A1	

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 & DETAIL 06 — WATER MAIN THRUST AND SUPPORT BLOCKS 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 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. CONCRETE IN THRUST BLOCKS SHALL BE SRADE C20/25. REST PRESSURES GREATER THAN 18 REVIEW. THRUST BLOCK DESIGN IS TO BE SMITTED TO IRISH WATER FOR REVIEW. BLOCK REINFORCEMENT REQUIRES DESIGN. 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 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 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.

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. CONCRETE THRUST BLOCKS FOR POLYETHYLENE PIPE TO COMPLY WITH THE MANUFACTURER'S 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. 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. 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 PISCH WATER DETAIL 07 — MARKER POSTS/PLATES CONCRETE SURROUND TO MARKER POST TO BE GRADE C25/30 AND IN ACCORDANCE WITH IS EN 206/2013. WHERE PRACTICAL MARKER PLATES SHALL
BE FIXED TO ADJACENT WALLS OR
ALTERNATIVELY ATTACHED TO MARKER MARKER PLATES TO BE MANUFACTURED IN ACCORDANCE WITH BS 3251. PLASTIC MARKER POSTS ARE NOT ACCEPTABLE. PLATES TO BE FIXED IN POSITION USING WALL PLUGS AND STAINLESS STEEL SCREWS. 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. MTH 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. ALL HYDRANTS, SURFACE BOX FRAMES & COVERS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF IS EN 14339, IS EN 1074-6 & BS 750. FIRE HYDRANTS SHALL BE TYPE 2. THE HYDRANT INLET SHALL BE 80mm DIAMETER WITH PN16. DETAIL 02 - ON-LINE HYDRANT FOR POLYETHYLENE (P.E.) PIPE GENERAL NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETERS (mm)
UNLESS NOTED OTHERWISE. ELECTRO FUSION COUPLING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206. 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) 4. 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. 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. . NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. ALL CONCRETE TO BE I 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 BOUNDARY BOX SHALL BE INSTALLED HYGIENICALLY & LEFT CLEAN & FREE OF CONSTRUCTION WASTE OR DIRT FOR LATER METER INSTALLATION BY IRISH WATER.

BOX TO BE FOUNDED ON 100mm DEPTH OF C12/15 CONCRETE AND SURROUNDED WITH CLAUSE 808 GRANULAR MATERIAL. HE PIPE FITTINGS TO THE BOUNDARY BOX HALL BE APPROVED BY THE BOUNDARY OX MANUFACTURER. AND FITTINGS TO BE IN EN 545. PE PIPES IN ACCORDANCE WITH BUTION PIPEWORK WITHIN ULD BE SUITABLY SIZED FLOW FROM 20mm SERVICE PIPE. 100mm DEEP UND COVERS IN INSTATEMENT ME SHALL BE TO QUIREMENTS. N ACCORDANCE WITH DETAIL 03 -ON-LINE AIR VALVE FOR POLYETHYLENE (P.E.) PIPE 500mm TO TRUNK/ARTERIAL MAINS OF 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. 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 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. 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. DUCTILE IRON PIPES/FITTINGS AND PE PIPES/FITTINGS TO BE IN ACCORDANCE WITH IS EN 545 AND IS EN 12201:2011. PRECAST CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER DRAWING OF THE SEPARATION DISTANCES OUTLINED ARE MINIMUM REQUIREMENTS. 3m TO ARTERIAL WATER MAINS OF GREATER THAN 450mm DIAMETER. SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2m OF THE AIR VALVE LOCATION. 300mm TO DISTRIBUTION MAINS OF LESS HAN 300mm DIAMETER. 500mm AT EITHER SIDE OF MAINS UP TO AND INCLUDING 200mm IN DIAMETER.

1m AT EITHER SIDE OF MAINS OF 225mm TO 250mm DIAMETER.

2m AT EITHER SIDE OF MAINS OF 300mm AND 375mm IN DIAMETER. NOTIFICATION IN WRITING IS REQUIRED SHOULD WORKS BE WITHIN THE FOLLOWING DISTANCES FROM AN EXISTING WATERMAIN OR WASTEWATER RISING MAIN: 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. 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. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. WATERMAIN (EXISTING) SEPARATION DISTANCES 1000mm AT EITHER SIDE OF EXISTING MAINS LESS THAN OR EQUAL TO 200mm 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. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS. 00mm AT EITHER SIDE OF EXISTING INS OF 250mm TO 350mm DIAMETER. Omm AT EITHER SIDE OF EXISTING NS OF DIAMETER GREATER THAN 350mm METER. DETAILED PROPOSALS, INCL.

