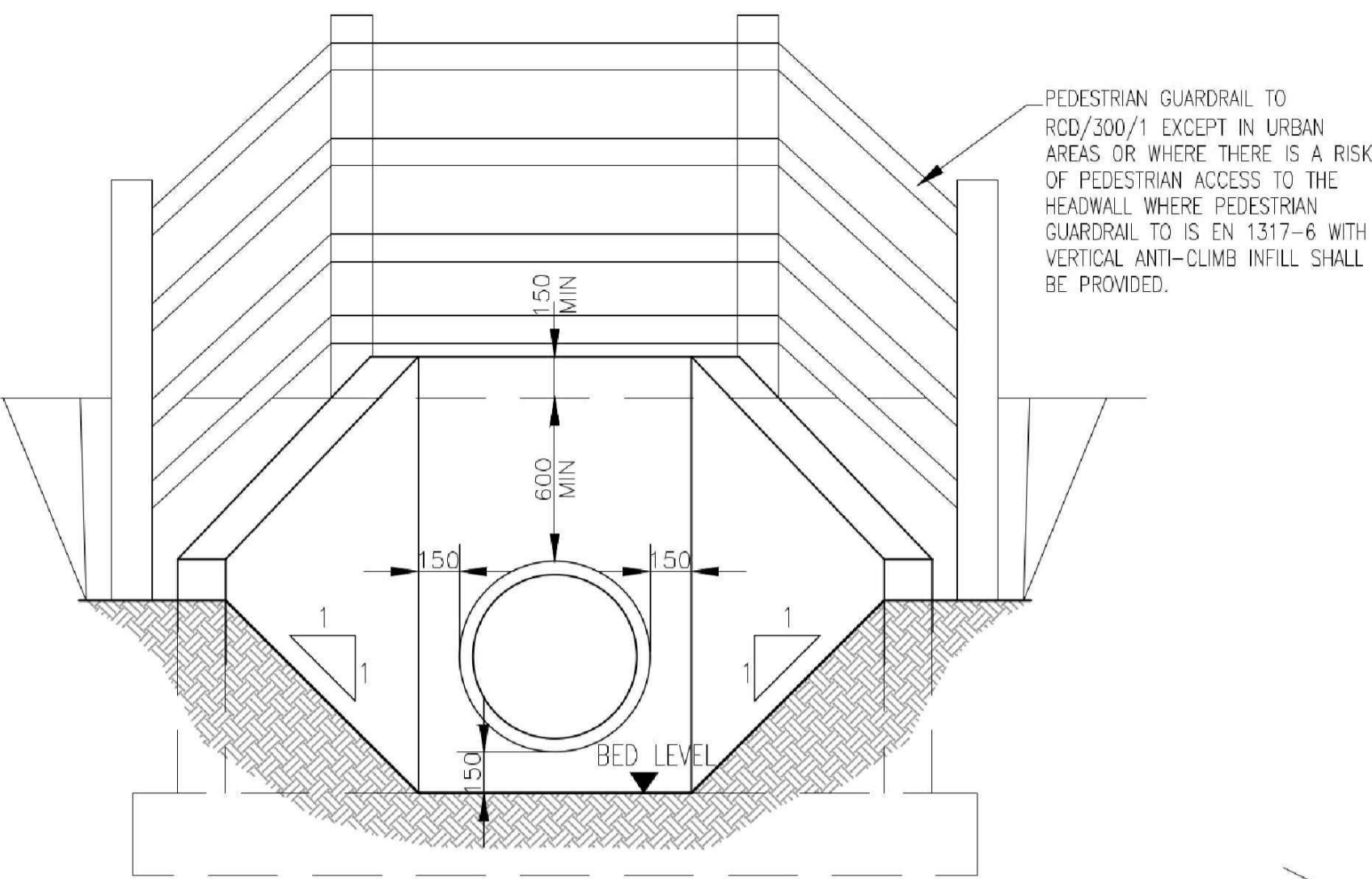
