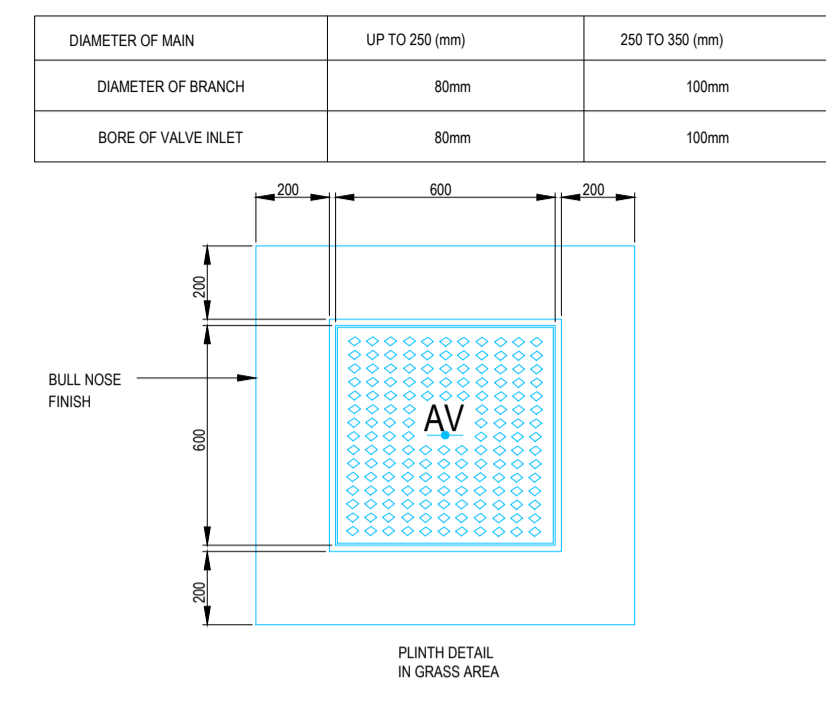
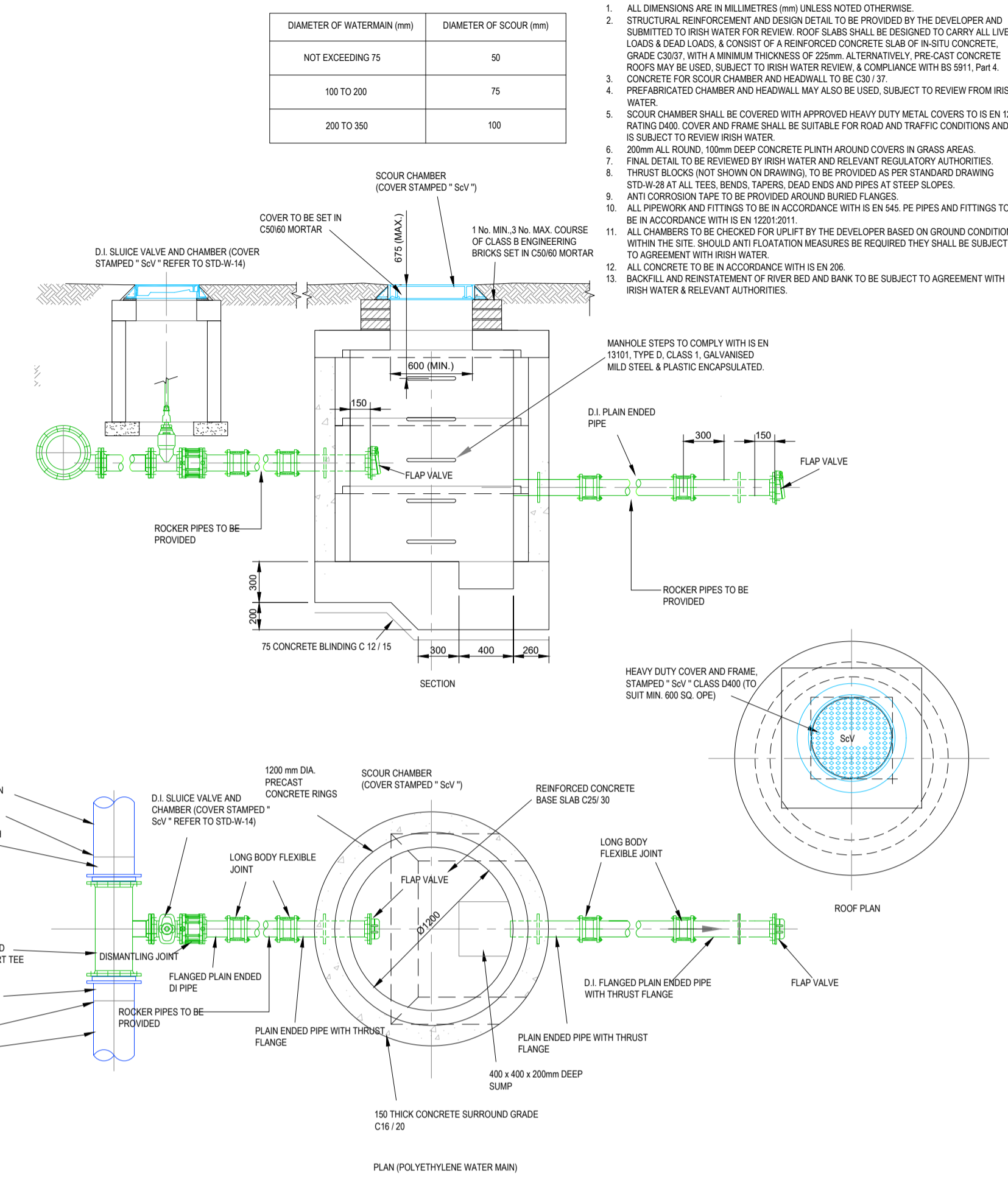


ON - LINE AIR VALVE FOR DUCTILE IRON (D.I.) PIPE
