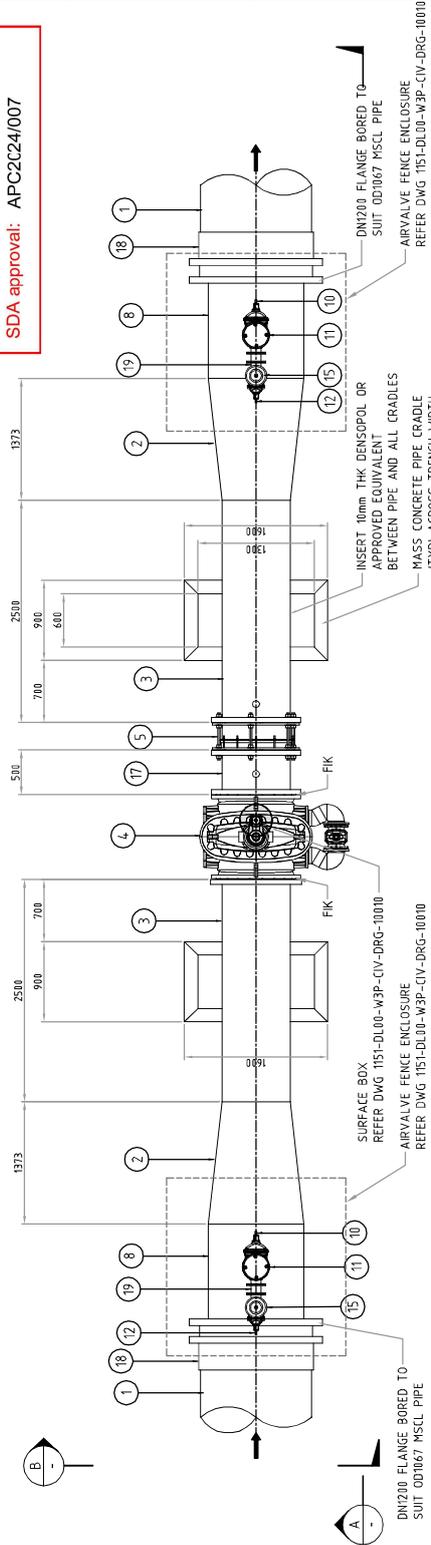
PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL
SDA approval: APC2024/007



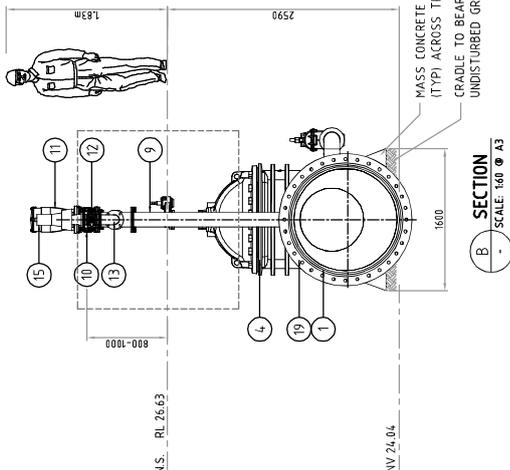
ITEM	DESCRIPTION	QTY	PN RATING	MATERIAL
1	DN1200 HDPE PIPE	2	PN16, 2	HDPE
2	OD1067-DN150 WELDED ECCENTRIC REDUCER	2	PN16	MSCL
3	DN150/DN150 WELD-FL-TEE	2	PN16	MSCL
4	DN150 FLANGED GATE VALVE W/ INTEGRAL BYPASS & GEARBOX	1	PN16	DIEL
5	DN150 DISMANTLING JOINT (THRUST TYPE)	1	PN16	DIEL
6	NOT IN USE	-	-	-
7	NOT IN USE	-	-	-
8	OD1067/DN150 WELD-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 3/8 REP AIR VALVE	2	PN16	DIEL
12	DN150 FLANGED GATE VALVE	2	PN16	DIEL
13	DN150 FLANGED 90° BEND	2	PN16	DIEL
14	NOT IN USE	-	-	-
15	DN100 CSA MOD W/CA RELIEF VALVE	2	PN16	DIEL
16	DN150/DN100 FLANGED TEE	2	PN16	DIEL
17	DN150 FLANGED PIPE (500mm LONG)	1	PN16	MSCL
18	DN1200 STUB FLANGE W/ MS BACKING RING	2	PN16	HOPE/MS
19	DN180 FLANGED PIPE	2	PN16	DIEL

