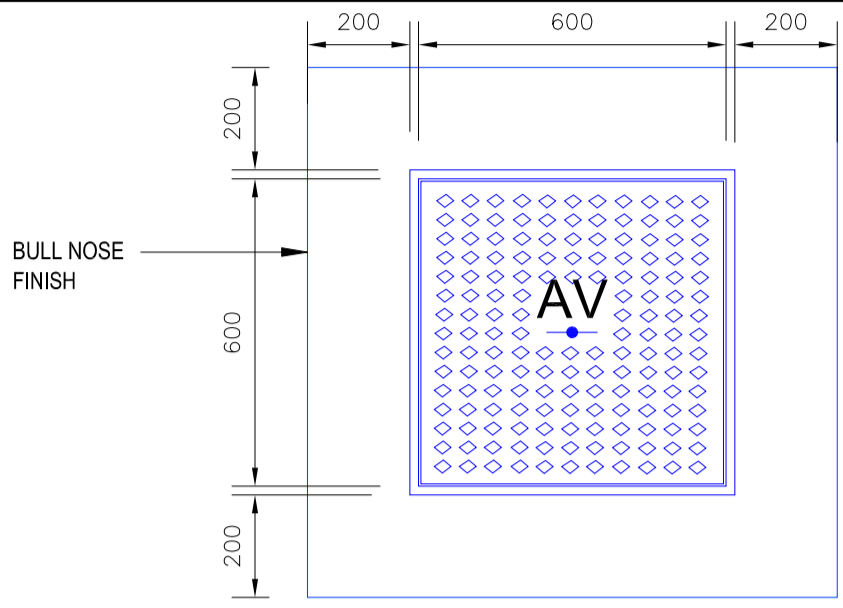
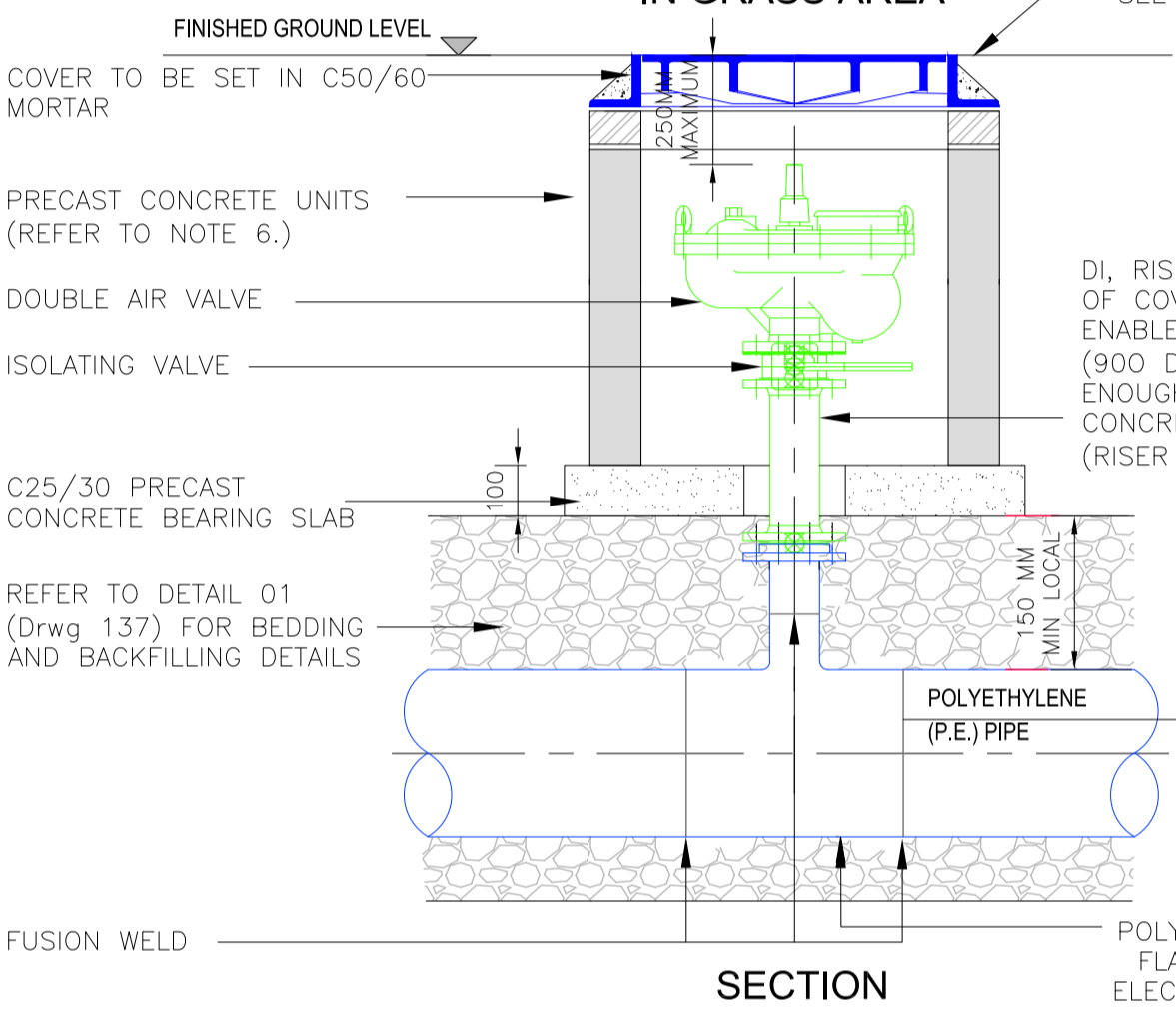


