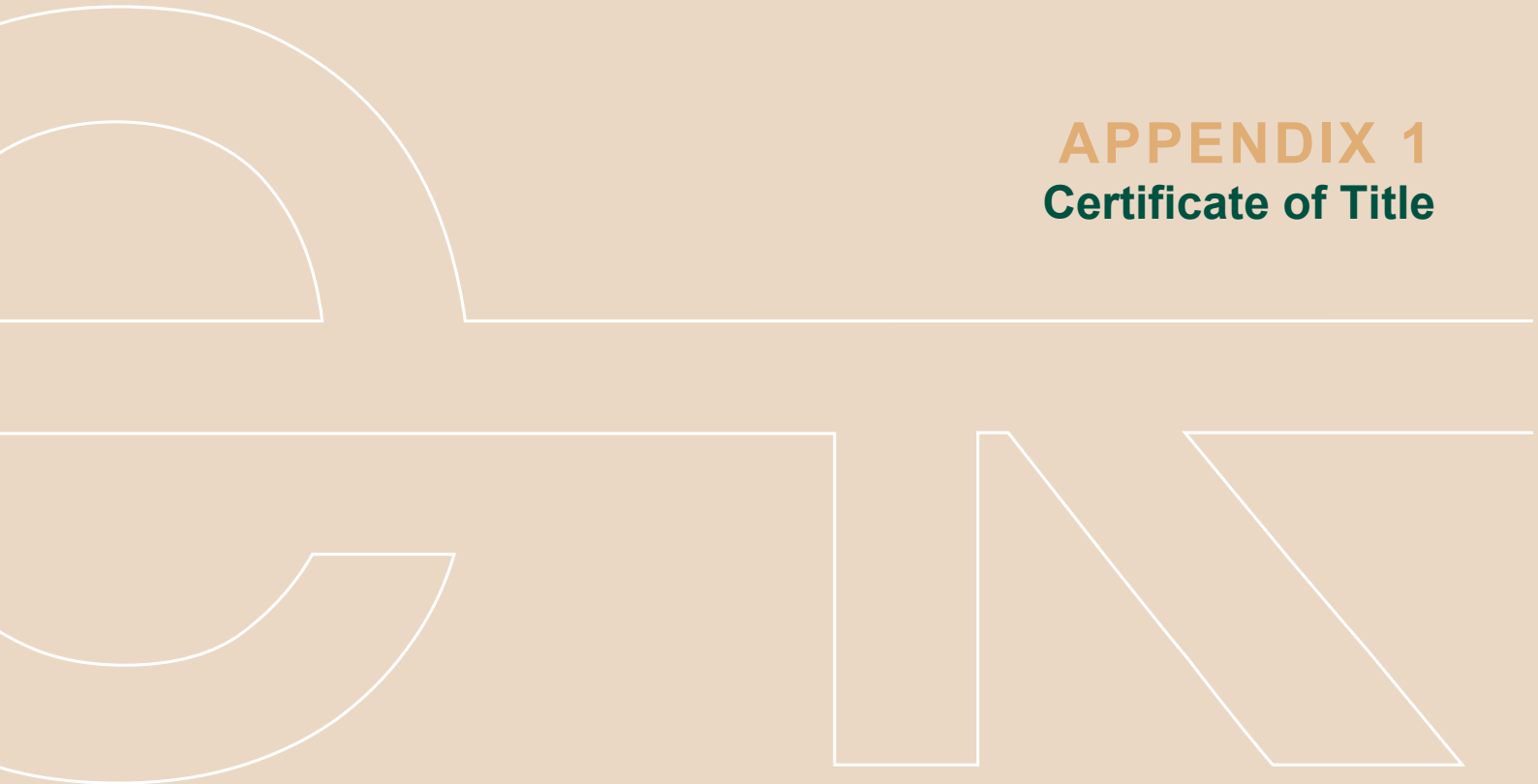




APPENDIX 1
Certificate of Title



PIPER ALDERMAN (EL - PEXA)
L 16
70 Franklin ST
Adelaide SA 5000

19 June 2025

CONFIRMATION OF REGISTRATION NOTICE

The following dealings have been registered -

Dealing(s): TRANSFER 14548278
Title(s): CT 5667/407
Registration Date: 19/06/2025
Customer Reference: LBS 455801

Confirmations of registration are attached on the following page(s).



Brenton Pike

Chief Executive Officer

Land Services SA

Land Services SA acting under delegation of the Registrar-General pursuant to section 17 of the Real Property Act 1886 (SA).

CONFIRMATION OF REGISTRATION

Certificate of Title - Volume 5667 Folio 407

Estate Type

FEE SIMPLE

Registered Proprietor(s)

WILLUNGA BASIN WATER CO. PTY. LTD. (ACN: 081 133 619)
OF 120 MAIN ROAD MCLAREN VALE SA 5171

Description of Land

ALLOTMENT 3 FILED PLAN 153389
IN THE AREA NAMED BLEWITT SPRINGS
HUNDRED OF WILLUNGA

Easements

NIL

Schedule of Dealings

NIL

Registrar-General

Lands Titles Office





The Registrar-General certifies that this Title Register Search displays the records maintained in the Register Book and other notations at the time of searching.



Certificate of Title - Volume 5667 Folio 407

Parent Title(s) CT 2422/55
Creating Dealing(s) CONVERTED TITLE
Title Issued 01/07/1999 Edition 3 Edition Issued 23/06/2015

Estate Type

FEE SIMPLE

Registered Proprietor

G. PATRITTI & CO. PTY. LTD. (ACN: 007 584 803)
OF 13-23 CLACTON ROAD DOVER GARDENS SA 5048

Description of Land

ALLOTMENT 3 FILED PLAN 153389
IN THE AREA NAMED BLEWITT SPRINGS
HUNDRED OF WILLUNGA

Easements

NIL

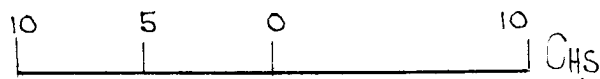
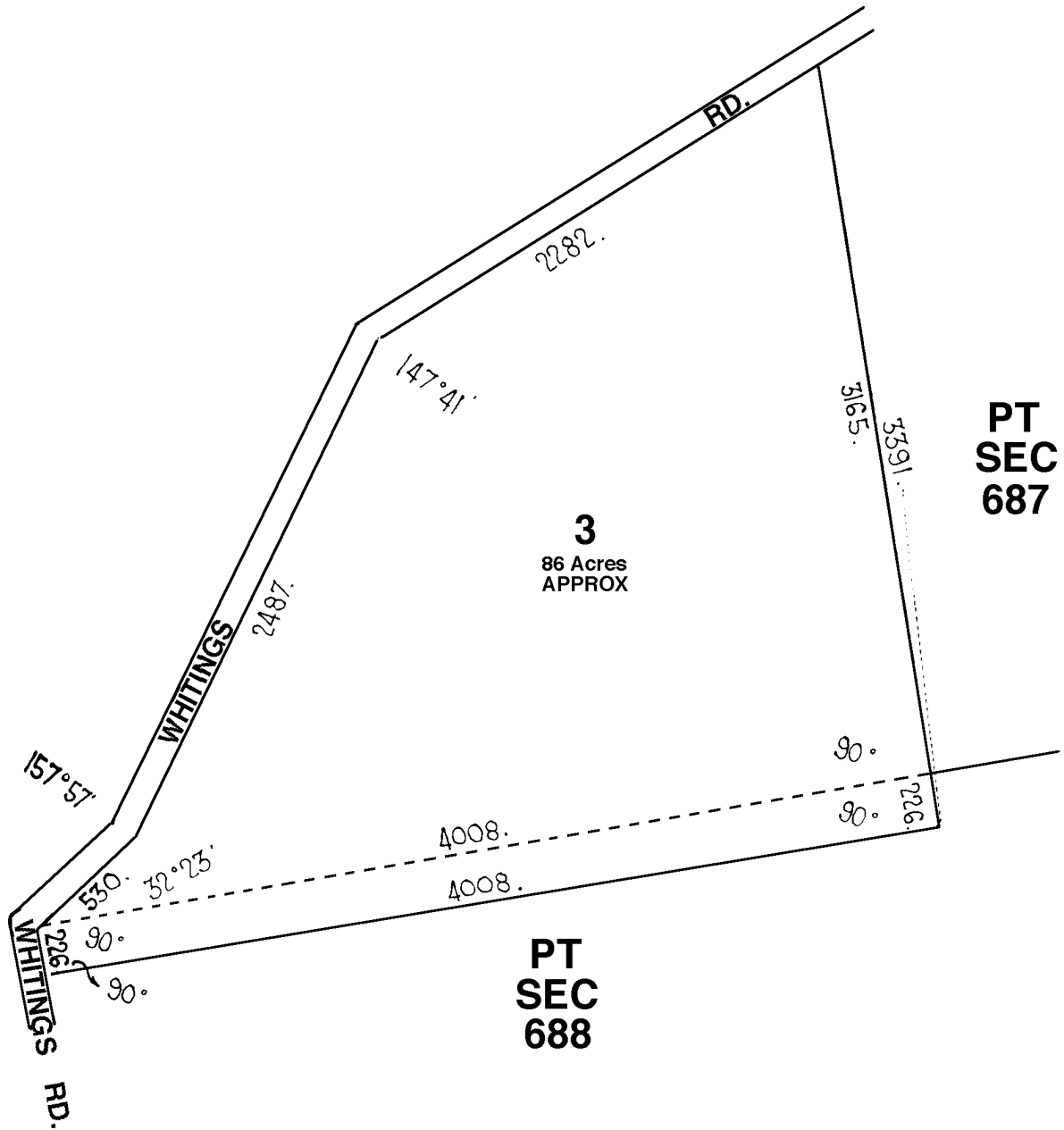
Schedule of Dealings

NIL

Notations

Dealings Affecting Title	NIL
Priority Notices	NIL
Notations on Plan	NIL
Registrar-General's Notes	NIL
Administrative Interests	NIL

THIS PLAN IS SCANNED FOR CERTIFICATE OF TITLE 2422/55



FOR METRIC CONVERSION	
1 LINK	= 0.201168 METRES
1 CHAIN	= 100 LINKS
1 ACRE	= 0.404686 HECTARES
1 ROOD	= 1011.7 m ²
1 PERCH	= 25.29 m ²

NOTE: SUBJECT TO ALL LAWFULLY EXISTING PLANS OF DIVISION

A large, white, stylized graphic element that spans across the middle of the page. It features a semi-circle on the left, a horizontal line, and a series of geometric shapes including a curve, a vertical line, and a slanted line, resembling a stylized 'ENI' or a decorative flourish.

APPENDIX 2 DIT Sponsorship Letter



Government
of South Australia

Department for Infrastructure
and Transport

In reply please quote #23949800
Enquiries to Marianne.Wierda@sa.gov.au

Mr Rob Gagetti
Senior Associate
ekistics
Level 3, 431 King Willia Street
Adelaide SA 5000

Email: rgagetti@ekistics.com.au

**OFFICE OF THE
CHIEF EXECUTIVE**

83 Pirie Street
Adelaide SA 5000
Kaurna Country

GPO Box 1533
Adelaide SA 5001
DX 171

dit.sa.gov.au

ABN 92 366 288 135

**Build. Move.
Connect.**

Dear Mr Gagetti

Re: Blewitt Springs – Essential Infrastructure Request

I refer to your recent correspondence to the Department for Infrastructure and Transport (the Department), seeking sponsorship under section 131 of the *Planning, Development and Infrastructure Act 2016* (the Act), for a recycled water storage facility (RWSF) and associated infrastructure at Blewitt Springs. It is acknowledged that you write on behalf of your client Willunga Basin Water Company Pty Ltd (WBWC).

The proposed works described below meet the definition of ‘essential infrastructure,’ as outlined in Part 1, section 3 of the Act:

- two water storage facilities located at 260 Whittings Road, Blewitt Springs along with a shed housing a pump station and perimeter security fencing;
- water distribution infrastructure consisting of pipework installed within the local road network along Whittings Road, Kays Road and through private landholdings; and
- underground pipework along Little Road and under Victor Harbor Road to service the Little Road pump station at Willunga.

As such, I am pleased to confirm support and specific endorsement of these works as detailed in the attached plans, pursuant to section 131(2)(c) of the Act.

It is WBWC’s responsibility to obtain all other statutory approvals, licences and permits from other authorities to enable the development to proceed.

Please note that all costs of the development application, including lodgement with the State Planning Commission (SPC) and any subsequent action is the responsibility of WBWC. No representations or warranties are given in relation to the outcome of the development application, or the time taken to secure a planning decision.

Further, a development application must be lodged with SPC on or prior to 30 November 2026. If this is not achieved by that time, my support under section 131(2)(c) of the Act will lapse.

The Department also wishes to reiterate that there is the potential for the future widening of Victor Harbor Road and that this must be considered where boring commences. Please note the following:

- Potential widening offsets from the property boundary are 10m from the western side and 35m on the eastern side.
- Departmental boring specifications are to be complied with, with a minimum cover of 1.5m being provided to reduce the likelihood of disturbance or relocation in the future.
- A section 221 Local Government Act Deed is required detailing the responsibility to remove or relocate infrastructure if required in the future.

Please liaise with Mr Marc Hryciuk, Manager Transport Assessment by email Marc.Hryciuk@sa.gov.au or phone (08) 7133 1664 prior to any works around Victor Harbor Road commencing.

Please contact Ms Marianne Wierda, Senior Project Officer, Case Management Services by email Marianne.Wierda@sa.gov.au or phone (08) 7133 2481 prior to lodgement of the development application.

Yours sincerely



Graeme Jackson
Executive Director
PEOPLE AND CORPORATE SERVICES

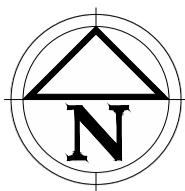
3 November 2025

Attachment 1: *Plans of sponsored infrastructure works*



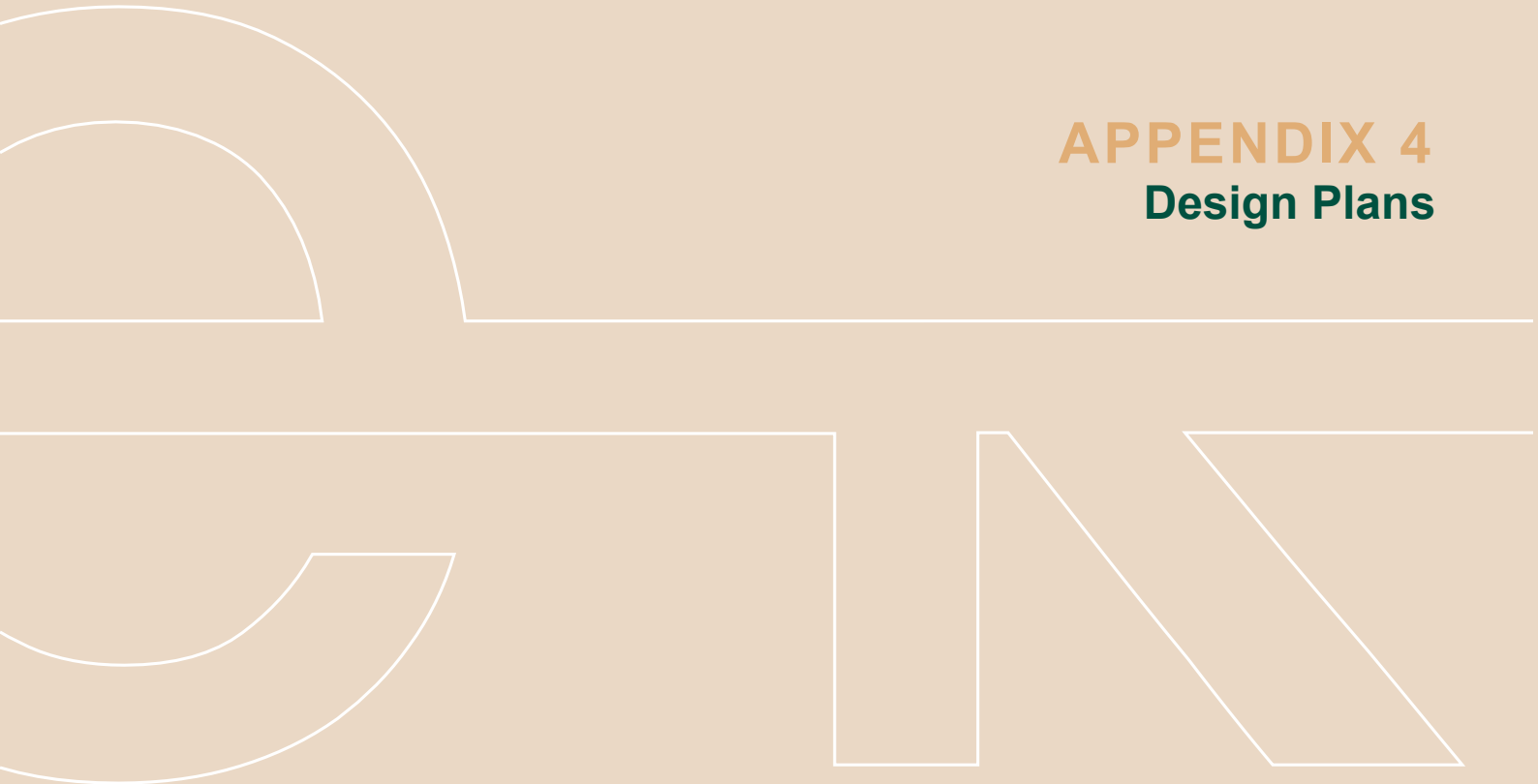
APPENDIX 3
Site Contour Plan

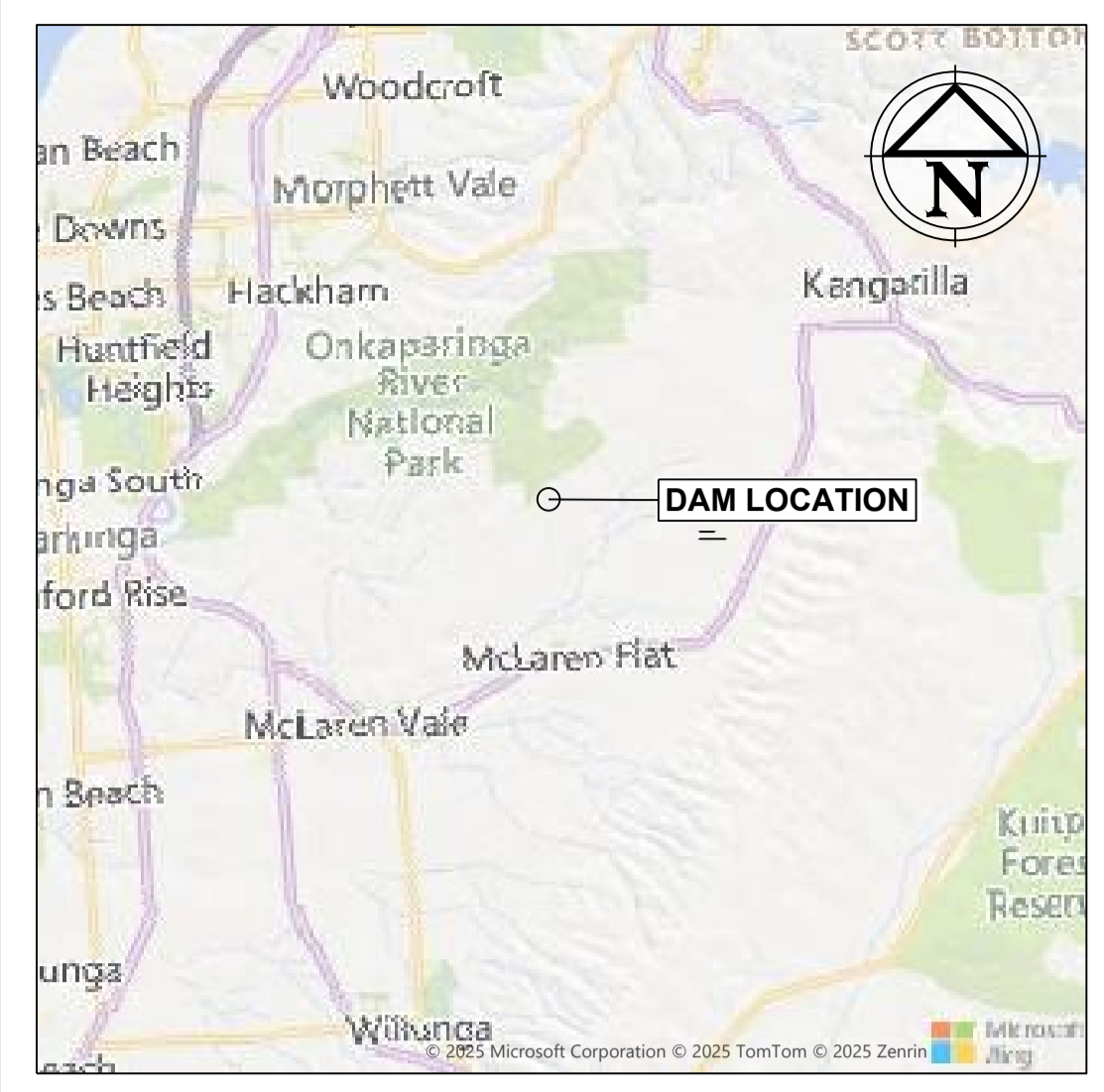
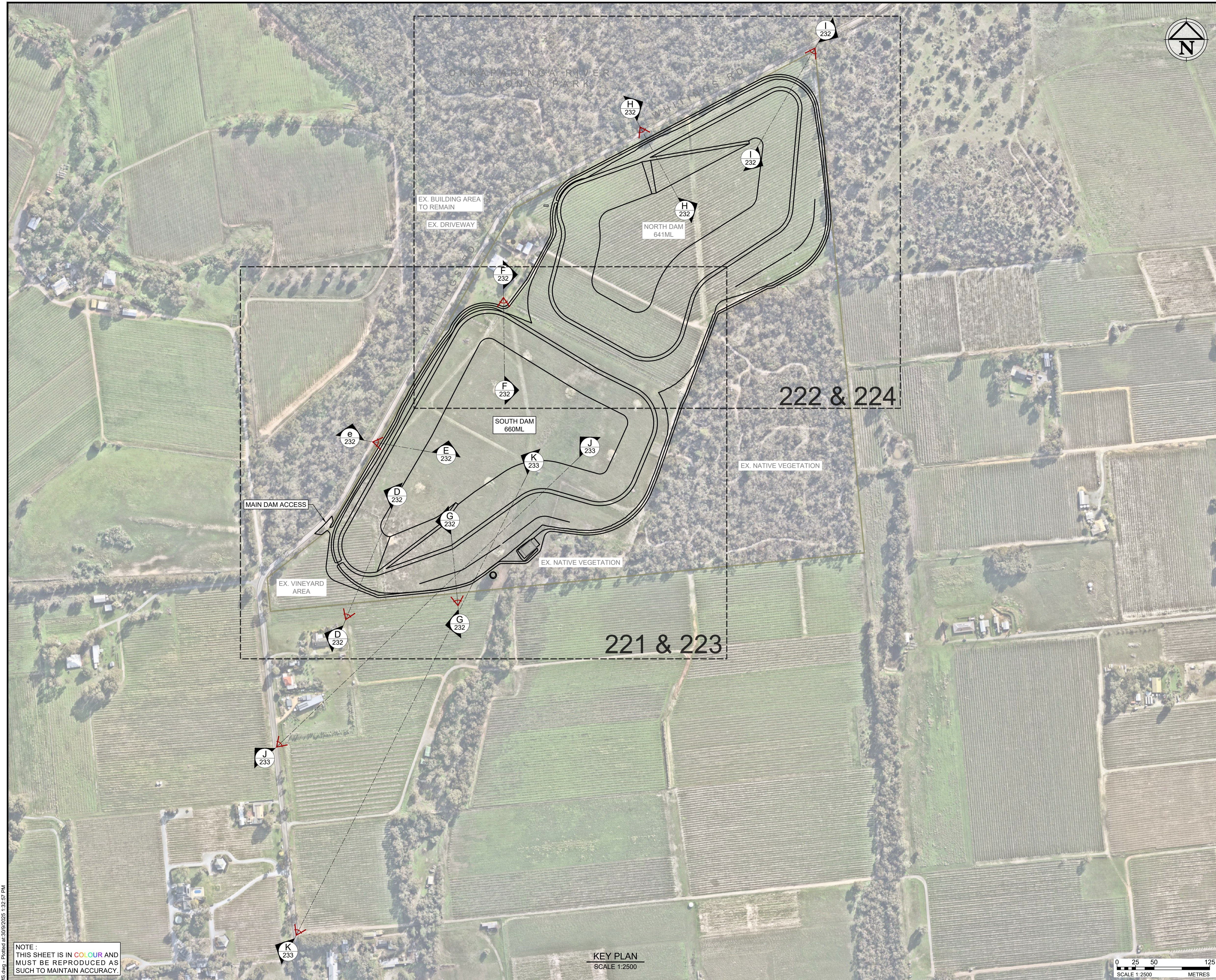






APPENDIX 4
Design Plans



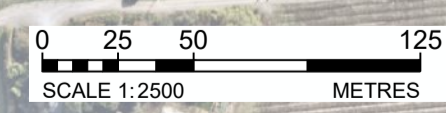


LOCATION PLAN
SCALE 1:150,000

LEGEND	
	PROPOSED DAM & TRACK OUTLINE
	PROPERTY BOUNDARY
	EXISTING FENCE
	SHEET & REF. NUMBER
	SECTION MARK No. & SHEET REF No.

NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

KEY PLAN
SCALE 1:2500



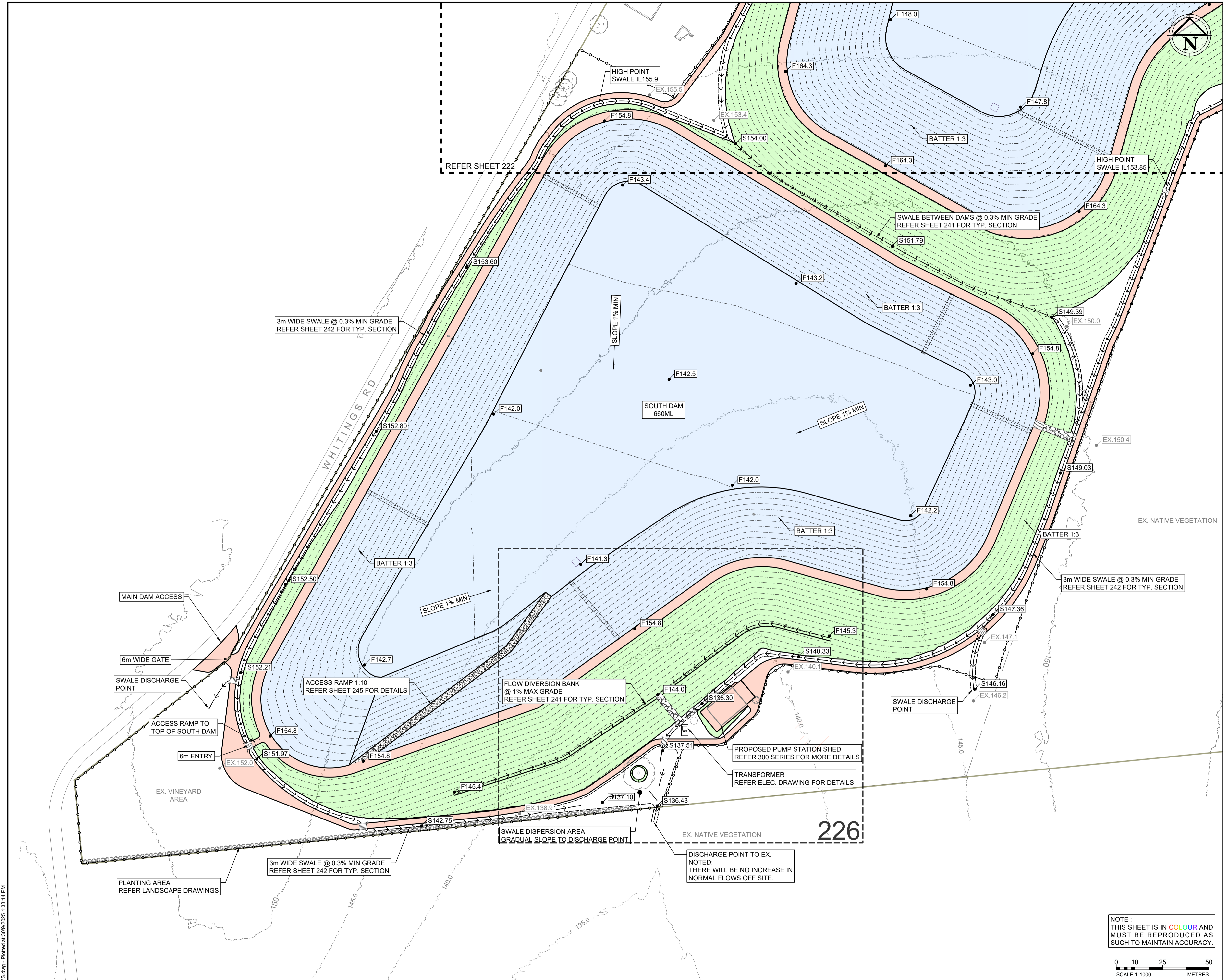
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:2500	SHEET SIZE: A1
CHECKED: M. ALLEN		DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission.		DATE: 30/09/25	ALL LEVELS ARE TO AHD	
The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		REF MARK:		

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	OVERALL PLANS LOCATION & KEY PLAN		
PROJECT REF:	17639	SHEET No.:	211
REV:			D

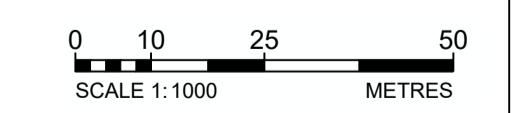
Drawing file: 17639-20250923-11-00-DAMS.dwg - Plotted at: 30/09/2025 1:32:57 PM



- SITWORKS LEGEND**
- F###.# FINISHED SURFACE LEVEL
 - EX###.# EXISTING SURFACE LEVEL
 - S###.# SWALE INVERT LEVEL
 - FINISHED EDGES
 - - - FINISHED CONTOUR
 - → → SWALE CENTERLINE (WITH SLOPE DIRECTION)
 - ▭ CULVERT (REF. SHEET 242 FOR DETAILS)
 - SECURITY FENCE LINE
 - SAFETY LADDER w/LIFEBUOY
- EXISTING LEGEND**
- PROPERTY BOUNDARY
 - CONTOUR
 - ## SHEET FRAME & REF. NUMBER
- PAVEMENT LEGEND**
- 150mm THICKNESS QUARRY RUBBLE 20mm NOMINAL
 - 1.5mm WHITE ON BLACK HDPE LINER (BY OTHERS), ON BIDIM A34 GEOTEXTILE MEMBRANE, ON MIN. THICKNESS CLAY
 - 600mm GRASS SEED ON MIN. THICKNESS TOPSOIL
 - 300mm THICKNESS OF RIPRAP ON GEOTEXTILE
 - 100mm THICKNESS CONCRETE

NOTE: CONTRACTOR TO ALLOW SETTLEMENT OF DAM WALL TO ARCHIVE FINISHED SURFACE LEVEL.

NOTE: THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.



Drawing file: 17639-2020-01-TWCD-DAMS.dwg - Plotted at: 20/09/2025 1:33:14 PM

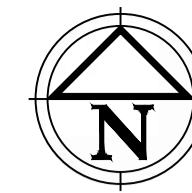
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:1000	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94	REF MARK:
<small>COPYRIGHT:</small> This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.				

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	DETAILED PLAN SITWORKS PLAN - SOUTH DAM		
PROJECT REF:	17639	SHEET No.:	221
REV:			D

ONKAPARINGA RIVER
NATIONAL PARK



SITWORKS LEGEND

- F###.# FINISHED SURFACE LEVEL
- EX###.# EXISTING SURFACE LEVEL
- S###.# SWALE INVERT LEVEL
- FINISHED EDGES
- FINISHED CONTOUR
- SWALE CENTERLINE (WITH SLOPE DIRECTION)
- CULVERT (REF. SHEET 242 FOR DETAILS)
- SECURITY FENCE LINE
- SAFETY LADDER w/LIFEBUOY

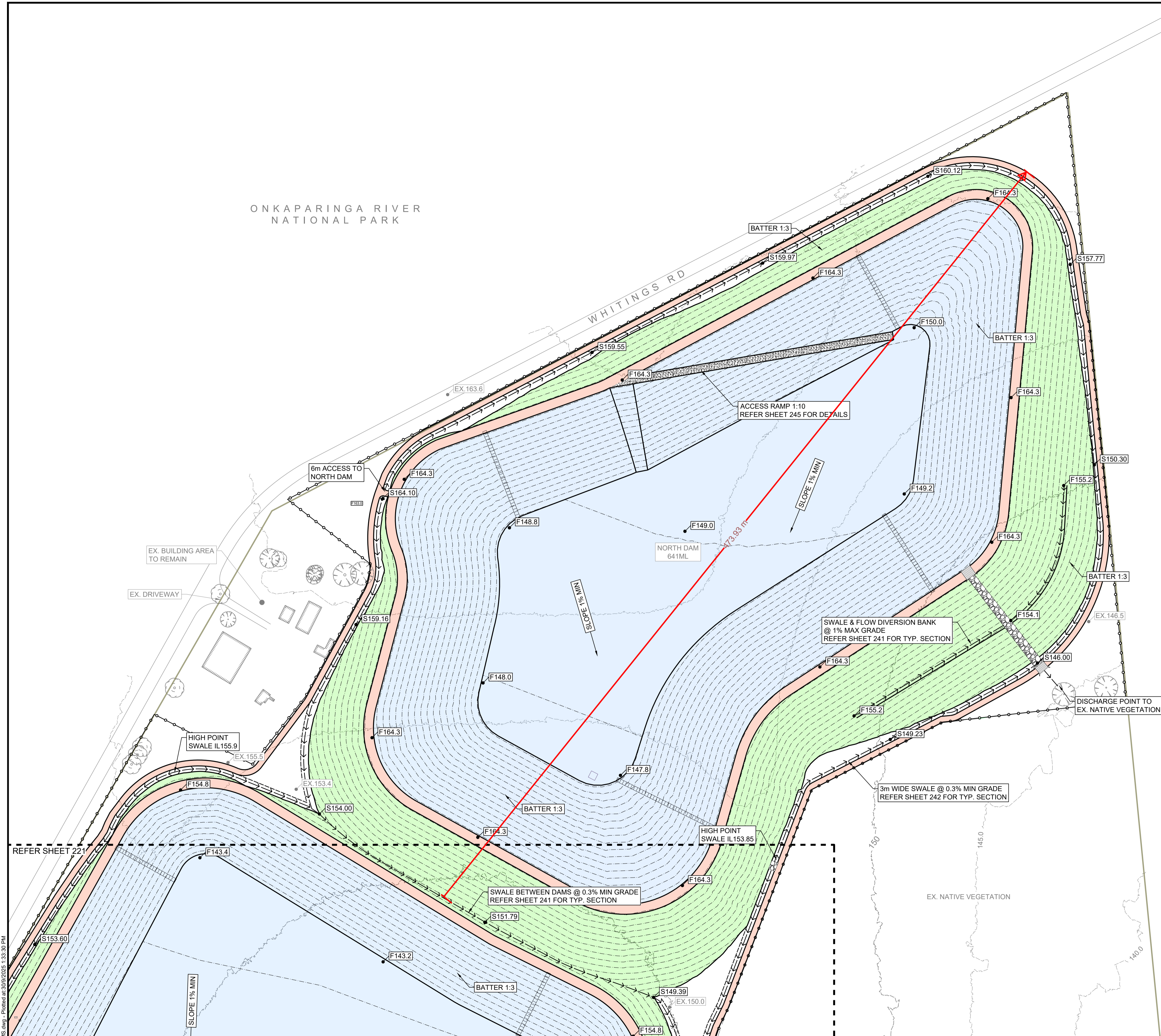
EXISTING LEGEND

- PROPERTY BOUNDARY
- CONTOUR
- SHEET FRAME & REF. NUMBER

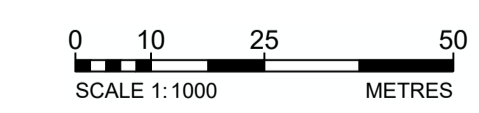
PAVEMENT LEGEND

- 150mm THICKNESS QUARRY RUBBLE 20mm NOMINAL
- 1.5mm WHITE ON BLACK HDPE LINER (BY OTHERS), ON BIDIM A34 GEOTEXTILE MEMBRANE, ON MIN. THICKNESS CLAY
- 300mm GRASS SEED ON MIN. THICKNESS TOPSOIL
- 300mm THICKNESS OF RIPRAP ON GEOTEXTILE
- 100mm THICKNESS CONCRETE

NOTE:
CONTRACTOR TO ALLOW SETTLEMENT OF DAM WALL TO ARCHIVE FINISHED SURFACE LEVEL.



NOTE:
THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.



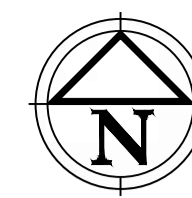
REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL
C	29/08/25	MG	90% DETAILED DESIGN
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION

TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:1000	SHEET SIZE: A1
		DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
		CHECKED: M. ALLEN	DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94
		APPROVED: M. ALLEN	DATE: 30/09/25	REF MARK:

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT: WILLUNGA BASIN WATER		
PROJECT: BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE: DETAILED PLAN SITEWORKS PLAN - NORTH DAM		
PROJECT REF: 17639	SHEET No.: 222	REV: D

Drawing file: 17639-202503-TWCD DAMS.dwg - Plotted at: 30/09/2025 1:33:30 PM



ONKAPARINGA RIVER
NATIONAL PARK

WHITINGS RD

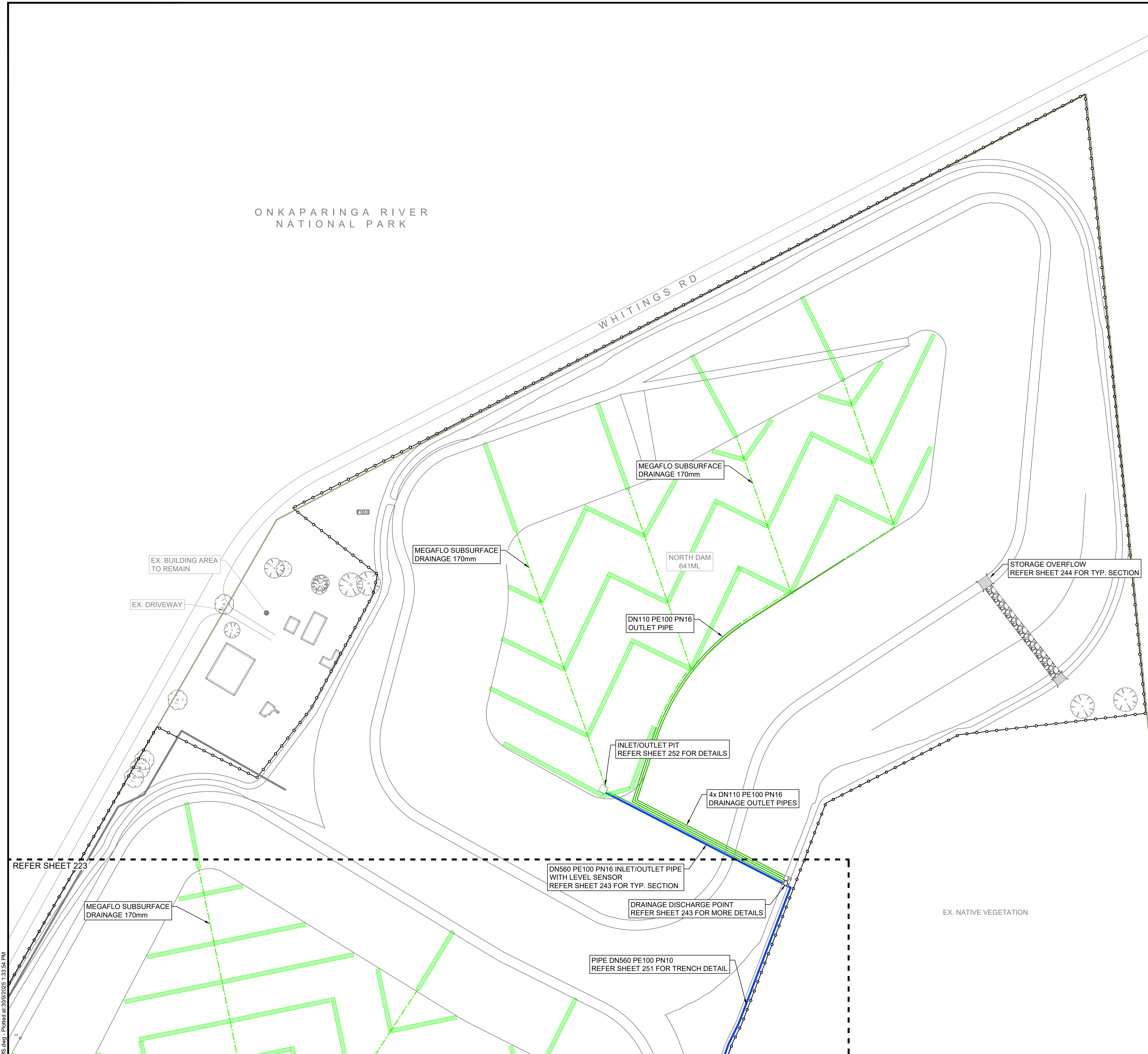
SITWORKS LEGEND

- ISOLATION VALVE
- AIR VALVE
- INLET/OUTLET PIPE
- OUTLET PIPE TO ARMERY
- BACKFLUSH PIPE
- EMERGENCY RELEASE PIPE
- MEGAFLO SUBSURFACE DRAINAGE
- DRAINAGE OUTLET PIPE
- DRAINAGE NET
- SWALE CENTRELINE (WITH SLOPE DIRECTION)
- CULVERT (REF. SHEET 242 FOR DETAILS)
- RIPRAP
- SECURITY FENCE LINE
- HIGH VOLTAGE CONDUITS

EXISTING LEGEND

- PROPERTY BOUNDARY
- CONTOUR
- SHEET & REF. NUMBER

NOTES:
FOR TYPICAL PIPE TRENCHES
REFER SHEET 251



NOTE:
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.



Drawing file: 17639-2020-01-11-10-DAMS.dwg - Plotted at: 20/09/2025 1:33:54 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: **TENDER ISSUE**
NOT FOR CONSTRUCTION

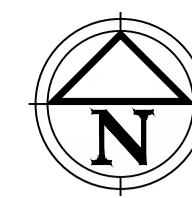
COPYRIGHT:
This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.

DRAFTER: J. TERZIC	SCALE: 1:1000	SHEET SIZE: A1
DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
CHECKED: M. ALLEN	DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94
APPROVED: M. ALLEN	DATE: 30/09/25	ALL LEVELS ARE TO AHD
		REF MARK:

pinion
ADVISORY

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

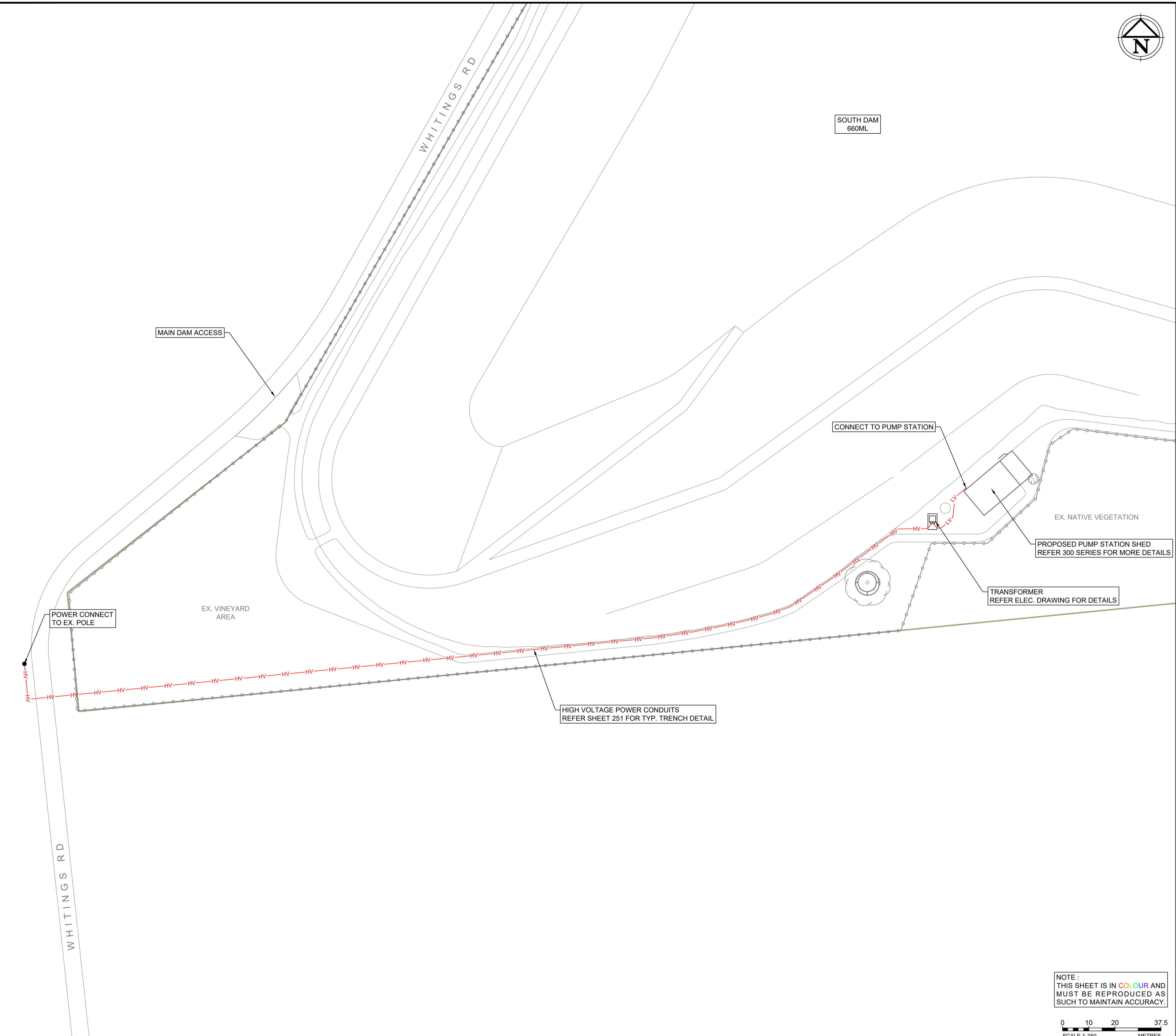
CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	DETAILED PLAN PIPEWORK PLAN - NORTH DAM		
PROJECT REF:	17639	SHEET No.:	224
REV:			D



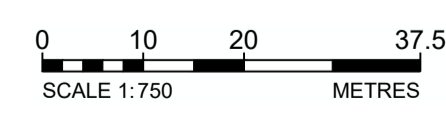
SITWORKS LEGEND

- HV—HV— HIGH VOLTAGE LINE
- LV—LV— LOW VOLTAGE LINE
- EX. ELECTRICAL POLE
- ○ ○ ○ ○ SECURITY FENCE
- — — — — DAM LIMITS

NOTES:
FOR TYPICAL PIPE TRENCHES
REFER SHEET 251



NOTE:
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.



Drawing file: 17639-202503-TVC-DAMS.dwg - Plotted at: 20/09/2025 1:34:01 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

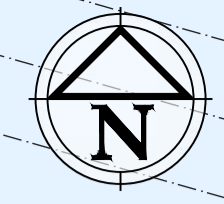
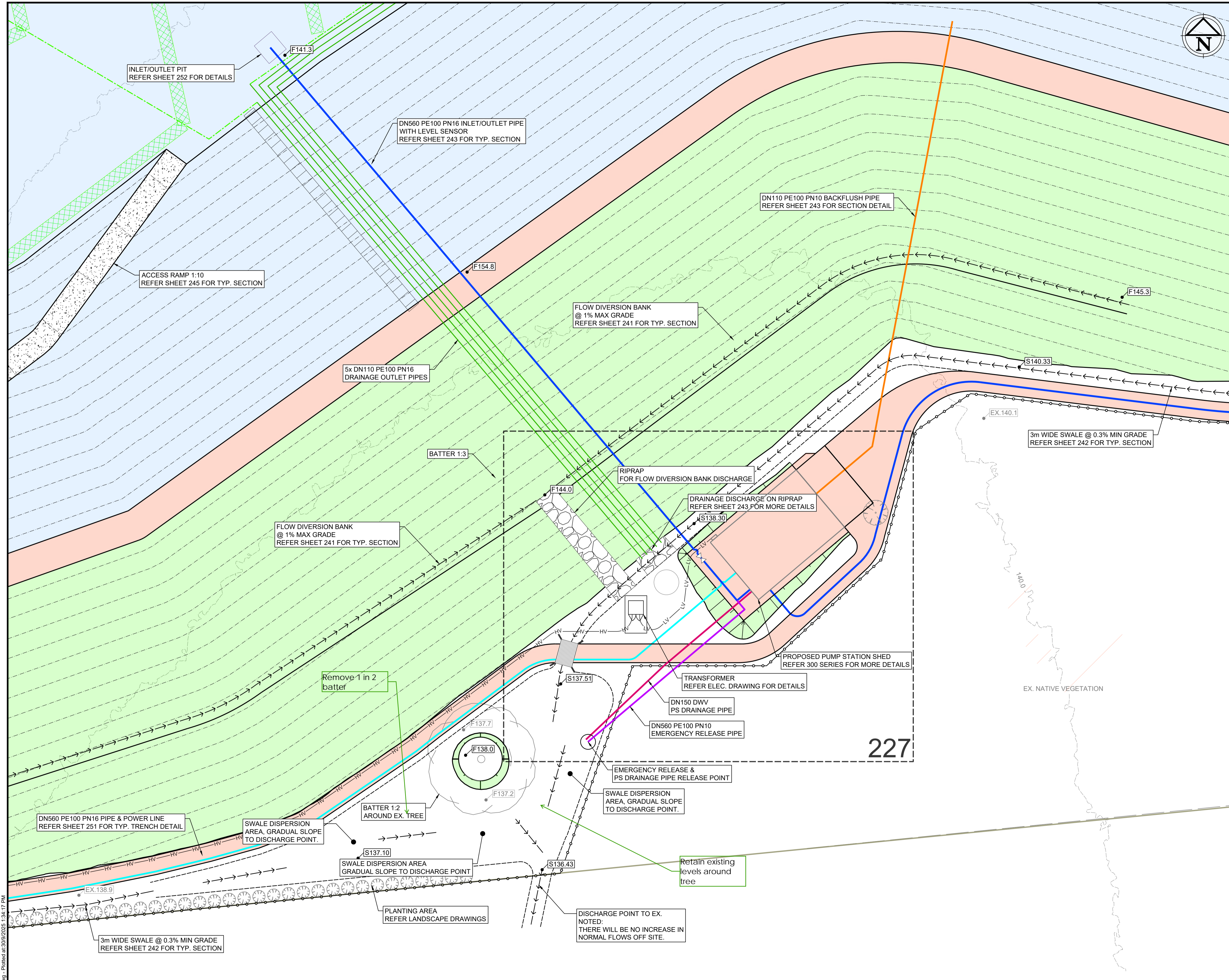
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:750	SHEET SIZE: A1
CHECKED: M. ALLEN		DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
		DATE: 30/09/25	REF MARK:	

pinion
ADVISORY

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	DETAILED PLAN ELECTRICAL/CONDUITS PLAN		
PROJECT REF:	17639	SHEET No.:	225
REV:			D

COPYRIGHT:
This document is and shall remain the property of PINION ADVISORY PTY. LTD.
The document may only be used for the purpose for which it was commissioned
and in accordance with the terms of engagement for the commission.
The arrangement and general details as shown on this drawing are essentially
diagrammatic and must be applied to the circumstances as found on site.



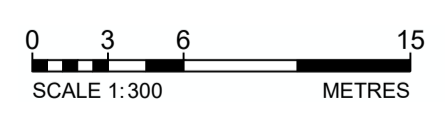
- SITWORKS LEGEND**
- F###.## FINISHED SURFACE LEVEL
 - EX###.## EXISTING SURFACE LEVEL
 - FINISHED EDGES
 - - - PROPOSED CONTOURS
 - ⊗ ISOLATION VALVE
 - INLET/OUTLET PIPE
 - OUTLET PIPE TO ARMERY
 - BACKFLUSH PIPE
 - EMERGENCY RELEASE PIPE
 - PUMP STATION DRAINAGE PIPE
 - - - MEGAFL0 SUBSURFACE DRAINAGE PIPE
 - DRAINAGE OUTLET PIPE
 - DRAINAGE NET
 - → → SWALE CENTRELINE (WITH SLOPE DIRECTION)
 - CULVERT (REF. SHEET 242 FOR DETAILS)
 - SECURITY FENCE LINE
 - SAFETY LADDER

- EXISTING LEGEND**
- PROPERTY BOUNDARY
 - ## CONTOUR
 - ## SHEET & REF NUMBER

- PAVEMENT LEGEND**
- 150mm THICKNESS QUARRY RUBBLE 20mm NOMINAL
 - 1.5m WHITE ON BLACK HDPE LINER (BY OTHERS), ON BIDIM A34 GEOTEXTILE MEMBRANE, ON MIN. THICKNESS CLAY
 - 600mm
 - 300mm GRASS SEED ON MIN. THICKNESS TOPSOIL
 - 300mm THICKNESS OF RIPRAP ON GEOTEXTILE
 - 100mm THICKNESS CONCRETE

NOTES:
FOR TYPICAL PIPE TRENCHES
REFER SHEET 251

NOTE:
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.



Drawing file: 17639-2020-01-TWCO-DRAWING.dwg - Plotted at: 30/09/2025 1:34:17 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

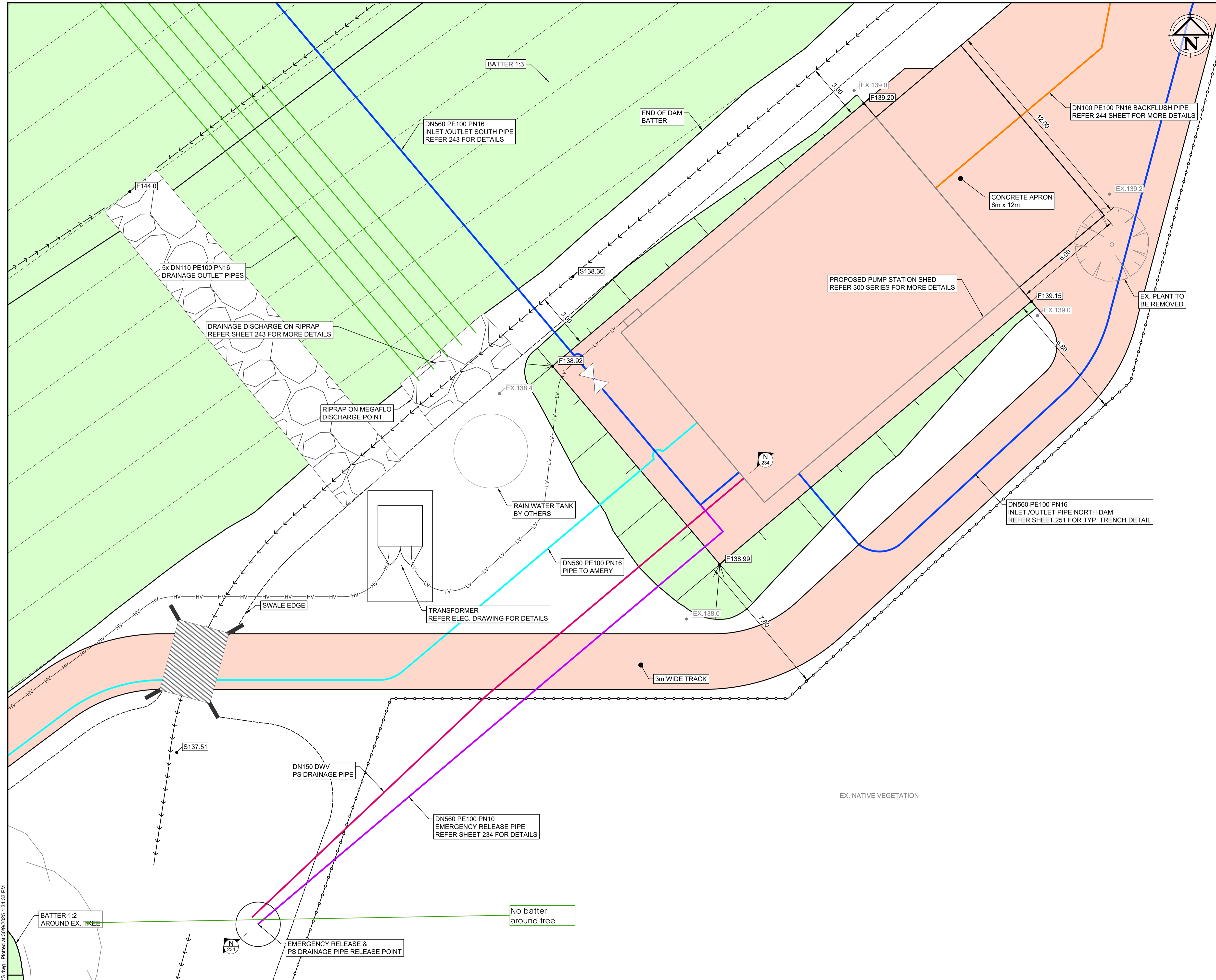
STATUS: **TENDER ISSUE**
NOT FOR CONSTRUCTION

COPYRIGHT:
This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.

DRAFTER: J. TERZIC	CHECKED: M. ALLEN	DATE: 30/09/25	SCALE: 1:300	SHEET SIZE: A1
DESIGNER: J. TERZIC	APPROVED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD
			REF MARK:	

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	DETAILED PLAN ENLARGED PLAN - INLET/OUTLET & PUMP STATION		
PROJECT REF:	17639	SHEET No.:	226
REV:			D



- ### SITeworks LEGEND
- F###.## FINISHED SURFACE LEVEL
 - EX###.## EXISTING SURFACE LEVEL
 - FINISHED EDGES
 - - - PROPOSED CONTOURS
 - ⊗ ISOLATION VALVE
 - INLET/OUTLET PIPE
 - OUTLET PIPE TO ARMERY
 - BACKFLUSH PIPE
 - EMERGENCY RELEASE PIPE
 - PUMP STATION DRAINAGE PIPE
 - - - MEGAFLO SUBSURFACE DRAINAGE PIPE
 - DRAINAGE OUTLET PIPE
 - DRAINAGE NET
 - → → SWALE CENTRELINE (WITH SLOPE DIRECTION)
 - ⊘ CULVERT (REF. SHEET 242 FOR DETAILS)
 - SECURITY FENCE LINE
 - SAFETY LADDER

- ### EXISTING LEGEND
- PROPERTY BOUNDARY
 - - - CONTOUR
 - ⊠ SHEET & REF NUMBER

- ### PAVEMENT LEGEND
- 150mm THICKNESS QUARRY RUBBLE 20mm NOMINAL
 - 1.5mm WHITE ON BLACK HDPE LINER (BY OTHERS), ON BIDIM A34 GEOTEXTILE MEMBRANE, ON MIN. THICKNESS CLAY
 - 300mm GRASS SEED ON MIN. THICKNESS TOPSOIL
 - 300mm THICKNESS OF RIPRAP ON GEOTEXTILE
 - 100mm THICKNESS CONCRETE

NOTES:
 FOR PIPE WORK AROUND PUMP STATION DETAILS REFER SHEET 228
 FOR TYPICAL PIPE TRENCHES REFER SHEET 251

NOTE:
 THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.



