

- ALL DIMENSIONS IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 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 250mm. 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.
- PRECAST UNITS COMPLETED WITH RUBBER SEALING CASKET 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 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.
- 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
- ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FOUNDATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY IRISH WATER.
- FORWARD FLOW METER CHAMBERS TO BE PROVIDED WITH 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 CONCRETE TO BE IN ACCORDANCE WITH IS EN 206.
- ANY SPECIAL ROAD REINSTATEMENT AROUND COVER & FRAME SHALL BE TO ROAD AUTHORITY'S REQUIREMENTS.
- NEW ROAD CONSTRUCTION & SURFACE FINISH TO BE TO ROAD AUTHORITY'S REQUIREMENTS.
- EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT, TOURISM & DEVELOPER TO PROVIDE SPOOL PIECE, IRISH WATER TO PROVIDE METER. (SEE TABLE BELOW FOR SPOOL PIECE LENGTHS)

ELECTROMAGNETIC WATER METER SPOOL PIECE LENGTHS							
Ø mm	DN50	DN80	DN100	DN125	DN150	DN200	DN250
Length mm	200	250	300	350	400		

METER DIAMETER 'A' (mm)	INTERNAL CHAMBER DIMENSIONS	COVER DIMENSIONS	FLOOR SLAB DEPTH	WALL THICKNESS
50 - 100	1200 x 1200	750 x 750	200mm	200mm
101 - 250	1500 x 1500	900 x 900	250mm	250mm

EXISTING ROAD REINSTATEMENT TO COMPLY WITH CURRENT VERSION OF "GUIDELINES FOR MANAGING OPENINGS IN PUBLIC ROADS" BY THE DEPT. OF TRANSPORT, TOURISM & DEVELOPER TO PROVIDE SPOOL PIECE, IRISH WATER TO PROVIDE METER. (SEE NOTE 14) FOR NEW ROAD REINSTATEMENT SEE NOTES 12&13

HEAVY DUTY COVER AND FRAME, STAMPED "Me" CLASS D400 (TO SUIT 900 SQ. OPE)

COVER TO BE SET IN CEMENTIOUS EPOXY RESIN/POLYESTER MORTAR 300/600

1 Min. TO 3 Max. COURSES OF CLASS B SQUID ENGINEERING BRICK SET IN M20 MORTAR TO IS EN 998

HANDLE STEPS TO COMPLY WITH BS EN 13211 FOR CLASS B GALVANISED MILD STEEL & PLASTIC ENCAPSULATED.

SLICE VALVE (REFER TO STD-W-14)

MINIMUM X 5 DIAMETER

THRUST FLANGE

LONG BODY FLEXIBLE JOINT

ROCKER PIPE

D.I. PLAN ENDED PIPE LEVEL INVERT TEE WITH DISMANTLING OFF-LINE HYDRANT (REFER TO STD-W-17)

THRUST FLANGE (OUT TO SUIT)

