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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 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 ALL DIMENSIONS IN MILLIMETRES (mm)
UNLESS NOTED OTHERWISE.
CONCRETE THRUST BLOCKS (ANCHORAGE)
SHALL BE POSITIONED SYMMETRICALLY WITH
RESPECT TO THE CONNECTING PIPE &
BENDS. 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. COMPRESSIBLE FILLER FOR CONCRETE PROTECTION TO BE IN ACCORDANCE WITH BS EN 622-1 AND BS EN 622-4.
BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PLASTIC PIPES. THE THICKNESS OF COMPRESSIBLE FILLER FOR MAINS < 450mm IN DIAMETER IS TO BE DETAIL 06 - WATER MAIN THRUST AND SUPPORT BLOCKS THRUST BLOCKS SHALL BEAR ON UNDISTURBED SOIL. IF FOR ANY REASON THEY CANNOT THEN THE DEVELOPER SHALL NOTIFY IRISH WATER IMMEDIATELY WITH A PROPOSED SOLUTION. THRUST BLOCKS ARE DESIGNED FOR AN AVERAGE BEARING PRESSURE OF 100KN/m (TYPICAL FOR SOFT CLAY) FOR OTHER CONDITIONS. ACTUAL DIMENSIONS MAY BE ALTERED ON INSTRUCTIONS FROM IRISH WATER. TRENCH DIMENSIONS: REFER TO DRAWING 01. ALL DIMENSIONS ARE IN MILLIMETRES (mr UNLESS NOTED OTHERWISE. CONCRETE IN THRUST BLOCKS SHALL BE GRADE C20/25. THRUST BLOCK REINFORCEMENT REQUIRES SPECIFIC DESIGN. MITTED TO IRISH WATER FOR REVIEW. TRENCH BACKFILL & BEDDING 12. 10. 1. POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.

2. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206. 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. SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL SUBJECT TO REVIEW BY IRISH WATER.

PIPE BEDDING SHALL COMPLY WITH WS 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. CONCRETE THRUST BLOCKS FOR POLYETHYLENE PIPE TO COMPLY WITH THE MANUFACTURER'S REQUIREMENTS. 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 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. WRITTEN APPROVAL
THE USE OF SUCH 12 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. MAY BE <500mm SUBJECT TO CONSIDERATION BEING GIVEN TO THE TRENCH DEPTH, HEALTH & SAFETY & CONSTRUCTION ACCESS REQUIREMENTS.

NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. MARKER TAPE TO BE 400mm WIDE BLUE POLYETHYLENE MATERIAL IN ACCORDANCE WITH EN 12163, PLASTIC PIPES SHALL HAVE WARNING TAPE INCORPORATING A REINFORCED BAND BRACING WIRE. SERVICE PIPES SHALL HAVE 200mm WIDE MESH TAPE. MARKER TAPE TO BE LAID AT TOP OF PIPE BEDDING LAYER. FOR HYDRANT PLATE ALL CHARACTERS SHOULD BE BLACK AND THE REMAINDER OF THE FRONT FACE SHOULD CONFORM TO COLOUR REFERENCE No. 309 (CANARY YELLOW) OF BS 381C. PIPE DIAMETER ON HYDRANT PLATE TO REFER TO WATERMAIN NOT BRANCH.

SLUICE VALVE, AIR VALVE, SCOUR VALVE, WASHOUT HYDRANT AND METER PLATES SHOULD BE CAST IRON. ALL CHARACTERS SHOULD BE BLACK ON WHITE PAINT BACKGROUND. ALTERNATIVE MATERIAL MAY BE USED SUBJECT TO ACCEPTANCE BY IRISH WATER. DETAIL 07 — MARKER POSTS/PLATES ALL CONCRETE TO BE IN ACCORDANCE IS EN 206. CONCRETE SURROUND TO MARKER POST TO BE GRADE C25/30 AND IN ACCORDANCE WITH IS EN 206/2013. MARKER PLATES TO BE MANUFACTURED IN ACCORDANCE WITH BS 3251. PLASTIC MARKER POSTS ARE NOT ACCEPTABLE. WHERE PRACTICAL MARKER PLATES SHALL BE FIXED TO ADJACENT WALLS OR ALTERNATIVELY ATTACHED TO MARKER PLATES TO BE FIXED IN POSITION USING WALL PLUGS AND STAINLESS STEEL SCREWS. BOUNDARY BOX NOTES:

