NOTES:

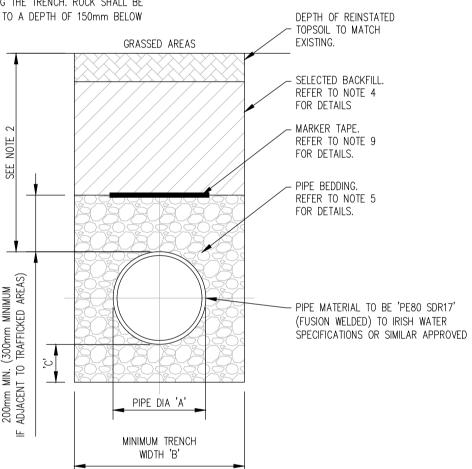
- 1 ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.
- 2 THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO THE EXTERNAL CROWN OF THE PIPE SHALL BE 750mm FOR SERVICE CONNECTIONS, 900mm FOR WATER MAINS. GREATER DEPTHS OF COVER AND/OR PIPE STRENGTH AND/OR A HIGHER CLASS OF BEDDING MATERIAL 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 WATER MAIN IS LOCATED IN ROADS,
- THE TRENCH IS WITHIN 1M OF THE PAVED 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

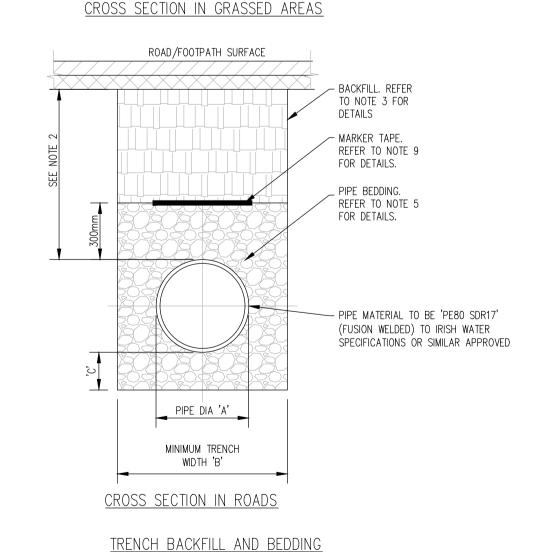
BEFORE ADVANCING WITH THE WORK.

- 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
- 8 SHOULD MINIMUM COVER NOT BE ACHIEVABLE, CONCRETE GRADE C8/10 SHALL BE USED AS BACKFILL MATERIAL.
- 9 MARKER TAPE TO BE 400mm WIDE BLUE POLYETHYLENE MATERIAL IN ACCORDANCE WITH EN 12163, PLASTIC PIPES SHALL HAVE WARNING TAPE INCORPORATED A REINFORCED BAND BRACING WIRE. SERVICE PIPES SHALL HAVE 200mm WIDE MESH TAPE. MARKER TAPE
- 10 TRENCH WIDTHS FOR PIPE SIZES ≤80mm FOOTPATHS OR WHEN THE NEAREST PART OF MAY BE <500mm, SUBJECT TO CONSIDERATION BEING GIVEN TO THE TRENCH DEPTH, HEALTH & SAFETY & CONSTRUCTION ACCESS REQUIREMENTS.

TO BE LAID AT TOP OF PIPE BEDDING LAYER.

NEGOTIVEMENTS.	
PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C' (mm)
< 200	150
> 250	200
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





(STD - W - 13)

SCALE 1:20

1. ALL DIMENSIONS ARE IN MILLIMETRES (mm) UNLESS NOTED OTHERWISE.

NOTES:

- 2. STRUCTURAL DESIGN AND REINFORCEMENT DETAIL TO BE PROVIDED BY THE DEVELOPER AND SUBMITTED TO IRISH WATER FOR RFVIFW.
- BE C30/37 4. PRECAST METER CHAMBER(WITH CONCRETE 8. DUCTILE IRON PIPES AND FITTINGS TO BE IN
- WATER APPROVAL. 12201: 2011. 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.