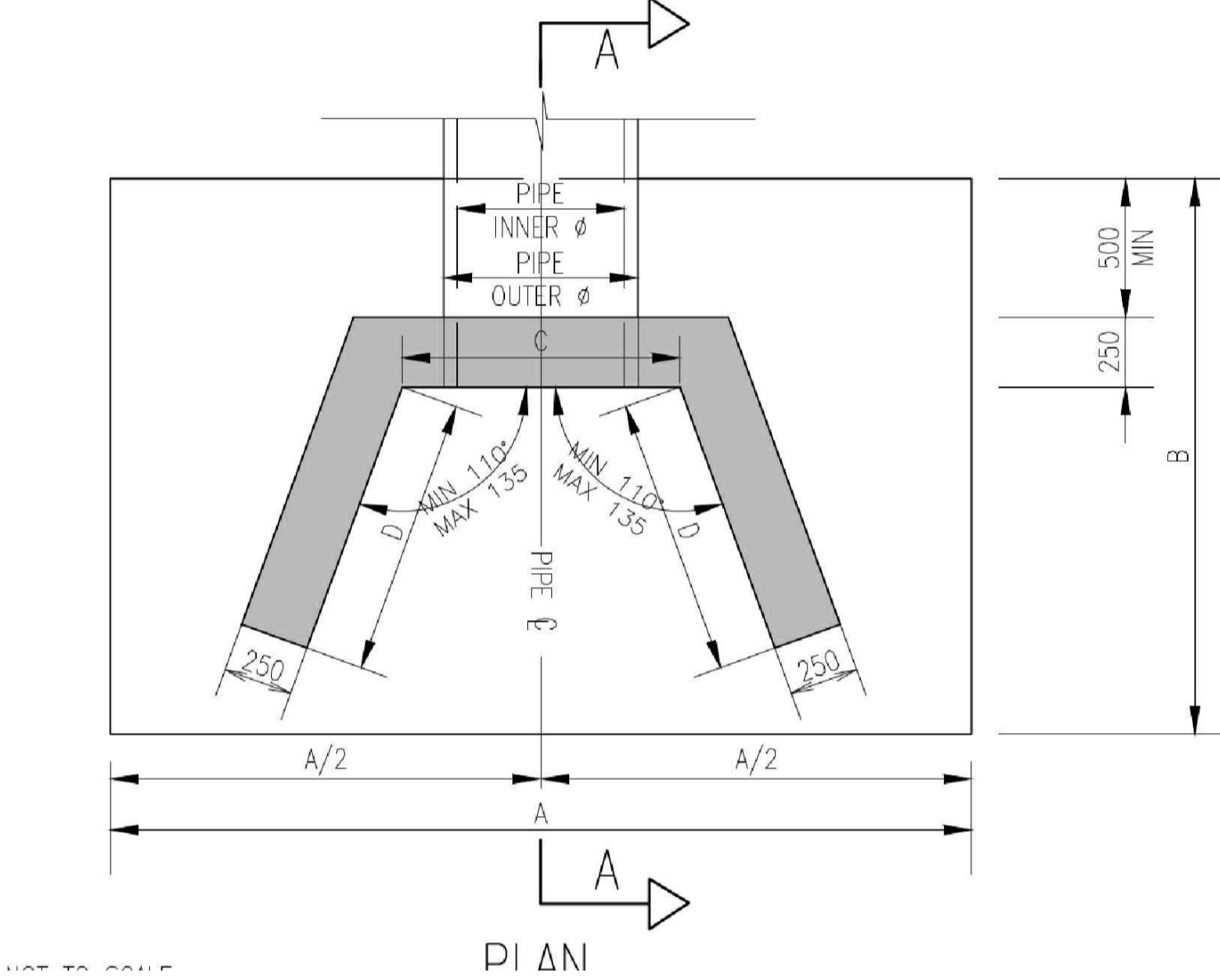