1. THE BOUNDARY BOX HYDRANT CHAMBER TO BE CONSTRUCTED
OF PRECAST CONCRETE UNITS OR HIGH
DENSITY BLOCKWORK. ALTERNATIVELY
PROPRIETARY PREFABRICATED CHAMBER
UNITS MAY ALSO BE USED, SUBJECT TO
REVIEW BY IRISH WATER. 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 IRISH WATER REVIEW, &
COMPLIANCE WITH BS 5911, PART 4.

CONCRETE CHAMBERS SHALL BE
SURROUNDED BY A MINIMUM OF 150mm
COMPACTED CLAUSE 808 MATERIAL AS PER
DRAWING 01. DETAIL 02 — ON—LINE HYDRANT FOR POLYETHYLENE (P.E.) PIPE THE BOUNDARY BOX IS TO BE IN ACCORDANCE WITH THE IRISH WATER SPECIFICATION, INCORPORATING ALL A G1.5 MANIFOLD, STOP—TAP, FROST PLUG & NON—RETURN VALVE.

THE BOUNDARY BOX SHALL BE POSITIONED IN PUBLIC SPACE & AS CLOSE AS POSSIBLE TO THE PROPERTY BOUNDARY BUT NO PART OR FITTING TO BE WITHIN 225mm OF THE PROPERTY LINE. THE SURFACE BOX COVER ON THE
BOUNDARY BOX SHOULD NOT BE LESS THAN
GRADE C (BS 5834: 2-2011): & THE
BOUNDARY BOX SHOULD BE LOCATED SUCH
THAT HEAVIER GRADES OF COVER WOULD
NOT BE REQUIRED. THE BOUNDARY BOX SHALL BE LOCATED WHERE IT IS SAFE TO OPEN THE COVER & ACCESS THE STOP TAP OR VISUALLY READ THE METER, i.e. ON A FOOTPATH OR VERGE, & NOT IN A CARRIAGEWAY. FOR CONNECTION TO AN EXISTING MAIN THE CONNECTION SHALL BE AS PER THE PIPE MANUFACTURER'S SPECIFICATION. DETAIL 08 — CUSTOMER CONNECTION AND BOUNDARY BOX (25mm OD PIPE) ELECTRO FUSION COUPLING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE. ICRETE TO BE IN ACCORDANCE WITH 10. WITH CURRENT VERSION OF 'GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS. THRUST BLOCKS (NOT SHOWN ON DRAWING),
TO BE PROVIDED AS PER STANDARD
DRAWING 06 AT ALL TEES, BENDS, TAPERS,
DEAD ENDS AND PIPES AT STEEP SLOPES.

O. ANTI-CORROSION TAPE TO BE PROVIDED
AROUND BURIED FLANGES. 12. THE BOUNDARY BOX SHALL BE INSTALLED HYGIENICALLY & LEFT CLEAN & FREE OF CONSTRUCTION WASTE OR DIRT FOR LATER METER INSTALLATION BY IRISH WATER.

2. BOX TO BE FOUNDED ON 100mm DEPTH OF C12/15 CONCRETE AND SURROUNDED WITH CLAUSE 808 GRANULAR MATERIAL.

1. THE DESIRABLE MINIMUM COVER FROM THE FINISHED GROUND LEVEL TO THE EXTERNAL CROWN OF A SERVICE CONNECTION SHALL BE 750mm WITH AN ABSOLUTE MINIMUM DEPTH OF 600mm FOR SHORT DISTANCES (SUBJECT TO IRISH WATER AGREEMENT). THE DESIRABLE MAXIMUM COVER FOR A SERVICE CONNECTION PIPE SHOULD BE 1200mm, WHERE PRACTICABLE. ANY SPECIAL ROAD REIN AROUND COVER & FRAM ROAD AUTHORITY'S REQI ALL CONCRETE TO BE IN IS EN 206 NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. THE BOUNDARY BOX IS TO BE INSTALLED AT A MINIMUM DEPTH OF 600mm (+/- 25mm) TO THE CROWN OF THE INLET & OUTLET FITTINGS ON THE OUTSIDE OF THE BOX.

