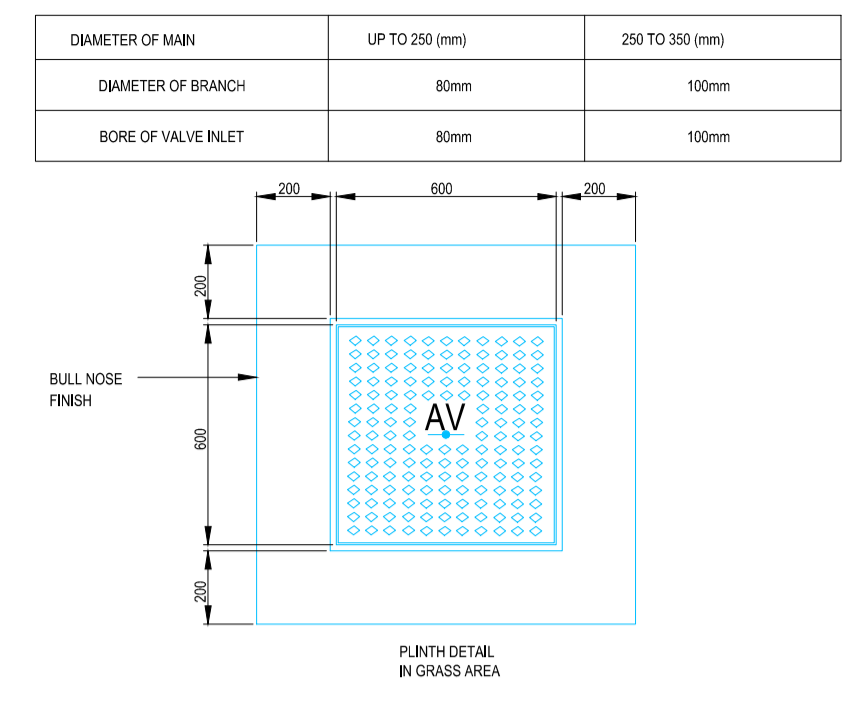
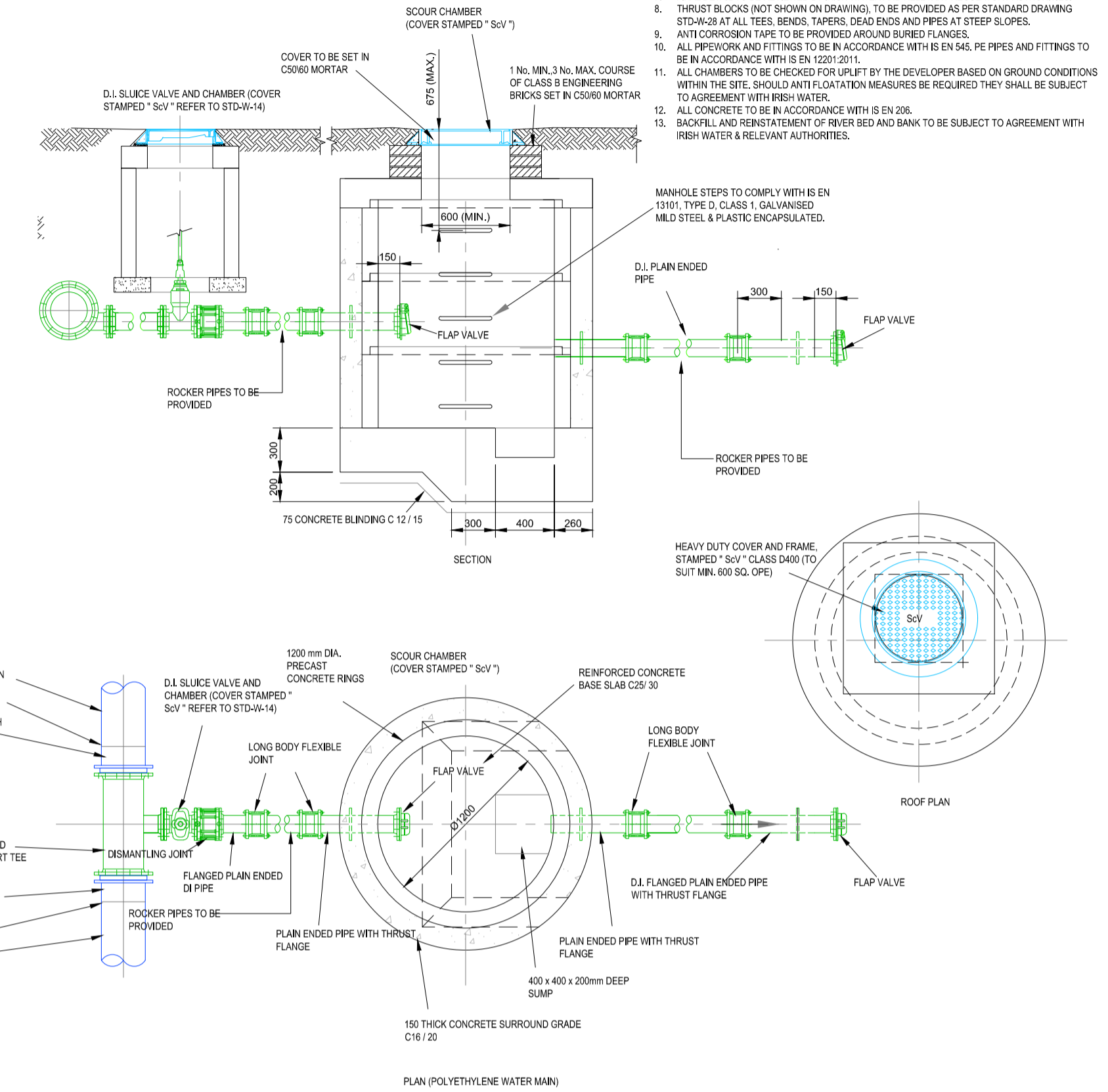


