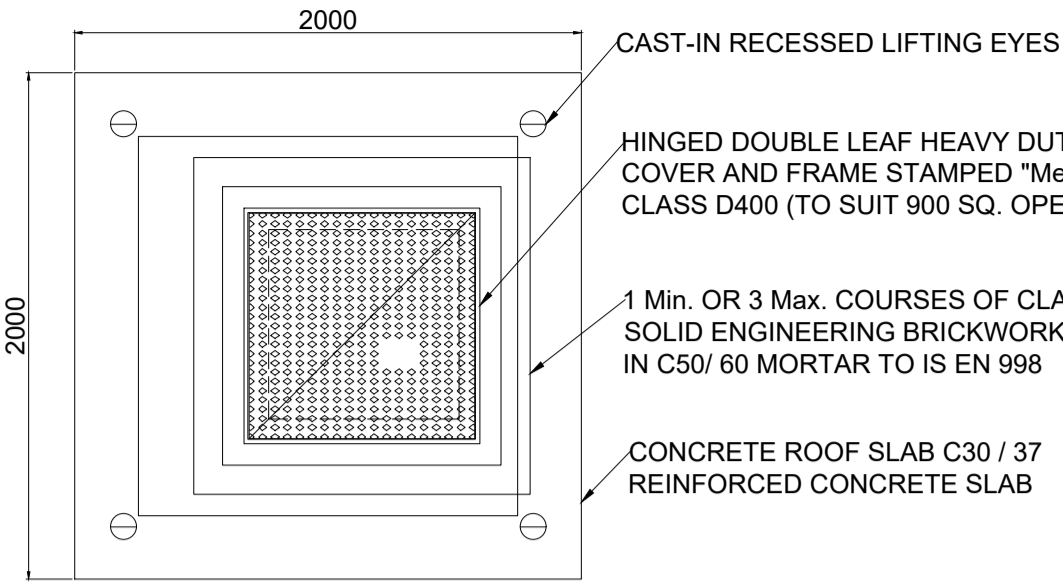
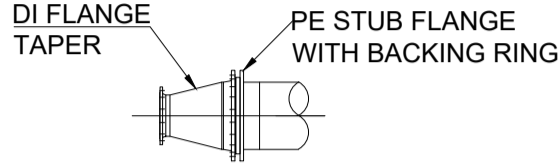


NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. STRUCTURAL DESIGN AND REINFORCEMENT DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO OPW C&S ENGINEER 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 C30/37, WITH A MINIMUM THICKNESS OF 225mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED, SUBJECT TO OPW C&S ENGINEER REVIEW, & COMPLIANCE WITH IS EN 1917 & IS 420
3. CONCRETE FOR FLOW METER CHAMBER TO BE C30 / 37.
4. PRECAST UNITS COMPLETED WITH RUBBER SEALING GASKET BETWEEN UNITS, COMPLYING WITH THE REQUIREMENTS OF IS EN 1917 AND IS 420, COMPLETE WITH 150mm CONCRETE SURROUND MAY BE USED AS AN ACCEPTABLE ALTERNATIVE. CONCRETE SURROUND TO BE GRADE C20/25 IN ACCORDANCE WITH IS EN 206.
5. METER CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY OPW C&S ENGINEER.
6. 200mm ALL ROUND, 100mm DEEP CONCRETE PLINTH AROUND COVER IN GRASS AREAS.
7. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
8. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201:2011.
9. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY OPW C&S ENGINEER.
10. PIPEWORK TO BE DOWNSIZED TO ACCOMMODATE THE REQUIRED RANGE OF THE FLOW METER. STRAIGHT PIPE LENGTHS UPSTREAM AND DOWNSTREAM OF THE METER TO BE PROVIDED. THE METER SHALL BE CAPABLE OF ACCURATE NIGHT FLOW MEASUREMENTS A BY-PASS FLOW METER SHALL BE PROVIDED WITH APPROPRIATE VALVES, FITTINGS AND PIPEWORK.
11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
12. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
13. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS.
14. 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.

