SPECIFICATION.

1. DO NOT SCALE FROM THIS DRAWING. USE STATED DIMENSIONS ONLY. IF IN DOUBT, CONSULT THE ENGINEER.

2. LEVELS REFER TO O.S. DATUM MALIN HEAD.

3. THIS DRAWING SHALL BE READ IN CONJUNCTION WITH THE

4. FOR ALL INLETS, OUTLETS AND BRANCHES MATCH CROWN LEVELS UNLESS INDICATED OTHERWISE ELSEWHERE.

5. BLINDING CONCRETE SHALL BE CLASS C12/15 TO E.N. 206-1. BLINDING SHALL BE A MINIMUM THICKNESS OF 100mm.

FOUNDATION CONCRETE SHALL BE CLASS C16/20 Dmax=20mm TO E.N. 206-1. FOUNDATIONS SHALL BE A MINIMUM THICKNESS

7. PRECAST MANHOLE CHAMBER WALLS, COVER SLABS AND REDUCING SLABS TO BE CONSTRUCTED TO I.S. E.N. 1917 AND

8. FOR BEDDING AND SEALING OF CHAMBER RINGS, THE TOP RING (TO PRE CAST COVER SLAB) AND BOTTOM RING TO BE BEDDED WITH CEMENT MORTAR. FOR INTERMEDIATE RINGS, JOINTS TO BE SEALED WITH TYPE 2 RUBBER GASKETS AND JOINTING RINGS TO B.S. 2494.

9. PRE CAST MANHOLES TO BE SURROUNDED WITH A MINIMUM OF 150mm THICK CONCRETE CLASS C16/20 Dmax=40mm TO E.N.

10.BENCHING AND PIPE CHANNEL PIPE SURROUND - CONCRETE CLASS C16/20 Dmax=20mm TO E.N. 206-1.

11.BENCHING FINISHED IN MINIMUM 25mm THICK 2:1 SAND:CEMENT MORTAR WITH A SMOOTH TROWEL FINISH, AT 1 IN 30 SLOPE TOWARDS CHANNEL.

12.1 TO 2 COURSES OF SOLID ENGINEERING BRICKS CLASS B TO I.S.91:1983 SET IN 3:1 SAND: CEMENT MORTAR.

13.MANHOLE COVERS AND FRAMES TO BE CLASS D400 OR E600 TO I.S. E.N. 124. 150mm DEEP FRAME FOR ROADS AND 100mm DEEP FOR FOOTPATHS AND GREEN AREAS. NON-ROCK DESIGN, CLOSED KEYWAYS, MANUFACTURED FROM SPHEROIDAL GRAPHITE CAST IRON (DUCTILE CAST IRON), COVER AND FRAME COATED IN BITUMEN OR OTHER APPROVED MATERIAL, COVER TO HAVE A MINIMUM MASS OF 140kg/m², FRAME BEARING AREA SHALL BE 80,000mm² MINIMUM, FRAMES SHALL BE DESIGNED TO PREVENT COVERS FALLING INTO MANHOLE. FRAMES SHALL BE BEDDED ON APPROVED MORTAR TO MANUFACTURES INSTRUCTIONS.

14. MANHOLE COVERS, FRAMES, REGULATING COURSES AND SLAB OPES TO PROVIDE CLEAR OPENING OF 600mmX600mm (OR 600mm DIAMETER). WHERE DEPTH OF COVER TO CROWN OF PIPE IS LESS THAN 2.0m, CLEAR OPENING TO BE 900mmX900mm (OR 900mm DIAMETER).

15. SAFETY CHAINS TO BE PROVIDED ON PIPES THAT EXCEED 450mm IN DIAMETER. MILD STEEL SAFETY CHAIN SHALL BE 10mm NOMINAL SIZE GRADE M(H) NON-CALIBRATED CHAIN, TYPE 1, COMPLYING WITH B.S.4942 PART 2 OR EQUIVALENT.

16. STANDARD RUNGS AT 300mm c/c VERTICALLY AND GALVANIZED TO THE LATEST VERSION OF B.S. 729 OR EQUIVALENT. NOTE: STEPS IRONS ARE NOT ACCEPTABLE.

17. LADDER STRINGERS SHOULD BE ADEQUATELY SUPPORTED FROM THE MANHOLE WALL AT INTERVALS OF NOT MORE THAN 2.0m STRINGERS SHOULD BE BOLTED TO CLEATS TO FACILITATE RENEWAL.

18.DISTANCE FROM THE TOP RUNG OF THE LADDER TO GROUND LEVEL MUST BE A MAXIMUM OF 500mm.

19. ALL LADDERS, RUNGS, HANDRAILS, SAFETY CHAINS ETC SHALL BE HOT DIP GALVANIZED TO B.S.729 OR EQUIVALENT.

20.MANHOLE OPENINGS TO BE SITUATED FURTHEST FROM THE NEAREST CARRIAGEWAY. MANHOLE STEPS / ACCESS TO BE POSITIONED TO ALLOW VIEWING OF ONCOMING TRAFFIC.