SHALL BE SUITABLE FOR ROAD AND TRAFFIC

CONDITIONS AND IS SUBJECT TO THE

APPROVAL OF IRISH WATER.

- 3. CONCRETE FOR FLOW METER CHAMBER TO 7. ANTI CORROSION TAPE TO BE PROVIDED AROUND BURIED FLANGES.
- 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. IF THE METER IS NOT CAPABLE OF ACCURATE NIGHT FLOW

IRISH WATER.

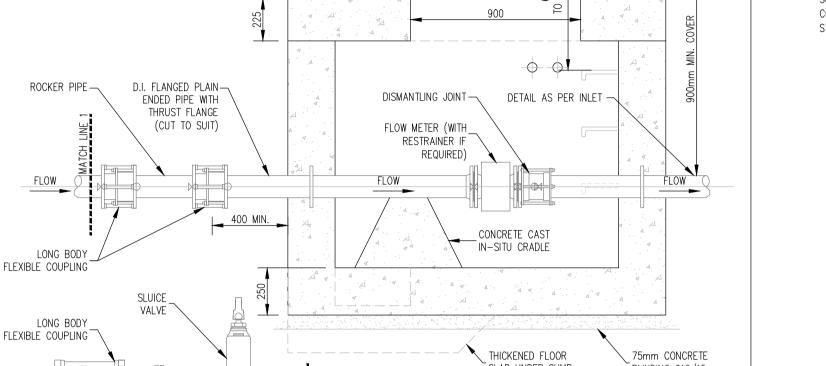
CONDITIONS WITHIN THE SITE. SHOULD ANTI

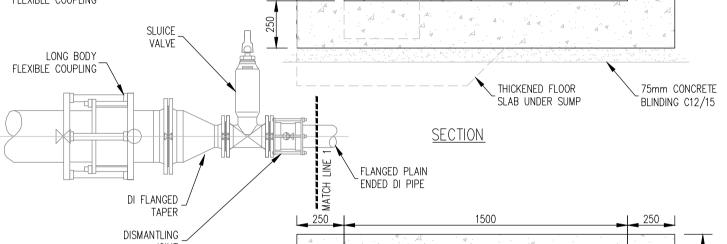
SHALL BE SUBJECT TO APPROVAL FROM

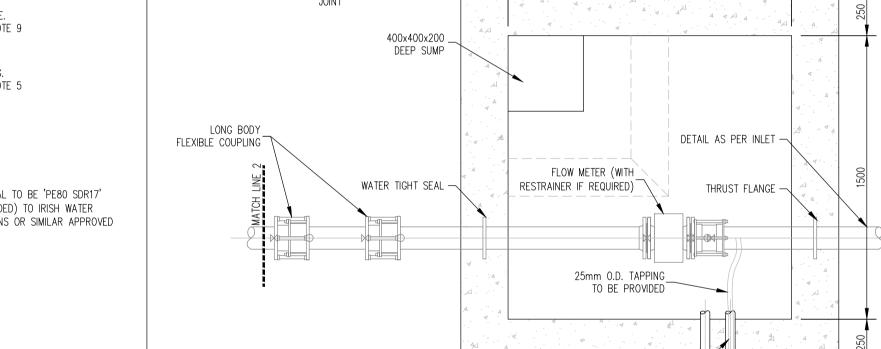
FLOATATION MEASURES BE REQUIRED THEY

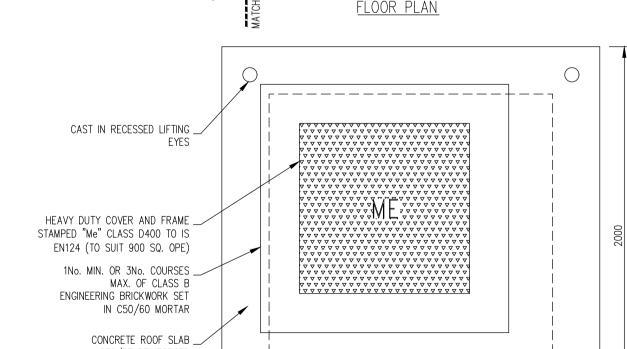
- MEASUREMENTS, A BY-PASS FLOW METER
- 11. ALL CONCRETE TO BE IN ACCORDANCE WITH
- SURROUND) MAY BE USED SUBJECT TO IRISH ACCORDANCE WITH IS EN545. PE PIPES AND SHALL BE PROVIDED WITH APPROPRIATE FITTINGS TO BE IN ACCORDANCE WITH IS EN VALVES, FITTINGS AND PIPEWORK. APPROVED HEAVY DUTY METAL COVERS TO 9. ALL CHAMBERS TO BE CHECKED FOR UPLIFT IS EN206. - COVER TO BE SET AS PER MANUFACTURERS HEAVY DUTY COVER AND FRAME SPECIFICATION STAMPED "Me" CLASS D400 TO IS — EN124 (TO SUIT 900 SQ. OPE) CONCRETE ROOF SLAB C30/37 REINFORCED SLAB

IS EN124 RATING D400. COVER AND FRAME BY THE DEVELOPER BASED ON GROUND









PRESSURE TAPPING DUCT TO KIOSK TO BE

INSTALLED WITH DRAW CORD(REFER TO-

STD-W-36) DUCT END TO BE SEALED

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

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

C30/37 REINFORCED CONCRETE SLAB METER CHAMBER (<300mmø) (STD - W - 26)

NOTES: 1. 1 ALL DIMENSIONS ARE IN MILLIMETRES