Drawing file: 17639-202501-TWCO-DAM-ENG - Ploblet at 13/09/2025 1:34:33 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

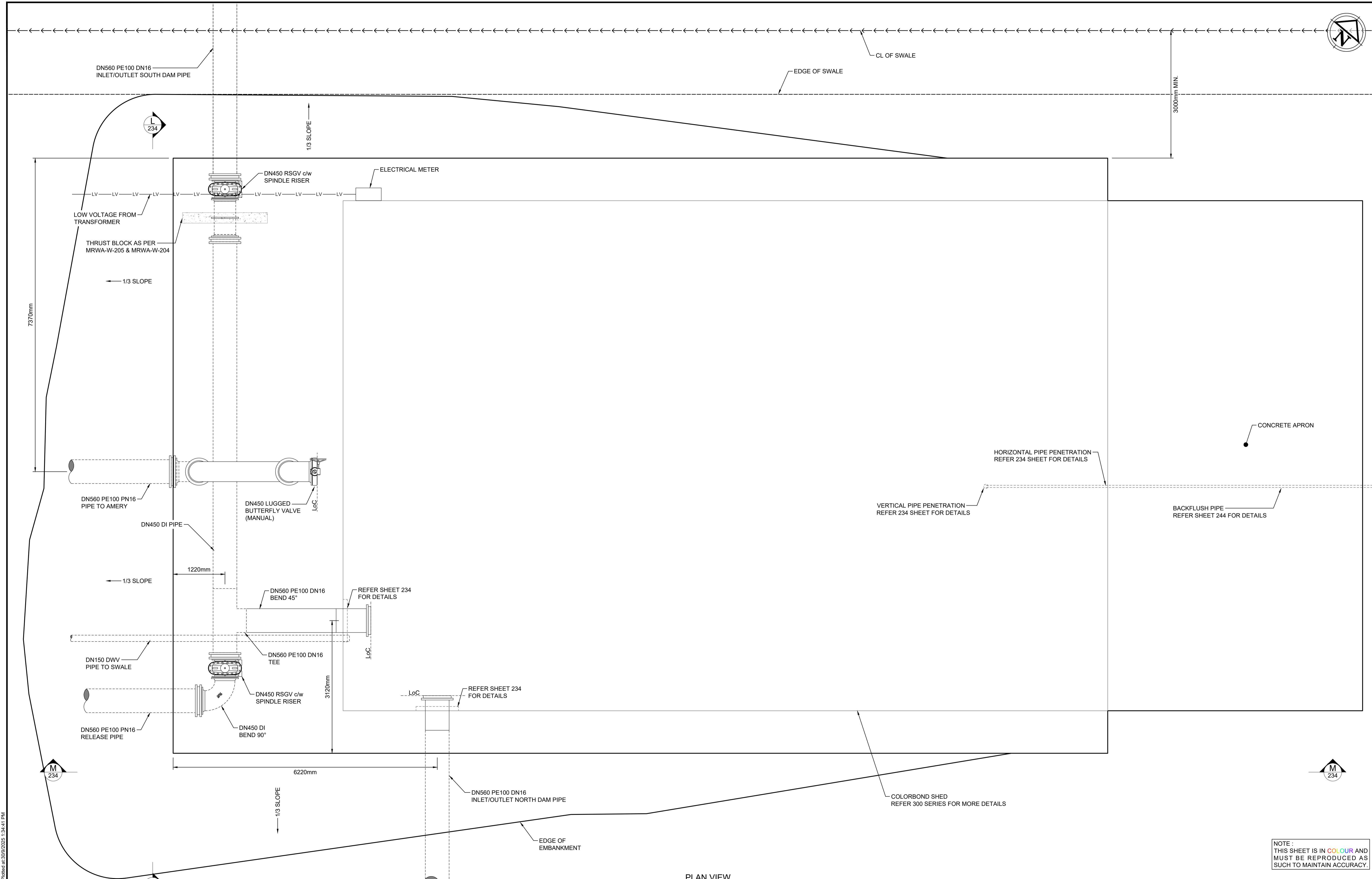
TENDER ISSUE
NOT FOR CONSTRUCTION

COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.

DRAFTER: J. TERZIC	SCALE: 1:100	SHEET SIZE: A1
DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
CHECKED: M. ALLEN	DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94
APPROVED: M. ALLEN	DATE: 30/09/25	ALL LEVELS ARE TO AHD
		REF MARK:

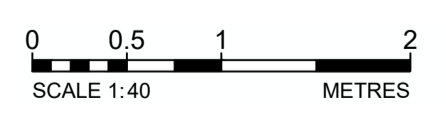
1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

CLIENT: WILLUNGA BASIN WATER		
PROJECT: BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE: DETAILED PLAN ENLARGED PLAN - PUMP STATION		
PROJECT REF: 17639	SHEET No.: 227	REV: D



PLAN VIEW
SCALE 1:40

NOTE: THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.



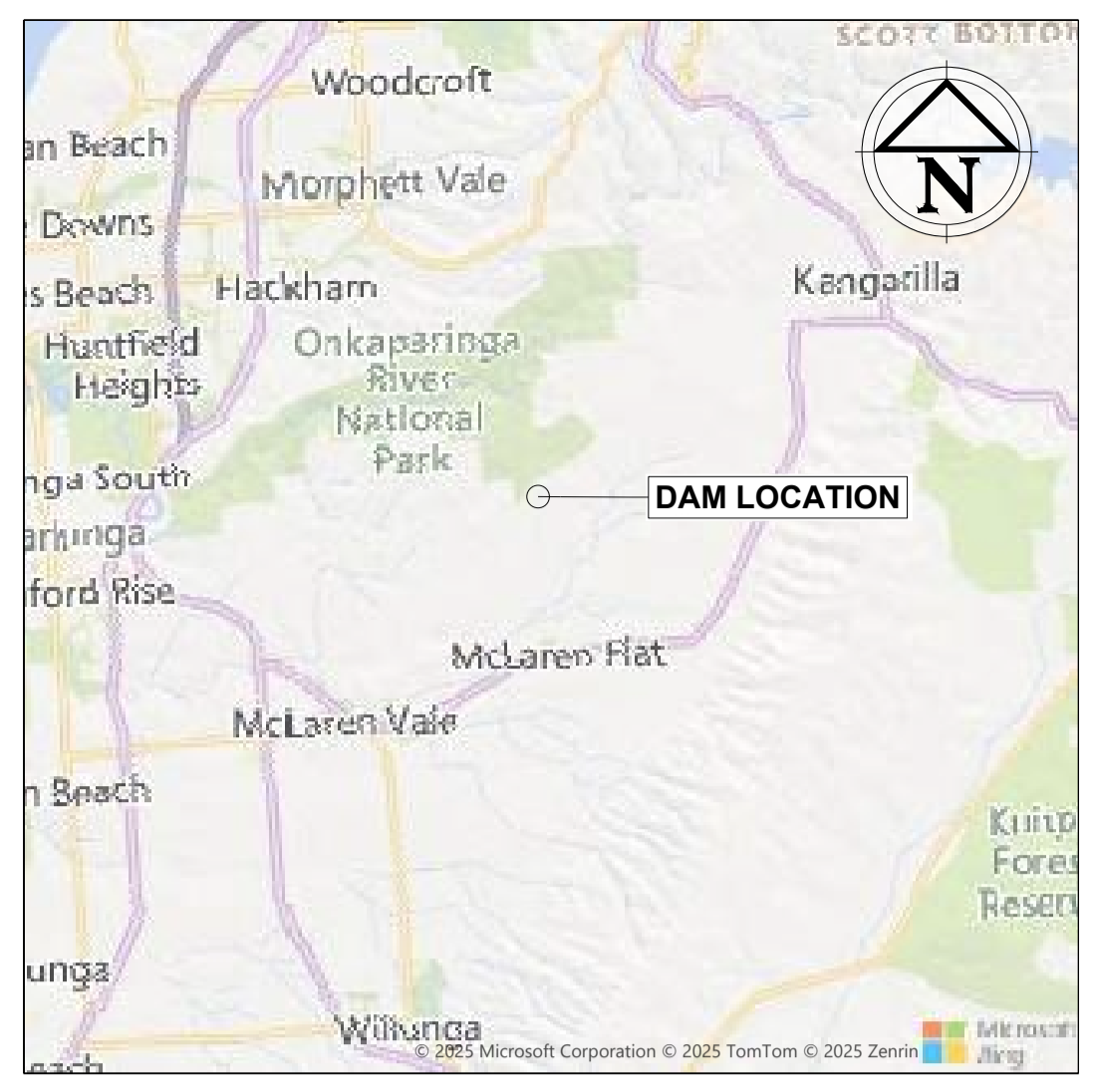
Drawing file: 17639-2020-D:\V\CD\DWG\DWG.dwg - Plotted at: 30/09/2025 1:34:41 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:40	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 30/09/25	REF MARK:	

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	DETAILED PLAN MECHANICAL PLAN - PUMP STATION		
PROJECT REF:	17639	SHEET No.:	228
REV:			D



LOCATION PLAN
SCALE #####

LEGEND	
	PROPERTY BOUNDARY
	EXISTING FENCE
	PROPOSED FENCE
	PROPOSED DAM DESIGN OUTLINES
	PROPOSED SWALE
	PROPOSED TRACK
	EXISTING TRACK
	VEGETATION AREA OUTLINE
	EX. SINGLE TREE AND REF No.
	EX. GROUP OF TREES AND REF No.

PROJECT STAGES	
STAGE 1	
STAGE 2	

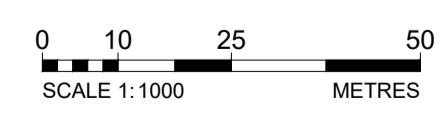
TREE REMOVAL LIST		
TREE No.	REMOVAL REQUIRED	TREE NAME
1	R	Acacia pycnantha
2	R	Acacia pycnantha
3	R	Acacia pycnantha
CONIFER 1	P	-
SITE A1	R	Eucalyptus fasciculosa (Pink Gum) woodland
SITE B1	R	Introduced pasture with scattered native flora

NOTES:

R	= TO BE REMOVED
P	= TO BE PRESERVED

NOTE:
THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.

PLAN
SCALE 1:1000



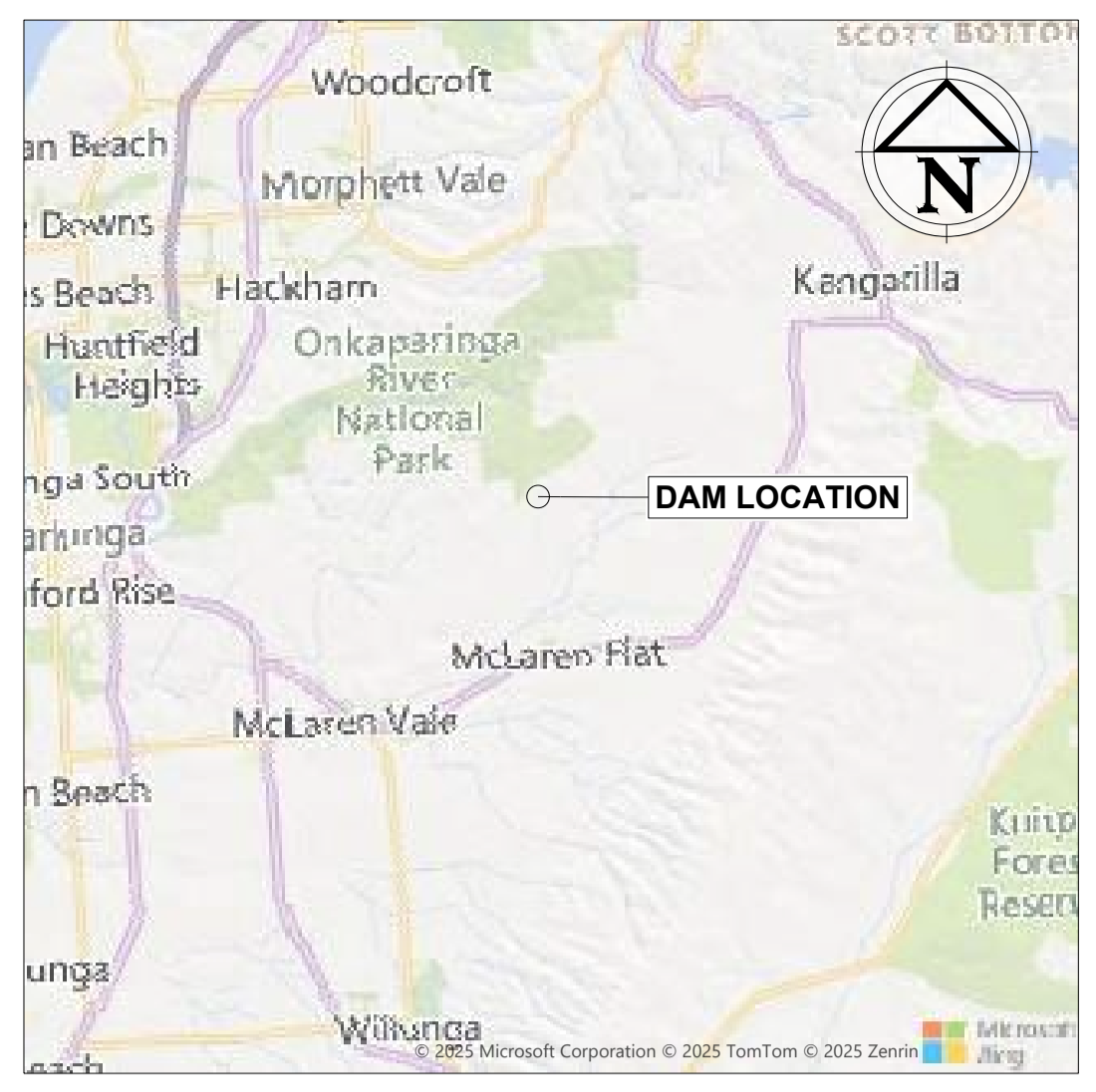
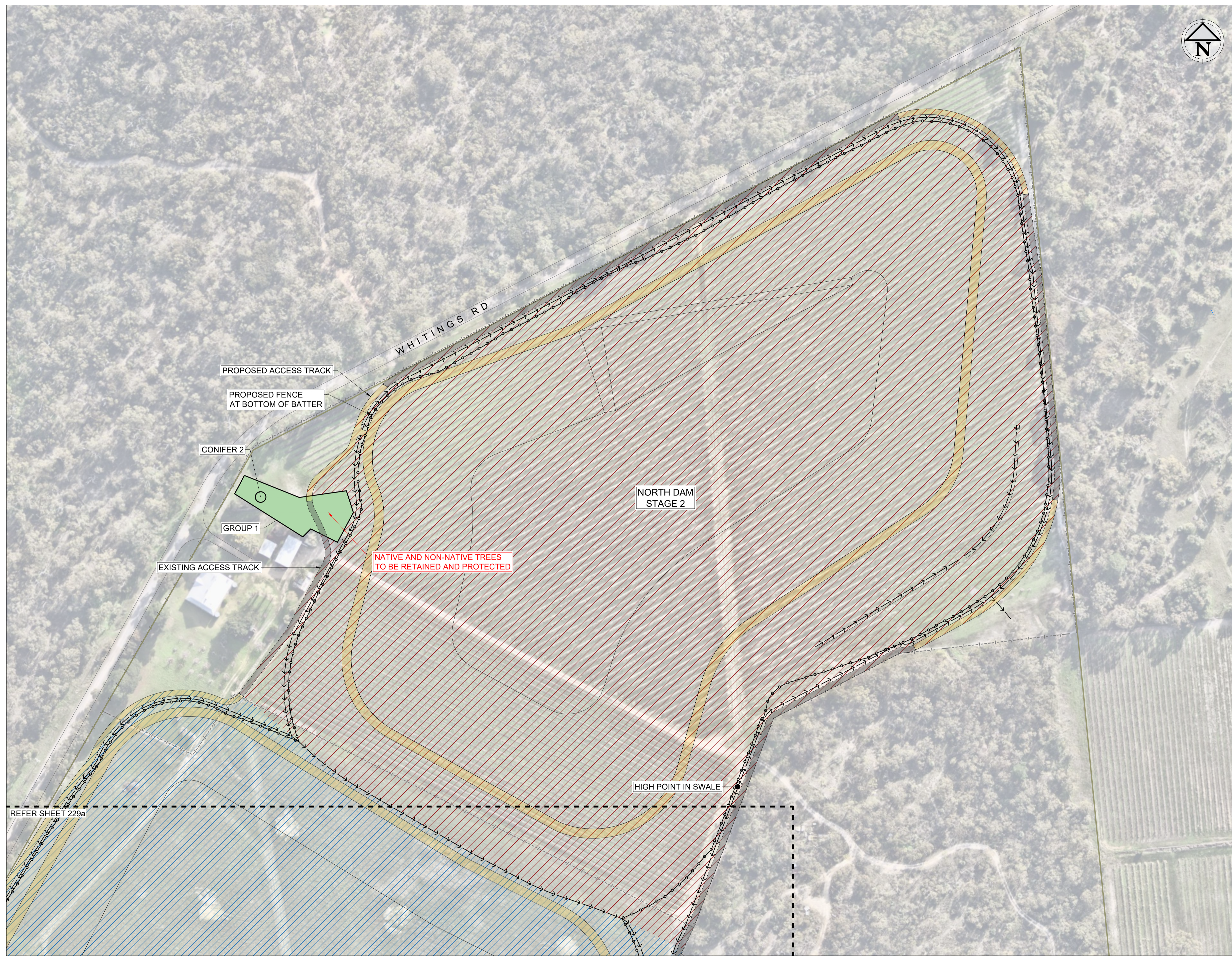
Drawing file: 17639-2024-17639-DAMS.dwg - Plotted at: 18/02/2024 1:33:16 PM

REV	DATE	DRAFT	DESCRIPTION
C	18/03/26	MG	FOR INFORMATION
B	10/02/26	JT	FOR INFORMATION
A	05/02/26	JT	FOR INFORMATION

STATUS: PRELIMINARY NOT FOR CONSTRUCTION	DRAFTER: J. TERZIC	SCALE: 1:1000	SHEET SIZE: A1
CHECKED: M. ALLEN	DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
APPROVED: M. ALLEN	DATE: 05/02/26	COORDINATE SYSTEM: MGA ZONE 54, GDA 94	
	DATE: 05/02/26	ALL LEVELS ARE TO AHD	
		REF MARK:	

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT: WILLUNGA BASIN WATER		
PROJECT: BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE: DETAILED PLAN NATIVE VEG MAP - SOUTH		
PROJECT REF: 17639	SHEET No.: 229a	REV: C



LOCATION PLAN
SCALE 1:150,000

LEGEND

- PROPERTY BOUNDARY
- EXISTING FENCE
- PROPOSED FENCE
- PROPOSED DAM DESIGN OUTLINES
- PROPOSED SWALE
- PROPOSED TRACK
- EXISTING TRACK
- VEGETATION AREA OUTLINE
- EX. SINGLE TREE AND REF No.
- EX. GROUP OF TREES AND REF No.

PROJECT STAGES

STAGE 1	
STAGE 2	

TREE REMOVAL LIST

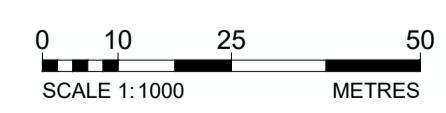
TREE No.	REMOVAL REQUIRED	TREE NAME
GROUP 1	P	-
CONIFER 2	P	-

NOTES:

R = TO BE REMOVED
 P = TO BE PRESERVED

REFER SHEET 229a

PLAN
SCALE 1:1000



NOTE:
THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.



Drawing file: 17639-229b-20250121-11VC-DAMS.dwg - Plotted at: 18/02/2025 1:38:03 PM

REV	DATE	DRAFT	DESCRIPTION
C	18/03/26	MG	FOR INFORMATION
B	10/02/26	JT	FOR INFORMATION
A	05/02/26	JT	FOR INFORMATION

STATUS: PRELIMINARY NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:1000	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	UNITS: ALL UNITS ARE IN METRES U.N.O.	
APPROVED: M. ALLEN		DATE: 05/02/26	COORDINATE SYSTEM: MGA ZONE 54, GDA 94	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 05/02/26	ALL LEVELS ARE TO AHD	
		REF MARK:		

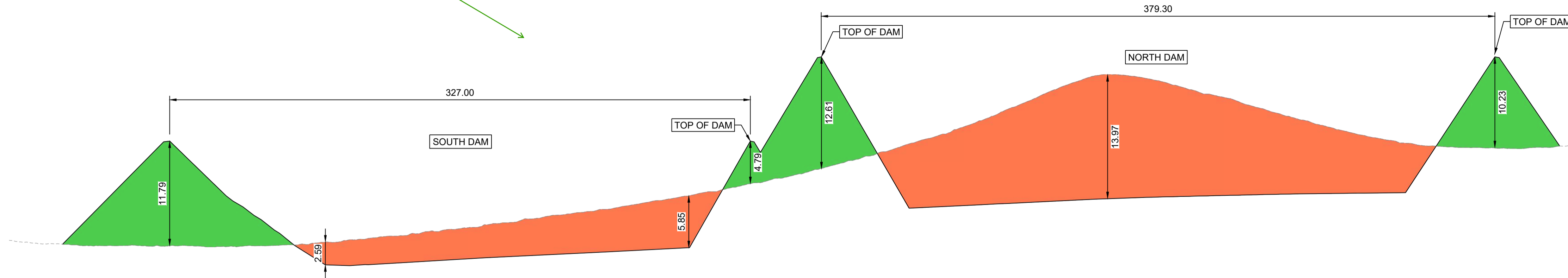
1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT: WILLUNGA BASIN WATER	PROJECT: BLEWITT SPRINGS STORAGE EXPANSION	
SHEET TITLE: DETAILED PLAN NATIVE VEG MAP - NORTH		
PROJECT REF: 17639	SHEET No.: 229b	REV: C

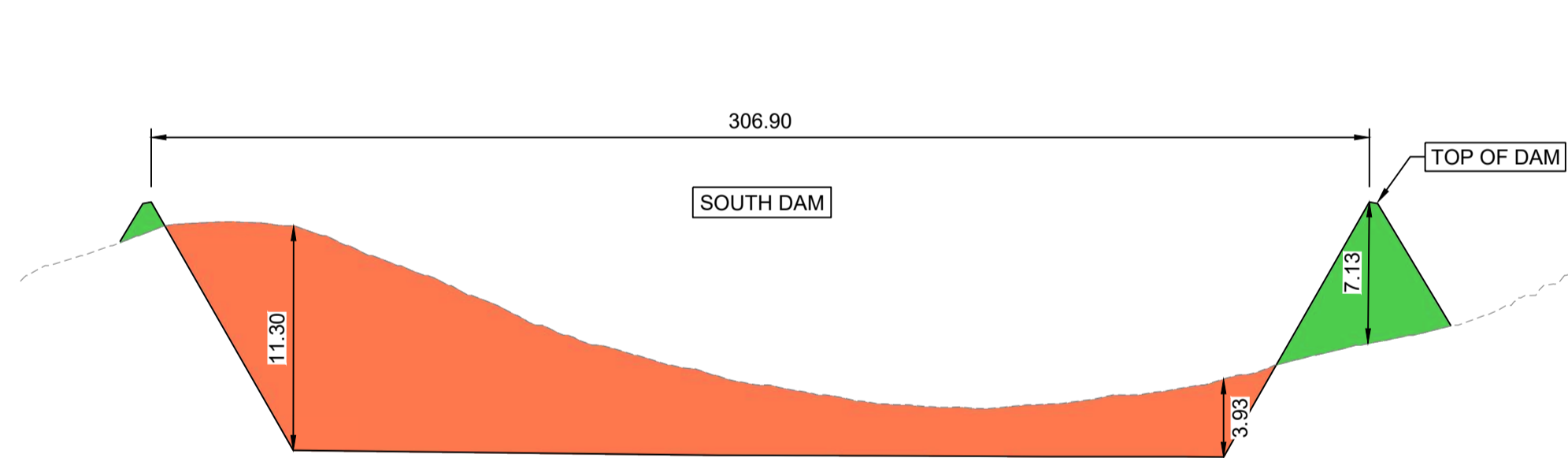
LEGEND	
---	NATURAL SURFACE *
—	BULK EARTHWORKS SURFACE
	CUT
	FILL

*NATURAL SURFACE AFTER TOPSOIL HAS BEEN STRIPPED (-300mm THICKNESS)

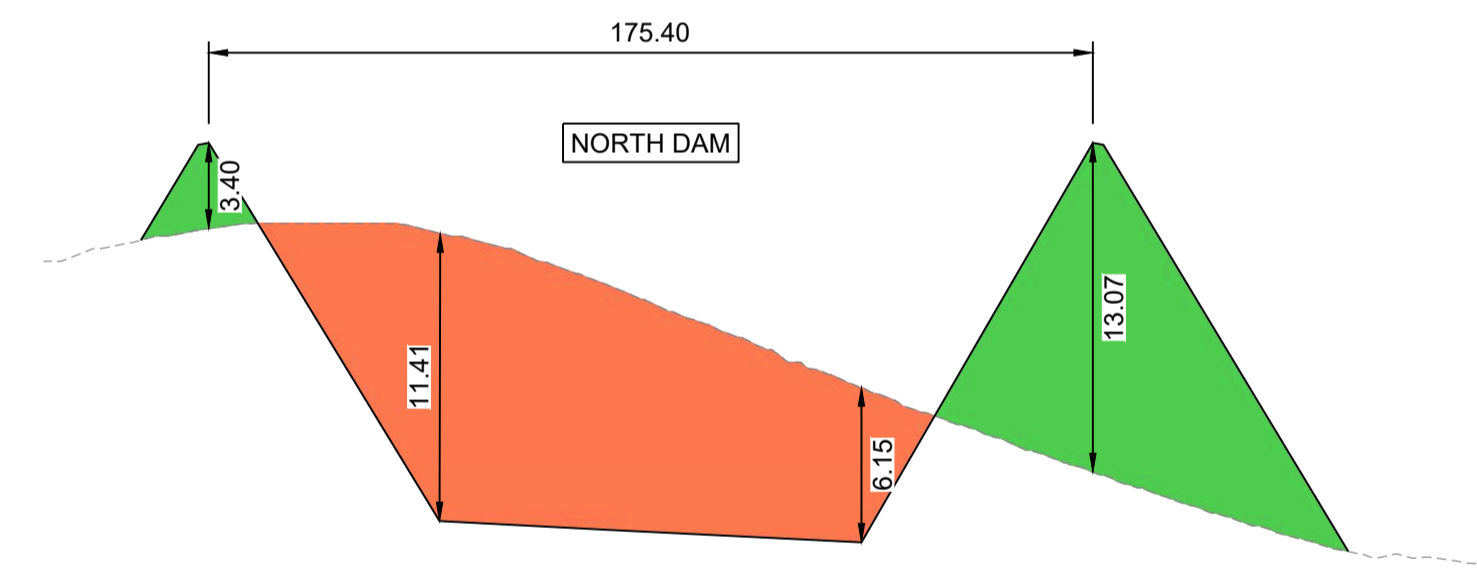
what sections of the dams are each of the sections taken through?



SECTION A
SCALE HOR 1:1500
SCALE VERT 1:300

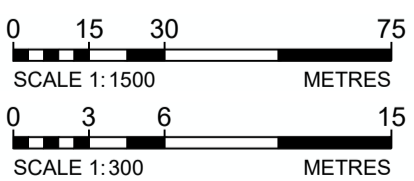


SECTION B
SCALE HOR 1:1500
SCALE VERT 1:300



SECTION C
SCALE HOR 1:1500
SCALE VERT 1:300

NOTE : THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.



Drawing file: 17639-202003-TVC-DAMS.dwg - Plotted at: 30/09/2025 1:34:51 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS:
TENDER ISSUE
NOT FOR CONSTRUCTION

COPYRIGHT:
This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission.
The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.

DRAFTER:
J. TERZIC

DESIGNER:
J. TERZIC

CHECKED:
M. ALLEN

APPROVED:
M. ALLEN

SCALE:
1:1500(H) 1:300(V)

SHEET SIZE:
A1

UNITS:
ALL UNITS ARE IN METRES U.N.O.

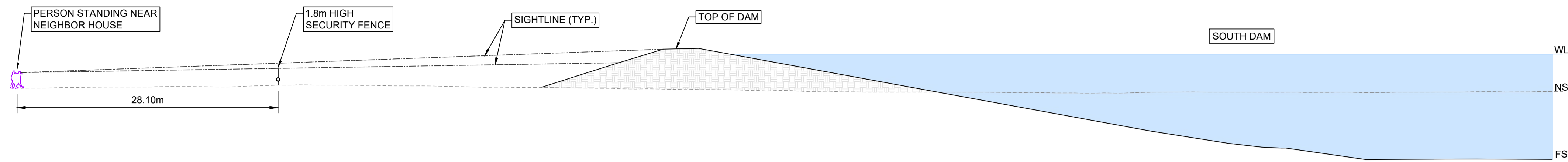
COORDINATE SYSTEM:
MGA ZONE 54, GDA 94
ALL LEVELS ARE TO AHD

REF MARK:

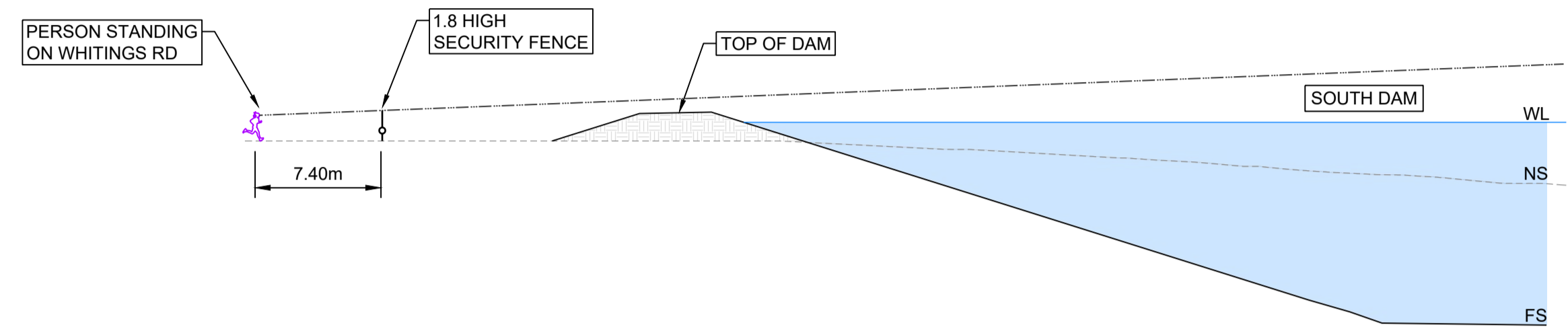


1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

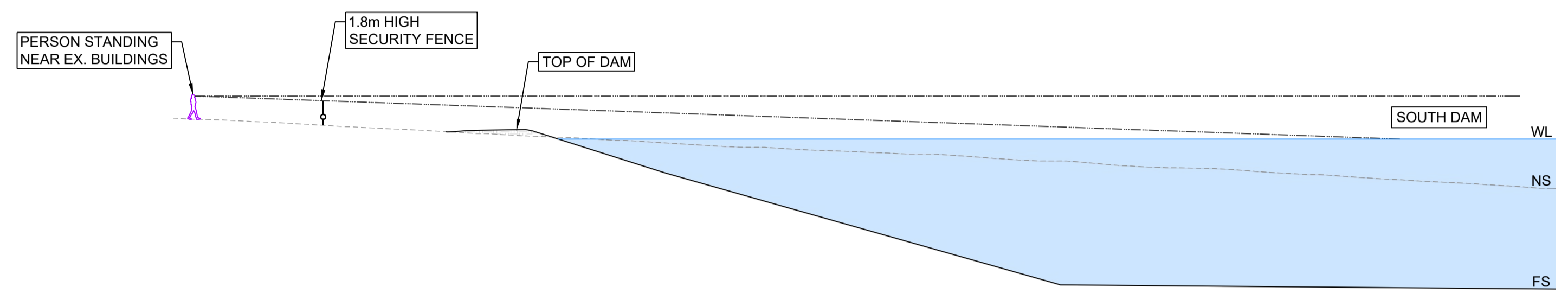
CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	SECTIONS BULK EARTHWORKS - SECTIONS A, B & C		
PROJECT REF:	17639	SHEET No.:	231
REV:			D



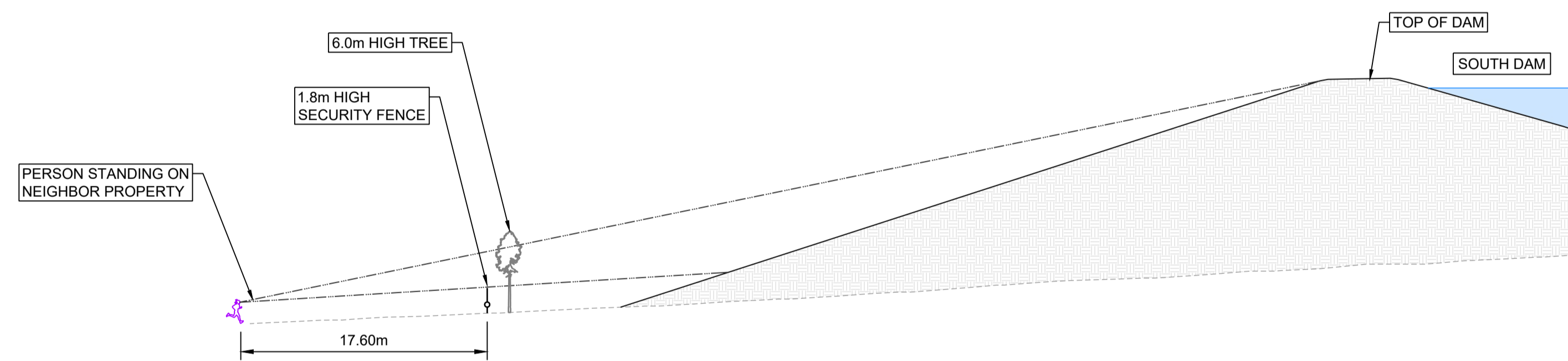
SECTION **D**
SCALE HOR 1:300
SCALE VERT 1:300



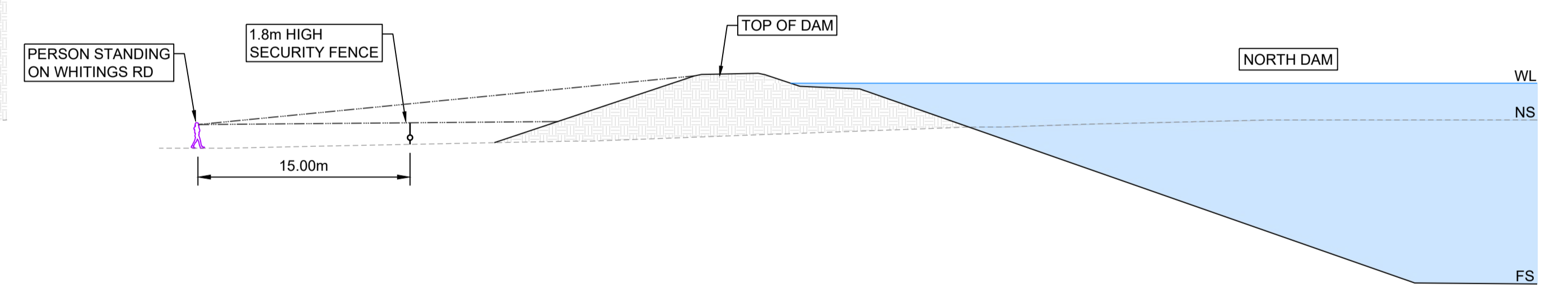
SECTION **E**
SCALE HOR 1:300
SCALE VERT 1:300



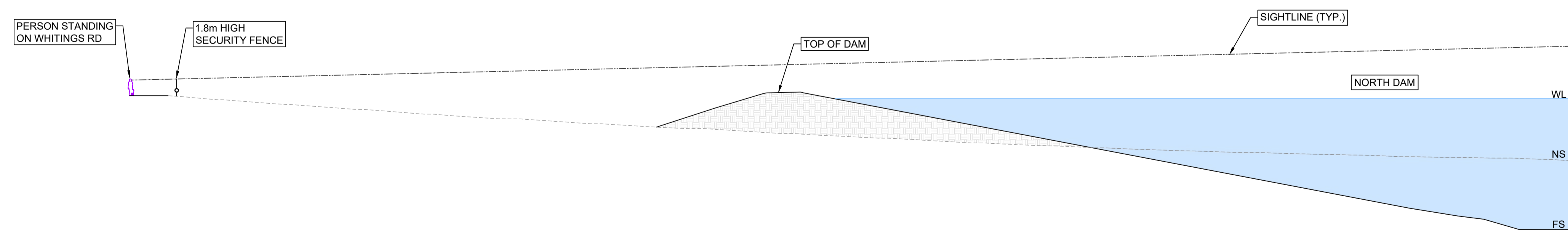
SECTION **F**
SCALE HOR 1:300
SCALE VERT 1:300



SECTION **G**
SCALE HOR 1:300
SCALE VERT 1:300

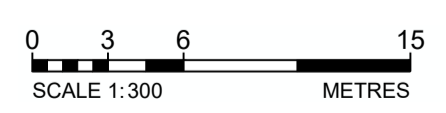


SECTION **H**
SCALE HOR 1:300
SCALE VERT 1:300



SECTION **I**
SCALE HOR 1:300
SCALE VERT 1:300

NOTES
1700mm VISION HEIGHT



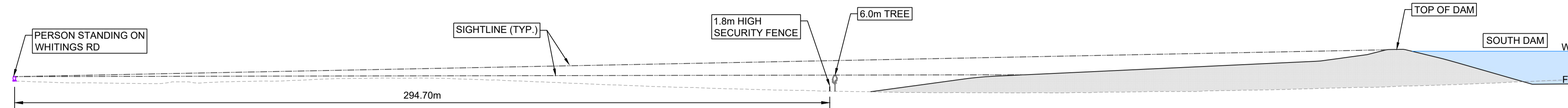
Drawing file: 17639-2020-D:\VCD DAMS.dwg - Plotted at: 20/09/2025 1:35:00 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

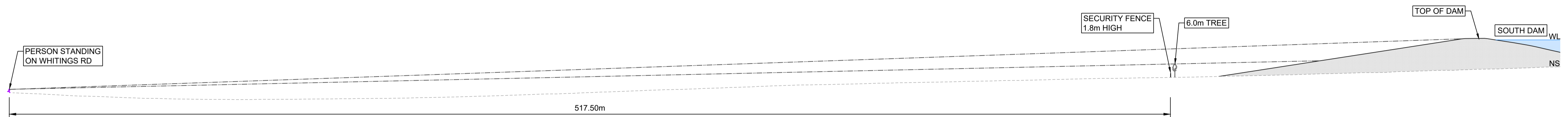
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:300	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 30/09/25	REF MARK:	

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	SECTIONS SIGHTLINE ANALYSIS - SECTIONS D, E, F, G, H, & I		
PROJECT REF:	17639	SHEET No.:	232
REV:			D



SECTION J
SCALE HOR 1:1000
SCALE VERT 1:1000



SECTION K
SCALE HOR 1:1000
SCALE VERT 1:1000

NOTES
1700mm VISION HEIGHT



Drawing file: 17639-2020-01-11-10-DAMS.dwg - Plotted at: 20/09/2025 1:05:08 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS:
TENDER ISSUE
NOT FOR CONSTRUCTION

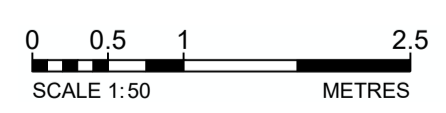
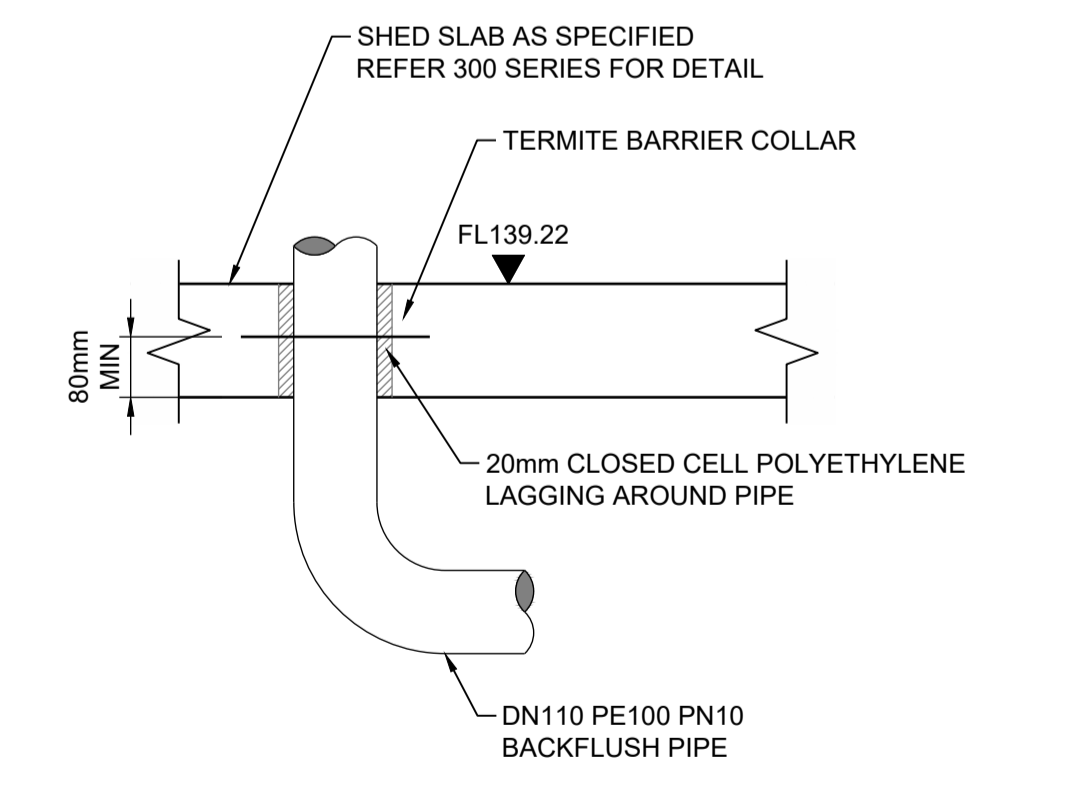
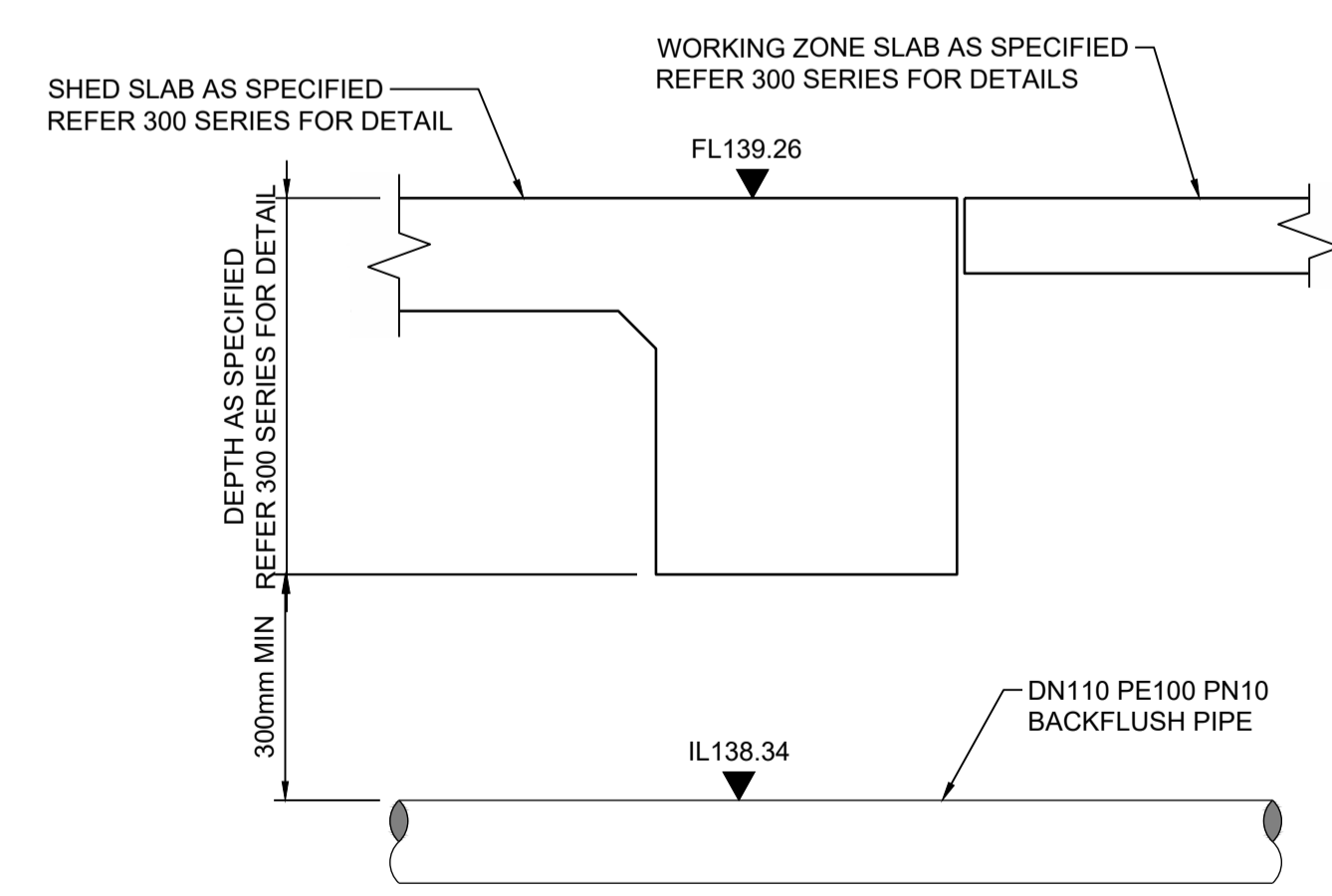
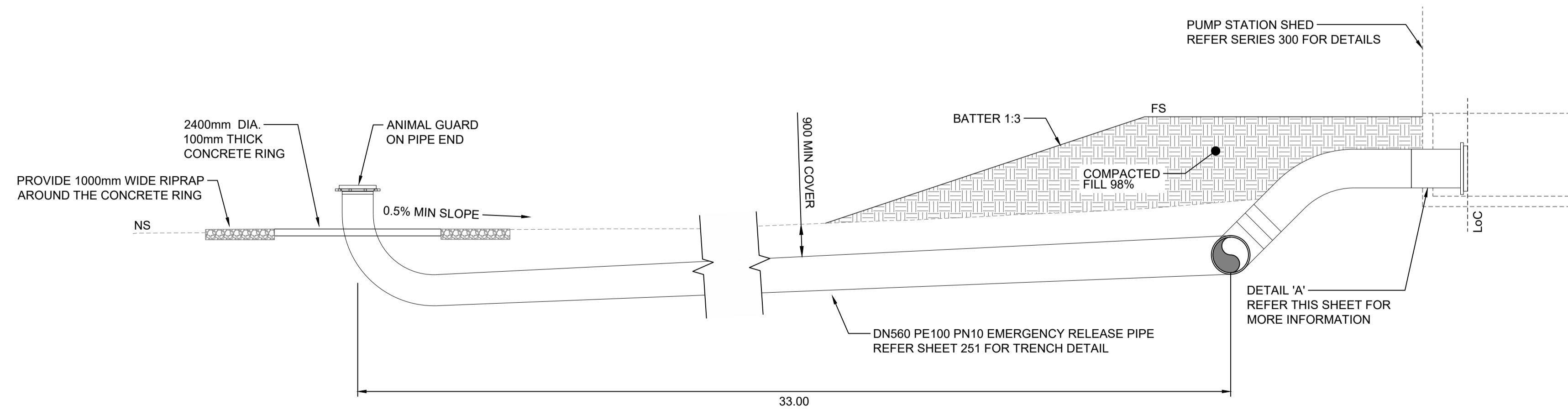
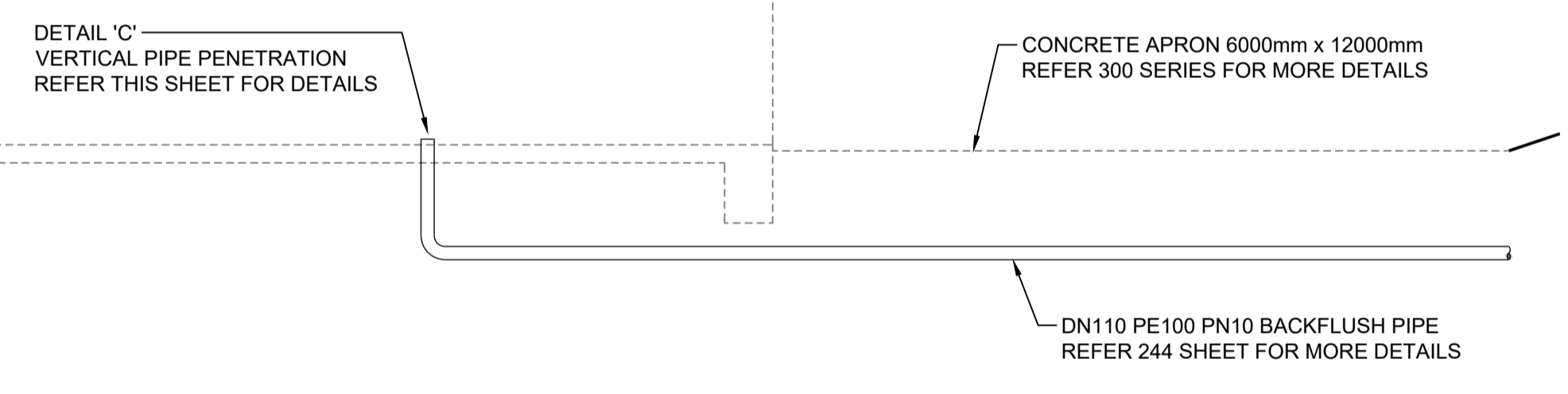
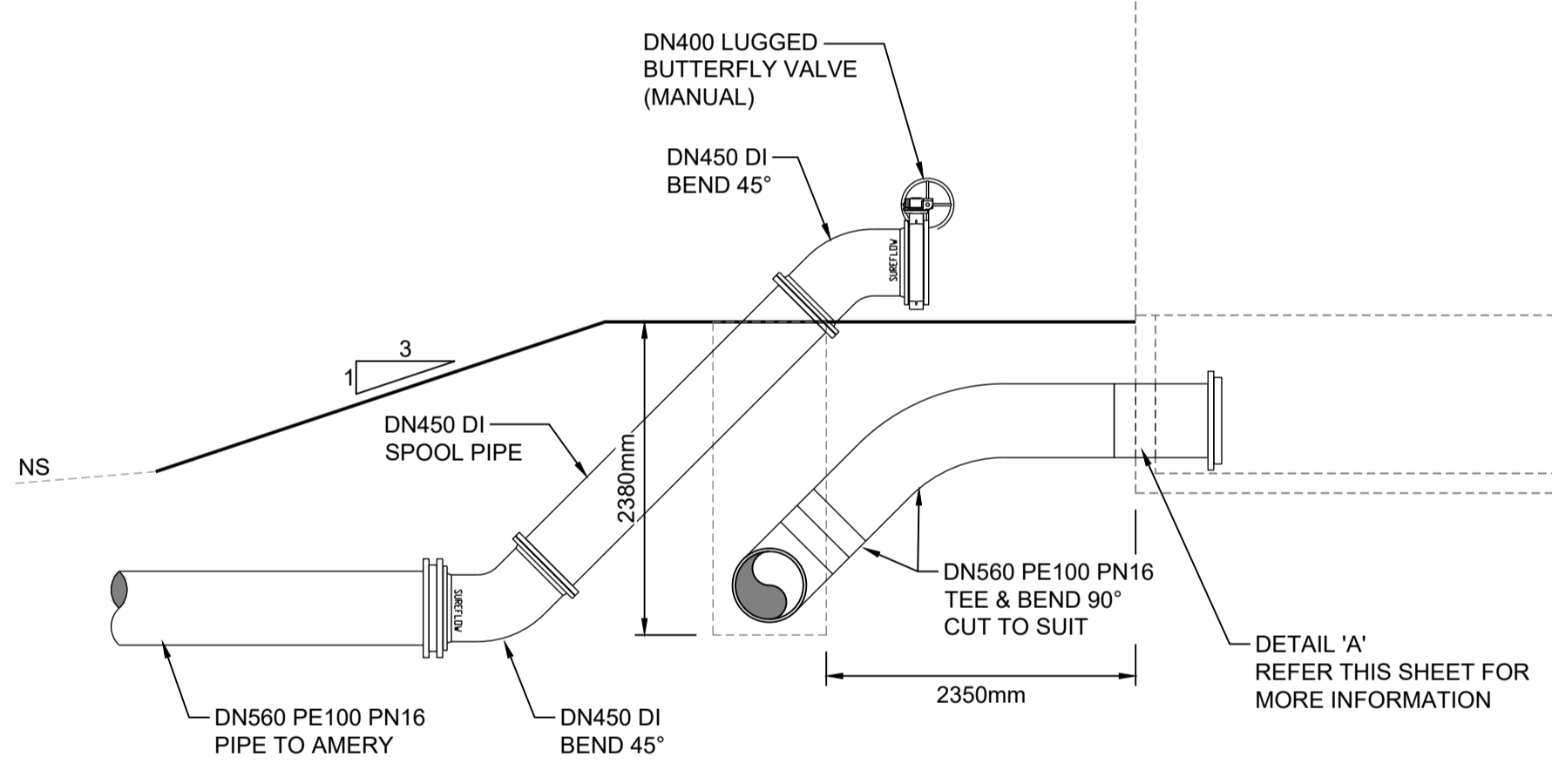
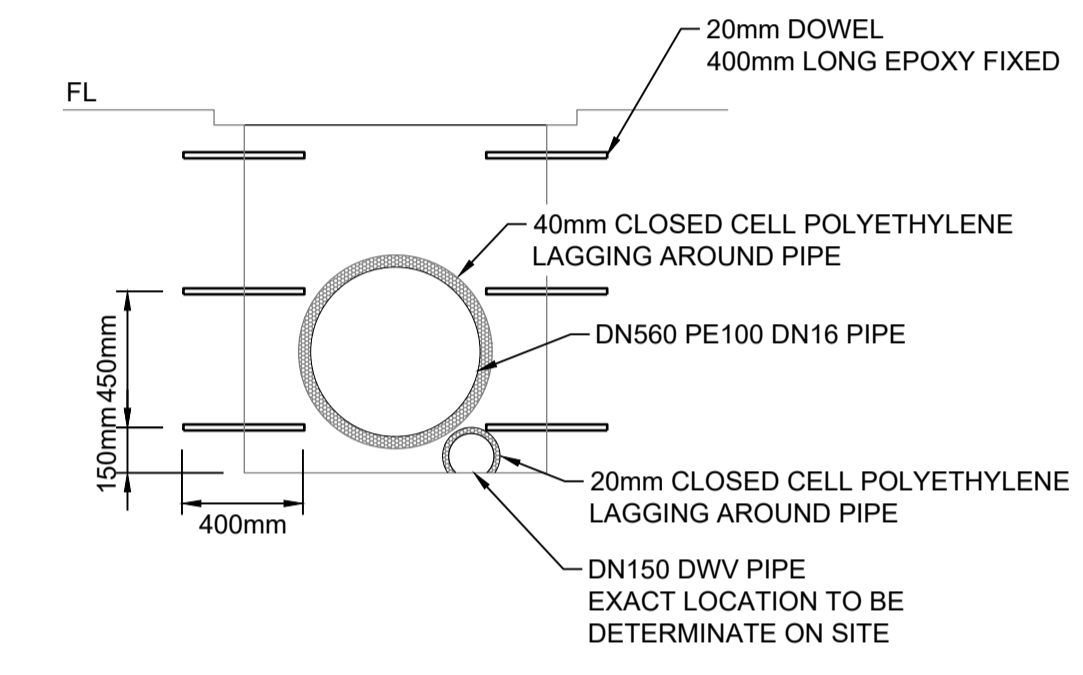
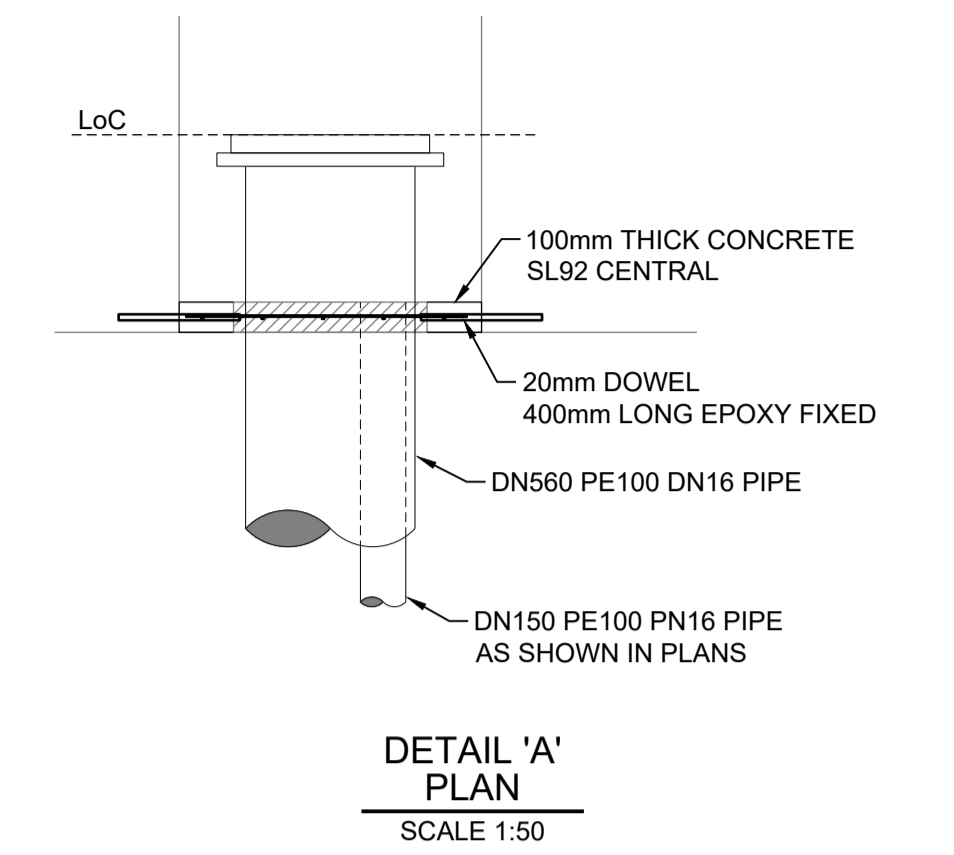
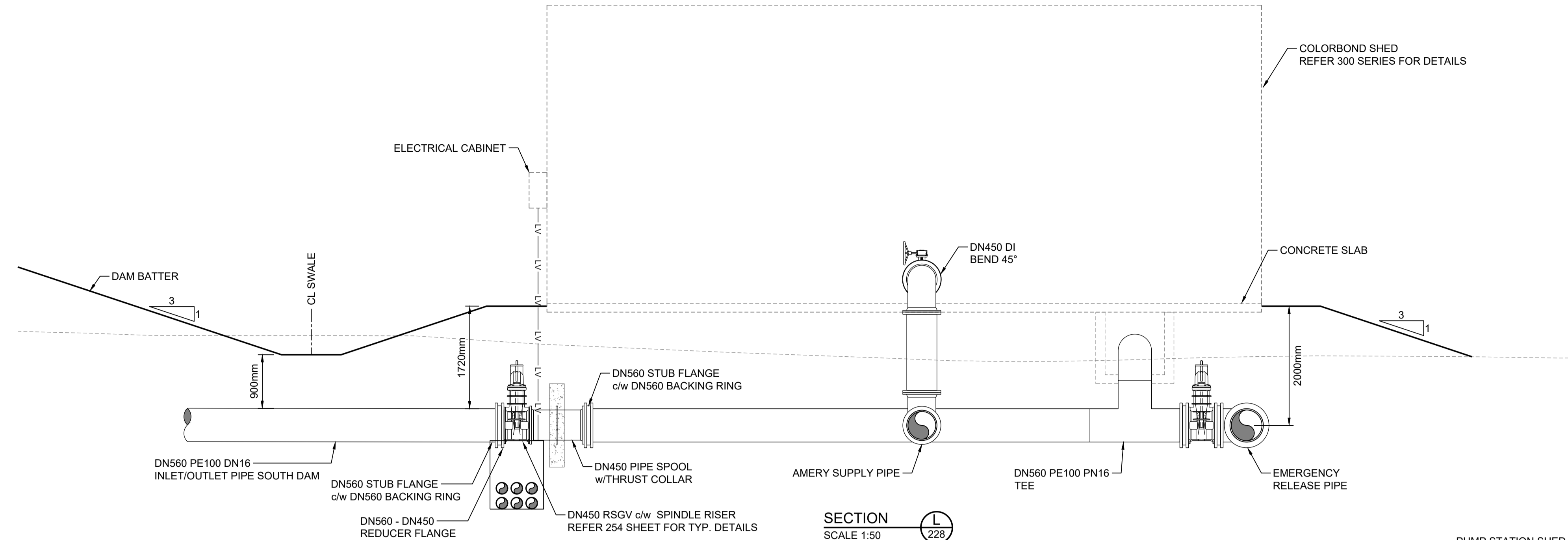
COPYRIGHT:
This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission.
The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.