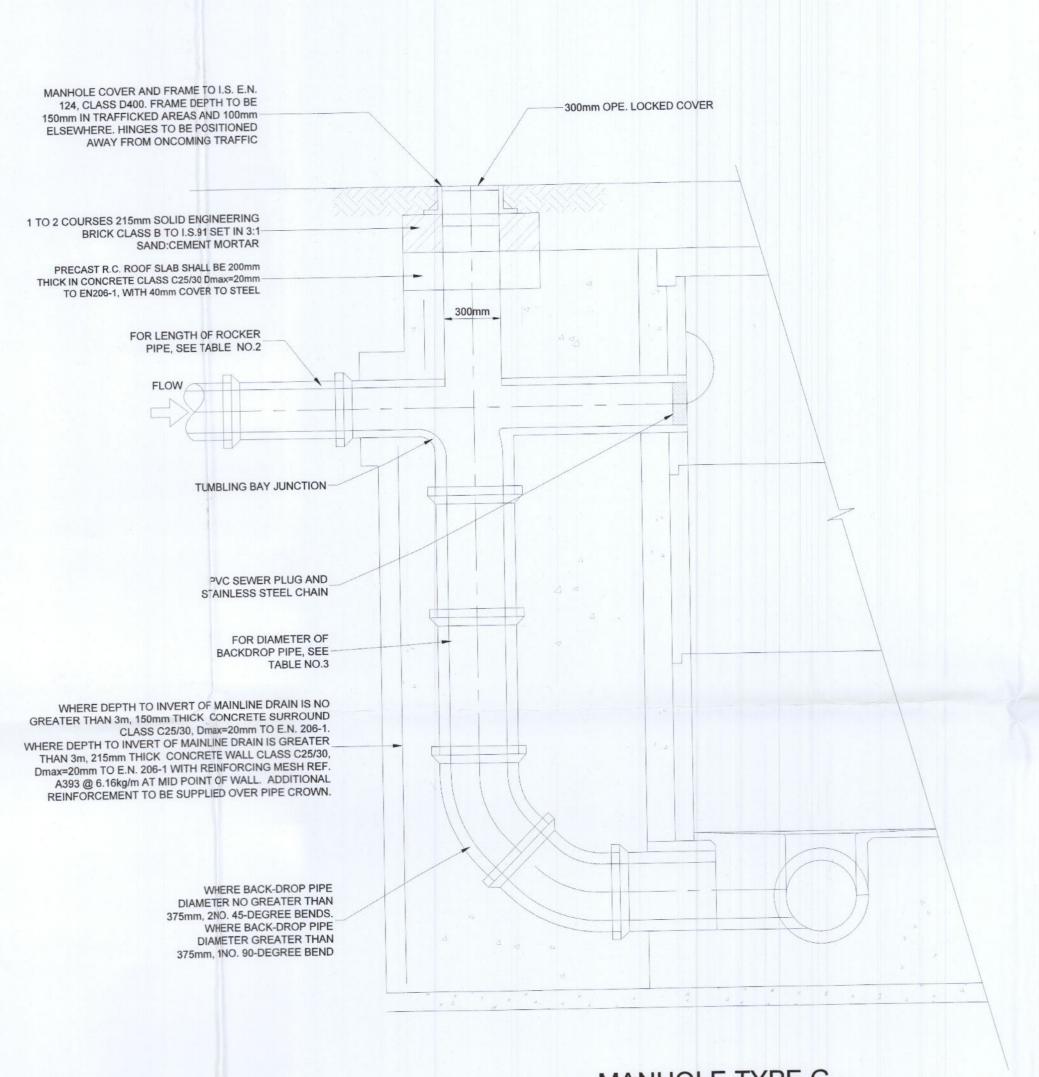
21.SHORT LENGTH PIPE AND PIPE JOINT EXTERNAL TO MANI SHALL NOT EXCEED 600mm FROM THE INNER FACE OF MANHOLE WALL.

22. BLOCK WORK SHALL BE BEDDED AND JOINTED USING MORTAR TO I.S. 406. BEDS AND VERTICAL JOINTS SHALL BE COMPLETELY FILLED WITH MORTAR AS THE BLOCKS ARE LAID. JOINTS SHALL BE FLUSH POINTED AS THE WORK PROCEEDS.

23. RELIEVING ARCH FORMED BY 215x103x65 SOLID ENGINEERING BRICK CLASS A OR B AS PER DRAWING. RELIEVING ARCHES USED IN BRICK OR BLOCK WORK MANHOLES EXTEND OVER FULL THICKNESS OF WALL. A DOUBLE ARCH IS TO BE FORMED FOR PIPE DIAMETERS GREATER THAN 600mm.