PIPEWORK SCHEDULE

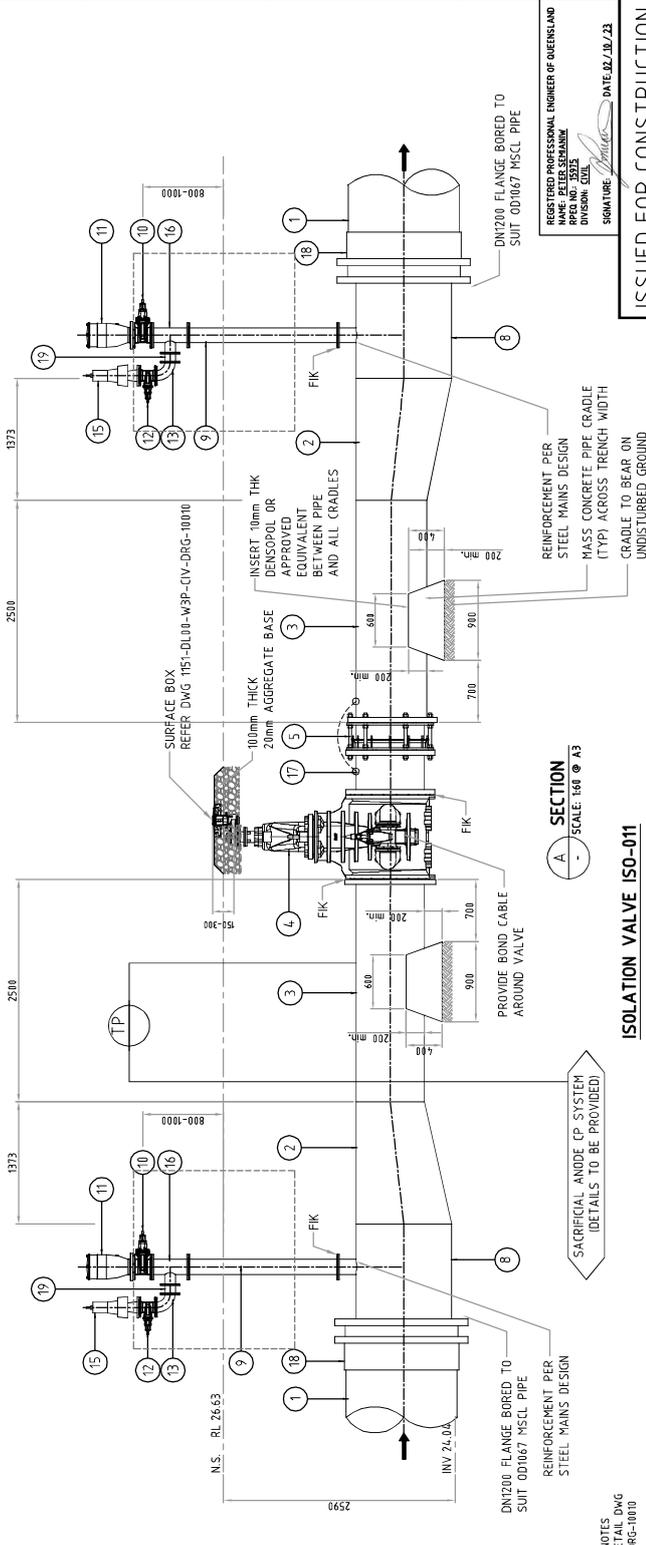
FIK = FLANGE INSULATION KIT
(KLINGER C44-30 FIK OR APPROVED EQUIVALENT)