DIAMETER OF MAIN	UP TO 250 (mm)	250 TO 350 (mm)
DIAMETER OF BRANCH	80mm	100mm
BORE OF VALVE INLET	80mm	100mm

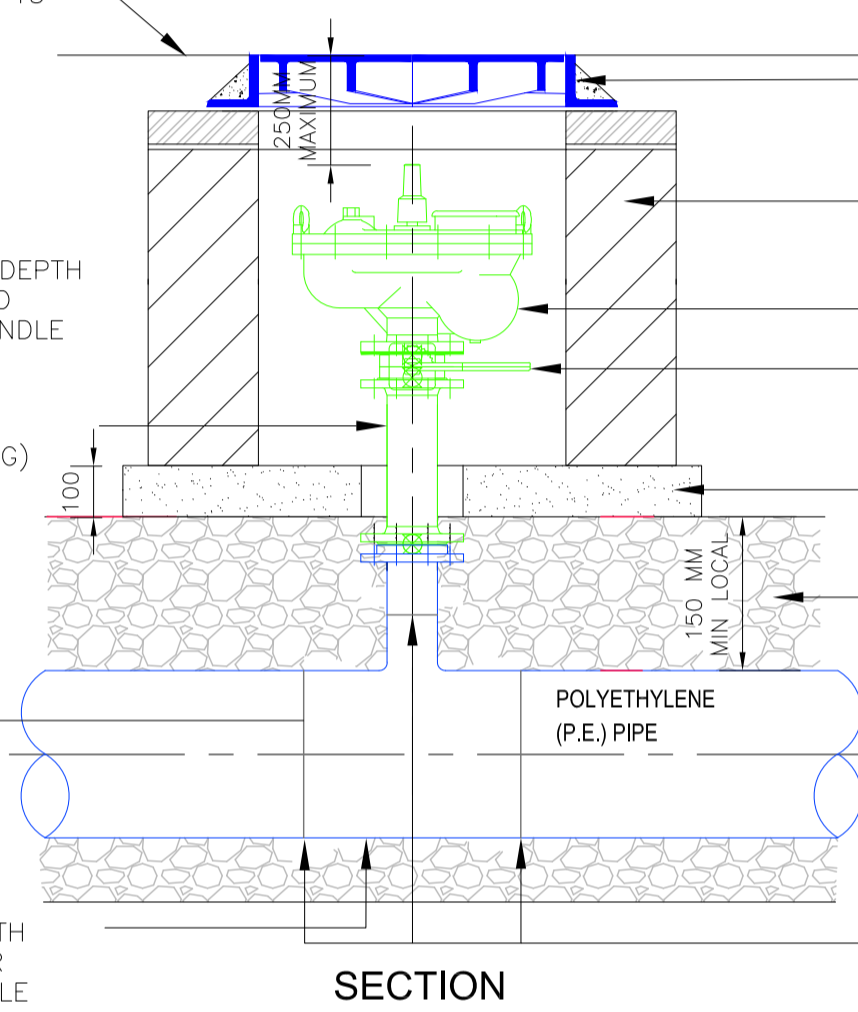
1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. AIR VALVE CHAMBERS SHALL BE COVERED WITH APPROVED VENTILATED HEAVY DUTY DUCTILE IRON COVERS TO IS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY IRISH WATER.
3. AIR VALVES SHALL COMPLY WITH THE REQUIREMENTS OF IS EN 1074-4. AIR VALVES SHALL BE DOUBLE ORIFICE TYPE AND SHALL INCLUDE AN ISOLATING VALVE. THE ISOLATING VALVE SHALL BE EITHER A GATE VALVE CONFORMING TO IS EN 1074-2 & SHALL BE OF A BOLTLESS 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 PREFABRICATED 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 CLAUSE 808 MATERIAL AS PER 01 (Drwg 137).
7. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545.
8. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GREEN AREAS.
9. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER IRISH WATER STANDARD DETAIL STD-W-28 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.
15. 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.