DRAFTER: J. TERZIC	SCALE: 1:1000	SHEET SIZE: A1
DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
CHECKED: M. ALLEN	DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94
APPROVED: M. ALLEN	DATE: 30/09/25	ALL LEVELS ARE TO AHD
		REF MARK:



1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT: WILLUNGA BASIN WATER	PROJECT: BLEWITT SPRINGS STORAGE EXPANSION	
SHEET TITLE: SECTIONS SIGHTLINE ANALYSIS - SECTIONS J & K		
PROJECT REF: 17639	SHEET No.: 233	REV: D



Drawing file: 17639-2020-01-11-10-DRAWING.dwg - Plotted at: 20/09/2025 1:35:42 PM

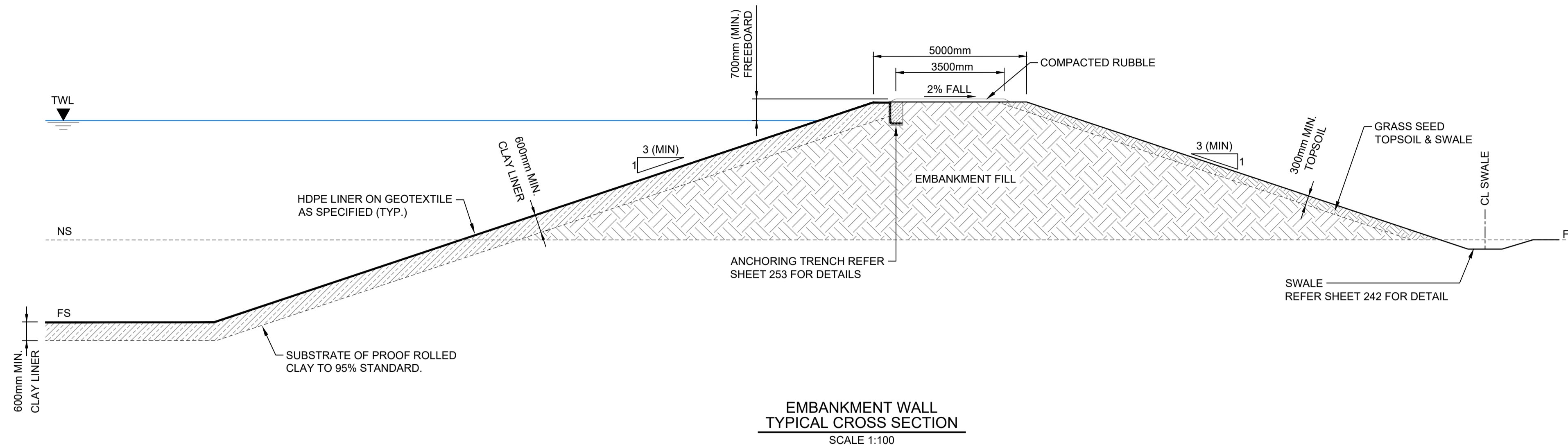
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:50	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission.		REF MARK:		

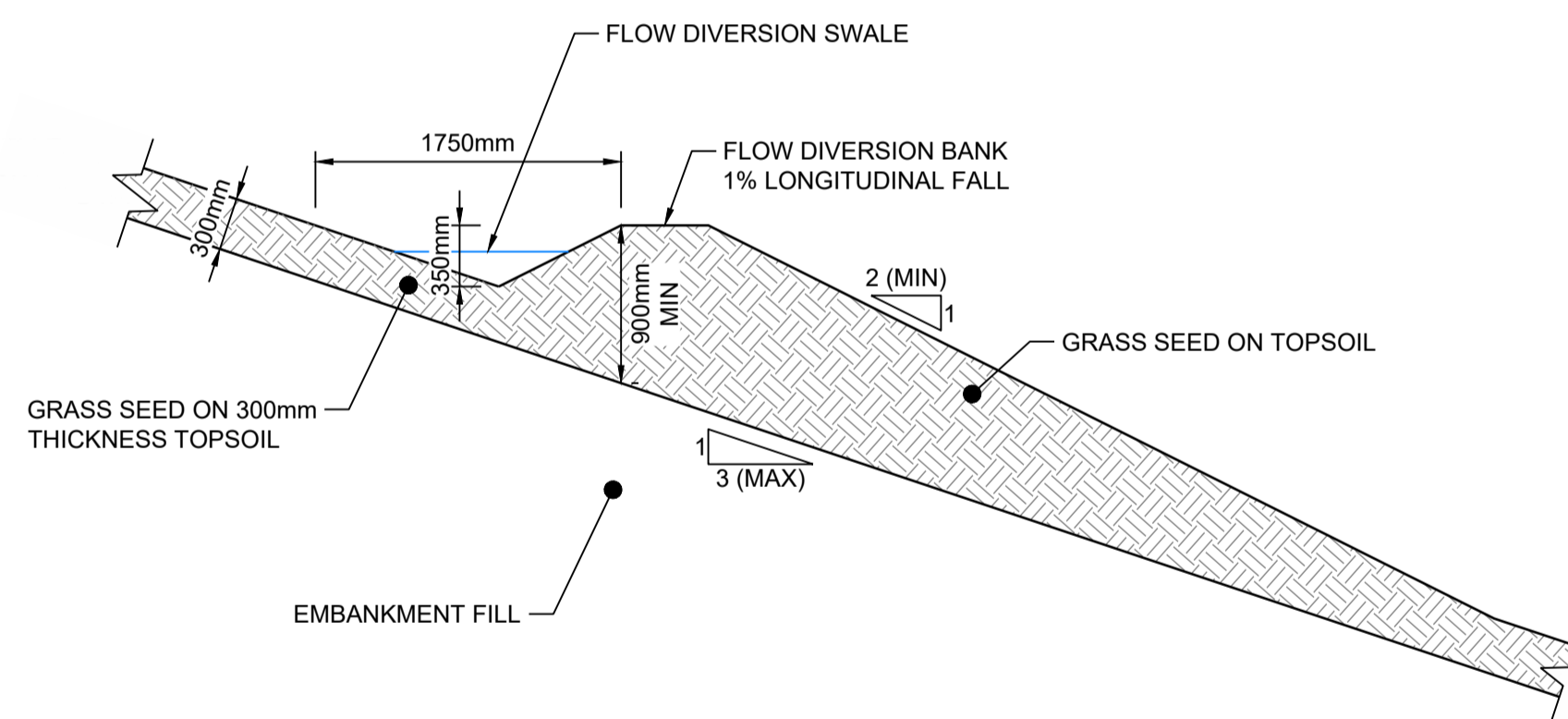

pinion
 ADVISORY

1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	SECTIONS MECHANICAL - SECTIONS L, M & N & DETAIL 'A', 'B' & 'C'		
PROJECT REF:	17639	SHEET No.:	234
REV:			D



EMBAKMENT WALL
TYPICAL CROSS SECTION
SCALE 1:100



FLOW DIVERSION BANK
TYPICAL CROSS SECTION
SCALE 1:40

Drawing file: 17639-2020-01-TVC-DRAW.dwg - Plotted at: 20/09/2025 1:35:57 PM

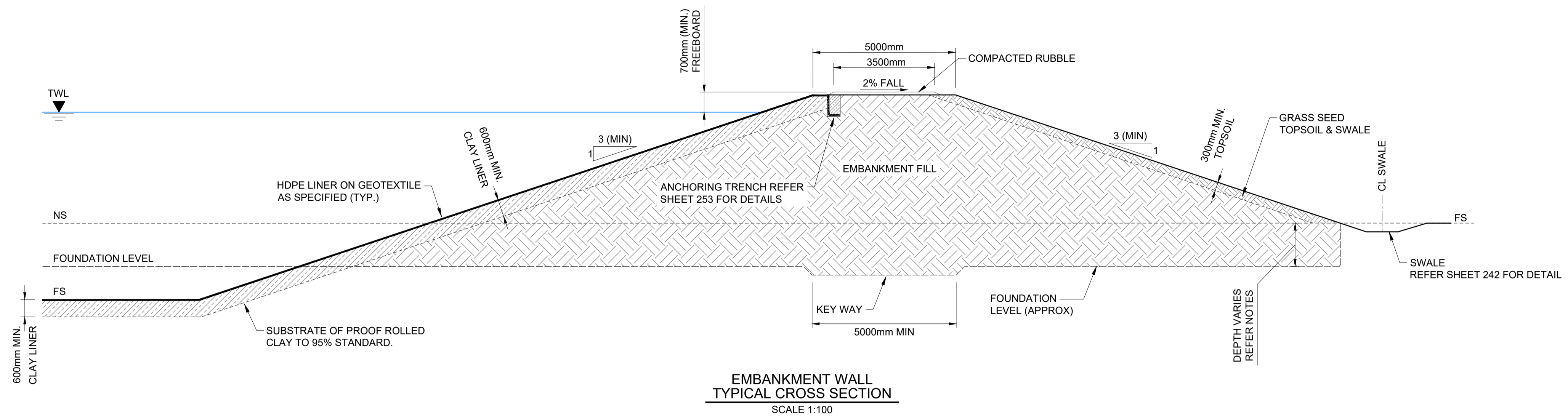
NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 30/09/25	REF MARK:	

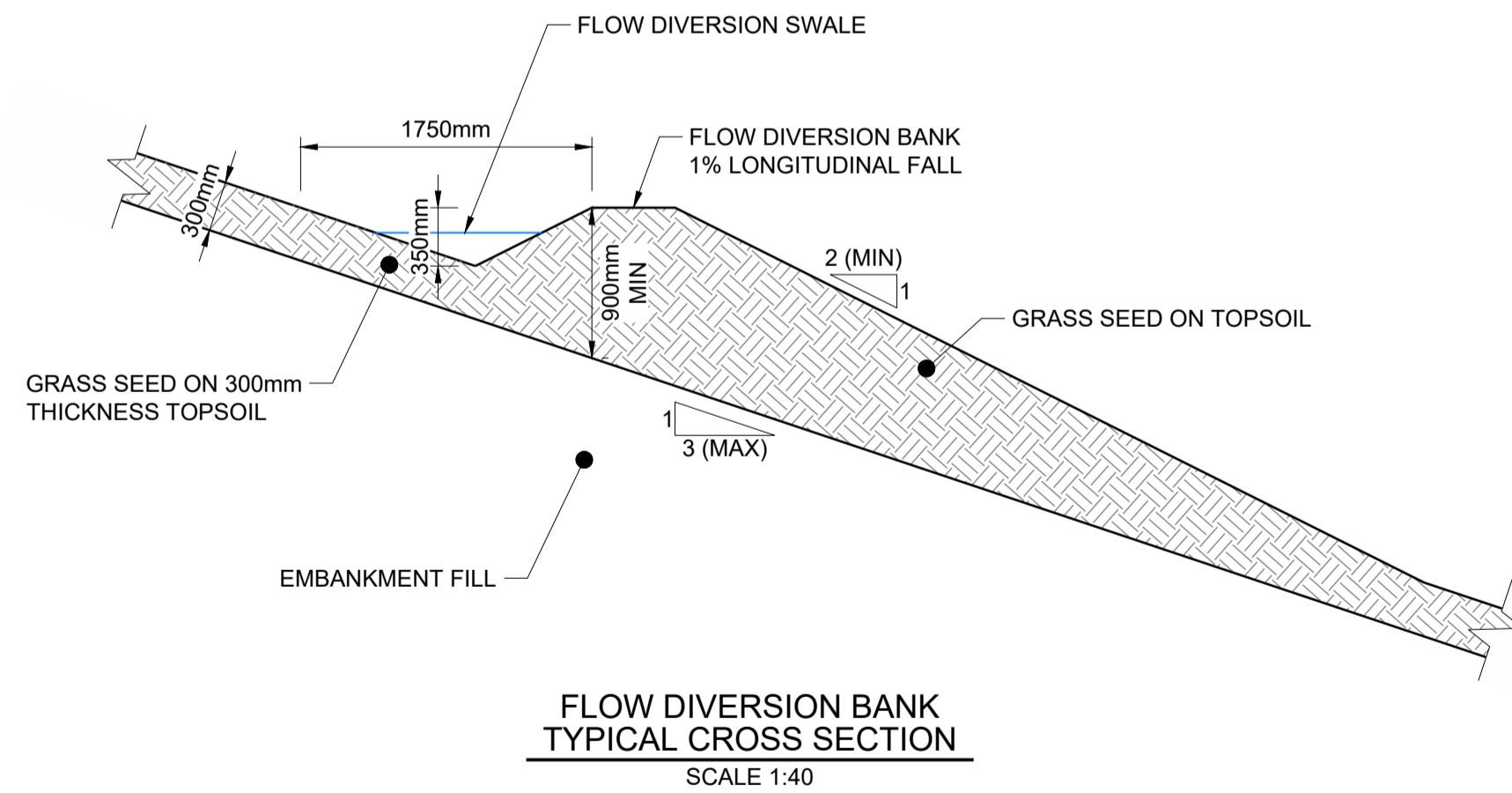

 1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	TYPICAL SECTIONS TYPICAL WALL CROSS SECTIONS		
PROJECT REF:	17639	SHEET No.:	241
REV:			D



EMBAKMENT WALL
TYPICAL CROSS SECTION
SCALE 1:100

NOTE:
FOUNDATION: EXCAVATE THRU LOOSE SURFACE SANDS AND FOUND ON MEDIUM DENSE CLAYEY SAND OR STIFF SANDY CLAY (OR BETTER), DEPTH VARIES 0.5m TO 1.5m, CONFIRM DURING CONSTRUCTION. TRIM AND ADJUST MOISTURE CONTENT AS REQUIRED.
PROVIDE KEY WAY INTO MEDIUM DENSE CLAYED SAND OR STIFF SANDY CLAY (OR BETTER) FOUNDATION MATERIAL MINIMUM BASE 5.0m BATTERED OR STEPPED SLOPES NO STEPPER THAN 1V:1H. MINIMUM DEPTH INTO FOUNDING MATERIAL 300mm.



FLOW DIVERSION BANK
TYPICAL CROSS SECTION
SCALE 1:40

Drawing file: 17639-2020(01)TVC.DWG - Ploblet at 15/12/2025 2:27:35 PM

NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

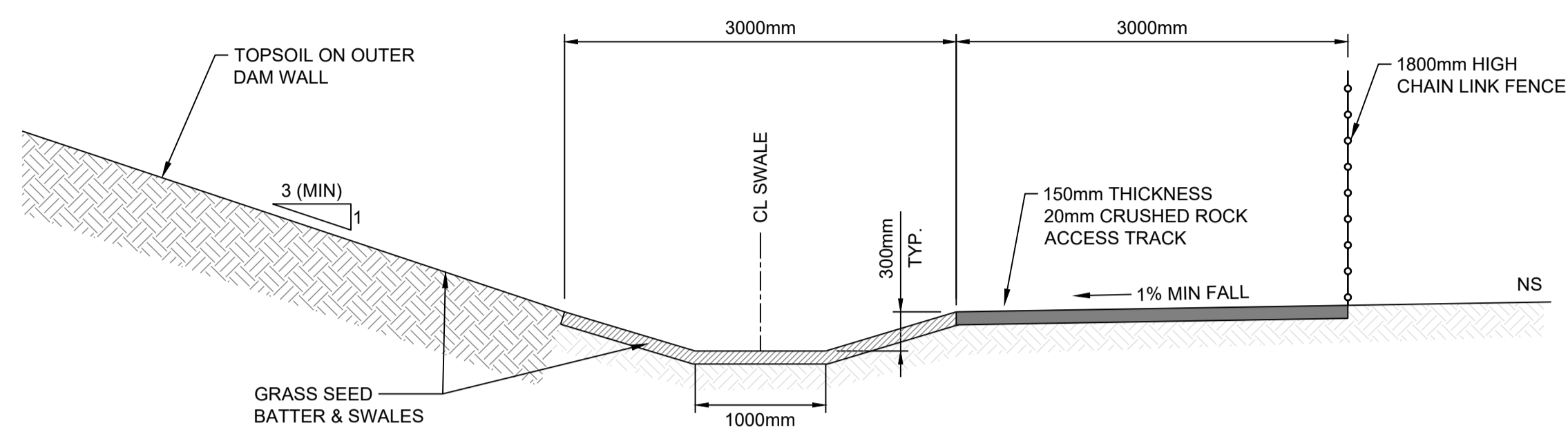
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
E	15/12/25	MG	FOR TENDER				
D	02/10/25	MG	FOR TENDER				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 15/12/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 15/12/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 15/12/25	REF MARK:	

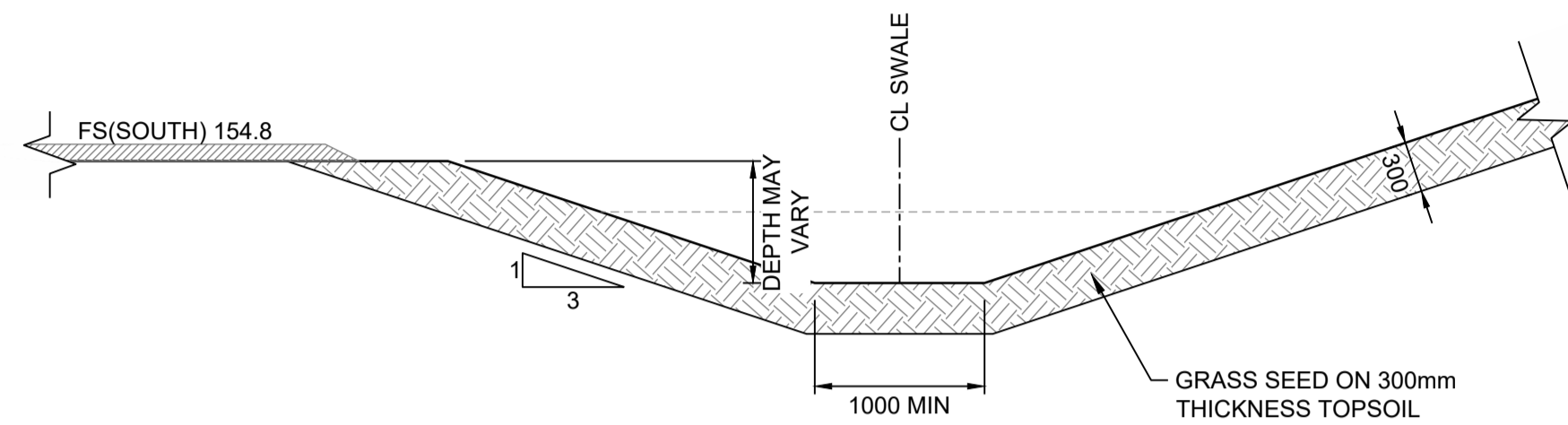


 1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

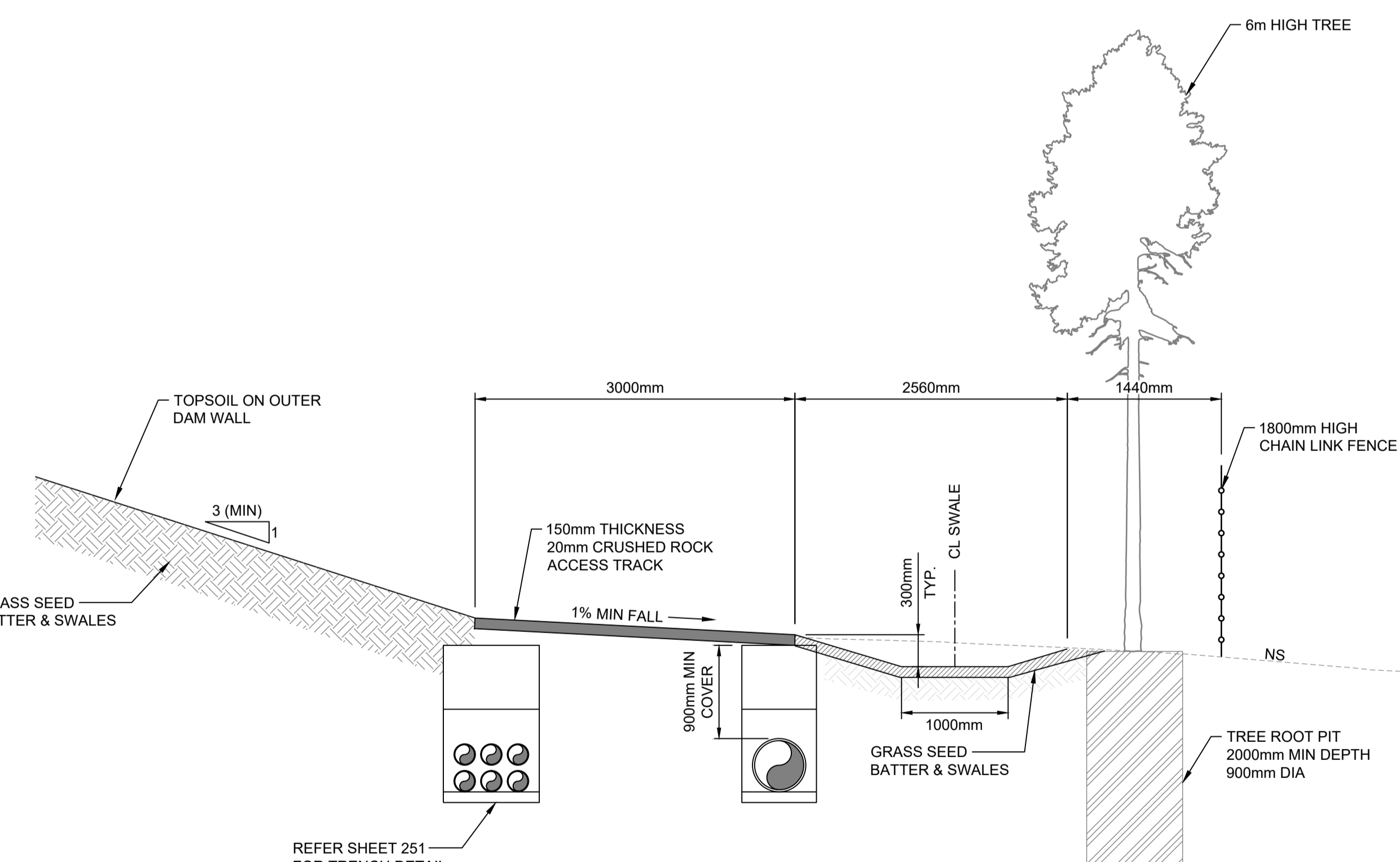
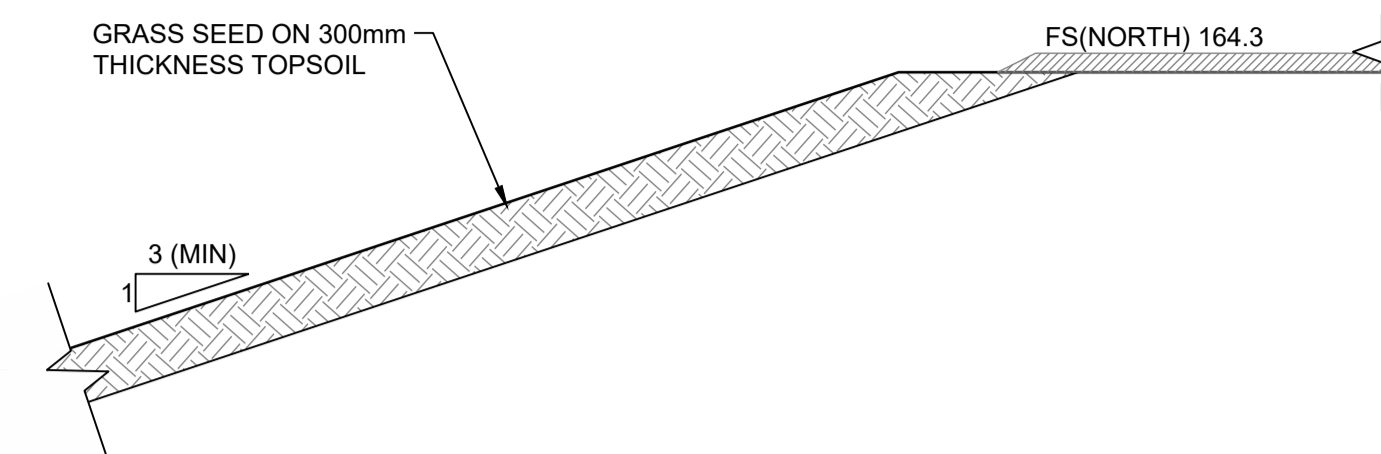
CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	TYPICAL SECTIONS TYPICAL WALL CROSS SECTIONS		
PROJECT REF:	17639	SHEET No.:	241
REV:			E



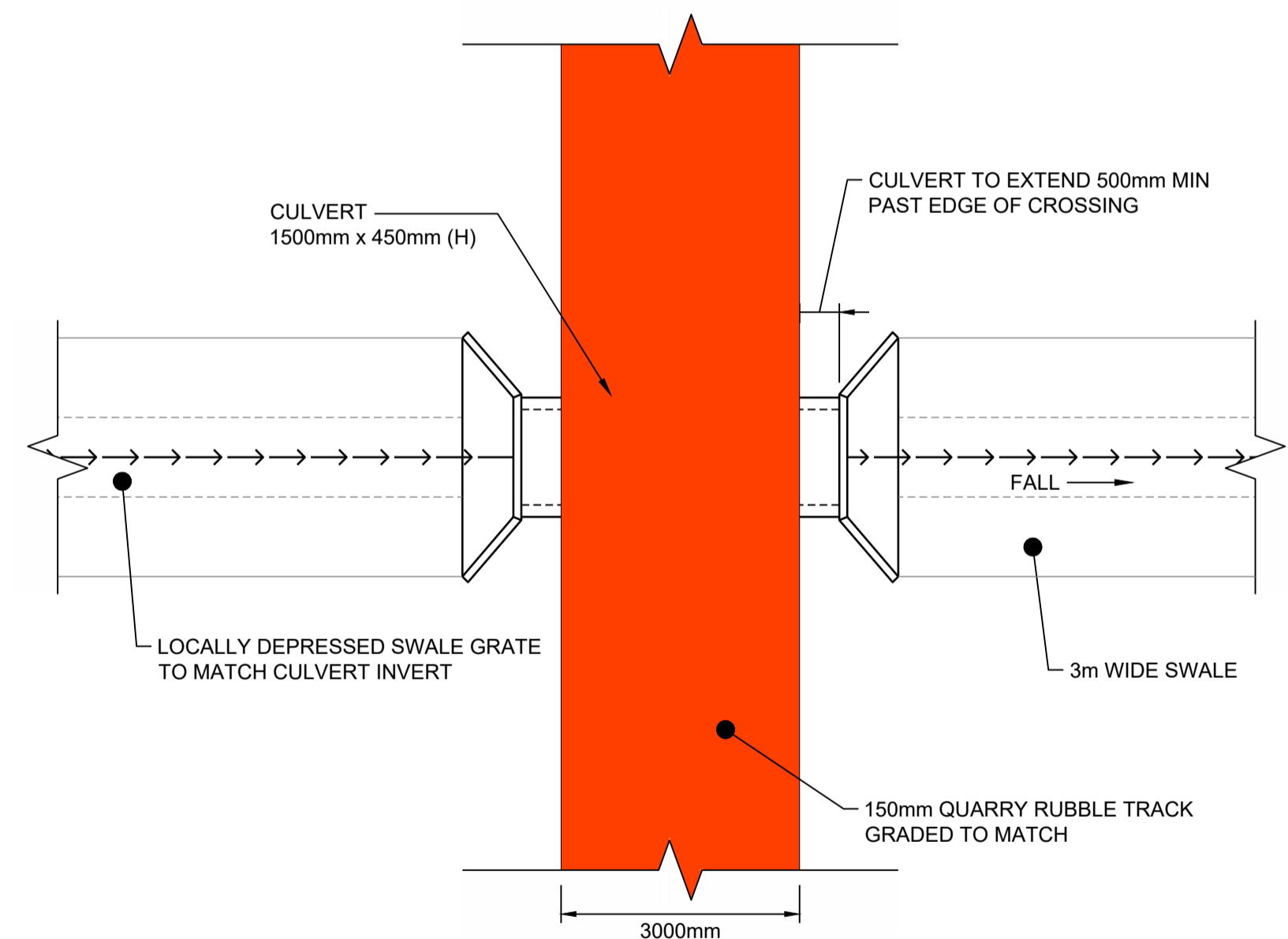
TRACK & SWALE
TYPICAL CROSS SECTION
SCALE 1:40



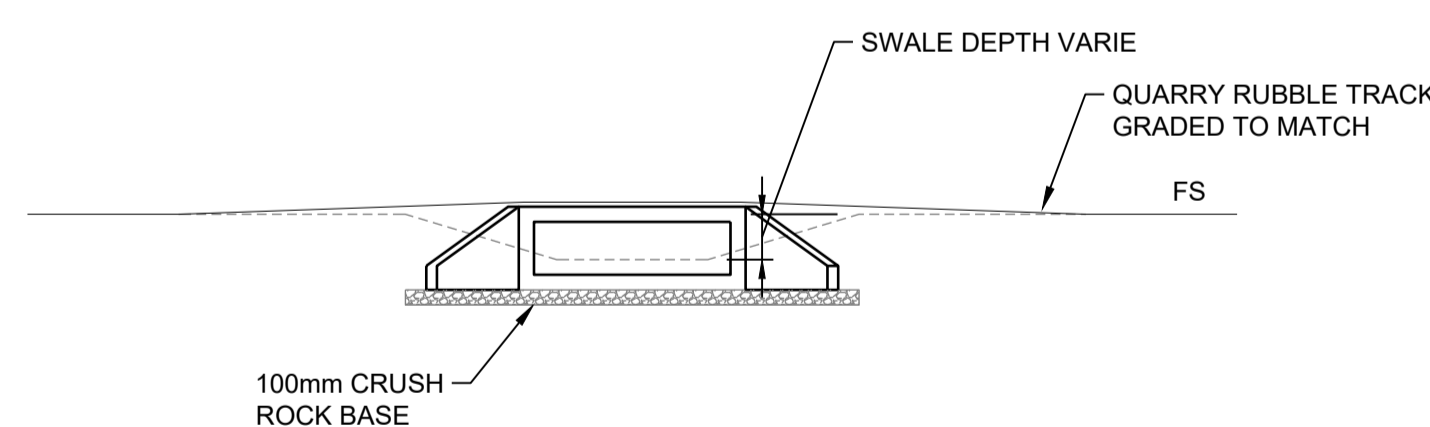
SWALE BETWEEN DAMS
TYPICAL CROSS SECTION
SCALE 1:50



TRACK & SWALE
TYPICAL CROSS SECTION
SCALE 1:40



SWALE CULVERT
TYPICAL PLAN DETAIL
SCALE 1:75



SWALE CULVERT
TYPICAL SECTION DETAIL
SCALE 1:75

Drawing file: 17639-202001-TVC-DAMS.dwg - Plotted at: 20/09/2025 1:08:29 PM

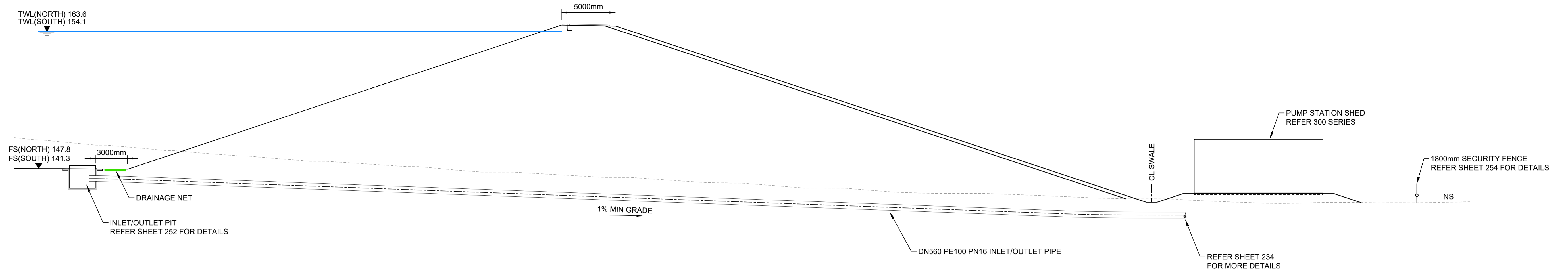
NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

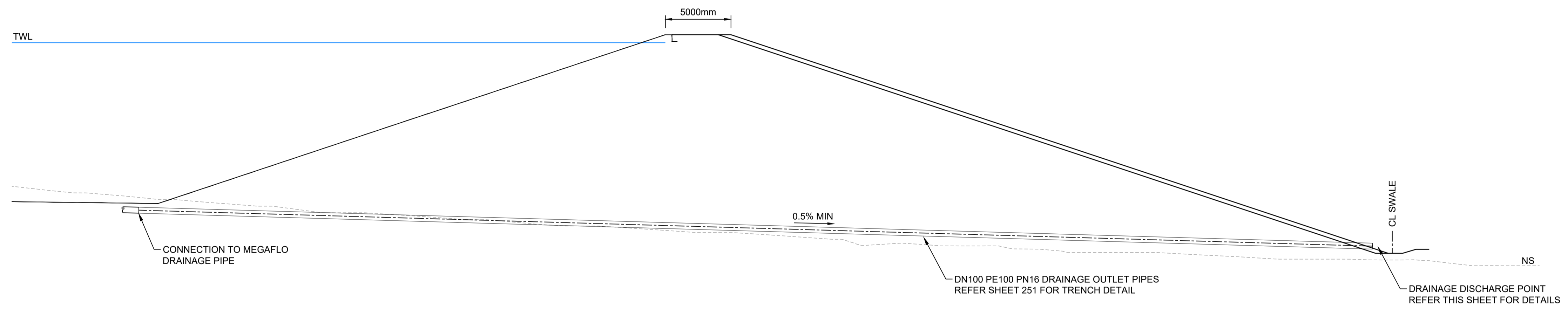
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	REF MARK:

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

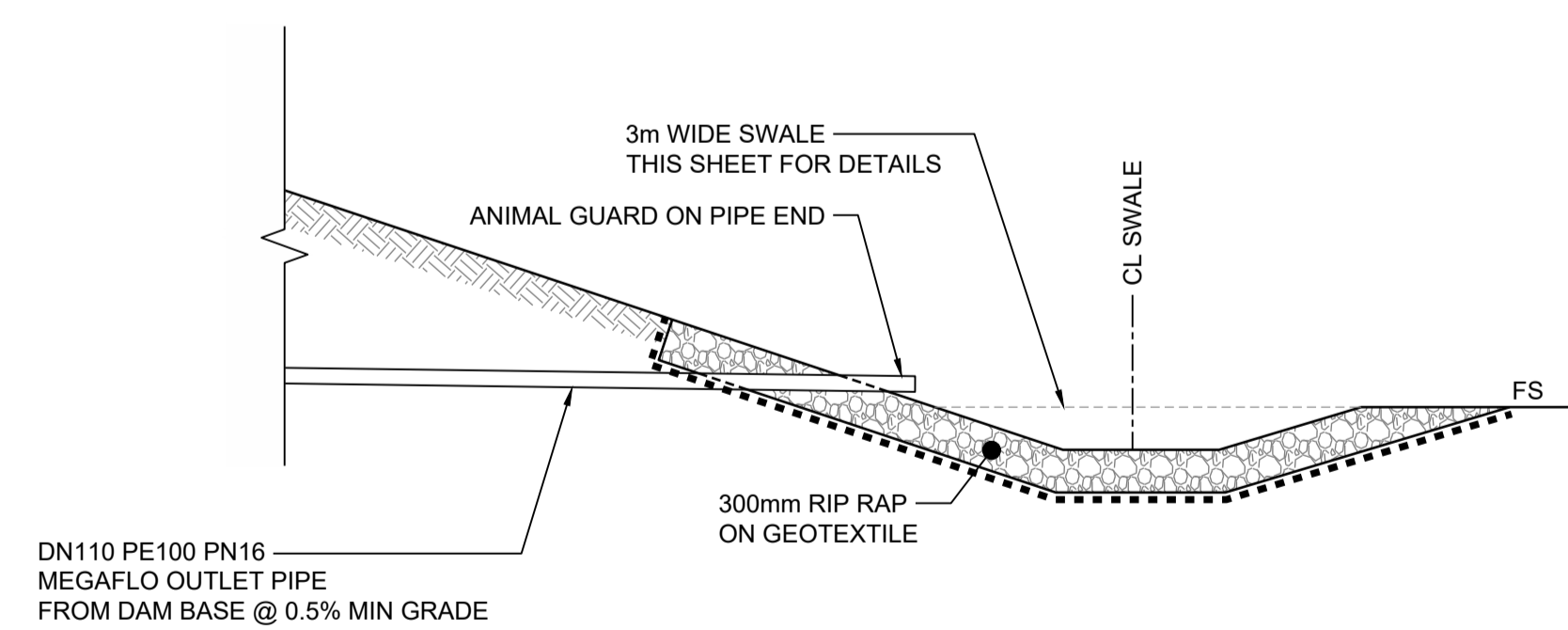
CLIENT: WILLUNGA BASIN WATER	PROJECT: BLEWITT SPRINGS STORAGE EXPANSION	
SHEET TITLE: TYPICAL SECTIONS TYPICAL TRACK & SWALE SECTIONS		
PROJECT REF: 17639	SHEET No.: 242	REV: D



INLET/OUTLET PIPE
TYPICAL LONG SECTION
SCALE 1:200



DRAINAGE OUTLET PIPE
TYPICAL LONG SECTION
SCALE 1:200



DRAINAGE DISCHARGE POINT
TYPICAL DETAIL
SCALE 1:50

NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

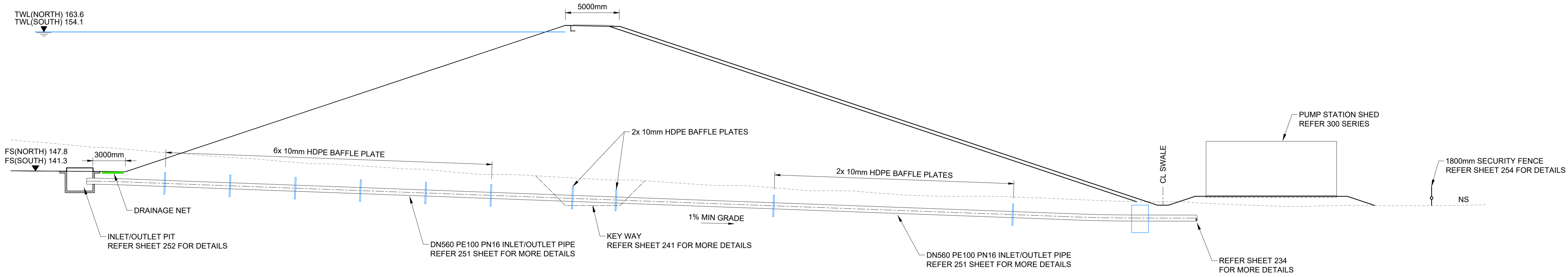
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS:	TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER:	J. TERZIC	SCALE:	AS SHOWN	SHEET SIZE:	A1
			DESIGNER:	J. TERZIC	UNITS:	ALL UNITS ARE IN METRES U.N.O.		
COPYRIGHT:	This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission.		CHECKED:	M. ALLEN	DATE:	30/09/25	COORDINATE SYSTEM:	MGA ZONE 54, GDA 94
			APPROVED:	M. ALLEN	DATE:	30/09/25	ALL LEVELS ARE TO AHD	
					REF MARK:			

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

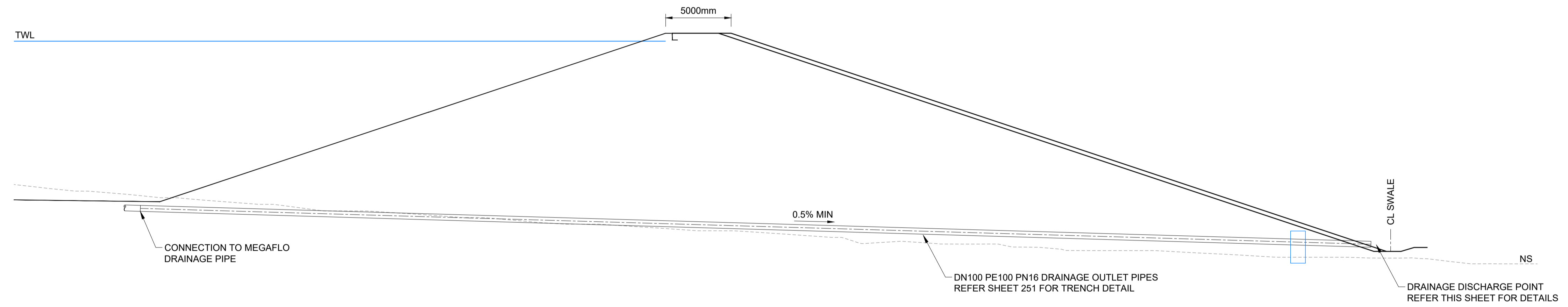
CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	TYPICAL SECTIONS TYPICAL PIPE THROUGH WALL		
PROJECT REF:	17639	SHEET No.:	243
REV:			D

Drawing file: 17639-202509-TVC-DAMS.dwg - Plotted at: 20/09/2025 3:08:48 PM

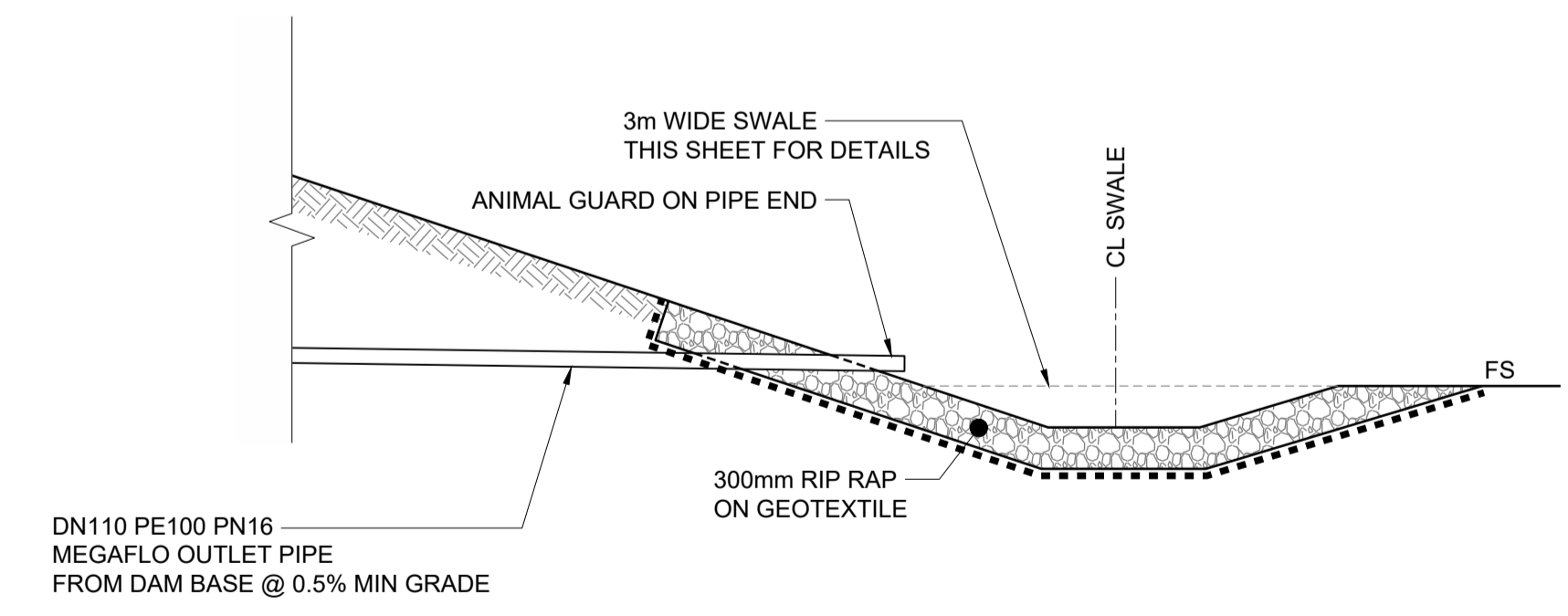


INLET/OUTLET PIPE
TYPICAL LONG SECTION
SCALE 1:200

NOTE:
PROVIDE BENTONITE AROUND THE PIPE AND
BAFFLES TO SEAL AGAINST SEEPAGE FLOWS



DRAINAGE OUTLET PIPE
TYPICAL LONG SECTION
SCALE 1:200



DRAINAGE DISCHARGE POINT
TYPICAL DETAIL
SCALE 1:50

Drawing file: 17639-2001E-TWC-DAMS.dwg - Plotted at: 16/12/2025 9:42:55 AM

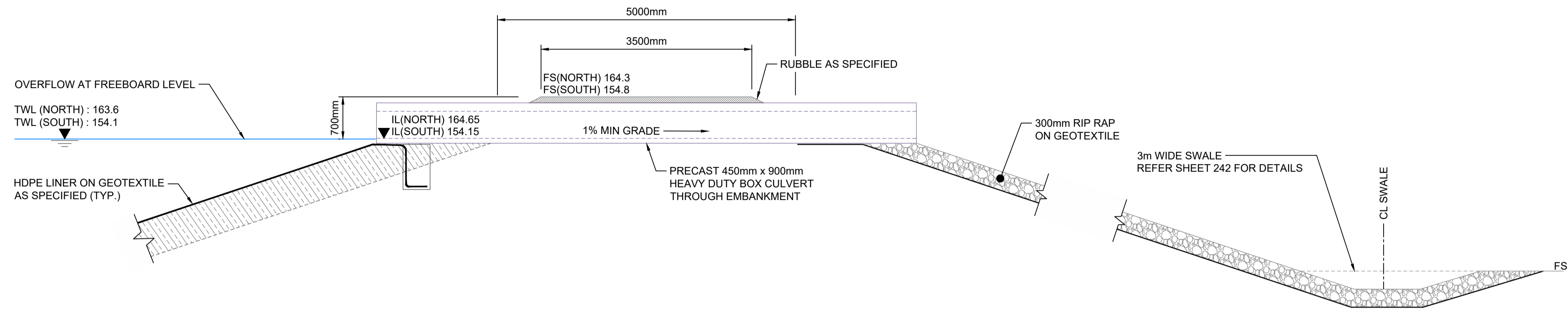
NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
E	15/12/25	MG	FOR TENDER				
D	02/10/25	MG	FOR TENDER				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

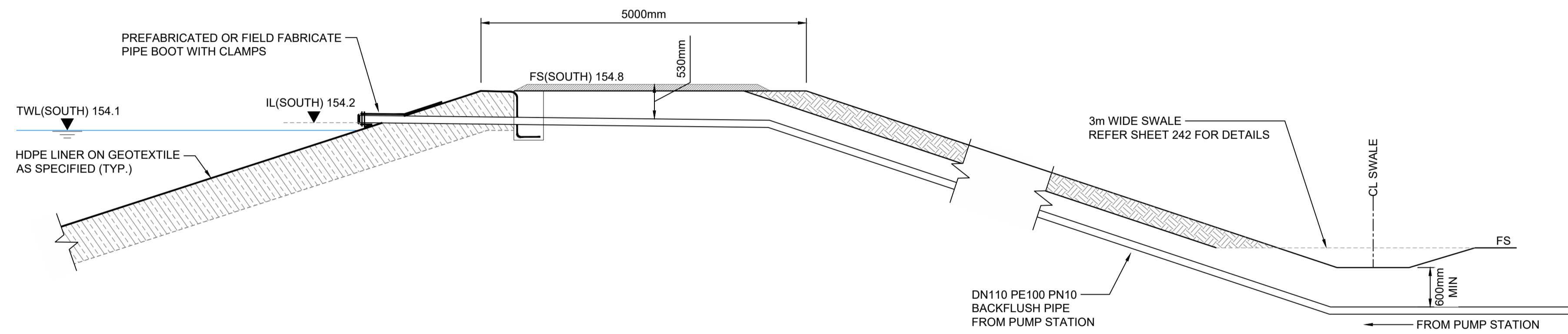
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 16/12/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 16/12/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94	REF MARK:
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.				


 1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	TYPICAL SECTIONS TYPICAL PIPE THROUGH WALL		
PROJECT REF:	17639	SHEET No.:	243
REV:			E



STORAGE OVERFLOW
CROSS SECTION
SCALE 1:50



BACKFLUSH PIPE
CROSS SECTION
SCALE 1:50

Drawing file: 17639-202001-TVC-DAMS.dwg - Plotted at: 30/09/2025 1:37:03 PM

NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

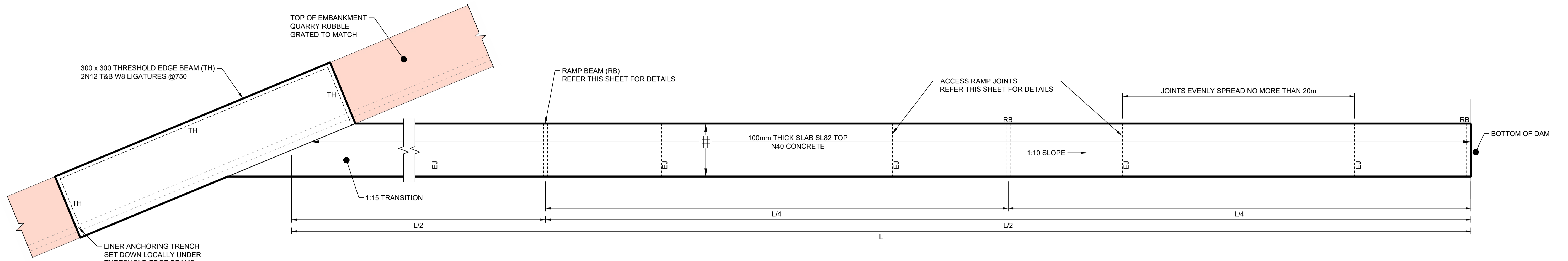
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	REF MARK:

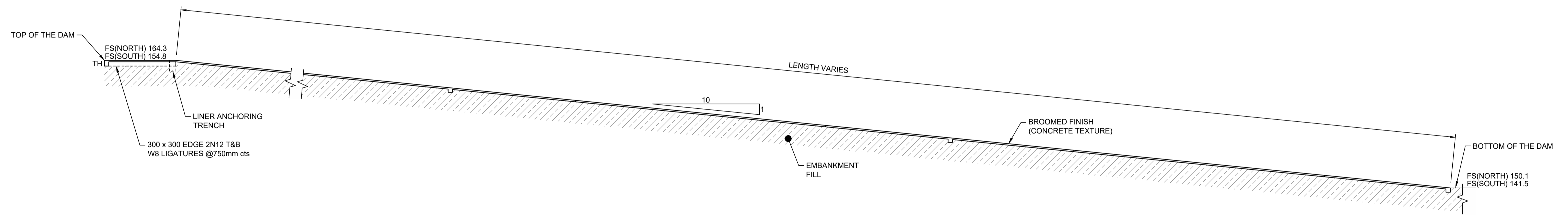


 1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

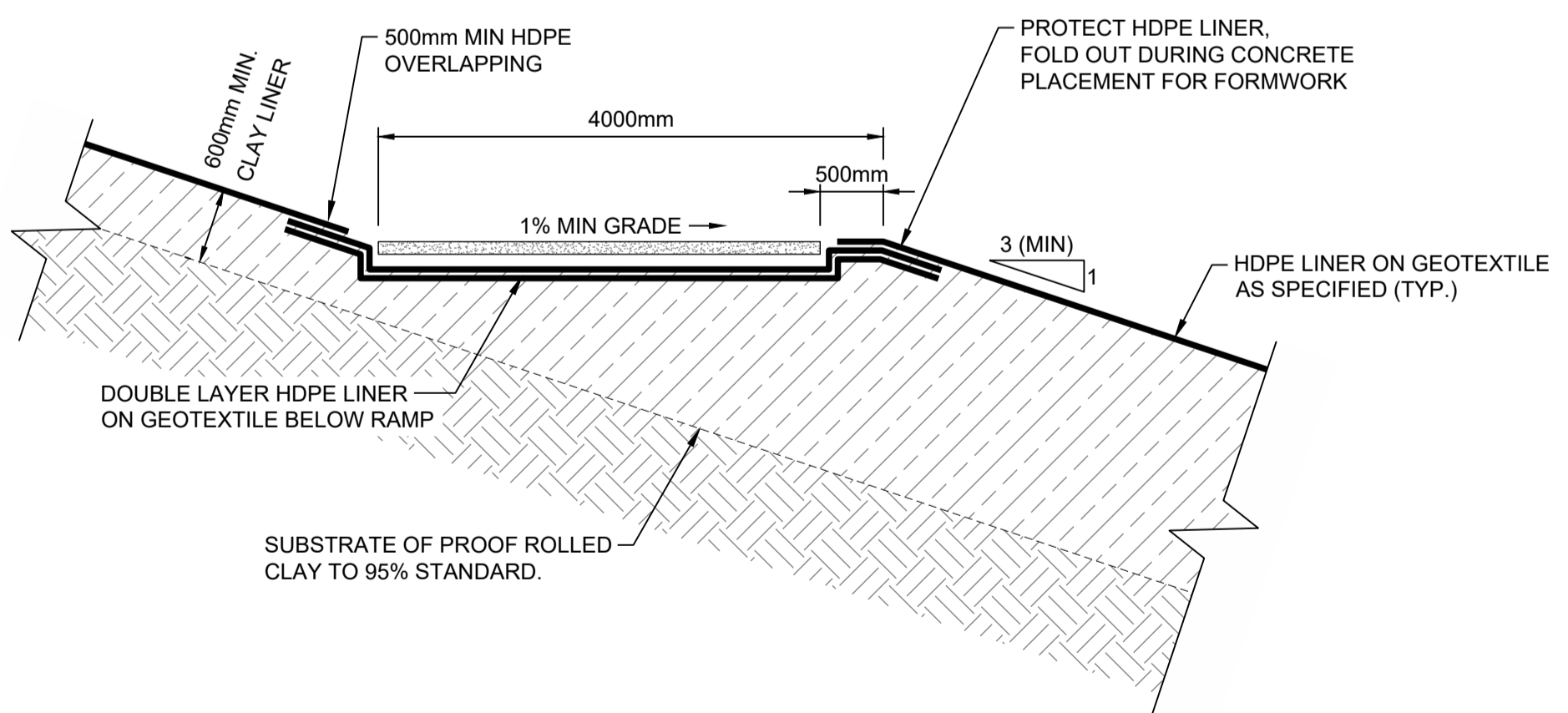
CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	TYPICAL SECTIONS TYPICAL PIPE THROUGH WALL		
PROJECT REF:	17639	SHEET No.:	244
REV:			D



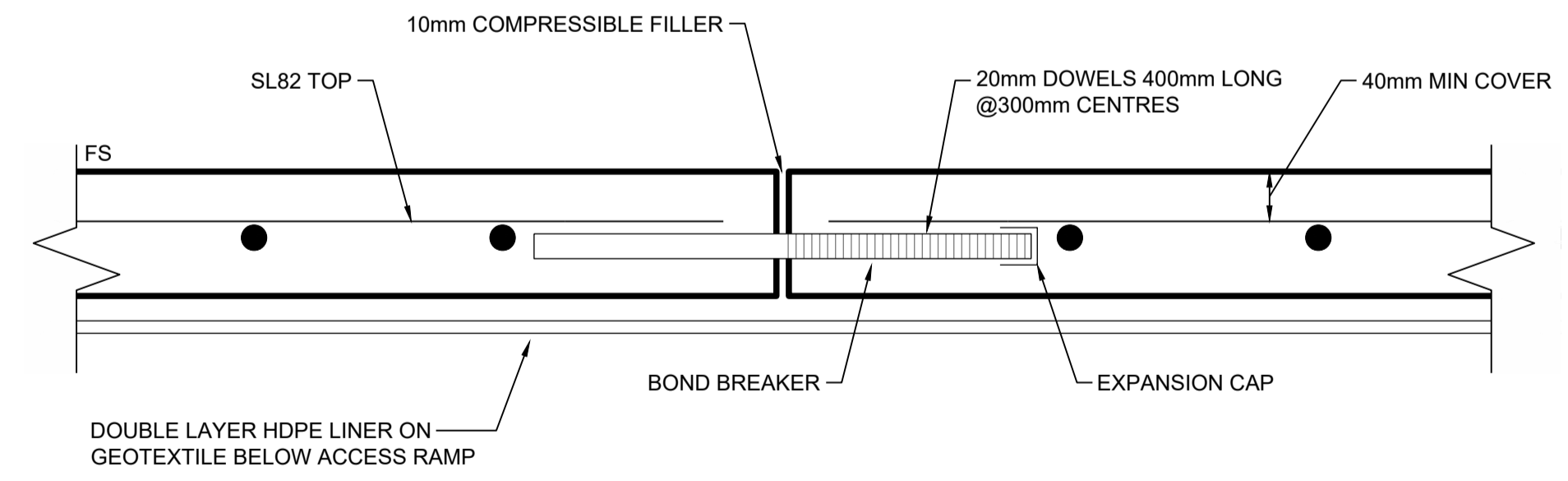
EMBANKMENT RAMP
TYPICAL PLAN
SCALE 1:150



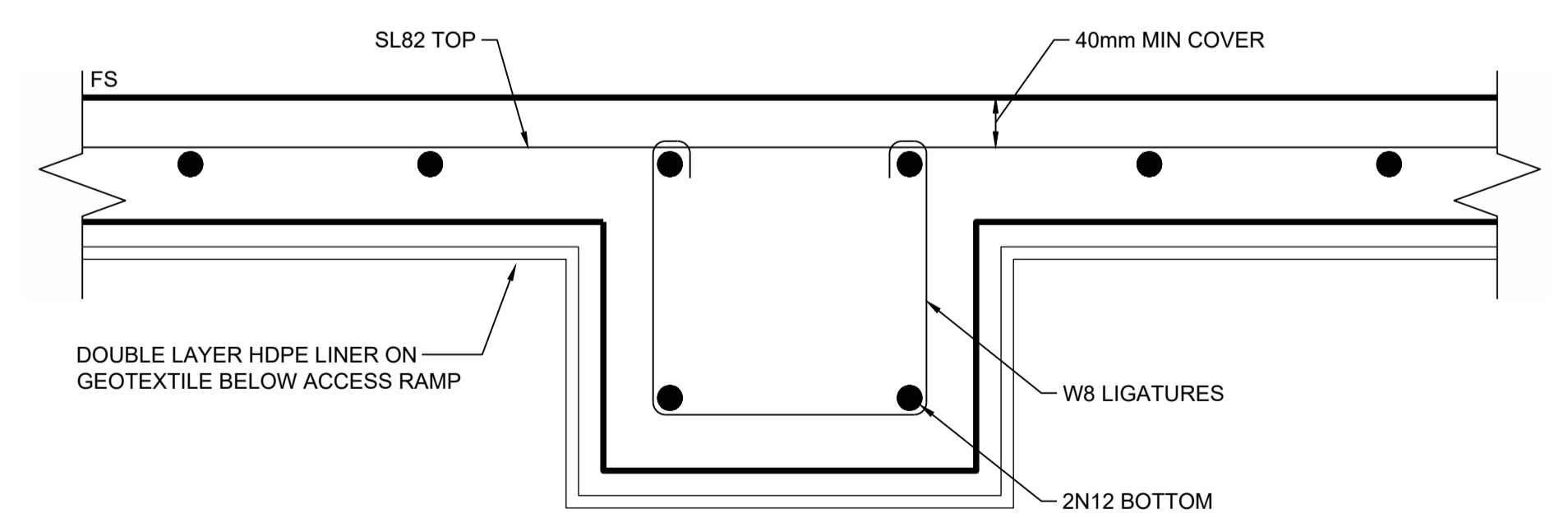
EMBANKMENT RAMP
TYPICAL LONG SECTION
SCALE 1:50