- (mm) UNLESS NOTED OTHERWISE.
- 2. SLUICE VALVE CHAMBERS SHALL BE COVERED WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 OR BS 5834. ROAD AND TRAFFIC CONDITIONS AND IS SUBJECT TO THE APPROVAL OF IRISH
- WATER
- EQUIVALENT EU SPECIFICATIONS. 4. ALL SLUICE VALVES SHALL BE
 - 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

C30/37 REINFORCED SLAB

CONCRETE ROOF SLAB

CONCRETE BASE C25/30 -

LONG BODY —

FLEXIBLE COUPLING

FLANGED SLUICE VALVE -

HEAVY DUTY COVER AND-

FRAME, STAMPED 'SV' CLASS

D400 (TO SUIT 445x280 OPE)

✓ WITH DRAW CORD (REFER TO STD-W-36)

DUCT END TO BE SEALED

CUT TO SUIT

FLANGED/PLAIN ENDED PIPE -

7. DUCTILE IRON PIPES AND FITTINGS TO BE IN ACCORDANCE WITH IS EN 545.

IS EN 206

PLINTH IN GRASSED AREAS

SECTION

ROOF PLAN

FLOOR PLAN

(PRECAST CONCRETE CONSTRUCTION)

SLUICE VALVE CHAMBER

(STD - W - 14)

SCALE 1:20

12. ALL THRUST FLANGES TO BE ADEQUATELY

NOT SHOWN FOR CLARITY

RESTRAINED BY THRUST BLOCKS AS PER

DRAWING No. STD-W-28. THRUST BLOCKS

- STAINLESS STEEL

COVER TO MANUFACTURERS

UNITS (REFER TO NOTE 5)

- REFER TO STD-W-13

DISMANTLING JOINT

75mm HIGH

- CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

- PRECAST CONCRETE UNITS

(REFER TO NOTE 5)

LETTERING

- CONCRETE SUPPORT

FOR BEDDING DETAILS

EXTENSION SPINDLE

PRECAST CONCRETE

METAL BAND

- COVER AND FRAME SHALL BE SUITABLE FOR 9. THRUST BLOCKS(NOT SHOWN ON DRAWING)
- STEEP SLOPES. 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. 11. ALL CONCRETE TO BE IN ACCORDANCE WITH
- ANTI-CLOCKWISE CLOSING.