(BASED ON IRISH WATER STANDARD DETAIL STD-W-20 Rev 2)

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



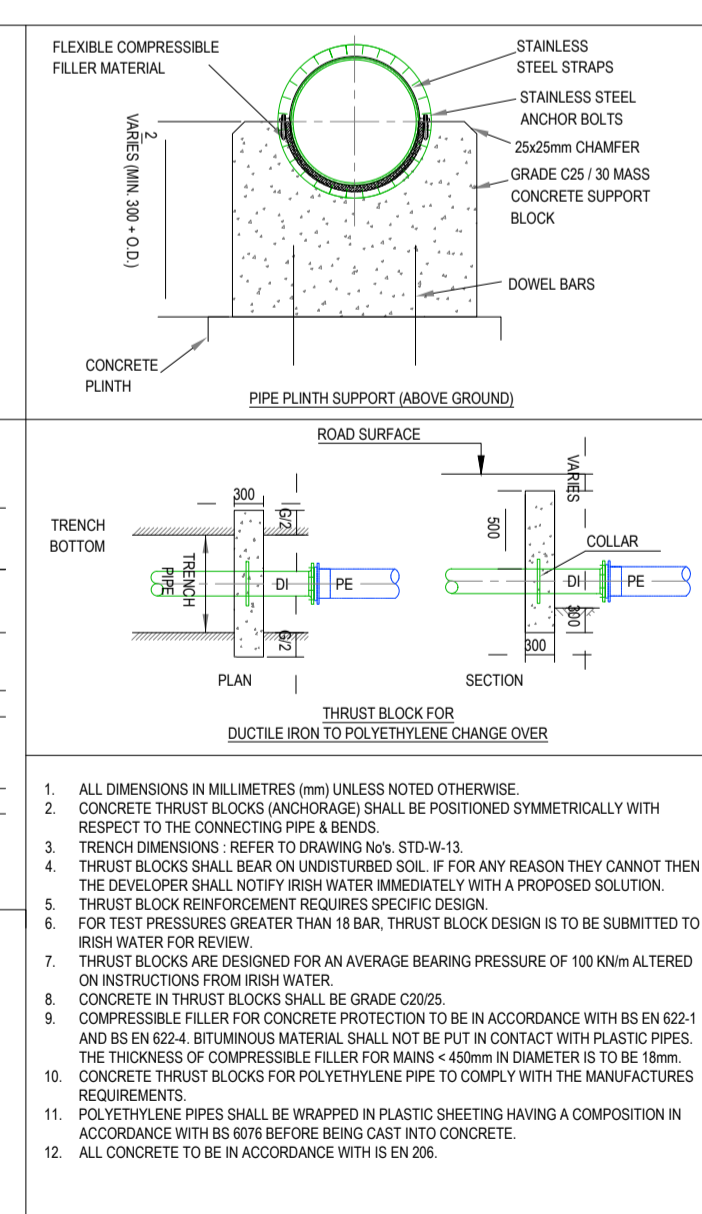