THE SERVICE CONNECTION PIPE SHALL NOT BE WRAPPED AROUND THE SHAFT OF THE BOUNDARY BOX OR BENT IN ANY RADIUS LESS THAN THAT APPROVED BY THE MANUFACTURER. THE PIPE FITTINGS TO THE BOUNDARY BOX SHALL BE APPROVED BY THE BOUNDARY BOX MANUFACTURER. THE SHAFT OF THE BOUNDARY BOX IS TO BE INSTALLED VERTICALLY, & THE SURFACE BOX/COVER INCLINED TO MATCH THE SURFACE GRADIENT. AND FITTINGS TO BE IN EN 545. PE PIPES IN ACCORDANCE WITH BUTION PIPEWORK WITHIN ULD BE SUITABLY SIZED FLOW FROM 20mm SERVICE PIPE. EINSTATEMENT AME SHALL BE TO EQUIREMENTS. 100mm DEEP UND COVERS IN N ACCORDANCE WITH SPECIFIC SEPARATION CLEARANCE
DISTANCES IN EXCESS OF THESE MINIMA
SHALL BE PROVIDED FOR SERVICES SUCH
AS GAS, ELECTRICITY, FIBRE—OPTIC OR OIL
FILLED CABLES AS THE CASE MAY BE. THE
PARTICULAR UTILITY PROVIDERS SHALL BE
CONSULTED TO DETERMINE THESE MINIMUM
SEPARATION DISTANCES AND EVIDENCE OF
THIS CONSULTATION, WITH THE SPECIFIED
SEPARATION DISTANCES, SHALL BE
PROVIDED TO IRISH WATER AT DESIGN
STAGE. 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. DIAMETER GREATER THAN 300mm.