- NOTES: 1. 1 ALL DIMENSIONS ARE IN MILLIMETRES 8. 200mm ALL AROUND, 100mm DEEP (mm) UNLESS NOTED OTHERWISE.
- CONCRETE PLINTH WITH PROTECTIVE STEEL 2. HYDRANT CHAMBERS SHALL BE COVERED METAL BAND AROUND COVER IN GREEN WITH APPROVED HEAVY DUTY METAL COVERS TO IS 261 OR BS 5834. COVER TO BE PROVIDED AS PER STANDARD AND TRAFFIC CONDITIONS AND IS SUBJECT DRAWING STD-W-28 AT ALL TEES AND
- TO THE APPROVAL OF IRISH WATER BENDS, TAPERS, DEAD ENDS AND PIPES AT 3. ALL HYDRANTS, SURFACE BOX FRAMES AND COVERS SHALL COMPLY WITH THE EN 1074-6 & BS 750. FIRE HYDRANTS
 - SHALL BE TYPE 2. THE HYDRANT INLET SHALL BE 80mm DIAMETER WITH PN16.
 - 4. ALL HYDRANTS SHALL BE CLOCKWISE CLOSING.
 - 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
- ACCORDANCE WITH IS EN 545. AND FRAME SHALL BE SUITABLE FOR ROAD 8. 200mm ALL AROUND, 100mm DEEP CONCRETE PLINTH WITH PROTECTIVE STEEL
- 9. THRUST BLOCKS(NOT SHOWN ON DRAWING) RELEVANT PROVISIONS OF IS EN 14339, IS TO BE PROVIDED AS PER STANDARD DRAWING STD-W-28 AT ALL TEES AND
 - BENDS, TAPERS, DEAD ENDS AND PIPES AT STEEP SLOPES.
 - AROUND BURIED FLANGES.
- COMPACTED CLAUSE 808 MATERIAL AS PER STD-W-13. 7. DUCTILE IRON PIPES AND FITTINGS TO BE IN
- - METAL BAND AROUND COVER IN GREEN

STAINLESS STEEL

METAL BAND

COVER TO

MANUFACTURERS

PRECAST CONCRETE

- REFER TO STD-W-13

SOCKETED

BRANCH

TEE WITH FLANGED

CONCRETE ROOF SLAB

C30/37 REINFORCED SLAB

- PRECAST CONCRETE UNITS

(REFER TO NOTE 5)

FOR BEDDING DETAILS

SPECIFICATION

- 10. ANTICORROSION TAPE TO BE PROVIDED
- 5. VALVE CHAMBER TO BE CONSTRUCTED OF 11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206

PLINTH IN GRASSED AREAS

FINISHED

GROUND

ROOF PLAN

FLOOR PLAN

(PRECAST CONCRETE CONSTRUCTION)

FIRE HYDRANT CHAMBER

(STD - W - 16) SCALE 1: 20

CLASS B ENGINEERING BRICK

SET IN C50/60 MORTAR

CONCRETE ROOF SLAB

DI DOUBLE FLANGED DN80, DU

CONCRETE BASE C25/30

HEAVY DUTY COVER-

SUIT 445x280 OPE)

AND FRAME, STAMPED

'FH' CLASS D400 (TO

C30/37 REINFORCED SLAB

RISER PIPE OF SUITABLE

LENGTH TO SUIT CONDITIONS

VALVE. 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

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

REQUIREMENTS OF IS EN 1074-4. AIR

VALVES SHALL BE DOUBLE ORIFICE TYPE

THE ISOLATING VALVE SHALL BE A GATE

VALVE CONFORMING TO IS EN 1074-2 AND

SHALL BE OF A BOLTLESS BONNET DESIGN

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

AND SHALL INCLUDE AN ISOLATING VALVE.

