

THE VOID FILLED WITH CLASSE 804 7808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL BE LAID ABOVE THIS VOID BACKFILL MATERIAL. SHOULD MINIMUM COVER NOT BE ACHIEVABLE, CONCRETE GRADE C8/10 SHALL BE USED AS BACKFILL MATERIAL. MARKER TAPE TO BE 400mm WIDE BLIE 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 LAVER. 0. TRENCH WIDTHS FOR PIPE SIZES ≤80mm MAY BE <500mm, SUBJECT TO CONSIDERATION BEING GIVEN TO THE TRENCH DEPTH, HEALTH & SAFETY & CONSTRUCTION ACCESS REQUIREMENTS. 1. NEW ROAD CONSTRUCTION & SUFFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. 2. 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.

- PIPE BEDDINGE SIZED AGGREGATE UNITH WIS 4-06-02 AND IGN 4-06-07 GRANULRAR MATERIAL SHALL BE 14mm 10 smin (% %) GRADUD AGGREGATE UR 10mm (% %) GRADUD AGGREG
- PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IGN 4-08-01 GRANULAR MATERIAL SHALL BE 14mm TO 5mm (% 3/4) GRADED AGGREGATE OR 10mm

SEE NOTES 11 & 12

FOOTPATH / ROAD SURFACE

- ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. 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 BEDDIRG 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. CLAUSE 804 / 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL WHERE THE WATER MAIN IS LOCATED IN ROADS, FOOTPATHS OR WHENT THE NATEST PART OF THE TRENCH IS WITHIN IT NOT THE PAVED EDGE OF THE ROADWAY. CLAUSE 804 / 808 IS TO BE COMPACTED AS PER CLAUSE 802 OTHE 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 DESGRIBED ABOVE (CLAUSE 804 OR CLAUSE 800) 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. SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL. SUBJECT TO REVIEW BY IRISH WATER. PIPE BEDING SHALL COMPLY WITH WIS 4-08-01 GRANULAR MATERIAL SHALL BE 14mm TO Smm (% 3/6) GRADED AGRREGATE OR 10mm

DEPTH OF -

REINSTATED TOPSOIL

TO MATCH EXISTING

 DEVELOPER TO PROVIDE SPOOL PIECE, IRISH WATER TO PROVIDE METER. (SEE TABLE BELOW FOR SPOOL PIECE LENGTHS) ELECTROMAGNETIC WATER METER SPOOL PIECE LENGTHS

350

CONCRETE ROOF SLAB C30 / 37 REINFORCED SLAB

300

MEASUREMENTS. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. 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.

COVER TO BE SET IN

RESIN/POLYESTER

MORTAR 30N/mm2

CEMENTITIOUS EPOX

Ømm DN50 DN80 DN100 DN125 DN150 DN200 DN250

250

EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF

"GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT, TOURISM & SPORT. (SEE NOTE 14.)

FOR NEW ROAD REINSTATEMENT SEE NOTES 12 & 13

200

Length mm

GRASSED AREAS

MEASUREMENTS.

- ANT CONNOUND THE TO BE PROVIDED ANOUND EXAMPLE. DUCTLE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 45, PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 122012011. 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 IRISH WATER. 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

450

HEAVY DUTY COVER AND

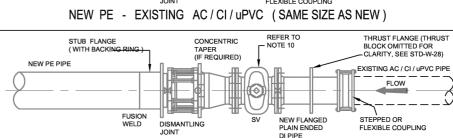
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CLASS D400 TO IS EN 124 (TO

- 200mm ALL ROUND, 100mm DEEP CONCRETE PLINTH AROUND COVER IN GRASS AREAS. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
- 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 IRISH WATER.
- ECAST 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. INCRETE SURROUND TO BE GRADE C20/25 IN ACCORDANCE WITH IS EN 206.

- ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. STRUCTURAL DESIGN AND REINFORCEMENT 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 C30(37, WITH A MINIMUM THICKNESS OF 225mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED, SUBJECT TO IRISH WATER REVIEW, & COMPLIANCE WITH IS EN 1917 & IS 420 CONCRETE FOR FLOW METER CHANBER TO BE C30 / 37.

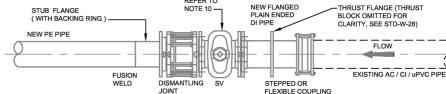


NEW PE - EXISTING AC / CI / uPVC (DIFFERENT SIZE TO NEW)

REFER TO

-NOTE 10





NEW FLANGED

ALL BENDS, TEES, DEAD ENDS, ETC. OF PIPELINES TO BE ADEQUATELY RESTRAINED BY THRUST BLOCKS AS PER DRAWING No. STD-W-28. THRUST BLOCKS NOT SHOWN FOR CLARITY.