ON - LINE AIR VALVE FOR DUCTILE IRON (D.I.) PIPE
(BASED ON IRISH WATER STANDARD DETAIL STD-W-20 Rev 2)

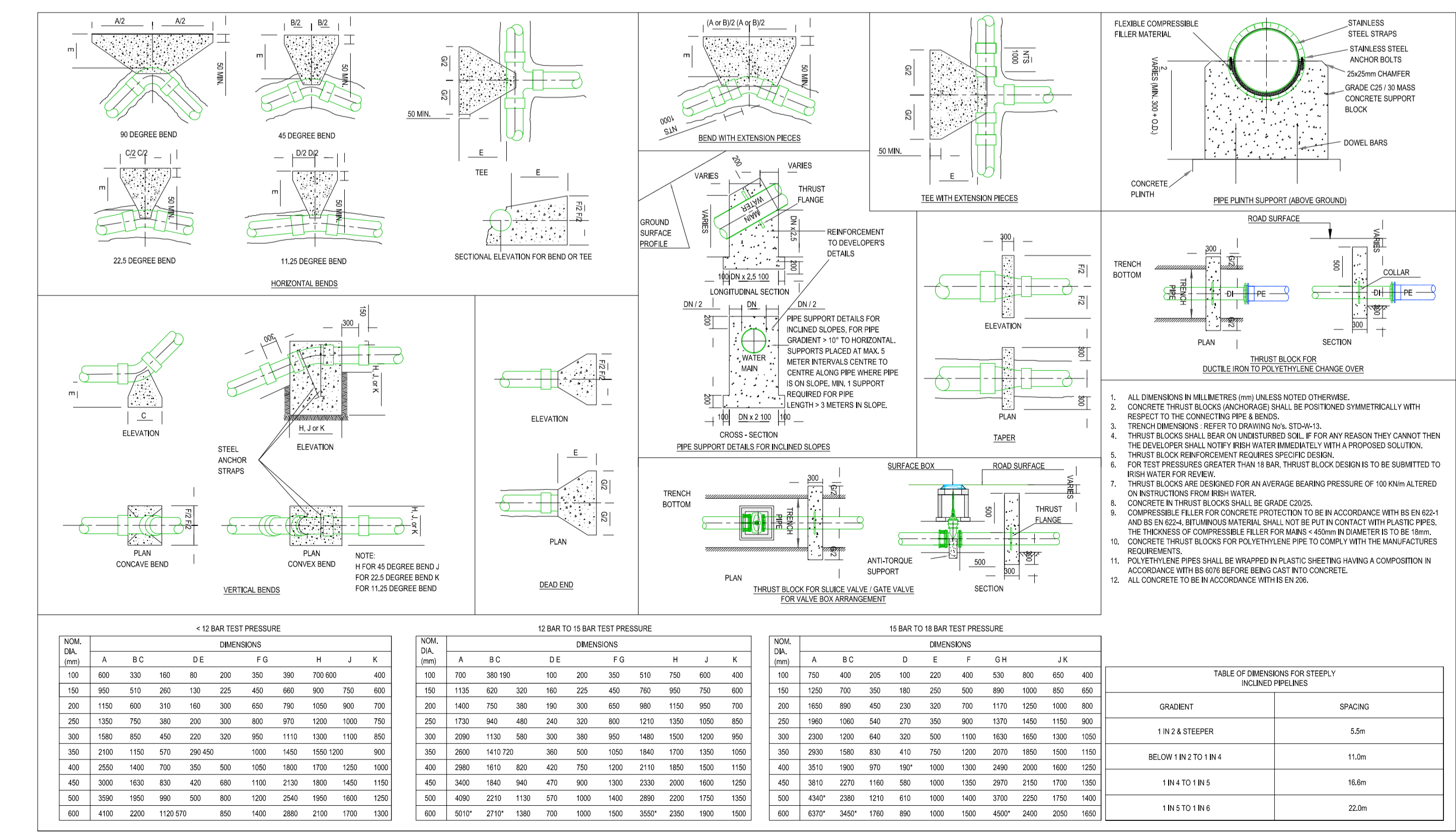
ON - LINE AIR VALVE FOR POLYETHYLENE (P.E.) PIPE
(BASED ON IRISH WATER STANDARD DETAIL STD-W-22 Rev 2)