PLAN
SCALE: 1:60 @ A3



SECTION A-A
SCALE: 1:60 @ A3



SECTION B-B
SCALE: 1:60 @ A3

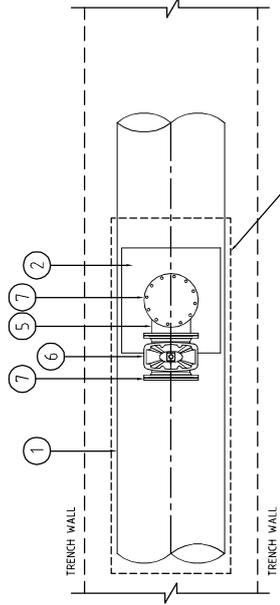
NOTE:
REFER TO PROJECT NOTES
REFER ENCLOSURE DETAIL DWG
1151-DL00-W3P-CIV-DRG-10010

ISOLATION VALVE ISO-011

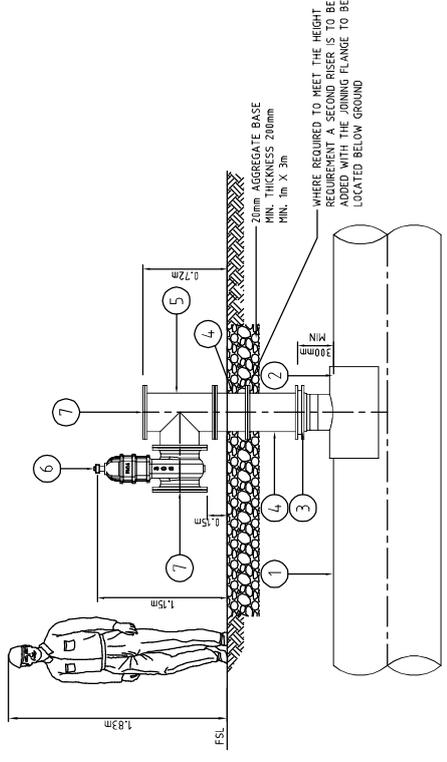
REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
NAME: PETER SEMMANN
DIVISION: CIVIL
DATE: 02.10.23

ISSUED FOR CONSTRUCTION

		Gladstone Area Water Board FITZROY TO ELANDSTONE PIPELINE PROJECT DUCT STANDARD DETAILS ISOLATION VALVE ASSEMBLY 1151-DL00-W3P-CIV-DRG-17001	
DRAWN: TED ALVARADO CHECKED: ANDREW SHIN DESIGNED: PETER SEMMANN	DATE: 24/09/23 DATE: 24/09/23 DATE: 24/09/23	PROJECT No. A3 DRAWING No. XXX-X-XXXX SCALE AS NOTED	REV 0
THE DRAWING IS THE PROPERTY OF GLADSTONE AREA WATER BOARD AND IS NOT TO BE REPRODUCED OR USED WITHOUT THE WRITTEN PERMISSION OF GLADSTONE AREA WATER BOARD. SIGNATURES ARE SUBJECT TO VERIFICATION.		DO NOT SCALE	
REV	DATE	REVISION DESCRIPTION	NUMBER
0	02/01/23	ISSUED FOR CONSTRUCTION	1
			2
			3
			4
			5
			6
			7
			8
			9
			10
			11
			12
			13
			14
			15
			16
			17
			18
			19



SCOUR INSTALLATION PLAN
N.T.S.



SCOUR INSTALLATION -- DN1200 HDPE
N.T.S.