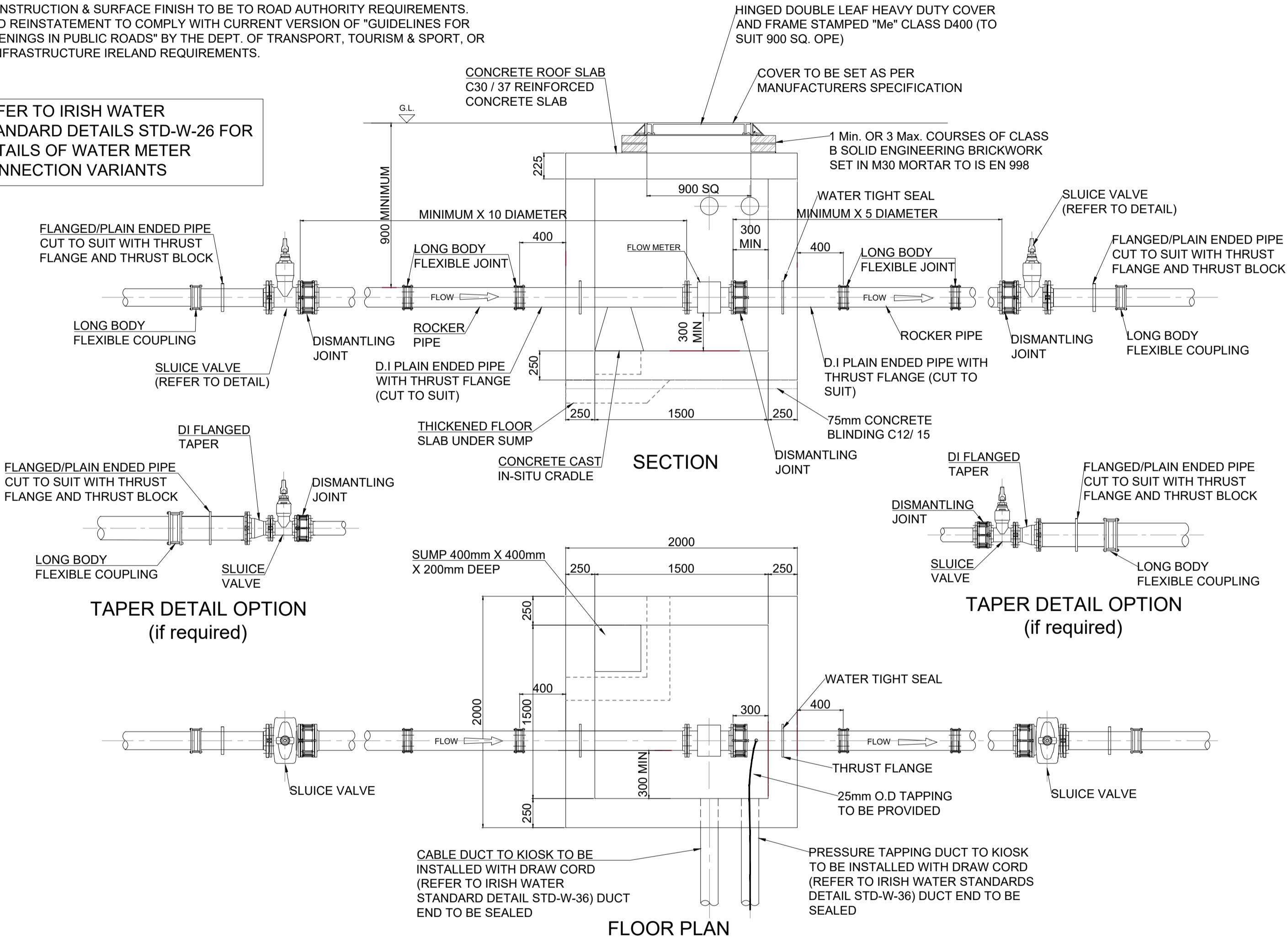


ROOF PLAN



PE TO DI DETAIL

REFER TO IRISH WATER STANDARD DETAILS STD-W-26 FOR DETAILS OF WATER METER CONNECTION VARIANTS



SECTION

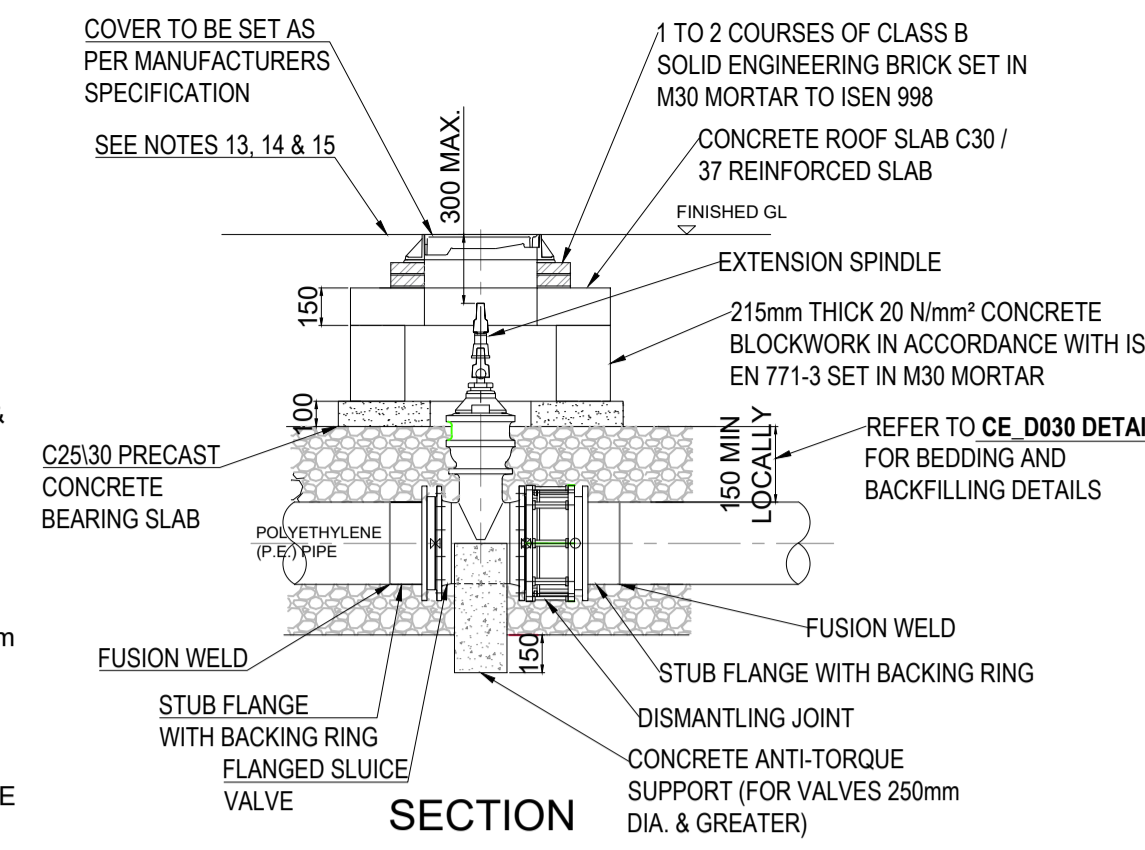
FLOOR PLAN

WATER METER CHAMBER

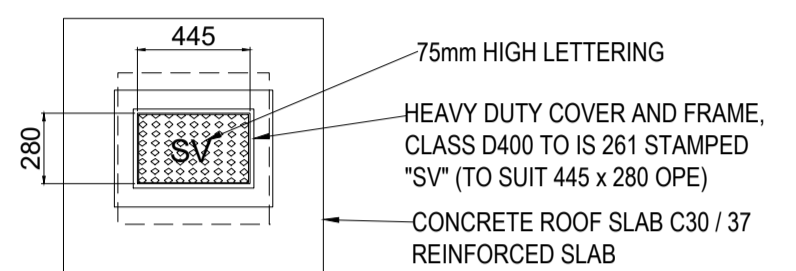
Scale 1:30

1. ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
2. SLUIICE VALVE CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 AND BS 5834. COVER AND FRAME SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY OPW C&S ENGINEER.
3. SLUIICE VALVES SHALL BE RESILIENT SEATED AND SHALL COMPLY WITH BS 5163-1, 5163-2, IS EN 1074-1, IS EN 1074-2 OR EQUIVALENT E.U. SPECIFICATION.
4. ALL SLUIICE VALVES SHALL BE ANTI-CLOCKWISE CLOSING.
5. VALVE CHAMBER TO BE CONSTRUCTED OF HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED, SUBJECT TO REVIEW BY OPW C&S ENGINEER. ROOF SLABS SHALL BE DESIGNED TO CARRY ALL LIVE LOADS & DEAD LOADS, & CONSIST OF A REINFORCED CONCRETE SLAB OF IN-SITU CONCRETE, GRADE C30/37, WITH A MINIMUM THICKNESS OF 150mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED, SUBJECT TO OPW C&S ENGINEER REVIEW, & COMPLIANCE WITH IS EN 1917 & IS 420. PCC CHAMBER RISER UNITS SHALL BE INTERLOCKING WHEN STACKED TO PREVENT LATERAL MOVEMENT OF INDIVIDUAL UNITS.
6. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER OPW STANDARD DETAIL CE_D030 TRENCH BACKFILLING & BEDDING DETAILS.
7. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. PE PIPES AND FITTINGS IN ACCORDANCE WITH IS EN12201:2011
8. 200mm ALL AROUND x 100mm DEEP, C20/25 CONCRETE PLINTH COMPLETE WITH BULL NOSE FINISH AND TO BE PROVIDED COMPLETE WITH MILD STEEL REINFORCEMENT LINK AROUND COVERS IN GREEN AREAS.
9. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER DETAILS SHOWN ON DRAWING No. 2889-DR-4003 AND TO STANDARD DETAILS STD-WW-28 AT ALL TEES, BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES (IW STANDARD DETAILS-WATER).
10. ANTI-CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
12. 450X450mm INTERNAL CHAMBER DIMENSIONS MAY BE PROVIDED SUBJECT TO REVIEW BY OPE C&S ENGINEER. SUCH CHAMBERS SHALL BE PROVIDED WITH GRADE "A" HEAVY DUTY COVER AND FRAME AND STAMPED "SV". BEARING SLABS TO BE 900X900 IN ALL CASES.
13. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
14. NEW ROAD CONSTRUCTION AND SURFACE FINISH TO BE TO ROAD AUTHORITY'S REQUIREMENTS.
15. EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS" BY THE DEPARTMENT OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND.