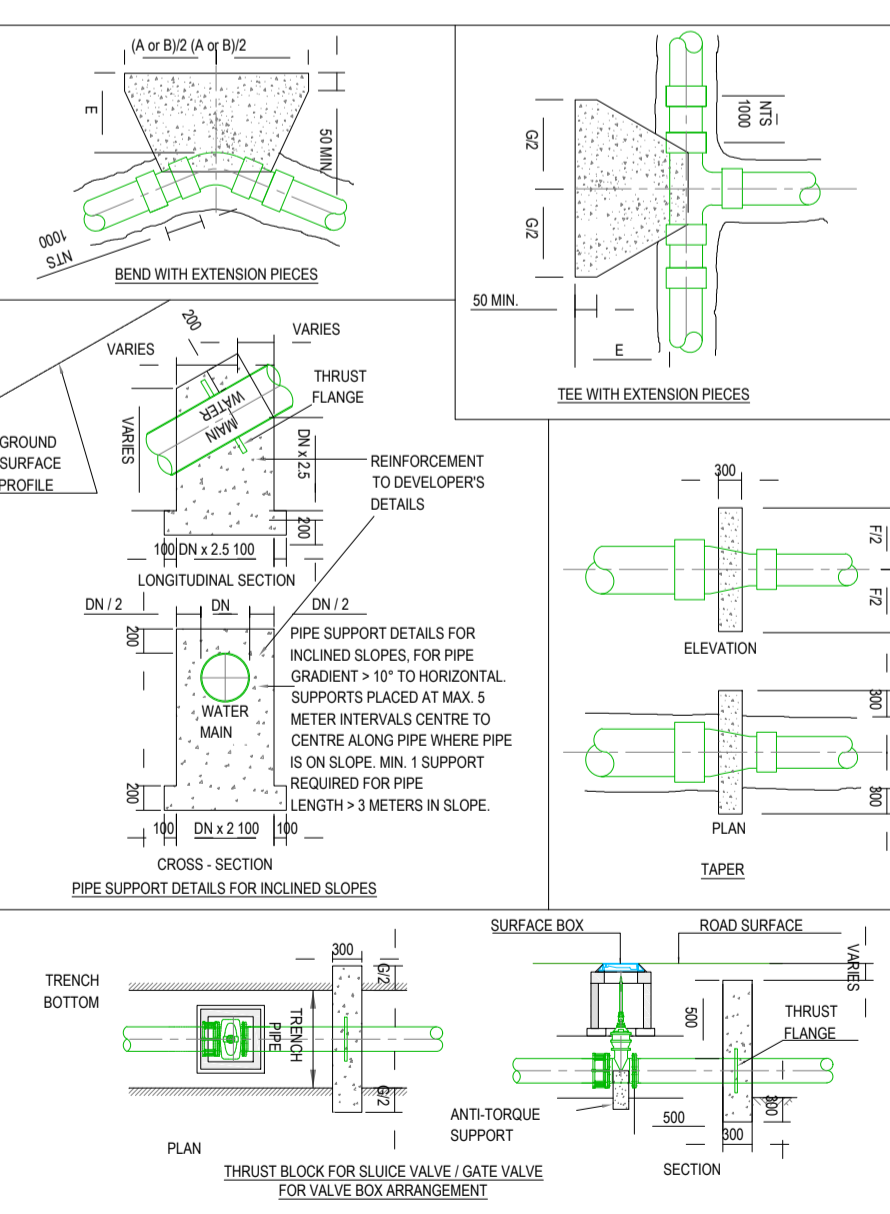
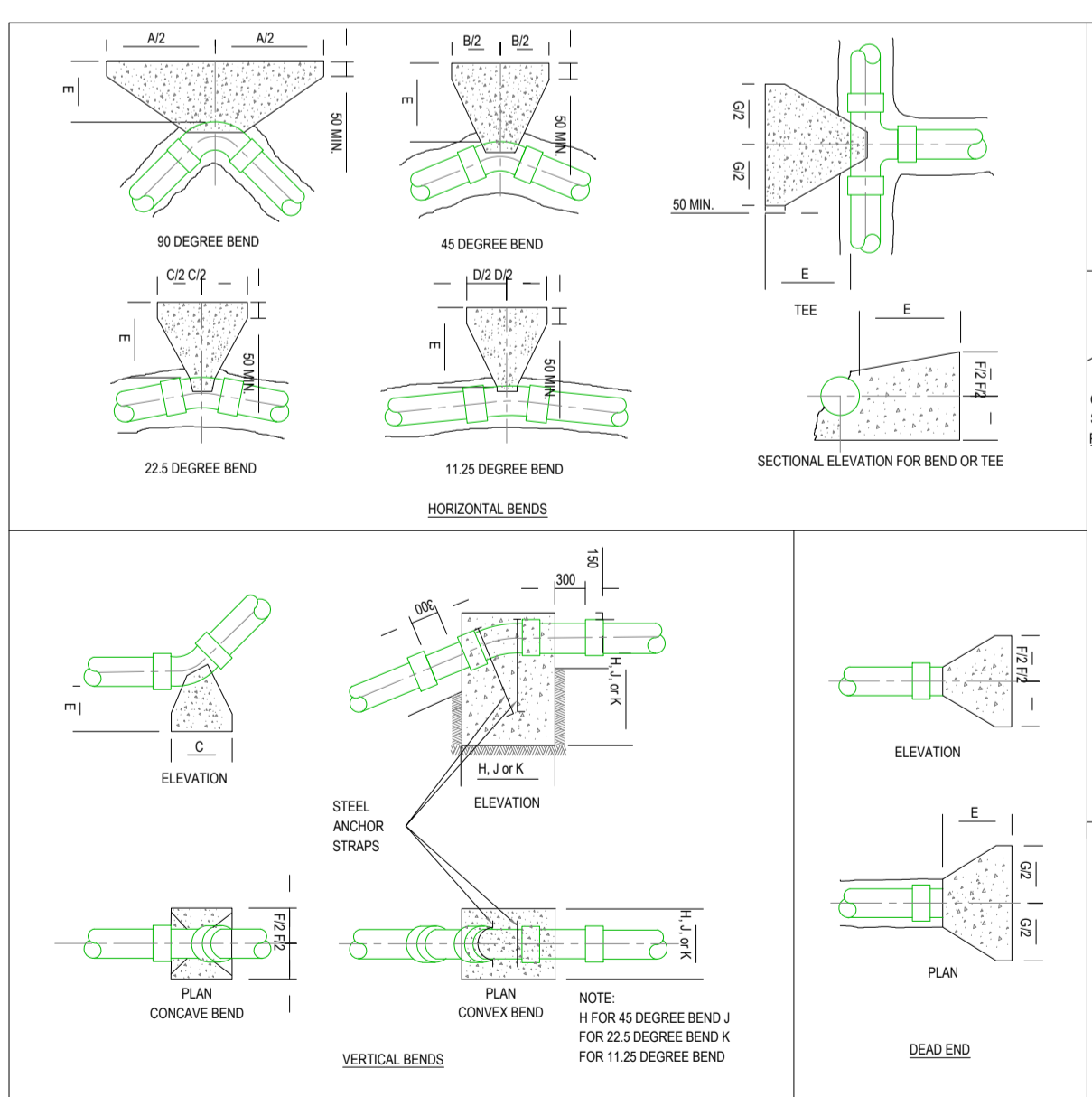
1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. AIR VALVE CHAMBERS SHALL BE COVERED WITH APPROVED VENTILATED HEAVY DUTY DUCTILE IRON COVERS TO IS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY IRISH WATER.