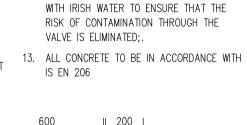
3. AIR VALVES SHALL COMPLY WITH THE

METAL COVERS TO IS EN 124 RATING D400.

COVER AND FRAME SHALL BE SUITABLE FOR

NOTES:

AIR ESCAPE ORIFICE WITH AN ISOLATING 12. THE LOCATION OF THE AIR VALVE SHALL BE



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.

DRAWING STD-W-28 AT ALL TEES AND

BENDS, TAPERS, DEAD ENDS AND PIPES AT

THE SUBJECT OF PARTICULAR AGREEMENT

ACCORDANCE WITH IS EN 545.

9. 200mm ALL AROUND, 100mm DEEP

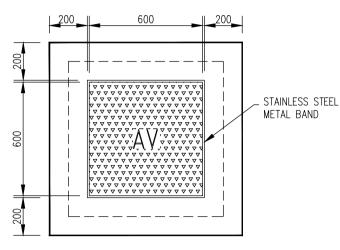
COMPACTED CLAUSE 808 MATERIAL AS PER

IRISH WATER.

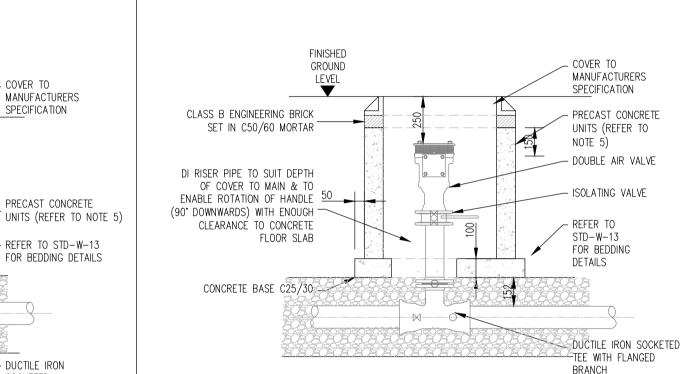
STD-WW-13.

STEEP SLOPES.

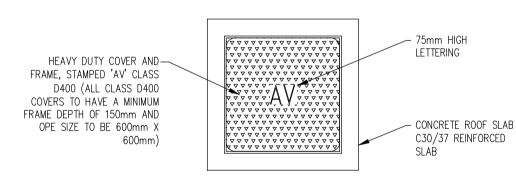
PREFABRICATED CHAMBER UNITS MAY ALSO



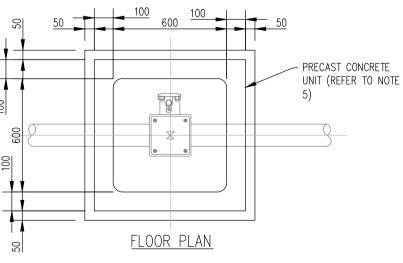
PLINTH IN GRASSED AREAS



<u>SECTION</u>



ROOF PLAN



<u>AIR VALVE CHAMBER</u> (PRECAST CONCRETE CONSTRUCTION) (STD - W - 20)

SCALE 1:20

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SCALE 1:20

ROOF PLAN

- For setting out refer to Architect's drawings.
- This drawing to be read in conjunction with all other Architectural and Engineering drawings and all other relevant drawings and Specifications. DO NOT SCALE THIS DRAWING. Use figured dimensions only
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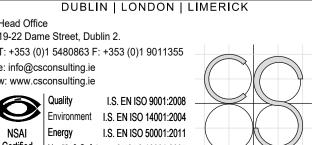
Reddy Architecture + Urbanism Residential Development Clonattin, Gorey Watermain Details Sheet 1 of 2 CLO-CSC-ZZ-XX-DR-C-0030

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