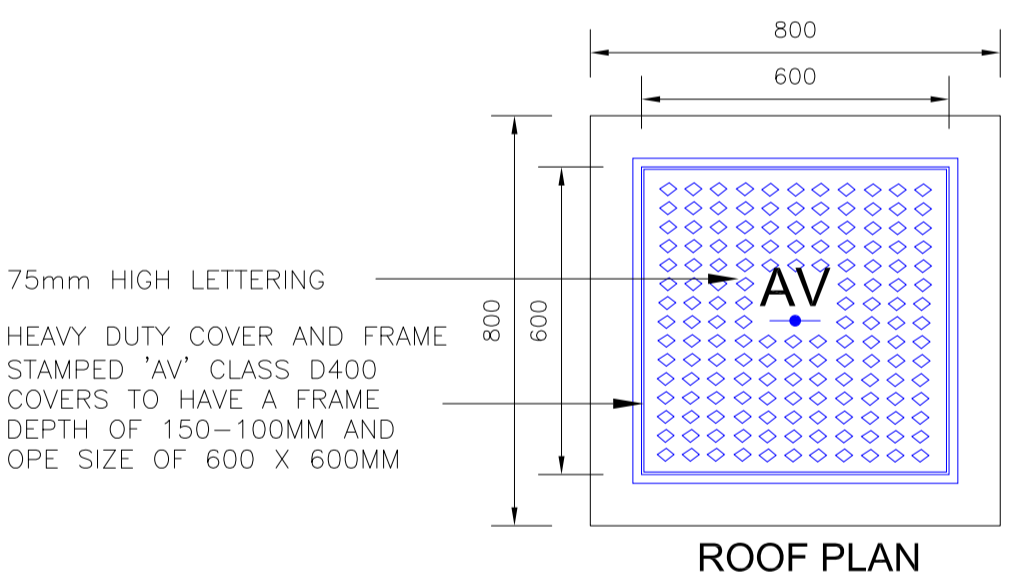
PLINTH DETAIL  
IN GRASS AREA



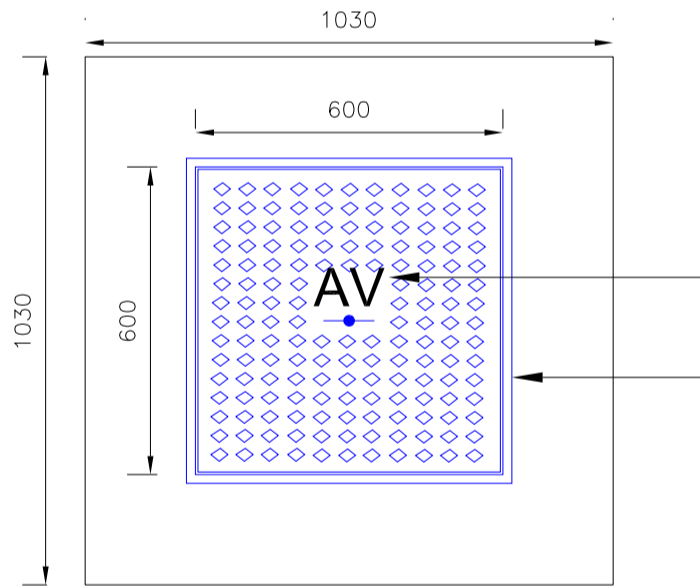
SECTION



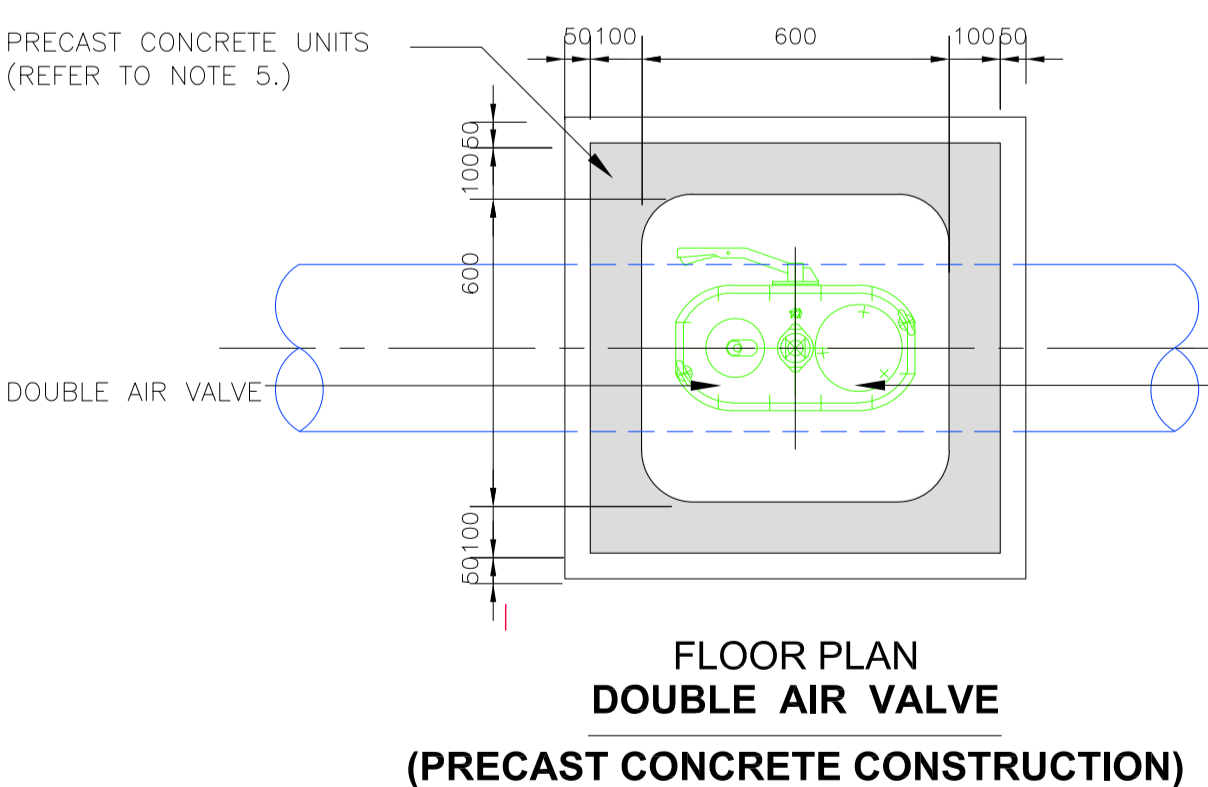
SECTION



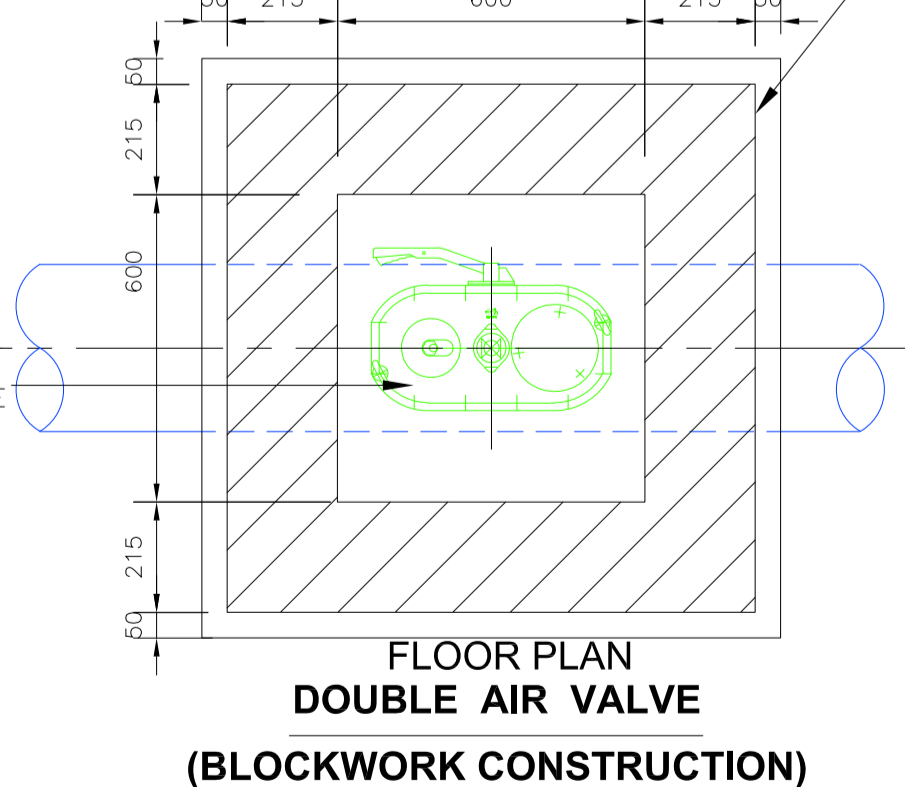
ROOF PLAN



ROOF PLAN



FLOOR PLAN  
DOUBLE AIR VALVE  
(PRECAST CONCRETE CONSTRUCTION)



FLOOR PLAN  
DOUBLE AIR VALVE  
(BLOCKWORK CONSTRUCTION)

COVER TO BE SET IN C50/60 MORTAR  
CLASS B ENGINEERING BRICK SET IN C50/60 MORTAR  
215mm THICK 20N/MM<sup>2</sup> CONCRETE BLOCKWORK IN ACCORDANCE WITH C30/37 REINFORCED SLAB IS EN771-3  
DOUBLE AIR VALVE  
ISOLATING VALVE  
C25/30 PRECAST CONCRETE BEARING SLAB  
REFER TO DETAIL 01 (Drwg 137) FOR BEDDING AND BACKFILLING DETAILS

HEAVY DUTY COVER AND FRAME STAMPED 'SV' CLASS D400 (TO SUIT 445 X 280 OPE)  