This drawing should not be scaled. Dimensions to be verified on site. Any discrepancies should be referred to the Engineer prior to work being put in hand. This drawing is the property of Waterman Moylan Consulting Engineers Limited and is issued on the condition that it is not copied, reproduced, retained or disclosed to any unauthorized person, either wholly or in part without the consent in writing of Waterman Moylan Consulting Engineers Limited. Block 5, East Point Business Park, Dublin D03 H3F4, Ireland. 1-1553 1 664 8900.

NOTES:
 1. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
 2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.

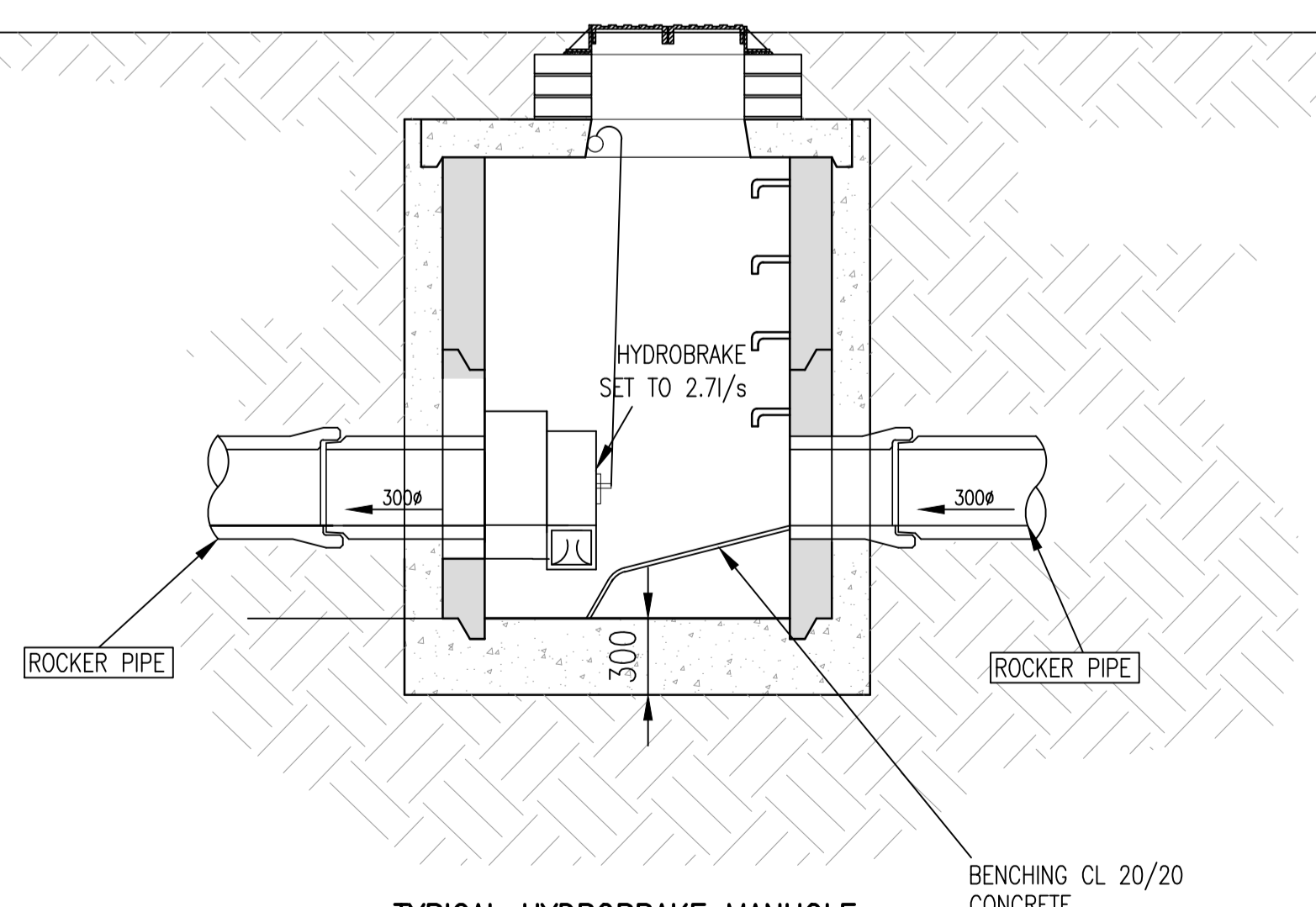


ELEVATION



PLAN

TYPICAL HEADWALL DETAIL
N.T.S.