24. ALL MANHOLES TO BE WATERTIGHT TO THE SATISFACTION OF THE ENGINEER.

TABLE	NO. 2
DIA. OF PIPE (mm)	LENGTH OF ROCKER PIPE (mm)
150-600	600
675-750	1000
>750	1250
TABLE	E NO.3
Diameter of Incoming Pipe	Diameter of Backdrop Pipe
(mm)	(mm)
100	100
150	150
225	300
300	375
375	375
450	450
525	450
600	450
750	600



MANHOLE TYPE G TYPICAL BACKDROP CONNECTION DETAIL **CROSS SECTION**

PLANNING DRAWING.

NOT FOR CONSTRUCTION. ALL LEVELS GIVEN ARE

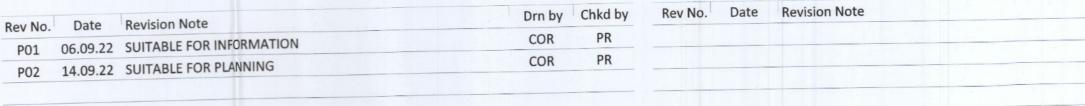
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ORDNANCE SURVEY OF IRELAND LICENCE NO. CYAL50213875 © GOVERNMENT OF IRELAND

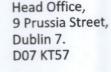
 FOR SETTING OUT REFER TO ARCHITECT'S DRAWINGS. . THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL OTHER ARCHITECTURAL AND ENGINEERING DRAWINGS AND ALL OTHER RELEVANT DRAWINGS AND SPECIFICATIONS.

DO NOT SCALE THIS DRAWING. USE FIGURED DIMENSIONS ONLY.

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NSAI Certified NSAI Certified







BENCHING FORMED TO SUIT

FLEXIBLE JOINT WITHIN

1000mm OF OUTER

WALL OF MANHOLE

MANHOLE COVER AND FRAME TO

I.S. E.N. 124, CLASS D400

215mm SEMI ENGINEERING

BRICK TO FINISHED LEVELS

150mm THICK GRADE C 30

CONCRETE SURROUND

LADDER RUNGS AS

PRECAST CONCRETE MANHOLE RINGS

HYDROBRAKE FLOW CONTROL UNIT BY

HYDRO INTERNATIONAL, SUPPLIED BY

REMAC (DUBLIN) LIMITED OR SIMILAR

BENCHING FORMED TO SUIT

100mm GRADE C 15 CONCRETE BLINDING

HYDROBREAK UNIT IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS

FLOW

SPECIFIED

TO B.S.2494

APPROVED

SLAB TO B.S.2494

PRECAST CONCRETE COVER

HYDROBREAK UNIT IN ACCORDANCE

WITH MANUFACTURERS INSTRUCTIONS

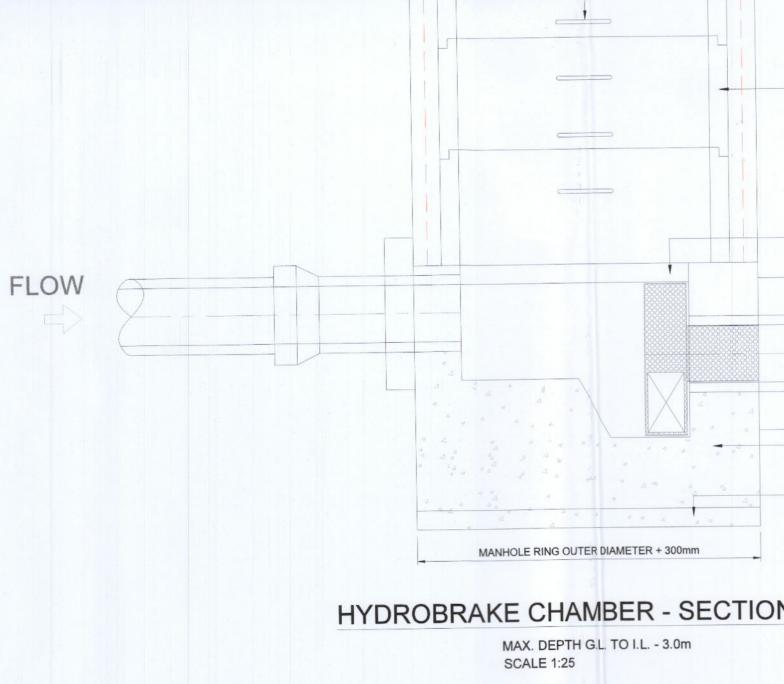
HYDROBRAKE FLOW CONTROL UNIT

e: contactus@ocsc.ie w: www.ocsc.ie

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Code Originator Zone Level Type Role Number Status Revision B981 · OCSC · XX · XX · DR · C · 0531 S4 P02 Date: 06.09.22 Scale: SHWN @ A1 Drn by: COR Chkd by: PR Aprvd by: AH



150mm CONCRETE

SURROUND TO PIPE

HYDROBRAKE CHAMBER - SECTION A-A

HYDROBRAKE

MAX. DEPTH G.L. TO I.L. - 3.0m

CHAMBER

SCALE 1:25

Drn by Chkd by



