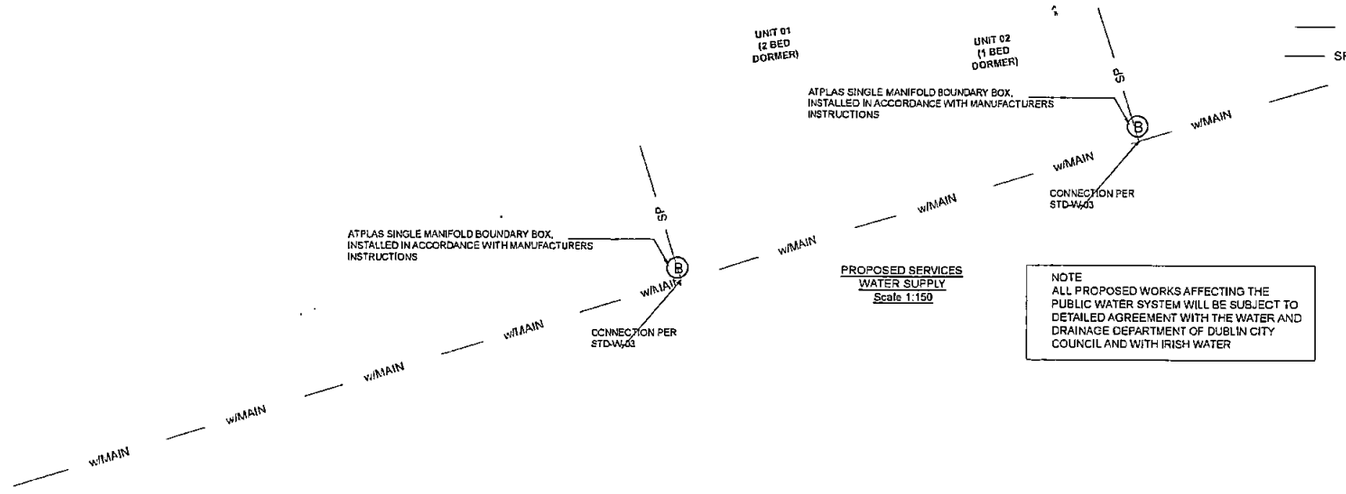

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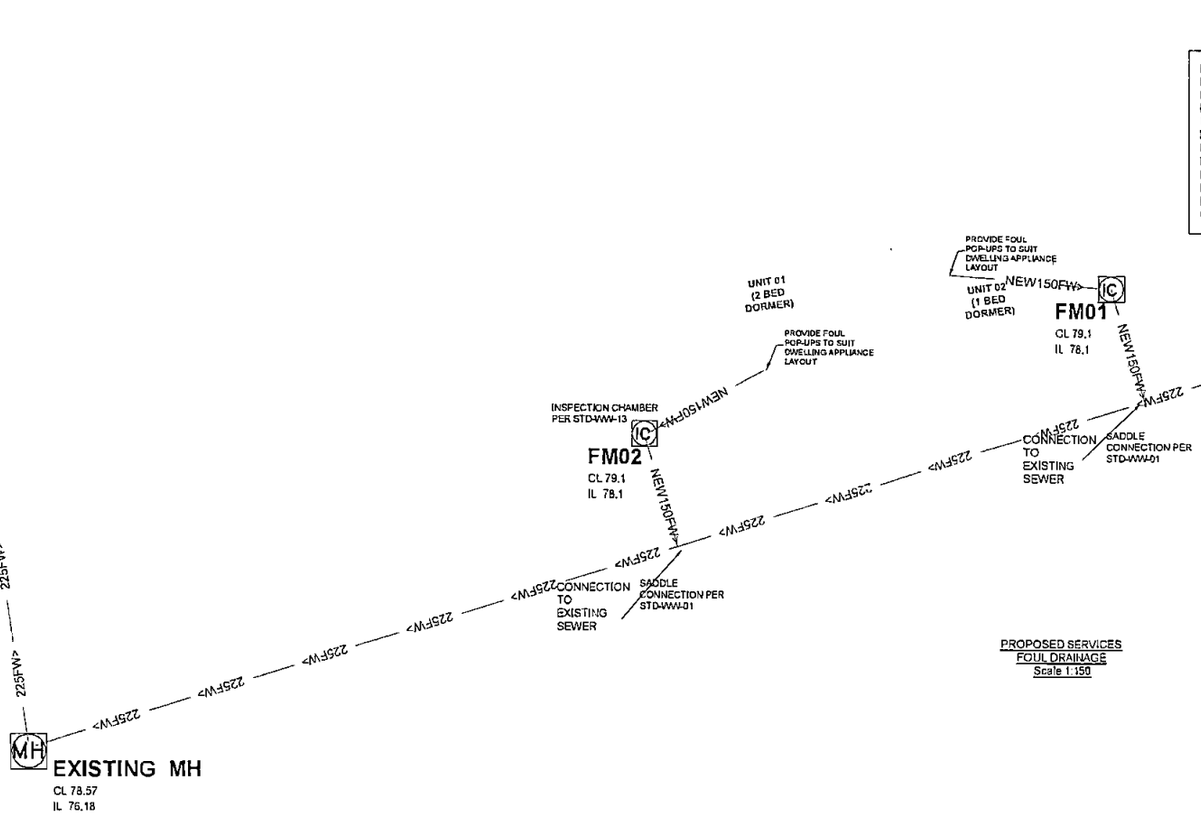
Rev	By	Date	Description
A			PLANNING