TYPICAL HYDROBRAKE MANHOLE
SCALE 1:25

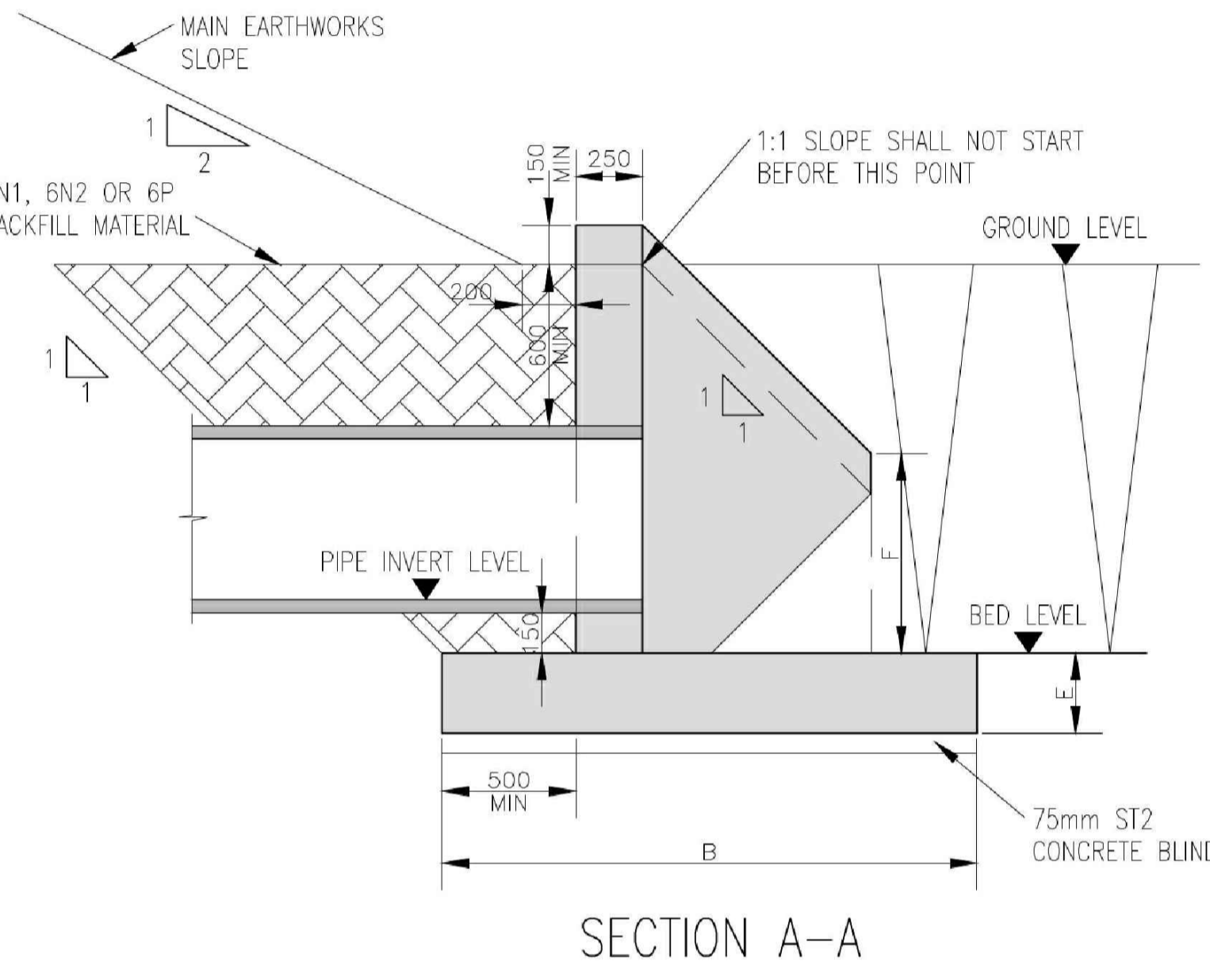
NOTE: FOR FURTHER DETAILS ON MANHOLE CONSTRUCTION PLEASE REFER TO DRAWING C210 FOR DETAILS

SCHEDULE OF MINIMUM DIMENSIONS						
PIPE INNER Ø	A	B	C	D	E	F
<= 300	2000	2000	PIPE OUTER Ø + 300	1000	400	500
301-600	2500	2500	PIPE OUTER Ø + 300	1250	400	600
601-900	3200	3200	PIPE OUTER Ø + 300	1550	500	700
901-1200	3900	3900	PIPE OUTER Ø + 300	1850	500	800
1201-1500	4700	4700	PIPE OUTER Ø + 300	2150	500	900
1501-1800	5200	5200	PIPE OUTER Ø + 300	2350	500	1000

THE DIMENSIONS CONTAINED IN THE TABLE ABOVE ARE MINIMUMS ONLY AND THE DESIGNER SHALL CONFIRM DETAILS FOR SPECIFIC SITE CONDITIONS. THE DIMENSIONS CONTAINED IN THE TABLE ABOVE ARE BASED ON THE FOLLOWING CONSTRAINTS:

- ANGLE BETWEEN HEADWALL AND WINGWALL IS 110°;
- BACKFILL MATERIAL IS FREE DRAINING;
- THERE ARE NO LIVE LOAD EFFECTS ON THE HEADWALL;
- CHARACTERISTIC VALUE OF INTERNAL FRICTION (φ) OF THE BACKFILL MATERIAL = 37.5°;
- 600mm COVER TO THE PIPE AT THE REAR OF THE HEADWALL, WITH A 200mm WIDE FLAT AREA BEFORE THE COMMENCEMENT OF THE MAIN EARTHWORKS SLOPE;
- SLOPE OF FILL MEASURED FROM THE REAR FACE OF THE WINGWALLS DOWNWARDS AND FROM BED LEVEL UPWARDS ARE BOTH TO BE 1:1

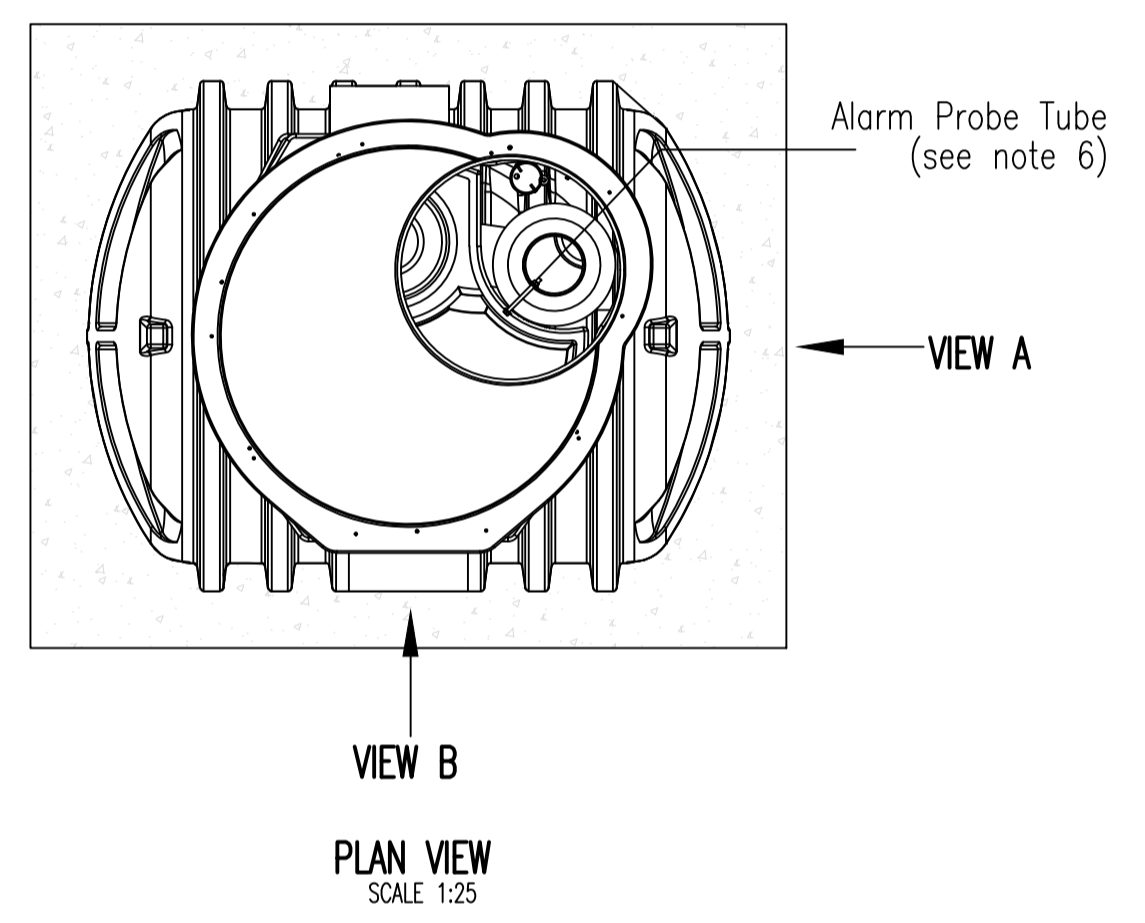
- NOTES :
- ALL DIMENSIONS ARE MILLIMETRES.
 - THIS RCD IS ONLY TO BE USED IN ASSOCIATION WITH A UNIQUE STRUCTURAL DESIGN. THIS DESIGN IS TO CARRIED OUT IN ACCORDANCE WITH THE NRA REQUIREMENTS FOR THE USE OF EUROCODES FOR THE DESIGN OF ROAD STRUCTURES.
 - REINFORCED CONCRETE SHALL BE A MINIMUM GRADE OF C32/40. ALL STRUCTURAL CONCRETE SHALL BE SPECIFIED IN ACCORDANCE WITH SERIES 1700 OF THE NRA MCDRW.
 - ALL BLINDING CONCRETE SHALL BE ST2 IN ACCORDANCE WITH IS EN 206.