EMBANKMENT RAMP
TYPICAL CROSS SECTION
SCALE 1:50



ACCESS RAMP EXPANSION JOINT (EJ)
TYPICAL CROSS SECTION DETAIL
SCALE 1:5



RAMP BEAM (RB)
TYPICAL CROSS SECTION DETAIL
SCALE 1:5

NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

Drawing file: 17639-2020-01-TVC-DAMS.dwg - Plotted at: 30/09/2025 1:37:28 PM

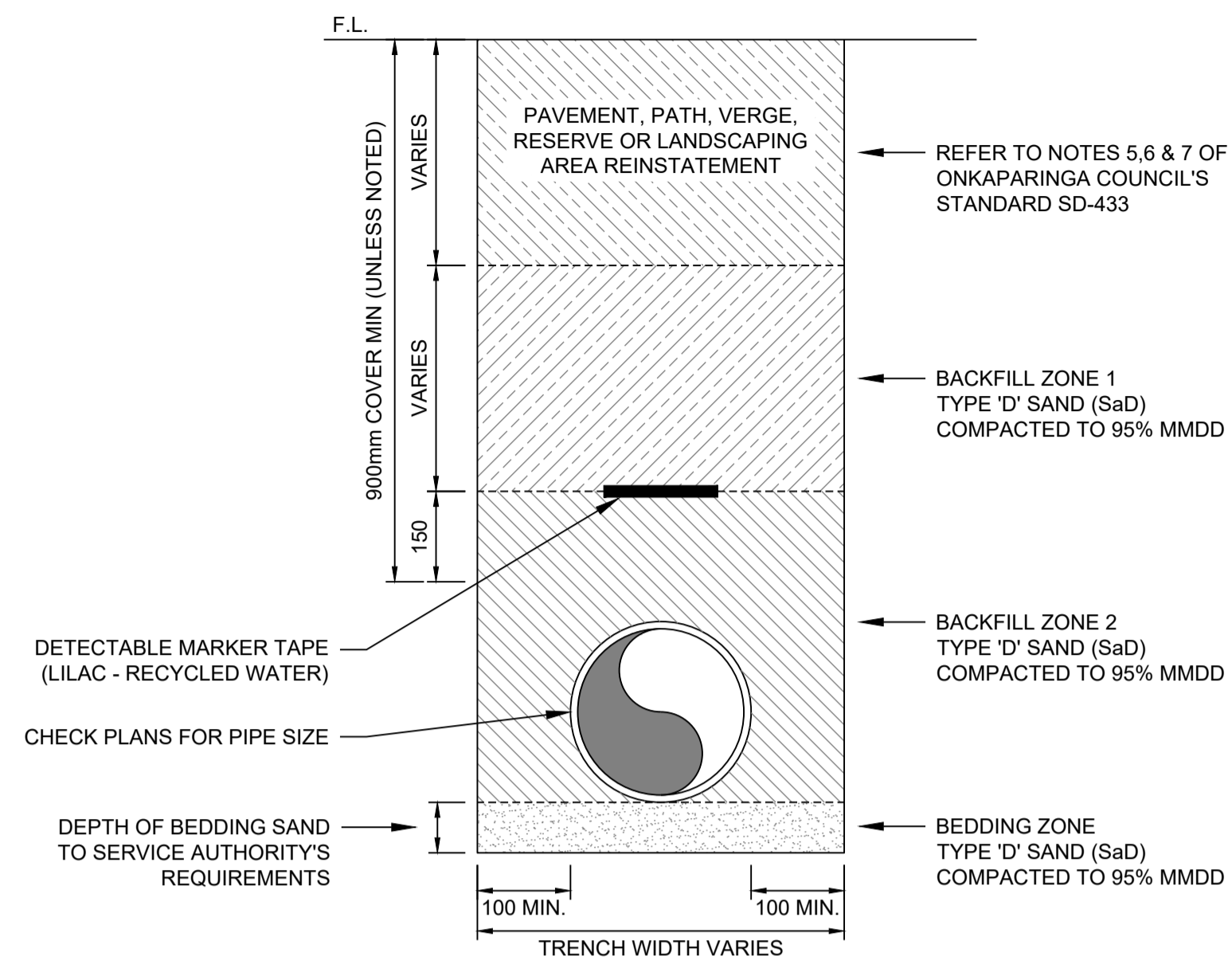
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94	ALL LEVELS ARE TO AHD
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 30/09/25	REF MARK:	

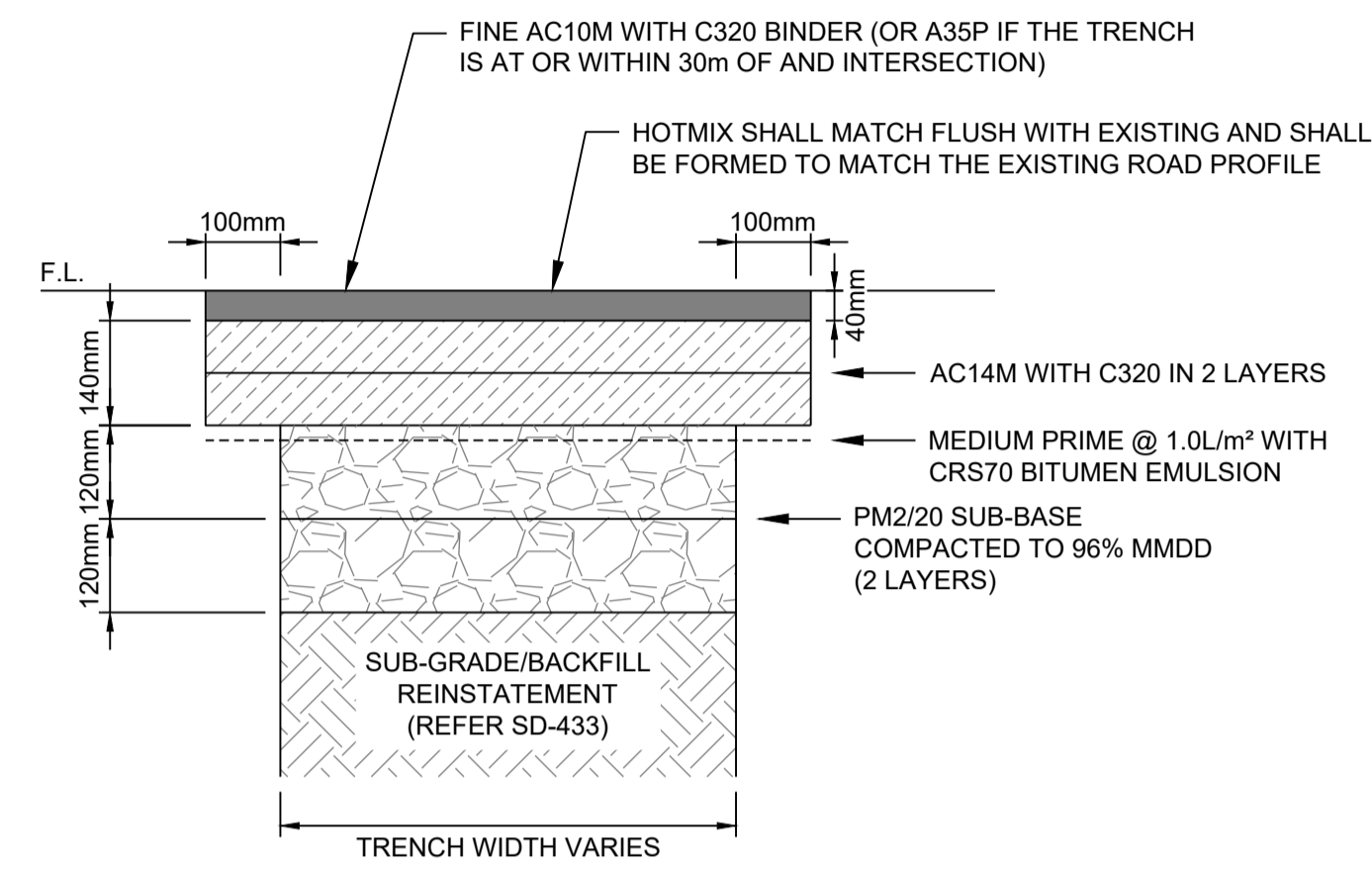


 1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

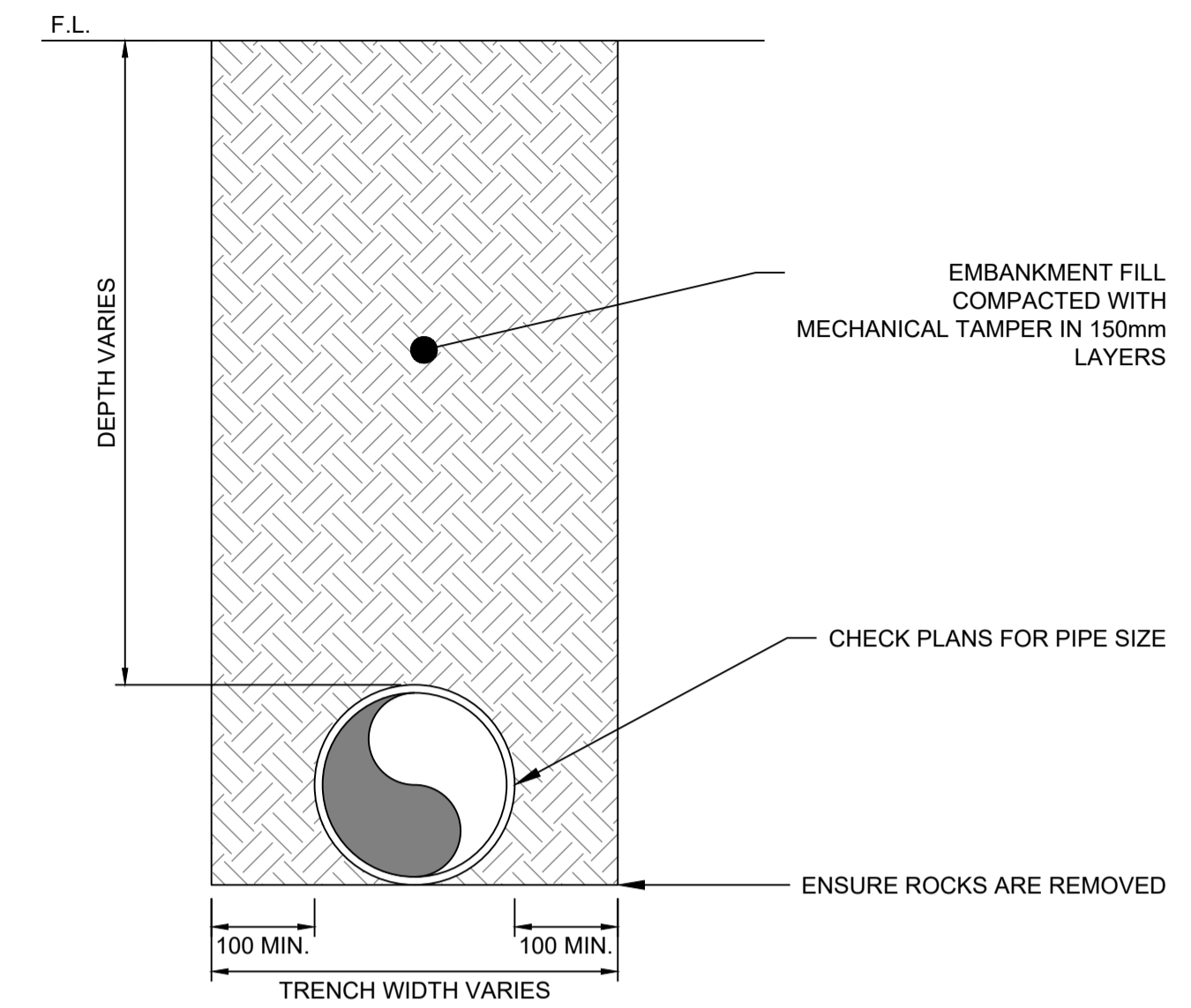
CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	TYPICAL SECTIONS TYPICAL RAMP DETAILS		
PROJECT REF:	17639	SHEET No.:	245
REV:			D



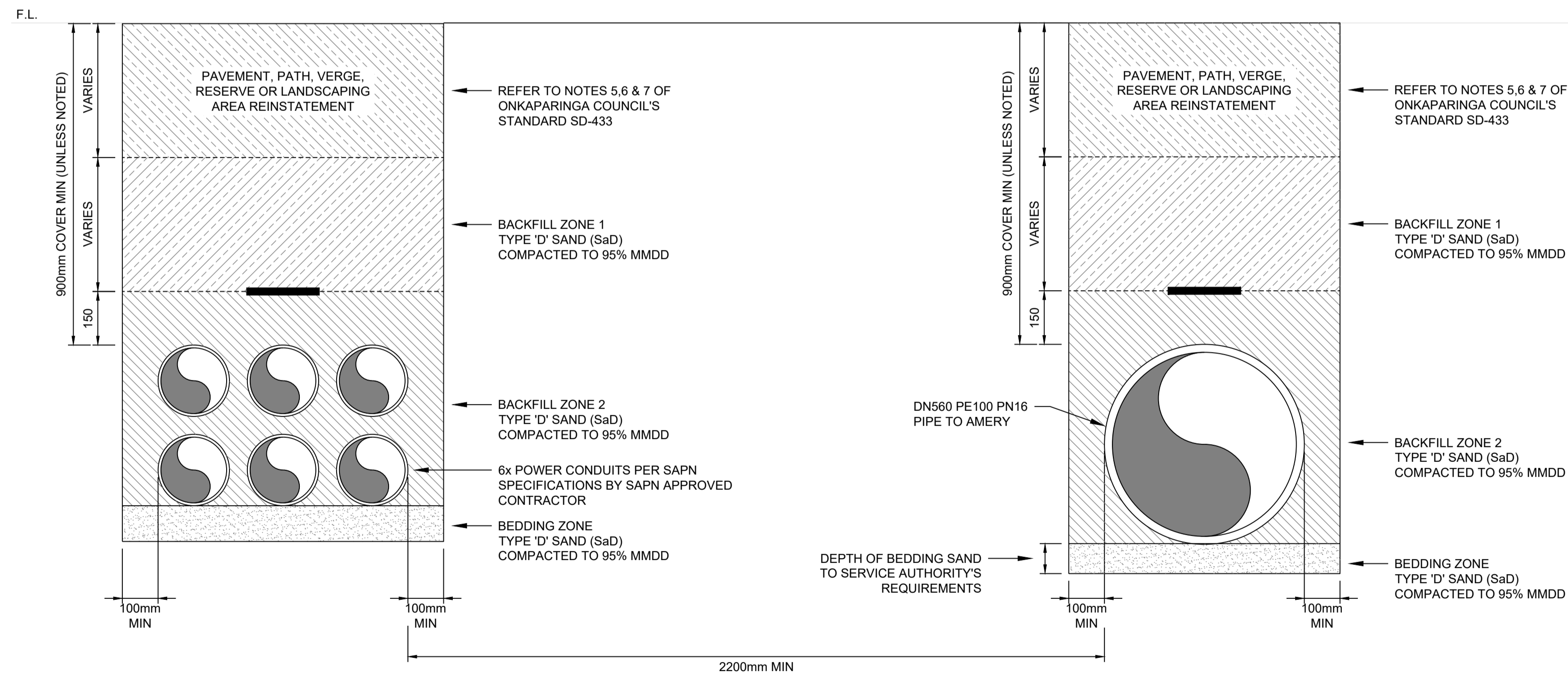
**SERVICE TRENCH BACKFILLING
TYPICAL TRENCH DETAIL**
EXTRACT FROM COUNCIL STANDARD (SD-433)
BELOW SUB-BASE LEVEL FOR CONDUITS OR SERVICES - SCALE 1:10



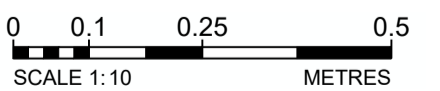
**PAVEMENT REINSTATEMENT FOR TRENCHES & REPAIRS
TYPICAL TRENCH DETAIL**
EXTRACT FROM COUNCIL STANDARD (TYPE 2)(SD-431)
BELOW FOR COLLECTOR & DISTRIBUTOR ROADS - SCALE 1:10



**PIPE UNDER EMBANKMENT
TYPICAL TRENCH DETAIL**
SCALE 1:10



**DN560 PE100 PN16 PIPE & POWER LINE
TYPICAL TRENCH DETAIL**
BELOW SUB-BASE LEVEL FOR CONDUITS OR SERVICES - SCALE 1:10



Drawing file: 17639-2020(0)TVC-DRAWING - Pinned at 20/09/2025 1:37:36 PM

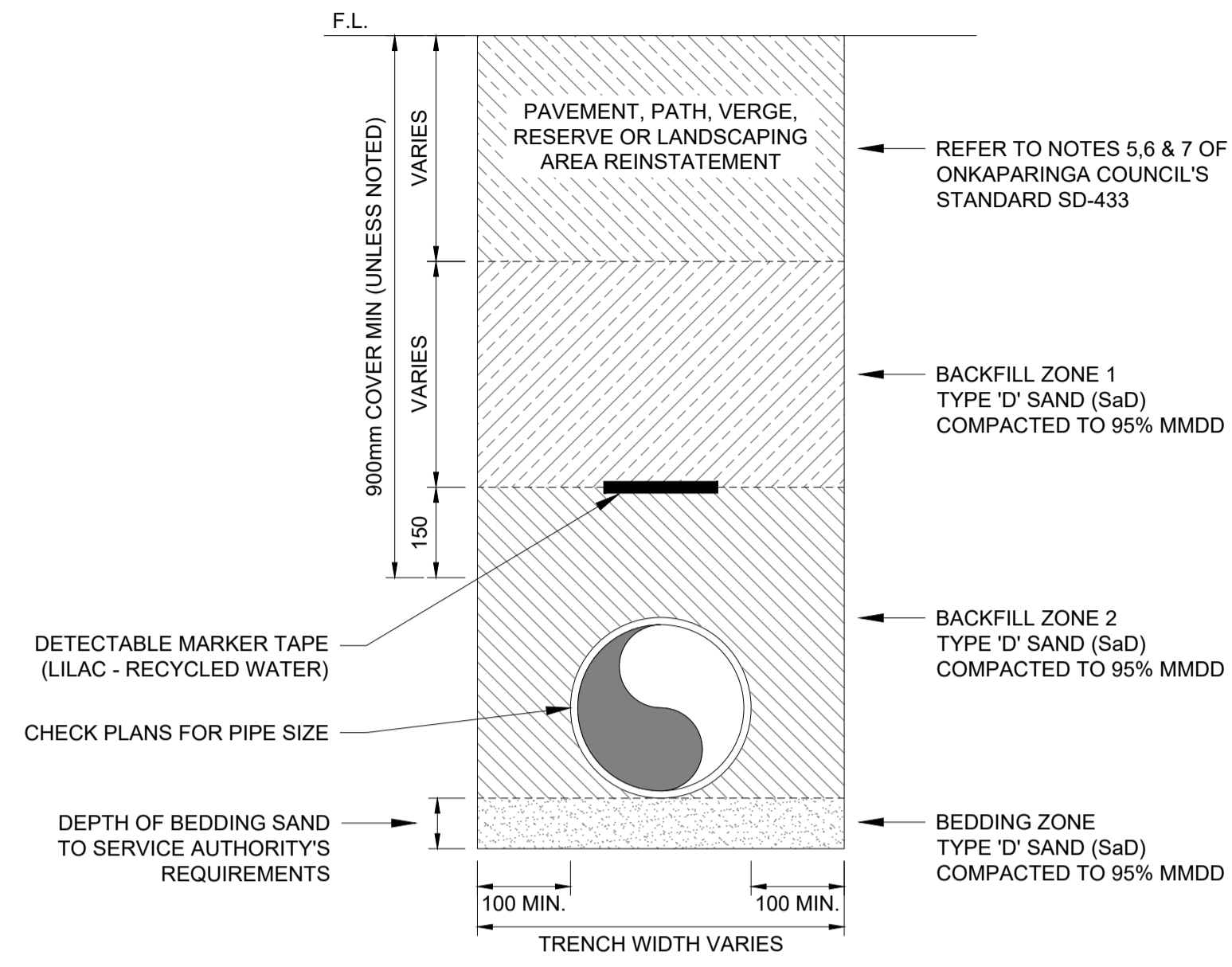
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC		SCALE: 100:1_XREF	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN		UNITS: ALL UNITS ARE IN METRES U.N.O.	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD
APPROVED: M. ALLEN		DATE: 30/09/25		REF MARK:	

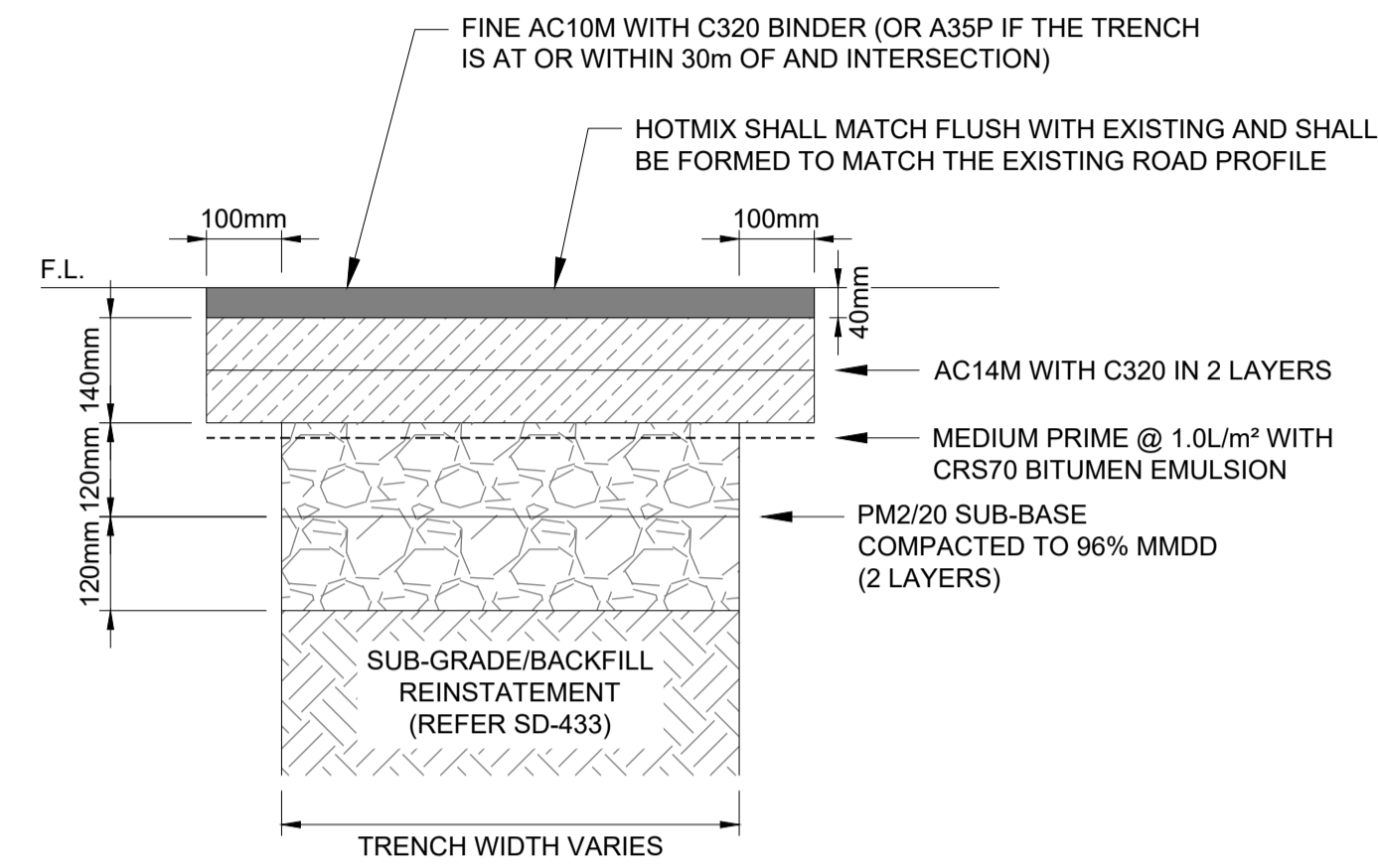


1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

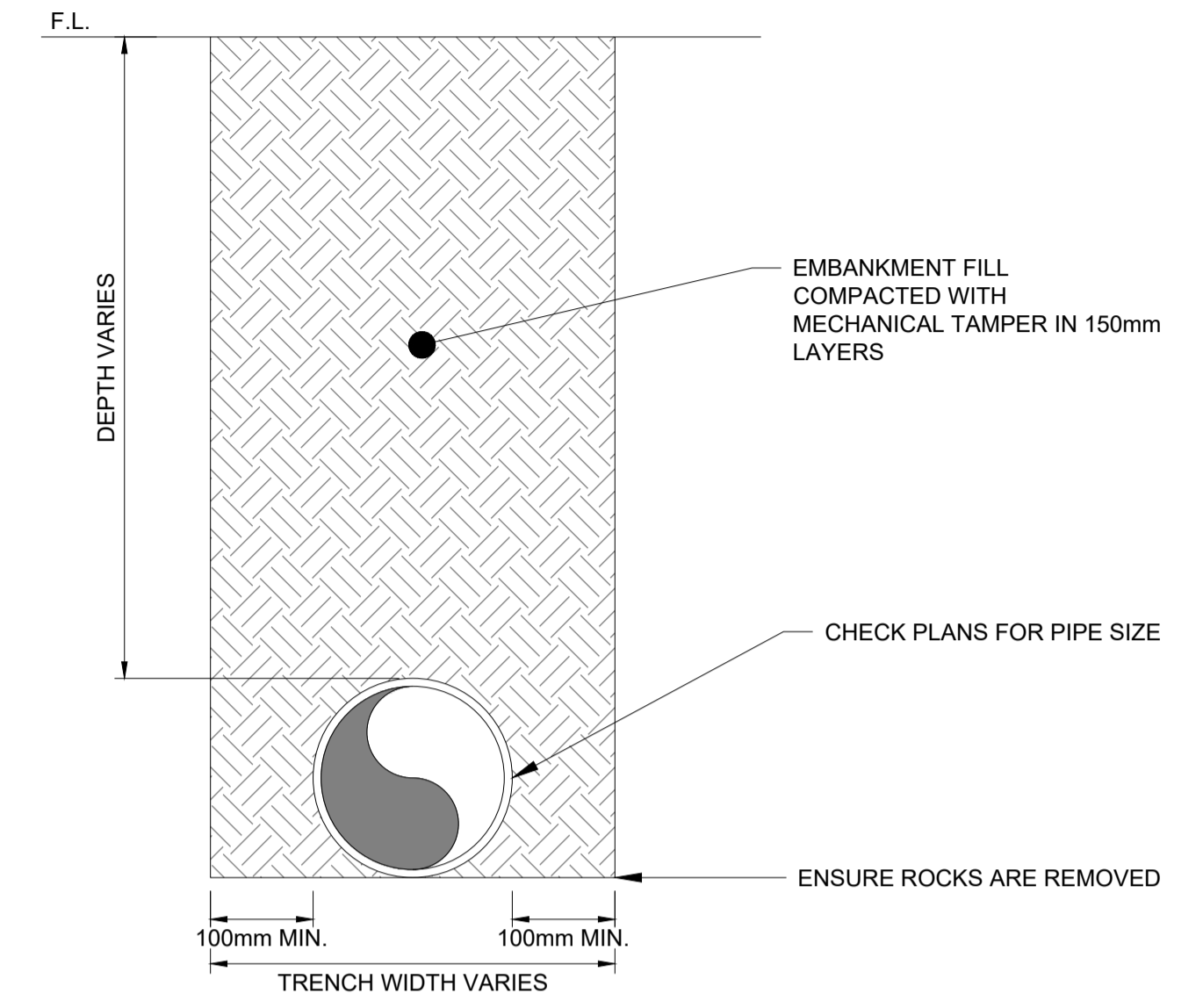
CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	INSTALLATION DETAILS PIPELINE/TRENCH CROSS SECTIONS		
PROJECT REF:	17639	SHEET No.:	251
REV:			D



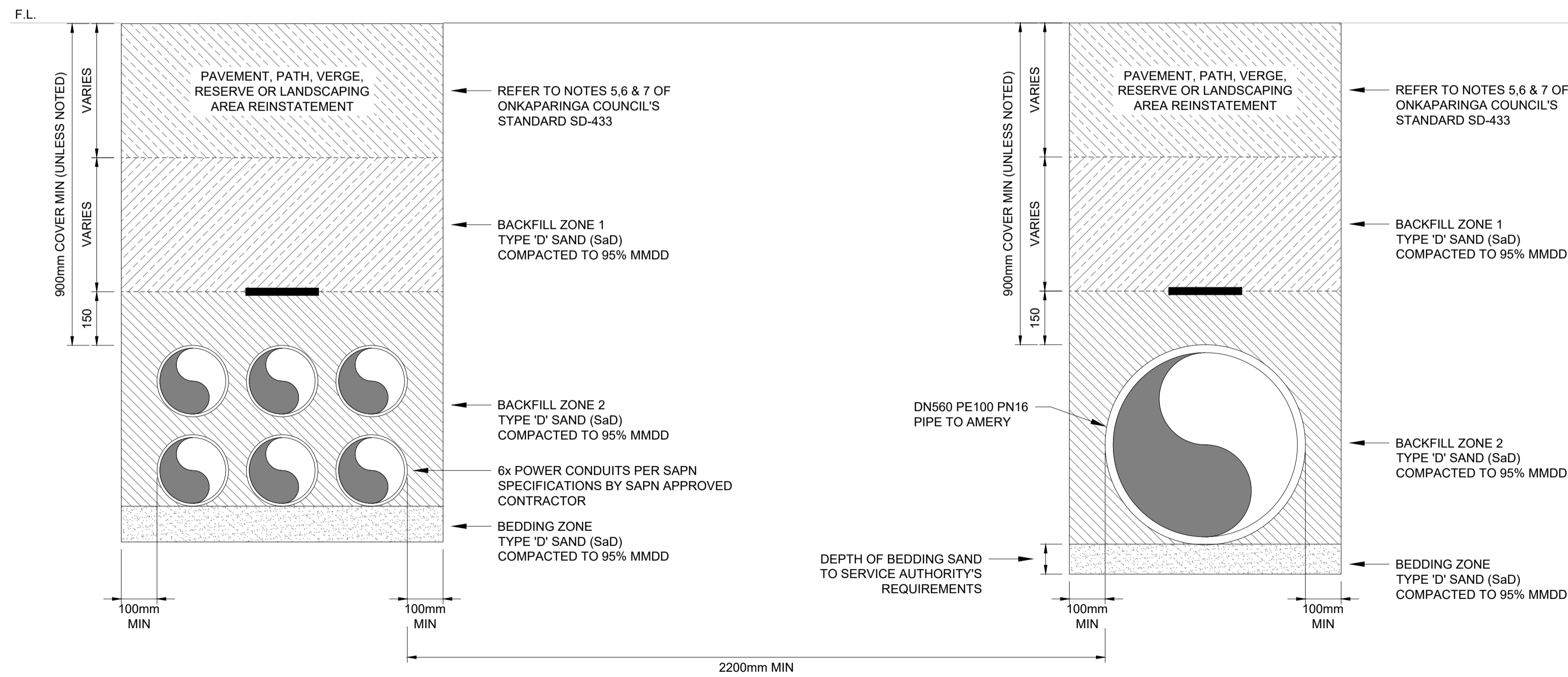
**SERVICE TRENCH BACKFILLING
TYPICAL TRENCH DETAIL**
EXTRACT FROM COUNCIL STANDARD (SD-433)
BELOW SUB-BASE LEVEL FOR CONDUITS OR SERVICES - SCALE 1:10



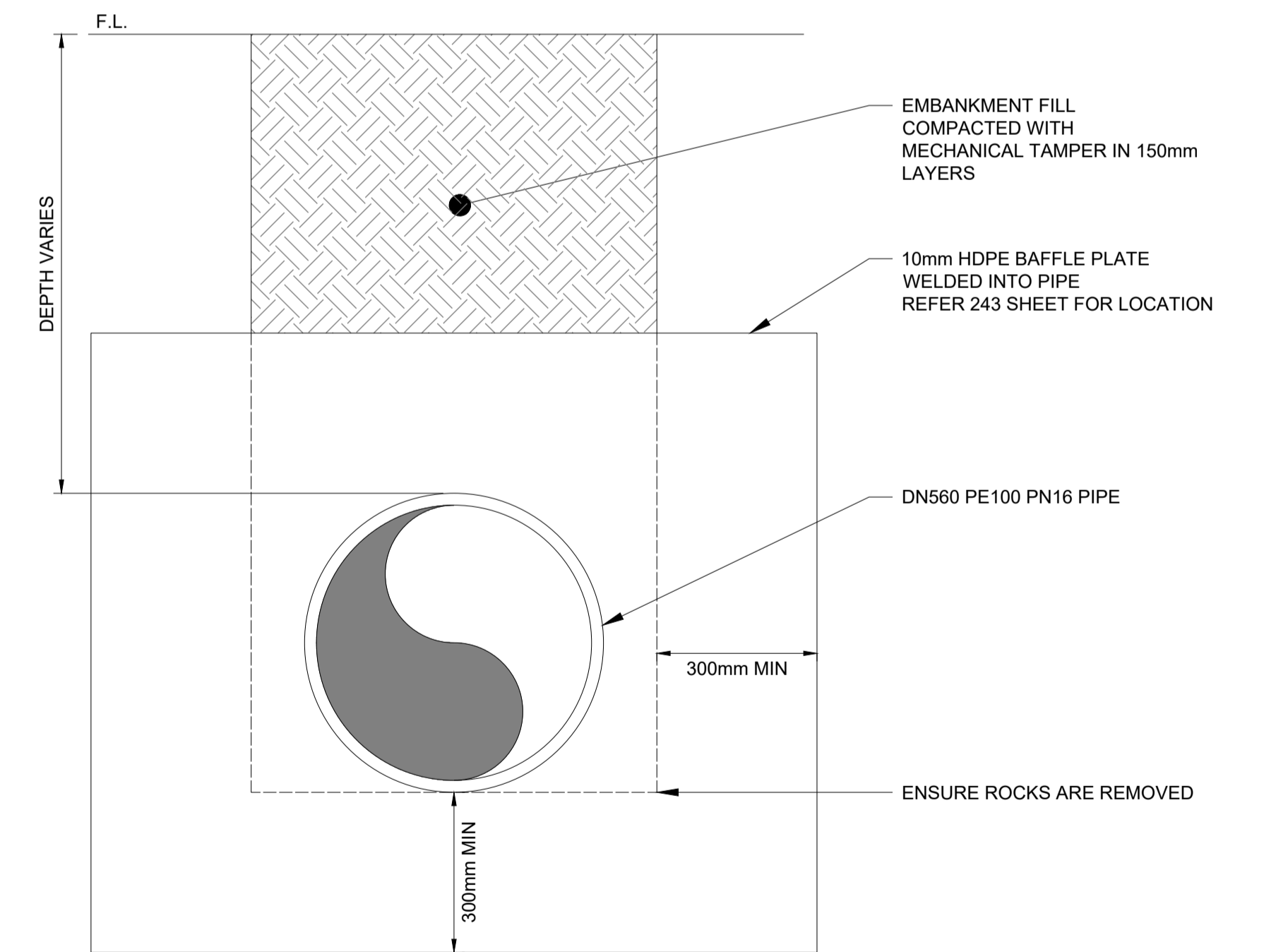
**PAVEMENT REINSTATEMENT FOR TRENCHES & REPAIRS
TYPICAL TRENCH DETAIL**
EXTRACT FROM COUNCIL STANDARD (TYPE 2)(SD-431)
BELOW FOR COLLECTOR & DISTRIBUTOR ROADS - SCALE 1:10



**PIPE UNDER EMBANKMENT
TYPICAL TRENCH DETAIL**
SCALE 1:10



**DN560 PE100 PN16 PIPE & POWER LINE
TYPICAL TRENCH DETAIL**
BELOW SUB-BASE LEVEL FOR CONDUITS OR SERVICES - SCALE 1:10



**INLET/OUTLET PIPE
TYPICAL TRENCH DETAIL**
SCALE 1:10

0 0.1 0.25 0.5
SCALE 1:10 METRES

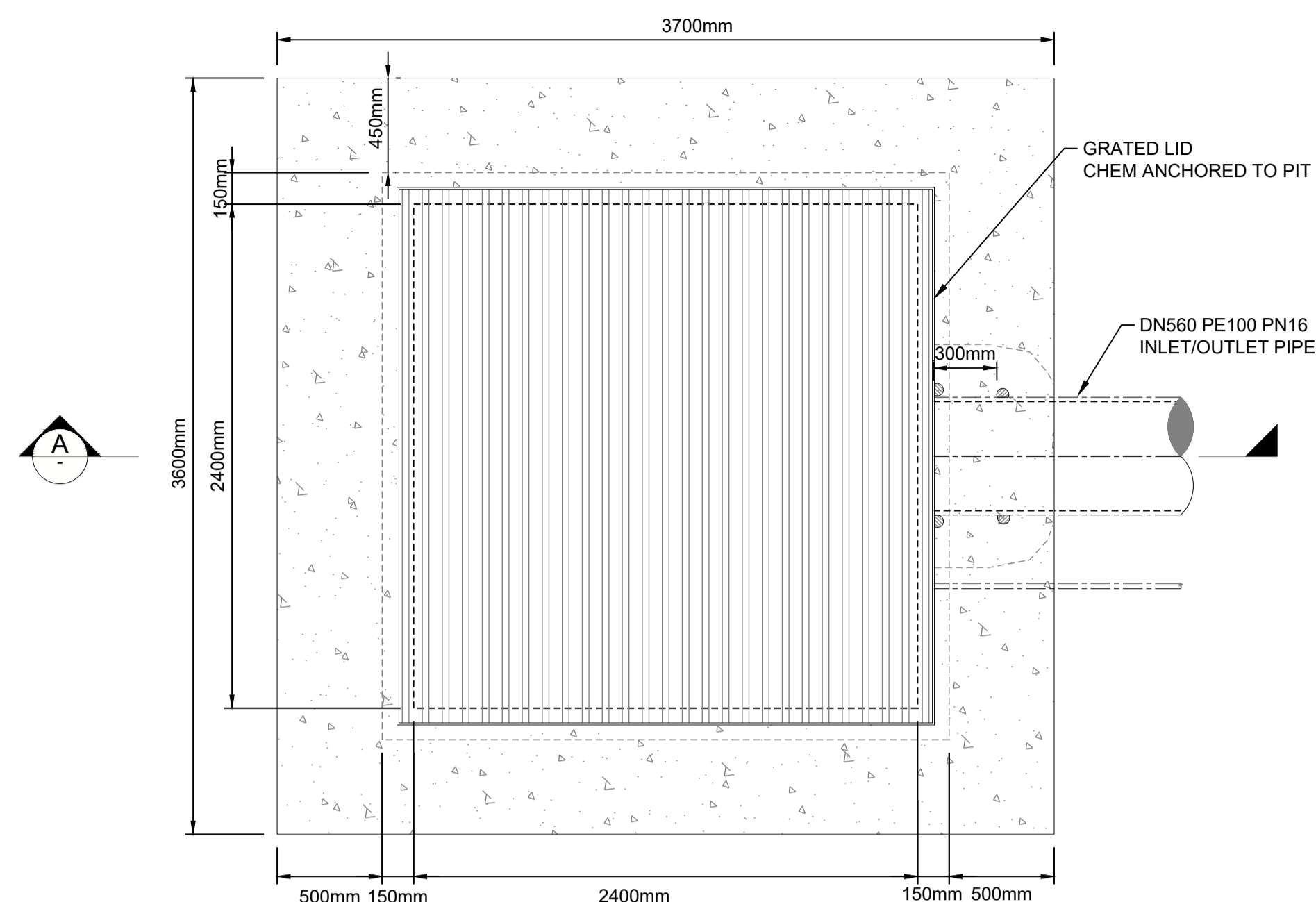
Drawing file: 17639-2020(01)TVC-DRAWING - Pinned at: 15/12/2025 2:20:02 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
E	15/12/25	MG	FOR TENDER				
D	02/10/25	MG	FOR TENDER				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

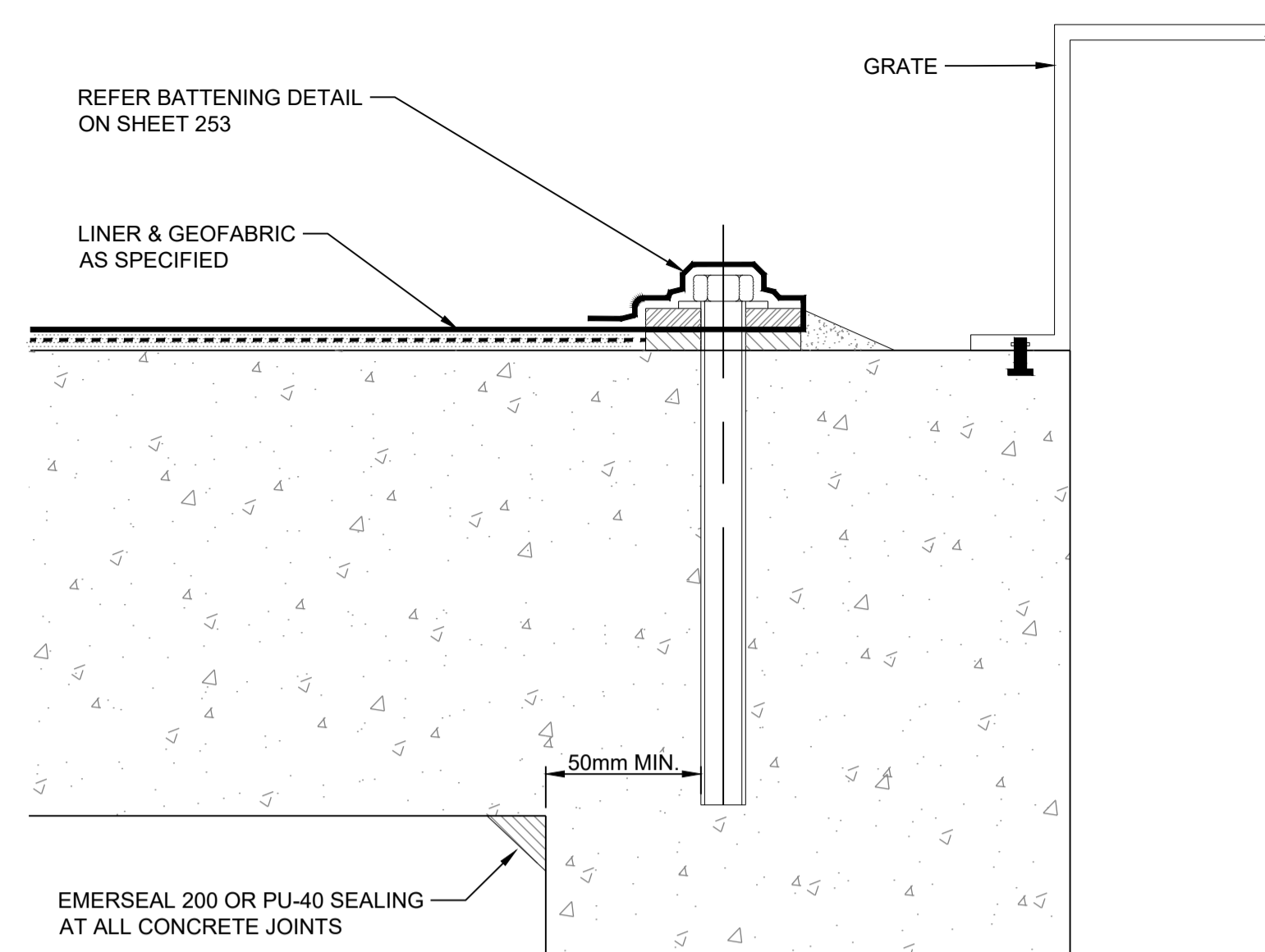
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 100:1_XREF	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 15/12/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD
APPROVED: M. ALLEN		DATE: 15/12/25	REF MARK:	

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

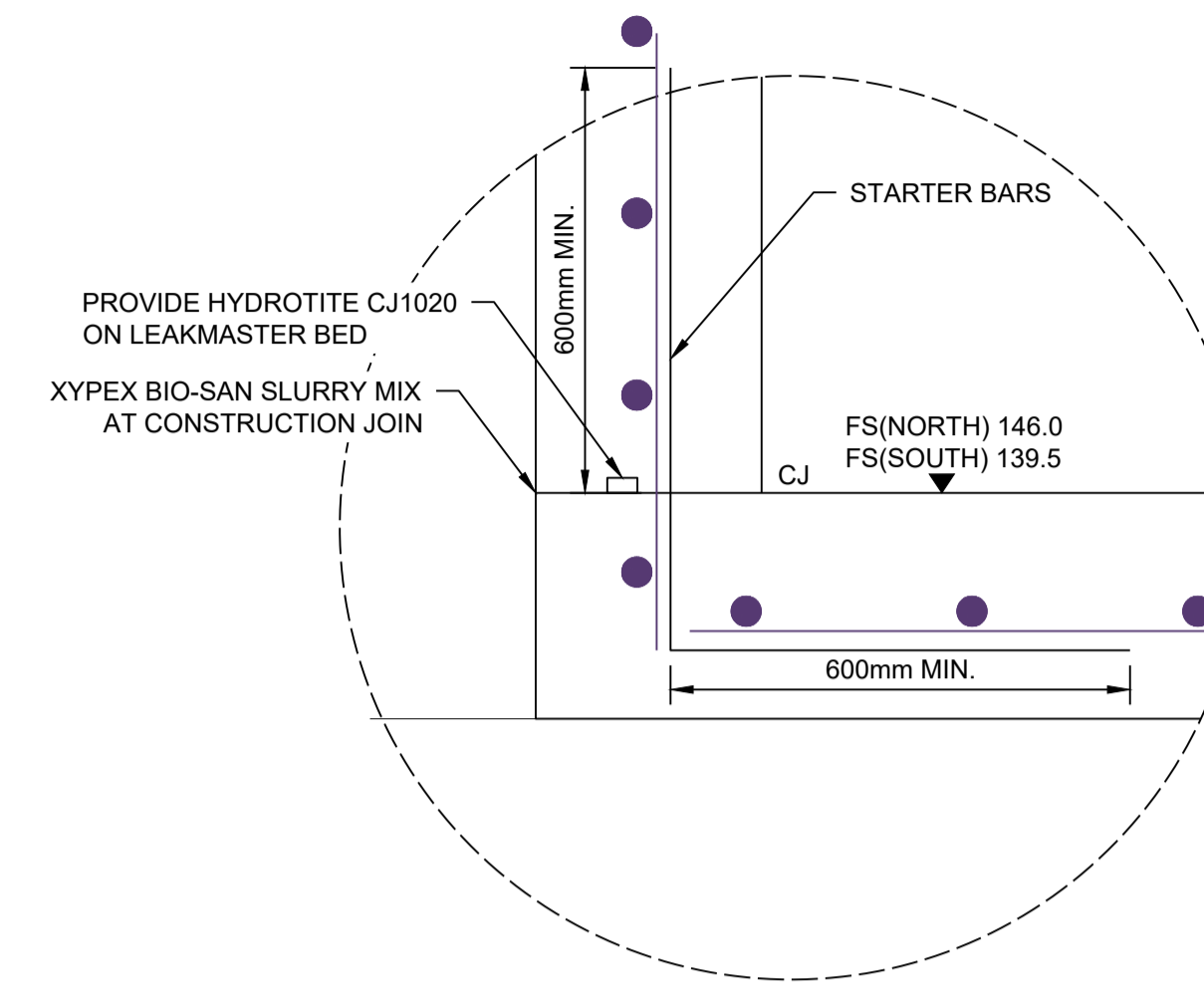
CLIENT: WILLUNGA BASIN WATER	SHEET No.:	REV:
PROJECT: BLEWITT SPRINGS STORAGE EXPANSION	251	E
SHEET TITLE: INSTALLATION DETAILS PIPELINE/TRENCH CROSS SECTIONS		
PROJECT REF: 17639		



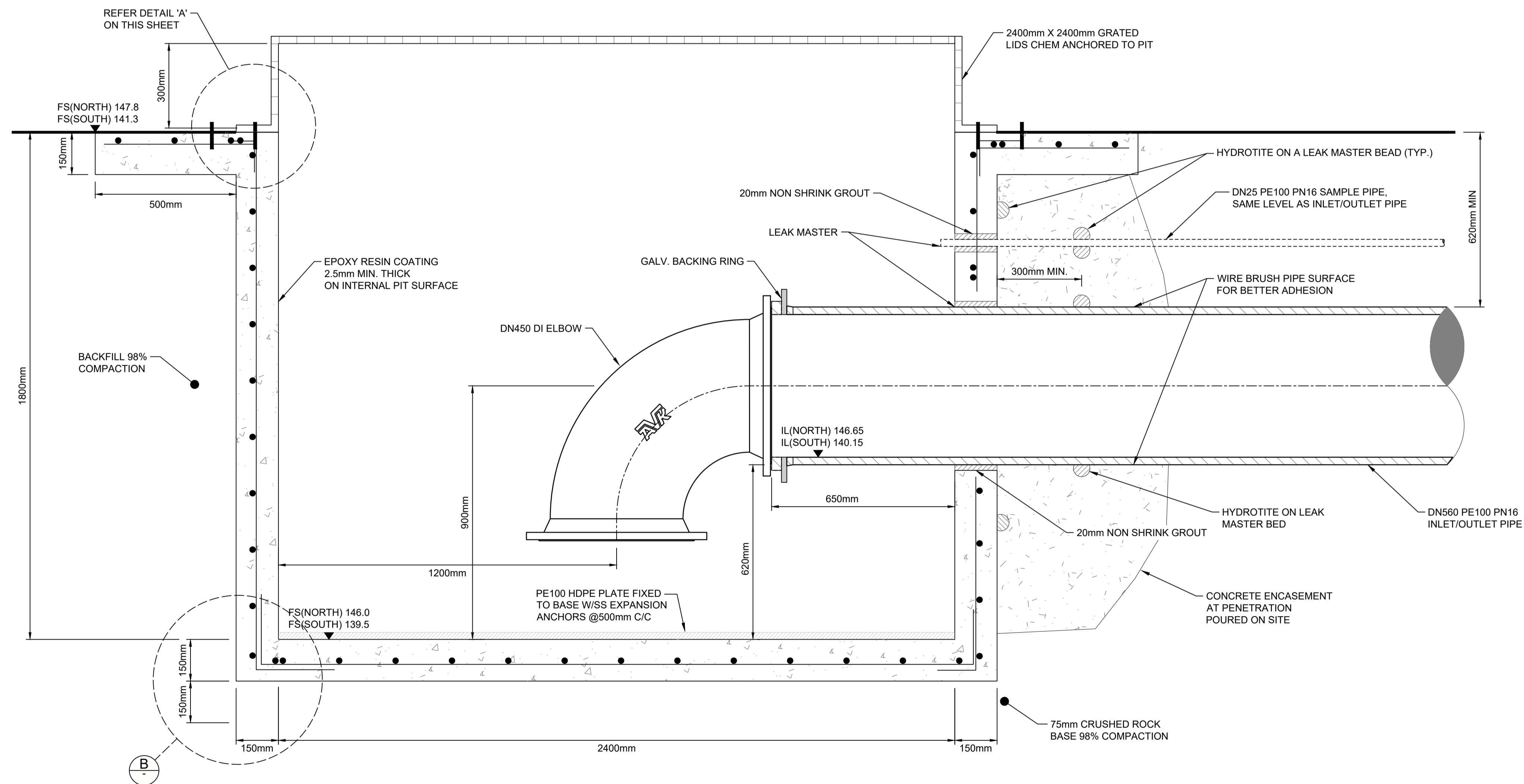
**INLET/OUTLET PIT
TYPICAL INSTALLATION DETAIL**
SCALE 1:20



DETAIL 'A'
NOT TO SCALE



DETAIL 'B'
SCALE 1:5



**INLET/OUTLET PIT
TYPICAL SECTION**
SCALE 1:10

Drawing file: 17639-2020-01-TVC-DRAW.dwg - Plotted at: 30/09/2025 1:38:03 PM

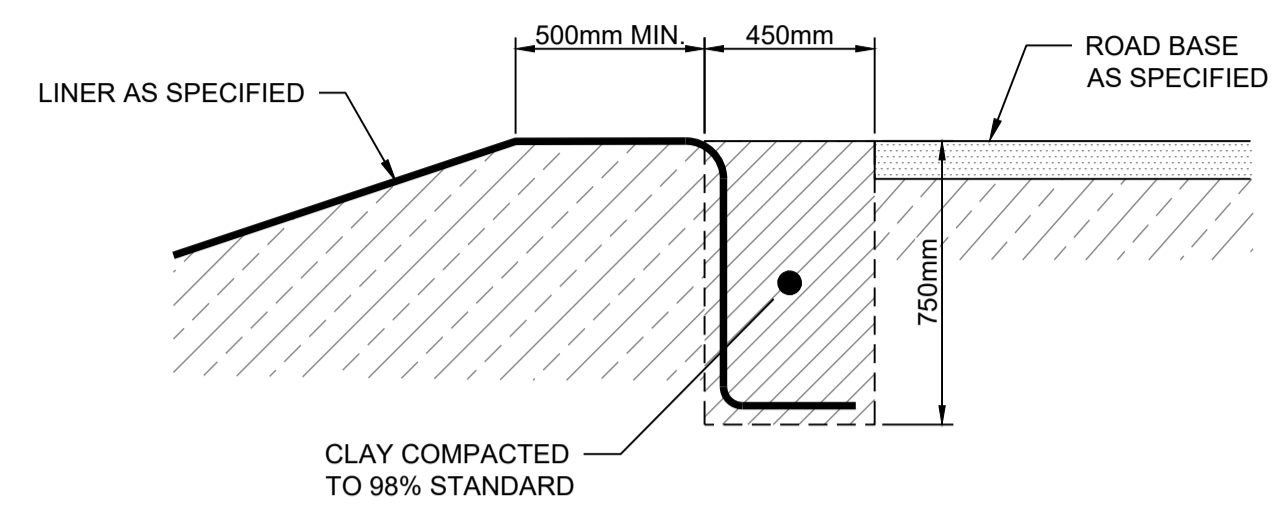
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94	REF MARK:
<small>COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.</small>				

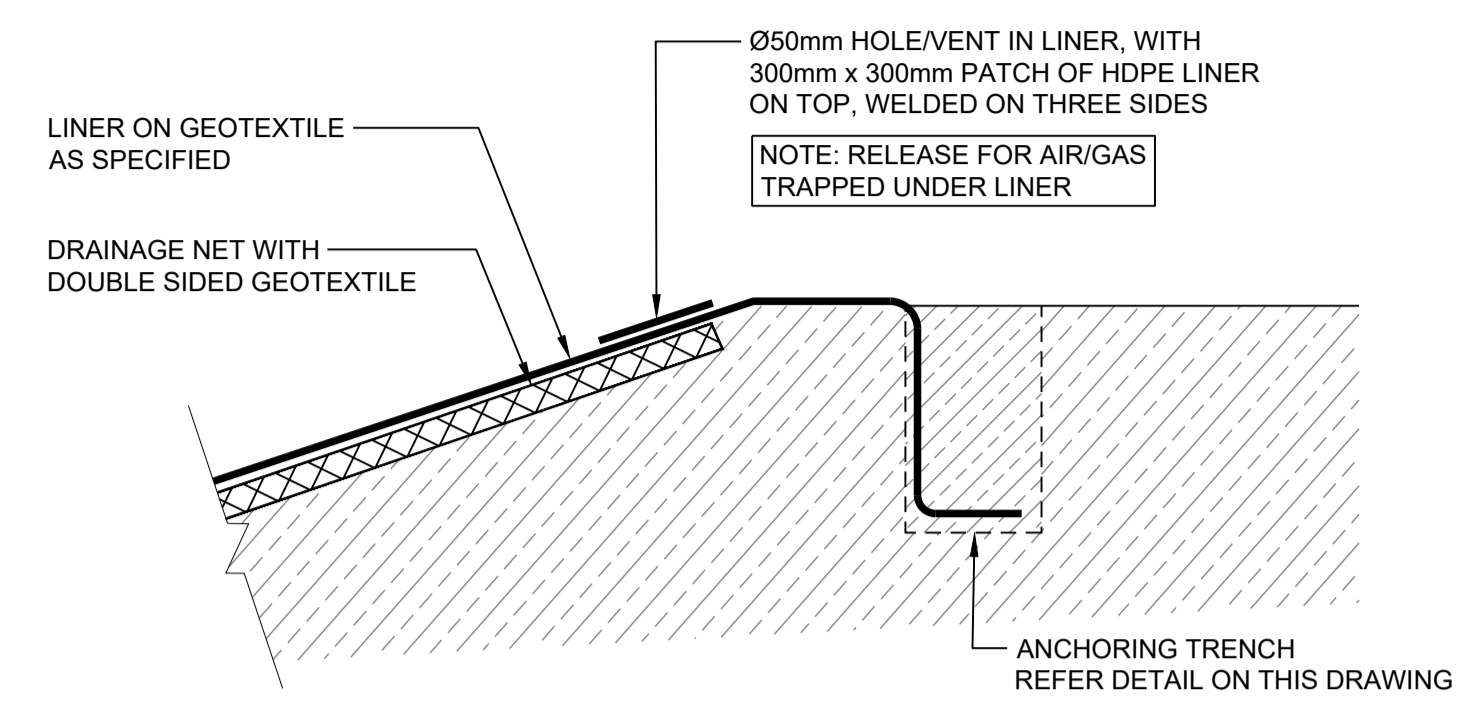

 1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	INSTALLATION DETAILS INLET/OUTLET PIT		
PROJECT REF:	17639	SHEET No.:	252
REV:			D

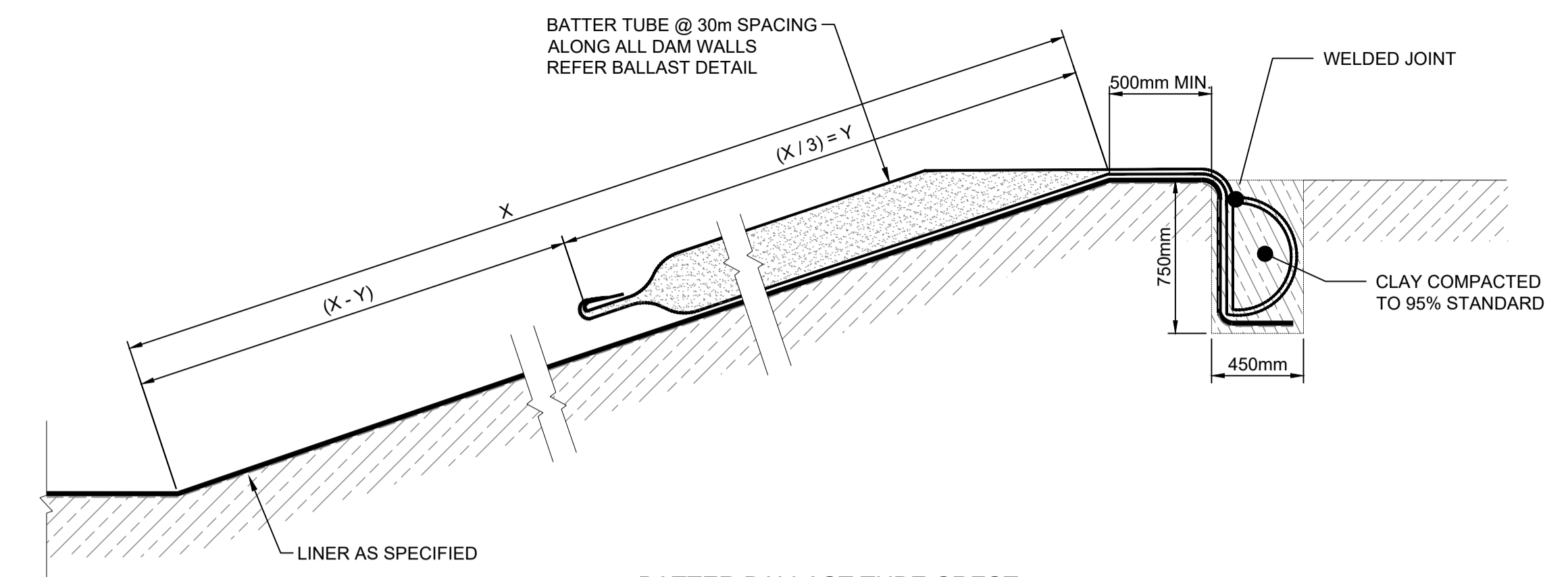
WARNING:
THIS AREA IS AT HIGH RISK OF FAILURE
ENSURE HIGH COMPACTION OF 95% MIN.