Scales | Date | Drawn | Checked

JOB TITLE
PROPOSED DEVELOPME
NEWLANDS DRIVE,CLON
DAVID RAMILLIES

DRG. TITLE
ENGINEERING SERVICES
WATER SUPPLY



NOTE
PROPOSED GRAVITY DRAINAGE SYSTEM WILL BE CONSTRUCTED WITH UPVC OR CONCRETE PIPES TO IS 6 AND LAID IN ACCORDANCE WITH THE BUILDING REGULATIONS(SECTION H)AND IN ACCORDANCE WITH THE SELECTED PIPE MANUFACTURER'S RECOMMENDATIONS.ALL PROPOSED WORKS AFFECTING THE PUBLIC DRAINAGE SYSTEM WILL BE SUBJECT TO DETAILED AGREEMENT WITH THE WATER AND DRAINAGE DEPARTMENT OF SOUTH DUBLIN COUNTY COUNCIL AND WITH IRISH WATER

LEGEND

NEW150FW> NEW 150MMØ uPVc F

225FW> EXISTING 225MMØ C

AJ NEW WAVIN SHALLOW CHAMBER

IC INSPECTION CHAMBE

ALL UPVC SEWER PIPES SHALL BE S
SN8 / SDR34

ALL PIPES UNDER ROADWAYS SHAL
CONCRETE & PROVIDED WITH MOVE
ACCORDANCE WITH IW DETAILS

NOTES

1.0 DRAWINGS ARE NOT OT BE SCALED. USE ON
NOTIFIED OF ANY DISCREPENCIES.

2.0 ALL LEVELS REFER TO OS DATUMN MALIN H

3.0 THIS DRAWING SHALL BE READ IN CONJUNC
CONTRACT DOCUMENTATION.

4.0 ALL WORK SHALL COMPLY WITH THE REQUI
"RECOMMENDATIONS FOR SITE DEVELOPMENT
REQUIREMENTS OF THE LOCAL AUTHORITY.

5.0 CONCRETE BASES AND SURROUNDS SHALL