SCOUR PIPEWORK SCHEDULE

ITEM	MATERIAL	DESCRIPTION	PN RATING	DIAMETER
1	HDPE	DN1200 PIPE	PN16.2	DN1200
2	HDPE	00315 PN16 FELLOW EF SADDLE TO SUIT 007200 HDPE PE12.5DRB3.6	PN16	DN1200/DN315
3	-	DN315 S TUB 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-DL-01-W3P-CIV-DRG-11018

PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL
SDA approval: APC2024/007

REGISTERED PROFESSIONAL ENGINEER OF QUEENSLAND
PETER SEHMANN
DIVISION: CIVIL
DATE: 22.10.23

ISSUED FOR CONSTRUCTION

Gladstone Area Water Board
FITZROY TO GLADSTONE PIPELINE PROJECT
DL07 STAND AND DETAILS
SCOUR ASSEMBLY

1151-DL-01-W3P-CIV-DRG-11003



REV	DATE	ISSUED FOR CONSTRUCTION	DESCRIPTION	BY	CHECKED	DATE	SCALE	AS NOTED	REV
0	12/01/23	ISSUED FOR CONSTRUCTION		TA	AS	PS	A3	XXXX-X-XXXX	0



Gladstone Area Water Board

Fitzroy to Gladstone Pipeline Construction Environmental Management Plan 1151-DL00-GWB-XEV-MAP-00001 *Controlled Document*

PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL



SDA approval: APC2024/007

AUTHORISED BY:	FGP Chief Operating Officer
DATE OF ISSUE:	July 2023
MAINTAINED BY:	FGP Approvals Manager
CURRENT VERSION:	Revision 1, Issue 2
REVIEW DATE:	12 months from 'Date of Issue'
DOCUMENT TYPE	Management Plan

Gladstone Area Water Board
Phone: (07) 4976 3000
Fax: (07) 4972 5632

136 Goondoon Street
Gladstone Q 4680
www.gawb.qld.gov.au

Gladstone Area Water Board

This document is and shall remain the property of Gladstone Area Water Board. The document may only be used for the purpose for which it was commissioned and in accordance with the Conditions of Appointment. Unauthorised use of this document in any form whatsoever is prohibited.



Translocation and Propagation Plan for Listed Threatened Plants—Gladstone State Development Area

Fitzroy to Gladstone Pipeline Project

Gladstone Area Water Board (GAWB)