LONG BODY FLEXIBLE JOINT

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

DISMANTLING JOINT

CONCRETE CAST IN-SITU GRADE

75mm CONCRETE BLINDING C12 / 15

THICKENED FLOOR SLAB UNDER SUMP

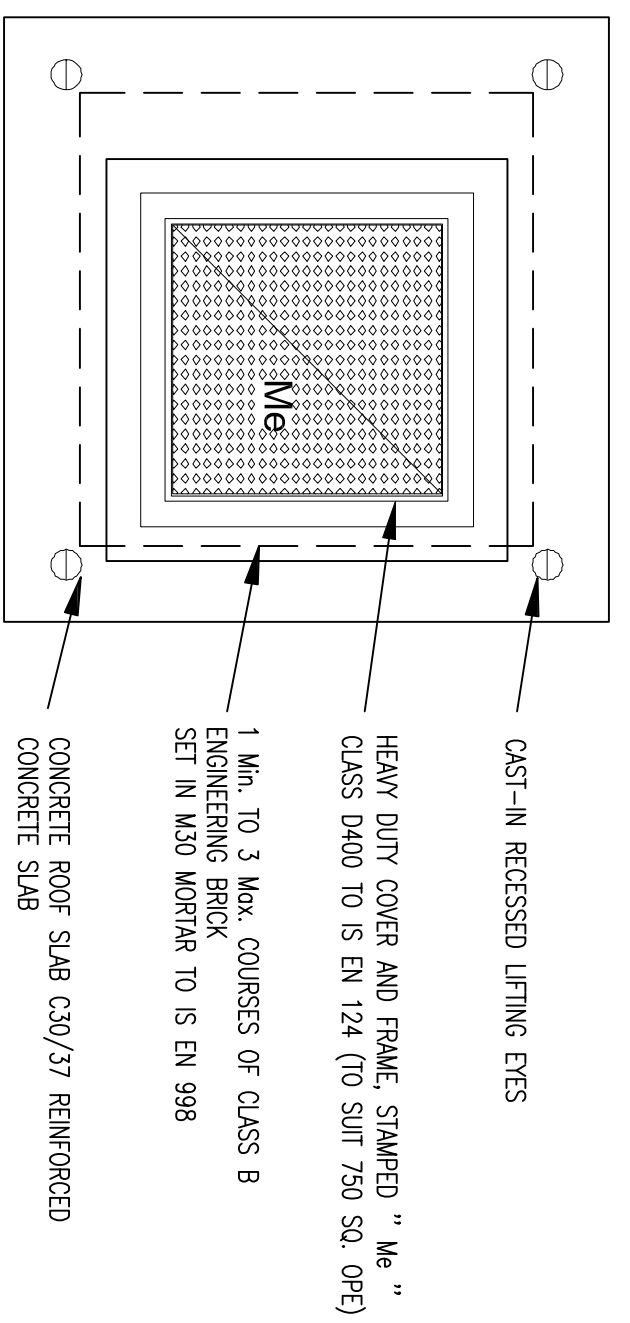
MINIMUM X 10 DIAMETER

CONCRETE ROOF SLAB C30 / 37 REINFORCED SLAB

225

900 MINIMUM

▽ FRL

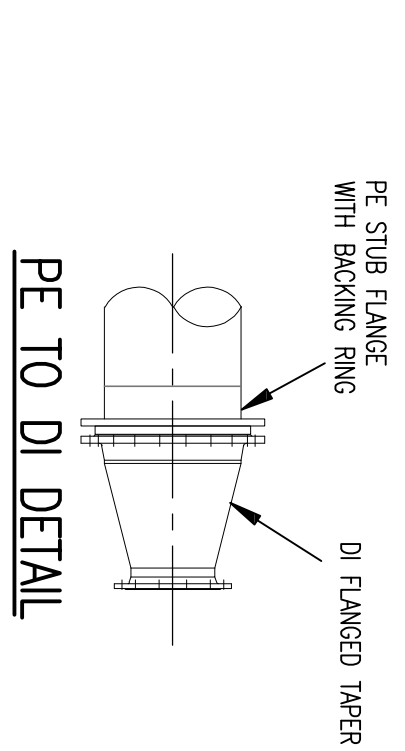


CAST-IN RECESSED LIFTING EYES

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 M20 MORTAR TO IS EN 998

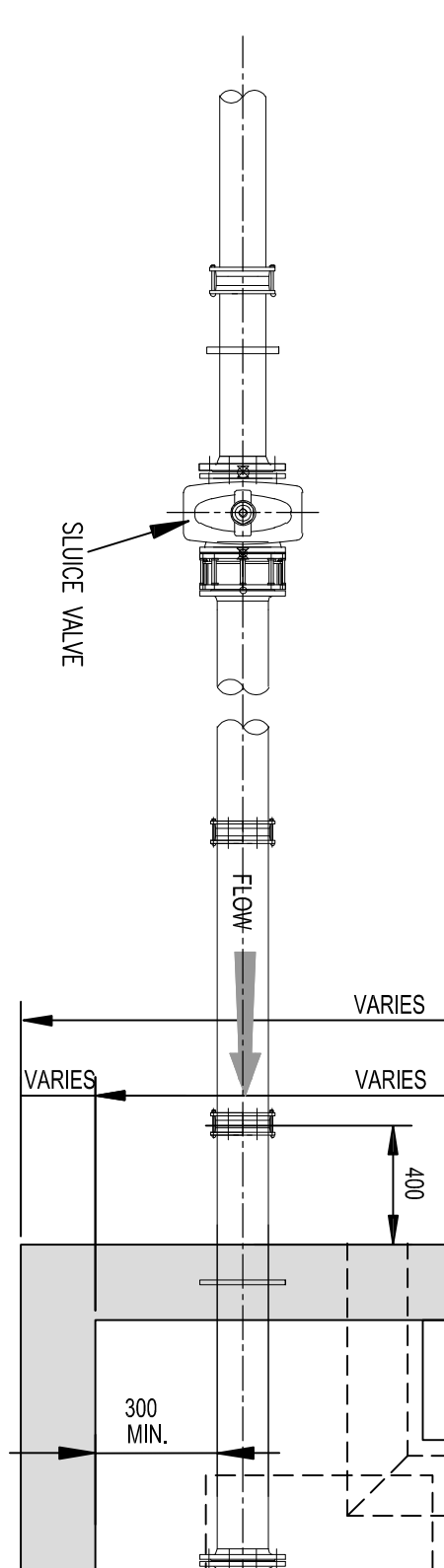
CONCRETE ROOF SLAB C30/37 REINFORCED



PE STUB FLANGE WITH BACKING RINGS

DI FLANGED TAPER

PE TO DI DETAIL



CONCRETE ROOF SLAB C30/37 REINFORCED

HEAVY DUTY COVER AND FRAME, STAMPED "Me" CLASS D400 (TO SUIT 900 SQ. OPE)

COVER TO BE SET IN CEMENTIOUS EPOXY RESIN/POLYESTER MORTAR 300/600

1 Min. TO 3 Max. COURSES OF CLASS B SQUID ENGINEERING BRICK SET IN M20 MORTAR TO IS EN 998