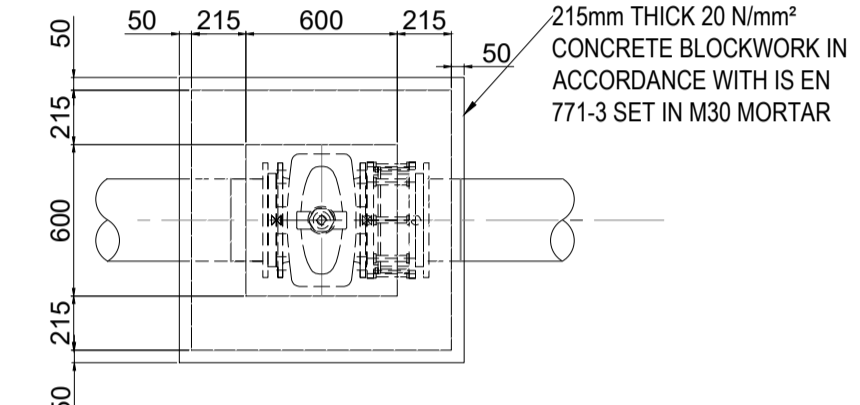
REFER TO IRISH WATER STANDARD DETAILS STD-W-15 FOR DETAILS OF SLUIICE VALVE CONNECTION FOR PE PIPEWORK



SECTION



ROOF PLAN



FLOOR PLAN

SLUIICE VALVE CHAMBER

Scale 1:30

General Notes:

1. Refer to drawing 2889-DR-001 & 2889-DR-002 for General Notes.
2. This drawing is to be read in conjunction with all other Engineers, Architects and Suppliers drawings, specifications and Risk Assessments.
3. The Contractor shall notify the OPW Project Engineer (C&S) of any discrepancies between drawings, the specification and site conditions and seek clarification before implementing the work.
4. Figured dimensions only to be taken from this drawing, do not scale. All setting out, levels and dimensions shall be established from the Architects drawings. As built dimensions and levels shall be confirmed on site where necessary.
5. The Contractor is responsible for the design of all Temporary Works to safely execute the permanent works shown on these drawings.
6. All dimensions are in millimeters unless noted otherwise. All levels are structural levels in meters Ordnance datum (m OD), unless noted otherwise.
7. All work is to conform with the requirements of the latest editions of the Building Regulations, Health and safety Regulations and all codes of practice and standards referenced.
8. All work shall be in compliance with the Planning Permission conditions for the project.
9. All services shown are indicative only, the contractor must verify all underground services prior to any excavation taking place on site.
10. All surfaces to be reinstated after works to match existing ground.

P0	11/08/22	DH	EC	Issued for Information
Revision	Date	By	Chk'd	Description

Civil & Structural Engineering
 Assistant Chief Engineer: Kieran Walsh
 Grade 1 Engineer: Tim McDonnell
 Project Engineer: Enda Cusack



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 a, Jonathan Swift Street, Trim, Co. Meath, C15 NX36
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 w: www.gov.ie/opw

Project Title:
Trim Market Centre Refurbishment
 Castle Street, Trim,
 Co.Meath

Drawing Title:
Watermain Details
 Sheet 1

Project Role:	OPW Section Project Reference:
Civil & Structural	2889

Scales at A1:
As Shown

Drawn:	Checked:	Approved:	Date:
DH	EC	TMcD	11/08/22
Status Description:	Status Code:	Revision:	
Preliminary		P0	

Drawing Number:
2889-DR-4002