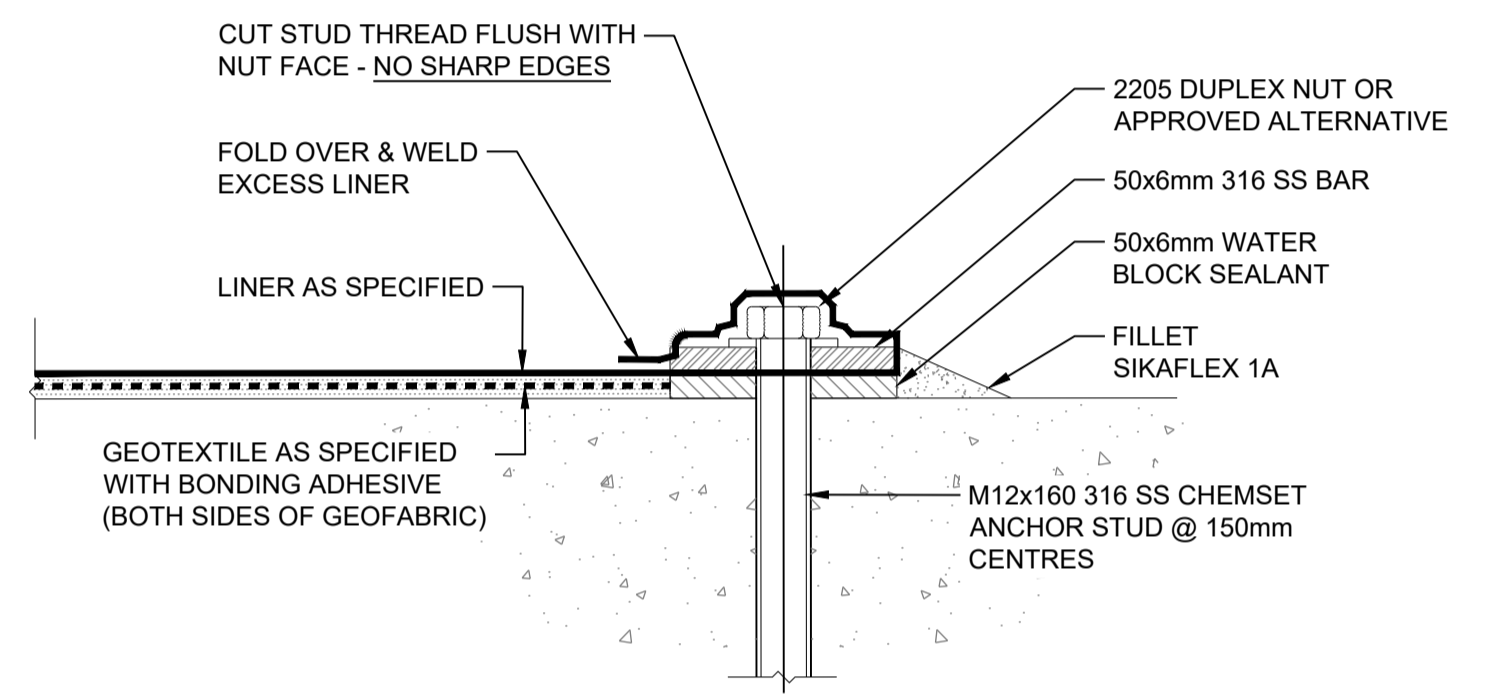
LINER ANCHORING TRENCH
TYPICAL INSTALLATION DETAIL
NOT TO SCALE



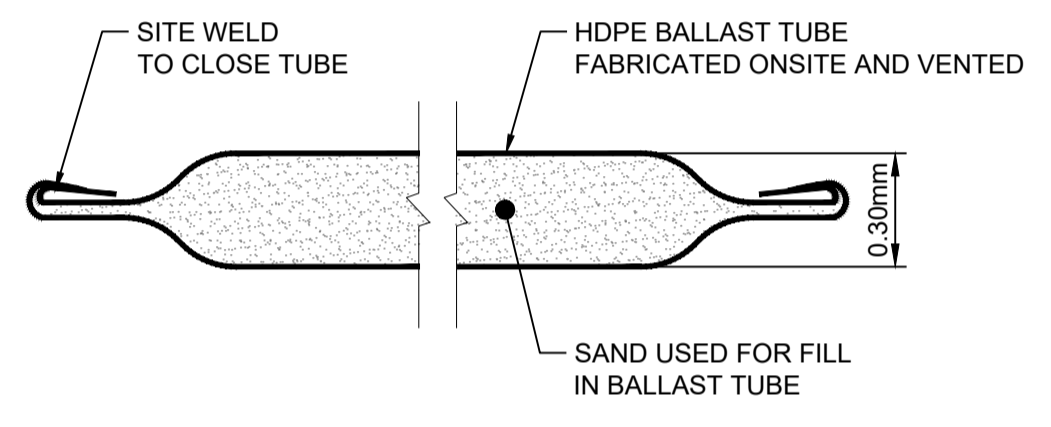
DRAINAGE NET RISER & VENT
TYPICAL INSTALLATION DETAIL
NOT TO SCALE



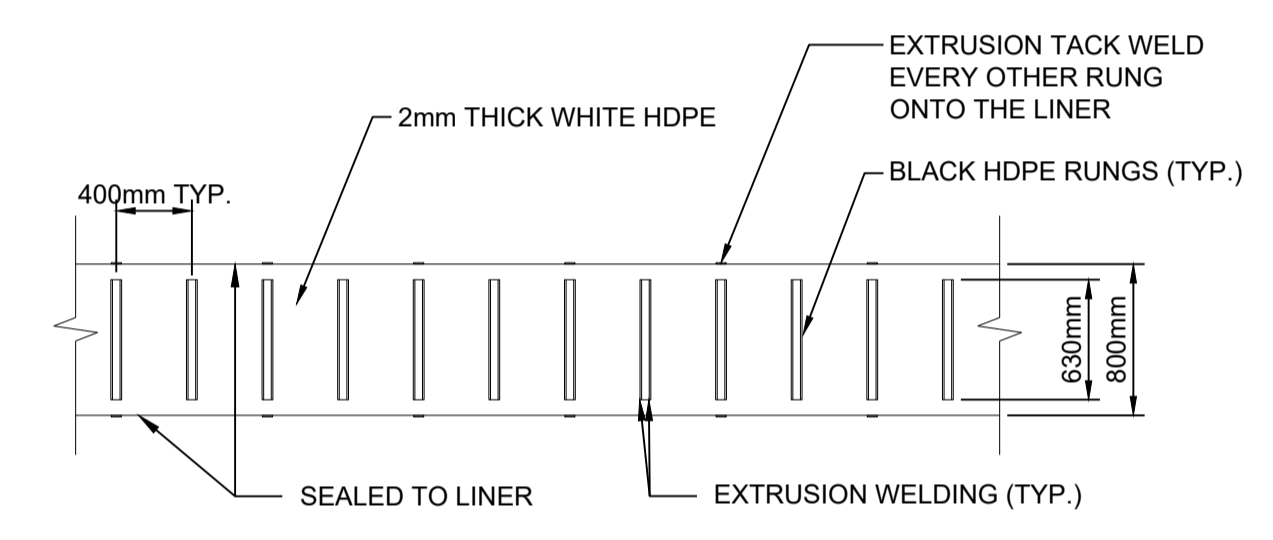
BATTER BALLAST TUBE CREST
TYPICAL ANCHOR DETAIL
NOT TO SCALE



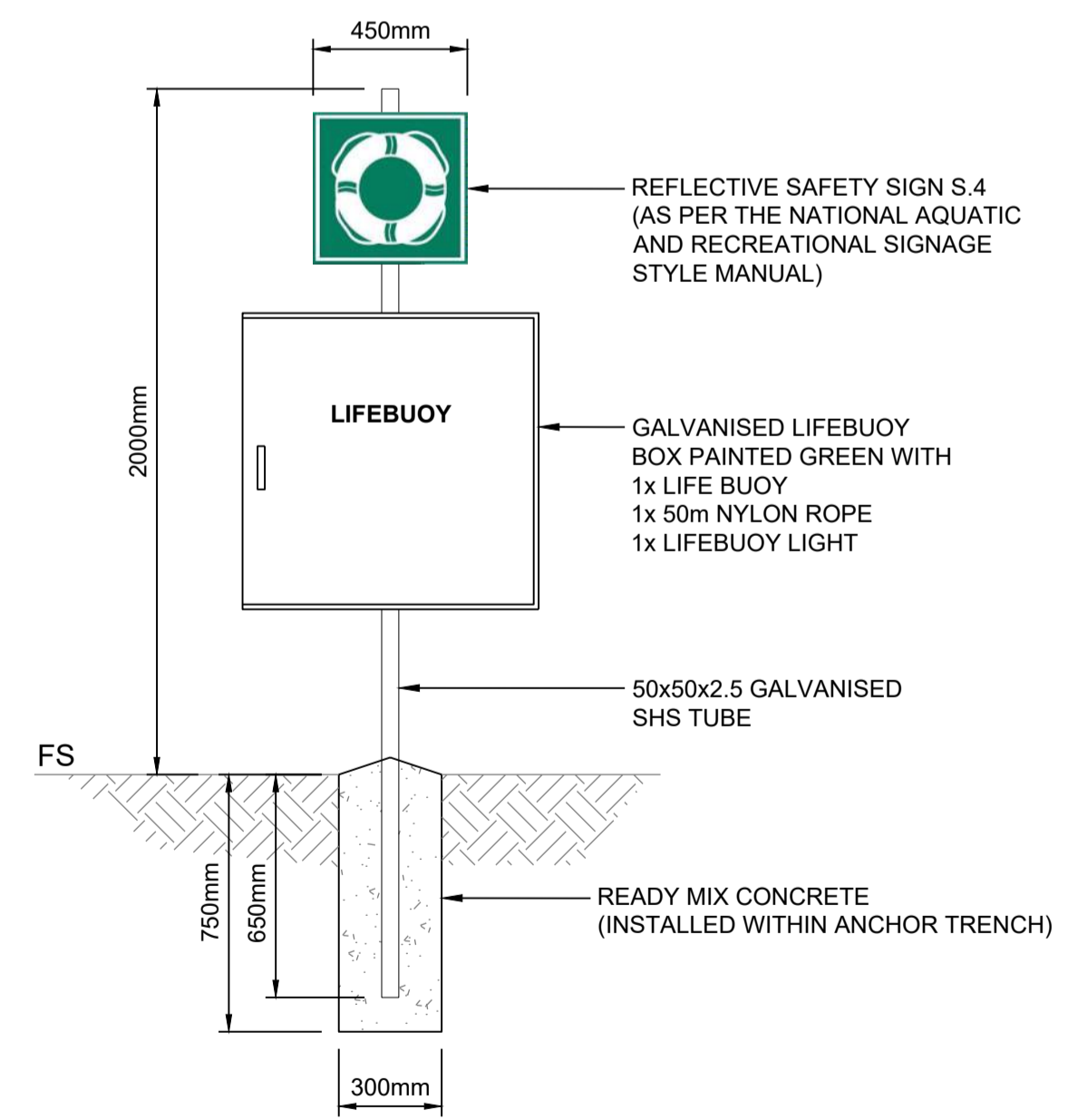
UNDER WATER LINER ATTACHMENT
TYPICAL BATTENING DETAIL
NOT TO SCALE



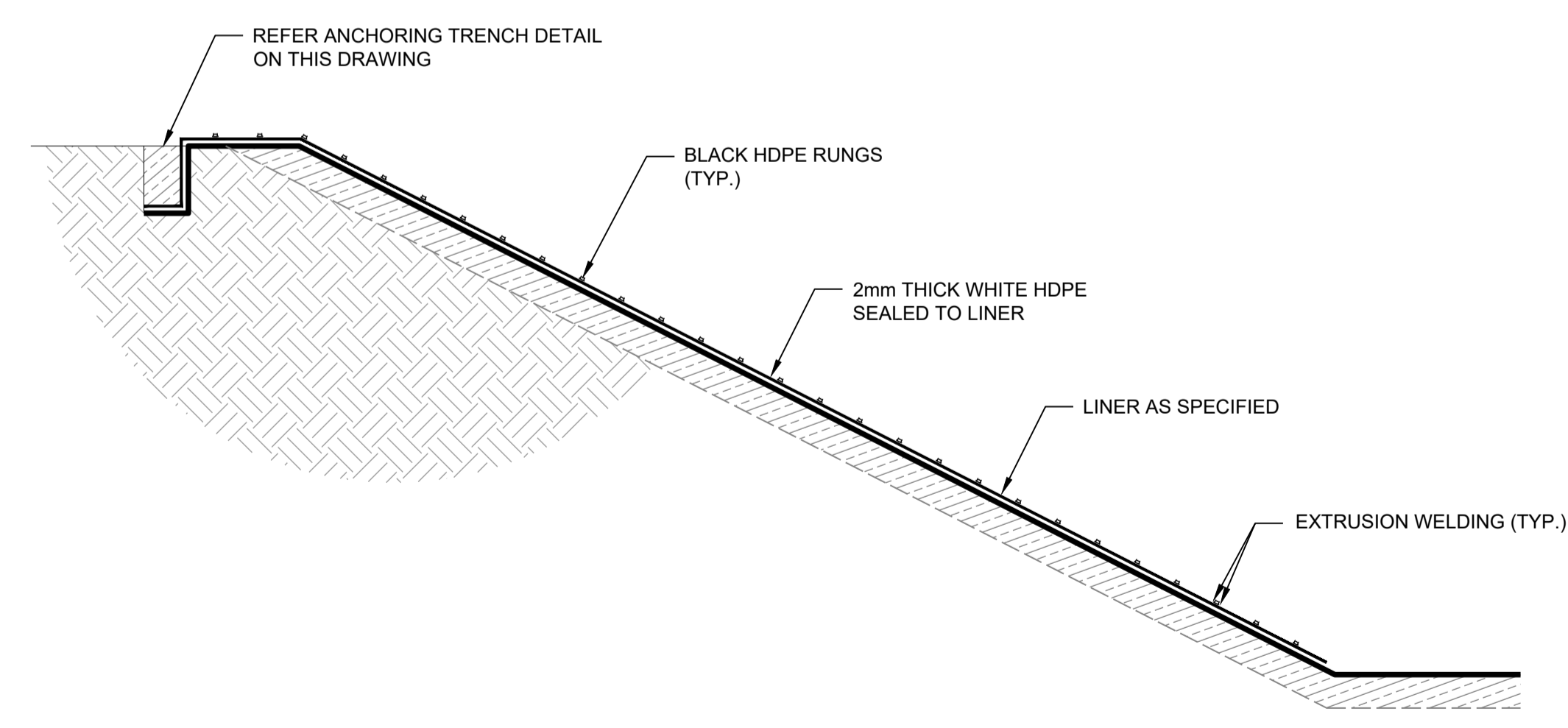
BALLAST TUBE
TYPICAL DETAIL
NOT TO SCALE



SAFETY LADDER
TYPICAL PLAN VIEW
NOT TO SCALE



EMERGENCY LIFEBOUY
TYPICAL INSTALLATION DETAIL
SCALE 1:20



SAFETY LADDER
TYPICAL ELEVATION VIEW DETAIL
NOT TO SCALE

Drawing file: 17639-202001-TVC-DAMS.dwg - Plotted at: 20/09/2025 1:38:11 PM

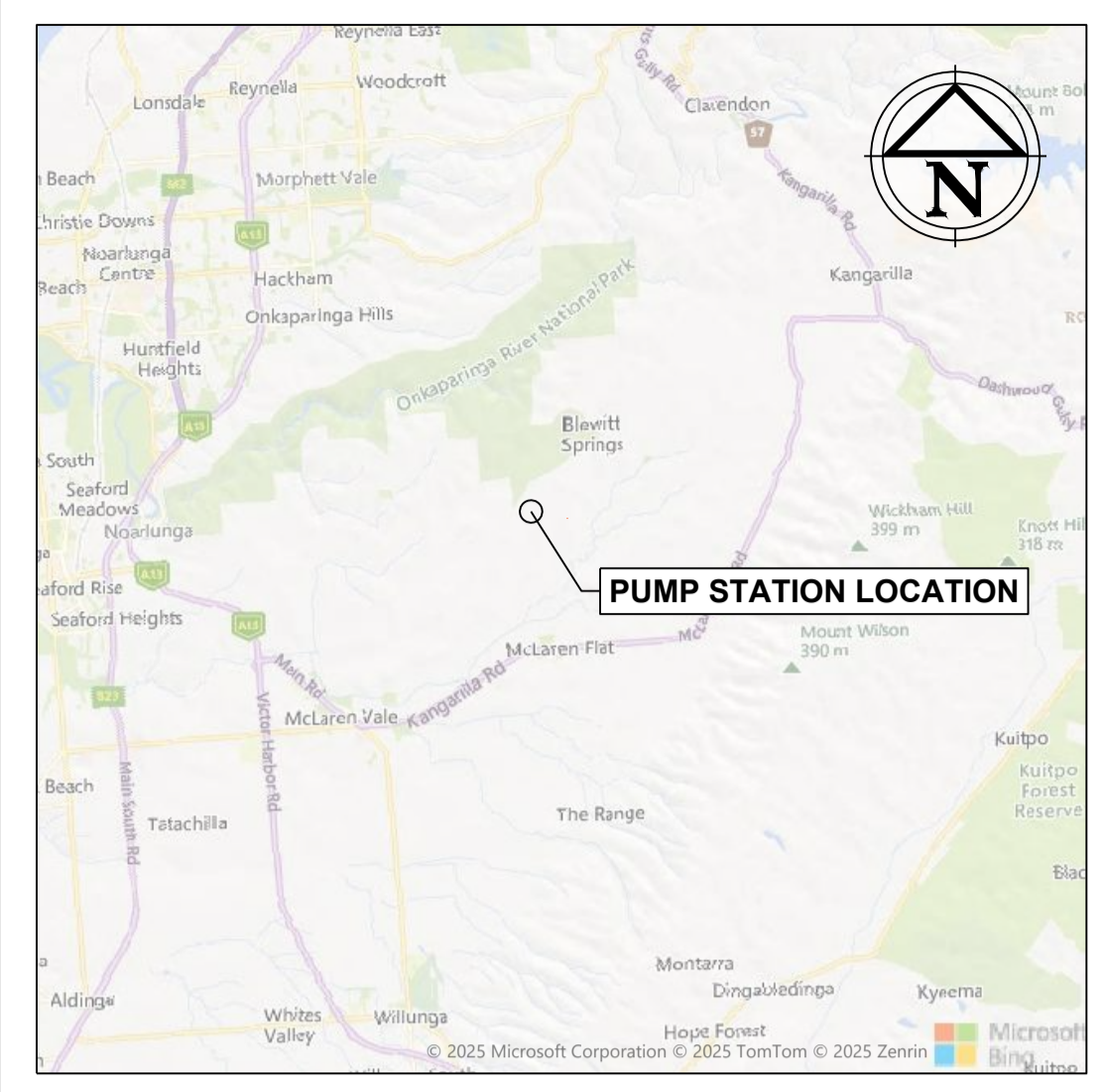
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	MG	FOR APPROVAL				
C	29/08/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 30/09/25	REF MARK:	

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

pinion
ADVISORY

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	INSTALLATION DETAILS LINER & APPURTENANCES		
PROJECT REF:	17639	SHEET No.:	253
REV:			D



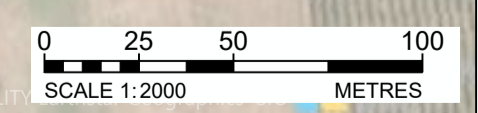
LOCATION PLAN
SCALE 1:150,000

LEGEND

	PROPOSED DAM OUTLINE
	PROPERTY BOUNDARY
	PUMP STATION SHED

NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

KEY PLAN
SCALE 1:2000



REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	02/10/25	MG	FOR TENDER				
C	29/06/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:2000	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 10/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 10/09/25	COORDINATE SYSTEM: MGA ZONE 54 , GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		REF MARK:		

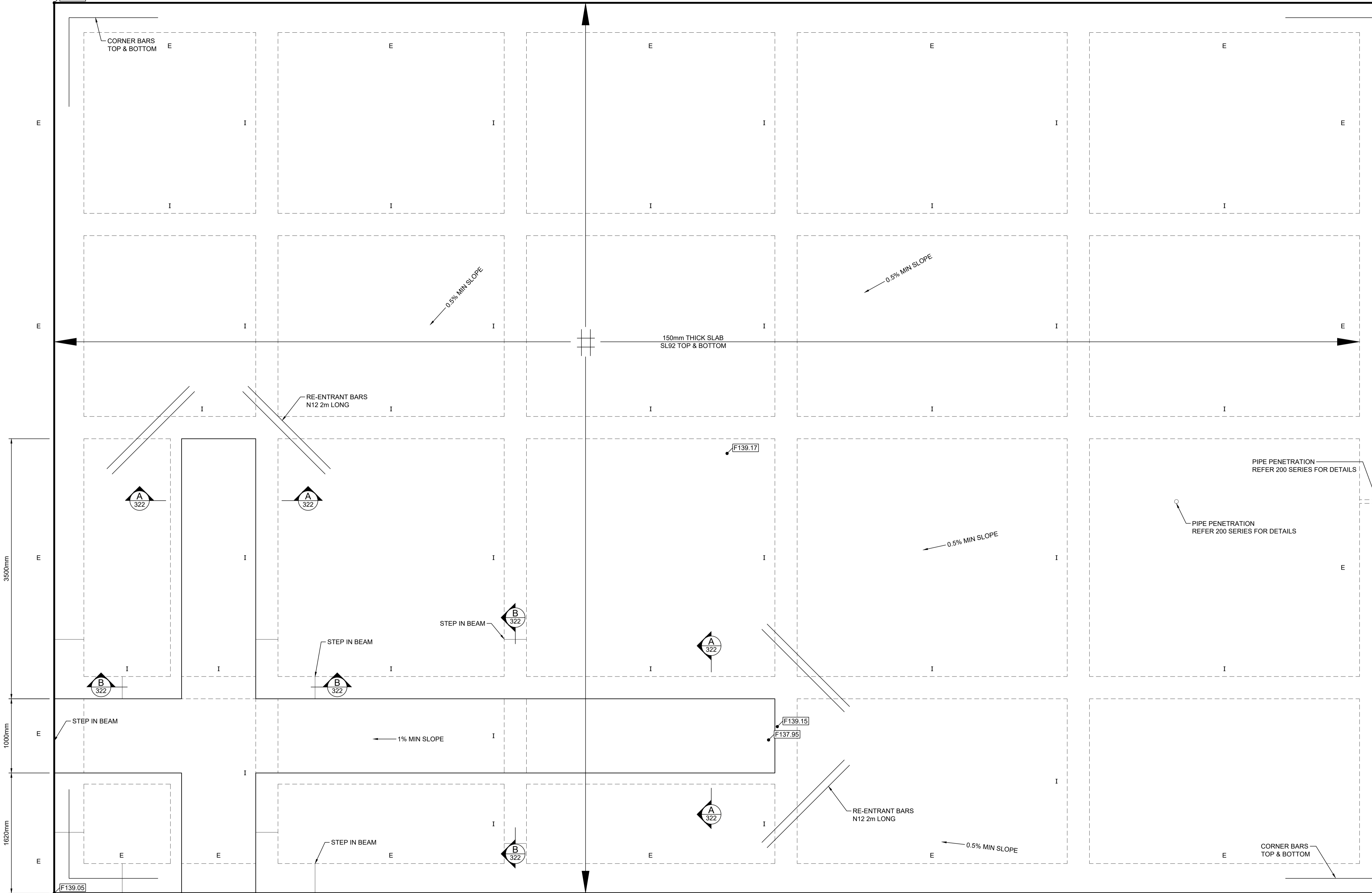
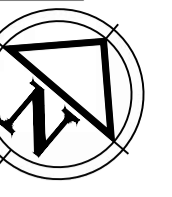
1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT: WILLUNGA BASIN WATER		
PROJECT: BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE: OVERALL PLANS LOCATION & KEY PLAN		
PROJECT REF: 17639	SHEET No.: 311	REV: D

Drawing file: 17639-3000-PUMP STATION.dwg - Plotted at: 10/09/2025 3:35:11 PM

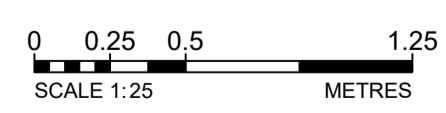
F139.14

F139.32



PLAN VIEW
SCALE 1:25

BEAM						
TYPE	DEFINITION	WIDTH (mm)	DEPTH (mm)	TOP	BOTTOM	LIGATURES
E	EXTERNAL	400	500	3N12	3N12	W8 @ 750 cts
I	INTERNAL	300	500	3N12	3N12	W8 @ 750 cts



Drawing file: 17639-3000-PLUMB STATION.dwg - Plotted at: 10/09/2025 9:35:11 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	02/10/25	MG	FOR TENDER				
C	29/06/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: **TENDER ISSUE**
NOT FOR CONSTRUCTION

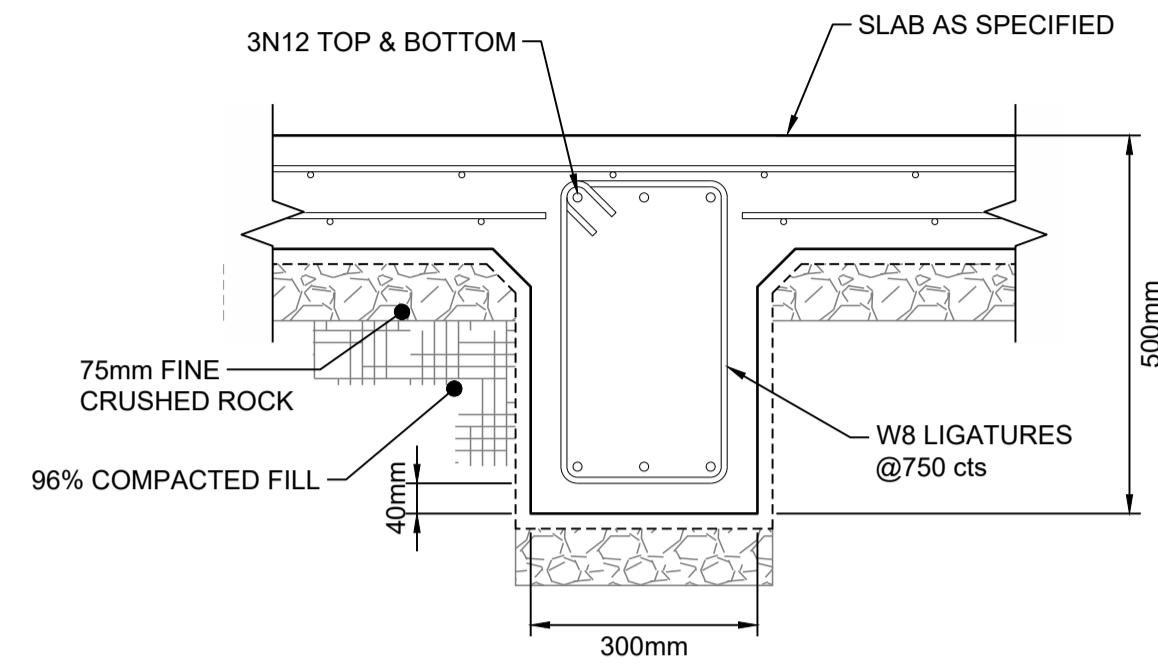
COPYRIGHT:
This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.

DRAFTER: J. TERZIC	SCALE: 1:25	SHEET SIZE: A1
DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
CHECKED: M. ALLEN	DATE: 10/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD
APPROVED: M. ALLEN	DATE: 10/09/25	REF MARK:

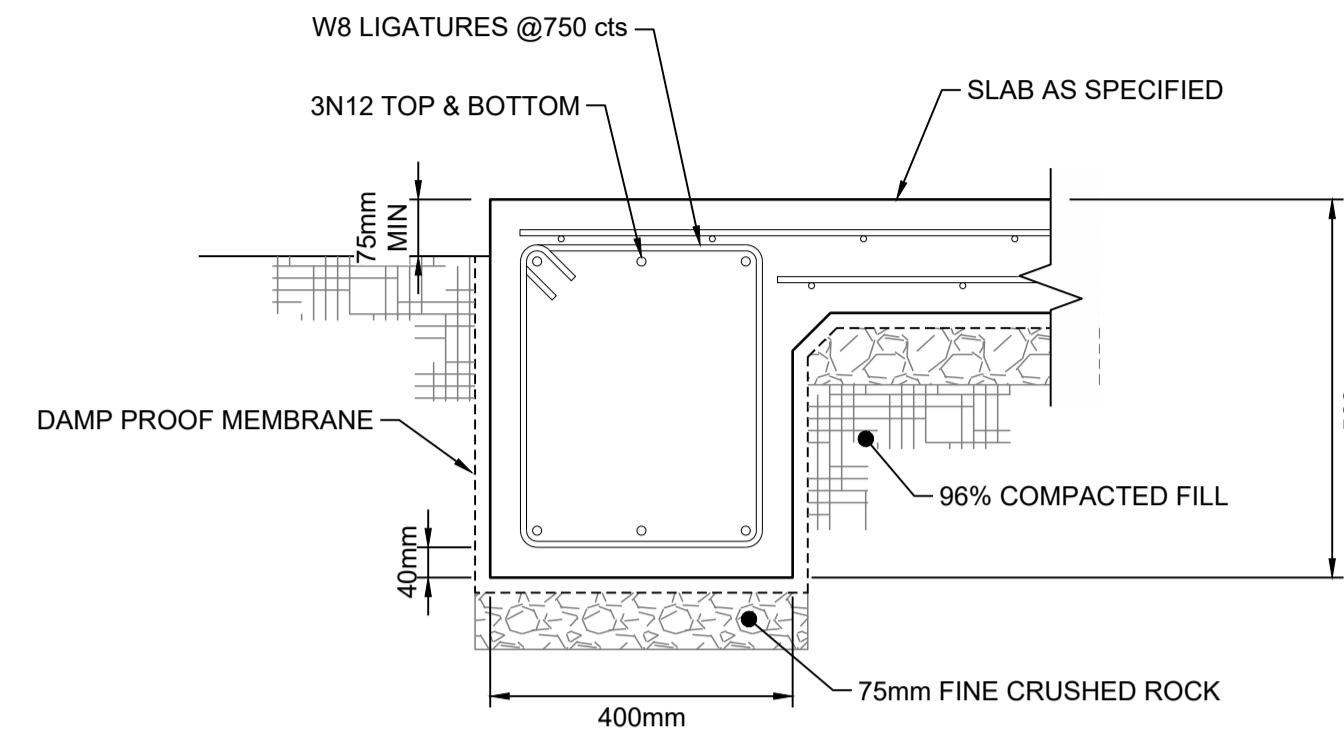


1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

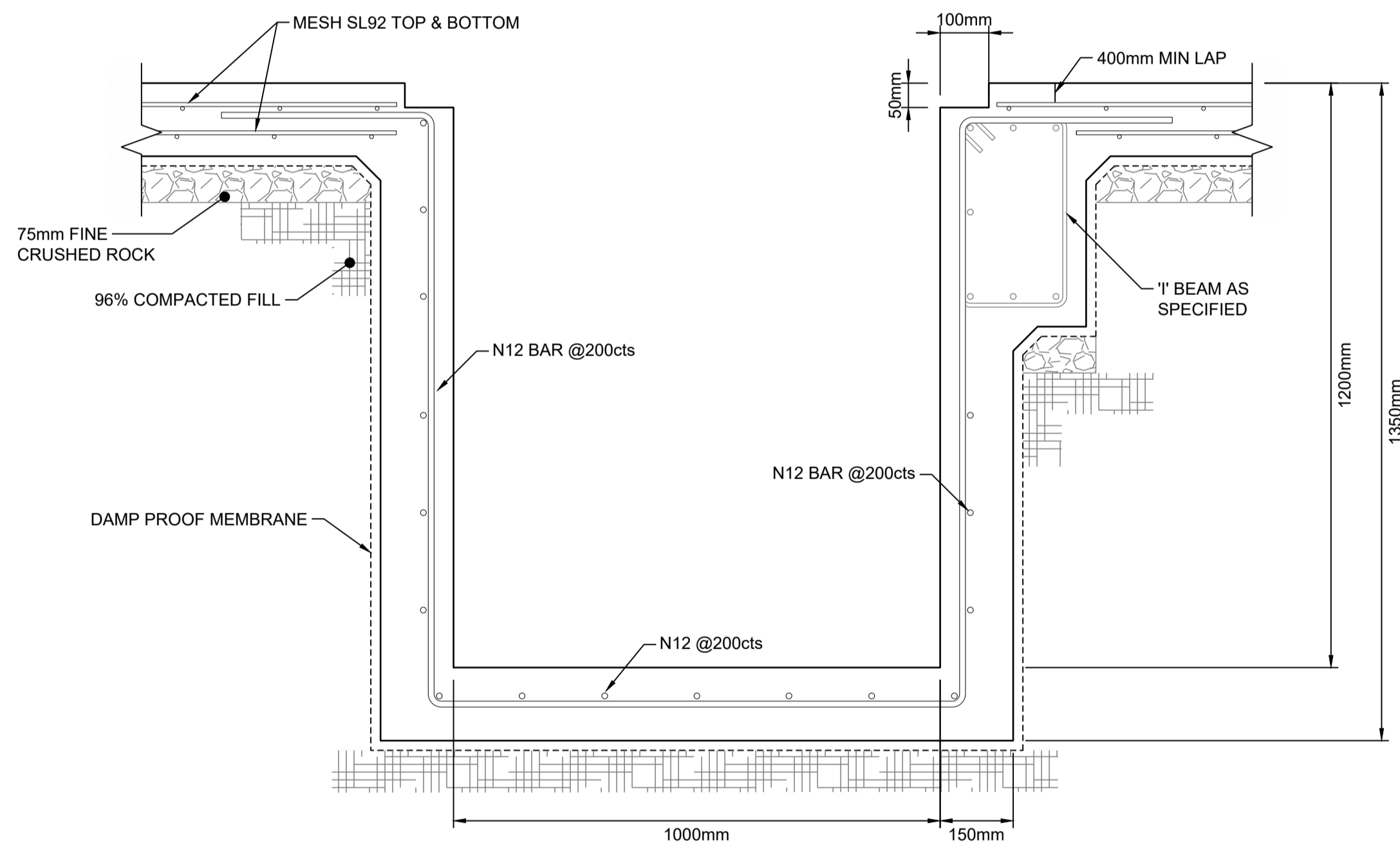
CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	CONCRETE SLAB SHED SLAB - PLAN VIEW		
PROJECT REF:	17639	SHEET No.:	321
REV:			D



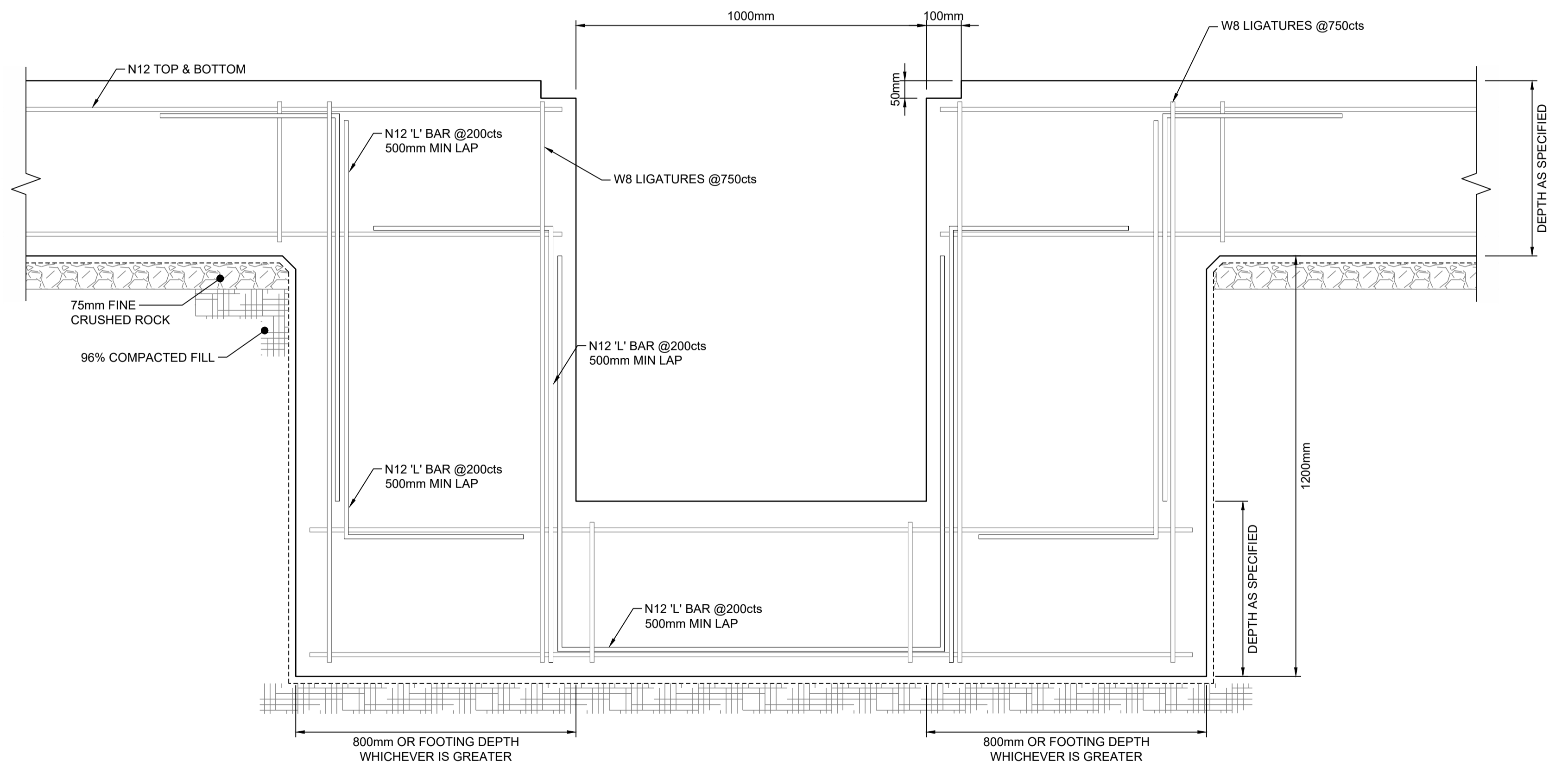
TYPICAL 'I' BEAM
SCALE 1:10



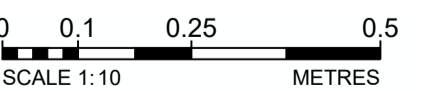
TYPICAL 'E' BEAM
SCALE 1:10



TYPICAL TRENCH CROSS SECTION (A)
SCALE 1:10



TYPICAL STEP-IN FOOTING BEAM (B)
SCALE 1:10



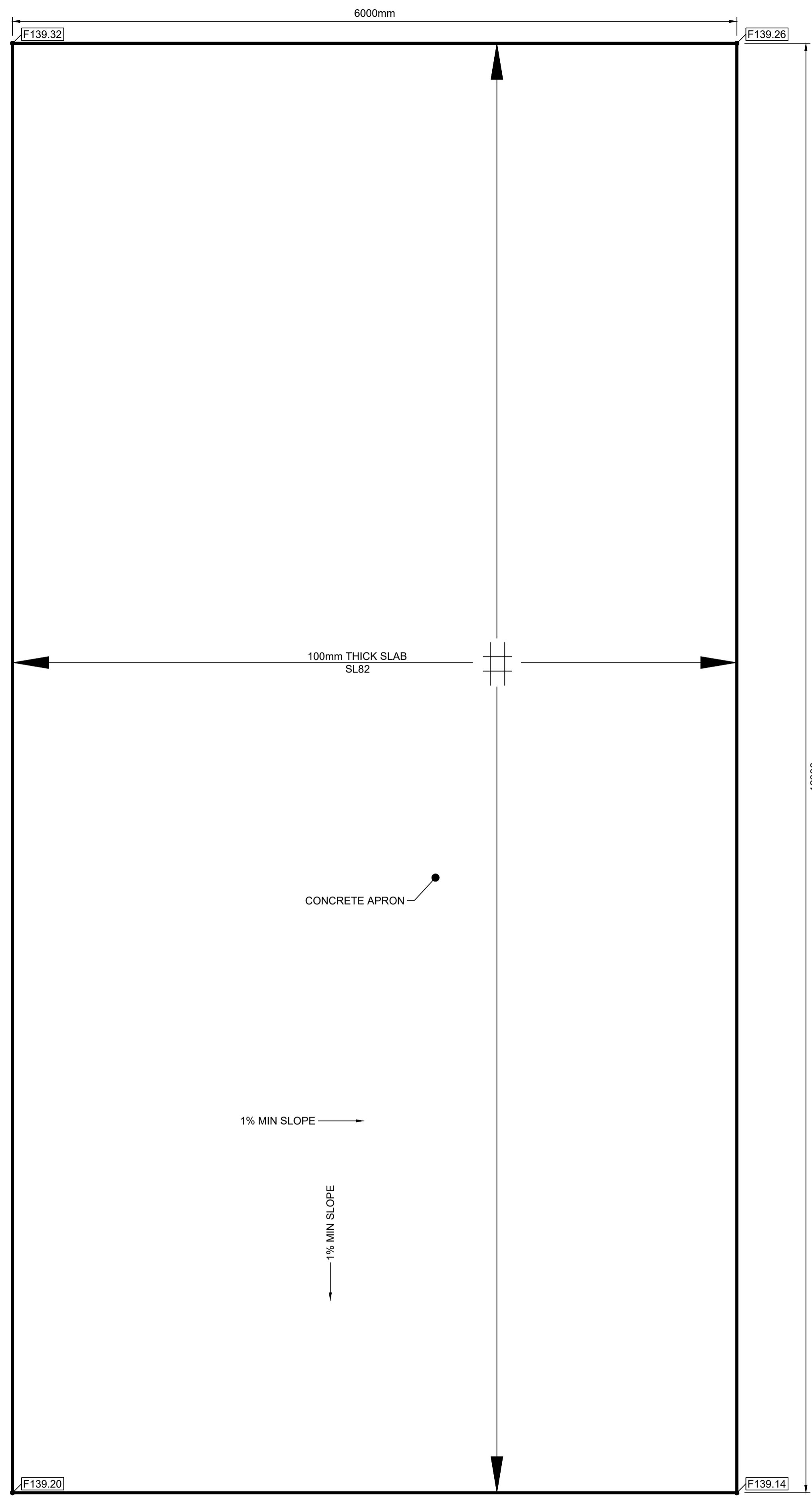
Drawing file: 17639-3000-01-Footing Station.dwg - Plotted at: 10/09/2025 9:35:11 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	02/10/25	MG	FOR TENDER				
C	29/06/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

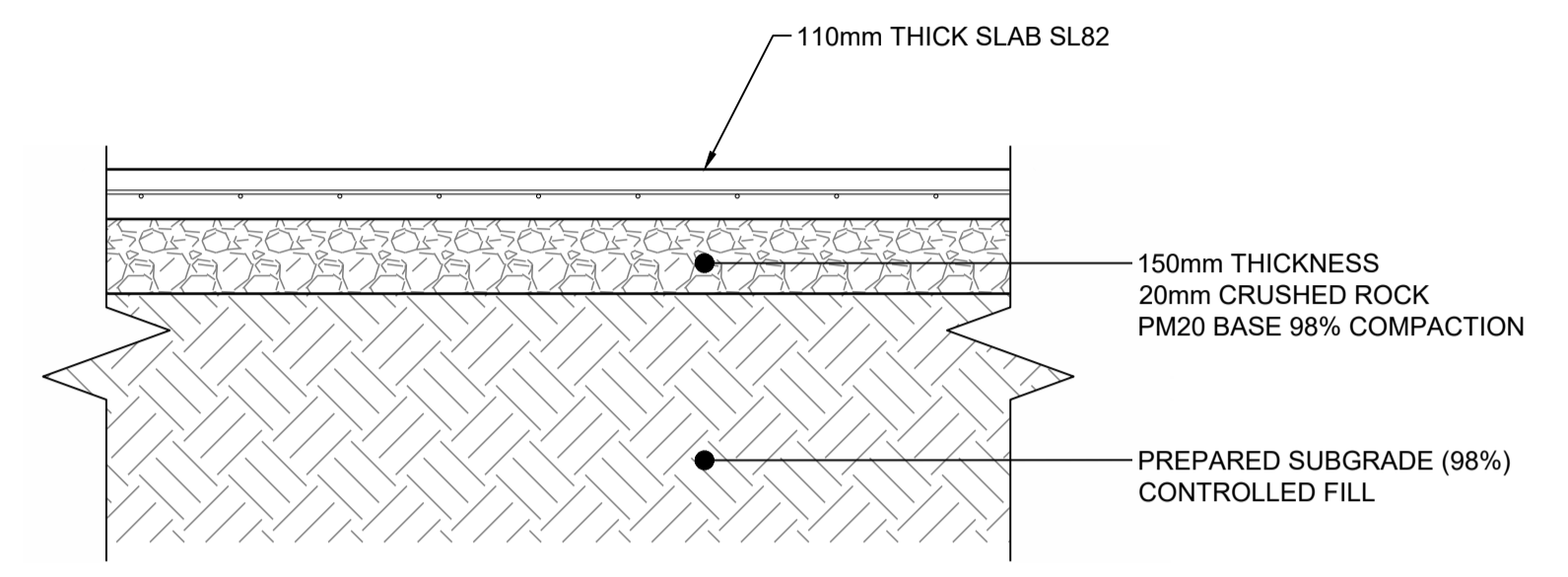
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:10	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 10/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD
APPROVED: M. ALLEN		DATE: 10/09/25	REF MARK:	


 1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

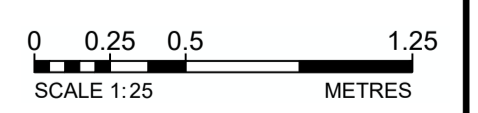
CLIENT: WILLUNGA BASIN WATER	PROJECT: BLEWITT SPRINGS STORAGE EXPANSION
SHEET TITLE: CONCRETE SLAB SHED SLAB - FOOTING TYPICAL DETAILS	
PROJECT REF: 17639	SHEET No.: 322
REV: D	



PLAN VIEW
SCALE 1:25



TYPICAL APRON SLAB CROSS SECTION
SCALE 1:15



Drawing file: 17639-3000-PLUMB STATION.dwg - Plotted at: 10/09/25 3:35:11 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	02/10/25	MG	FOR TENDER				
C	29/06/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS:
TENDER ISSUE
NOT FOR CONSTRUCTION

COPYRIGHT:
This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission.
The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.

DRAFTER:
J. TERZIC

DESIGNER:
J. TERZIC

CHECKED:
M. ALLEN

APPROVED:
M. ALLEN

DATE:
10/09/25

DATE:
10/09/25

DATE:
10/09/25

SCALE:
Custom

SHEET SIZE:
A1

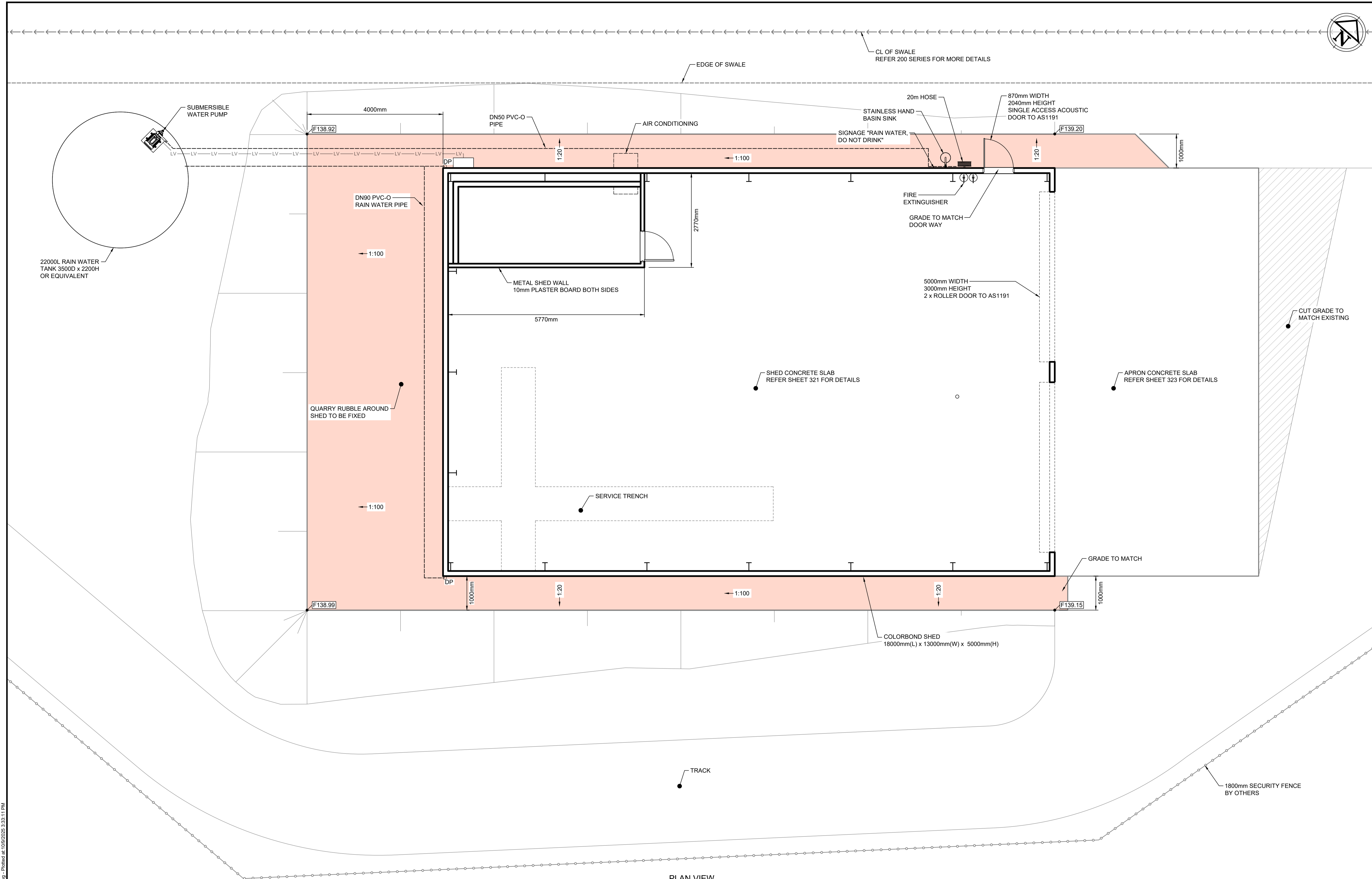
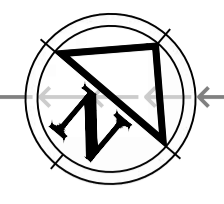
UNITS:
ALL UNITS ARE IN METRES U.N.O.

COORDINATE SYSTEM:
MGA ZONE 54 , GDA 94
ALL LEVELS ARE TO AHD

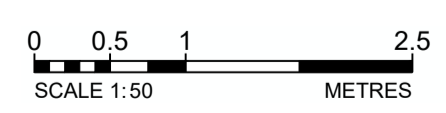
REF MARK:

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	CONCRETE SLAB APRON SLAB - PLAN VIEW & TYPICAL CROSS SECTION		
PROJECT REF:	17639	SHEET No.:	323
REV:			D



PLAN VIEW
SCALE 1:50



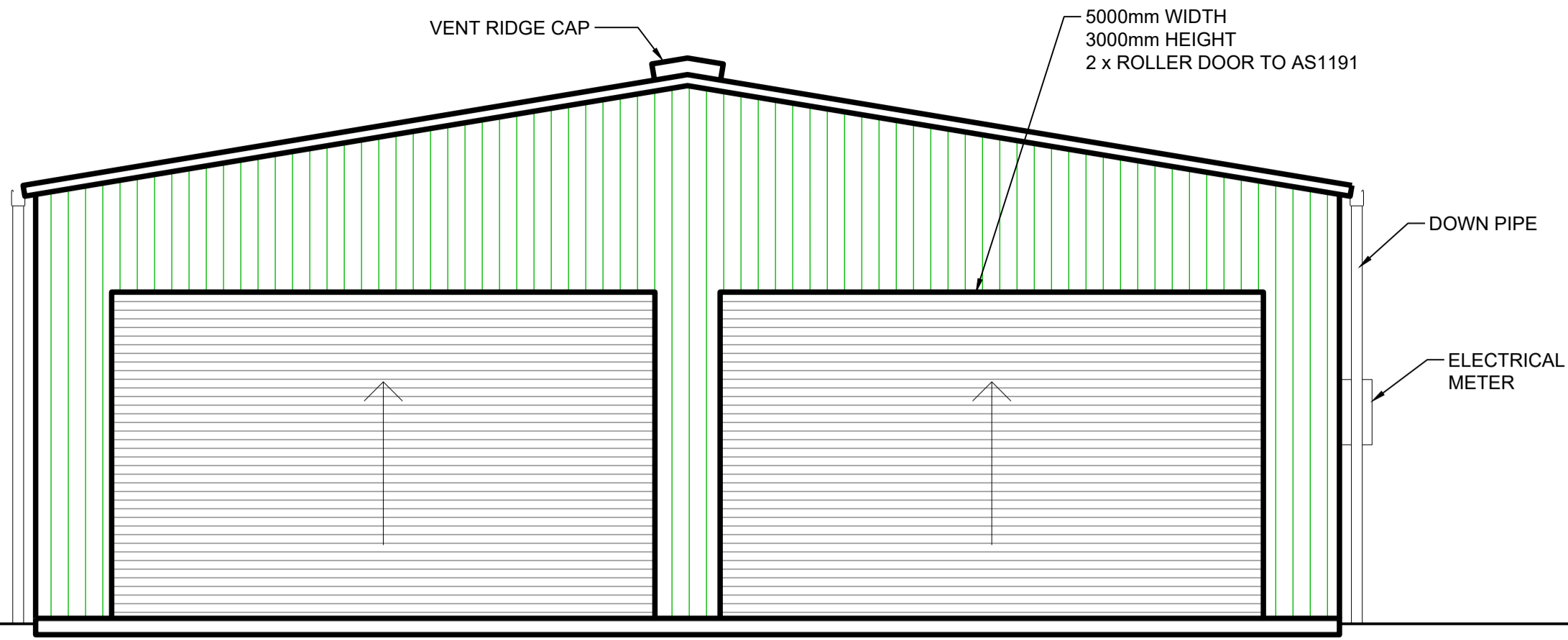
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	02/10/25	MG	FOR TENDER				
C	29/06/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:50	SHEET SIZE: A1
CHECKED: M. ALLEN		DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
APPROVED: M. ALLEN		DATE: 10/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
<small>COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.</small>		DATE: 10/09/25	REF MARK:	

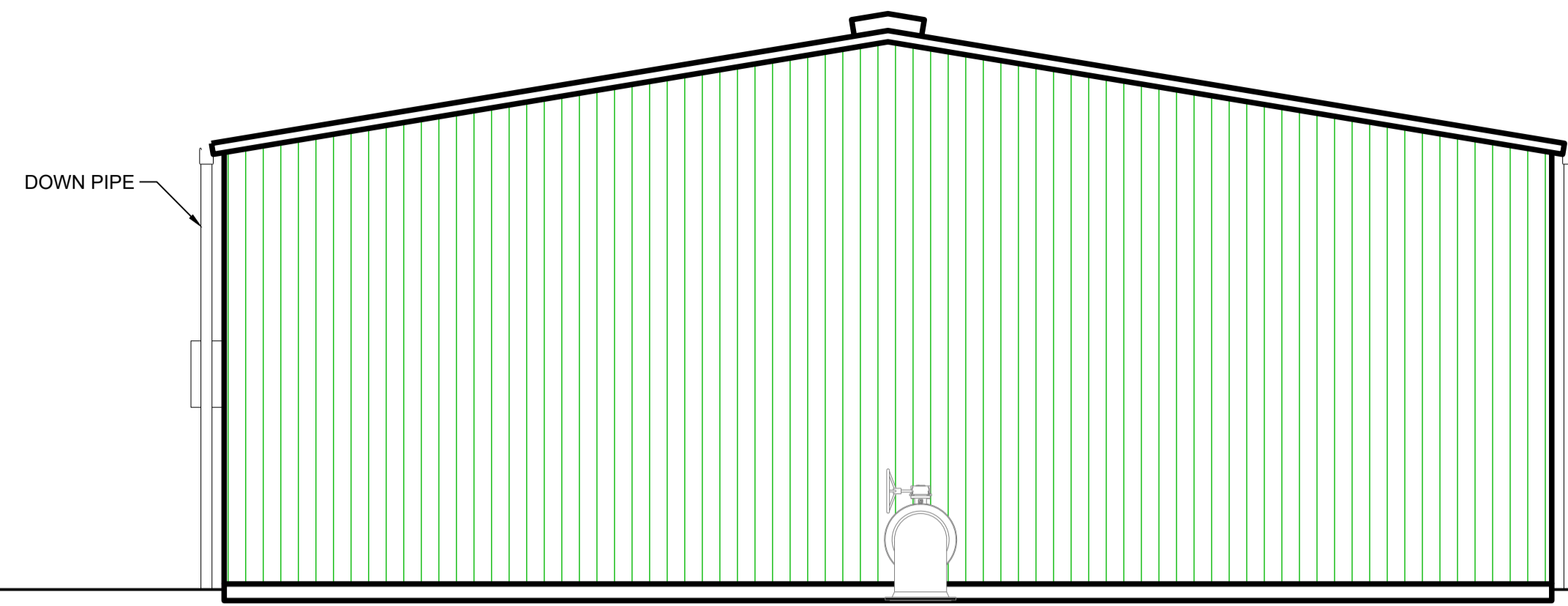
1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PUMP STATION SHED PLAN VIEW		
PROJECT REF:	17639	SHEET No.:	331
REV:			D

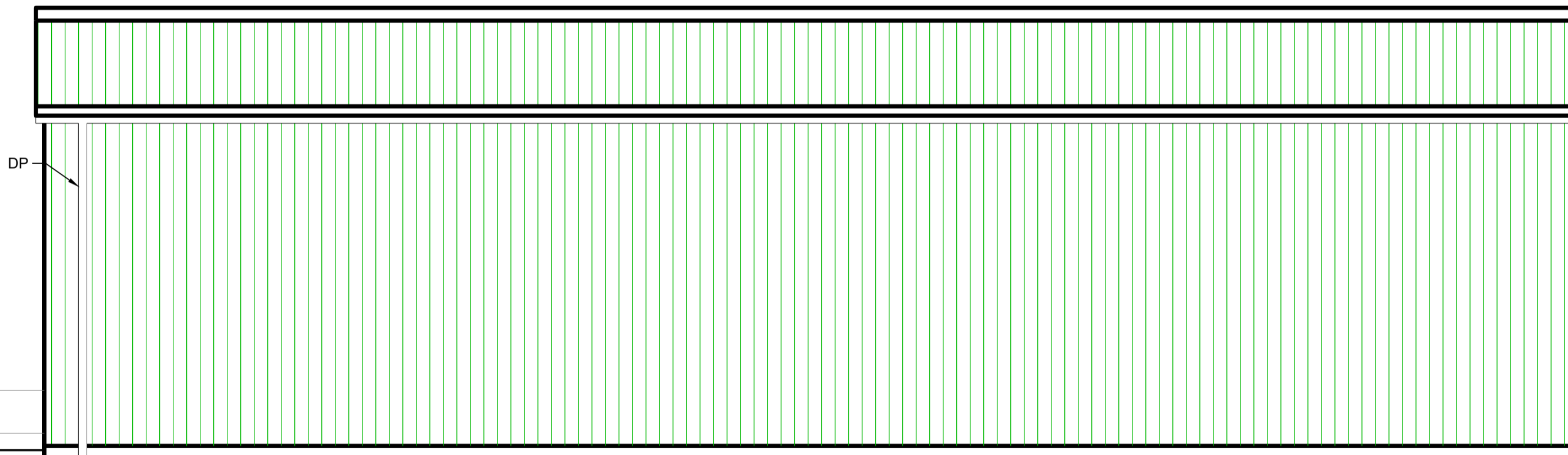
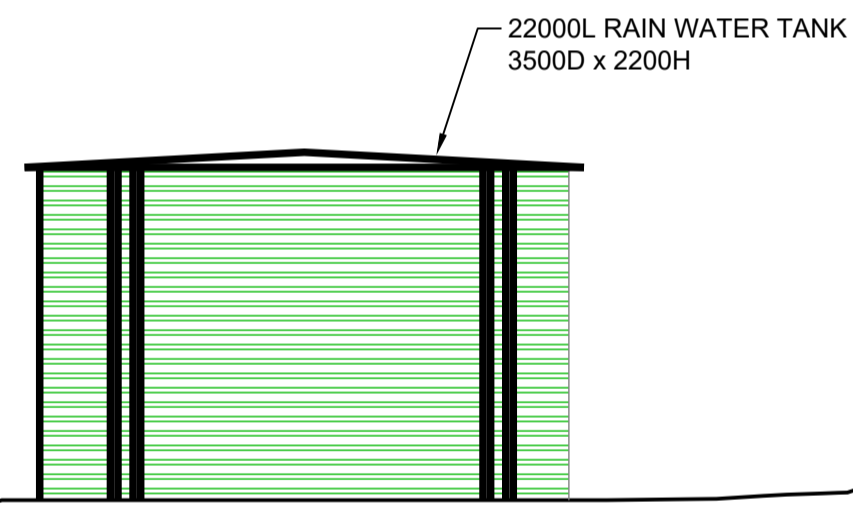
Drawing file: 17639-3000-PUMP STATION.dwg - Plotted at: 10/09/2025 9:33:11 PM



ELEVATION EAST

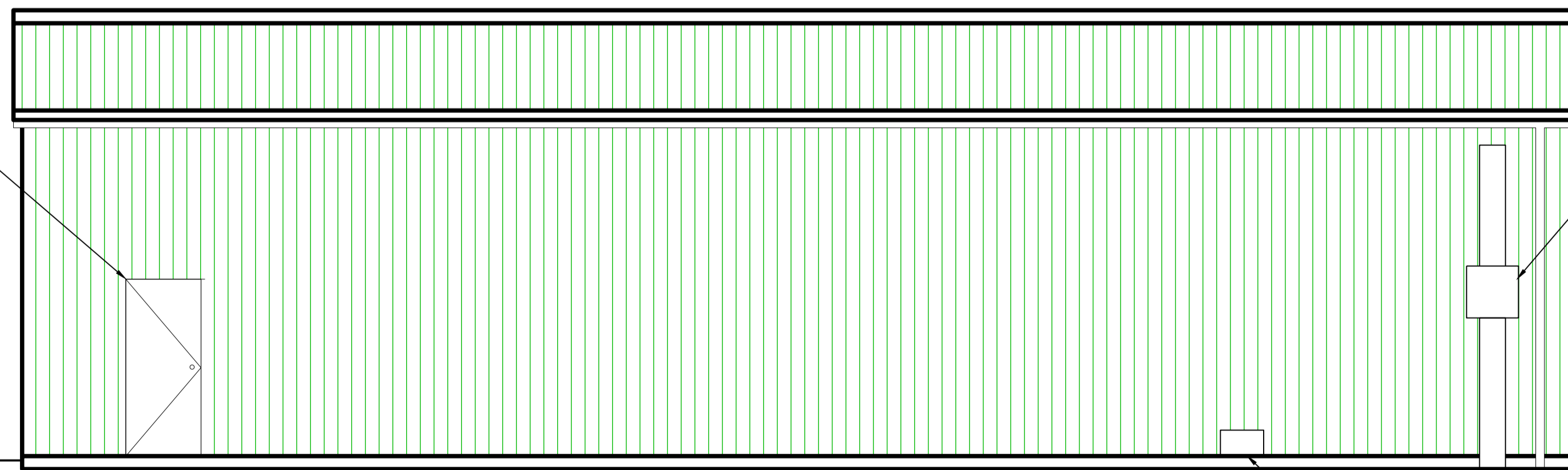


ELEVATION WEST



ELEVATION SOUTH

870mm WIDTH
2040mm HEIGHT
SINGLE ACCESS ACOUSTIC
DOOR TO AS1191



ELEVATION NORTH

Drawing file: 17639-3000-PUMP STATION.dwg - Plotted at: 10/09/25 9:35:11 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	02/10/25	MG	FOR TENDER				
C	29/06/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: **TENDER ISSUE**
NOT FOR CONSTRUCTION

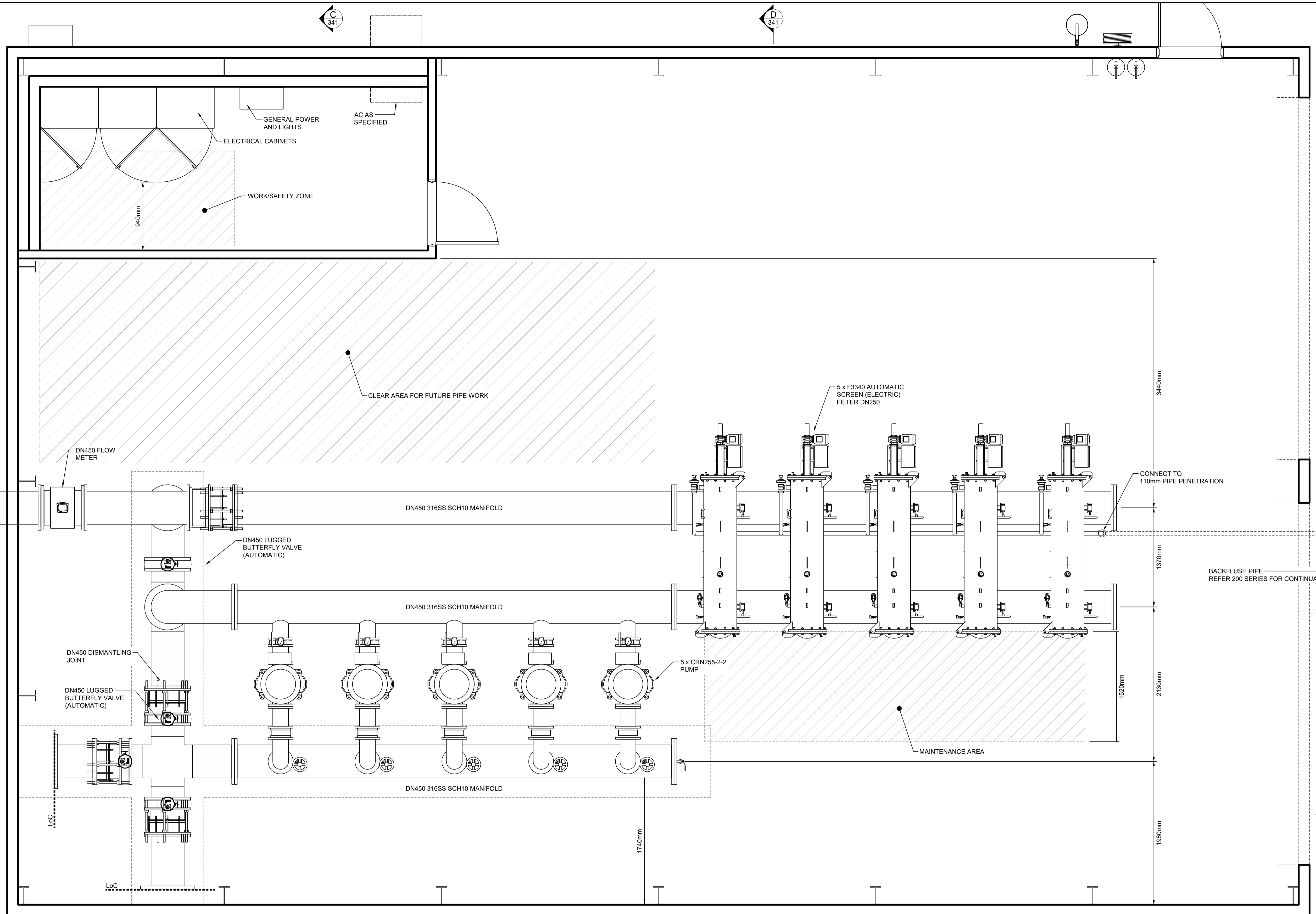
COPYRIGHT:
This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.