3. AIR VALVES SHALL COMPLY WITH THE REQUIREMENTS OF IS EN 1074-4. AIR VALVES SHALL BE DOUBLE SHIFTS TYPE AND SHALL INCLUDE ISOLATING VALVE. THE ISOLATING VALVE SHALL BE EITHER A GATE VALVE CONFORMING TO IS EN 1014-2 & SHALL BE OF A BOLTED BONNET DESIGN OR A BUTTERFLY VALVE TO IS 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 PRECAST 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 0/6 MATERIAL AS PER STD-W-13.
7. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545.
8. 200mm AL. AROUND, 100mm DEEP CONCRETE PLUNTH AROUND COVERS IN GREEN AREAS.
9. THRUST BLOCKS NOT SHOWN ON DRAWING, TO BE PROVIDED AS PER STANDARD DRAWING STD-W-14 AT 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 VALVE IS ELIMINATED.
12. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
13. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
14. NEW ROAD CONSTRUCTION & 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.



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

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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.

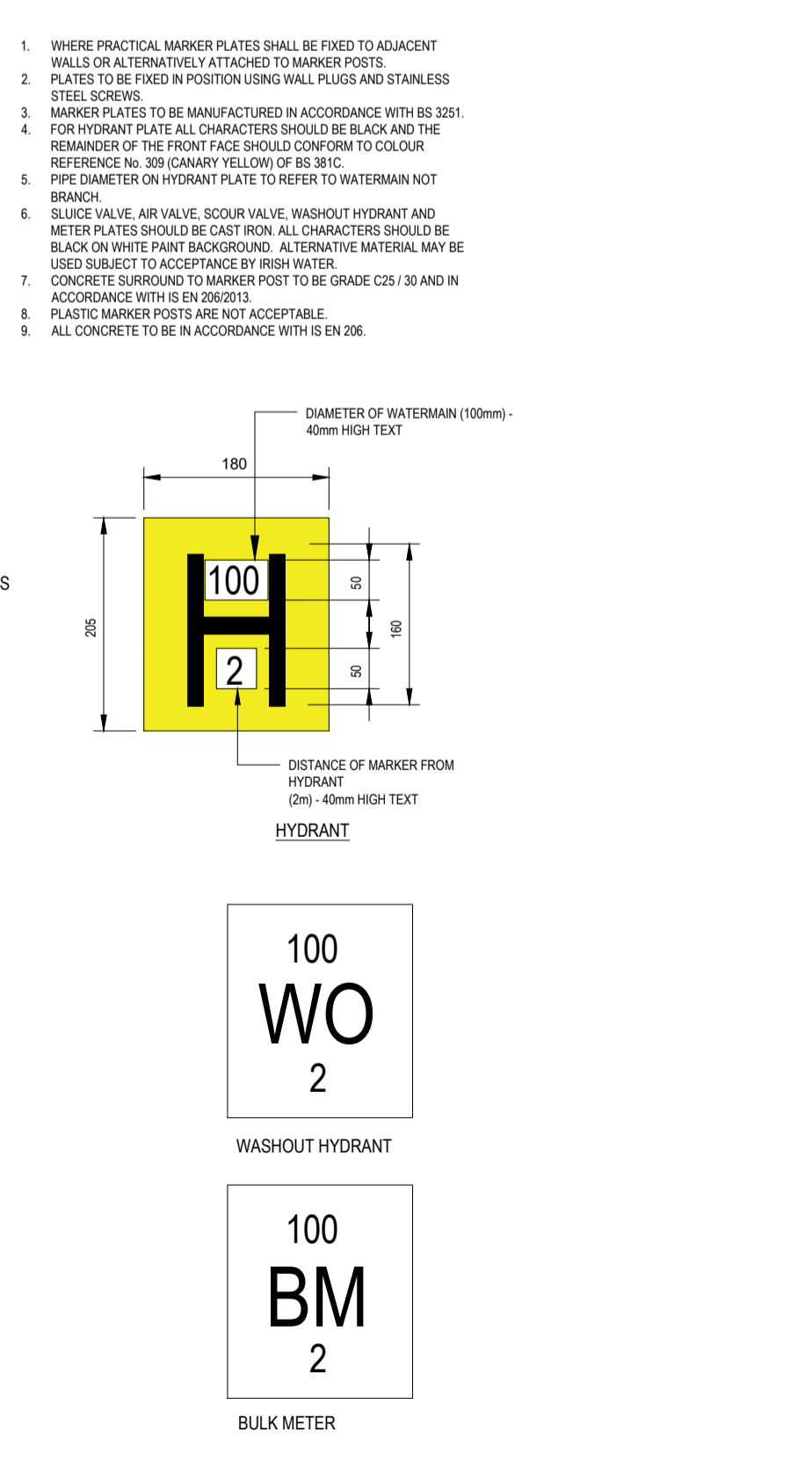
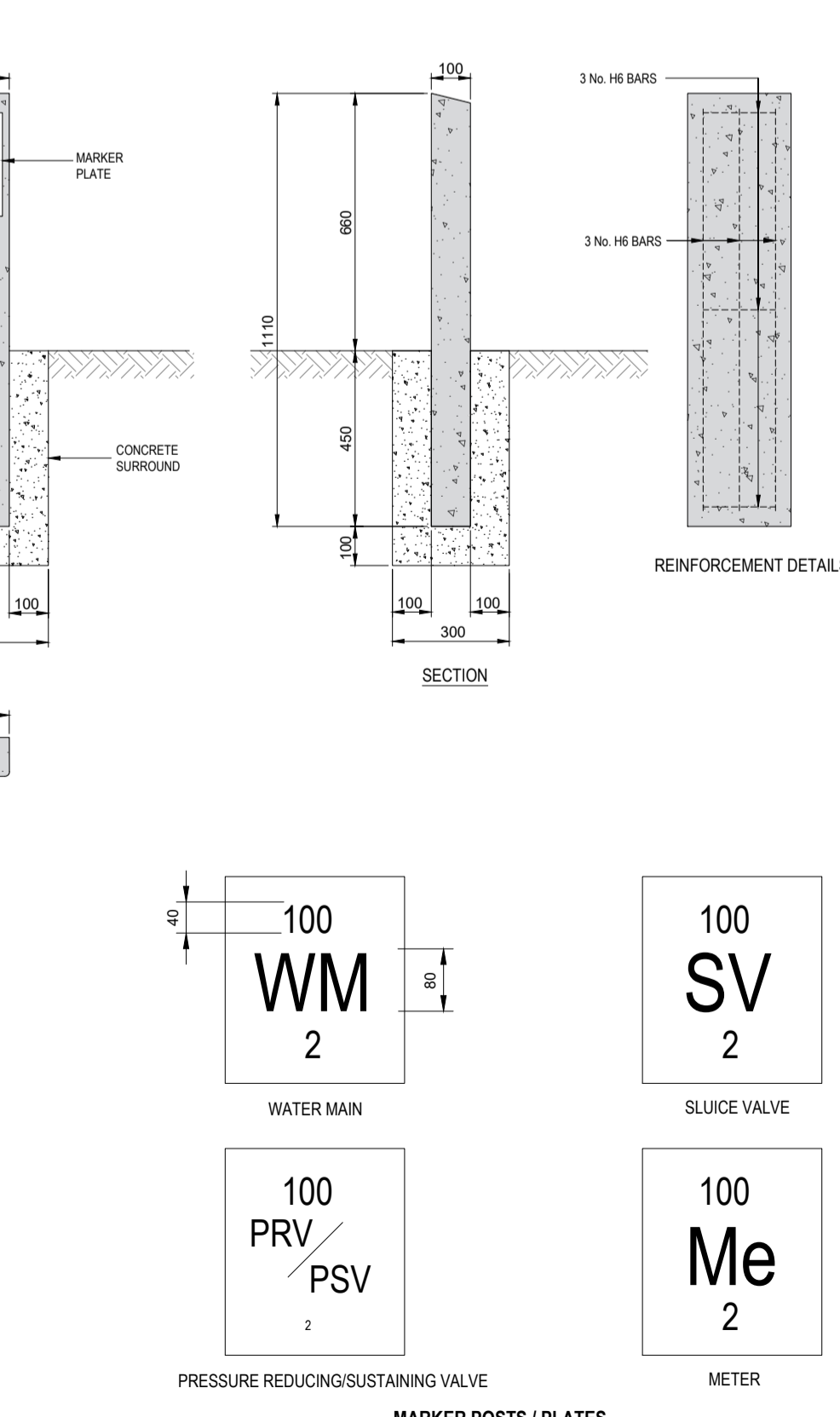


NOM. DIA. (mm)	DIMENSIONS						
	A	B	C	D	E	F	G
100	600	330	160	80	200	350	390
150	950	510	260	130	225	450	660
200	1150	630	320	160	225	450	960
250	1350	750	380	200	300	650	1050
300	1550	850	450	220	320	850	1110
350	1750	950	520	250	350	1050	1200
400	1950	1050	600	280	380	1250	1300
450	2150	1150	680	320	420	1450	1400
500	2350	1250	760	360	460	1650	1500
600	2750	1550	950	450	550	2050	1800

NOM. DIA. (mm)	DIMENSIONS						
	A	B	C	D	E	F	G
100	750	380	190	100	220	400	530
150	1130	620	320	160	225	450	960
200	1400	750	380	190	300	650	1150
250	1730	940	480	240	320	800	1210
300	2050	1130	580	300	350	950	1480
350	2350	1320	680	360	380	1100	1650
400	2650	1510	780	420	420	1250	1820
450	2950	1700	880	480	460	1400	2000
500	3250	1890	980	540	500	1550	2170
600	3850	2290	1180	640	580	1900	2570

NOM. DIA. (mm)	DIMENSIONS						
	A	B	C	D	E	F	G
100	750	380	190	100	220	400	530