ANY PROPOSED PIPE CROSSING SHOULD BE LOCATED MID-WAY BETWEEN THE WATER JOINTS WITH MINIMUM CLEAR DISTANCE OF 300mm AND UP TO 500mm. ALL CROSSINGS SHOULD BE AT LEAST 500mm AWAY FROM FITTINGS OR JOINTS. DETAIL 03 — ON—LINE AIR VALVE FOR POLYETHYLENE (P.E.) PIPE PRECAST CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER DRAWING 01. DETAIL 09 — TYPICAL SERVICE LAYOUT INDICATING SEPARATION DISTANCES 300mm TO DISTRIBUTION MAINS OF LESS THAN 300mm DIAMETER.
500mm TO TRUNK MAINS BETWEEN 300mm AND 450mm DIAMETER. 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. DUCTILE IRON PIPES/FITTINGS AND PE PIPES/FITTINGS TO BE IN ACCORDANCE WITH IS EN 545 AND IS EN 12201: 2011. SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2m OF THE AIR VALVE LOCATION. WATERMAIN (PROPOSED) SEPARATION DISTANCES THE SEPARATION DISTANCES OUTLINED ARE MINIMUM REQUIREMENTS. 3m TO ARTERIAL WATER MAINS OF GREATER THAN 450mm DIAMETER. AIR VALVE CHAMBERS TO BE OF PRECAST CONCRETE UNITS OR HIGH DENSITY 300mm TO DISTRIBUTION MAINS OF LESS THAN 300mm DIAMETER. 15. 4. 3 WITH CURRENT VERSION OF 'GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS. WHERE DUCTS OR PIPES ARE TO BE LAID CLOSE TO AN EXISTING WATERMAIN OR SEWER IN THE OWNERSHIP OF IRISH WATER, NOTIFICATION IN WRITING SHALL BE PROVIDED A MINIMUM OF 10 DAYS AHEAD OF ADVANCEMENT OF THE WORK. NOTIFICATION IN WRITING IS REQUIRED SHOULD WORKS BE WITHIN THE FOLLOWING DISTANCES FROM AN EXISTING WATERMAIN OR WASTEWATER RISING MAIN: 1m AT EITHER SIDE OF MAINS OF 225mm TO 250mm DIAMETER. 2m AT EITHER SIDE OF MAINS OF 300mm AND 375mm IN DIAMETER. 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. THRUST BLOCKS (NOT SHOWN ON DRAWING),
TO BE PROVIDED AS PER STANDARD
DRAWING 06 AT ALL TEES, BENDS, TAPERS,
DEAD ENDS AND PIPES AT STEEP SLOPES.
ANTI-CORROSION TAPE TO BE PROVIDED
AROUND BURIED FLANGES. 1000mm AT EITHER SIDE OF EXISTING MAINS LESS THAN OR EQUAL TO 200mm DIAMETER. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. NOTIFICATION IN WRITING IS REQUIRED SHOULD WORKS BE WITHIN 1.5m DISTANCE OF A WASTEWATER SEWER. 5000mm AT EITHER SIDE OF EXISTING MAINS OF DIAMETER GREATER THAN 350m DIAMETER. SPECIFIC IRISH WATER ADVISED DISTANCES FOR MAINS IN EXCESS OF 475mm DIAMETER. 5m AT EITHER SIDE OF MAINS OF 400mm AND 450mm IN DIAMETER. WATERMAIN (EXISTING) SEPARATION DISTANCES 2000mm AT EITHER SIDE OF EXISTING MAINS OF 250mm TO 350mm DIAMETER. 500mm AT EITHER SIDE OF MAINS UP TO AND INCLUDING 200mm IN DIAMETER. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS. ALL CONCRETE TO BE IN ACCORDA AROUND, 100mm DEEP LINTH AROUND COVERS IN NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm)
UNLESS NOTED OTHERWISE. DETAILED PROPOSALS, INCLUDING WORK
METHOD STATEMENTS, INSURANCE
CONFIRMATION AND DETAILS OF WORK
COMPLETED OF A SIMILAR NATURE MUST BE
SUBMITTED TO IRISH WATER FOR REVIEW.
ALL SUCH WORKS IN THE VICINITY OF
ARTERIAL WATER MAINS AND SEWER (MAINS
GREATER THAN 400mm) SHALL BE SUBJECT
TO WRITTEN AGREEMENT WITH IRISH WATER
BEFORE CONSTRUCTION COMMENCES ON
SITE. THIS AGREEMENT SHALL ALSO
INCLUDE ANY NECESSARY PROTECTION FOR REQUIREMENTS SHALL ALSO APPLY TO
TRIAL HOLES OR SLIT TRENCHES TO LOCATE
THE MAIN OR GAIN GROUND INFO DATA.
LARGER DIAMETERS >300mm DISTRIBUTION
AND TRUNK MAINS, IRISH WATER MUST BE
NOTIFIED AT LEAST 1 MONTH IN ADVANCE.
DEVELOPERS SHALL ALSO COMPLY WITH
ANY NOTIFICATION REQUIREMENTS OF OTHER
UTILITY PROVIDERS (ESB, GAS MAIN,
TELECOMMUNICATION ETC.) UNDER STRUCTURES, EXISTING OR PROPOSED, OR IN CLOSE PROXIMITY TO ANY EXISTING STRUCTURES OR FEATURES THAT WILL INHIBIT ACCESS FOR POST INSTALLATION MAINTENANCE AND ACCESS. ANY DAMAGE SHALL BE NOTIFIED IMMEDIATELY TO IRISH WATER. THE PERSON WHO CAUSES THE DAMAGE TO A WATER MAIN OR FITTING WILL BE DEEMED TO HAVE COMMITTED AN OFFENCE UNDER SECTION 45 OF THE WATER SERVICES ACT 2007. SLUICE VALVE CHAMBERS SHALL BE
COVERED WITH APPROVED HEAVY DUTY
METAL COVERS TO IS 261 OR BS 5834.
COVER AND FRAME SHALL BE SUITABLE FOR
ROAD AND TRAFFIC CONDITIONS AND IS
SUBJECT TO REVIEW BY IRISH WATER. DETAIL 04 - SLUICE VALVE FOR POLYETHYLENE (P.E.) PIPE (<350mm Ø) WATERMAINS OF ANY SIZE SHALL NOT BE MITHIN 1m OF THE BOUNDARY TO A PREMISES. 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. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER DRAWING 01. ALL SLUICE VALVES SHALL BE ANTI-CLOCKWISE CLOSING. SLUICE VALVES SHALL BE RESILIENT SEATED AND SHALL COMPLY WITH BS 5163-1, BS 5163-2, IS EN 1074-1, IS EN 1074-2, OR EQUIVALENT E.U. SPECIFICATIONS. VE CHAMBER TO BE CONSTRUCTED OF CAST CONCRETE UNITS OR HIGH SITY BLOCKWORK. ALTERNATIVELY PREFABRICATED CHAMBER TO MAY ALSO BE USED, SUBJECT TO TEW BY IRISH WATER. ROOF SLABS ALL BE DESIGNED TO CARRY ALL LIVE DS & DEAD LOADS, & CONSIST OF A WFORCED CONCRETE SLAB OF IN—SITU JCRETE, GRADE C30/37, WITH A MINIMUM CXNESS OF 150mm. ALTERNATIVELY,—CAST CONCRETE ROOFS MAY BE USED, SJECT TO IRISH WATER REVIEW, & WITH BS 5911, PART 4. DING WORK 10. 12. $\vec{=}$ 13. 10. <u>1</u> WHERE THE DESIGN DEVIATES FROM THIS STANDARD DETAIL, THE DESIGN SHALL BE SUBJECT TO THE REVIEW OF IRISH WATER.