DRAFTER: J. TERZIC	SCALE:	SHEET SIZE: A1
DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
CHECKED: M. ALLEN	DATE: 10/09/25	COORDINATE SYSTEM: MGA ZONE 54 , GDA 94 ALL LEVELS ARE TO AHD
APPROVED: M. ALLEN	DATE: 10/09/25	REF MARK:

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PUMP STATION SHED ELEVATIONS		
PROJECT REF:	17639	SHEET No.:	332
REV:			D

Drawing file: 17639-3000-PUMP STATION.dwg - Plotted at: 10/09/2025 3:35:11 PM



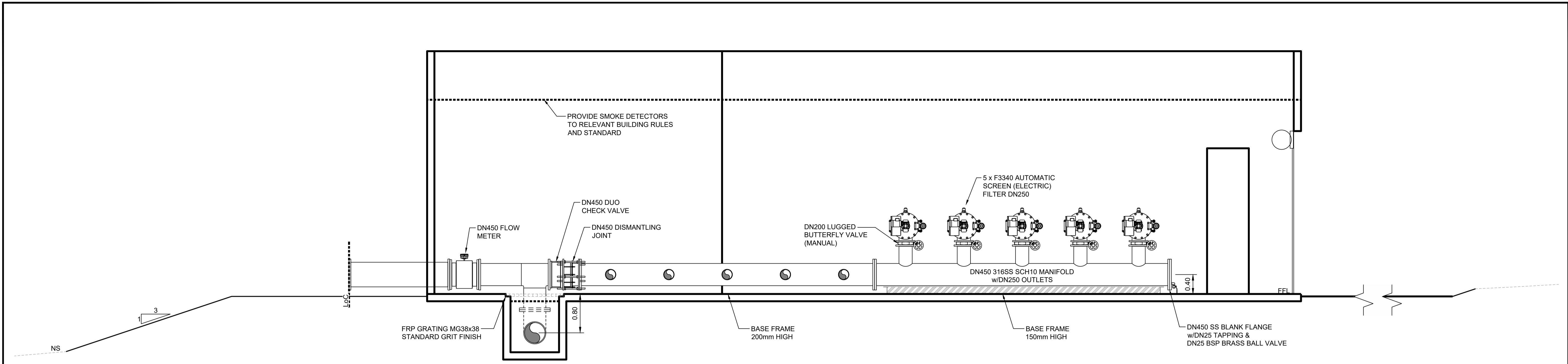
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	02/10/25	MG	FOR TENDER				
C	29/06/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:25	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 10/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 10/09/25	COORDINATE SYSTEM: MGA ZONE 54 , GDA 94 ALL LEVELS ARE TO AHD	
<small>COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.</small>		REF MARK:		

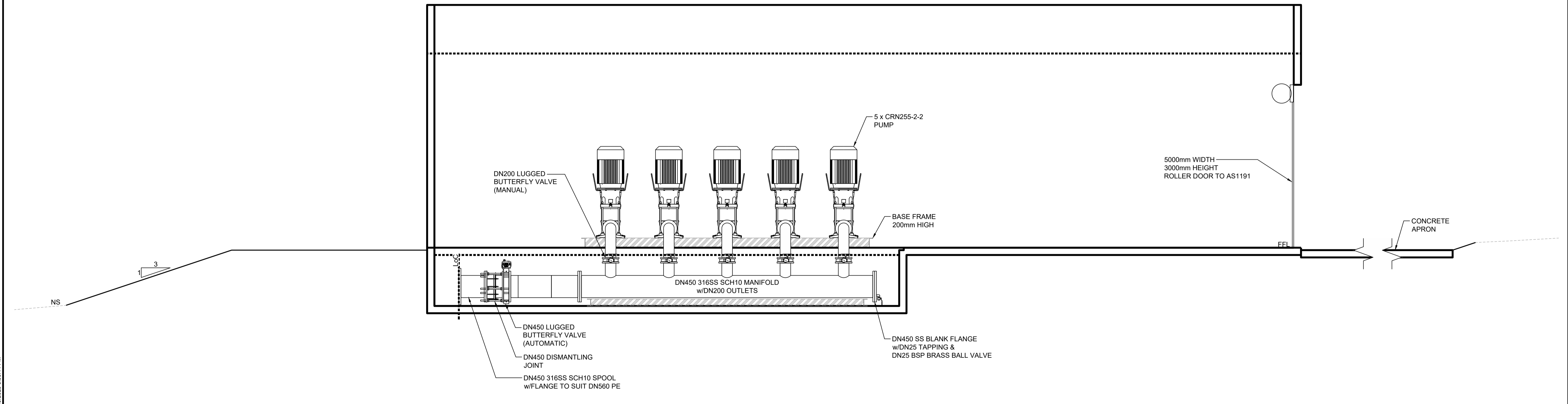


1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT: WILLUNGA BASIN WATER		
PROJECT: BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE: MECHANICAL INSTALLATION PLAN VIEW		
PROJECT REF: 17639	SHEET No.: 341	REV: D



SECTION A
SCALE 1:40



SECTION B
SCALE 1:40



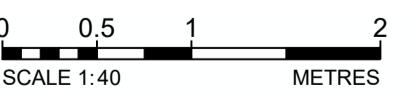
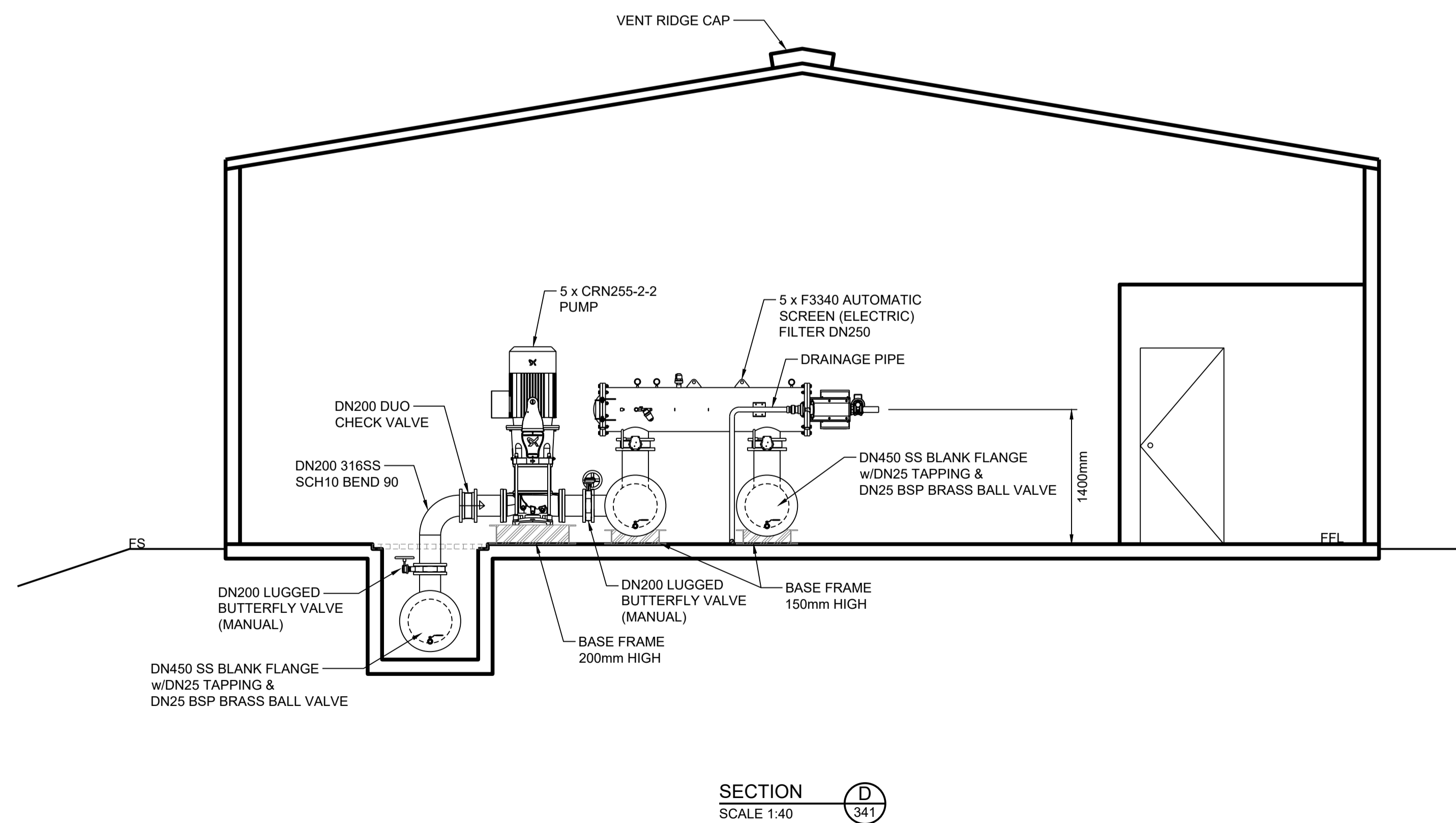
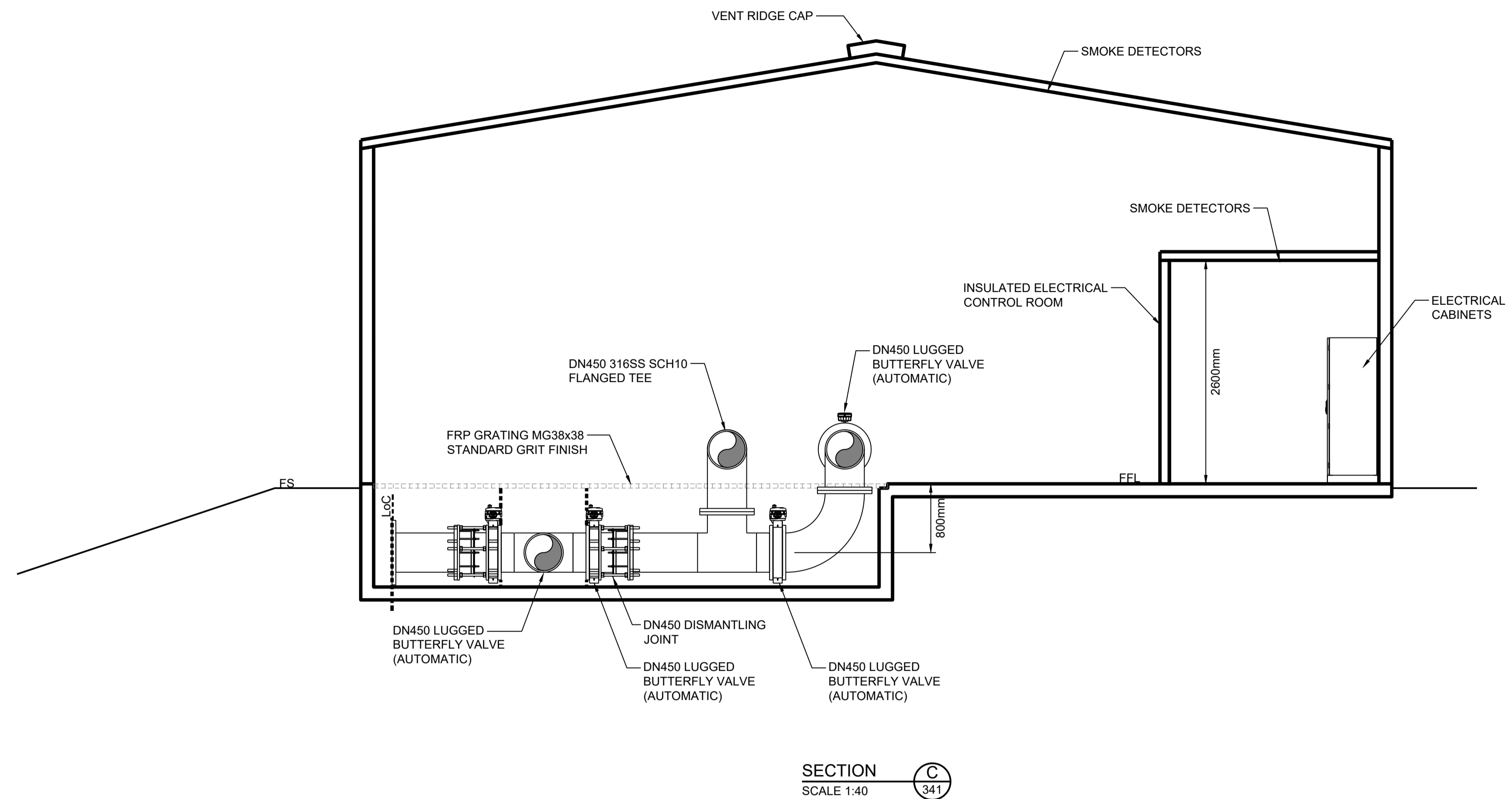
Drawing file: 17639-3000-PUMP STATION.dwg - Plotted at: 10/09/25 3:33:11 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	02/10/25	MG	FOR TENDER				
C	29/06/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:40	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 10/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 10/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
<small>COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.</small>		REF MARK:		

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT: WILLUNGA BASIN WATER		
PROJECT: BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE: MECHANICAL INSTALLATION SECTIONS A & B		
PROJECT REF: 17639	SHEET No.: 342	REV: D



Drawing file: 17639-3000-PUMP STATION.dwg - Plotted at: 10/09/25 3:33:11 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	02/10/25	MG	FOR TENDER				
C	29/06/25	MG	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:40	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 10/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD
APPROVED: M. ALLEN		DATE: 10/09/25	REF MARK:	


 1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	MECHANICAL INSTALLATION SECTIONS C & D		
PROJECT REF:	17639	SHEET No.:	343
REV:			D

WILLUNGA BASIN WATER BLEWITT SPRINGS STORAGE EXPANSION

DRAWING LIST

DWG No.	DWG TITLE	DWG No.	DWG TITLE
OVERALL		PIPELINE - 100 SERIES	
000 SERIES (GENERAL NOTES, ETC.)		110 SERIES (PLANS & PROFILE)	
001	DRAWING LIST	110	LOCATION & KEY PLAN
002	GENERAL NOTES	111	KAYS RD PIPELINE (FROM TO AMERY RD)
		112	KAYS RD PIPELINE (TO WHITINGS RD)
		113	WHITINGS RD PIPELINE
		114	VINEYARD SUPPLY PIPE (TO IRRIGATION MAIN)
		115	LITTLE RD PIPELINE (FROM BAYLISS RD)
		116	LITTLE RD PIPELINE (CROSSING CALIFORNIA RD)
		117	LITTLE RD PIPELINE (CROSSING WILLUNGA CREEK)
		118	LITTLE RD PIPELINE (TO EX. PUMP STATION)
		120 SERIES (PIPELINE SCHEMATIC CONNECTION DETAILS)	
		121	KAYS RD & WHITINGS RD
		122	LITTLE RD
		130 SERIES (TYPICAL INSTALLATION DETAILS)	
		131	PIPE TRENCH & BORE
		132	SCOUR VALVE & PIT
		133	AIR VALVE & ISOLATION VALVE
		134	PE TO PVC CONNECTION
		135	THRUST BLOCKS
		140 SERIES (CROSSING PLAN & PROFILE)	
		141	WILLUNGA CREEK UNDERBORE
		142	VICTOR HARBOR RD UNDERBORE
		143	CALIFORNIA RD UNDERBORE
		DAM - 200 SERIES	
		210 SERIES (OVERALL PLANS)	
		211	LOCATION & KEY PLAN
		212	BULK EARTHWORKS PLAN
		220 SERIES (DETAILED PLANS)	
		221	SITWORKS PLAN - SOUTH DAM
		222	SITWORKS PLAN - NORTH DAM
		223	PIPEWORK PLAN - SOUTH DAM
		224	PIPEWORK PLAN - NORTH DAM
		225	ELECTRICAL/CONDUITS PLAN
		226	ENLARGED PLAN - INLET/OUTLET & PUMP STATION
		227	ENLARGED PLAN - PUMP STATION
		228	MECHANICAL PLAN - PUMP STATION
		230 SERIES (SECTIONS)	
		231	BULK EARTHWORKS - SECTIONS A, B & C
		232	SIGHTLINE ANALYSIS - SECTIONS D, E, F, G, H & I
		233	SIGHTLINE ANALYSIS - SECTIONS J & K
		234	MECHANICAL - SECTIONS L, M & N & DETAILS 'A', 'B' & 'C'
		240 SERIES (TYPICAL SECTIONS)	
		241	TYPICAL WALL CROSS SECTIONS
		242	TYPICAL TRACK & SWALE SECTIONS
		243	TYPICAL PIPE THROUGH WALL
		244	TYPICAL PIPE THROUGH WALL
		245	TYPICAL RAMP DETAILS
		250 SERIES (INSTALLATIONS DETAILS)	
		251	PIPELINE/TRENCH CROSS SECTIONS
		252	INLET/OUTLET PIT
		253	LINER & APPURTENANCES
		254	MISCELLANEOUS
		PUMP STATION - 300 SERIES	
		310 SERIES (OVERALL PLANS)	
		311	LOCATION & KEY PLAN
		320 SERIES (CONCRETE SLAB)	
		321	SHED SLAB - PLAN VIEW
		322	SHED SLAB - FOOTING TYPICAL DETAILS
		323	APRON SLAB - PLAN VIEW & TYPICAL CROSS SECTION
		331 SERIES (PUMP STATION SHED)	
		331	PLAN VIEW
		332	ELEVATIONS
		340 SERIES (MECHANICAL INSTALLATIONS)	
		341	PLAN VIEW
		342	SECTION A & B
		343	SECTION C & D
		DIAGRAMS - 400 SERIES	
		401	PIPE FLOW DIAGRAM

Drawing file: 17639-1000-PIPELINE-IT.dwg - Printed at: 30/09/2024 2:38 PM



1300 746 466
pinionadvisory.com
hello@pinionadvisory.com
© 2024 Pinion Advisory Pty Ltd

TENDER ISSUE
NOT FOR CONSTRUCTION

PROJECT REF: 17639	SHEET No.: 001	REV: D
-----------------------	-------------------	-----------

GENERAL NOTES

- Contractor must verify all dimensions and existing levels on site prior to commencement of works.
- Make smooth connection with existing works.

SURVEY AND SERVICES INFORMATION

- Datum of levels: A.H.D Australian Height Datum.
- Coordinate system: Map Grid of Australia Zone 54
- Existing Ground Survey by: WEBER FRANKIW SURVEYORS
Project Ref: 5495-06 MGA 94.dwg
- Existing service data may not be up-to-date or accurate. Contractor to confirm location, inverts and size of all services on site prior to construction of any works.
- Contractors responsibility to avoid services during construction. Any damages with existing are to be the responsibility of the Contractor to repair.

BOUNDARY AND EASEMENT NOTE

- Title Volume CT5667 Folio 407
- The property boundary and easement locations shown on Pinion's drawings are approximate only and must be confirmed prior to construction. Pinion will accept no liabilities for boundary inaccuracies.

EROSION AND SEDIMENT CONTROL NOTES

- All work shall be generally carried out in accordance with:
 - Local authority requirements;
 - EPA - Pollution control manual for urban stormwater; and
 - SA Government - Department of Infrastructure and Transport - Protecting Waterways Guidelines
- Maintain all erosion and sediment control devices to the satisfaction of the superintendent and the local authority.
- Protect all stockpiles of materials from scour and erosion. Do not stockpile loose material in roadways, or in watercourses if avoidable.
- All soil and water control measures are to be put back in place at the end of each working day, and modified to best suit site conditions.
- Control storm water from upstream of the site such that it does not enter the disturbed site or any excavation.
- Clean out all erosion and sediment control devices after each rain event.
- Prior to commencement of excavation the Construction Environmental Management Plan (CEMP) soil management devices must be installed.
 - Construct silt fences below the site and across all potential runoff sites
 - Construct measures to divert upstream flow into existing storm water system.
- All vehicles leaving the site shall be cleaned and inspected before leaving

SAFETY IN DESIGN NOTES

- EXISTING SERVICES**
 - Contractor to be aware existing services are located within the site.
- Location of all services to be verified by contractor prior to commencing works. Contractor to confirm with relevant authority regarding measures to be taken to ensure services are protected or procedures are in place to demolish and/or relocate.
- Contractor to maintain minimum 600mm clearance to any existing services and minimum 3000mm clearance to any structure unless otherwise specified in the project drawings or approved by the project engineer.
- EXISTING TREES**
 - Contractor to retain and protect all trees in accordance with AS4970, unless written approval by Superintendent. To prevent damage to trees and/or personnel, site works to be carried out as far as practically possible from existing trees. Advice to be sought from Arborist and/or Landscape Architect on measures required to protect trees. If removal is required, a report must be provided by Arborist prior to any clearing being taken.
 - All tree stumps to be ground out where trees removed by others.
- GROUND CONDITIONS**
 - Contractor to be aware of the site geotechnical conditions. Refer to Geotechnical Report for details.
 - Contractor to notify Pinion Advisory of any changes to the site conditions that are not show on the drawings prior to installation.
- ROCK**
 - Contractor to be aware rock is expected in close proximity to existing surface level.
 - Contractor to have construction methodologies approved for working around rock strata prior to commencement of cut/ fill operations.
- EXCAVATIONS**
 - Deep excavations due to pump manifold works are required. Contractor to ensure safe working procedures are in place for works.
 - All excavations to be fenced off and batters adequately supported to approval of Geotechnical Inspection and Testing Authority (GITA)
- HAZARDOUS MATERIAL**
 - Contractor to ensure all hazardous materials shall be stored and banded appropriately.
- CONFINED SPACE**
 - Contractor to be aware of potential hazard due to working in confined spaces in pits, trenches and/or tanks. Contractor to provide safe working methods and use appropriate PPE when entering confined spaces.
- MANUAL HANDLING**
 - Contractor to be aware manual handling is required during construction. Contractor to take appropriate measures to ensure manual handling procedures and assessments are in place prior to commencing works.
- WATER POLLUTION**
 - Contractor to ensure all measures taken to prevent pollutants from construction works contaminating surrounding environment per the EMP.
- Site egress contractor to ensure rubble tracks or better to be used to stop silts and mud leaving site.

2. VEHICLE MOVEMENT

- Contractor to supply and comply with traffic management plan and provide adequate site traffic control.

EARTHWORKS & MATERIALS

- Embankments shall be compacted to at least 98% Standard Compaction to AS 1289 5.1.1. Placed in maximum 200mm thick compacted layers.
- Compaction Requirements

Materials / Location	Required Compaction
Clay Liner	98% Standard +/- 1-3% OMC
Fill Foundation (sub grade)	98% Standard +/- 1-3% OMC
Embankment Fill	98% Standard +/- 1-3% OMC
Topsoil	90% Standard
Road base	98% Standard
Trench Fill	98% Standard
- Site shall be stripped of any topsoil, root effected or highly organic materials and wind blown sand. Material shall be stockpiled and re-spread as part of the 300mm minimum thickness for outer embankments and borrow pit reinstatement (if applicable).
- Storage subgrade below clay liner to be proof rolled to 95% standard
- Unsuitable subgrade material below clay liner to be boxed out per superintendents requirements.
- Imported materials shall comply with requirements of specification.
- Rip rap rock shall be placed on bidim A34 geotextile at all dam overflows.

GEOTECHNICAL TESTING

- The contractor shall engage a suitably NATA approved agency to complete all geotechnical testing.
- Level of responsibility to AS3798:

Embankment Fill	Level 1
Clay Liner	Level 2
Topsoil	Level 2
Road base	Level 2
- Testing Method:
 - Compaction Testing to AS 1289 5.1.1
 - Clay Liner & Embankment Fill frequency to AS 3798
 - Pipeline testing frequency to AS 3798
 - Permeability Testing
 - 3 in situ permeability test required, location per superintendents instruction.
- Tolerances:
 - Topsoil thickness 0 to +300mm than specified
 - Clay Liner thickness 0 to +100mm than specified
 - Grades on Plans +_10% provided all water drains
 - Clay Liner FL +_50mm
 - Material / Location Tolerances**

Subgrade Final Trim	+ 0 / -50mm of theoretical level
Sub-Base	+ 0 / -30mm of theoretical level
Base Course	+ 0 / -10mm of theoretical level
Where rock encountered	per Superintendents instruction

CONCRETE

- All workmanship and materials shall be in accordance with AS3600 current edition with amendments except where varied by the contract documents.
- Concrete classes:

The following table of concrete classes shall apply. The slump range specified supersedes the slump tolerance in AS1379.

CLASS	F _c AT MAX. 28 DAYS (MPa)	SIZE OF COARSE AGGREGATE	CEMENT	SLUMP RANGE
N32	32	20mm	GP/GB	80mm MAX.
10 GRADE	10	20mm	GP/GB	20mm MAX.
Stab Sand	5	10mm	GP/GB	120mm MIN.
- Clear concrete cover to reinforcement shall be as follows u.n.o.

slab on ground	- 30mm, top face
	- 50mm, bottom face
all other works, u.n.o.	- 45mm, each face
- Construction joints where not shown shall be located to the approval of the superintendent.
- Reinforcement is represented diagrammatically. It is not necessarily shown in true projection.
- Splices in reinforcement shall be made only in the positions shown. The written approval of the superintendent shall be obtained for any other splices. Where the lap length is not shown, it shall be sufficient to develop the full strength of the reinforcement.
- Welding of reinforcement will not be permitted unless shown on the structural drawings or approved by the superintendent.
- Pipes or conduits shall not be placed within the concrete cover to reinforcement without the approval of the superintendent. The concrete cover to embedded pipes or conduits shall be a minimum of 50mm.
- All reinforcement fabric shall comply with AS/NZS 4671. and shall be supplied as flat sheets.
- All cast in steelwork shall be galvanised in accordance with AS4680 except where items are shown as being grade 316 stainless steel.
- All external edges of formed concrete shall be chamfered 15mm x15mm unless noted otherwise.
- All formwork shall be a minimum of class 2. Refer also to specification.
- Unformed surfaces shall have a steel float then broomed (finish U4).
- All anchors to concrete shall be 316 S/S Ramset ChemSet anchors (or approved equivalent) U.N.O

PENETRATIONS AND SEALANTS

- All penetrations 300mm or less are to be core drilled

- All penetrations shall be wrapped in 20mm Ableflex with final joint treatment to be with Parchem PU40 or equivalent.
- Poly pipe to be roughened at penetration interface with concrete.
- All manifolds to have hydrophilic water stop - Hydrolite CJ0725-3K.

POLYETHYLENE BELOW AND ABOVE GROUND MANIFOLDS

- Polyethylene (PE) pipe shall be a minimum Class PE100 PN16 to AS/NZS 4130 unless otherwise specified on the drawing.
- All polyethylene (PE) pipes to be butt welded unless notes otherwise.
- Electrofusion may be used where prior approval is given by the Principal.
- PE pipes with any cracks, scores or scratches deeper than 10% of the wall thickness must not be used.

PIPEWORK

- Detectable Marker tape is to be installed in ALL new trenches containing pipework.
- Where flanged joints are required the flanges shall be in accordance with AS4087 PN10 (table D).
- The metal backing plate and bolts, nuts and washers shall be hot dipped galvanised and Denso wrapped.
- The bolt lengths shall be such that they do not penetrate by more than 12mm when tightened. a minimum of three treads must be visible.
- All flange gaskets shall be 3mm full face rubber insertions complying WSA 109-202.
- Marker posts to be located above or adjacent to the pipeline at the ends of the under track crossing.
- Galvanic isolation sleeves and washers are required at all connections between dissimilar metals.

VALVES

- All valves shall be resilient seated gate valves, clockwise closing unless otherwise specified on the drawings.
- All above and below ground valves to be labeled with stamped stainless steel tags and attached with stainless steel wire.
- Valve Installation shall be installed to WSA03-2002, Drawing WAT-1303 and WAT-1304.

HDPE LINER

- Prepare the finished surface to the satisfaction of the Superintendent for the lining contractor.
- Remove accumulated water from the lining work site.
- Unload rolls of HDPE to stockpile, if suitable slings are provided.
- Trench, lay, sand backfill subsurface underdrainage pipes.
- Liner contractor to install geotextile, drainage net and HDPE liner.
- Provide concrete works for liner penetrations.
- Dig an anchor trench, and backfill after the liner is installed.
- Backfill sand ballast tubes in the anchor trench.

CONDUITS AND PITS

- All electrical conduits and pits to shall be installed by accredited contractor.
- Trenching requirements shall be in accordance with relevant technical standards AS3000.

THRUST BLOCKS

- All thrust blocks to comply with WSA 03-2011 water supply code of Australia version 3.1.
- Cast the thrust area of all thrust blocks against a clean face of undisturbed natural soil. Thrust blocks not to interfere with other services.
- Soil classifications used on this drawing are explained in the Water Supply Code of Australia.
- A geotechnical assessment is required as per specifications.
- Do not use standard thrust blocks as specified in this drawing in:
 - Very soft, soft or firm clay.
 - Loose clean sand.
 - Uncompacted fill or refuse.
- The nominal thrust area to be achieved by pouring concrete the full length of the fitting and extending from the floor of the trench to above the fitting
- Finish thrust blocks approximately 100mm above the top of the fitting or bearing pad and extend to the floor of the trench or deeper if necessary to achieve the required thrust area. Maximum encasement to be 180°.
- The minimum thrust area for taper thrust blocks to be equal to the difference between the thrust areas for dead ends of equivalent diameter to those each side of taper.

BORES

- Bore hole to be supported at all times following the bore head. The casing must be advance progressively as bore proceeds, so that any risk of settlement or collapse at the face minimized.
- Diameter of the bore head shall not exceed diameter of sleeve by more than 50mm. Annulus to be grouted with portland cement with 1:1 (sand:cement) with a water:cement ratio 1:0.67 by weight using fine well rounded sand, plasticisers may be used of flyash mixer.
- Angle of entry/exit and bore grade change to be determined on site to suit ground conditions. Boring contractor to provide assessment prior to undertaking works.

SWALES AND DRAINS

- All stormwater swales shall match existing ground level around property boundary edges. All swales shall

have a minimum grade of 0.3% with a minimum depth to be 300mm.

SUB SURFACE DRAINAGE

- Subsurface drainage to be located beneath liner and geotextile.
- Drainage geocomposite net to be 1.9m wide Flownet, with double sided Bidim A34 geotextile and laid to ensure adequate fall to Ag draining (minimum grade of 0.25%).
- Ag drain to be 170mm Megaflow vertical geocomposite panel, wrapped in Bidim A34, geotextile sock and laid at minimum grade of 0.5% from drainage nets to drainage pit.

LIST OF ABBREVIATIONS

ABBREVIATION	DEFINITION
CH	Chainage
CL	Center line
FS	Finished surface
HD	Heavy duty
IL	Invert Level
NS	Natural surface
PH	PTHoled service location
RCP	Reinforced concrete pipe
TL	Top level
U/G	Underground
USL	Underground service location

**WARNING AND DISCLAIMER
BEWARE OF UNDERGROUND SERVICES**

THE POSITION OF EXISTING U/G SERVICES SHOWN ON OUR DRAWINGS ARE TO BE USED AS A GUIDE ONLY. PINION ADVISORY DOES NOT GUARANTEE ACCURACY AND MAY BE UNAWARE OF ADDITIONAL SERVICES. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY POSITIONS THROUGH HAND EXCAVATION. PINION ADVISORY IS NOT RESPONSIBLE FOR ANY DAMAGE OR INJURY RESULTING FROM WORKS AFFECTING THESE SERVICES.

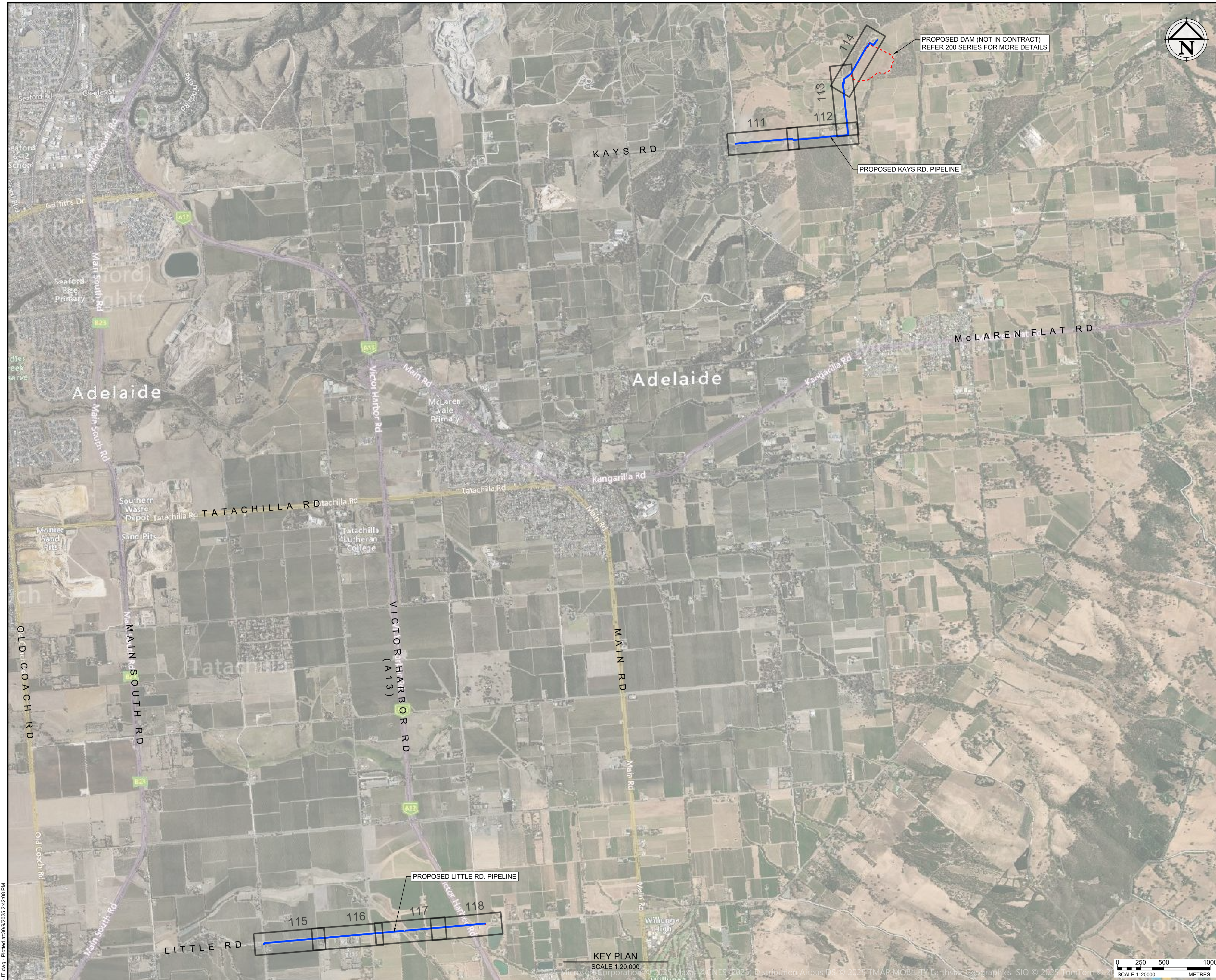
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J.TERZIC	SCALE: NO SCALE	SHEET SIZE: A1
		DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
CHECKED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54 , GDA 94	
APPROVED: M. ALLEN		DATE: 30/09/25	ALL LEVELS ARE TO AHD	
		REF MARK:		



1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

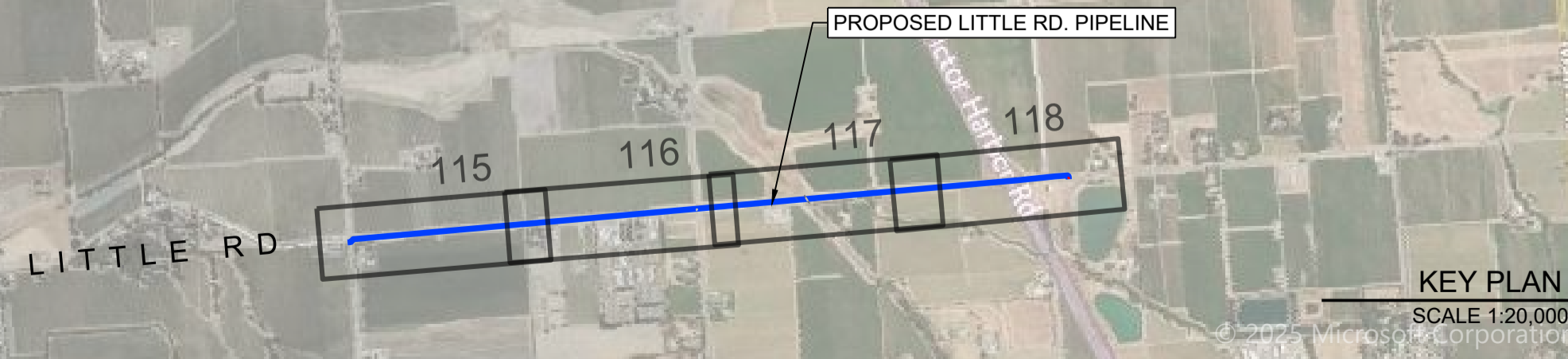
CLIENT: WILLUNGA BASIN WATER		
PROJECT: BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE: OVERALL GENERAL NOTES		
PROJECT REF: 17639	SHEET No.: 002	REV: D



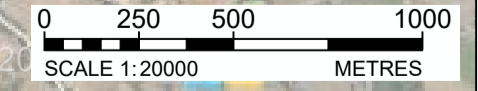
LOCATION PLAN
SCALE 1:150,000

LEGEND	
	PROPOSED DAM OUTLINE
	PROPOSED WATER PIPE
	SHEET FRAME & REFERENCE No.

Drawing file: 17639-1000-PIPELINE-IT.dwg - Printed at 30/09/2025 2:42:08 PM



KEY PLAN
SCALE 1:20,000



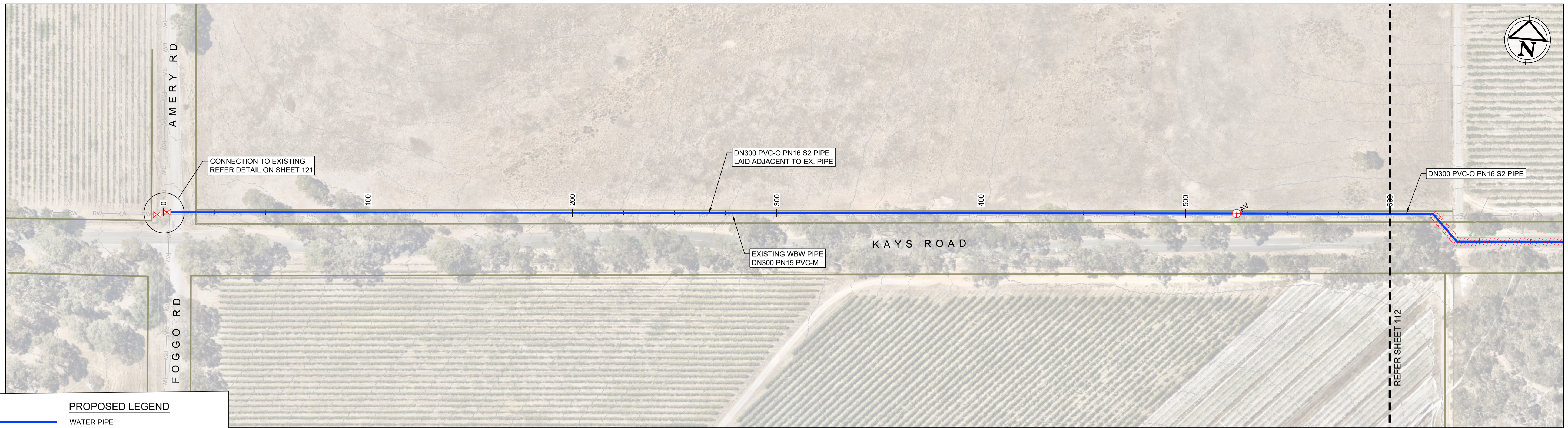
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	UNITS: ALL UNITS ARE IN METRES U.N.O.	
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 30/09/25	REF MARK:	



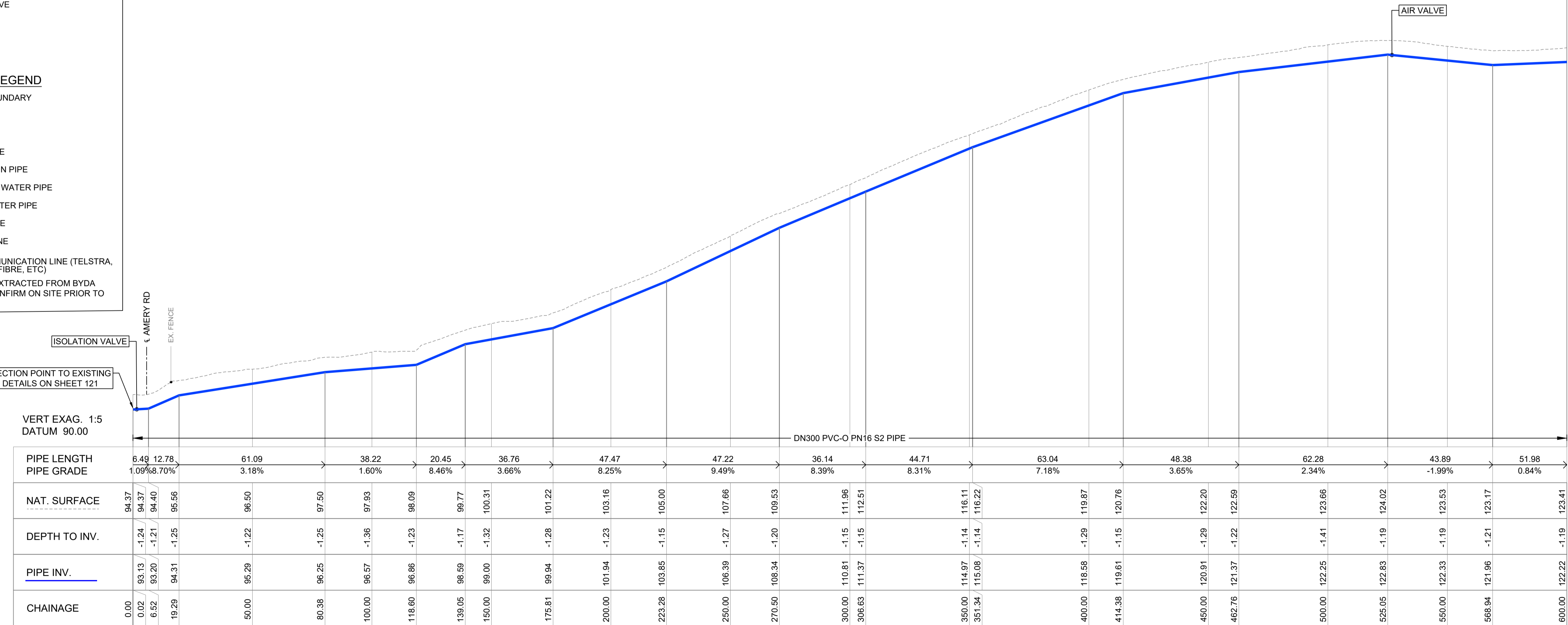
1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PLAN & PROFILE LOCATION & KEY PLAN		
PROJECT REF:	17639	SHEET No.:	110
		REV:	D

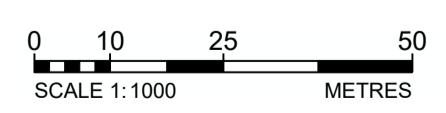


PLAN 111
SCALE 1:1000

- PROPOSED LEGEND**
- WATER PIPE
 - UNDERBORE
 - x—rw—x EXISTING TO BE REMOVED OR RELOCATED
 - x ISOLATION VALVE
 - ScV SCOUR VALVE
 - AV AIR VALVE
 - WATER METER
- EXISTING LEGEND**
- PROPERTY BOUNDARY
 - - - - - FENCE
 - - - - - CONTOUR
 - - - - - WATER COURSE
 - W— U/G WATER MAIN PIPE
 - RW— U/G RECYCLED WATER PIPE
 - SW— U/G STORM WATER PIPE
 - S— U/G SEWER PIPE
 - E— ELECTRICAL LINE
 - T— U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)
- EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.



LONGITUDINAL SECTION
SCALE HOR. 1:1000
SCALE VERT. 1:200



NOTE:
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

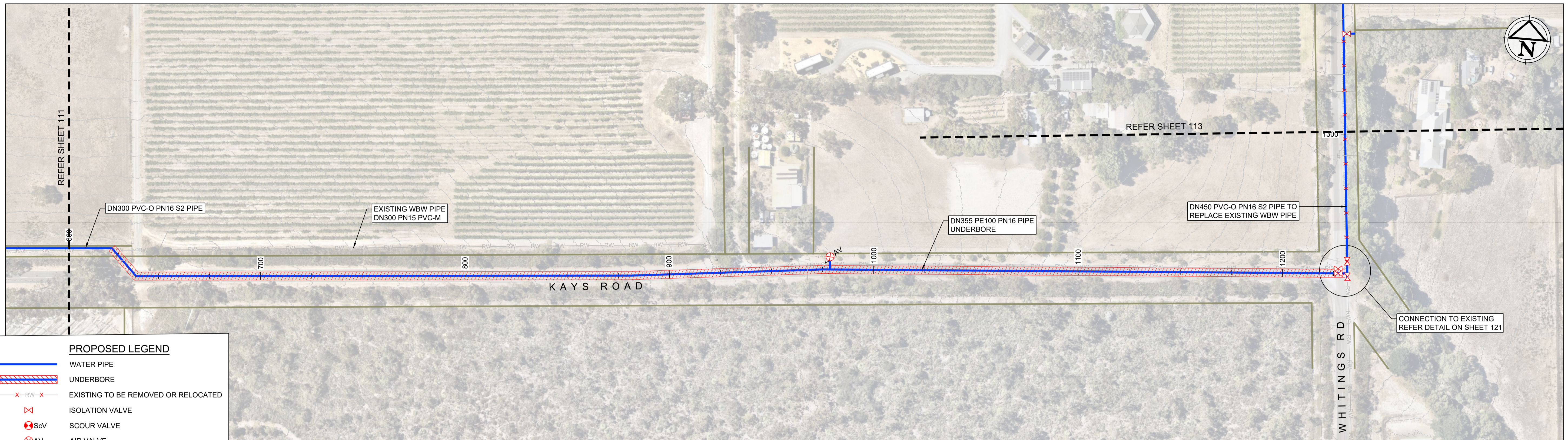
Drawing file: 17639-1000-PIPELINE-111.dwg - Printed at 30/09/25 2:43:32 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94
APPROVED: M. ALLEN		DATE: 30/09/25	REF MARK:	ALL UNITS ARE IN METRES U.N.O.

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PLAN & PROFILE KAYS RD PIPELINE (FROM AMERY RD)		
PROJECT REF:	17639	SHEET No.:	111
REV:			D



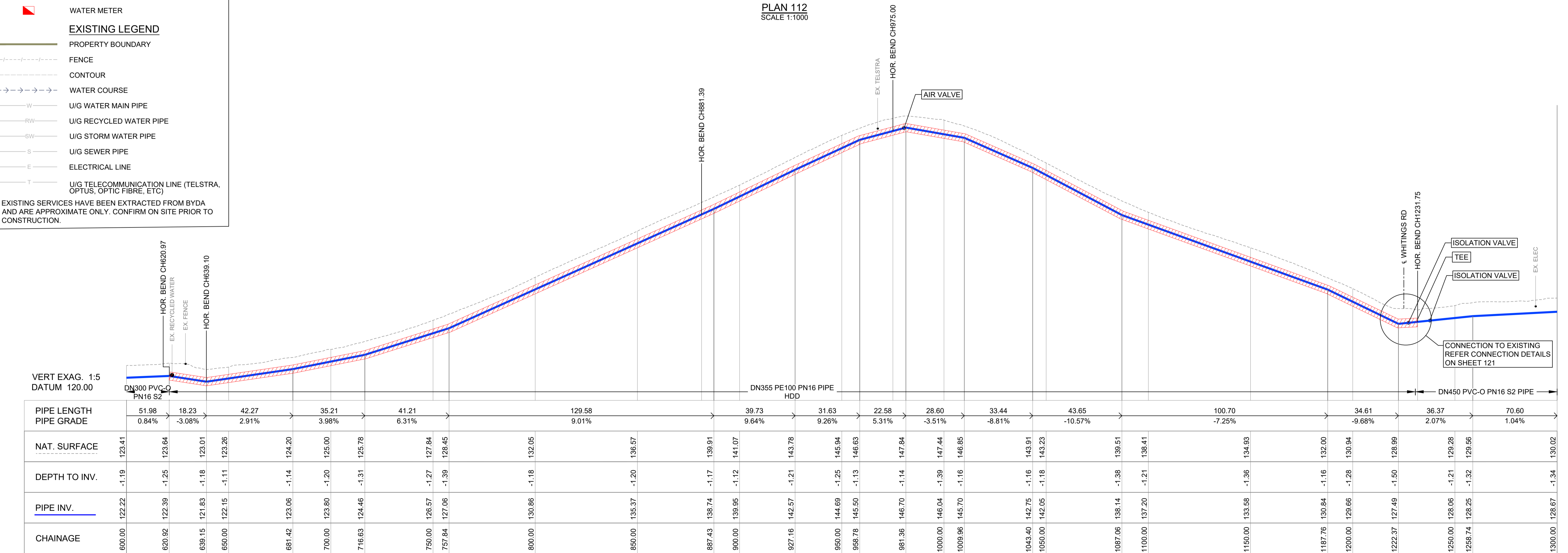
PROPOSED LEGEND

- WATER PIPE
- UNDERBORE
- EXISTING TO BE REMOVED OR RELOCATED
- ISOLATION VALVE
- SCOUR VALVE
- AIR VALVE
- WATER METER

EXISTING LEGEND

- PROPERTY BOUNDARY
- FENCE
- CONTOUR
- WATER COURSE
- U/G WATER MAIN PIPE
- U/G RECYCLED WATER PIPE
- U/G STORM WATER PIPE
- U/G SEWER PIPE
- ELECTRICAL LINE
- U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)

EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.



LONGITUDINAL SECTION
SCALE HOR. 1:1000
SCALE VERT. 1:200

NOTE:
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.



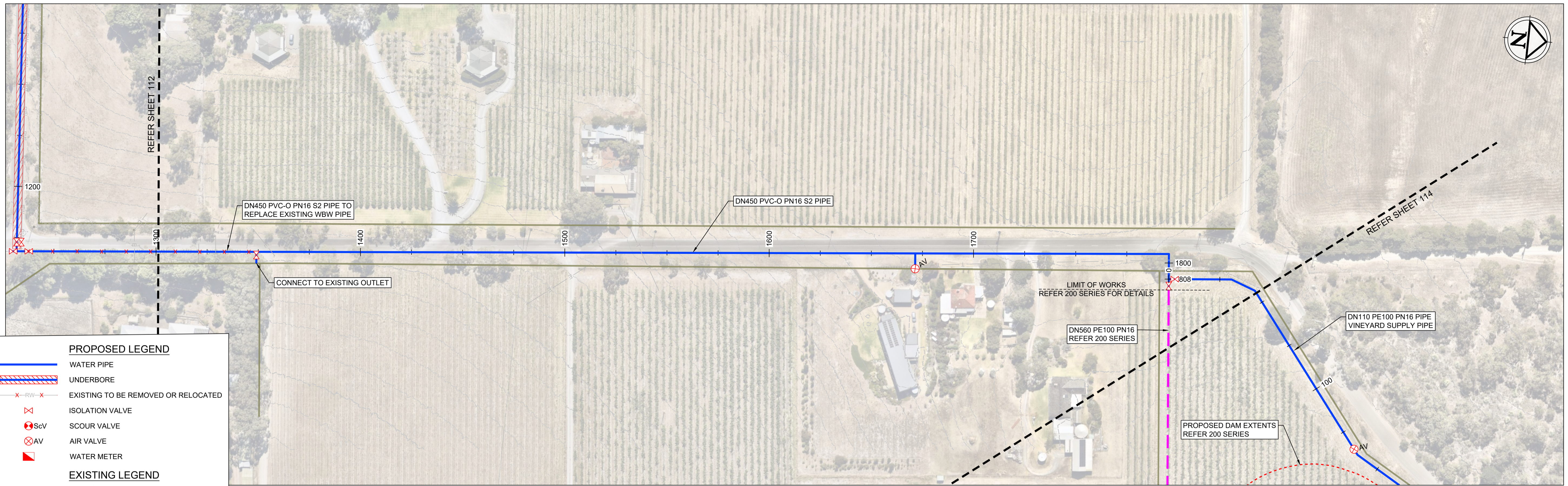
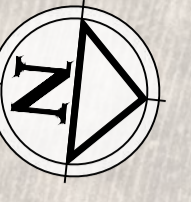
Drawing file: 17639-1000-PIPELINE-112.dwg - Printed at 30/09/25 2:42:55 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

TENDER ISSUE NOT FOR CONSTRUCTION		SCALE: AS SHOWN	SHEET SIZE: A1
DRAFTER: J. TERZIC		UNITS: ALL UNITS ARE IN METRES U.N.O.	
DESIGNER: J. TERZIC		COORDINATE SYSTEM: MGA ZONE 54, GDA 94	
CHECKED: M. ALLEN		DATE: 30/09/25	REF MARK:
APPROVED: M. ALLEN		DATE: 30/09/25	

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PLAN & PROFILE KAYS RD PIPELINE (TO WHITINGS RD)		
PROJECT REF:	17639	SHEET No.:	112
REV:			D



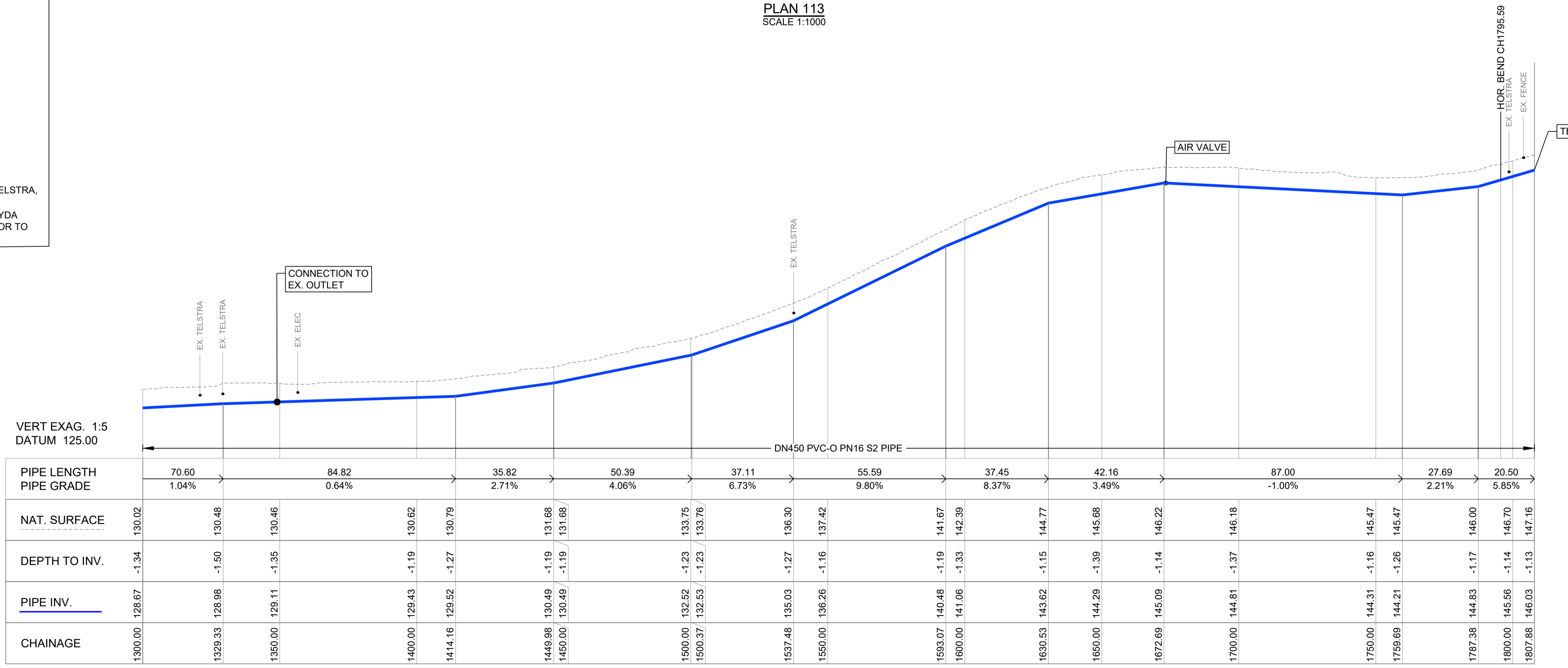
PROPOSED LEGEND

- WATER PIPE
- UNDERBORE
- EXISTING TO BE REMOVED OR RELOCATED
- ✕ ISOLATION VALVE
- ⊗ SCOUR VALVE
- ⊗ AV AIR VALVE
- ⊗ WATER METER

EXISTING LEGEND

- PROPERTY BOUNDARY
- FENCE
- CONTOUR
- WATER COURSE
- U/G WATER MAIN PIPE
- U/G RECYCLED WATER PIPE
- U/G STORM WATER PIPE
- U/G SEWER PIPE
- ELECTRICAL LINE
- U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)

EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.