 - THE MINIMUM COVER TO REINFORCEMENT FOR DURABILITY SHALL BE IN ACCORDANCE WITH NRA BD 57. MINIMUM EXPOSURE CLASS TO BE XC4.
 - ANY RESULTING VOID BETWEEN THE OUTSIDE OF THE PIPE AND THE OPE IN THE HEADWALL SHALL BE FILLED WITH NON-COMPRESSIBLE HIGH STRENGTH GROUT.
 - ALL EXPOSED CONCRETE SURFACES FROM 100mm BELOW GROUND LEVEL TO BE CLASS U4/F4 FINISH. ALL OTHER CONCRETE SURFACES TO BE CLASS U1/F1 FINISH UNLESS OTHERWISE SPECIFIED.
 - HEADWALL WINGWALLS TO BE SLOPED AND SHALL MAINTAIN A MINIMUM HEIGHT OF 150mm ABOVE ADJACENT BACKFILL LEVEL.
 - RENDERED CONCRETE BLOCKWORK MAY BE USED AS AN ALTERNATIVE TO IN-SITU OR PRECAST CONCRETE FOR PIPES UP TO 300mm INNER DIAMETER.
 - ALL HEADWALLS SHALL BE BACKFILLED WITH CLASS 6N1, 6N2 OR 6P BACKFILL MATERIAL. HEADWALLS SHALL BE FOUNDED ON A MINIMUM 75mm LAYER OF ST2 BLINDING CONCRETE. DETAILS OF THE SUB-BASE LAYER TO BE CONFIRMED BASED ON SITE CONDITIONS.
 - ROCK ARMOUR AND/OR GABION HEADWALLS AND WINGWALLS ARE PROHIBITED.