150	1130	620	320	160	225	450	960
200	1400	750	380	190	300	650	1150
250	1730	940	480	240	320	800	1210
300	2050	1130	580	300	350	950	1480
350	2350	1320	680	360	380	1100	1650
400	2650	1510	780	420	420	1250	1820
450	2950	1700	880	480	460	1400	2000
500	3250	1890	980	540	500	1550	2170
600	3850	2290	1180	640	580	1900	2570

GRADIENT	SPACING	
	1 IN 2 & STEEPER	1 IN 4 TO 1 IN 5
1 IN 2 & STEEPER	5.5m	16.6m
BELOW 1 IN 4 TO 1 IN 4	11.0m	16.6m
1 IN 4 TO 1 IN 5	16.6m	22.0m



ISSUED FOR PLANNING	ES	08.07.19	P2
INITIAL ISSUE	ES	30.04.19	P1
Description:	Drawn	Date:	Rev.
Client:	COSGRAVE PROPERTY GROUP.		
Project:	BLACKWOOD SQUARE, NORTHWOOD, D9		
Clients Representative:	J. B. Barry and Partners Limited Consulting Engineers		
Classroom House	Dundrum Business Park, Dundrum Road, Dublin 14		
Drawn By:	ES	Date:	APRIL 2019
Checked By:	GF	Date:	APRIL 2019
Internal Project Ref:	Y19205	Stage:	PLANNING
Drawing Title:	TYPICAL WATERMAIN DETAILS (SHEET 2)		
Scales:	1:50 @ A1		
Drawing No.:	19205-JBB-00-XX-DR-C-1009		Rev: P2