HEAVY DUTY COVER AND FRAME STAMPED 'AV' CLASS D400 COVERS TO HAVE A FRAME DEPTH OF 150-100MM AND OPE SIZE OF 600 X 600MM

215mm THICK 20N/MM<sup>2</sup> CONCRETE BLOCKWORK IN ACCORDANCE WITH C30 / 37 REINFORCED SLAB IS EN771-3

REV. NO.	DESCRIPTION	DATE	INITIALS
B	Issued for Planning	May 2019	T.Finn
A	Issued to Irish Water for Statement of Acceptance	26th April 2019	T.Finn

**finn** DESIGN PARTNERSHIP  
CREATIVE • INNOVATIVE

Blakestown, Ardee, Co. Louth, Ireland  
t 041 6857200 f 041 6857201 e info@finn.ie www.finn.ie

DRAWING NO: **139** REV. NO: **B**

TITLE: Watermain Details (Sheet 3 of 3)  
PROJ: Proposed Residential Development @ Haggardstown Blackrock, Dundalk, Co Louth

CLIENT: Kingsbridge Consultancy Ltd  
1st Floor, Block 1, Quayside Business Park, Dundalk, Co Louth

SCALE: As Shown DRAWN: T.Finn  
DATE: November 2018 CHECKED: -

STATUS: **Planning Permission**

JOB NO: **1703**

NOTES  
1. Copyright Reserved 2003 ©  
2. Work to figure dimensions only. Do not scale drawing.  
3. The contractor is responsible for checking all levels and dimensions on site and shall refer all discrepancies to the Architect.  
4. Where appropriate, for details of r.c. structure, or mechanical and electrical details, see Engineers drawings.  
5. Proprietary items shall be fixed in strict accordance with manufacturers instructions.  
6. Sites of proprietary items shall be checked with manufacturer.  
7. The contractor shall be responsible for the coordination of structure, finishes and services.

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