

CONCRETE

465

(SCALE 1:25)

DIAMETER OF WATERMAIN

(100mm) – 40mm HIGH TEXT

DISTANCE OF MARKER FROM

HYDRANT (2m) - 40mm

AIR VALVE

100

ScV

SCOUR VALVE

(N.T.S)

HIGH TEXT

SURROUND

300

SECTION

WATERMAIN

PRV

PRESSURE REDUCING

SUSTAINING VALVE

(N.T.S)

REINFORCEMENT

DETAILS

(SCALE 1:25)

100

BM

BULK METER

(N.T.S)

100

WO

WASHOUT HYDRANT

(N.T.S)

100

SV

100

Ме

Drawing Location: M:\Projects\20\20-011 - Cross Guns Bridge\Drawings\Waterman Moylan\Civil\Planning\Autocad Drawings\20-011 - P330 - Water Supply Details - Sheet 1 of 3.dwg

MARKER POST/PLATE DETAILS

STD-W-27

PIPE BEDDING NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.

2. THE MINIMUM DEPTH OF COVER FROM THE FINISHED GROUND LEVEL TO THE EXTERNAL CROWN OF THE PIPE SHALL BE 900mm WHERE THE PIPE IS TO BE LOCATED IN HOUSING ESTATE ROADS. GREATER DEPTHS OF COVER AND/OR PIPE STRENGTH AND/OR A HIGHER CLASS OF BEDDING MATERIAL MAY BE REQUIRED WHERE HIGH TRAFFIC LOADING IS ANTICIPATED. THE DESIRABLE COVER FOR A WATERMAIN SHOULD BE 1200mm, WHERE PRACTICABLE & SHOULD NOT EXCEED 3.0m.

3. CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL WHÉRE THE WATER MAIN IS LOCATED IN ROADS, FOOTPATHS OR WHEN THE NEAREST PART OF THE TRENCH IS WITHIN 1m OF THE PAVED EDGE OF THE ROADWAY. CLAUSE 804 / 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. CLAUSE 808 IS TO BE USED WITHIN 500mm OF CEMENT BOUND MATERIALS, CONCRETE PAVEMENTS, CONCRETE STRUCTURES OR CONCRETE PRODUCTS. OTHERWISE CLAUSE 804 MAY BE USED. ALTERNATIVE BACKFILL MATERIAL TO THAT DESCRIBED ABOVE (CLAUSE 804 OR CLAUSE 808) OF THE PIPE TRENCH WILL ONLY BE ALLOWED BY IRISH WATER WHERE THE ROADS AUTHORITY IN WHOSE FUNCTIONAL AREA THE DEVELOPMENT IS LOCATED, PROVIDES WRITTEN APPROVAL TO THE DEVELOPER TO THE USE SUCH ALTERNATIVE MATERIAL.

4. SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL SUBJECT TO REVIEW BY IRISH

5. PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IGN 4-08-01 GRANULAR MATERIAL SHALL BE 14mm TO 5mm GRADED AGGREGATE OR 10mm SINGLE SIZED AGGREGATE TO IS EN 13242.

6. IN SOFT GROUND CONDITIONS (CBR < 5) THE MATERIAL SHOULD BE EXCAVATED OUT AND DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS SHALL REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE WRAPPING, ALTERNATIVELY, SPECIAL PIPE SUPPORT ARRANGEMENTS, INCLUDING PILING ETC. MAY BE REQUIRED WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE. SUCH ARRANGEMENTS SHALL BE SUBJECT TO ASSESSMENT BY IRISH WATER BEFORE ADVANCING WITH THE WORK.