July 2023

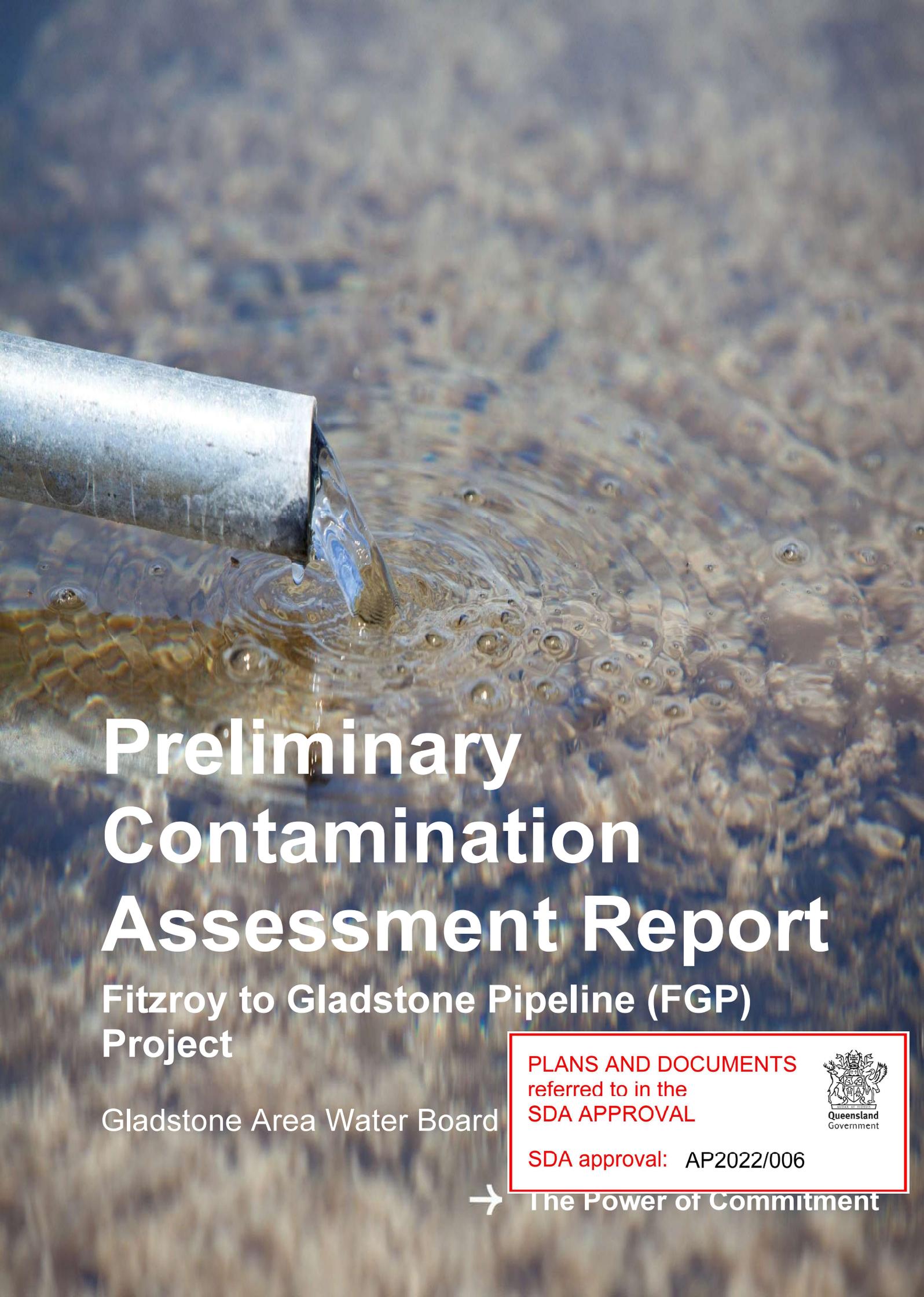
PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL



SDA approval: AP2022/006

BASE/





Preliminary Contamination Assessment Report

Fitzroy to Gladstone Pipeline (FGP)
Project

Gladstone Area Water Board

PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL



SDA approval: AP2022/006

→ The Power of Commitment

Special Area Plan – Larcom Creek Micro- tunnel Crossing - Revised

Fitzroy to Gladstone Pipeline Project

EPBC Approval 2007/3501

Gladstone Area Water Board (GAWB)

June 2024

PLANS AND DOCUMENTS
referred to in the
SDA APPROVAL



SDA approval: APC2024/007



BASE/

Document Control

Title	Fitzroy to Gladstone Pipeline – Special Area Plan for Larcom Creek Protocol - Revised
Job Number	J0208
Client	Gladstone Area Water Board (GAWB) Pty Ltd

Document Issue

Issue	Date	Prepared By	Reviewed/Approved By
Rev A DRAFT – For client review	21/11/2022	Brandon Hourigan, Chris Morris, Michael Dixon	S. Wakefield (GAWB)
Rev 0 – Final	22/11/2022	Dr Craig Streatfeild	Chris Morris
Rev 1 – Update following contractor information	19/05/2023	Dr Craig Streatfeild	Simon Wakefield (GAWB)
Rev 2 – Update following MBJV review	02/06/2023	Dr Craig Streatfeild	Simon Wakefield (GAWB)
Rev 3 – Updated for client and contractor review	30/05/2024	Dr Craig Streatfeild	Luke Stalley (GAWB) and Cathee Miller (MBJV)
Rev 4 - Update following review	07/06/2024	Dr Craig Streatfeild	Luke Stalley (GAWB)
Rev 5 – Final revised version to DCCEEW	07/06/2024	Dr Craig Streatfeild	Luke Stalley (GAWB)

