- 1 ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 2 THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO THE EXTERNAL CROWN OF THE PIPE SHALL BE 750mm FOR SERVICE CONNECTIONS, 900mm FOR WATER MAINS. 8 SHOULD MINIMUM COVER NOT BE ACHIEVABLE, GREATER DEPTHS OF COVER AND/OR PIPE STRENGTH AND/OR A HIGHER CLASS OF BEDDING MATERIAL MAY BE REQUIRED WHERE HIGH TRAFFIC LOADING IS ANTICIPATED. THE
- MAXIMUM COVER SHOULD NOT EXCEED 1.2M WHERE PRACTICABLE. 3 CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL WHERE THE
- TO BE LAID AT TOP OF PIPE BEDDING LAYER. 10 TRENCH WIDTHS FOR PIPE SIZES ≤80mm WATER MAIN IS LOCATED IN ROADS, FOOTPATHS OR WHEN THE NEAREST PART OF MAY BE <500mm, SUBJECT TO CONSIDERATION THE TRENCH IS WITHIN 1M OF THE PAVED & SAFETY & CONSTRUCTION ACCESS EDGE OF THE ROADWAY, CLAUSE 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE TRANSPORT INFRASTRUCTURE IRELAND
- SPECIFICATION FOR ROAD WORKS. 4 SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUND MATERIAL SUBJECT TO THE APPROVAL OF IRISH WATER.
- 5 PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IGN 4-08-01 GRANULAR MATERIAL SHALL BE 14mm TO 5mm GRADED AGGREGATE OR 10mm SINGLE SIZED AGGREGATE IS EN 13242.
- 6 IN SOFT GROUND CONDITIONS (CBR < 5) THE MATERIAL SHOULD BE EXCAVATED OUT AND DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUSE 808 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS SHALL REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE WRAPPING, ALTERNATIVELY, SPECIAL PIPE SUPPORT ARRANGEMENTS, INCLUDING PILING ETC. MAY BE REQUIRED WHERE THE DEPTH OF SOFT MATERIAL IS EXCESSIVE. SUCH ARRANGEMENTS SHALL BE SUBJECT TO ASSESSMENT BY IRISH WATER
- 7 PIPES SHALL NOT BE SUPPORTED ON STONES OR ROCKS, OR ANY HARD OBJECT AT ANY POINT ALONG THE TRENCH. ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW

BEFORE ADVANCING WITH THE WORK.

THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUSE 804 MATERIAL IN ACCORDANCE WITH THE TRANSPORT INFRASTRUCTURE IRELAND SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL

SHALL BE LAID ABOVE THIS VOID BACKFILL

CONCRETE GRADE C8/10 SHALL BE USED AS

9 MARKER TAPE TO BE 400mm WIDE BLUE

POLYETHYLENE MATERIAL IN ACCORDANCE

WITH EN 12163, PLASTIC PIPES SHALL HAVE

WARNING TAPE INCORPORATED A REINFORCED

HAVE 200mm WIDE MESH TAPE. MARKER TAPE

BEING GIVEN TO THE TRENCH DEPTH, HEALTH

DEPTH OF BEDDING

'C' (mm)

150

200

TRENCH WIDTH

'B' (mm)

< SEE NOTE 10.

500

600

600

750

750

750

900

BAND BRACING WIRE. SERVICE PIPES SHALL

MATERIAL.

BACKFILL MATERIAL.

REQUIREMENTS.

PIPE DIAMETER

'A' (mm)

< 200

> 250

PIPE DIAMETER

'A' (mm)

100

150

200

250

300

350

400

- 2. STRUCTURAL DESIGN AND REINFORCEMENT DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR REVIEW.
- BE C30/37

 - SURROUND) MAY BE USED SUBJECT TO IRISH ACCORDANCE WITH IS EN545. PE PIPES AND SHALL BE PROVIDED WITH APPROPRIATE 12201: 2011.
- SHALL BE SUITABLE FOR ROAD AND TRAFFIC CONDITIONS WITHIN THE SITE. SHOULD ANTI CONDITIONS AND IS SUBJECT TO THE FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO APPROVAL FROM APPROVAL OF IRISH WATER 10. PIPEWORK TO BE DOWNSIZED TO
- - UPSTREAM AND DOWNSTREAM OF THE METER TO BE PROVIDED. IF THE METER IS NOT CAPABLE OF ACCURATE NIGHT FLOW MEASUREMENTS, A BY-PASS FLOW METER VALVES, FITTINGS AND PIPEWORK.

