

11. CONNECTIONS TO THE MAINS WHICH ARE THE PROPERTY OF THE IRISH 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 WITH IRISH WATER BEFORE THE WORK IS UNDERTAKEN.

THE MINIMUM COVER TO A WATERMAIN SHALL BE 750mm, THE MAXIMUM COVER SHALL BE 900mm UNLESS NOTED OTHERWISE.

WATERMAINS SHALL BE LAID UNDER FOOTPATHS PREFERABLY OR GRASS MARGINS WHERE APPROVED. NO PIPE, CONDUIT, CABLE OR OTHER SERVICE SHALL BE LAID LONGITUDINALLY OVER THE LINE OF A WATERMAIN.

NO CABINET POLES, JUNCTION BOXES OR CHAMBERS SHALL BE CONSTRUCTED OVER A WATERMAIN.

DUCTILE IRON (DI) PIPES SHALL CONFORM TO IS EN 545 AND SHALL HAVE MINIMUM C40 PRESSURE RATING. DUCTILE IRON FITTINGS SHALL HAVE 16 BAR RATING AT LEAST DI PIPEWORK SHALL BE COATED INTERNALLY WITH A BLAST FURNACE CEMENT LINING WHICH COMPRISES WITH THE REQUIREMENTS OF BS 6920. EXTERNAL PROTECTION SHALL INCLUDE AN ALLOY OF ZINC AND ALUMINUM WITH A MINIMUM 15% ALUMINUM WITH OR WITHOUT OTHER MATERIALS HAVING A MASS OF 400g/m² COMPETE WITH A FINISHING LAYER OF BLUE FUSION BONDED EPOXY IN ACCORDANCE WITH IS EN 14901.

PIPES SHALL BE HDPE (BLUE PIPE) UNLESS NOTED OTHERWISE BY AGREEMENT WITH THE LOCAL AUTHORITY. DUCTILE IRON PIPES SHALL BE USED UNDER ROADS OF CLASSIFICATION "DISTRICT DISTRIBUTOR" UPWARDS UNLESS NOTED OTHERWISE.

WATERMAINS SHALL NOT BE LAID UNDER WALLS OR AREAS DESIGNATED FOR TREES/SHRUBS/FLOWERS.

PIPES SHALL CONFORM TO THE UK WATER INDUSTRY SPECIFICATION OR EQUIVALENT E.U. SPECIFICATION.

12. IT IS THE CONTRACTORS RESPONSIBILITY TO ENSURE THAT ALL WORKS ARE CONSTRUCTED IN ACCORDANCE WITH THE IRISH WATER CODE OF PRACTICE AND STANDARD DETAILS. THE CODE OF PRACTICE AND STANDARD DETAILS ARE AVAILABLE TO DOWNLOAD FROM THE IRISH WATER WEB SITE AT www.water.ie/connections/developer-services/ Where the DETAILS CONTAINED ON THIS DRAWING DIFFER FROM THE IRISH WATER CODE OF PRACTICE OR STANDARD DETAILS THIS MUST BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY. IRISH WATER STANDARDS WILL TAKE PRECEDENCE

5010* 2710* ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.

CONCRETE THRUST BLOCKS (ANCHORAGE) SHALL BE POSITIONED SYMMETRICALLY WITH RESPECT TO THE CONNECTING PIPE & BENDS. TRENCH DIMENSIONS: DRAWING No'S. STD-W-13.

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 BLOCK REINFORCEMENT REQUIRE SPECIFIC DESIGN.

FOR TEST PRESSURES GREATER THAN 18 BAR, THRUST BLOCK DESIGN IS TO BE SUBMITTED TO IRISH WATER FOR APPROVAL.

GRADIENT

SPACING

TABLE OF DIMENSIONS FOR STEEPLY INCLINED PIPELINES

BELOW 1 IN 2 TO 1 IN 4

11.0m

THRUST BLOCK REINFORCEMENT REQUIRE SPECIFIC DESIGN.

FOR TEST PRESSURES GREATER THAN 18 BAR, THRUST BLOCK DESIGN IS TO BE SUBMITTED TO IRISH WATER FOR APPROVAL.