<ul style="list-style-type: none"> surrounding area, as far as reasonably practicable. Logs and fallen vegetation will be used as a habitat feature post-construction. Trees adjacent to construction areas will be lopped, with complete-to-ground clearing being avoided where reasonably practicable. Fauna exclusion fences will be established to prevent relocated fauna inadvertently re-entering the construction areas, as far as reasonably practicable. If required, directional lighting and shields will be installed to minimise light spill outside of the immediate work areas having consideration for health and safety requirements. 		
Biosecurity		
Control Activities	Responsibility	
<ul style="list-style-type: none"> Construction activities will be undertaken in accordance with the CEMP Biosecurity Control Plans that includes biosecurity management measures. Prior to commencement of construction, pre-clearance surveys will be undertaken to assess the presence of weeds and fauna pest species. These will be identified in the CEMP Flora and Fauna Control Plans and the CEMP Biosecurity Control Plans. All food wastes or wastes that could attract animals, will be kept in designated containers/bins that do not allow the access of animals. All personnel will be trained with respect to weeds (e.g. colour photos, precautions, procedures, fact sheets). Biosecurity training will be included as part of the environmental induction to be completed by all personnel prior to commencement of work on the site. Access roads will be identified in the CEMP and adhered to during construction to prevent transport of weeds from or to other areas. Vehicles and machinery will be subject to wash-down before entering sites where a request for wash-down by the landholder is identified in CEMP Biosecurity Control Plans and associated documentation. Proof of washdown (e.g. washdown certificates) will be kept in the vehicle once it has been washed down and certified. 	MBIV	
Water Quality		
Control Activities	Responsibility	
<ul style="list-style-type: none"> The location of the micro-tunnel entry/exit points will be away from Larcom Creek, outside riparian vegetation and within the designated construction areas shown on Figure 1. Construction activities will be undertaken in accordance with the CEMP Water Resources and Water Quality Control Plan. Water quality will be managed and monitored in accordance with the CEMP 	MBIV	

<ul style="list-style-type: none"> Water Resources and Water Quality Control Plan and ESCPs including water quality requirements outlined in the IECA Guidelines (2008). Stormwater will be diverted around the construction areas and site in accordance with the CEMP Water Resources and Water Quality Control Plan. Storage of fuels and chemicals will occur within the construction area and implement measures for managing fuel and chemical handling, storage, distribution and spill response during construction. Daily visual inspections of Larcom Creek downstream of the works area for obvious signs of fuel and/or oil slicks. If identified, the environment manager will be notified and appropriate actions implemented as per the CEMP Water Resources and Water Quality Control Plan. Water quality monitoring, if required, will be conducted in accordance with approval conditions, and the CEMP Water Resources and Water Quality Control Plan (in the event of discharge of tunnel boring slurry/water). Where the top of the bank occurs within the construction areas and has been excavated, backfilling and compacting and grading to natural contours will occur to avoid erosion. Any water bodies or water bores used for extraction of construction water will be monitored for water levels and water quality extraction will cease if unacceptable impacts are identified. The OSW/2020/5467 Exemption requirements for constructing authorities for the take of water without a water entitlement (DRDW/2021) will be met. 		
Air Environment		
Control Activities	Responsibility	
<ul style="list-style-type: none"> Air Quality will be managed in accordance with the CEMP Air Environment Control Plan. Nearby landowners will be informed of potential temporary dust generation prior to the commencement of activities likely to generate dust. Dust and particulate matter emissions and monitoring will be in accordance with approval condition requirements. Construction vehicles will be confined to designated access tracks in the construction areas, as far as reasonably practicable. Dust suppression will be undertaken as needed along access roads, tracks and exposed soils to minimise dust. Where required and practicable, rumble strips or similar method will be used at the entrance/exit of construction areas to reduce the amount of mud or soil that is transported onto hard-surfaced roads. This will be shown on the ESCP. Exposed ground surfaces will be mulched or revegetated as soon as reasonably practicable following construction activity 	MBIV	