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.) PROPOSED, OR IN CLOSE PROXIMITY TO ANY EXISTING STRUCTURES OR FEATURES THAT WILL INHIBIT ACCESS FOR POST INSTALLATION MAINTENANCE AND ACCESS. 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. 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. S: ALL DIMENSIONS ARE IN MILLIMETRES (M UNLESS NOTED OTHERWISE. ALL SLUICE VALVES SHALL BE ANTI-CLOCKWISE CLOSING. NTERMAINS OF ANY SIZE SHALL NOT BEITHIN 1m OF THE BOUNDARY TO A 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. NCRETE CHAMBERS SHALL BE JRROUNDED BY A MINIMUM OF 150mm DMPACTED CLAUSE 808 MATERIAL AS PER RAWNG 01. VE CHAMBER TO BE CONSTRUCTED OF CAST CONCRETE UNITS OR HIGH SITY BLOCKWORK. ALTERNATIVELY PRIETARY PREFABRICATED CHAMBER IS MAY ALSO BE USED, SUBJECT TO EW BY IRISH WATER. ROOF SLABS LL BE DESIGNED TO CARRY ALL LIVE DS & DEAD LOADS, & CONSIST OF A IFORCED CONCRETE SLAB OF IN—SITU CRETE, GRADE C30/37, WITH A MINIMUM CARE C30/37, WITH A MINIMUM C30/37, WITH C30/37, WITH A MINIMUM C30/37, WITH C30/37, WI AND ACCESS. WITH CURRENT VERSION OF GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' BY THE DEPT. OF TRANSPORT, TOURISM & SPORT, OR TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS. . 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'. 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. ANTI-CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES. W ROAD CONSTRUCTION & SURFACE USH TO BE TO ROAD AUTHORITY QUIREMENTS. NOTES:

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm)
UNLESS NOTED OTHERWISE. DETAIL 10 - SCOUR VALVE RISING MAIN (<200mm ø) 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 BS 5911, PART 4. DETAILS TO BE PROVIDED BY THE
DEVELOPER AND SUBMITTED TO IRISH WATER 1
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 BS 5911, PART 4. PRECAST UNITS COMPLETED WITH RUBBER
SEALING GASKET BETWEEN UNITS, COMPLYING COMPLYING THE REQUIREMENTS OF IS EN 1917 AND BS 5911—PART 3, COMPLETE WITH 150mm CONCRETE SURROUND MAY BE USED AS AN ACCEPTABLE ALTERNATIVE. CONCRETE SURROUND TO BE GRADE C16/20 IN ACCORDANCE WITH IS EN 206. VALVE SURFACE BOX TO BE IN ACCORDANCE WITH IS 261 OR BS 5834. SCOUR CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS EN 124 RATING D400. COVERS AND FRAMES SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS SUBJECT TO REVIEW BY IRISH WATER. SLUICE VALVES SHALL E WITH DUCTILE IRON RES VALVES, SUITABLE FOR MAINS. THEY SHALL CON REQUIREMENTS IS EN 10 HAVE THE APPROPRIATE ANTI—CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES. 200mm ALL ROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GRASS AREAS. CONCRETE FOR FLOW METER CHAMBER TO BE C30/37. SCOUR CHAMBER TO BE IN ACCORDANCE WITH BS EN 1992-3. LL BE DOUBLE FLANGED RESILIENT SEAL GATE 'OR USE IN RISING COMPLY WITH THE V 1074 AND THEY SHALL IATE CE MARKINGS. DI SHOWN ON DRAWING),
PER STANDARD
4 AT ALL TEES, BENDS,
AND PIPES AT STEEP 1 MILLIMETRES (mm) 1SE. METER CHAMBER CHAMBER FOUL 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. 4. 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. 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. 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. BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY IRISH ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. ALL DUCTLE IRON PIPEWORK AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 598. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH AROUND COVERS IN GREEN AREAS. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES. JCTILE IRON PIPES AND FITTINGS TO BE IN CORDANCE WITH IS EN545. PE PIPES AND TINGS TO BE IN ACCORDANCE WITH IS EN 201: 201. PLANNING AAI PALMERSTOWN LIMITED

NOTES

RAL

HESE DRAWINGS TO BE READ IN CONJUNCTION WITH A
ELEVANT HAYES HIGGINS ENGINEERING DRAWINGS

ND SPECIFICATIONS.

2.) DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.

HAYES HIGGINS
PARTNERSHIP
The Glass House, 11 Coke Lane

 $\mathbb{D}\mathbb{W}$

 \leq

밁

AS

SHOWN

20.04.2021

T

20D018

WATERMAIN DETAILS SHEET 4 OF 4

IRISH WATER

APARTMENTS AT UNITS 64 & 65 CHERRY ORCHARD INDUSTRIAL ESTATE

The Glass House, 11 Coke Lane mithfield, Dublin 7. Tel: 01 6612321 E-mail: admin@hayeshiggins.ie

Gas House Lane, Kilkenny, Tel: (056) 7764710