LONGITUDINAL SECTION
SCALE HOR. 1:1000
SCALE VERT. 1:200

NOTE: THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.



Drawing file: 17639-1000-PIPELINE-113.dwg - Printed at 30/09/2025 2:43:17 PM

REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL
C	29/08/25	JT	90% DETAILED DESIGN
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94
APPROVED: M. ALLEN		DATE: 30/09/25	REF MARK:	ALL UNITS ARE IN METRES U.N.O.

pinion
ADVISORY

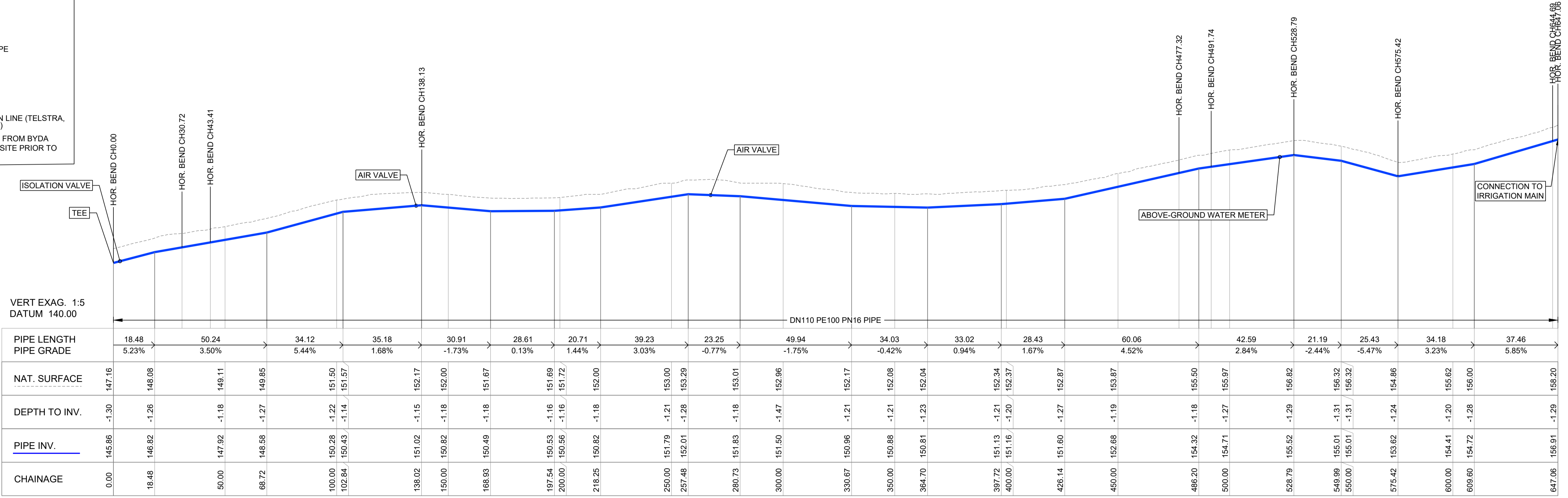
1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PLAN & PROFILE WHITINGS RD PIPELINE		
PROJECT REF:	17639	SHEET No.:	113
REV:	D		



PLAN 114
SCALE 1:1000

- PROPOSED LEGEND**
- WATER PIPE
 - UNDERBORE
 - x-rw-x EXISTING TO BE REMOVED OR RELOCATED
 - x ISOLATION VALVE
 - ScV SCOUR VALVE
 - AV AIR VALVE
 - ◻ WATER METER
- EXISTING LEGEND**
- PROPERTY BOUNDARY
 - - - - - FENCE
 - - - - - CONTOUR
 - - - - - WATER COURSE
 - W U/G WATER MAIN PIPE
 - RW U/G RECYCLED WATER PIPE
 - SW U/G STORM WATER PIPE
 - S U/G SEWER PIPE
 - E ELECTRICAL LINE
 - T U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)
- EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.



LONGITUDINAL SECTION
SCALE HOR. 1:1000
SCALE VERT. 1:200



NOTE:
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

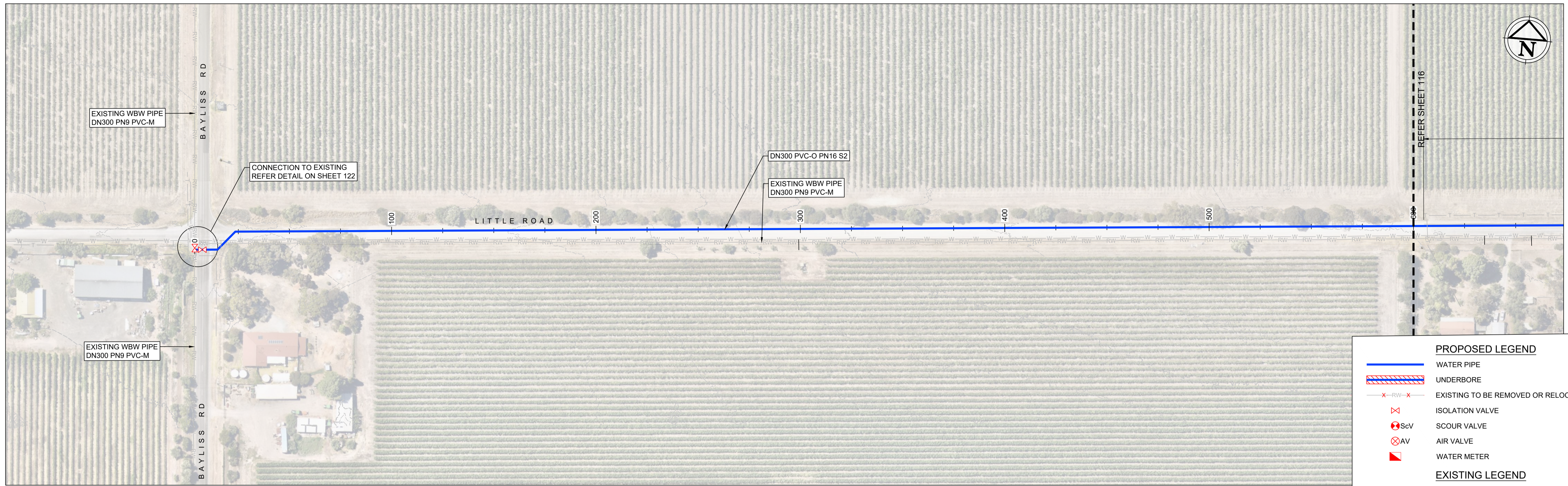
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94
APPROVED: M. ALLEN		DATE: 30/09/25	REF MARK:	ALL LEVELS ARE TO AHD

pinion
ADVISORY

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT: WILLUNGA BASIN WATER	PROJECT: BLEWITT SPRINGS STORAGE EXPANSION
SHEET TITLE: PLAN & PROFILE VINEYARD SUPPLY PIPE (TO IRRIGATION MAIN)	PROJECT REF: 17639
SHEET No.: 114	REV: D

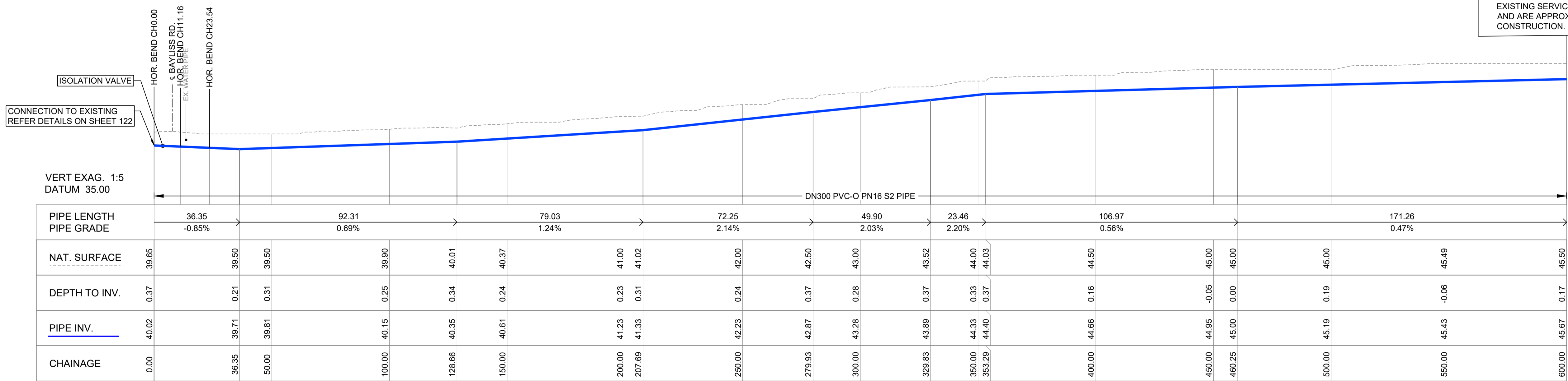
Drawing file: 17639-1000-PIPELINE-114.dwg - Printed at 30/09/2025 2:43:47 PM



PLAN 115
SCALE 1:1000

PROPOSED LEGEND	
	WATER PIPE
	UNDERBORE
	EXISTING TO BE REMOVED OR RELOCATED
	ISOLATION VALVE
	SCOUR VALVE
	AIR VALVE
	WATER METER
EXISTING LEGEND	
	PROPERTY BOUNDARY
	FENCE
	CONTOUR
	WATER COURSE
	U/G WATER MAIN PIPE
	U/G RECYCLED WATER PIPE
	U/G STORM WATER PIPE
	U/G SEWER PIPE
	ELECTRICAL LINE
	U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)

EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.



LONGITUDINAL SECTION
SCALE HOR. 1:1000
SCALE VERT. 1:200



NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

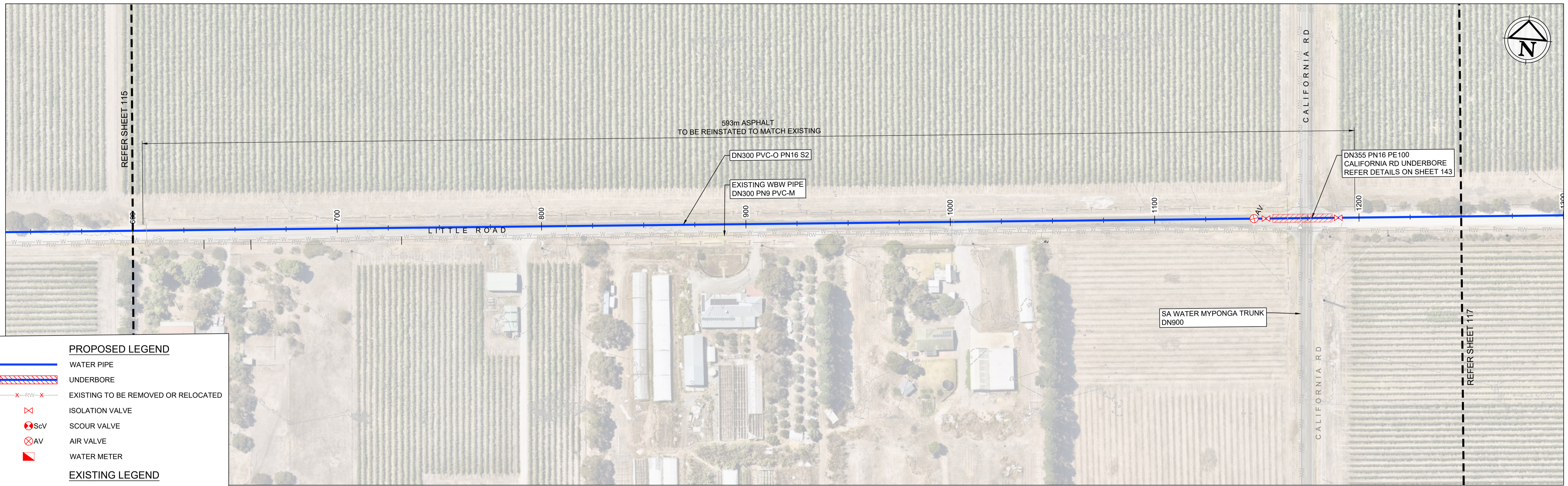
Drawing file: 17639-1000-PIPELINE-1.dwg - Printed at 30/09/2025 2:45:09 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	UNITS: ALL UNITS ARE IN METRES U.N.O.	
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission.		DATE: 30/09/25	REF MARK:	

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PLAN & PROFILE LITTLE RD PIPELINE (FROM BAYLISS RD)		
PROJECT REF:	17639	SHEET No.:	115
REV:			D



PROPOSED LEGEND

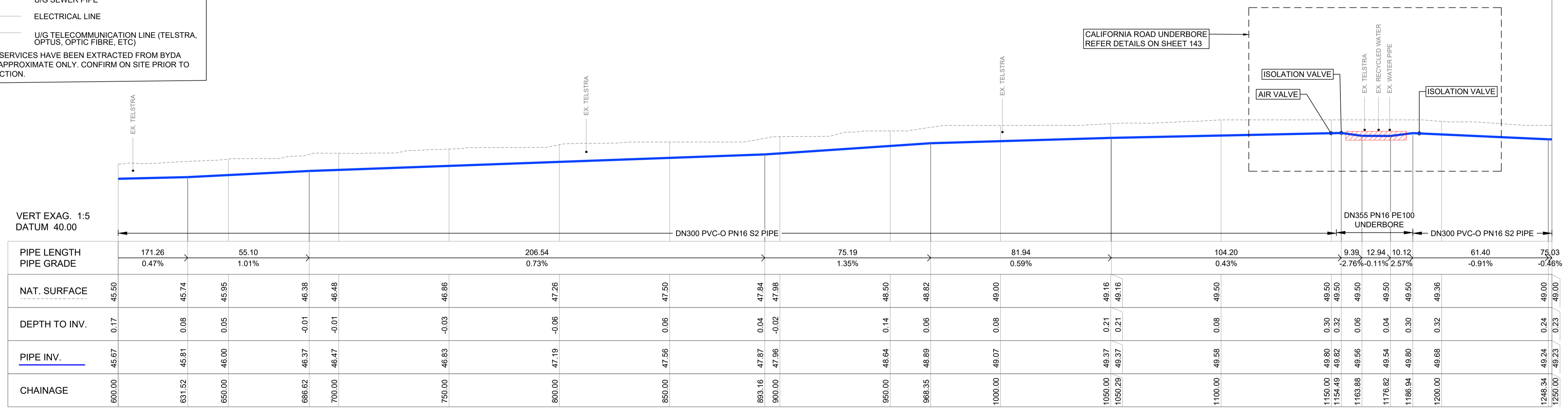
- WATER PIPE
- UNDERBORE
- X-RW-X- EXISTING TO BE REMOVED OR RELOCATED
- X ISOLATION VALVE
- ScV SCOUR VALVE
- AV AIR VALVE
- W WATER METER

EXISTING LEGEND

- PROPERTY BOUNDARY
- FENCE
- CONTOUR
- WATER COURSE
- U/G WATER MAIN PIPE
- U/G RECYCLED WATER PIPE
- U/G STORM WATER PIPE
- U/G SEWER PIPE
- ELECTRICAL LINE
- U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)

EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.

PLAN 116
SCALE 1:1000



LONGITUDINAL SECTION
SCALE HOR. 1:1000
SCALE VERT. 1:200



NOTE : THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.

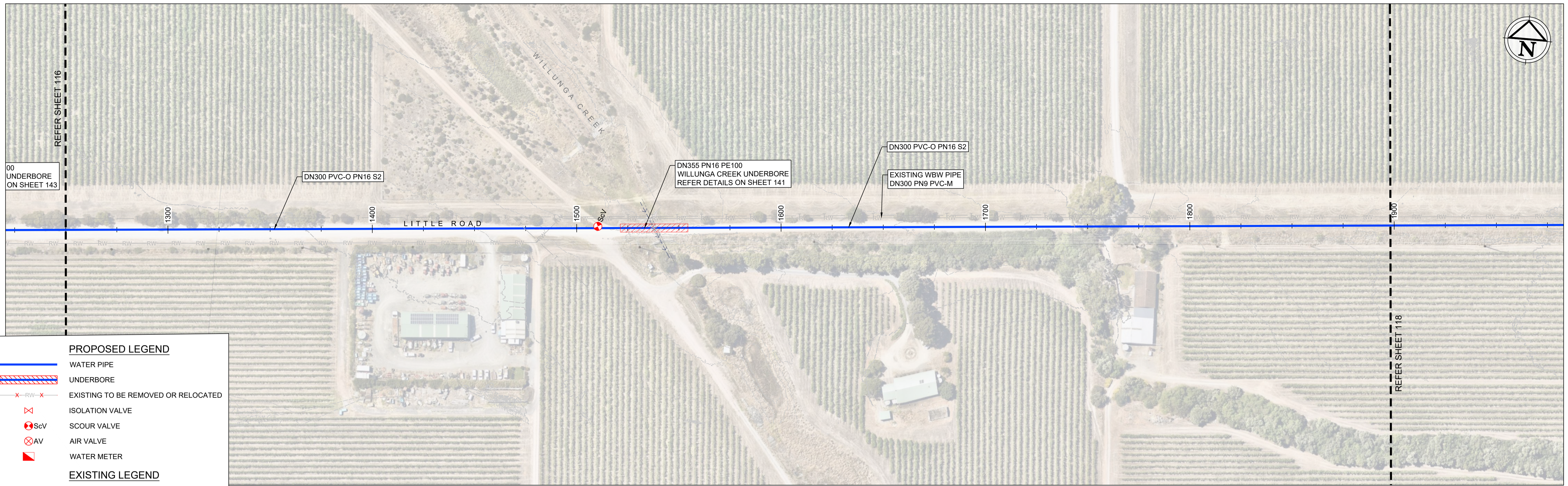
Drawing file: 17639-1000-PIPELINE-116.dwg - Printed at 30/09/2025 2:43:31 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94
APPROVED: M. ALLEN		DATE: 30/09/25	ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		REF MARK:		

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PLAN & PROFILE LITTLE RD PIPELINE (CROSSING CALIFORNIA RD)		
PROJECT REF:	17639	SHEET No.:	116
REV:			D



PROPOSED LEGEND

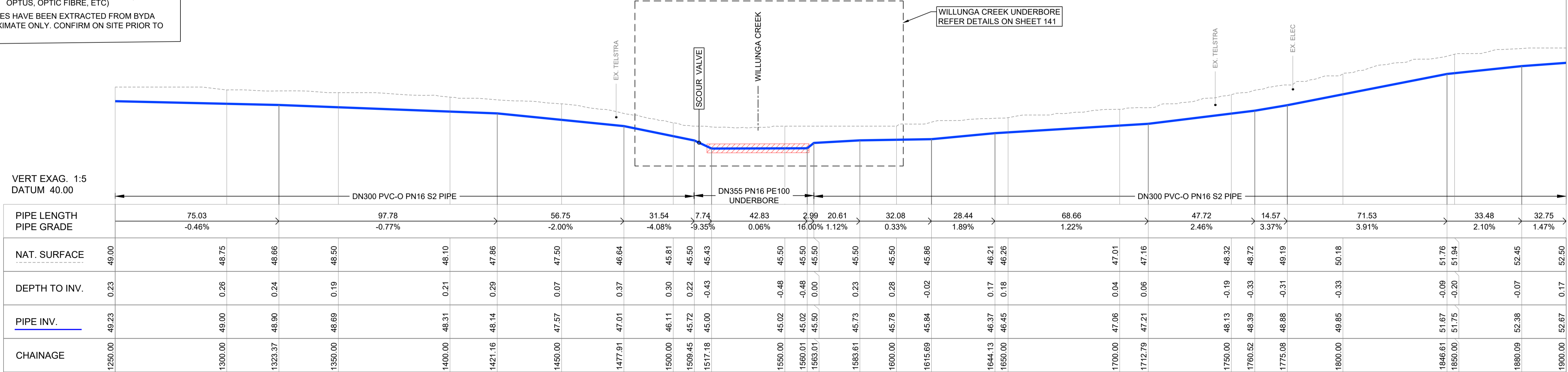
- WATER PIPE
- UNDERBORE
- x-rw-x EXISTING TO BE REMOVED OR RELOCATED
- ISOLATION VALVE
- Scv SCOUR VALVE
- AV AIR VALVE
- WATER METER

EXISTING LEGEND

- PROPERTY BOUNDARY
- FENCE
- CONTOUR
- WATER COURSE
- U/G WATER MAIN PIPE
- U/G RECYCLED WATER PIPE
- U/G STORM WATER PIPE
- U/G SEWER PIPE
- ELECTRICAL LINE
- U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)

EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.

PLAN 117
SCALE 1:1000



LONGITUDINAL SECTION
SCALE HOR. 1:1000
SCALE VERT. 1:200



NOTE: THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.

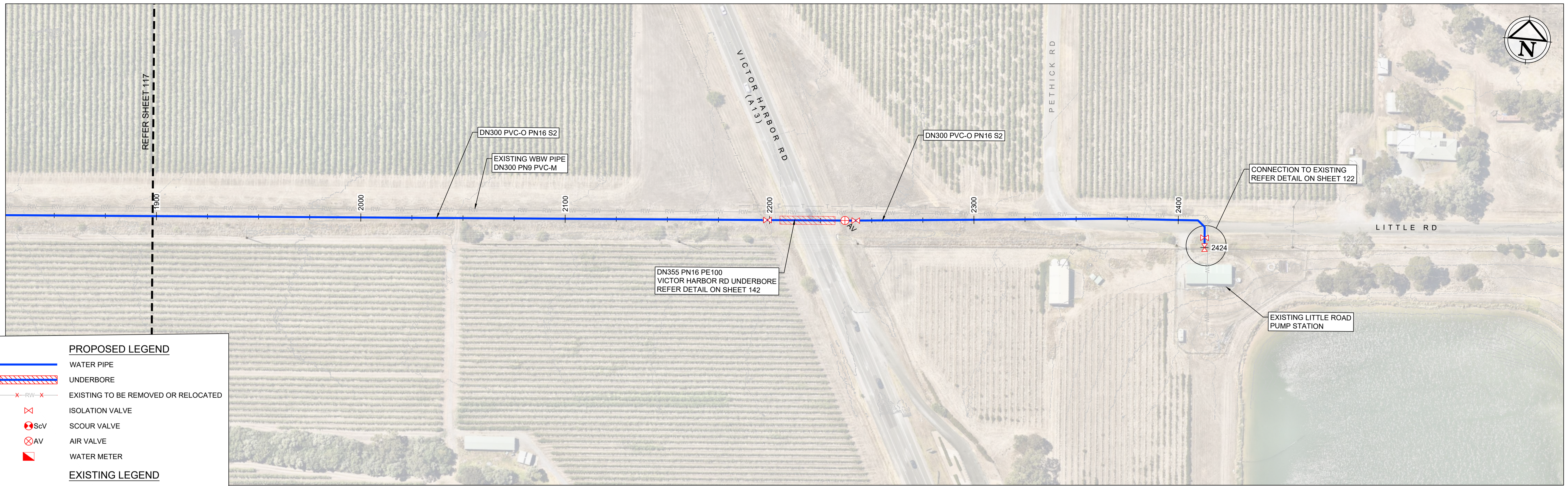
REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL
C	29/08/25	JT	90% DETAILED DESIGN
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	UNITS: ALL UNITS ARE IN METRES U.N.O.	
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94	
DATE: 30/09/25		REF MARK:		

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PLAN & PROFILE LITTLE RD PIPELINE (CROSSING WILLUNGA CREEK)		
PROJECT REF:	17639	SHEET No.:	117
REV:			D

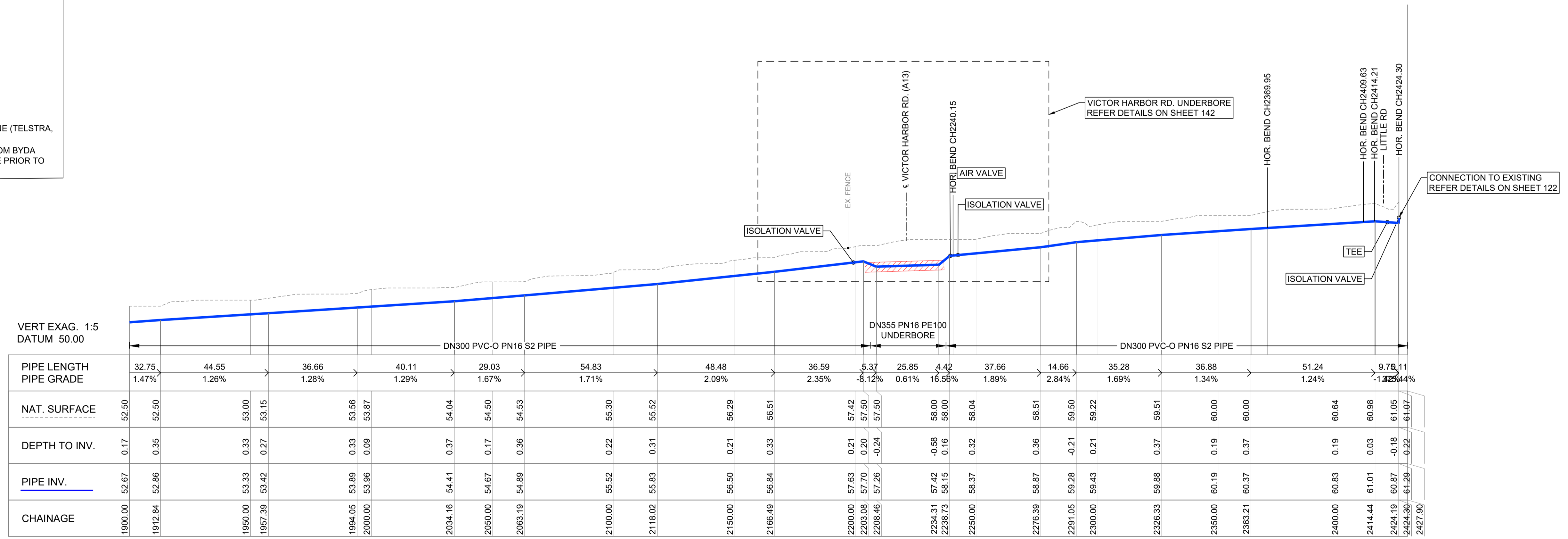
Drawing file: 17639-1000-PIPELINE-117.dwg - Printed at 30/09/2025 2:44:53 PM



PLAN 118
SCALE 1:1000

PROPOSED LEGEND	
	WATER PIPE
	UNDERBORE
	EXISTING TO BE REMOVED OR RELOCATED
	ISOLATION VALVE
	SCOUR VALVE
	AIR VALVE
	WATER METER
EXISTING LEGEND	
	PROPERTY BOUNDARY
	FENCE
	CONTOUR
	WATER COURSE
	U/G WATER MAIN PIPE
	U/G RECYCLED WATER PIPE
	U/G STORM WATER PIPE
	U/G SEWER PIPE
	ELECTRICAL LINE
	U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)

EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.



LONGITUDINAL SECTION
SCALE HOR. 1:1000
SCALE VERT. 1:200

NOTE : THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.



Drawing file: 17639-1000-PIPELINE-118.dwg - Printed at 30/09/2025 2:45:16 PM






















REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

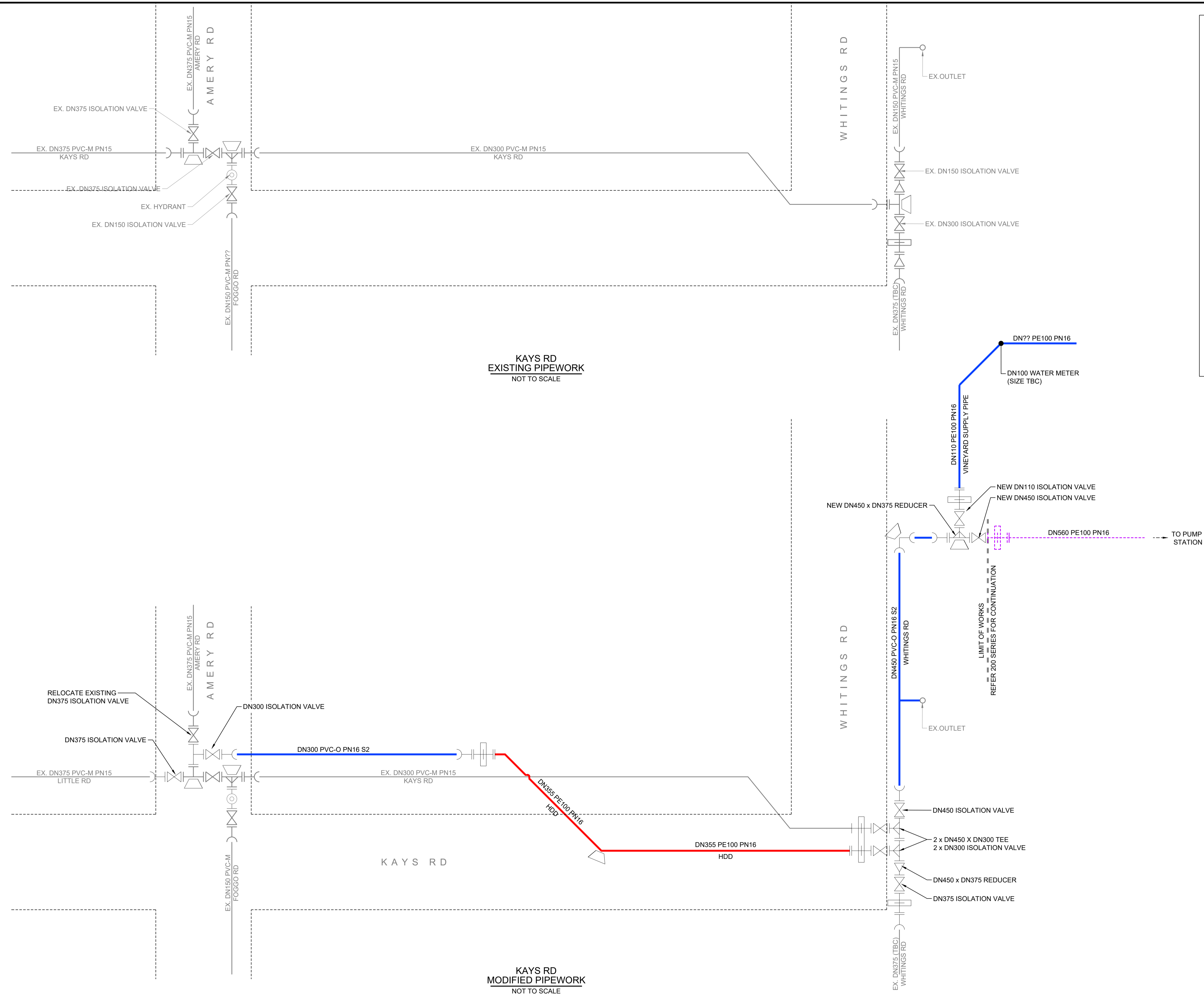
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: AS SHOWN	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94
APPROVED: M. ALLEN		DATE: 30/09/25	ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission.		REF MARK:		

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PLAN & PROFILE LITTLE RD PIPELINE (TO EX. PUMP STATION)		
PROJECT REF:	17639	SHEET No.:	118
REV:			D

SCHEMATIC LEGEND:

-  THRUST COLLAR
-  THRUST BLOCK
-  SOC-SOC REDUCER TEE
-  SOC-SOC TEE
-  FL-FL REDUCER TEE
-  FL-FL TEE
-  FL-SOC REDUCER TEE
-  FL-SOC TEE
-  GATE VALVE
-  FL-SOC CONNECTOR
-  45° SOC-SOC BEND
-  90° FL-FL BEND
-  90° SOC-SOC BEND
-  FL-FL REDUCER
-  FL-SOC CONNECTOR WITH THRUST COLLAR
-  FL-FL SPOOL
-  HYDRANT
-  AIR VALVE
-  OUTLET
-  EXISTING PIPEWORK
-  PROPOSED PIPEWORK



KAYS RD
EXISTING PIPEWORK
NOT TO SCALE

KAYS RD
MODIFIED PIPEWORK
NOT TO SCALE

NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

Drawing file: 17639-1000-PIPELINE-1.dwg - Printed at 30/09/2025 2:45:28 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

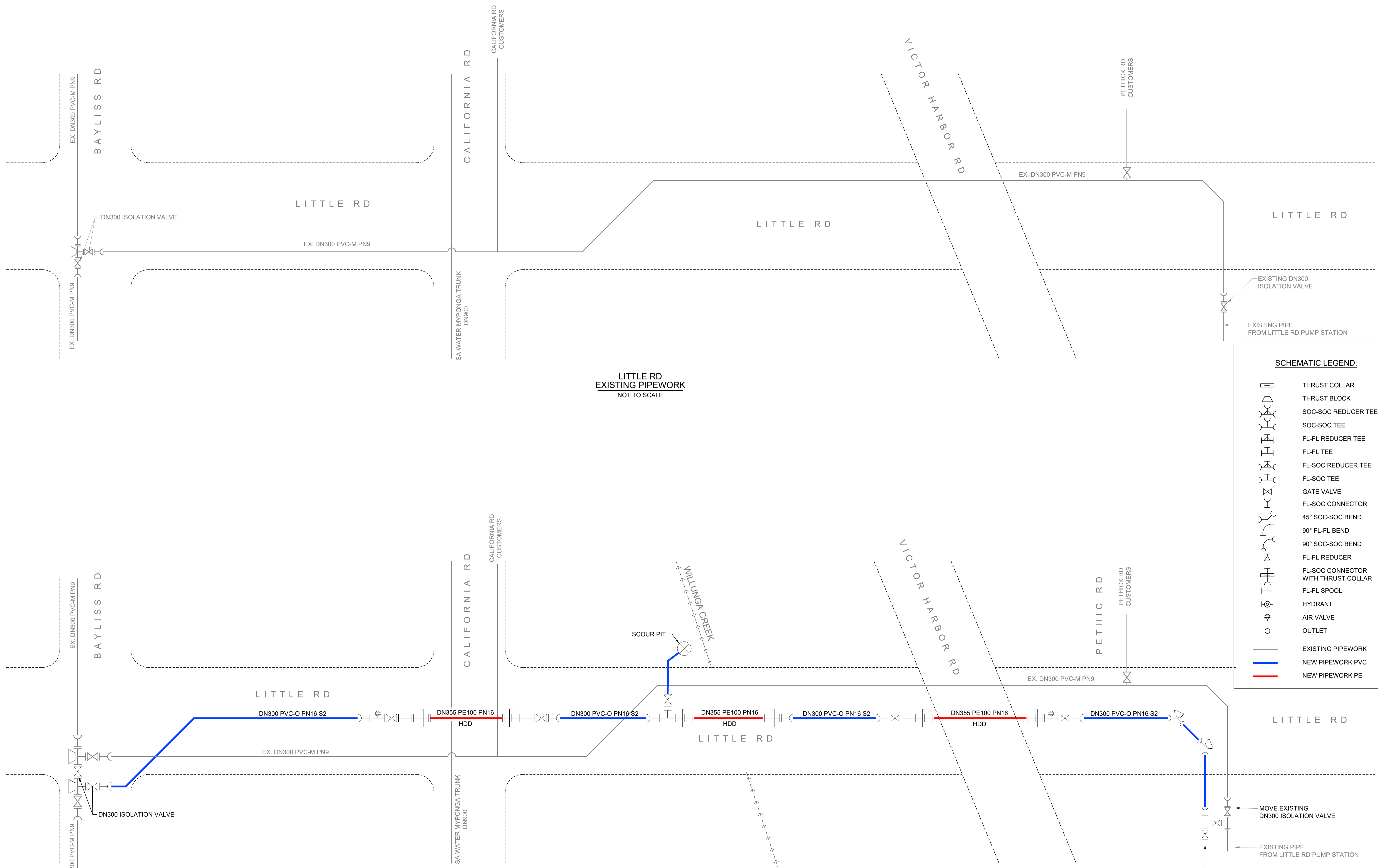
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: NOT TO SCALE	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54 , GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 30/09/25	REF MARK:	



1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PIPELINE SCHEMATIC CONNECTION DETAILS KAYS RD & WHITINGS RD		
PROJECT REF:	17639	SHEET No.:	121
REV:			D

Drawing file: 17639-1000-PIPELINE-1.dwg - Printed at 30/09/25 2:45:41 PM



LITTLE RD
EXISTING PIPEWORK
NOT TO SCALE

LITTLE RD
MODIFIED PIPEWORK
NOT TO SCALE

SCHEMATIC LEGEND:

- THRUST COLLAR
- THRUST BLOCK
- SOC-SOC REDUCER TEE
- SOC-SOC TEE
- FL-FL REDUCER TEE
- FL-FL TEE
- FL-SOC REDUCER TEE
- FL-SOC TEE
- GATE VALVE
- FL-SOC CONNECTOR
- 45° SOC-SOC BEND
- 90° FL-FL BEND
- 90° SOC-SOC BEND
- FL-FL REDUCER
- FL-SOC CONNECTOR WITH THRUST COLLAR
- FL-FL SPOOL
- HYDRANT
- AIR VALVE
- OUTLET
- EXISTING PIPEWORK
- NEW PIPEWORK PVC
- NEW PIPEWORK PE

NOTE:
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: **TENDER ISSUE**
NOT FOR CONSTRUCTION

DRAFTER: J. TERZIC
DESIGNER: J. TERZIC

CHECKED: M. ALLEN
APPROVED: M. ALLEN

DATE: 30/09/25

SCALE: NOT TO SCALE
SHEET SIZE: A1

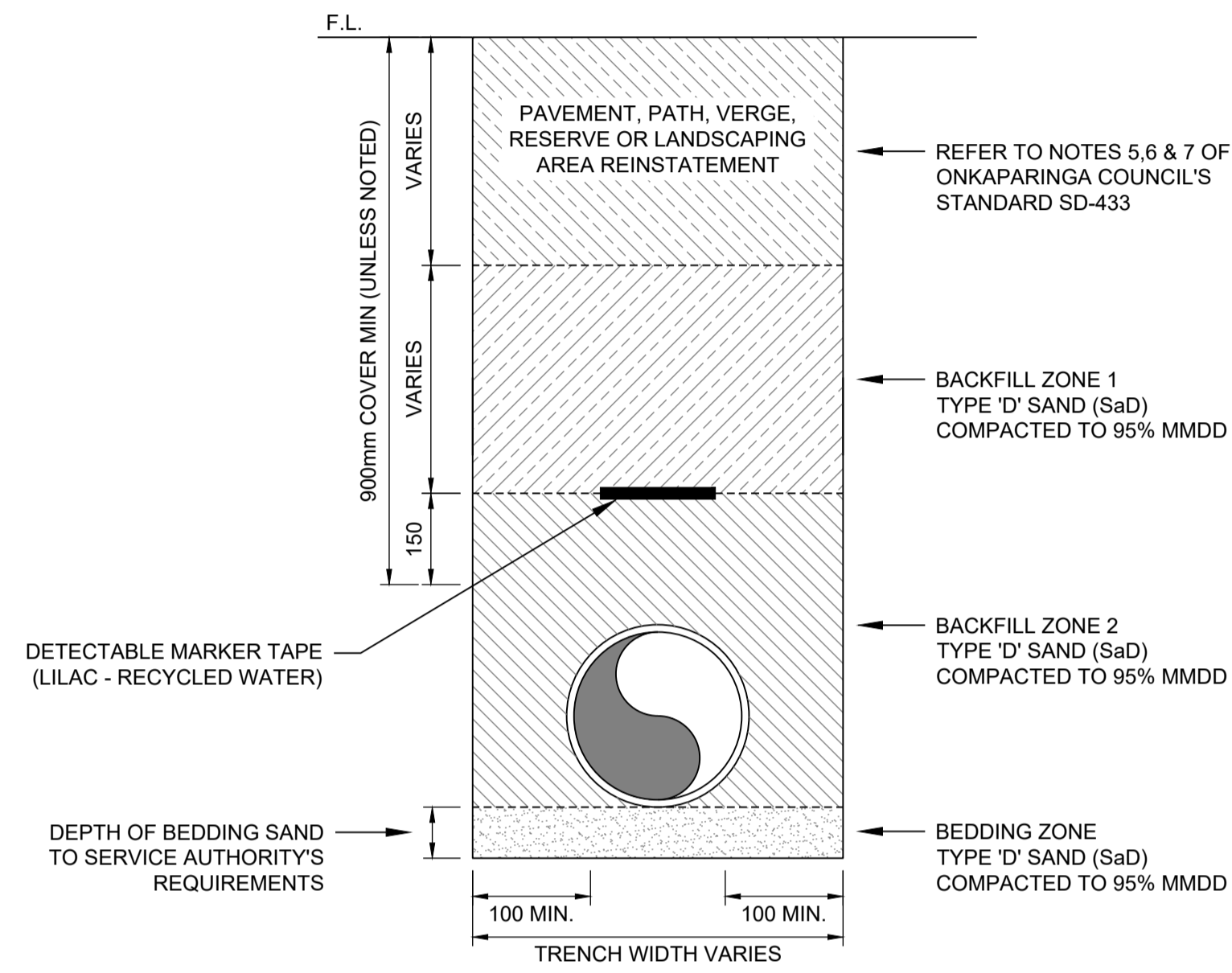
UNITS: ALL UNITS ARE IN METRES U.N.O.

COORDINATE SYSTEM: MGA ZONE 54, GDA 94
ALL LEVELS ARE TO AHD

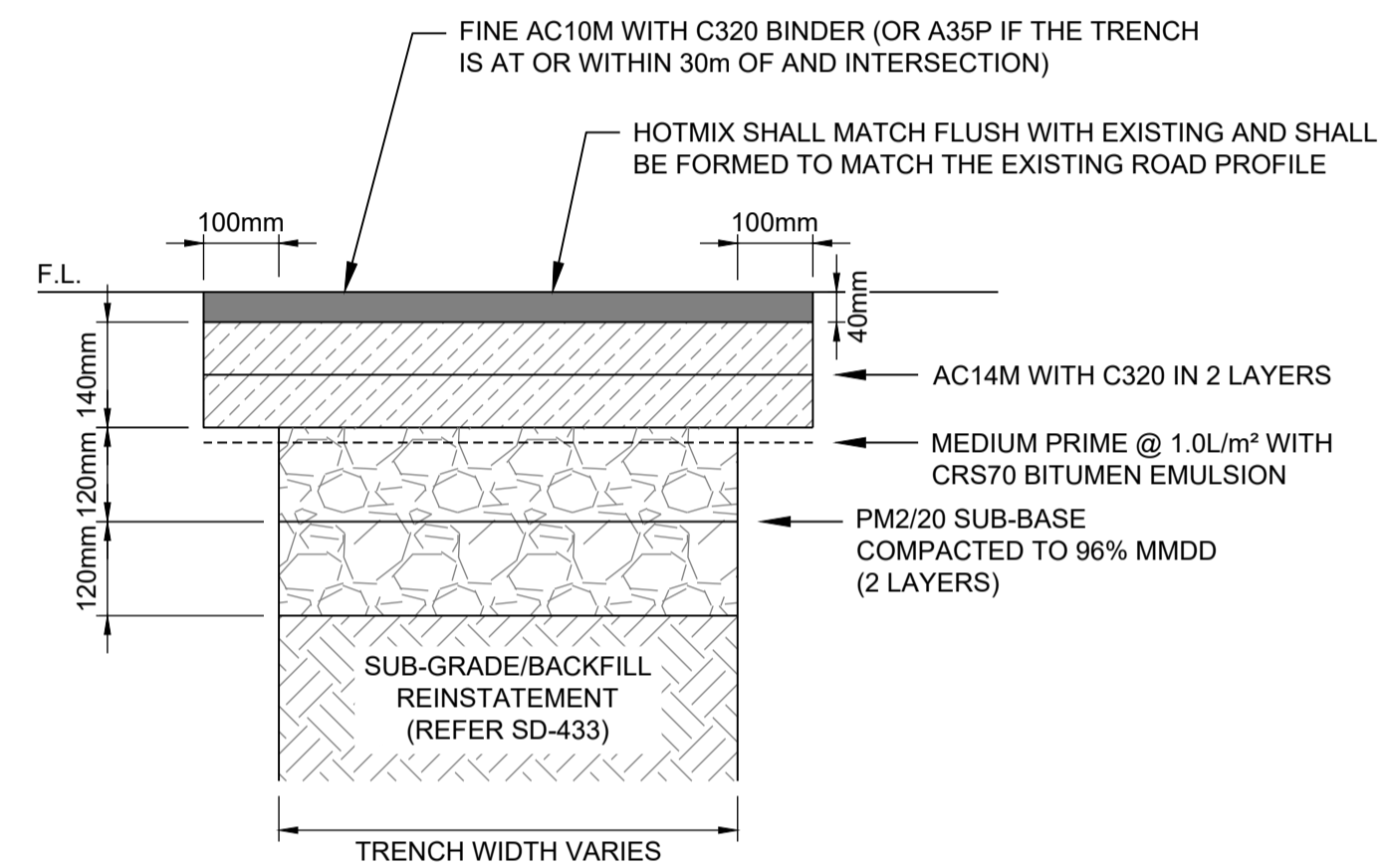
REF MARK:

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

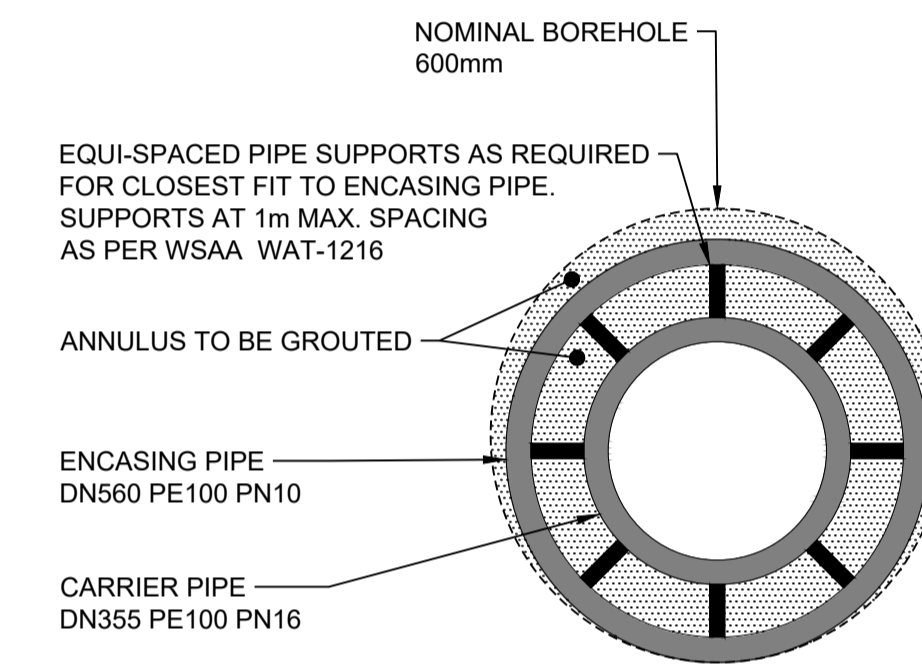
CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	PIPELINE SCHEMATIC CONNECTION DETAILS LITTLE RD		
PROJECT REF:	17639	SHEET No.:	122
REV:			D



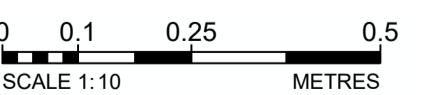
SERVICE TRENCH BACKFILLING
TYPICAL INSTALLATION DETAIL
EXTRACT FROM COUNCIL STANDARD (SD-433)
BELOW SUB-BASE LEVEL FOR CONDUITS OR SERVICES - SCALE 1:10



PAVEMENT REINSTATEMENT FOR TRENCHES & REPAIRS
TYPICAL INSTALLATION DETAIL
EXTRACT FROM COUNCIL STANDARD (TYPE 2)(SD-431)
BELOW FOR COLLECTOR & DISTRIBUTOR ROADS - SCALE 1:10



BORE
TYPICAL CROSS SECTION
SCALE 1:10



Drawing file: 17639-1000-PIPELINE-IT.dwg - Printed at 30/09/25 2:45:53 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

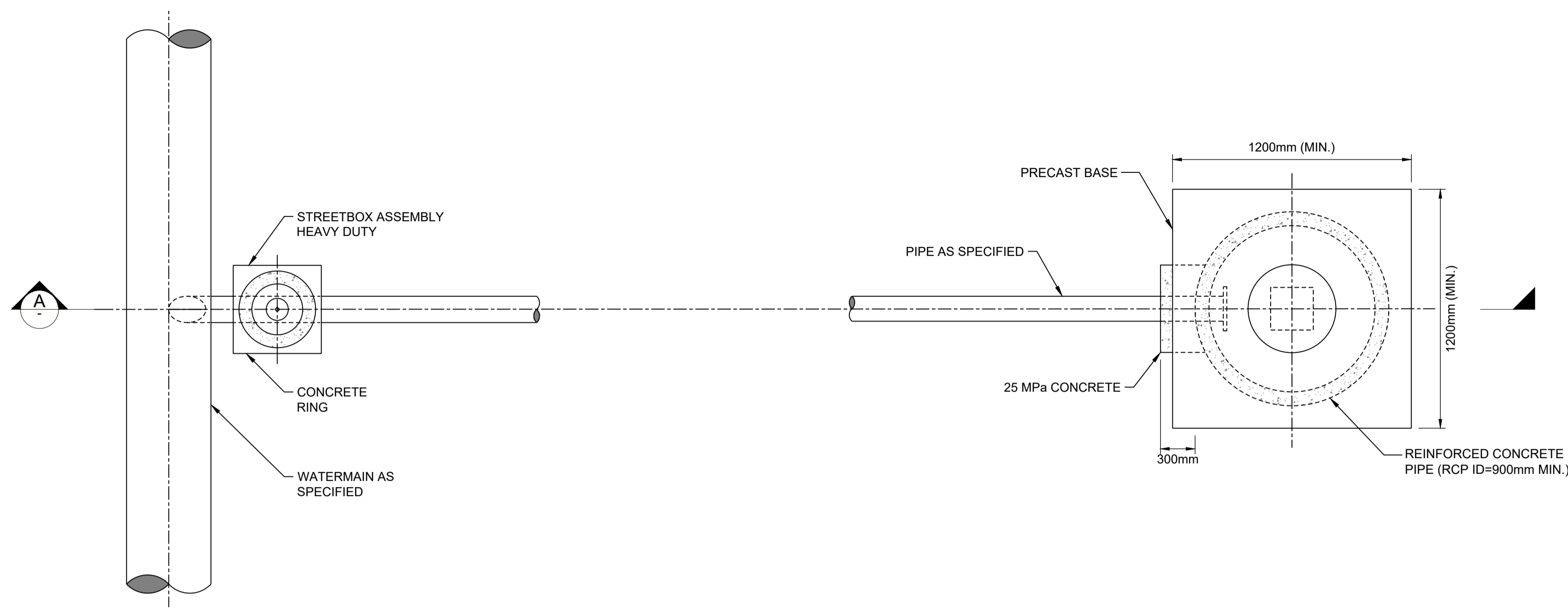
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J.TERZIC	SCALE: 1:10	SHEET SIZE: A1
DESIGNER: J.TERZIC		CHECKED: M.ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M.ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	REF MARK:



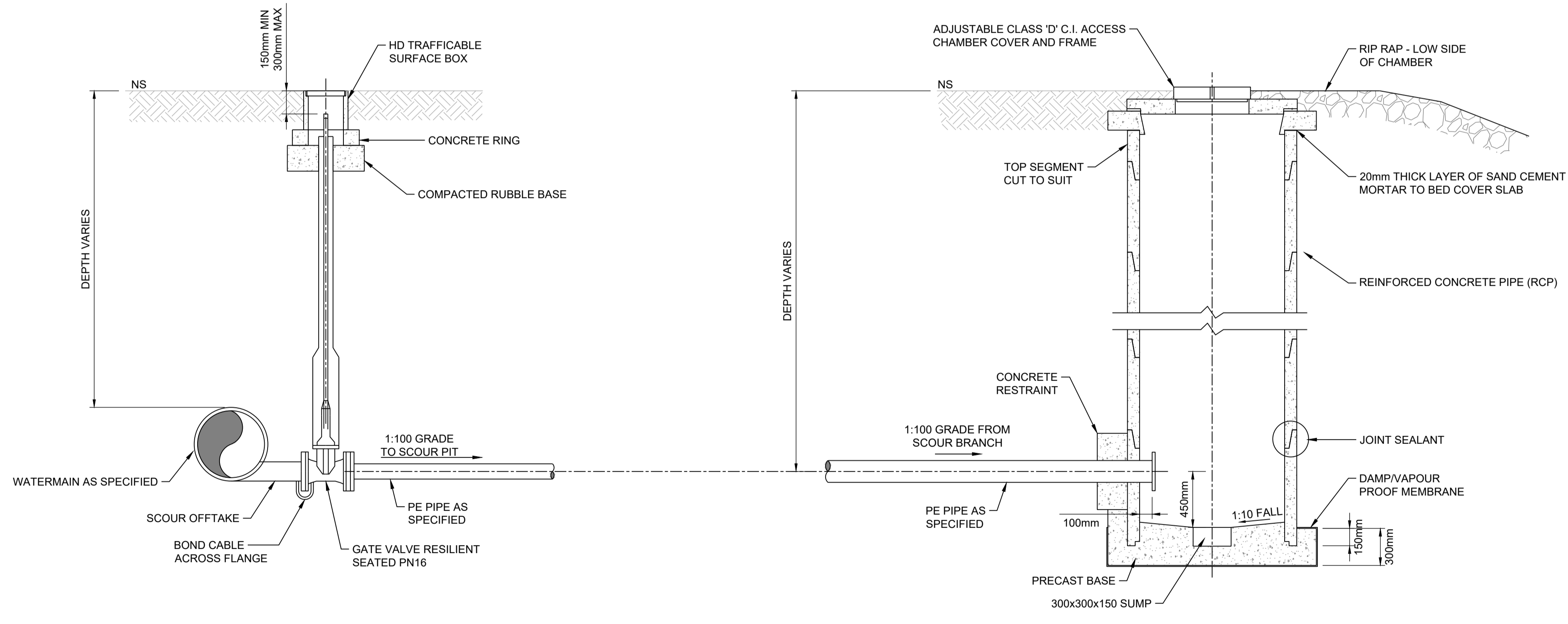
1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	TYPICAL INSTALLATION DETAILS PIPE TRENCH & BORE		
PROJECT REF:	17639	SHEET No.:	131
REV:			D

COPYRIGHT:
This document is and shall remain the property of PINION ADVISORY PTY. LTD.
The document may only be used for the purpose for which it was commissioned
and in accordance with the terms of engagement for the commission.
The arrangement and general details as shown on this drawing are essentially
diagrammatic and must be applied to the circumstances as found on site.



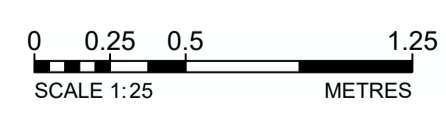
SCOUR VALVE & PIT
TYPICAL PLAN DETAIL
SCALE 1:25



SCOUR VALVE & PIT
TYPICAL SECTION DETAIL
SCALE 1:25

NOTES:

- COVER DEPTH MAY VARY AT VARIOUS LOCATIONS.
- LOCATION AND TYPE OF SCOUR VALVE INSTALLATION ARE SHOWN ON PIPELINE PLAN DRAWINGS.
- ALL DIMENSIONS SHALL BE CONFIRMED PRIOR TO FABRICATION.
- ALL FLANGES TO BE PN16 TO AS 4087.
- ALL FLANGED JOINTS SHALL BE WRAPPED WITH PETROLEUM/BITUMEN MASTIC TAPE FOR CORROSION PROTECTION. FOR PIPE BEDDING AND BACKFILL DETAILS REFER TO TYPICAL TRENCH DETAILS.
- ALL PIPE, FITTINGS, VALVES, FLANGES AND FASTENERS SHALL BE IN ACCORDANCE WITH THE TECHNICAL SPECIFICATIONS.
- REFER SA WATER SCM (SEWER CONSTRUCTION MANUAL) DRG L1 FOR CHAMBER BACKFILL AND REINSTATEMENT DETAILS.
- LOCATION AND TYPE OF SCOUR VALVE INSTALLATION ARE SHOWN ON PIPELINE PLAN DRAWINGS.