<ul style="list-style-type: none"> and as per the ESCP requirements and the CEMP Rehabilitation and Revegetation Control Plan. 		
Waste Management		
Control Activities	Responsibility	
<ul style="list-style-type: none"> Waste will be managed in accordance with the CEMP Waste Management Control Plan. Wastewater will be managed in accordance with the Water Resources and Water Quality Control Plan and includes the management of wastewater and slurry from the trenchless construction methods. All waste receptacles will be coloured for waste streams and covered to prevent vermin being attracted, water infiltration and wind from causing litter. Sorting and storage recyclable wastes (such as oils, timber, steel and plastic) will occur, and arrangement for the transfer of the recyclables to a licenced waste management facility. Regulated wastes will be transported by a licenced contractor to a licenced waste management facility able to accept the waste. Sewage disposal will be managed through the use of mobile chemical treatment systems, approved septic systems or via connection with the municipal waste sewage infrastructure, depending on location of the site. All 'trackable wastes' under the <i>Environmental Protection Regulation 2019</i> (Ed) leaving the site will be recorded. Hazardous and regulated wastes will be controlled as per any local government or legislative requirements, stored in bunded containers / areas in accordance with an appropriately licenced contractor. Depending on the quality of the material excavated, it may be practical to utilise excess material within the ROW. Excess spoil will be disposed of at the nearest approved locations along ROW, generally by agreement with landowners or local council All wastes will be removed and disposed of at a licenced waste management facility regularly during construction and when construction has been completed. 	MBIV	
Hydrotesting and Commissioning		
Control Activities	Responsibility	
<ul style="list-style-type: none"> Hydrotesting will be undertaken in accordance with CEMP Hydrotest and Commissioning Control Plan for discharge of water from pipelines in relation to hydrotesting. Any pipeline leaks identified during the commissioning process will be cleaned up as soon as practical. Water disposed during commissioning to land or waterways will comply with 	MBIV	

<ul style="list-style-type: none"> regulatory requirements and the CEMP Hydrotest and Commissioning Control Plan which will have relevant controls in place to reduce impacts, including erosion and sediment controls. 		
Noise and Vibration Management		
Control Activities	Responsibility	
<ul style="list-style-type: none"> Noise and vibration will be managed in accordance with the CEMP Noise and Vibration Control Plan. All equipment and plant will be regularly maintained to manufacturers' specifications. Horns and reversing alarms will be at the minimum volume level as far as practicable without compromising safety requirements. A 24 hour contact number for the Project will be implemented for the construction phase so that residents always have an immediate point of contact when they have questions or concerns. All complaints received will be handled in accordance with the complaints / incidents procedure addressed in the CEMP If required, noise and vibration monitoring will be undertaken in accordance with approval conditions. 	MBIV	
Transport and Access		
Control Activities	Responsibility	
<ul style="list-style-type: none"> Traffic Management Plans (TMPs) will be developed prior to construction activities and will address site access, signage and traffic control during construction and any temporary traffic control measures. Access to and from the construction areas will be via designated routes prescribed in the TMP and displayed in the CEMP. Roads, particularly unsealed roads and access tracks used during construction will be maintained by MBIV. 	MBIV	
Cultural Heritage		
Control Activities	Responsibility	
<ul style="list-style-type: none"> Construction activities will be undertaken in accordance with the approved Cultural Heritage Management Plan (CHMP) and the requirements of the CEMP Cultural Heritage Management Control Plan. A Cultural Heritage survey of the construction areas will be undertaken in accordance with the requirements of the approved CHMP and the status of the survey shown on the SAP figure using a traffic light approach (e.g. red = not surveyed, amber = surveyed but not yet cleared and green = surveyed and cleared). The environmental induction will include a basic level of training for all personnel with regard to their obligations under the CHMP and the measures to be taken in the event of a historic or Aboriginal Cultural Heritage find. 	MBIV	