BY THE DEVELOPER BASED ON GROUND

75mm CONCRETE

BLINDING C12/15

DETAIL AS PER INLET

TO BE PROVIDED

10xPIPEØ MIN. FROM FLOW METER TO DISMANTLING JOINT (ENTRY)

5xPIPEØ MIN. FROM FLOW METER TO DISMANTLING JOINT (EXITING)

FLOOR PLAN

PRESSURE TAPPING DUCT TO KIOSK TO BE

INSTALLED WITH DRAW CORD(REFER TO-

STD-W-36) DUCT END TO BE SEALED

THRUST FLANGE -

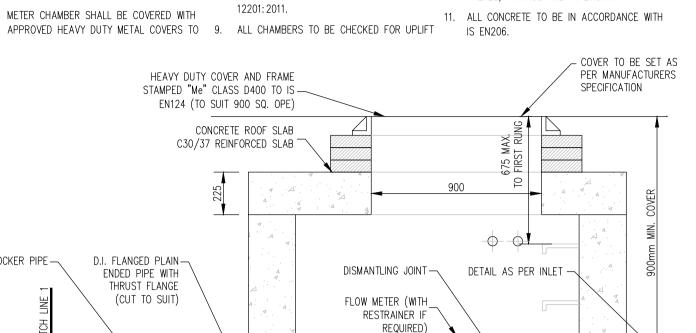
CABLE DUCT TO KIOSK TO BE INSTALLED

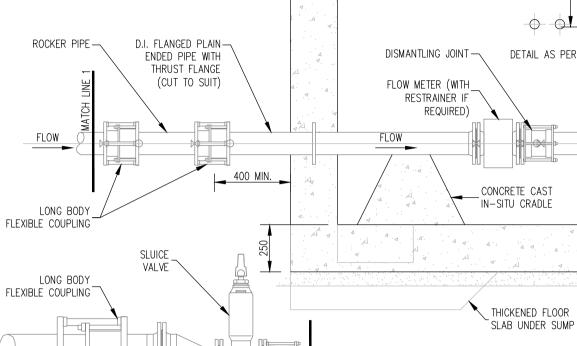
∕WITH DRAW CORD (REFER TO STD-W-36)

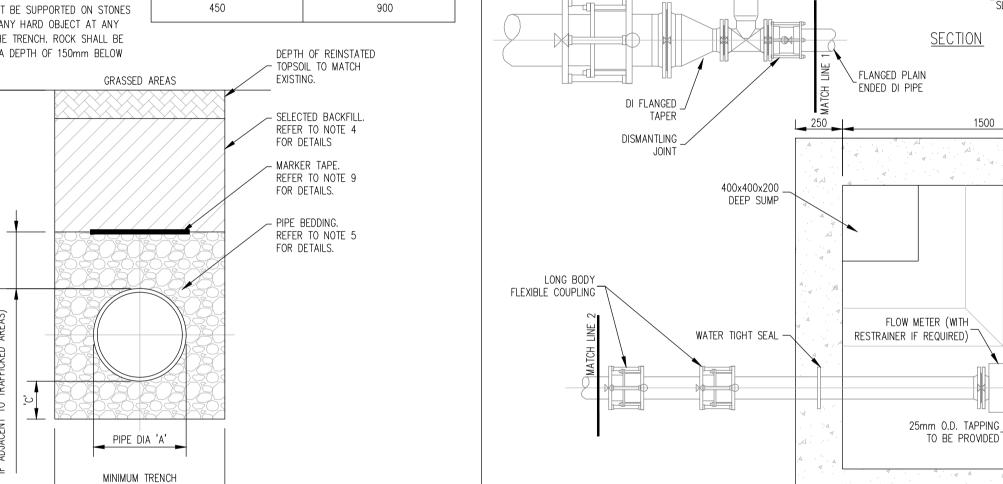
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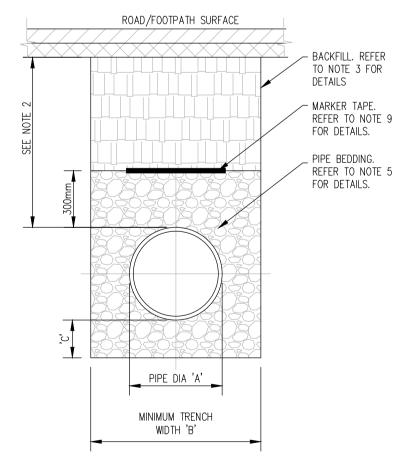
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DUCT END TO BE SEALED