HANDLE STEPS TO COMPLY WITH BS EN 13211 FOR CLASS B GALVANISED MILD STEEL & PLASTIC ENCAPSULATED.

SLICE VALVE (REFER TO STD-W-14)

MINIMUM X 5 DIAMETER

THRUST FLANGE

LONG BODY FLEXIBLE JOINT

ROCKER PIPE

D.I. PLAN ENDED PIPE LEVEL INVERT TEE WITH DISMANTLING OFF-LINE HYDRANT (REFER TO STD-W-17)

THRUST FLANGE (OUT TO SUIT)

LONG BODY FLEXIBLE JOINT

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

DISMANTLING JOINT

CONCRETE CAST IN-SITU GRADE

75mm CONCRETE BLINDING C12 / 15

THICKENED FLOOR SLAB UNDER SUMP

MINIMUM X 10 DIAMETER

CONCRETE ROOF SLAB C30 / 37 REINFORCED SLAB

225

900 MINIMUM

▽ FRL



CONCRETE ROOF SLAB C30/37 REINFORCED

HEAVY DUTY COVER AND FRAME, STAMPED "Me" CLASS D400 (TO SUIT 900 SQ. OPE)

COVER TO BE SET IN CEMENTIOUS EPOXY RESIN/POLYESTER MORTAR 300/600

1 Min. TO 3 Max. COURSES OF CLASS B SQUID ENGINEERING BRICK SET IN M20 MORTAR TO IS EN 998

HANDLE STEPS TO COMPLY WITH BS EN 13211 FOR CLASS B GALVANISED MILD STEEL & PLASTIC ENCAPSULATED.