Dangerous and Hazardous Goods	
Control Activities	Responsibility
<ul style="list-style-type: none"> Dangerous and hazardous material will be managed in accordance with the CEMP Handling and Storage of Dangerous and Hazardous Goods Control Plan. Hazardous wastes will be controlled as per local government or legislative requirements, emergency use of a spill kit, bundled and/or contained to avoid release and transported and disposed of by an appropriately licensed contractor. Any spills will be managed and cleaned up as soon as possible. Appropriately stocked spill kits will be located in each construction area. All site personnel will receive an induction prior to commencing work in the handling and storage of dangerous goods and in spill containment procedures. A hazard identification and risk assessment process will be undertaken for the storage of dangerous goods in the construction corridor. The Safety Data Sheets (SDS) for all dangerous goods and hazardous materials will be kept on site. Where practicable, any refuelling undertaken at site will be undertaken in a designated refuelling area to reduce the risk of contamination to the environment. Regulated wastes will be transported by a licensed contractor to a licensed waste management facility able to accept the waste. 	MBV
Landscape and Visual Amenity	
Control Activities	Responsibility
<ul style="list-style-type: none"> Landscape and visual amenity will be managed in accordance with the CEMP Landscape and Visual Amenity Control Plan. Vegetation clearance at sensitive sites will be avoided where practicable. Upon completion of construction, all construction materials will be removed to a suitable location. Appearance of other features such as signs and fencing will be considered as minimal visual amenity impacts. Rehabilitation and Revegetation will be undertaken at the construction areas in accordance with the CEMP Rehabilitation and Revegetation Control Plan. 	MBV
General Rehabilitation and Remediation	
Control Activities	Responsibility
<ul style="list-style-type: none"> All remediation works at the construction areas will be undertaken in the accordance with the CEMP Rehabilitation and Revegetation Control Plan. 	MBV

<p>The extent and species mix of vegetation and/or fauna habitat, will be determined during pre-clearance surveys. These details will be included in the CEMP Rehabilitation and Revegetation Control Plan following the pre-clearance surveys.</p> <ul style="list-style-type: none"> Reinstatement, which is the process of bringing the landscape back to the original profile of the surrounding environment, including site stabilisation and riparian revegetation. Rehabilitation which is the process of establishing vegetation back onto the site following reinstatement. Ongoing management of rehabilitation areas to control pest species, minimise threats to rehabilitation success and rectify erosion and landform stability issues identified during monitoring. <p>Topsoil will be stripped, stockpiled away from waterways and separately to other cleared material and managed in accordance with the CEMP Rehabilitation and Revegetation Control Plan.</p> <p>Reinstatement will commence as soon as practicable after construction activities and no later than one month after completion of works.</p> <p>During reinstatement of impacted areas, soils will be replaced so that the topsoil depth is consistent with pre-clearance depths and profiles.</p> <p>Ground cover then be established at disturbed sites following respraying of topsoil. Ground cover can include organic material, leaf litter, mulch, hydromulch, living or dead plant material, rocks, logs, other woody materials or erosion control materials.</p> <p>Disturbed areas may also be sown with a cover crop immediately following topsoil respraying in areas with high erosion potential.</p> <p>Rehabilitation will primarily rely on natural regeneration from the soil seed bank and reproductive plant material delivered by the tides as well as relocating the salvaged and surviving plants back to where they were removed from.</p> <p>Where either natural regeneration or reinstatement of the relocated plants fails to meet the performance criteria outlined in the CEMP Rehabilitation and Revegetation Control Plan, assisted revegetation and direct planting will be undertaken in accordance with the Control Plan and with a species mix and density that is consistent with the pre-clearance conditions.</p>	<p>Refer to CEMP for contact details.</p> <p>MBV</p> <p>References</p> <p>Pusey, BJ and Arthington, AH (2003). Importance of the riparian zone to the conservation and management of freshwater fish: a review. Marine and Freshwater Research, 54, 1-16.</p>
Control Activities	Responsibility