BUTT FUSION WELDING AND ELECTRO FUSION JOINTING OF PIPES SHALL ONLY BE CARRIED OUT BY TRAINED OPERATIVES IN POSSESSION OF A CURRENT TRAINING CERTIFICATE, USING FULLY AUTOMATIC APPROVED JOINTING MACHINERIGS IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS. THE

DENTITY OF THE PE PIPELINE MANUFACTURER SHALL BE MADE KNOWN TO IRISH WATER PRIOR TO COMMENCEMENT OF THE

NOUWN 10 INSH WATER PRIOR 10 COMMENCEMENT OF THE INSTALLATION. CERTIFICATION AND TESTING (INCLUDING INDEPENDENT THIRD PARTY CERTIFICATION) SHALL BE PROVIDED TO CONFIRM QUALITY ASSURANCE COMPLIANCE. EACH JOINT SHALL BE CLEARLY MARKED WITH THE JOINT LOGGED

AUTOMATICALLY ON THE JOINTING MACHINE. A PRINTOUT OF THE JOINT DETAILS, WITH A GPS LOCATION OF EACH JOINT, SHALL BE

ROVIDED AND RETAINED FOR QUALITY ASSURANCE PURPOSES

CONNECTING TO EXISTING MAINS IS TO BE CARRIED OUT BY IRISH

WHEN EXISTING AC WATERMAINS ARE PRESENT A SPECIFIC METHOD STATEMENT SHALL BE SUBMITTED TO IRISH WATER PRIOR

TO WORKS TAKING PLACE AND SUBJECT TO WRITTEN APPROVAL.

DETAILING THE PROTECTION TO BE PUT IN PLACE TO EXISTING MAINS, METHOD OF REMOVAL OF EXISTING AC, METHOD OF DISPOSAL OF EXISTING AC AND METHOD OF CONNECTION TO

WATER OR AN APPROVED IRISH WATER AGENT.

PIPE MATERIAL REFERENCES AS FOLLOWS: AC - ASBESTOS CEMENT DI - DUCTILE IRON

EXISTING AC.

THRUST FLANGE (THRUST

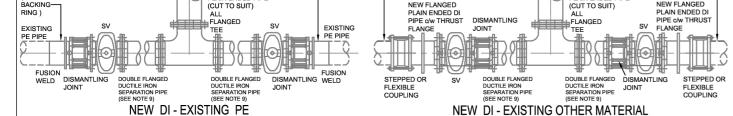
-CLARITY, SEE STD-W-28)

NEW FLANGED BLOCK OMITTED FOR

PLAIN ENDED

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

NTS



RING)-

STD-W-08 GENERAL PIPE CONNECTIONS. SHEET 5 OF 7.

STEPPED OR FLEXIBLE COUPLING	FLOOR PLAN DOUBLE AIR VALVE (PRECAST CONCRETE CONSTRUCTION)	FLOOR PLAN DOUBLE AIR VALVE (BLOCKWORK CONSTRUCTION)
	STD-W-22 ON-LINE AIR VALVE	FOR POLYETHYLENE
	<u>(P.E.) PIPE. – SHEET 3 OF 4.</u>	

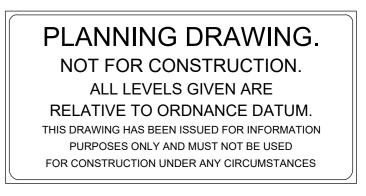
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NTS

PLAN (POLYETHYLENE WATER MAIN) ROOF PLAN
STD - W - 3OB
SCOUR CHAMBER TO STORM SEWER ARRANGEMENTS.
NTS

STUB FLANGE WITH BACKING RING FUSION WELD

P.E. WATER MAI



C216

 NOTES For setting out refer to Architect's drawings. This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications. DO NOT SCALE THIS DRAWING. Use figured dimensions only. No part of this document may be reproduced or transmitted in any form or stored in any retrieval system of any nature without the written permission as copyright holder except as agreed for use on the project for which the document was originally issued. Ordnance Survey Ireland Licence Number EN 0074024 	P2 28.06.2024 P3 23.07.2024 P4 08.08.2024	ISSUED FOR STAGE 2 PLANNING ISSUED FOR STAGE 3 PLANNING ISSUED FOR REVIEW ISSUED FOR REVIEW	Drn. By Chk JF JS JS JF JF JS	GL JF JF	Cl;ient Project Title	Clongriffin Blocks 5 & 6 Watermain Details	CS Consulting Group DUBLIN LONDON LIMERICK Head Office 19-22 Dame Street, Dublin 2. T: +353 (0)1 5480863 e: info@csconsulting.ie Www.csconsulting.ie Www.csconsulting.ie NSAI Certified NSAI Certified Health & Safety OHSAS 18001:2007
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