

NOTES

- GENERAL
- THESE DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT HAYES HIGGINS ENGINEERS' DRAWINGS AND SPECIFICATIONS.
 - DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.

<p>DETAIL 01 – TRENCH BACKFILL & BEDDING</p> <p>NOTES:</p> <ol style="list-style-type: none"> ALL DIMENSIONS ARE IN MILLIMETRES (mm) THE MINIMUM DEPTH OF COVER FROM THE TOP 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 LOADINGS ARE ANTICIPATED. THE DESIRABLE MINIMUM DEPTH OF COVER SHALL BE 1000mm WHERE PROPOSED TO BE GRADED AND NOT EXCEED 3.0m. CLAS 804/808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. CLASS 808 IS TO BE USED WITHIN 500mm OF CURBENT BOUND MATERIALS. CONCRETE CHANNELS OR CONCRETE STRUCTURES OR CONCRETE PIPES SHALL BE PROTECTED BY A MINIMUM OF 150mm BELOW THE ACTUAL DEPTH OF THAT DESCRIBED ABOVE (CLASS 804 OR CLASS 808) OF THE PIPE TRENCH WHICH ONLY BE ALLOWED BY RISH WATER WHERE THE ROADS AUTHORITY IN WHOSE FUNCTIONAL AREA THE DEVELOPMENT IS LOCATED. PROVIDES WRITTEN APPROVAL TO THE DEVELOPER TO THE USE OF SUCH SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL SUBJECT TO REVIEW BY RISH WATER. PIPE BEDDING SHALL COMPLY WITH BS 4489-2 AND BS 4489-3 (GRANULAR BEDDING SHALL HAVE 20% MORE FINES GRADED AGGREGATE OR 10mm SIEVE SIZED AGGREGATE TO IS EN 12324) TRENCH WIDTHS FOR PIPE SIZES 500mm MAY BE 500mm SUBJECT TO THE CONSIDERATION BEING GIVEN TO THE TRENCH DEPTH, HEALTH & SAFETY & CONSTRUCTION ACCESS REQUIREMENTS NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY SPECIFICATION FOR ROAD WORKS SHALL REFLECT THE EXCAVATED MATERIAL ALTERNATIVELY, SPECIAL PIPE SUPPORT ARRANGEMENTS, INCLUDING PLANE ETC. MAY BE REQUIRED WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE SUCH ASSESSMENT BY RISH WATER BEFORE PROCEEDING WITH THE WORK. PIPES SHALL NOT BE SUPPORTED ON AT ANY POINT ALONG THE TRENCH BOX SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLASS 804/808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. ALL MATERIALS SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL. 	<p>DETAIL 02 – MAN-LEAK HYDRANT COVER</p> <p>NOTES:</p> <ol style="list-style-type: none"> ALL DIMENSIONS ARE IN MILLIMETRES (mm) HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS ON AT ALL TEST BLOCKS, TAPERS AND RIFLE CONDITIONS AND IS SUBJECT TO REVIEW BY RISH WATER. ALL HYDRANTS, SURFACE BOX FRAMES & COVERS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF IS EN 14339 IS EN 1074-6 & BS 520. PRECAST CONCRETE SHALL BE 150mm THICK COMPACTED CLASS 808 MATERIAL AS PER DRAWING 01. HYDRANT CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OF HIGH DENSITY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED. SUBJECT TO REVIEW BY RISH WATER. ROOF SLABS SHALL BE DESIGNED TO CARRY ALL LIVE LOADS & ROAD LOADS, & CONSIST OF A REINFORCED CONCRETE SLAB OF A MINIMUM THICKNESS OF 150mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED. SUBJECT TO RISH WATER REVIEW & COMPLIANCE WITH BS 5911 PART 4. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLASS 808 MATERIAL AS PER DRAWING 01. 	<p>DETAIL 03 – SIDE LINE AIR VALVE COVER</p> <p>NOTES:</p> <ol style="list-style-type: none"> ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE, AIR VALVE CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS ON AT ALL TEST BLOCKS, TAPERS AND RIFLE CONDITIONS AND IS SUBJECT TO REVIEW BY RISH WATER. RAE VALVES SHALL COMPLY WITH THE RELEVANT PROVISIONS OF IS EN 1074-4, AIR VALVES SHALL BE DOUBLE OPERING VALVE GATE VALVE CONFORMING TO IS EN 1074-2 DESIGN OR A BUTTERFLY VALVE TO IS EN 1074-2. SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2m OF THE AIR VALVE LOCATION. AIR VALVE CHAMBERS TO BE OF PRECAST CONCRETE UNITS OF HIGH DENSITY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED. SUBJECT TO REVIEW BY RISH WATER. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLASS 808 MATERIAL AS PER DRAWING 01. DUCTILE IRON PRES/FITTINGS AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545 AND IS EN 12201:2011. 	<p>DETAIL 04 – SLURGE VALVE COVER</p> <p>NOTES:</p> <ol style="list-style-type: none"> ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE, SLURGE VALVE CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS ON AT ALL TEST BLOCKS, TAPERS AND RIFLE CONDITIONS AND IS SUBJECT TO REVIEW BY RISH WATER. SURGE VALVES SHALL BE RECENTLY SCALED TO IS EN 1074-1, IS EN 1074-2, OR EQUIVALENT EU SPECIFICATIONS. ALL SLURGE VALVES SHALL BE ANTI-CLOGGING DESIGN. VALVE CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OF HIGH DENSITY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED. SUBJECT TO REVIEW BY RISH WATER. ROOF SLABS SHALL BE DESIGNED TO CARRY ALL LIVE LOADS & ROAD LOADS, & CONSIST OF A REINFORCED CONCRETE SLAB OF A MINIMUM THICKNESS OF 150mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED. SUBJECT TO RISH WATER REVIEW & COMPLIANCE WITH BS 5911 PART 4. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLASS 808 MATERIAL AS PER DRAWING 01. DUCTILE IRON PRES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545, FE PRES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201:2011. 	<p>DETAIL 05 – NON-INCH WATER CHAMBER (40 – 250mm Ø)</p> <p>NOTES:</p> <ol style="list-style-type: none"> ALL DIMENSIONS ARE IN MILLIMETRES (mm) STRUCTURAL DESIGN AND REINFORCEMENT TO BE PROVIDED TO RISH WATER FOR REVIEW. ROOF SLABS SHALL BE DESIGNED TO CARRY ALL LIVE LOADS & ROAD LOADS, & CONSIST OF A REINFORCED CONCRETE SLAB OF A MINIMUM THICKNESS OF 225mm. ALTERNATIVELY, PRE-CAST CONCRETE ROOFS MAY BE USED. SUBJECT TO RISH WATER REVIEW & COMPLIANCE WITH BS 5911 PART 4. CONCRETE FOR FLOW METER CHAMBERS TO BE C30/37 PRECAST UNITS COMPLETED WITH RUBBER COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS CONCRETE SURROUNDING MAY BE USED AS AN ALTERNATIVE TO ROAD AUTHORITY'S REQUIREMENTS. EXISTING ROAD RENOVATION TO COMPLY WITH CURRENT VERSION OF 'GUIDELINES FOR THE DEPT. OF TRANSPORT INFRASTRUCTURE IRELAND REQUIREMENTS. DUCTILE IRON PRES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545, FE PRES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 12201:2011.