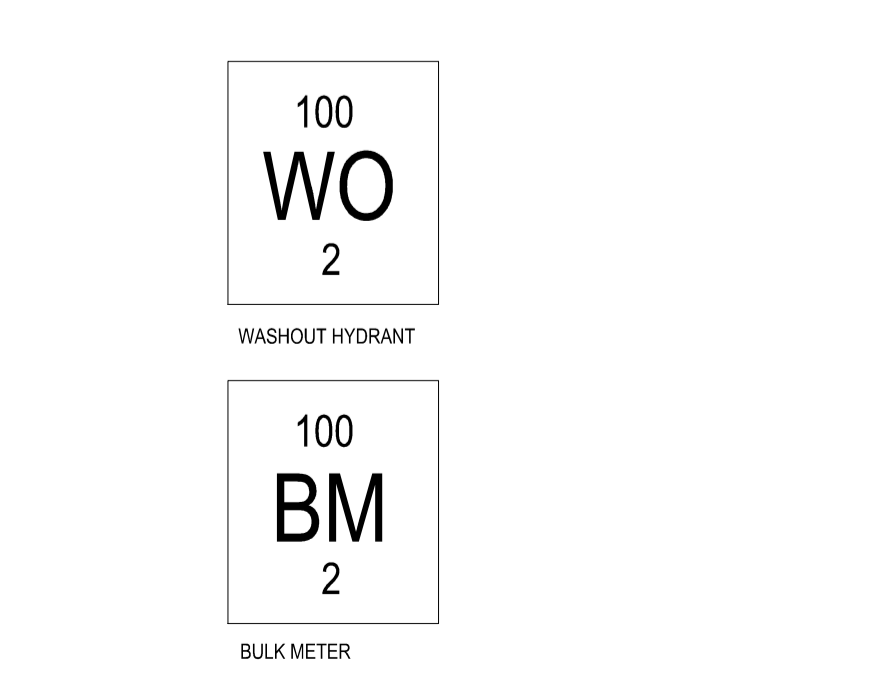
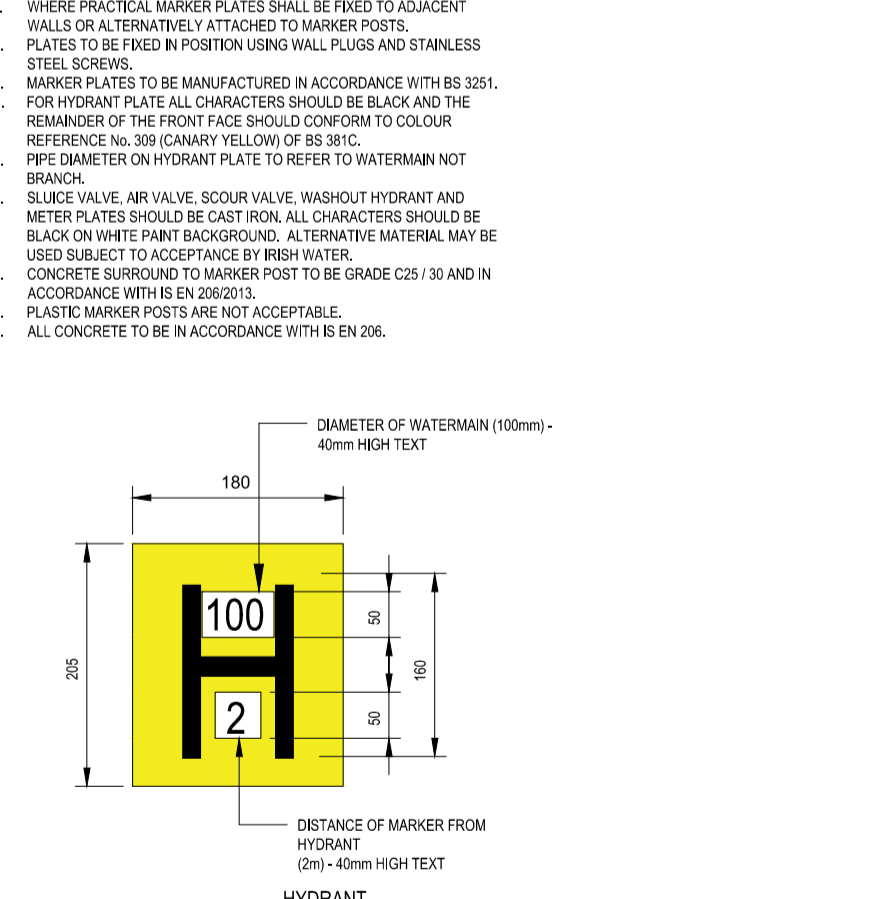
