

- DEPTH OF REINSTATED TOPSOIL TO MATCH EXISTING

MARKER TAPE REFER TO NOTE 9 FOR DETAILS — PIPE BEDDING REFER TO NOTE 5 FOR DETAILS

<u>_PIPE_DIAMETER</u> – 'A' MINIMUM TRENCH WIDTH – 'B'

PIPE DIAMETER 'A' (mm)	TRENCH WIDTH 'B' (mm)
< 80	SEE NOTE 10
100	500
150	600
200	600
250	750
300	750
350	750
400	900
450	900

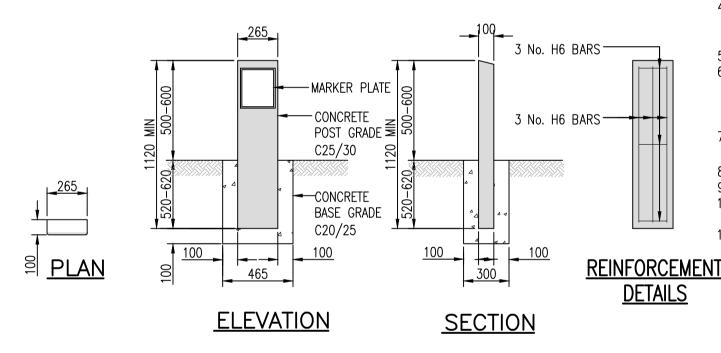
PIPE, DIAMETER A (mm)	DEPTH, OF BEDDING C (mm)
< 200	150
> 250	200

PIPE BEDDING NOTES:

- 1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED (2. THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE THE PIPE IS TO BE LOCATED IN HOUSING ESTATE ROADS. GRE AND/OR A HIGHER CLASS OF BEDDING MATERIAL MAY BE REQ
- THE DESIRABLE COVER FOR A WATERMAIN SHOULD BE 1200m 3. CLAUSE 804/808 MATERIAL IN ACCORDANCE WITH THE NATION TO BE USED AS BACKFILL MATERIAL WHERE THE WATER MAIN NEAREST PART OF THE TRENCH IS WITHIN 1m OF THE PAVED COMPACTED AS PER CLAUSE 802 OF THE NATIONAL ROADS AN IS TO BE USED WITHIN 500mm OF CEMENT BOUNDS MATERAI CONCRETE PRODUCTS. ALTERNATIVE BACKFILL MATERIAL TO TH TRENCH WILL ONLY BE ALLOWED BY IRISH WATER WHERE THE DEVELOPMENT IS LOCATED, PROVIDES WRITTEN APPROVAL TO MATERIAL
- 4. SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIEL SUBJECT TO THE APPROVAL OF IRISH WATER. 5. PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IGN 4
- GRADED AGGREGATE OR 10mm SINGLE SIZED AGGREGATE IS 6. IN SOFT GROUND CONDITIONS (CBR < 5) THE MATERIAL SHOU WITH THE WASTE MANAGEMENT ACT AND CLAUSE 804/808 MA AUTHORITY SPECIFICATION FOR ROAD WORKS SHALL REPLACE WRAPPING. ALTERNATIVELY, SPECIAL PIPE SUPPORT ARRANGEMI THE DEPTH OF SOFT MATERIAL IS EXCESSIVE. SUCH ARRANGE WATER BEFORE ADVANCING WITH THE WORK.
- 7. PIPES SHALL NOT BE SUPPORTED ON STONES, ROCKS OR AN ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW FILLED WITH CLAUSE 804/808 MATERIAL IN ACCORDANCE WITH ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE 8. SHOULD MINIMUM COVER NOT TO BE ACHIEVABLE, CONCRETE
- 9. MARKER TAPE TO BE 400mm WIDE BLUE POLYETHYLENE MATE SHALL HAVE WARNING TAPE INCORPORATED A REINFORCED BAI WIDE MESH TAPE. MARKER TAPE TO BE LAID AT TOP OF PIPE 10. TRENCH WIDTH FOR PIPE SIZE <80mm MAY BE <500mm SUI
- DEPTH, HEALTH & SAFETY, CONSTRUCTION ACCESS REQUIREME 11. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD 12. EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VE PUBLIC ROAD" BY THE DEPT. OF TRANSPORT, TOURISM AND S

REQUIREMENTS.