WIDTH 'B'

CROSS SECTION IN GRASSED AREAS

CROSS SECTION IN ROADS

TRENCH BACKFILL AND BEDDING (STD - W - 13)SCALE 1:20

IS EN124 RATING D400. COVER AND FRAME NOTES: ALL DIMENSIONS ARE IN MILLIMETRES (mm)

- UNLESS NOTED OTHERWISE.
- 4. PRECAST METER CHAMBER(WITH CONCRETE 8. DUCTILE IRON PIPES AND FITTINGS TO BE IN WATER APPROVAL.
- 5. METER CHAMBER SHALL BE COVERED WITH
- 6. 200mm ALL ROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STAINLESS STEEL METAL BAND AROUND
- COVER IN GRASS AREAS. 3. CONCRETE FOR FLOW METER CHAMBER TO 7. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
 - FITTINGS TO BE IN ACCORDANCE WITH IS EN
- COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 OR BS 5834. ACCOMMODATE THE REQUIRED RANGE OF THE FLOW METER. STRAIGHT PIPE LENGTHS ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH

NOTES:

3. SLUICE VALVES SHALL BE RESILIENT SEATED AND SHALL COMPLY WITH BS 5163-1, BS 10. ANTICORROSION TAPE TO BE PROVIDED 5163-2, IS EN 1074-1, IS EN 1074-2, OR AROUND BURIED FLANGES. EQUIVALENT EU SPECIFICATIONS.

(mm) UNLESS NOTED OTHERWISE.

2. SLUICE VALVE CHAMBERS SHALL BE

- 4. ALL SLUICE VALVES SHALL BE ANTI-CLOCKWISE CLOSING.
- 5. VALVE CHAMBER TO BE CONSTRUCTED OF PRECAST CONCRETE UNITS OR HIGH DENSITY BLOCKWORK. ALTERNATIVELY PROPRIETARY PREFABRICATED CHAMBER UNITS MAY ALSO BE USED SUBJECT TO APPROVAL FROM IRISH WATER.
- 6. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER STD-W-13.

GROUND

CLASS B ENGINEERING BRICK

SET IN C50/60 MORTAR

CONCRETE ROOF SLAB

CONCRETE BASE C25/30

LONG BODY —

CUT TO SUIT

FLEXIBLE COUPLING

FLANGED SLUICE VALVE -

HEAVY DUTY COVER AND-

FRAME, STAMPED 'SV' CLASS

D400 (TO SUIT 445x280 OPE)

C30/37 REINFORCED SLAB

- 7. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. 1. 1 ALL DIMENSIONS ARE IN MILLIMETRES
 - 8. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STEEL METAL BAND AROUND COVER IN GREEN
- COVER AND FRAME SHALL BE SUITABLE FOR 9. THRUST BLOCKS(NOT SHOWN ON DRAWING) TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES AND BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.

 - 11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206
 - 12. ALL THRUST FLANGES TO BE ADEQUATELY RESTRAINED BY THRUST BLOCKS AS PER DRAWING No. STD-W-28. THRUST BLOCKS NOT SHOWN FOR CLARITY

- NOTES:
- 1. 1 ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 2. HYDRANT CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 OR BS 5834. COVER AND TRAFFIC CONDITIONS AND IS SUBJECT
- TO THE APPROVAL OF IRISH WATER 3. ALL HYDRANTS, SURFACE BOX FRAMES AND COVERS SHALL COMPLY WITH THE RELEVANT PROVISIONS OF IS EN 14339, IS
- EN 1074-6 & BS 750. FIRE HYDRANTS SHALL BE TYPE 2. THE HYDRANT INLET SHALL BE 80mm DIAMETER WITH PN16.