<p>DETAIL 06 – WATER MAIN THRUST AND SEPARATOR BLOCKS</p> <p>NOTES:</p> <ol style="list-style-type: none"> ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. CONCRETE THRUST BLOCKS (ANCHORED) SHALL BE POSITIONED SYMMETRICALLY WITH RESPECT TO THE CONNECTING PIPE & BENDS. TRENCH DIMENSIONS REFER TO DRAWING 01. THRUST BLOCKS SHALL BEAR ON UNDISTURBED SOIL. IF FOR ANY REASON THEY CANNOT THEN THE DEVELOPER SHALL NOTIFY RISH WATER IMMEDIATELY WITH A PROPOSED SOLUTION. THRUST BLOCK REINFORCEMENT REQUIRES SPECIFIC DESIGN. FOR TEST PRESSURES GREATER THAN 18 BAR, THRUST BLOCK DESIGN IS TO BE SUBMITTED TO RISH WATER FOR REVIEW. THRUST BLOCKS ARE DESIGNED FOR AN AVERAGE BEARING PRESSURE OF 100KN/m² (TYPICAL FOR SIFT CLAY) FOR OTHER CONDITIONS ACTUAL DIMENSIONS MAY BE ALTERED ON INSTRUCTIONS FROM RISH WATER. CONCRETE IN THRUST BLOCKS SHALL BE GRADE C20/25 COMPRESSIBLE FILTER FOR CONCRETE PROTECTION TO BE IN ACCORDANCE WITH BS EN 12407-2:2011. FILTER TO BE 917 IN CONTACT WITH PLASTIC PIPS. THE THICKNESS OF COMPRESSIBLE FILTER FOR MAINS < 450mm IN DIAMETER IS TO BE 18mm. 	<p>DETAIL 07 – WORKER POSTS/PLATES</p> <p>NOTES:</p> <ol style="list-style-type: none"> WHERE PRACTICAL, WORKER PLATES SHALL BE FIXED TO JOINTS/WALLS OR ALTERNATIVELY ATTACHED TO WORKER WALL PLUGS AND STAINLESS STEEL SCREWS. PLATES TO BE FIXED IN POSITION USING WORKER PLATES TO BE MANUFACTURED IN ACCORDANCE WITH BS 3351. FOR HORIZONTAL PLATE ALL CHARACTERS SHOULD BE BLACK AND THE REMAINDER OF THE FRONT FACE SHOULD CONFORM TO COLOUR REFERENCE No. 599 (CANARY YELLOW) OF BS 381C. PRE-PAINTER ON HORIZONTAL PLATE TO REFER TO WATERMAN NOT BRANCH. SLURGE VALVE, AIR VALVE, SCOUR VALVE, WASHOUT HYDRANT AND METER PLATES SHOULD BE CAST IRON. ALL CHARACTERS SHOULD BE BLACK ON WHITE PAINT. WORKER PLATES MAY BE USED SUBJECT TO APPROVAL BY RISH WATER. CONCRETE SURROUND TO WORKER POST TO BE GRADE C25/30 AND IN ACCORDANCE WITH IS EN 206. PLASTIC WORKER POSTS ARE NOT ACCEPTABLE. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206. 	<p>DETAIL 08 – CUSTOMER CONNECTION AND BOUNDARY BOX (200mm Ø PIPES)</p> <p>NOTES:</p> <ol style="list-style-type: none"> ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. FOR CONNECTION TO AN EXISTING MAIN THE MANUFACTURER'S SPECIFICATION. ELECTRO FUSION COUPLING TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206. BOUNDARY BOX NOTES: THE BOUNDARY BOX IS TO BE IN ACCORDANCE WITH THE RISH WATER SPECIFICATION, INCORPORATING ALL 4.1.5 MANIPOLA STOP-TAP, FROST PLUG & NON-RETURN VALVE. IN PUBLIC SPACES & AS CLOSE AS POSSIBLE TO THE PROPERTY LINE. THE DESIRABLE MINIMUM COVER FROM THE FINISHED GROUND LEVEL TO THE EXTERNAL SERVICE CONNECTION SHALL BE 750mm WITH AN ABSOLUTE MINIMUM OF 500mm. 