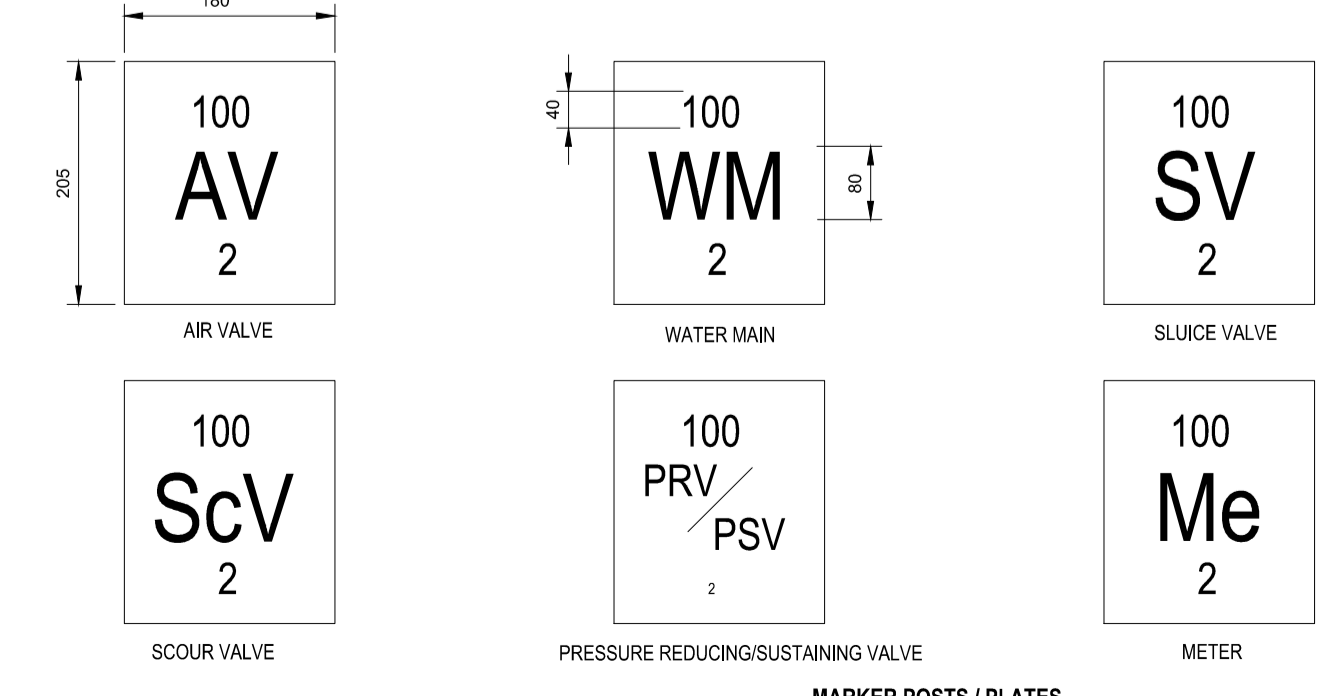
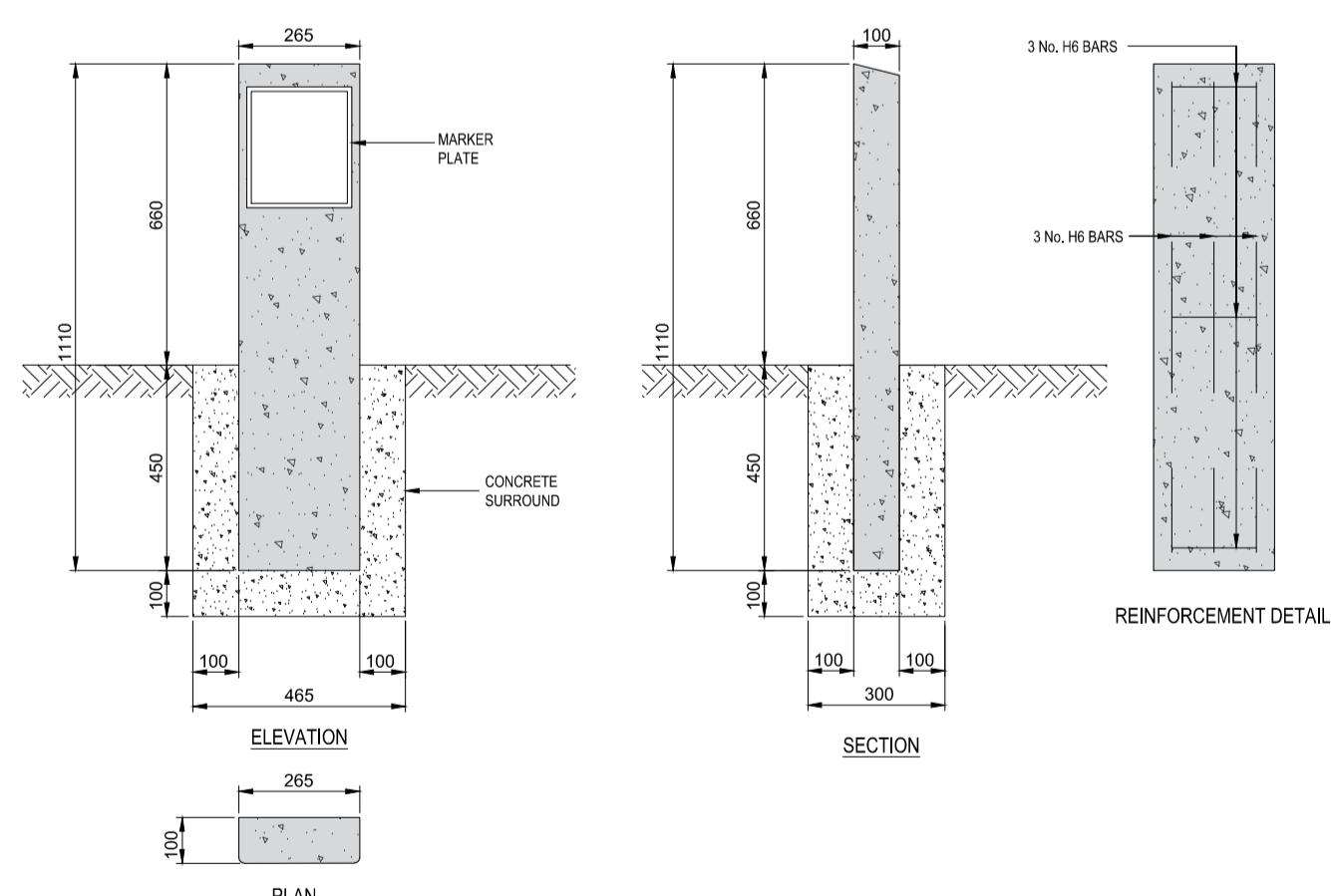
DIAMETER OF WATERMAIN (mm)	DIAMETER OF SCOUR (mm)
NOT EXCEEDING 75	50
100 TO 200	75
200 TO 300	100