SLICE VALVE (REFER TO STD-W-14)

MINIMUM X 5 DIAMETER

THRUST FLANGE

LONG BODY FLEXIBLE JOINT

ROCKER PIPE

D.I. PLAN ENDED PIPE LEVEL INVERT TEE WITH DISMANTLING OFF-LINE HYDRANT (REFER TO STD-W-17)

THRUST FLANGE (OUT TO SUIT)

LONG BODY FLEXIBLE JOINT

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

DISMANTLING JOINT

CONCRETE CAST IN-SITU GRADE

75mm CONCRETE BLINDING C12 / 15

THICKENED FLOOR SLAB UNDER SUMP

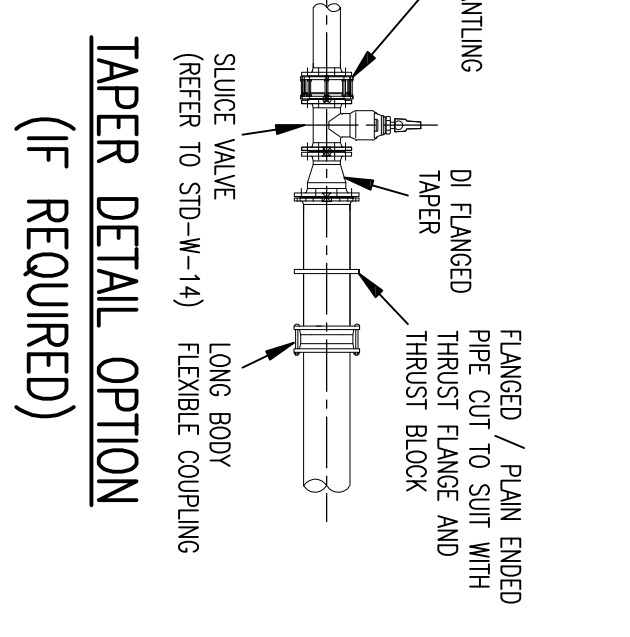
MINIMUM X 10 DIAMETER

CONCRETE ROOF SLAB C30 / 37 REINFORCED SLAB

225

900 MINIMUM

▽ FRL



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

DISMANTLING JOINT

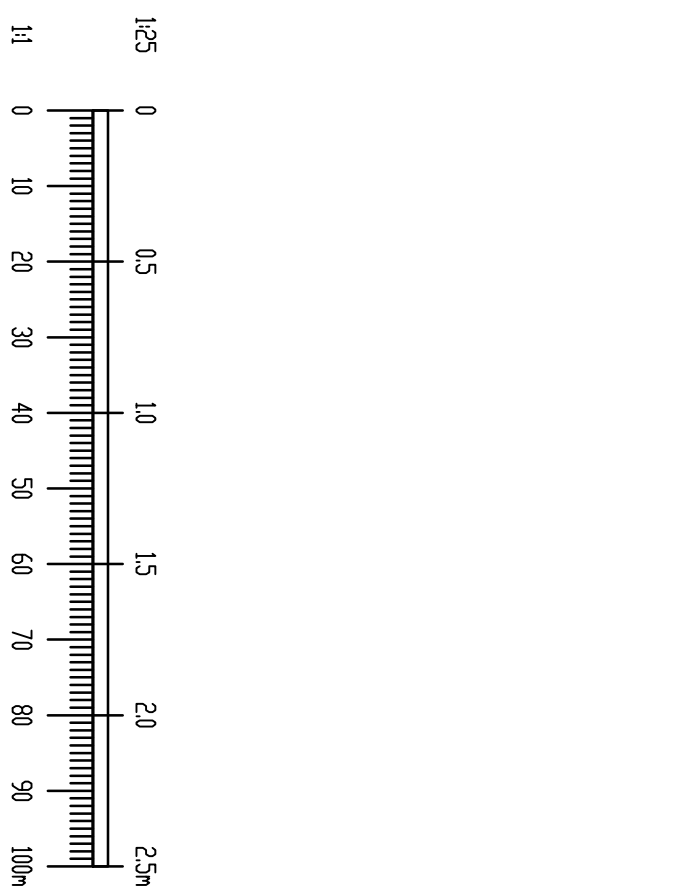
SLICE VALVE (REFER TO STD-W-14)

LONG BODY FLEXIBLE COUPLING

TAPER DETAIL OPTION (IF REQUIRED)

NOTES:

- DO NOT SCALE. USE FIGURED DIMENSIONS ONLY.
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT ARCHITECTURAL AND ENGINEERING DRAWINGS.
- WATERMANS SHALL BE LAD IN ACCORDANCE WITH THE LOCAL AUTHORITY/IRISH WATER SPECIFICATION FOR THE LAYING OF NEW WATERMANS AND BRYMANS WHICH OVER-RIDE THESE NOTES. THE CONSTRUCTION OF THE WATERMANS SHALL BE IN ACCORDANCE WITH THE BEST CURRENT PRACTICE AND THE LATEST EDITIONS OF THE RELEVANT STANDARDS AND CODES OF PRACTICE.
- WATERMANS SHALL NOT BE LAD UNDER WALLS OR ARCS DESIGNED FOR TRESSES/SIDINGS/FLOWERS.
- PRESS SHALL BE LDPE (BLUE PIPE) UNLESS NOTED OTHERWISE BY AGREEMENT WITH THE LOCAL AUTHORITY. DUCTILE IRON PRESS SHALL BE USED UNDER ROADS OF CLASSIFICATION "DISTRICT DISTRIBUTOR" UPWARDS UNLESS NOTED OTHERWISE.
- PRESS SHALL CONFORM TO THE UK WATER INDUSTRY SPECIFICATION OR EQUIVALENT EU SPECIFICATION.
- DUCTILE IRON (DI) PRESS SHALL CONFORM TO IS EN 545 AND SHALL HAVE MINIMUM C40 PRESSURE RATING. DUCTILE IRON FITTINGS SHALL HAVE 16 BAR RATING AT LEAST DI PIPENORK SHALL BE COATED INTERNALLY WITH A BLAST FINISHED CEMENT LINING WHICH COMPRESS WITH THE REQUIREMENTS OF BS 6920. EXTERNAL PROTECTION SHALL INCLUDE AN ALLOY OF ZINC AND ALUMINIUM WITH A MINIMUM 15% ALUMINIUM WITH OR WITHOUT OTHER MATERIALS HAVING A MASS OF 400g/m² COMPLETE WITH A FINISHING LAYER OF BLUE FUSION BONDED EPOXY IN ACCORDANCE WITH IS EN 14901.
- WATERMANS SHALL BE LAD UNDER FOOTPATHS PREFERABLY OR GRASS MARGINS WHERE APPROVED. NO PIPE CONDUIT CABLE OR OTHER SERVICE SHALL BE LAD LONGITUDINALLY OVER THE LINE OF A WATERMAN. NO CABINET POLES, JUNCTION BOXES OR CHAMBERS SHALL BE CONSTRUCTED OVER A WATERMAN.
- THE MINIMUM COVER TO A WATERMAN SHALL BE 750mm. THE MAXIMUM COVER SHALL BE 900mm UNLESS NOTED OTHERWISE.
- 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 LOADED WITH IRISH WATER BEFORE THE WORK IS UNDERTAKEN.
- 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 WEBSITE AT WWW.WATERIE/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.
- IRISH WATER APPROVED BOUNDARY BOXES AND COVERS BS 59 34-2 AND IN ACCORDANCE WITH ALL REQUIREMENTS OF IRISH WATER CODE OF PRACTICE AND IRISH WATER STANDARD DRAWINGS STD-W-03.



REV.	DATE	AMENDMENT	DRN	APPD
A	19/07/21	REMOVED FOR FINAL SUBMISSION	PJD	MD

STATUS **PLANNING**

Waterman Moylan
Engineering Consultants

BLOCK 5, EASTPOINT BUSINESS PARK, ALFIE BRYNE ROAD,
DUBLIN D03 H9F4 IRELAND.
Tel: (01) 604 8800 Fax: (01) 681 3818
Email: info@watermanmoylan.ie www.watermanmoylan.ie

CLIENT **KINWEST LTD.**

ARCHITECT **CONROY CROWE KELLY ARCHITECTS**

PROJECT **ALBURN, MALAHIDE, CO. DUBLIN**

TITLE			
WATERMAN CONSTRUCTION DETAILS			
SHEET 4 OF 4			
DRAWN	DESIGNED	APPROVED	DATE
PJD	MD	MD	APR '20
SCALE	JOB NO.	DRG. NO.	REVISION
1:25 @ A1	19-020	0913	A