- STRUCTURAL DESIGN AND REINFORCEMENT DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR REVIEW. ROOF SLAB SHALL BE DESIGNED TO CARRY ALL LIVE 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 IS EN 1917 & IS 420.
- CONCRETE FOR FLOW METER CHAMBER TO BE C30/37. 4. PRECAST UNITS COMPLETED WITH RUBBER SEALING GASKET BETWEEN UNITS, COMPLYING WITH THE REQUIREMENTS OF IS EN 1917 AND IS 420, COMPLETE WITH 150mm CONCRETE SURROUND MAY BE USED AS AN ACCEPTABLE ALTERNATIVE. CONCRETE SURROUND
- TO BE GRADE C20/25 IN ACCORDANCE WITH IS EN 206. 5. METER CHAMBER SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL 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. 200mm ALL ROUND, 100mm DEEP CONCRETE PLINTH AROUND COVER IN GRASS AREAS.
- ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES. 8. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. PE PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS
- 9. 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. 10. 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. 11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.

ROOF PLAN

PE TO DI DETAIL

PE STUB FLANGE

WITH BACKING RING

- 12. ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
- 13. NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY REQUIREMENTS. 14. 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. 15. DEVELOPER TO PROVIDE SPOOL PIECE, IRISH WATER TO PROVIDE METER. (SEE TABLE BELOW FOR SPOOL PIECE LENGTHS)

ELECTROMAGNETIC WATER METER SPOOL PIECE LENGTHS										
Ømm	DN50	DN 80	DN100	DN125	DN150	DN200	DN250			
Length mm	200		250		300	350	450			

INTERNAL COVER WALL DIAMETER CHAMBER DIMENSIONS THICKNESS DEPTH 'A' (mm) **DIMENSIONS** 750 x 750 200mm 1200 x 1200 101 - 250 1500 x 1500 900 x 900

FLANGED/PLAIN ENDED PIPE CUT TO SUIT WITH THRUST FLANGE AND THRUST BLOCK

LONG BODY FLEXIBLE COUPLING

DI FLANGED TAPER

CAST-IN RECESSED LIFTING EYES HEAVY DUTY COVER AND FRAME, STAMPED " Me " CLASS D400 TO IS EN 124 (TO SUIT 750 SQ. OPE)

1 Min. TO 3 Max. COURSES OF CLASS B ENGINEERING BRICK SET IN M30 MORTAR TO IS EN 998

CONCRETE ROOF SLAB C30/37 REINFORCED CONCRETE SLAB

SLÙICE VALVE

FLOW - ---

FLOOR PLAN

EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF 'GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS' BY THE DEPT. OF TRANSPORT, TOURISM &

√ FGL

MINIMUM X 10 DIAMETER

LONG BODY

FLOW

FLEXIBLE JOINT

SUMP 400mm x 400mm

x 200mm DEEP

FOR NEW ROAD REINSTATEMENT SEE NOTES 12&13

SPORT (SEE NOTE 14)

DISMANTLING

JOINT

(REFER TO STD-W-14) D.I. FLANGED PLAIN

ENDED PIPE WITH

UNDER SUMP

THRUST FLANGE (CUT TO

THICKENED FLOOR SLAB

SLUICE VALVE

WATER METER DETAIL

300 MIN.

HEAVY DUTY COVER AND FRAME, STAMPED "Me"

VARIES

CLASS D400 (TO SUIT 900 SQ. OPE)

SPOOL PIECE

(WITH PN 16

VARIES

SECTION

VARIES

VARIES

`75mm CONCRETE

BLINDING C12 / 15

FLANGES)

VARIES

CONCRETE CAST

IN-SITU CRADLE

CONCRETE ROOF SLAB C30

/ 37 REINFORCED SLAB

COVER TO BE SET IN

CEMENTITIOUS EPOXY

30N/mm2

ENCAPSULATED.

THRUST FLANGE

RESIN/POLYESTER MORTAR

M30 MORTAR TO IS EN 998

LONG BODY

FLOW

).I. PLAIN ENDED PIPE

WITH THRUST FLANGE

(CUT TO SUIT)

DISMANTLING JOINT

25mm O.D. TAPPING

₩-FLOW-

`THRUST FLANGE

TO BE PROVIDED

FLEXIBLE JOINT .

1 Min. TO 3 Max. COURSES OF CLASS

B SOLID ENGINEERING BRICK SET IN

MANHOLE STEPS TO COMPLY WITH IS EN 13101, TYPE D, CLASS 1,

✓GALVANISED MILD STEEL & PLASTIC

MINIMUM X 5 DIAMETER

SLUICE VALVE

LEVEL INVERT TEE WITH DISMANTLING

OFF-LINE HYDRANT JOINT

(REFER TO STD-W-17)

CABLE DUCT TO KIOSK TO BE INSTALLED

- WITH DRAW CORD (UP TO 20m)

(REFER TO STD-WNMP-36)

DUCT END TO BE SEALED

(REFER TO STD-W-14)

FLANGED/PLAIN ENDED PIPE

CUT TO SUIT WITH THRUST

LONG BODY

SLUICE VALVE

DISMANTLING

JOINT

SLUICE VALVE

FLEXIBLE COUPLING

DI FLANGED

(REFER TO STD-W-14) FLEXIBLE COUPLING

TAPER DETAIL OPTION

(IF REQUIRED)

FLANGED / PLAIN ENDED

PIPE CUT TO SUIT WITH

THRUST FLANGE AND

THRUST BLOCK

FLANGE AND THRUST BLOCK

1:1 0 10 20 30 40 50 60 70 80 90 100

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This drawing should not be scaled. Dimensions to be verified on site.

. DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.

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

PROPOSED RESIDENTIAL DEVELOPMENT NEW ROAD, DONABATE

WATERMAIN CONSTRUCTION DETAILS SHEET 4 OF 4

FINGAL COUNTY COUNCIL



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

Designed By	PJD	MD	Waterman Ref	23-129
Drawn By	PJD	APRIL 2024	Scales @ A1	1:25
Project -	Revision			
NRD				