THICK AND CONTAIN ONE LAYER OF A142 MESH

6.0 BLINDING CONCRETE SHALL BE GRADE C15.

7.0 SAND CEMENT RENDER SHALL BE A MINIMUM

8.0 CHAMBERS COVERS & FRAMES SHALL COMP
MINIMUM CLASS D400. CHAMBER COVERS SHAL
INDICATE THE TYPE OF VALV

9.0 ALL CONNECTIONS TO THE LOCAL MAINS S
UNDER THE SUPERVISION OF THE LOCAL AUTH

10.0 ALL PRESSURE TESTING & STERILISATION S
UNDER THE SUPERVISION OF THE LOCAL AUTH

NOTES

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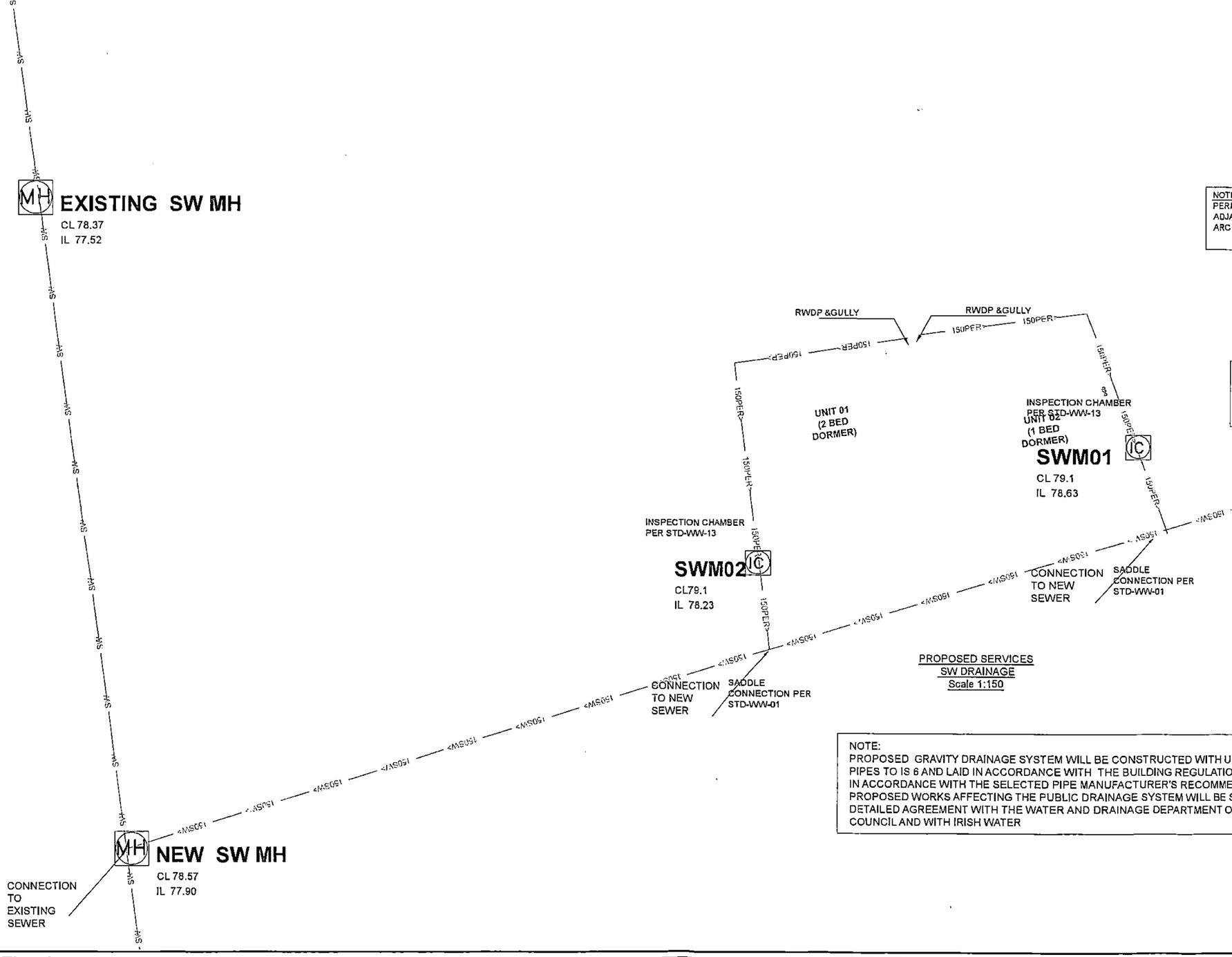
Scales	Date	Drawn	Checked

JOB TITLE
PROPOSED DEVELOPM
NEWLANDS DRIVE,CLO
DAVID RAMILLIES

ORG. TITLE
ENGINEERING SERVICI
FOUL DRAINAGE



PROPOSED SERVICES
SW DRAINAGE
Scale 1:150

NOTE:
PROPOSED GRAVITY DRAINAGE SYSTEM WILL BE CONSTRUCTED WITH U
PIPES TO IS 6 AND LAID IN ACCORDANCE WITH THE BUILDING REGULATIO
IN ACCORDANCE WITH THE SELECTED PIPE MANUFACTURER'S RECOMME
PROPOSED WORKS AFFECTING THE PUBLIC DRAINAGE SYSTEM WILL BE S
DETAILED AGREEMENT WITH THE WATER AND DRAINAGE DEPARTMENT O
COUNCIL AND WITH IRISH WATER

NOTES

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Scales | Date | Drawn | Checked