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 CARPARKWAY. BOUNDARY BOX SHOULD NOT BE LESS THAN GRADE C (BS 5834-2:2011), & THE BOUNDARY BOX SHOULD BE LOCATED SUCH THAT REARER GRADES OF COVER WOULD NOT BE REQUIRED. 	<p>DETAIL 09 – TRENCH SERVICE LAYOUT INDICATING SEPARATION DISTANCES</p> <p>NOTES:</p> <ol style="list-style-type: none"> THE SEPARATION DISTANCES OUTLINED ARE MINIMUM REQUIREMENTS. DISTANCES IN EXCESS OF THESE MINIMUM SHALL BE PROVIDED FOR SERVICES SUCH AS GAS, ELECTRICITY, FIBRE-OPTIC OR OIL FILLED CABLES AS THE CASE MAY BE. THE SEPARATION DISTANCES SHALL BE THE MINIMUM REQUIRED TO OBTAIN THE BEST PRACTICE FOR THE SEPARATION DISTANCES AND EXCEEDING THESE SEPARATION DISTANCES SHALL BE PROVIDED TO RISH WATER AT DESIGN STAGE. VERTICAL 300mm TO DISTRIBUTION MAINS OF LESS THAN 300mm DIAMETER. 500mm TO THINK MAINS BETWEEN 300mm AND 450mm DIAMETER. 500mm TO DISTRIBUTION MAINS OF LESS THAN 300mm DIAMETER. 300mm TO THINK MAINS BETWEEN 300mm AND 450mm DIAMETER. 500mm AT OTHER SIDE OF EXISTING MAINS OF DIAMETER GREATER THAN 300mm DIAMETER. WHERE DUCTS OR PIPES ARE TO BE LAID CLOSE TO AN EXISTING WATERMAIN OR SEWER IN THE OWNERSHIP OF RISH WATER, NOTIFICATION IN WRITING SHALL BE PROVIDED A MINIMUM OF 10 DAYS AHEAD OF ADVANCEMENT OF THE WORK. NOTIFICATION IN WRITING IS REQUIRED UNDER WORKS BE WHEN 15m DISTANCE MAY BE FROM FITTINGS OR JOINTS. 	<p>DETAIL 10 – WATERMAIN (EXISTING) SEPARATION DISTANCES</p> <p>NOTES:</p> <ol style="list-style-type: none"> 500mm AT EITHER SIDE OF MAINS UP TO AND INCLUDING 200mm IN DIAMETER. 1m AT OTHER SIDE OF MAINS OF 225mm AND 300mm DIAMETER. 5m AT OTHER SIDE OF MAINS OF 400mm AND 450mm IN DIAMETER. SEWER, RISH WATER, POWERED SERVICES, RISH MAINS IN EXCESS OF 175mm DIAMETER. NOTIFICATION IN WRITING IS REQUIRED UNDER WORKS BE WHEN 15m DISTANCE MAY BE FROM AN EXISTING WATERMAIN OR SEWER BEING BENEATH. 1000mm AT EITHER SIDE OF EXISTING MAINS LESS THAN OR EQUAL TO 200mm DIAMETER. 3000mm AT OTHER SIDE OF EXISTING MAINS OF 250mm TO 350mm DIAMETER. 5000mm AT OTHER SIDE OF EXISTING MAINS OF DIAMETER GREATER THAN 350mm DIAMETER. WHERE DUCTS OR PIPES ARE TO BE LAID CLOSE TO AN EXISTING WATERMAIN OR SEWER IN THE OWNERSHIP OF RISH WATER, NOTIFICATION IN WRITING SHALL BE PROVIDED A MINIMUM OF 10 DAYS AHEAD OF ADVANCEMENT OF THE WORK. NOTIFICATION IN WRITING IS REQUIRED UNDER WORKS BE WHEN 15m DISTANCE MAY BE FROM FITTINGS OR JOINTS.
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NO.	ISSUED FOR	DATE	BY	FOR
1	ISSUED FOR PLANNING		DM	DM
2	REVISION		DM	DM

PLANNING

CLIENT
DUN LAOGHAIRE - RATHDOWN COUNTY COUNCIL

PROJECT NAME
APARTMENTS AT ST. LAURENCE'S PARK

DRAWING NAME
IRISH WATER
WATERMAIN DETAILS
SHEET 4 OF 4

PROJECT No.
17D102

DRAWING No.
04

REVISION
P

SCALE	ISSUED DATE	APPROVED BY
1:200	01.05.2020	DM
SCALE	ISSUED DATE	APPROVED BY
DW	LMI	DH

HAYES HIGGINS PARTNERSHIP

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