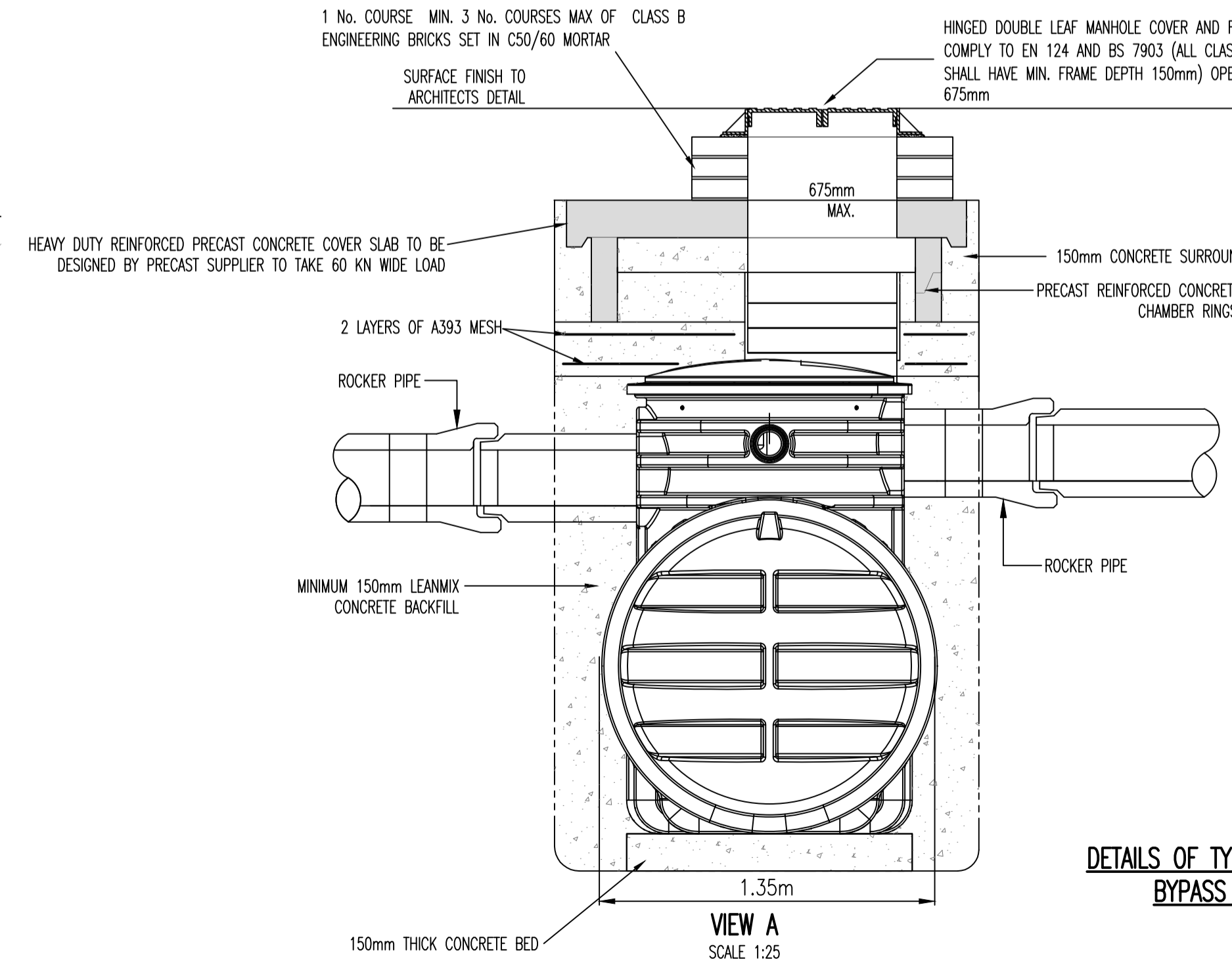
SECTION A-A

Outlet Size 'B'	Inlet Size 'A'	Fall across unit	Approx Empty Weight (kgs)	Dim L (mm)	Nominal Flow	Unit Ref No
Ø300mm	Ø300mm	100	180	1700	2.7L/s	NSBP003

- Notes:-
- Inlet/Outlet pipes are plain pipe standard EN 858 states minimum connection sizes, units ordered with different sized connections are not fully compliant with the standard.
 - Extension necks for deeper inverts can be provided. These can be cut in 200 mm sections. Max 2.0m Invert recommended. Please ask our sales department for further details.
 - All units require appropriate cover and frame to suit applied loadings.
 - This drawing should be used for dimensional information only. It is essential that this drawing is read in conjunction with the installation guidelines from the supplier. 76 mm tube (internal) is supplied to house an oil alarm probe.
 - Wet site conditions - Concrete Backfill Dry site conditions - Pea Shingle Backfill
 - A Ø 76 mm tube (internal) is supplied to house an oil alarm probe.