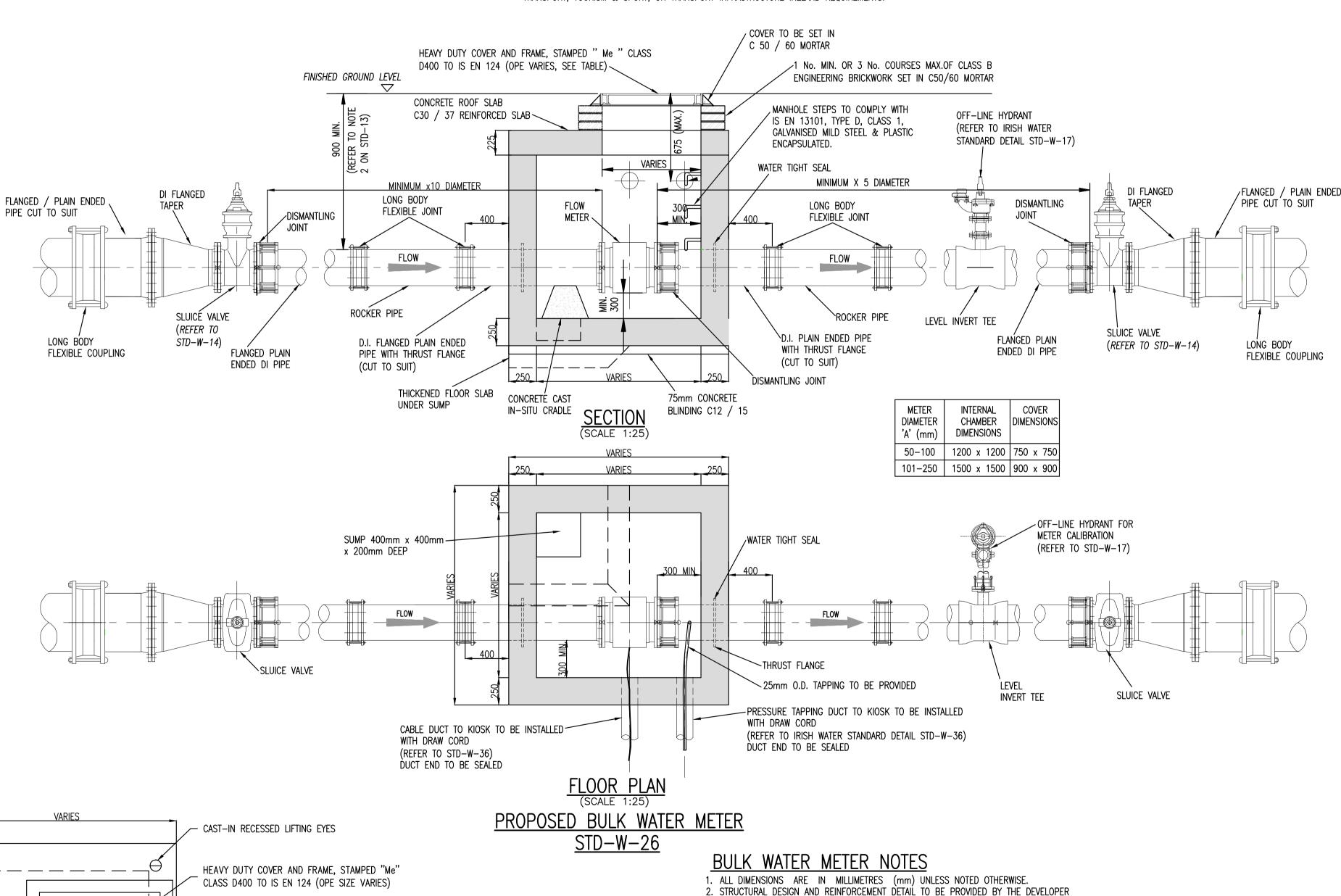
7. PIPES SHALL NOT BE SUPPORTED ON STONES OR ROCKS, OR ANY HARD OBJECT AT ANY POINT ALONG THE TRENCH. ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.

8. SHOULD MINIMUM COVER NOT BE ACHIEVABLE, CONCRETE GRADE C8/10 SHALL BE USED AS BACKFILL MATERIAL

9. MARKER TAPE TO BE 400mm WIDE BLUE POLYETHYLENE MATERIAL IN ACCORDANCE WITH EN 12163, PLASTIC PIPES SHALL HAVE WARNING TAPE INCORPORATED A REINFORCED BAND BRACING WIRE. SERVICE PIPES SHALL HAVE 200mm WIDE MESH TAPE. MARKER TAPE TO BE LAID AT TOP OF PIPE BEDDING LAYER.

10. TRENCH WIDTHS FOR PIPE SIZES ≤80mm MAY BE <500mm, SUBJECT TO CONSIDERATION BEING GIVEN TO THE TRENCH DEPTH, HEALTH & SAFETY & CONSTRUCTION ACCESS REQUIREMENTS.

11. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. 12. 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.



— DI FLANGED TAPER

PE STUB FLANGE WITH

1 No. MIN. OR 3 No. COURSES MAX.OF CLASS E

CONCRETE ROOF SLAB C30 / 37

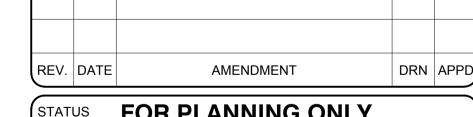
REINFORCED CONCRETE SLAB

ROOF PLAN

ENGINEERING BRICKWORK SET IN C50/60 MORTAR

BACKING RING

PE TO DI DETAIL



1. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.

ARCHITECTURAL AND ENGINEERING DRAWINGS.

PRACTICE.

IS EN 14901.

OVER A WATERMAIN.

TAKE PRECEDENCE

FOR TREES/SHRUBS/FLOWERS.

UNLESS NOTED OTHERWISE.

EQUIVALENT E.U. SPECIFICATION.

2. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT

WATERMAINS SHALL BE LAID IN ACCORDANCE WITH THE LOCAL AUTHORITY

BYLAWS WHICH OVER-RIDE THESE NOTES. THE CONSTRUCTION OF THE

/ IRISH WATER SPECIFICATION FOR THE LAYING OF NEW WATERMAINS AND

WATERMAIN SHALL BE IN ACCORDANCE WITH THE BEST CURRENT PRACTICE

AND THE LATEST EDITIONS OF THE RELEVANT STANDARDS AND CODES OF

AGREEMENT WITH THE LOCAL AUTHORITY. DUCTILE IRON PIPES SHALL BE

USED UNDER ROADS OF CLASSIFICATION "DISTRICT DISTRIBUTOR" UPWARDS

HAVE MINIMUM C40 PRESSURE RATING. DUCTILE IRON FITTINGS SHALL HAVE

16 BAR RATING AT LEAST DI PIPEWORK SHALL BE COATED INTERNALLY

REQUIREMENTS OF BS 6920. EXTERNAL PROTECTION SHALL INCLUDE AN

ALLOY OF 70NC AND ALUMINUM WITH A MINIMUM 15% ALUMINUM WITH OR

WITHOUT OTHER MATERIALS HAVING A MASS OF 400g/m² COMPETE WITH A

MARGINS WHERE APPROVED. NO PIPE, CONDUIT, CABLE OR OTHER SERVICE

CABINET POLES, JUNCTION BOXES OR CHAMBERS SHALL BE CONSTRUCTED

WATER CAN BE MADE BY THE IRISH WATER ONLY. NO OTHER PERSON MAY

INTERFERE IN ANY WAY WITH THESE MAINS. SUCH CONNECTIONS WILL BE

MADE BY IRISH WATER AT THE EXPENSE OF THE PERSONS REQUIRING THEM. THE ESTIMATED COST OF SUCH CONNECTIONS MUST BE LODGED

10. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL WORKS ARE

ARE AVAILABLE TO DOWNLOAD FROM THE IRISH WATER WEB SITE AT

PRACTICE OR STANDARD DETAILS THIS MUST BE BROUGHT TO THE

CONSTRUCTED IN ACCORDANCE WITH THE IRISH WATER CODE OF PRACTICE

WWW.WATER.IE/CONNECTIONS/DEVELOPER—SERVICES/ WHERE THE DETAILS CONTAINED ON THIS DRAWING DIFFER FROM THE IRISH WATER CODE OF

ATTENTION OF THE ENGINEER IMMEDIATELY. IRISH WATER STANDARDS WILL

AND STANDARD DETAILS. THE CODE OF PRACTICE AND STANDARD DETAILS

SHALL BE LAID LONGITUDINALLY OVER THE LINE OF A WATERMAIN. NO

FINISHING LAYER OF BLUE FUSION BONDED EPOXY IN ACCORDANCE WITH

8. WATERMAINS SHALL BE LAID UNDER FOOTPATHS PREFERABLY OR GRASS

9. CONNECTIONS TO THE MAINS WHICH ARE THE PROPERTY OF THE IRISH

WITH IRISH WATER BEFORE THE WORK IS UNDERTAKEN.

WITH A BLAST FURNACE CEMENT LINING WHICH COMPRISES WITH THE

4. WATERMAINS SHALL NOT BE LAID UNDER WALLS OR AREAS DESIGNATED

6. PIPES SHALL CONFORM TO THE UK WATER INDUSTRY SPECIFICATION OR

7. DUCTILE IRON (DI) PIPES SHALL CONFORM TO IS EN 545 AND SHALL

5. PIPES SHALL BE HDPE (BLUE PIPE) UNLESS NOTED OTHERWISE BY

FOR PLANNING ONLY NOT FOR CONSTRUCTION



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30 40 50 60 70 80 90 100

CLIENT BINDFORD LIMITED

ARCHITECT O MAHONY PIKE ARCHITECTS

PROJECT PHIBSBOROUGH,

WATER SUPPLY DETAILS

APPROVED DESIGNED

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 OPENING IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS.

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 C30/37, WITH A MINIMUM THICKNESS OF 225mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE

COMPLETE WITH 150mm CONCRETE SURROUND MAY BE USED AS AN ACCEPTABLE ALTERNATIVE. CONCRETE SURROUND TO BE GRADE C16/20 IN ACCORDANCE

4. PRECAST UNITS COMPLETED WITH RUBBER SEALING GASKET BETWEEN UNITS, COMPLYING WITH THE REQUIREMENTS OF IS EN 1917 AND BS 5911-PART 3,

5. METER CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 124: 1994 RATING D400. COVER AND FRAME SHALL BE

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

10. PIPEWORK TO BE DOWNSIZED TO ACCOMMODATE THE REQUIRED RANGE OF THE FLOW METER. STRAIGHT PIPE LENGTHS UPSTREAM AND DOWNSTREAM OF THE

USED, SUBJECT TO IRISH WATER REVIEW, & COMPLIANCE WITH BS 5911, Part 4.

SUITABLE FOR ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO REVIEW BY IRISH WATER.

METER TO BE PROVIDED. THE METER SHALL BE CAPABLE OF ACCURATE NIGHT FLOW MEASURAMENTS.

12. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.

200mm ALL ROUND, 100mm DEEP CONCRETE PLINTH AROUND COVER IN GRASS AREAS.

CONCRETE FOR FLOW METER CHAMBER TO BE C30/37.

. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.

REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY IRISH WATER.

11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

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CROSS GUN'S BRIDGE DUBLIN 7

TITLE SHEET 1 OF 3

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