PRECAST CONCRETE UNITS OR HIGH

DENSITY BLOCKWORK. ALTERNATIVELY

PROPRIETARY PREFABRICATED CHAMBER

UNITS MAY ALSO BE USED SUBJECT TO

GROUND

CLASS B ENGINEERING BRICK

SET IN C50/60 MORTAR

C30/37 REINFORCED SLAB

LENGTH TO SUIT CONDITIONS

CONCRETE ROOF SLAB

RISER PIPE OF SUITABLE

CONCRETE BASE C25/30

HEAVY DUTY COVER-

AND FRAME, STAMPED

'FH' CLASS D400 (TO

SUIT 445x280 OPE)

DI DOUBLE FLANGED DN80. 50

APPROVAL FROM IRISH WATER.

- 4. ALL HYDRANTS SHALL BE CLOCKWISE

STAINLESS STEEL

COVER TO MANUFACTURERS

SPECIFICATION

— EXTENSION SPINDLE

UNITS (REFER TO NOTE 5)

- REFER TO STD-W-13

FOR BEDDING DETAILS

CONCRETE SUPPORT

75mm HIGH

CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

PRECAST CONCRETE UNITS

(REFER TO NOTE 5)

LETTERING

PRECAST CONCRETE

METAL BAND

PLINTH IN GRASSED AREAS

<u>SECTION</u>

ROOF PLAN

FLOOR PLAN

(PRECAST CONCRETE CONSTRUCTION)

SLUICE VALVE CHAMBER

(STD - W - 14)

SCALE 1:20

6. CONCRETE CHAMBERS SHALL BE SURROUNDED BY A MINIMUM OF 150mm COMPACTED CLAUSE 808 MATERIAL AS PER STD-W-13.

PLINTH IN GRASSED AREAS

<u>SECTION</u>

ROOF PLAN

FLOOR PLAN

(PRECAST CONCRETE CONSTRUCTION)

FIRE HYDRANT CHAMBER

(STD - W - 16)

- 7. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545. AND FRAME SHALL BE SUITABLE FOR ROAD 8. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STEEL
 - METAL BAND AROUND COVER IN GREEN THRUST BLOCKS(NOT SHOWN ON DRAWING) TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES AND
 - STEEP SLOPES. 10. ANTICORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
- 5. VALVE CHAMBER TO BE CONSTRUCTED OF 11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206

STAINLESS STEEL

METAL BAND

COVER TO

MANUFACTURERS

PRECAST CONCRETE

- REFER TO STD-W-13

FOR BEDDING DETAILS

- DUCTILE IRON

TEE WITH FLANGED

CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

PRECAST CONCRETE UNITS

(REFER TO NOTE 5)

SOCKETED

UNITS (REFER TO NOTE 5)

SPECIFICATION

WATER 3. AIR VALVES SHALL COMPLY WITH THE REQUIREMENTS OF IS EN 1074-4. AIR VALVES SHALL BE DOUBLE ORIFICE TYPE BENDS, TAPERS, DEAD ENDS AND PIPES AT AND SHALL INCLUDE AN ISOLATING VALVE. THE ISOLATING VALVE SHALL BE A GATE VALVE CONFORMING TO IS EN 1074-2 AND SHALL BE OF A BOLTLESS BONNET DESIGN

NOTES:

4. THE AIR VALVES SHALL OF BODIES AND COVERS OF CAST IRON TO BS EN 1563 WITH FLANGES DRILLED TO PN 16 IN ACCORDANCE WITH BS EN 1092. EACH VALVE SHALL HAVE A LARGE AND A SMALL AIR ESCAPE ORIFICE WITH AN ISOLATING 12. THE LOCATION OF THE AIR VALVE SHALL BE VALVE.

1. 1 ALL DIMENSIONS ARE IN MILLIMETRES

(mm) UNLESS NOTED OTHERWISE.

2. AIR VALVE CHAMBERS SHALL BE COVERED

WITH APPROVED VENTILATED HEAVY DUTY

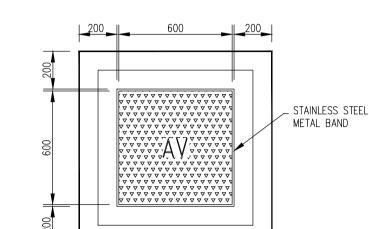
ROAD AND TRAFFIC CONDITIONS AND IS

SUBJECT TO THE APPROVAL OF IRISH

METAL COVERS TO IS EN 124 RATING D400.