- 2. PLATES TO BE FIXED IN POSITION US SCREWS.
- 3. MARKER PLATES TO BE MANUFACTURE 4. FOR HYDRANT PLATE ALL CHARACTERS THE FRONT FACE SHOULD CONFORM (CANARY YELLOW) OF BS 381C.
- 5. PIPE DIAMETER ON HYDRANT PLATE T 6. SLUICE VALVE, AIR VALVE, SCOUR VAL CAST ALUMINIUM. ALL CHARACTERS S BACKGROUND. ALTERNATIVE MATERIAL IRISH WATER.
- 7. CONCRETE MARKER POST TO BE GRAD 206/2013.
- 8. CONCRETE BASE TO BE GRADE C20/2 9. PLASTIC MARKER POSTS ARE NOT ACC
- 10. PAINTING SPECIFICATION: 2 PACK EPO) PACK HIGH GLOSS POLYURETHANE TOF
- 11. REFERENCES TO PIPE DIAMETERS ON NOMINAL DIAMETER OF THE PIPE REGA



NOMINAL INTERNAL DIAMETER FIXING HOLE OF WATERMAIN (mm) 30mm HIGH TEXT LOCATIONS SEE NOTE 11 80mm 160mm HIGH TEXT S∖ HIGH TEXT \mathbf{n} \mathbf{O} .6LC DISTANCE OF MARKER FROM HYDRANT 180 180 RIGHT HAND CLOSING 180 180 (2m) – 30mm HIGH TEXT AIR VALVE (NTS)
UISTAINUE OF ST FROM MARKER PLATE (m)
<u>RIGHT HAND CLOSING</u>
(NTS) DISTANCE OF SV -(WHERE APPLICABLE) <u>HYDRANT</u> SLUICE VALVE (NTS) (NTS) (NTS) _100 100 WM HIGH TEXT ScV 2.6

MARKER POST/PLATE DETAILS

180

<u>WATERMAIN</u>

(NTS)