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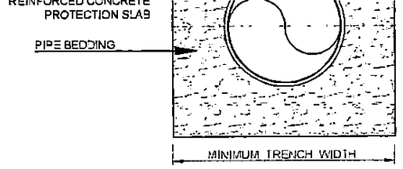
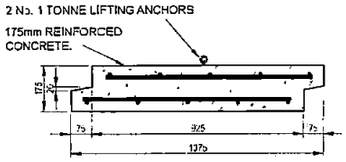
DAVID RAMILLIES

DRG. TITLE
ENGINEERING SERVICE
SURFACE DRAINAGE

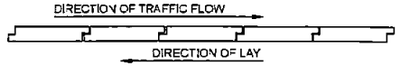


REDUCED COVER PROTECTION SLAB DETAIL

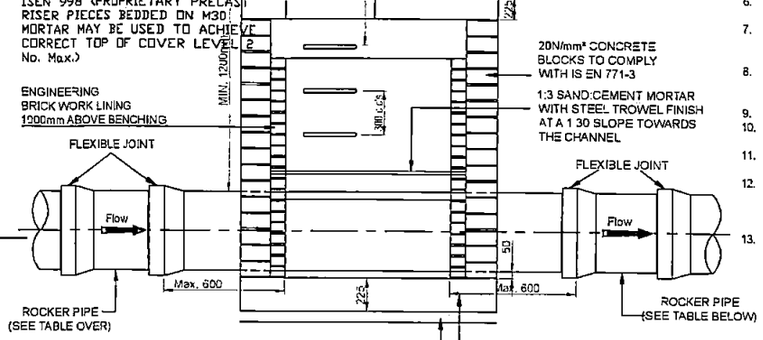


SECTION A-A

7. IF DIRECTION OF PIPELINE AND DIRECTION OF TRAFFIC FLOW ARE PARALLEL, THE DIRECTION OF LAY OF THE SLAB IS TO BE AGAINST THE DIRECTION OF TRAFFIC FLOW.



8. IF PIPELINE PROTECTION SLAB IS TO BE USED SOLELY FOR IMPACT PROTECTION & OVERALL DEPTH OF COVER IS GREATER THAN 1.2m, THE DISTANCE BETWEEN UNDERSIDE OF SLAB & TOP OF PIPE MAY BE INCREASED AFTER CONSULTATION WITH IRISH WATER.



SECTION A-A

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

10. CONCRETE BED AND HAUNCHES MAY BE REQUIRED TO PROVIDE ADDITIONAL SUPPORT IN POOR GROUND CONDITIONS. PROPOSALS TO BE PROVIDED TO IRISH WATER WITH GEOTECHNICAL REPORT SUPPORTING THEIR USE.

11. CONCRETE SURROUNDS SHALL HAVE A MINIMUM THICKNESS OF 150mm WITH AN ABSOLUTE MINIMUM DEPTH OF COVER ABOVE THE EXTERNAL CROWN OF THE PIPE OF 750mm.

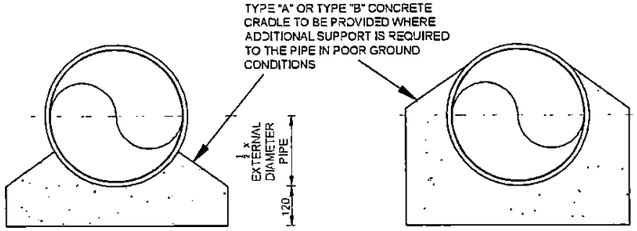
12. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206 AND TO BE GRADE C16/20 TO IS EN206

13. THE HAUNCHES AND SURROUNDS TO BE FORMED USING FORM WORK TO PROVIDE A ROUGH CAST FINISH.

14. EXPANSION JOINTS IN THE CONCRETE SHALL BE PROVIDED AT ALL PIPE JOINTS TO ALLOW FOR PIPE FLEXIBILITY. COMPRESSIBLE FILLER BOARD TO BE IN ACCORDANCE WITH BS EN 622-1 AND BS EN 622-4, AND TO BE 18mm THICK.