Drawing file: 17639-1000-PIPELINE-IT.dwg - Printed at 30/09/2025 2:46:07 PM

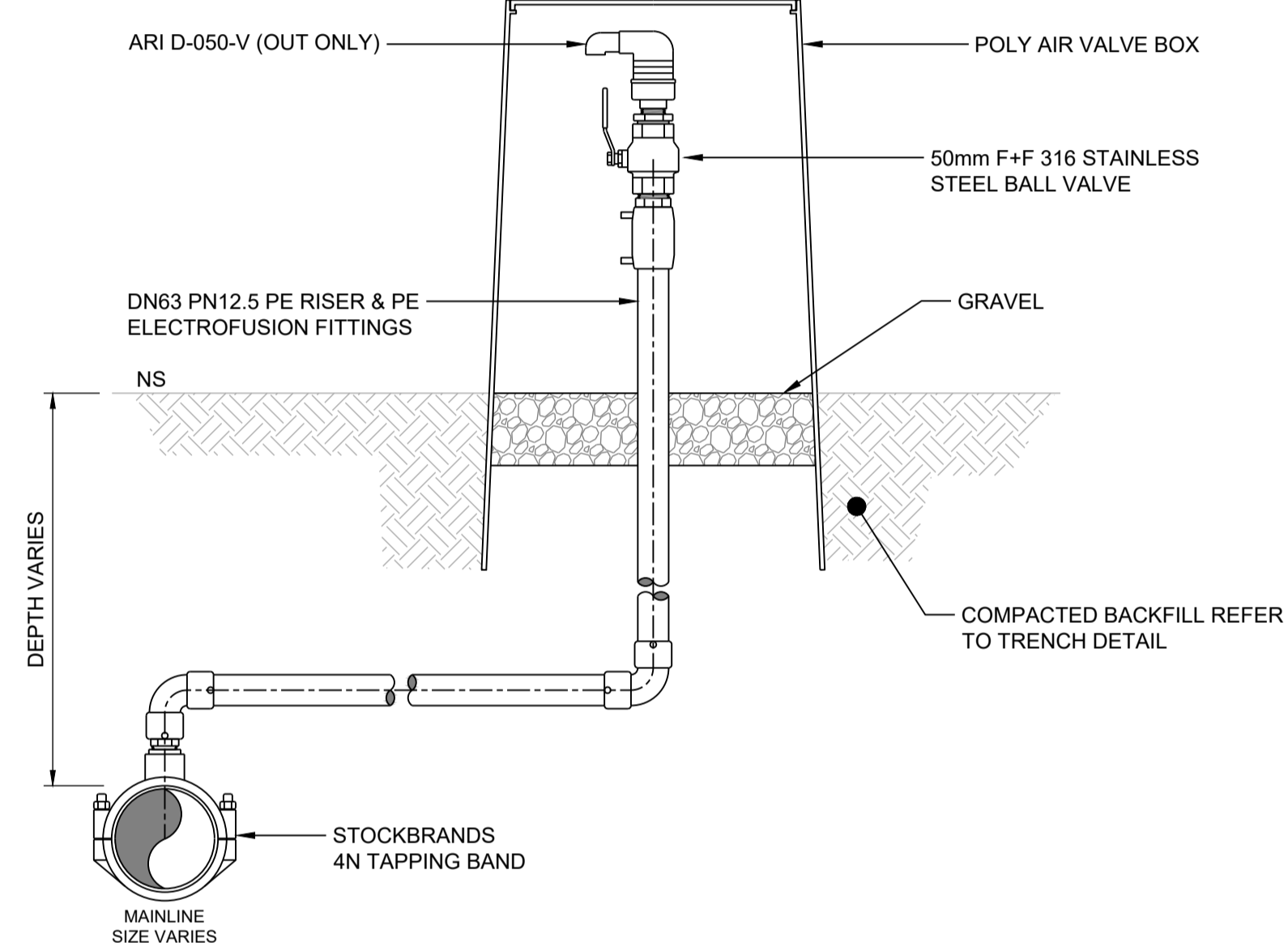
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:25	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission.		REF MARK:		

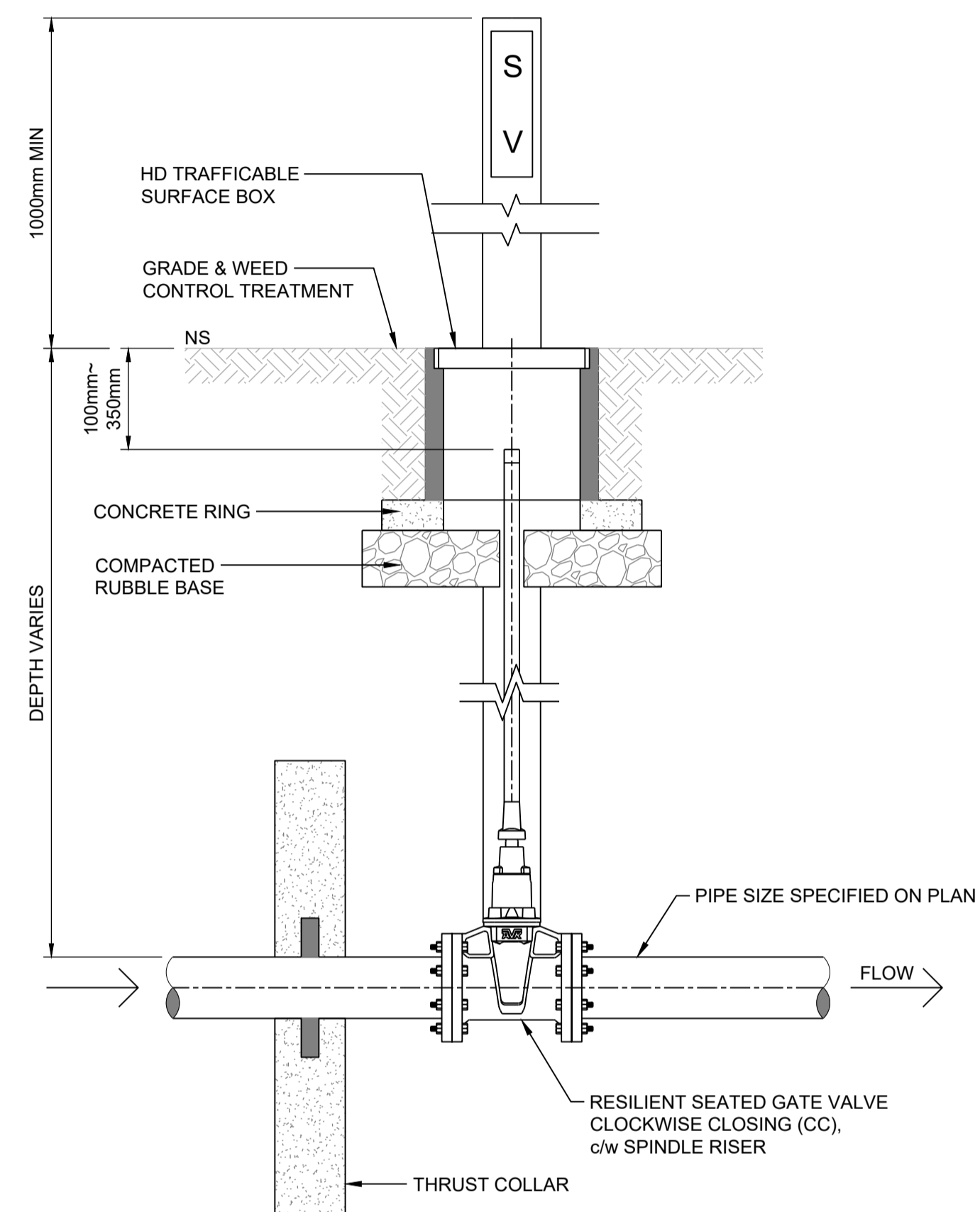


 1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

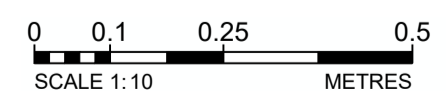
CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	TYPICAL INSTALLATION DETAILS SCOUR VALVE & PIT		
PROJECT REF:	17639	SHEET No.:	132
REV:			D



AIR RELEASE VALVE 50mm
TYPICAL INSTALLATION DETAIL
 SCALE 1:10



ISOLATION VALVE
TYPICAL INSTALLATION DETAIL
 SCALE 1:10



Drawings file: 17639-1000-PIPELINE-IT.dwg - Printed at 30/09/2025 2:42:20 PM

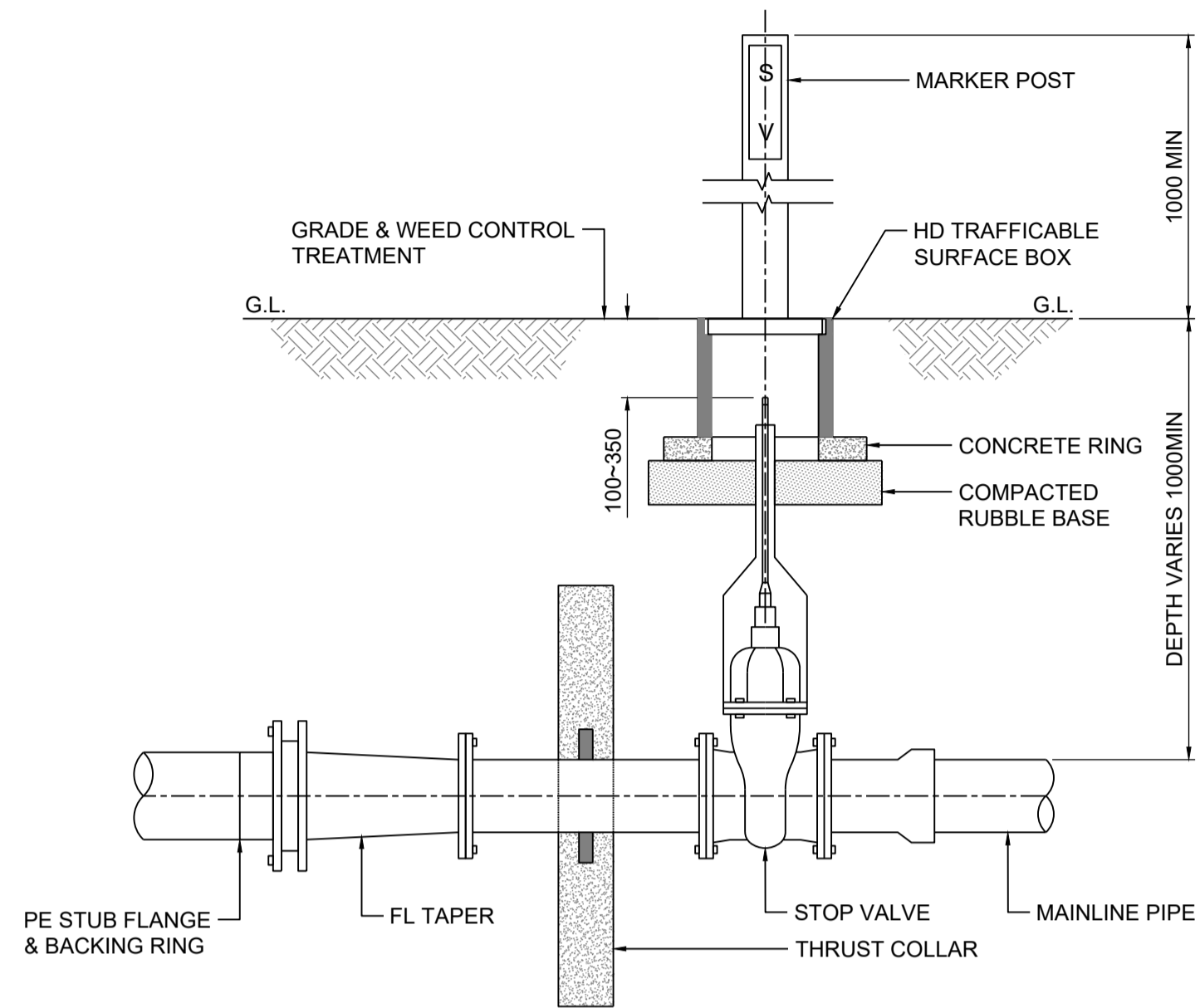
REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J.TERZIC	SCALE: 1:10	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	DATE: 30/09/25	REF MARK:

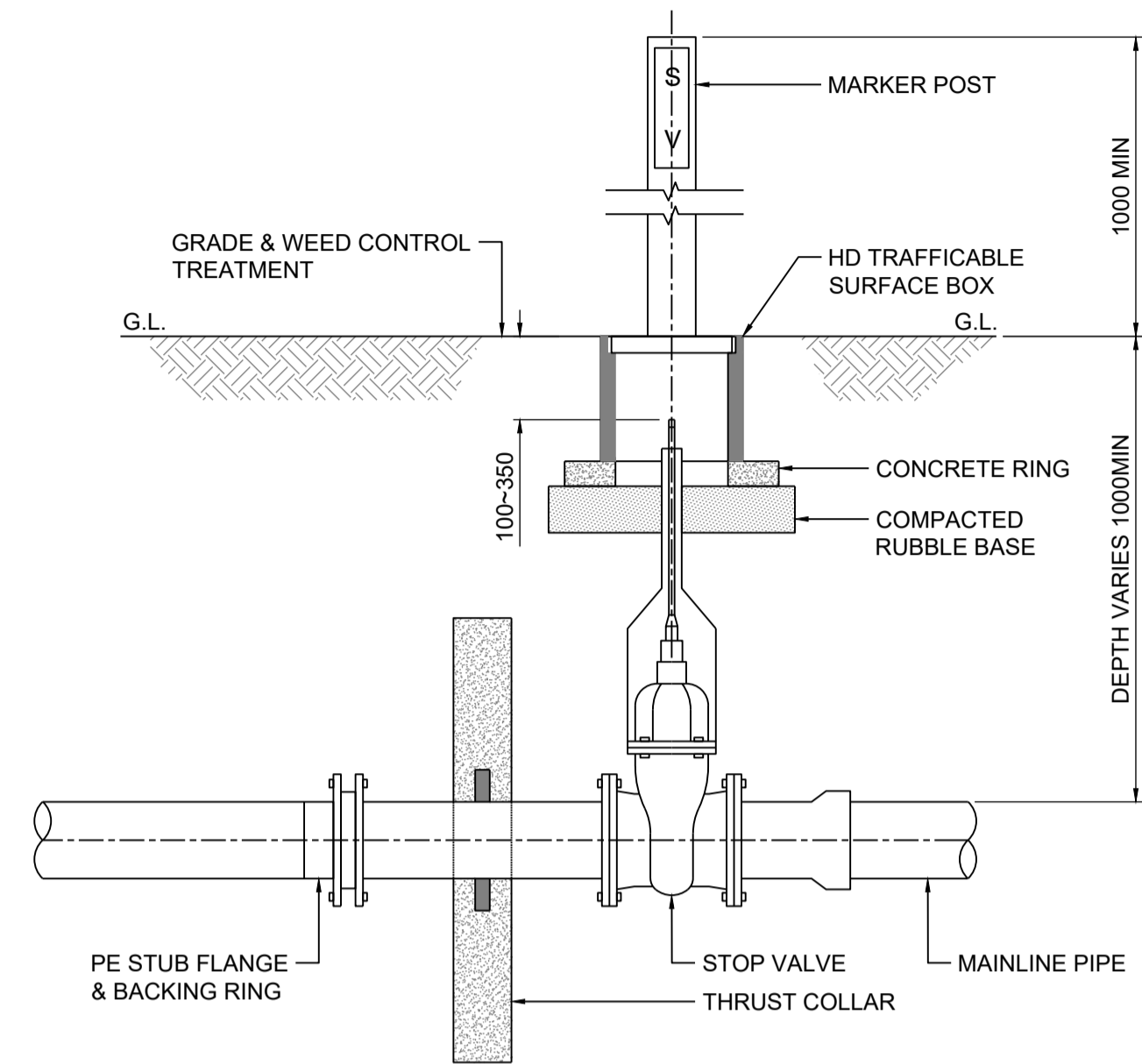

pinion
 ADVISORY

1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

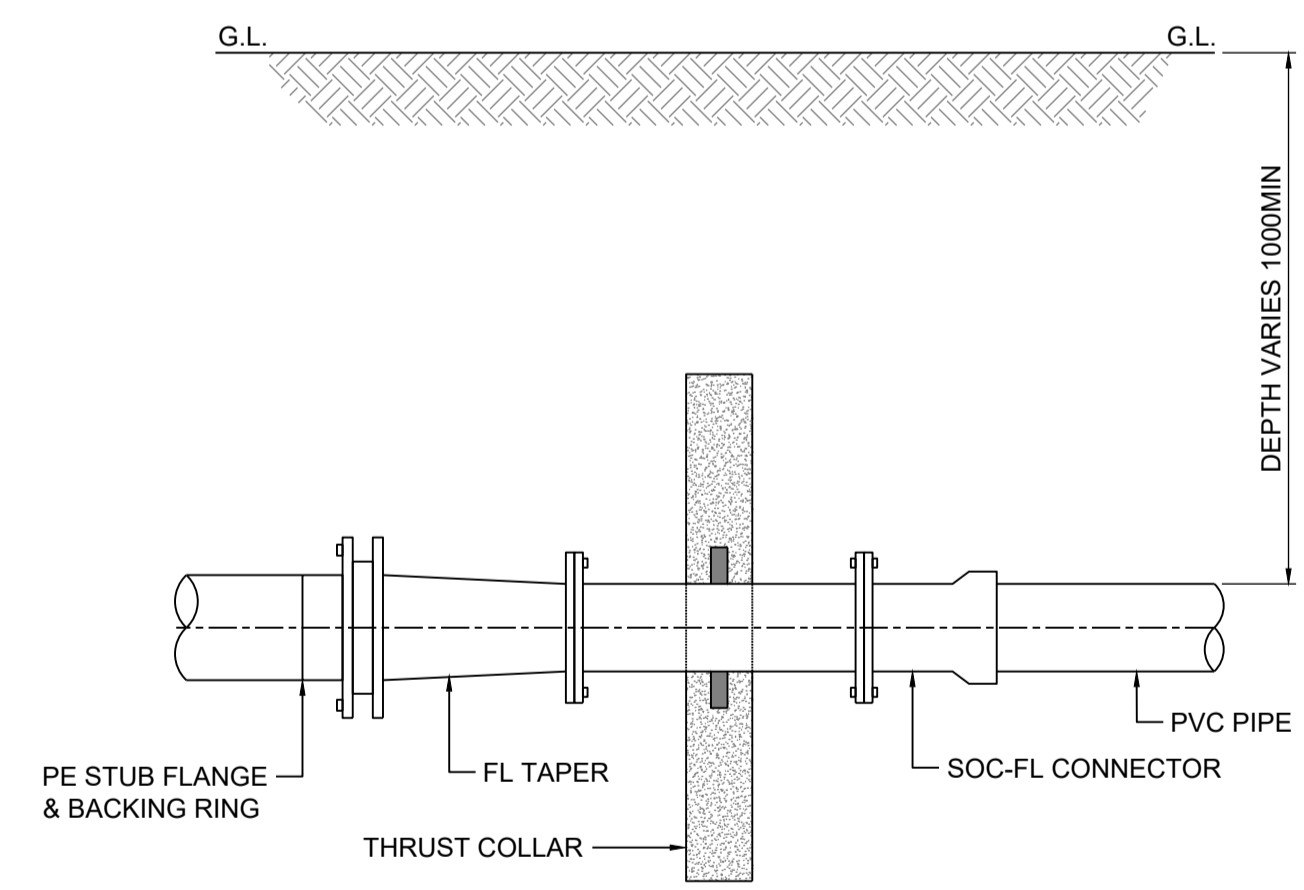
CLIENT: WILLUNGA BASIN WATER		
PROJECT: BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE: TYPICAL INSTALLATION DETAILS AIR VALVE & ISOLATION VALVE		
PROJECT REF: 17639	SHEET No.: 133	REV: D



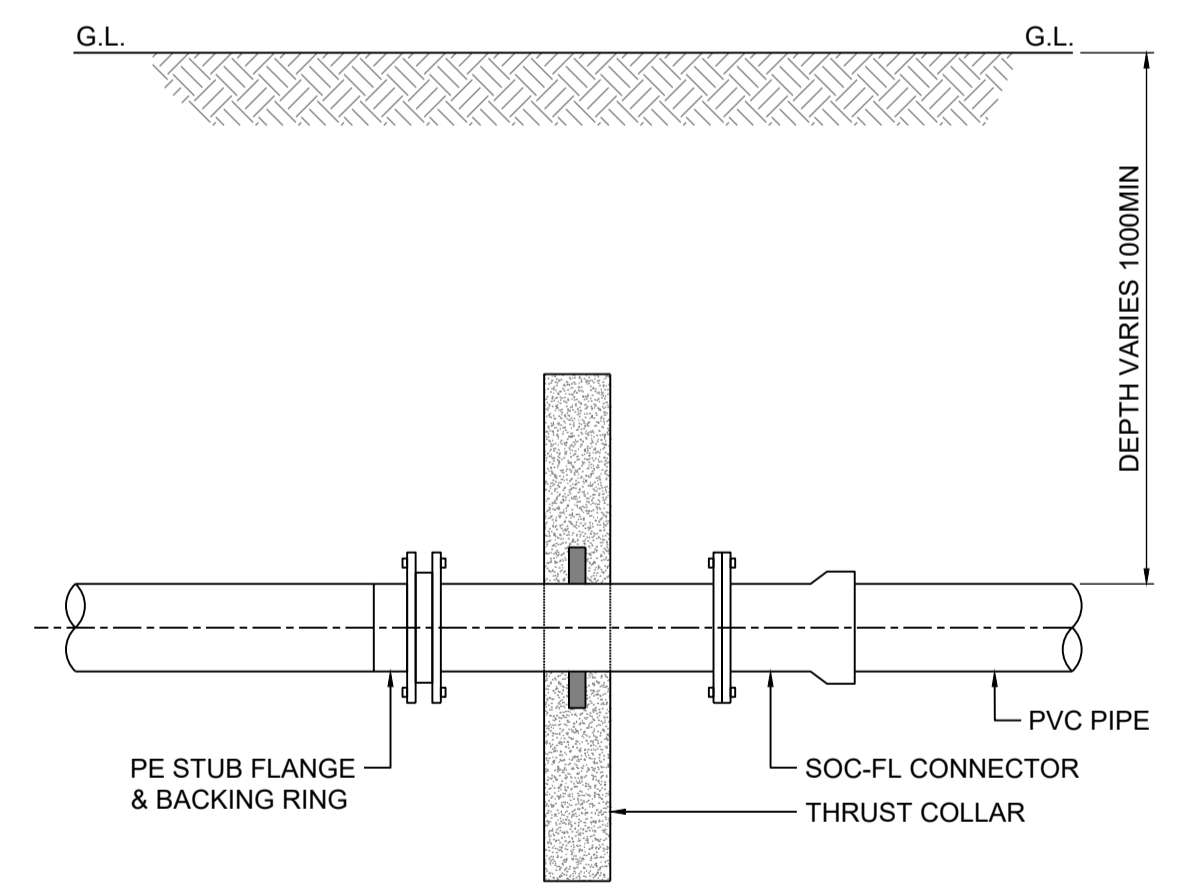
STOP VALVE & SURFACE BOX
PE TO PVC TRANSITION > DN250
TYPICAL ASSEMBLY 'A'
NOT TO SCALE



STOP VALVE & SURFACE BOX
PE TO PVC TRANSITION ≤ DN250
TYPICAL ASSEMBLY 'B'
NOT TO SCALE



PE TO PVC TRANSITION > DN250
TYPICAL ASSEMBLY 'C'
NOT TO SCALE



PE TO PVC TRANSITION ≤ DN250
TYPICAL ASSEMBLY 'D'
NOT TO SCALE

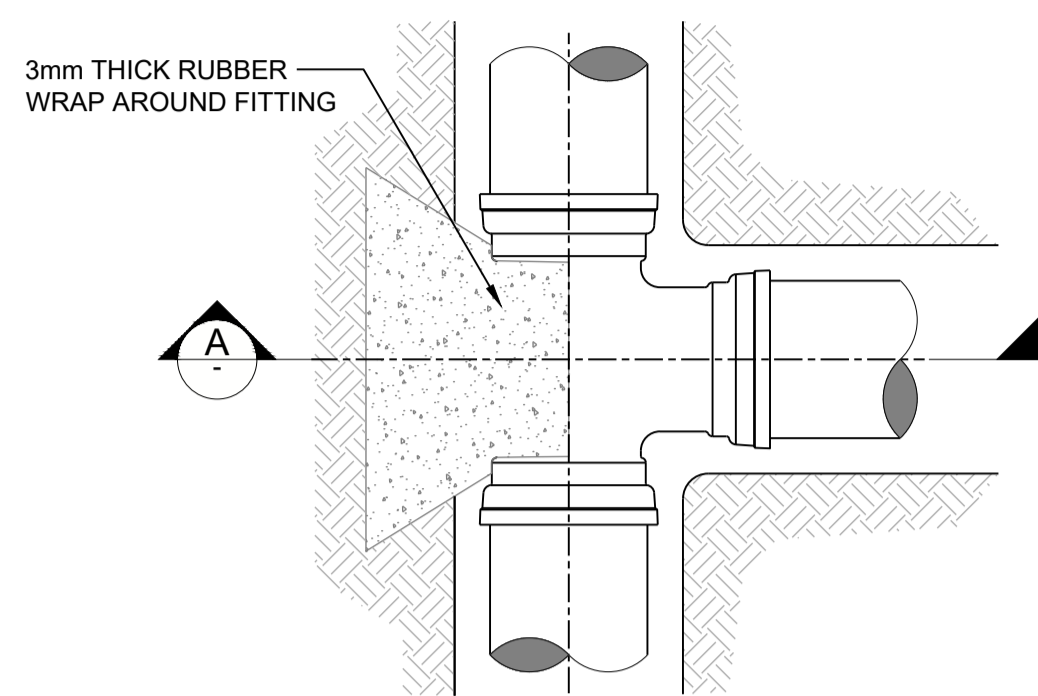
Drawing file: 17639-1000-PIPELINE-IT.dwg - Printed at 30/09/25 2:45:32 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

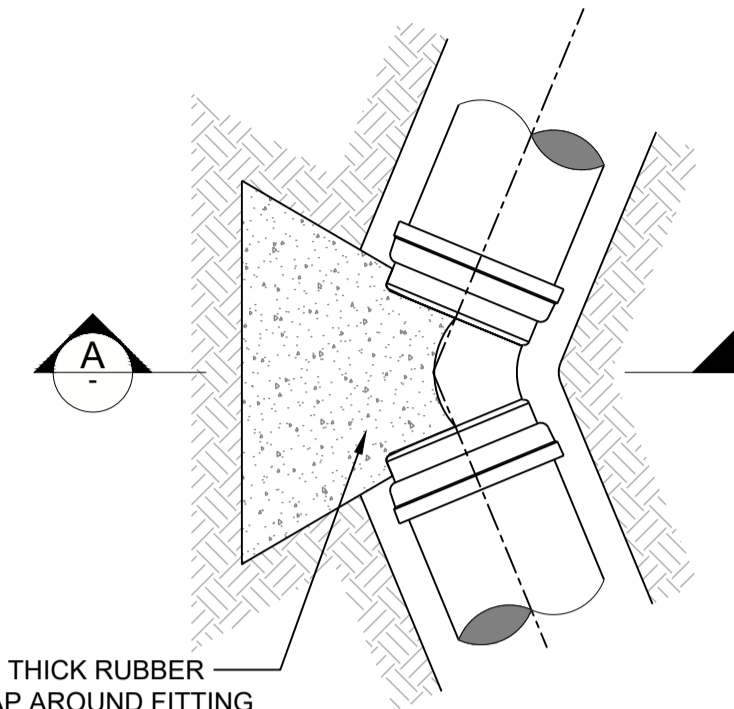
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: NOT TO SCALE	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission.		REF MARK:		

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

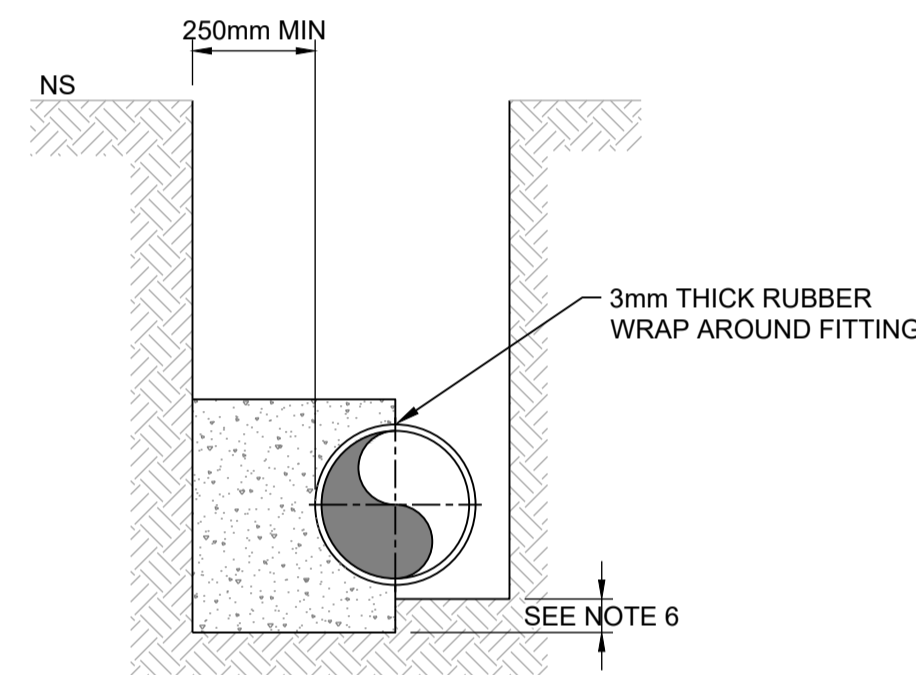
CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	TYPICAL INSTALLATION DETAILS PE TO PVC TRANSITION		
PROJECT REF:	17639	SHEET No.:	134
REV:			D



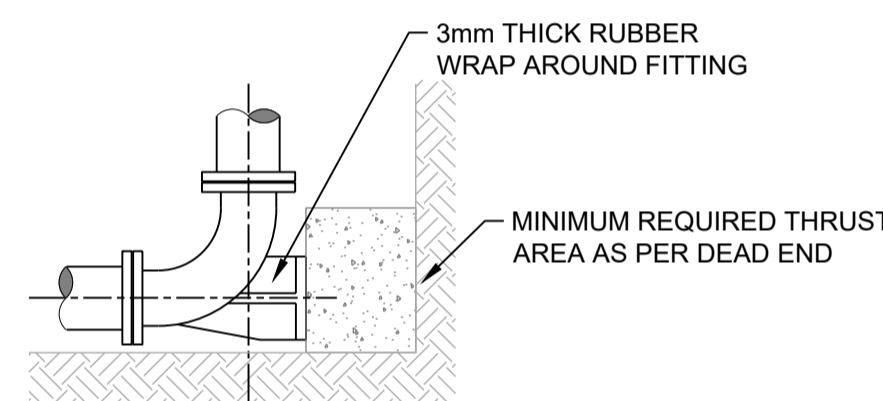
THRUST BLOCK FOR TEE
TYPICAL INSTALLATION DETAIL
SCALE 1:15



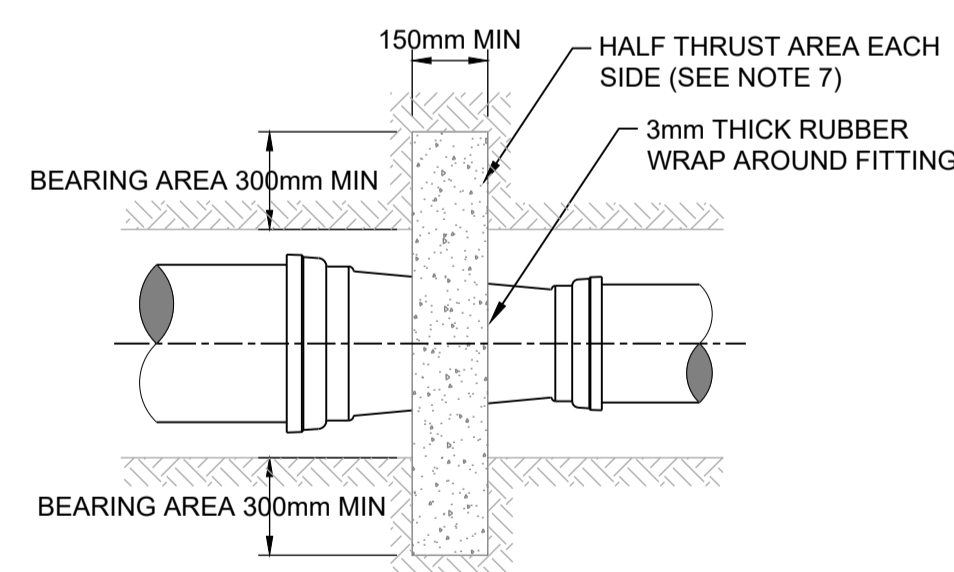
THRUST BLOCK FOR ELBOW
TYPICAL INSTALLATION DETAIL
SCALE 1:15



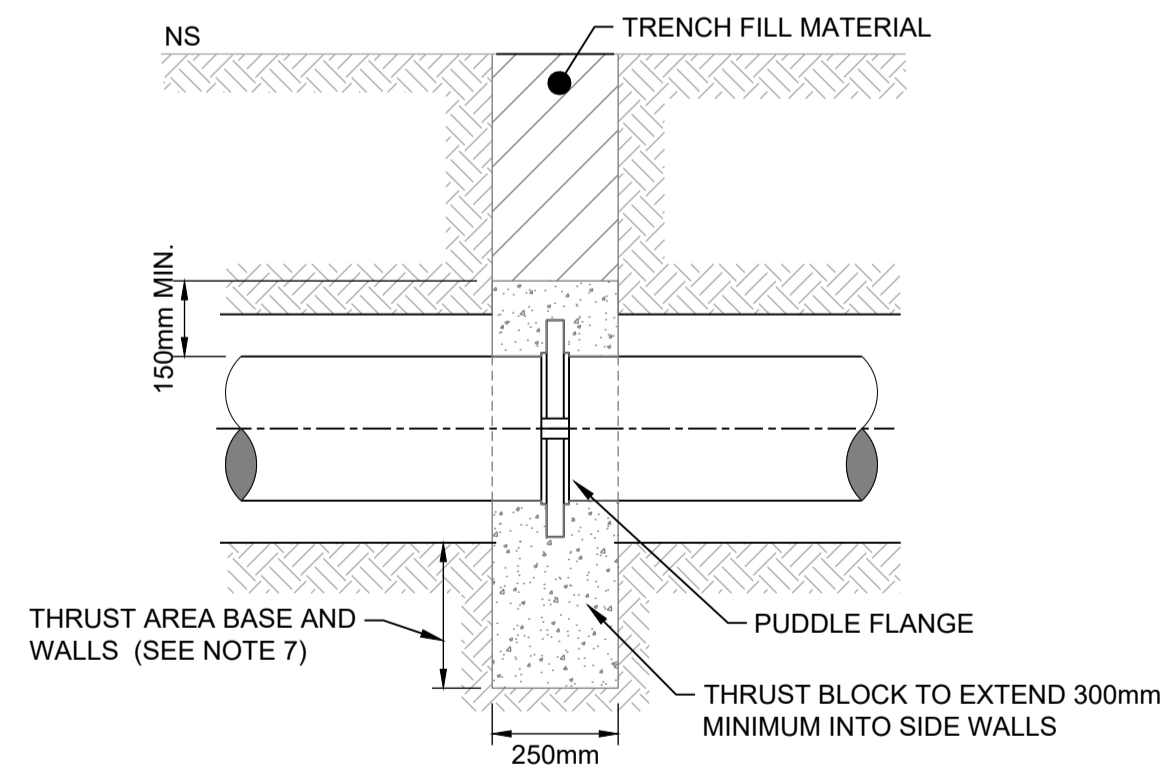
THRUST BLOCK FOR TEE & ELBOW
TYPICAL SECTION
SCALE 1:15



THRUST BLOCK FOR DUCK BEND
TYPICAL INSTALLATION DETAIL
SCALE 1:15



THRUST BLOCK FOR TAPERS & TRANSITION
TYPICAL INSTALLATION DETAIL
SCALE 1:15



THRUST BLOCK - INLINER
TYPICAL INSTALLATION DETAIL
SCALE 1:15

NOTES:

- ALL THRUST BLOCKS TO COMPLY WITH WSA 03-2011 WATER SUPPLY CODE OF AUSTRALIA VERSION 3.1.
- CAST THE THRUST AREA OF ALL THRUST BLOCKS AGAINST A CLEAN FACE OF UNDISTURBED NATURAL SOIL. THRUST BLOCKS NOT TO INTERFERE WITH OTHER SERVICES.
- SOIL CLASSIFICATIONS USED ON THIS DRAWING ARE EXPLAINED IN THE WATER SUPPLY CODE OF AUSTRALIA.
- A GEOTECHNICAL ASSESSMENT IS REQUIRED AS PER SPECIFICATIONS. DO NOT USE STANDARD THRUST BLOCKS AS SPECIFIED IN THIS DRAWING IN:
 - VERY SOFT, SOFT OR FIRM CLAY.
 - LOOSE CLEAN SAND.
 - UNCOMPACTED FILL OR REFUSE.
- THE NOMINAL THRUST AREA 'N' TO BE ACHIEVED BY POURING CONCRETE THE FULL LENGTH OF THE FITTING AND EXTENDING FROM THE FLOOR OF THE TRENCH TO ABOVE THE FITTING.
- FINISH THRUST BLOCKS APPROXIMATELY 100mm ABOVE THE TOP OF THE FITTING OR BEARING PAD AND EXTEND TO THE FLOOR OF THE TRENCH OR DEEPER IF NECESSARY TO ACHIEVE THE REQUIRED THRUST AREA. MAXIMUM ENCASEMENT TO BE 180°.
- THE MINIMUM THRUST AREA FOR TAPER THRUST BLOCKS TO BE EQUAL TO THE DIFFERENCE BETWEEN THE THRUST AREAS FOR DEAD ENDS OF EQUIVALENT DIAMETER TO THOSE EACH SIDE OF TAPER.

0 0.15 0.3 0.75
SCALE 1:15 METRES

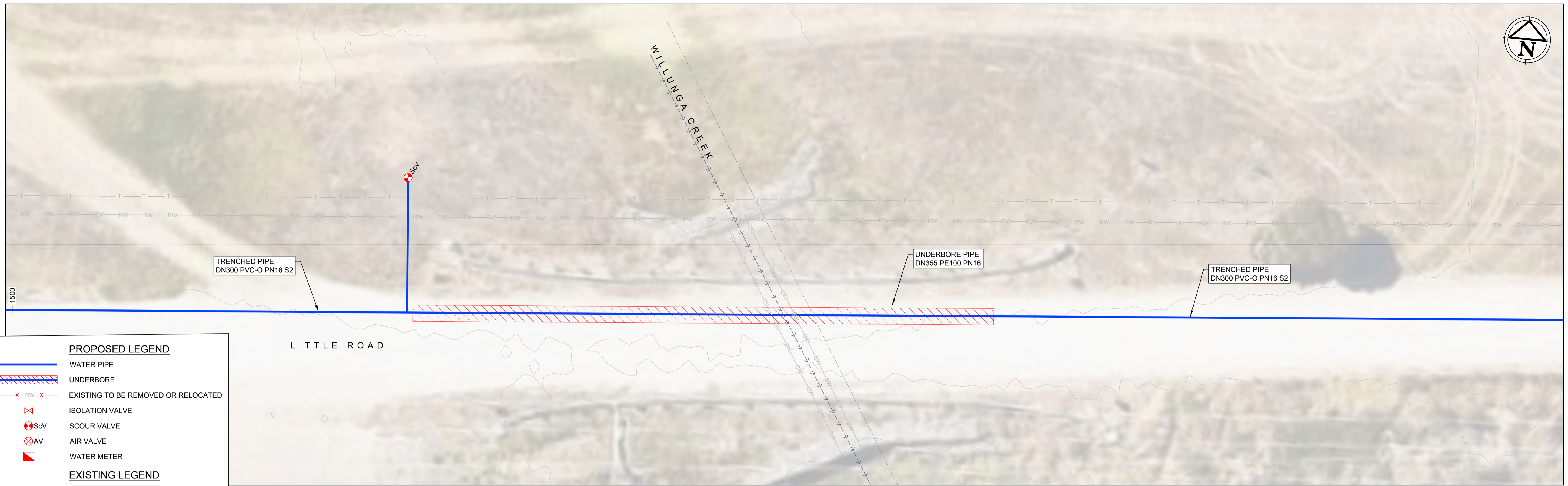
Drawing file: 17639-1000-PIPELINE-IT.dwg - Printed at 30/09/2025 2:49:45 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:15	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	REF MARK:


 1300 746 466
 pinionadvisory.com
 hello@pinionadvisory.com

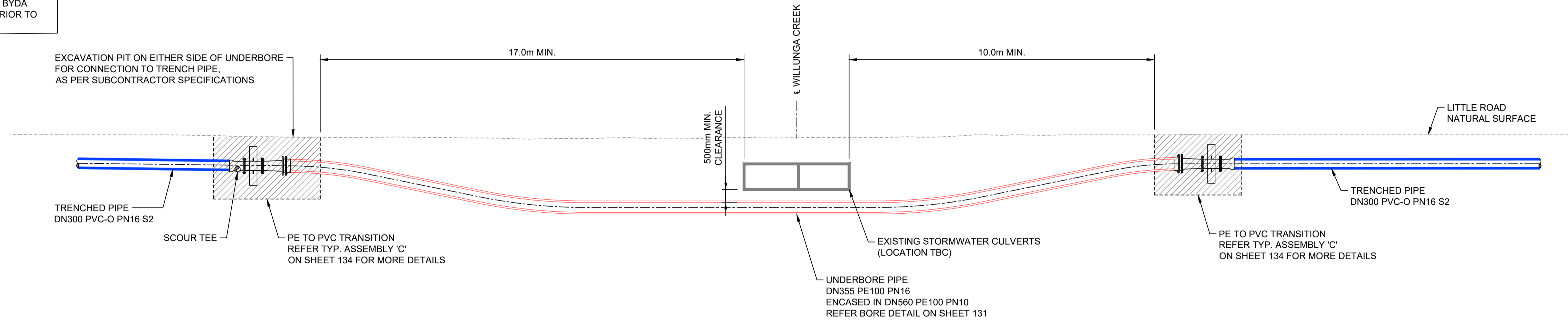
CLIENT: WILLUNGA BASIN WATER		
PROJECT: BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE: TYPICAL INSTALLATION DETAILS THRUST BLOCKS		
PROJECT REF: 17639	SHEET No.: 135	REV: D



PROPOSED LEGEND	
	WATER PIPE
	UNDERBORE
	EXISTING TO BE REMOVED OR RELOCATED
	ISOLATION VALVE
	SCOUR VALVE
	AIR VALVE
	WATER METER
EXISTING LEGEND	
	PROPERTY BOUNDARY
	FENCE
	CONTOUR
	WATER COURSE
	U/G WATER MAIN PIPE
	U/G RECYCLED WATER PIPE
	U/G STORM WATER PIPE
	U/G SEWER PIPE
	ELECTRICAL LINE
	U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)

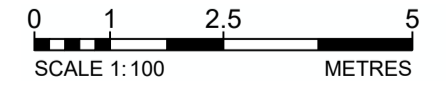
EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.

PLAN 141
SCALE 1:100



LONGITUDINAL SECTION
SCALE 1:100

NOTE :
THIS SHEET IS IN COLOUR AND
MUST BE REPRODUCED AS
SUCH TO MAINTAIN ACCURACY.



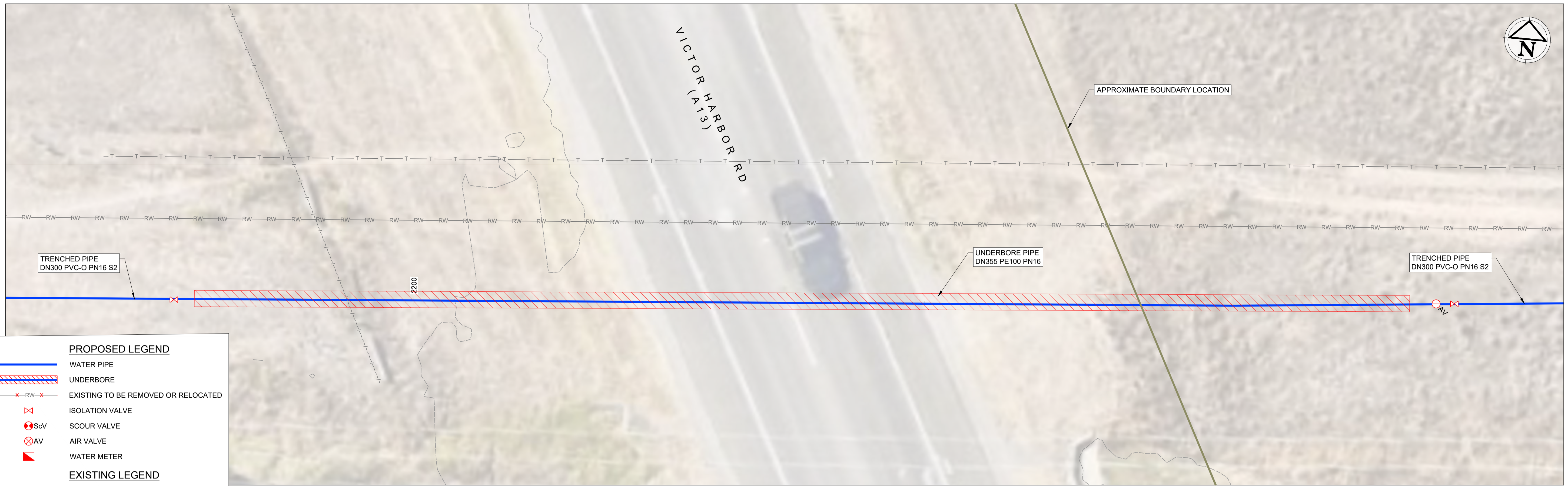
Drawing file: 17639-1000-PIPELINE-1.dwg - Printed at 30/09/25 2:47:09 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J.TERZIC	SCALE: 1:100	SHEET SIZE: A1
DESIGNER: J.TERZIC		CHECKED: M.ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M.ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54 , GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 30/09/25	REF MARK:	

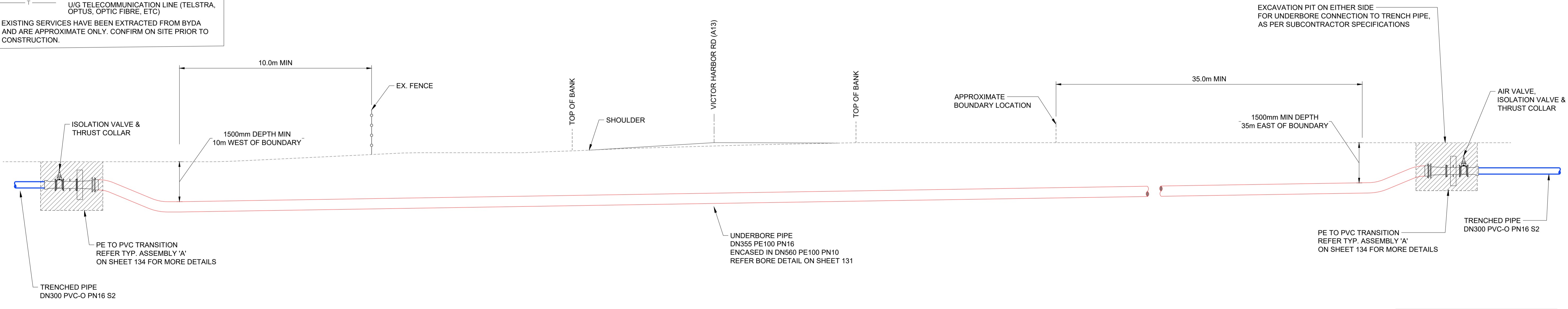
1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	CROSSING PLAN & PROFILE WILLUNGA CREEK UNDERBORE		
PROJECT REF:	17639	SHEET No.:	141
REV:			D



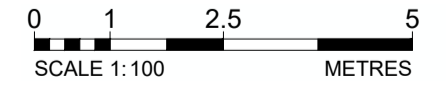
- PROPOSED LEGEND**
- WATER PIPE
 - UNDERBORE
 - EXISTING TO BE REMOVED OR RELOCATED
 - X ISOLATION VALVE
 - ScV SCOUR VALVE
 - AV AIR VALVE
 - ◻ WATER METER
- EXISTING LEGEND**
- PROPERTY BOUNDARY
 - FENCE
 - CONTOUR
 - WATER COURSE
 - U/G WATER MAIN PIPE
 - U/G RECYCLED WATER PIPE
 - U/G STORM WATER PIPE
 - ELECTRICAL LINE
 - U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)
- EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.

PLAN 142
SCALE 1:100



LONGITUDINAL SECTION
SCALE 1:100

NOTE:
ALL WORKS AND DOCUMENTATION TO COMPLY WITH DIT MASTER SPECIFICATION BORING PART RD-EW-C3



NOTE:
THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.

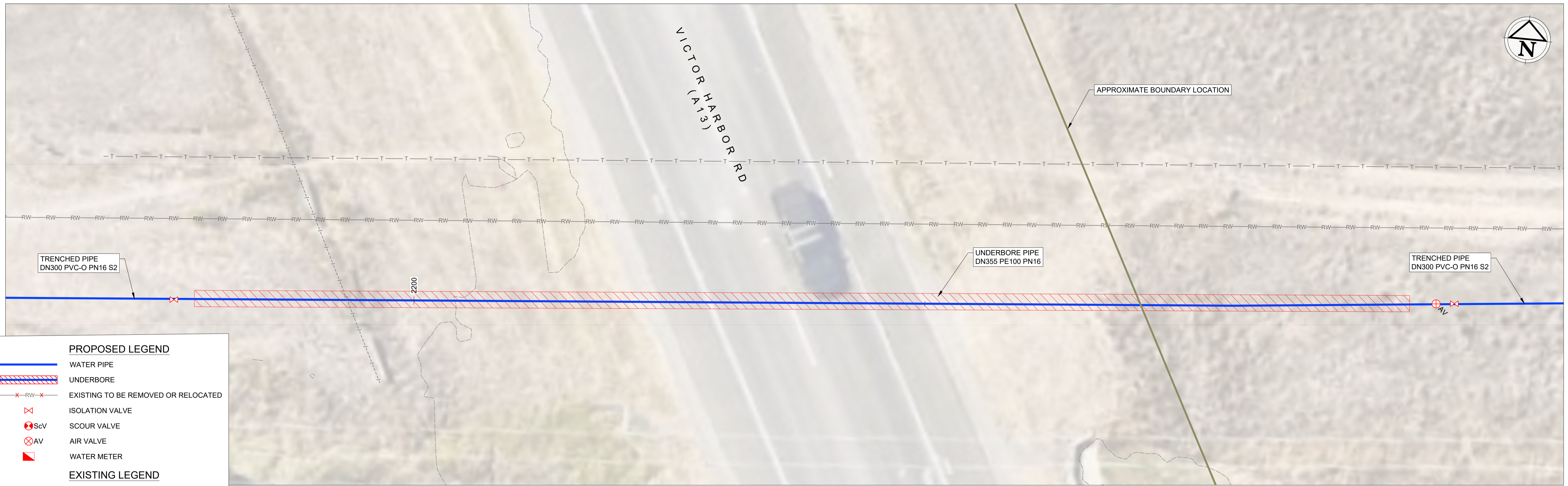
REV	DATE	DRAFT	DESCRIPTION
E	13/04/26	MG	FOR TENDER
D	02/10/25	JT	FOR TENDER
C	29/08/25	JT	90% DETAILED DESIGN
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J.TERZIC	SCALE: 1:100	SHEET SIZE: A1
DESIGNER: J.TERZIC		CHECKED: M.ALLEN	DATE: 13/04/26	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M.ALLEN		DATE: 13/04/26	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 13/04/26	REF MARK:	

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

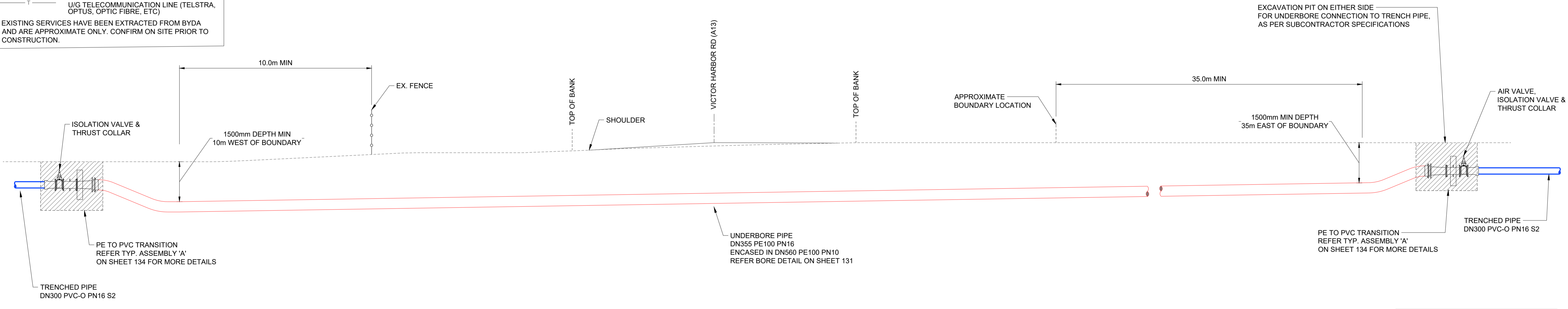
CLIENT: WILLUNGA BASIN WATER	PROJECT: BLEWITT SPRINGS STORAGE EXPANSION	
SHEET TITLE: CROSSING PLAN & PROFILE VICTOR HARBOR RD UNDERBORE		
PROJECT REF: 17639	SHEET No.: 142	REV: E

Drawing file: 17639-1000-PIPELINE.dwg - Plotter at: 13/04/2026 4:12:32 PM



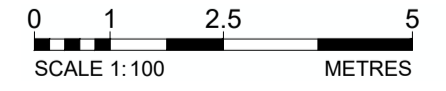
- PROPOSED LEGEND**
- WATER PIPE
 - UNDERBORE
 - x—rw—x EXISTING TO BE REMOVED OR RELOCATED
 - x ISOLATION VALVE
 - Scv SCOUR VALVE
 - AV AIR VALVE
 - WATER METER
- EXISTING LEGEND**
- PROPERTY BOUNDARY
 - - - - - FENCE
 - - - - - CONTOUR
 - - - - - WATER COURSE
 - W— U/G WATER MAIN PIPE
 - RW— U/G RECYCLED WATER PIPE
 - SW— U/G STORM WATER PIPE
 - E— ELECTRICAL LINE
 - T— U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)
- EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.

PLAN 142
SCALE 1:100



LONGITUDINAL SECTION
SCALE 1:100

NOTE:
ALL WORKS AND DOCUMENTATION TO COMPLY WITH DIT MASTER SPECIFICATION BORING PART RD-EW-C3



NOTE:
THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
E	13/04/26	MG	FOR TENDER				
D	02/10/25	JT	FOR TENDER				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

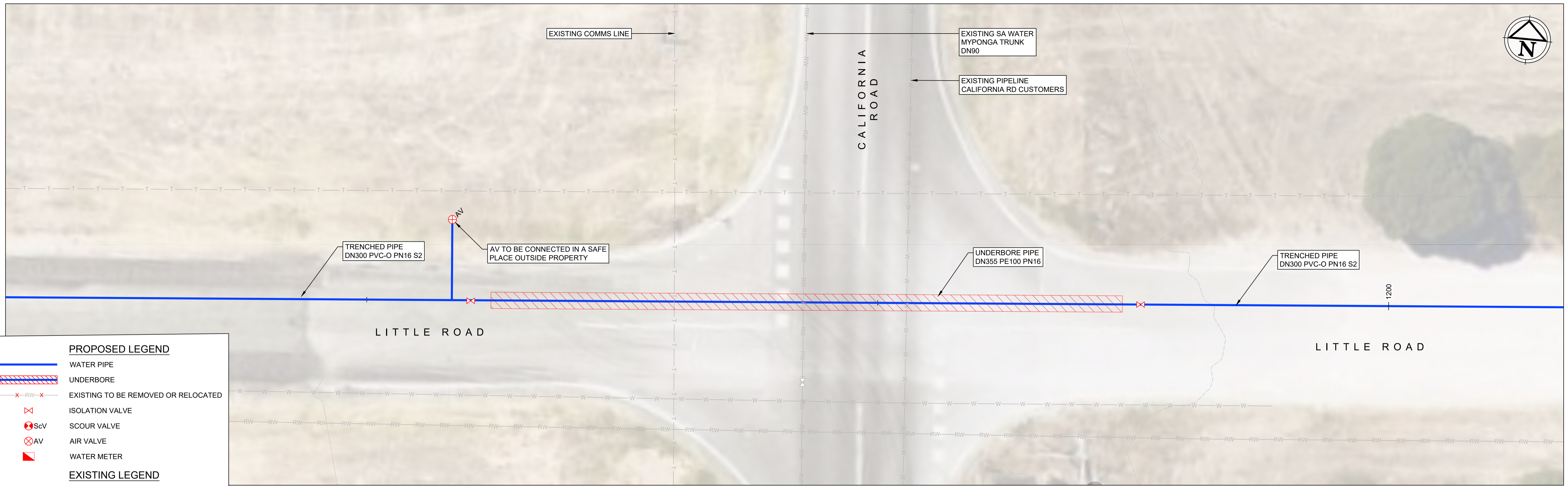
STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:100	SHEET SIZE: A1
CHECKED: M. ALLEN		DESIGNER: J. TERZIC	UNITS: ALL UNITS ARE IN METRES U.N.O.	
APPROVED: M. ALLEN		DATE: 13/04/26	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 13/04/26	REF MARK:	

pinion
ADVISORY

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT: WILLUNGA BASIN WATER	PROJECT: BLEWITT SPRINGS STORAGE EXPANSION	
SHEET TITLE: CROSSING PLAN & PROFILE VICTOR HARBOR RD UNDERBORE		
PROJECT REF: 17639	SHEET No.: 142	REV: E

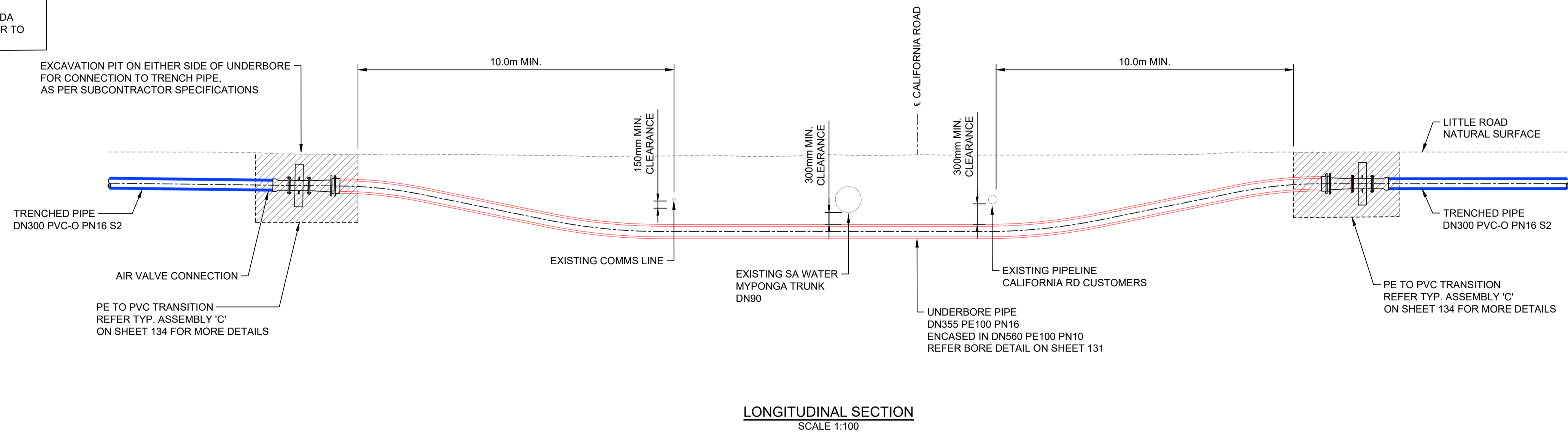
Drawing file: 17639-1000-PIPELINE.dwg - Plotter at: 13/04/2026 4:12:32 PM



PLAN 143
SCALE 1:100

PROPOSED LEGEND	
	WATER PIPE
	UNDERBORE
	EXISTING TO BE REMOVED OR RELOCATED
	ISOLATION VALVE
	SCOUR VALVE
	AIR VALVE
	WATER METER
EXISTING LEGEND	
	PROPERTY BOUNDARY
	FENCE
	CONTOUR
	WATER COURSE
	U/G WATER MAIN PIPE
	U/G RECYCLED WATER PIPE
	U/G STORM WATER PIPE
	U/G SEWER PIPE
	ELECTRICAL LINE
	U/G TELECOMMUNICATION LINE (TELSTRA, OPTUS, OPTIC FIBRE, ETC)

EXISTING SERVICES HAVE BEEN EXTRACTED FROM BYDA AND ARE APPROXIMATE ONLY. CONFIRM ON SITE PRIOR TO CONSTRUCTION.



LONGITUDINAL SECTION
SCALE 1:100

NOTE : THIS SHEET IS IN COLOUR AND MUST BE REPRODUCED AS SUCH TO MAINTAIN ACCURACY.



Drawing file: 17639-1000-PIPELINE-1.dwg - Printed at 30/09/2025 2:45:00 PM

REV	DATE	DRAFT	DESCRIPTION	REV	DATE	DRAFT	DESCRIPTION
D	22/09/25	JT	FOR APPROVAL				
C	29/08/25	JT	90% DETAILED DESIGN				
B	27/06/25	MG	PRELIMINARY - FOR INFORMATION				
A	20/06/25	JT	PRELIMINARY - FOR INFORMATION				

STATUS: TENDER ISSUE NOT FOR CONSTRUCTION		DRAFTER: J. TERZIC	SCALE: 1:100	SHEET SIZE: A1
DESIGNER: J. TERZIC		CHECKED: M. ALLEN	DATE: 30/09/25	UNITS: ALL UNITS ARE IN METRES U.N.O.
APPROVED: M. ALLEN		DATE: 30/09/25	COORDINATE SYSTEM: MGA ZONE 54, GDA 94 ALL LEVELS ARE TO AHD	
COPYRIGHT: This document is and shall remain the property of PINION ADVISORY PTY. LTD. The document may only be used for the purpose for which it was commissioned and in accordance with the terms of engagement for the commission. The arrangement and general details as shown on this drawing are essentially diagrammatic and must be applied to the circumstances as found on site.		DATE: 30/09/25	REF MARK:	

1300 746 466
pinionadvisory.com
hello@pinionadvisory.com

CLIENT:	WILLUNGA BASIN WATER		
PROJECT:	BLEWITT SPRINGS STORAGE EXPANSION		
SHEET TITLE:	CROSSING PLAN & PROFILE CALIFORNIA RD UNDERBORE		
PROJECT REF:	17639	SHEET No.:	143
REV:			D