SEPARATION DISTANCES BETWEEN UTILITIES MAY BE INCREASED TO PROVIDE FOR CHAMBER & THRUST BLOCKS AT BENDS. 2. 450x450mm INTERNAL DIMENSION
CHAMBERS MAY BE PROVIDED SUBJECT TO
REVIEW BY IRISH WATER. SUCH CHAMBERS
SHALL BE PROVIDED WITH GRADE 'A' HEAVY
DUTY COVER & FRAME & STAMPED 'SV'. WITH CURRENT VERSION OF GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER AND FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206. THRUST BLOCKS (NOT SHOWN ON DRAWING), TO BE PROVIDED AS PER STANDARD DRAWING 06 AT ALL TEES. BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GREEN AREAS. ANTI-CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.

IJAL 05 — NON-MECH. METER CHAMBER 1. 250mm ø) ALL DIMENSIONS ARE IN MILLMETRES (mm) ALL DIMENSIONS ARE IN MILLMETRES (mm) BURLESS NOTED OTHERWISE. 9. ALL CHAMBERS TO BE IN ACCORDANCE WITH IS EN AD BETALL TO BE PROVIDED BY THE DEVLOPER BASED ON GROUND CONCRETE GRADE ACONSTRUCTURAL DESIGN AND REINFORCED CONCRETE GRADE ACONSTRUCTURAL UNE LANDS & DEAD LOADS, & CONSIST OF A REINFORCED CONCRETE SLAB OF IN-STID CONCRETE, GRADE SLAB OF IN-STID CONCRETE, GRADE CONCRETE ROOTS MAY BE USED, SUBJECT TO RESH WATER REVEW, & COMPLIANCE WITH BS 5911, PART 4. CONCRETE FOR FLOW METER CHAMBER TO BE COVERE TO HER REQUIRED WITH RUBBER SCALING CASASET BETWEEN UNITS, COMPLYING CONCRETE SURFACING OF GRADE ACCORDANCE WITH SE VACCORDANCE	CONCRETE PLINTH AROUND COVERS IN GRASS AREAS. ANTI-CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
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2.) DO NOT SCALE. USE FIGURED

DIMENSIONS ONLY

TO BE READ IN CONJUNCTION HIGGINS ENGINEERING DRAWING

NOTES

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