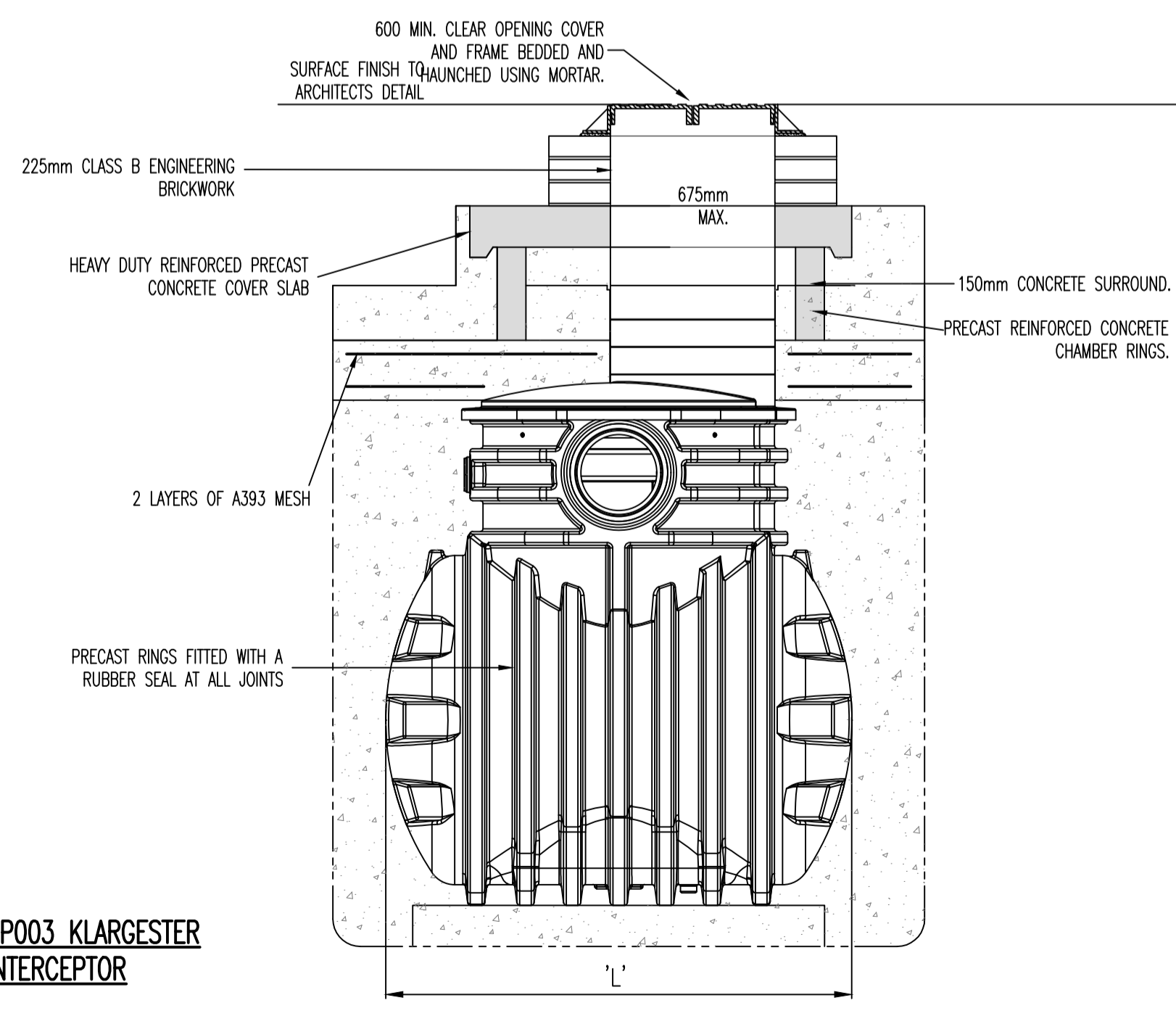
PLAN VIEW
SCALE 1:25



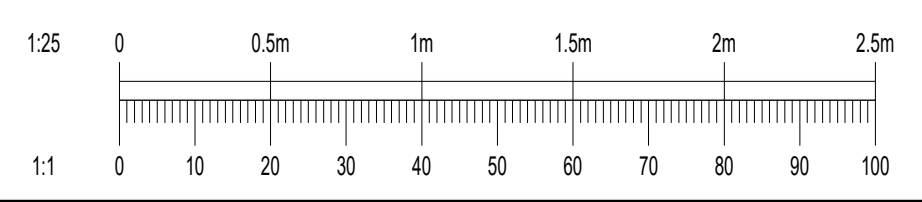
VIEW A
SCALE 1:25

DETAILS OF TYPICAL NSBP003 KLARGESTER BYPASS PETROL INTERCEPTOR

CONTRACTOR TO ALLOW FOR APPROPRIATELY SIZED CLASS 1 BYPASS SEPARATORS TO PIPE SIZES AND FLOW RATES NOTED ON PLAN LAYOUT



VIEW B
SCALE 1:25



Rev	Date	Description	By	CHK
Amendments				
Project: PHASE 1, MOORETOWN				
Title: HEADWALL, HYDROBRAKE & PETROL INTERCEPTOR DETAILS				
Client: FINGAL COUNTY COUNCIL				
BLOCK 5, EASTPOINT BUSINESS PARK, ALFIE BYRNE ROAD, DUBLIN D03 H3F4 IRELAND. Tel: (01) 664 8900. Email: info@waterman-moylan.ie www.waterman-moylan.ie				
Status: PUBLIC DISPLAY				
Designed By	RM	Approved	MD	Waterman Ref: 23-102
Drawn By	MS	Date	MARCH 2024	Scales @ A1: 1:25
Project - Originator - Volume - Level - Type - Rate - Number				Revision
MTN - WMC - PH1 - ZZ - DR - C - P1230				

Drawing Location: M:\Projects\23025-102 Mooretown\Drawings\Waterman Moylan\Civil\Planning\Autocad Drawings\PHASE 1\MTN-WMC-PH1-ZZ-DR-C-P1230 Headwall, Hydrobrake & Petrol Interceptor Details.dwg Date: Aug 28, 2024 11:49am