SCOUR CHAMBER ARRANGEMENT
(BASED ON IRISH WATER STANDARD DETAIL STD-W-30 Rev 3)



WATER MAIN THRUST AND SUPPORT BLOCKS
(BASED ON IRISH WATER STANDARD DETAIL STD-W-28 Rev 2)



1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. STRUCTURAL REINFORCEMENT AND DESIGN DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR REVIEW. ROOF SLABS SHALL BE DESIGNED TO CARRY ALL LIVE LOADS & DEAD LOADS, & CONSIST OF A REINFORCED CONCRETE SLAB OF IN-SITU CONCRETE GRADE C25 WITH A MINIMUM THICKNESS OF 200mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED, SUBJECT TO IRISH WATER REVIEW & COMPLIANCE WITH BS 5111, Part 4.
3. CONCRETE FOR SCOUR CHAMBER AND HEADWALL TO BE REINFORCED. THEY SHALL BE SUBJECT TO AGREEMENT WITH IRISH WATER.
4. PRE-FABRICATED CHAMBER AND HEADWALL MAY ALSO BE USED, SUBJECT TO REVIEW FROM IRISH WATER.
5. SCOUR CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO BS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY IRISH WATER.
6. 200mm ALL ROUND, 100mm DEEP CONCRETE PLUMB AROUND COVERS IN GRASS AREAS.
7. FINAL DETAIL TO BE PROVIDED BY IRISH WATER AND RELEVANT REGULATORY AUTHORITIES.
8. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING STD-W-11 ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
9. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
10. ALL PREWORK AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 548, PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12052/2011.
11. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHIELD ANTI-CORROSION TAPE IS REQUIRED. THEY SHALL BE SUBJECT TO AGREEMENT WITH IRISH WATER.
12. ALL CONCRETE TO BE IN ACCORDANCE WITH EN 12618.
13. BACKFILL AND REINSTATEMENT OF RIVER BED AND BANK TO BE SUBJECT TO AGREEMENT WITH IRISH WATER & RELEVANT AUTHORITIES.

1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. AIR VALVE CHAMBERS SHALL BE COVERED WITH APPROVED VENTILATED HEAVY DUTY DUCTILE IRON COVERS TO BS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY IRISH WATER.
3. AIR VALVES SHALL COMPLY WITH THE REQUIREMENTS OF IS EN 1074-4. AIR VALVES SHALL BE DOUBLE OFFSET PIPE AND SHALL INCLUDE INSULATING VALVE. THE INSULATING VALVE SHALL BE EITHER A GATE VALVE CONFORMING TO IS EN 1074-2 & SHALL BE OF A BOLTSLESS SCAMNET DESIGN OR A BUTTERFLY VALVE TO EN 1074-2.
4. SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2m OF THE AIR VALVE LOCATION.
5. AIR VALVE CHAMBERS TO BE OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVE PROPRIETARY PRE-FABRICATED CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO REVIEW BY IRISH WATER.
6. PRECAST CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED GRADE 800 MATERIAL AS PER STD-W-13.
7. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 548.
8. 200mm ALL ROUND, 100mm DEEP CONCRETE PLUMB AROUND COVERS IN GRASS AREAS.
9. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING STD-W-11 ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
10. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
11. THE LOCATION OF THE AIR VALVE SHALL BE THE SUBJECT OF PARTICULAR AGREEMENT WITH IRISH WATER TO ENSURE THAT THE RISK OF CONTAMINATION THROUGH THE VALVES IS ELIMINATED.
12. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 12618.
13. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
14. NEW ROAD CONSTRUCTION A SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF 'GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS.

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- NOTES:
1. Figured dimensions only to be taken from this drawing.
 2. All dimensions to be checked on site.
 3. All levels are in metres O.D. and are related to Ordnance datum at Malin.

INITIAL ISSUE	SW	15.03.21	PO1
Description:	Drawn	Date:	Rev.:

Client:
DATA AND POWER HUB SERVICES LTD

Project:
GIS SUBSTATION COMPOUND AND TRANSFORMERS / MV SWITCH ROOM COMPOUND AT GRANGE CASTLE

Clients Representative:
J. B. Barry and Partners Limited
Consulting Engineers

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Drawn By:	SW	Date:	JAN 2021
Checked By:	SW	Date:	JAN 2021
Approved By:	GF	Date:	JAN 2021
Internal Project Ref:	19229	Stage:	PLANNING
		Suit:	S3

Drawing Title:
TYPICAL WATERMAIN DETAILS (SHEET 2)

Scales:	1:50 @ A1
Drawing No.:	19229-JBB-00-XX-DR-C-01506
Rev:	PO1