2.6

180

SCOUR VALVE

	This drawing should not be scaled. Dimensions to be verified on site. Any discrepancies should be referred to the Engineer prior to work being put in hand. This drawing is the property of Waterman Moylan Consulting Engineers Limited and is issued on the condition that it is not copied, reproduced, retained or disclosed to any unauthorized person, either wholly or in part without the consent in writing of Waterman Moylan Consulting Engineers Limited Block S East Point Business Park Dublin D03 H3F4 Ireland t+353 1 664 8900
BEDDING NOTES:	NOTES:
INS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE. DEPTH OF COVER FROM THE FINISHED SURFACE TO THE CROWN OF THE PIPE SHALL BE 900mm WHERE TO BE LOCATED IN HOUSING ESTATE ROADS. GREATER DEPTHS OF COVER AND/OR PIPE STRENGHT GHER CLASS OF BEDDING MATERIAL MAY BE REQUIRED WHERE HIGH TRAFFIC LOADING IS ANTICIPATED.	1. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
LE COVER FOR A WATERMAIN SHOULD BE 1200mm, WHERE PRACTICABLE & SHOULD NOT EXCEED 3.0m. (808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS IS AS BACKFILL MATERIAL WHERE THE WATER MAIN IS LOCATED IN ROADS, FOOTPATHS OR WHEN THE	 THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.
T OF THE TRENCH IS WITHIN 1m OF THE PAVED EDGE OF THE ROADWAY. CLAUSE 804/808 IS TO BE IS PER CLAUSE 802 OF THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. CLAUSE 808 ED WITHIN 500mm OF CEMENT BOUNDS MATERAIL, CONCRETE PAVEMENTS, CONCRETE STRUCTURES OR	
DDUCTS. ALTERNATIVE BACKFILL MATERIAL TO THAT DESCRIBED ABOVE (CLAUSE 804/808) OF THE PIPE ONLY BE ALLOWED BY IRISH WATER WHERE THE ROADS AUTHORITY IN WHOSE FUNCTIONAL AREA THE IS LOCATED, PROVIDES WRITTEN APPROVAL TO THE DEVELOPER TO THE USE SUCH ALTERNATIVE	
AVATED MATERIAL MAY BE USED IN GREEN–FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL HE APPROVAL OF IRISH WATER. SHALL COMPLY WITH WIS 4–08–02 AND IGN 4–08–01 GRANULAR MATERIAL SHALL BE 14mm TO 5mm	
EGATE OR 10mm SINGLE SIZED AGGREGATE IS EN 13242. ND CONDITIONS (CBR < 5) THE MATERIAL SHOULD BE EXCAVATED AND DISPOSED OF IN ACCORDANCE TE MANAGEMENT ACT AND CLAUSE 804/808 MATERIAL IN ACCORDANCE WITH THE THE NATIONAL ROADS	
CIFICATION FOR ROAD WORKS SHALL REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE ERNATIVELY, SPECIAL PIPE SUPPORT ARRANGEMENTS, INCLUDING PILING ETC. MAY BE REQUIRED WHERE SOFT MATERIAL IS EXCESSIVE. SUCH ARRANGEMENTS SHALL BE SUBJECT TO ASSESSMENT BY IRISH ADVANCING WITH THE WORK.	
OT BE SUPPORTED ON STONES, ROCKS OR ANY HARD OBJECTS AT ANY POINT ALONG THE TRENCH. E EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID AUSE 804/808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR	
THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL. JM COVER NOT TO BE ACHIEVABLE, CONCRETE GRADE C8/10 SHALL BE USED AS BACKFILL MATERIAL. TO BE 400mm WIDE BLUE POLYETHYLENE MATERIAL IN ACCORDANCE WITH EN 12163, PLASTIC PIPES ARNING TAPE INCORPORATED A REINFORCED BAND BRACING WIRE. SERVICE PIPES SHALL HAVE 200mm	
PE. MARKER TAPE TO BE LAID AT TOP OF PIPE BEDDING LAYER. FOR PIPE SIZE <80mm MAY BE <500mm SUBJECT TO CONSIDERATION BEING GIVEN TO THE TRENCH & SAFETY, CONSTRUCTION ACCESS REQUIREMENTS.	
ISTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MANAGING OPENINGS IN BY THE DEPT. OF TRANSPORT, TOURISM AND SPORT. OR TRANSPORT INFRASTRUCTURE IRELAND	
MARKER PLATES NOTES	
WHERE PRACTICAL MARKER PLATES SHALL BE FIXED TO ADJACENT WALLS OR ALTERNATIVELY ATTACHED TO MARKER POSTS.	
PLATES TO BE FIXED IN POSITION USING WALL PLUGS AND STAINLESS STEEL SCREWS. MARKER PLATES TO BE MANUFACTURED IN ACCORDANCE WITH BS 3251.	
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 AND WASHOUT HYDRANT, ETC. SHOULD BE	
CAST ALUMINIUM. ALL CHARACTERS SHOULD BE BLACK ON WHITE PAINT BACKGROUND. ALTERNATIVE MATERIAL MAY BE USED SUBJECT TO ACCEPTANCE BY IRISH WATER.	
CONCRETE MARKER POST TO BE GRADE C25/30 AND IN ACCORDANCE WITH IS EN 206/2013.	
CONCRETE BASE TO BE GRADE C20/25. PLASTIC MARKER POSTS ARE NOT ACCEPTABLE. PAINTING SPECIFICATION: 2 PACK EPOXY PRIMER 40–60 MICRONS FOLLOWED BY 2	
PACK HIGH GLOSS POLYURETHANE TOP COAT APLLIED AT 40–60 MICRONS. REFERENCES TO PIPE DIAMETERS ON MARKER PLATES REFER SPECIFICALLY TO THE NOMINAL DIAMETER OF THE PIPE REGARDLESS OF PIPE MATERIAL.	
INTERNAL DIAMETER	
RMAIN (mm) 150 E 11 2 4 100 1 100	Rev Date Description By Chk
	Amendments Project
	PROPOSED RESIDENTIAL
APPLICABLE) - (WHERE APPLICABLE) SLUICE VALVE	DEVELOPMENT NEW ROAD, DONABATE
LEFT HAND CLOSING (NTS)	Title
	WATERMAIN CONSTRUCTION DETAILS SHEET 1 OF 4
	Client
	FINGAL COUNTY COUNCIL
	Waterman moylan
	BLOCK S, EASTPOINT BUSINESS PARK, ALFIE BYRNE ROAD, DUBLIN D03 H3F4 IRELAND. Tel: (01) 664 8900
	Email: info@waterman-moylan.ie www.waterman-moylan.ie
	FOR PUBLIC DISPLAY
1:25 0 0.5 1 1.5 2	2.5m Designed By PJD Approved MD Waterman Ref 23-129
	PJD APRIL 2024 1:25
	Project - Originator - Volume - Level - Type - Role - Number Revision