COVER AND FRAME SHALL BE SUITABLE FOR

- 5. SERVICE CONNECTIONS SHALL NOT BE PROVIDED WITHIN 2m OF THE AIR VALVE LOCATION
- 6. AIR VALVE CHAMBERS TO BE OF PRECAST CONCRETE UNITS OR HIGH DENSITY



BLOCKWORK. ALTERNATIVE PROPRIETARY

BE USED. SUBJECT TO APPROVAL FROM

PRECAST CONCRETE CHAMBERS SHALL BE

SURROUNDED BY A MINIMUM OF 150mm

8. DUCTILE IRON PIPES AND FITTINGS TO BE IN

CONCRETE PLINTH WITH PROTECTIVE STEEL

METAL BAND AROUND COVER IN GREEN

10. THRUST BLOCKS(NOT SHOWN ON DRAWING)

TO BE PROVIDED AS PER STANDARD

11. ANTICORROSION TAPE TO BE PROVIDED

AROUND BURIED FLANGES.

VALVE IS ELIMINATED;.

IS EN 206

DRAWING STD-W-28 AT ALL TEES AND

BENDS, TAPERS, DEAD ENDS AND PIPES AT

THE SUBJECT OF PARTICULAR AGREEMENT

WITH IRISH WATER TO ENSURE THAT THE

RISK OF CONTAMINATION THROUGH THE

13. ALL CONCRETE TO BE IN ACCORDANCE WITH

ACCORDANCE WITH IS EN 545.

9. 200mm ALL AROUND, 100mm DEEP

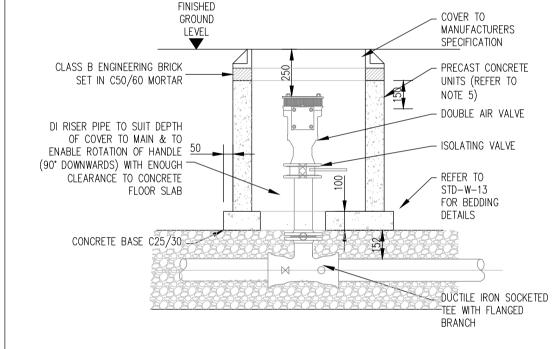
STEEP SLOPES.

COMPACTED CLAUSE 808 MATERIAL AS PER

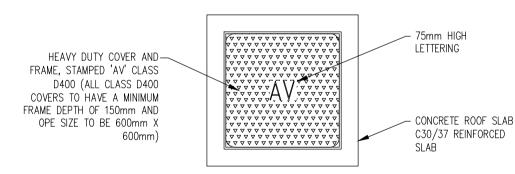
IRISH WATER.

PREFABRICATED CHAMBER UNITS MAY ALSO

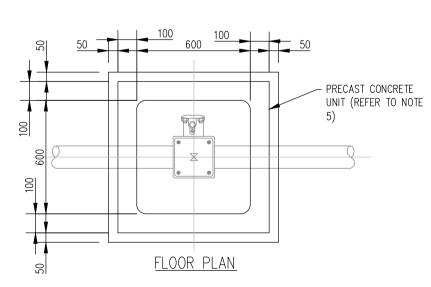
PLINTH IN GRASSED AREAS



<u>SECTION</u>



ROOF PLAN



AIR VALVE CHAMBER

(PRECAST CONCRETE CONSTRUCTION) <u>(STD - W - 20)</u> SCALE 1:20

PLANNING DRAWING

METER CHAMBER (<300mmø)

(STD - W - 26)

SCALE 1:20

CAST IN RECESSED LIFTING

HEAVY DUTY COVER AND FRAME _ STAMPED "Me" CLASS D400 TO IS EN124 (TO SUIT 900 SQ. OPE) 1No. MIN. OR 3No. COURSES MAX. OF CLASS B

ENGINEERING BRICKWORK SET IN C50/60 MORTAR

CONCRETE ROOF SLAB

C30/37 REINFORCED CONCRETE SLAB

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- NOTES
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ROOF PLAN

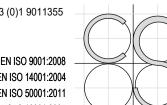
ISSUED FOR PLANNING STAGE 3 03.03.2022 DD OS Nov 2020 PJC RFM OS

JFOC Architects Edmondstown Lands Typical Watermain Details

EDM-CSC-GF-XX-DR-C-0019

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