THRUST BLOCKS ARE DESIGNED FOR AN AVERAGE BEARING PRESSURE OF 100 KN/m (TYPICAL FOR SOFT CLAY) FOR OTHER CONDITIONS. ACTUAL DIMENSIONS MAY BE ALTERED ON INSTRUCTIONS FROM IRISH WATER.

CONCRETE IN THRUST BLOCKS SHALL BE GRADE C20/25.

COMPRESSIBLE FILLER FOR CONCRETE PROTECTION TO BE IN ACCORDANCE WITH BS EN 622-1 AND BS EN 622-4. BITUMINOUS MATERIAL NOT BE PUT IN CONTACT WITH PLASTIC PIPES. THE THICKNESS OF COMPRESSIBLE FILLER FOR MAINS < 450mm IN DIAMETER IS TO BE 18mm.

CONCRETE THRUST BLOCKS FOR POLYETHYLENE PIPE TO COMPLY WITH THE MANUFACTURES REQUIREMENTS.

CONCRETE THRUST BLOCKS FOR POLYETHYLENE PIPE TO COMPLY WITH THE MANUFACTURES REQUIREMENTS.

POLYETHYLENE PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.

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5.5m

16.6m

10.

1 IN 2 & STEEPER

1 IN 5 TO 1 IN 6

1 IN 4 TO 1 IN 5

400

1410

1380	1130	940	820	720	580	480	380	320	
700	570	470	420	360	300	240	190	160	
1000	1000	900	750	500	380	320	300	225	
1500	1400	1300	1200	1050	950	800	650	450	
3550*	2890	2330	2110	1840	1480	1210	980	760	
2350	2200	2000	1850	1700	1500	1350	1150	950	
1900	1750	1600	1500	1350	1200	1050	950	750	
1500	1350	1250	1150	1050	950	850	700	600	
600	500	450	400	350	300	250	200	150	

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BAR TO 15 BAR TEST PRESSURE

DIMENSIONS

< 12 BAR TEST PRESSURE

DIMENSIONS

				_	5 BAR T	0 18 BAR	15 BAR TO 18 BAR TEST PRESSURE	ESSURE			
	NOM.					DIMENSIONS	SNOIS				ı 1
	(mm)	Α	В	C	D	m	۳,	G	_	د	
	100	750	400	205	100	220	400	530	800	650	400
	150	1250	700	350	180	250	500	890	1000	850	650
	200	1650	890	450	230	320	700	1170	1250	1000	800
	250	1960	1060	540	270	350	900	1370	1450	1150	900
	300	2300	1200	640	320	500	1100	1630	1650	1300	1050
8	350	2930	1580	830	410	750	1200	2070	1850	1500	1150
ö	400	3510	1900	970	190*	1000	1300	2490	2000	1600	1250
8	450	3810	2270	1160	580	1000	1350	2970	2150	1700	1350
50	500	4340*	2380	1210	610	1000	1400	3700	2250	1750	1400
8	600	6370*	3450*	1760	890	1000	1500	4500*	2400	2050	1650

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ARCHITECT CONROY CROWE KELLY ARCHITECTS KINWEST LTD.

CLIENT PROJECT

TITLE AUBURN, MALAHIDE, CO. DUBLIN WATERMAIN CONSTRUCTION DETAILS SHEET 2 OF 4

SCALE 1:25 @ A1 DRAWN **PJD** MD DESIGNED 19-020 DRG. NO. **P311** APR '20
REVISION

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.

WATERMAINS SHALL BE LAID IN ACCORDANCE WITH THE LOCAL AUTHORITY /IRISH WATER SPECIFICATION FOR THE LAYING OF NEW WATERMAINS AND BYLAWS WHICH OVER—RIDE THESE NOTES. THE CONSTRUCTION OF THE WATERMAIN SHALL BE IN ACCORDANCE WITH THE BEST CURRENT PRACTICE AND THE LATEST EDITIONS OF THE RELEVANT STANDARDS AND CODES OF PRACTICE.

1. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.