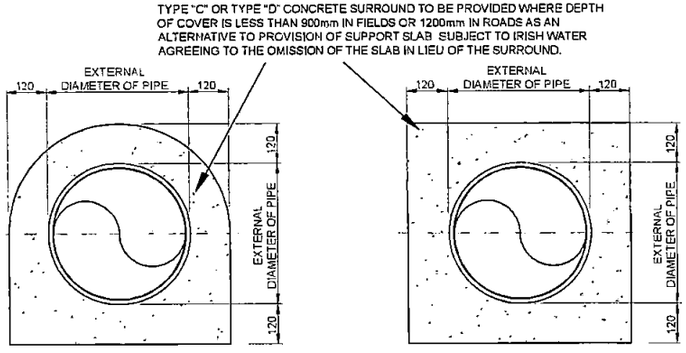
15. POLYETHYLENE AND uPVC PIPES SHALL BE WRAPPED IN PLASTIC SHEETING HAVING A COMPOSITION IN ACCORDANCE WITH BS 6076 BEFORE BEING CAST INTO CONCRETE.

16. BITUMINOUS MATERIAL SHALL NOT BE PUT IN CONTACT WITH PE OR PVC PIPES.



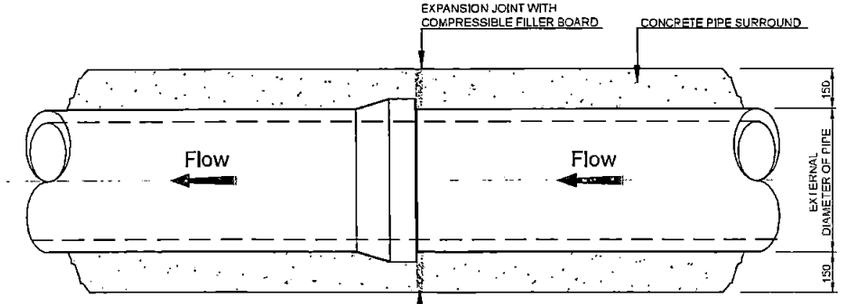
TYPE 'A' (BED)

TYPE 'B' (HAUNCH)



TYPE 'C' (SURROUND)

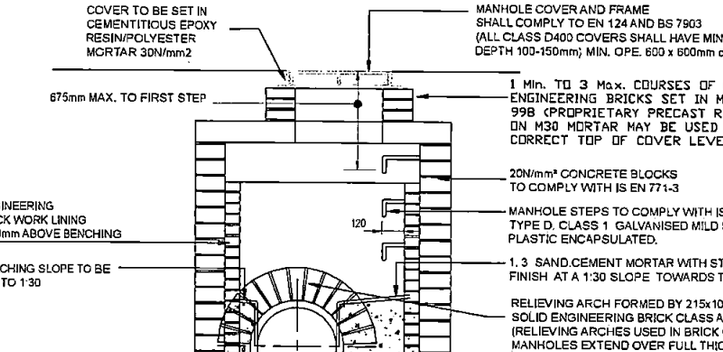
TYPE 'D' (SURROUND)



SPIGOT AND SOCKET JOINT

STD-WW-08 CONCRETE PROTECTION TO WASTEWATER PIPES

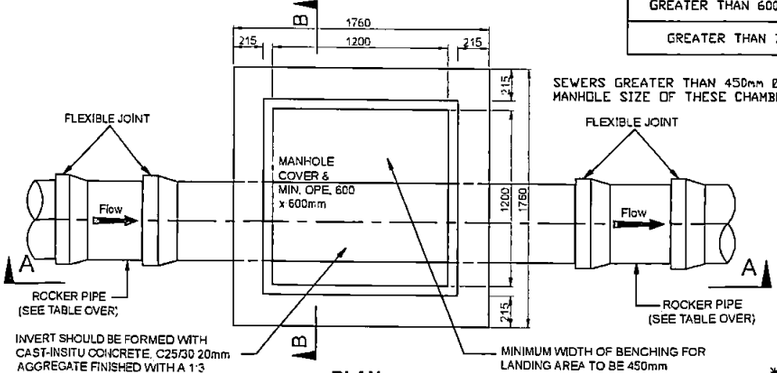
NTS



SECTION B-B

ROCKER PIPE LEN	
PIPE DIAMETER (mm)	
150 TO 600	
GREATER THAN 600 TO	750
GREATER THAN 750	

SEWERS GREATER THAN 450mm Ø ARE OUTS MANHOLE SIZE OF THESE CHAMBERS MAY B



PLAN

STD-WW-09 BLOCKWORK MANHOLE (<450mm DIA.)

NTS

NOTES

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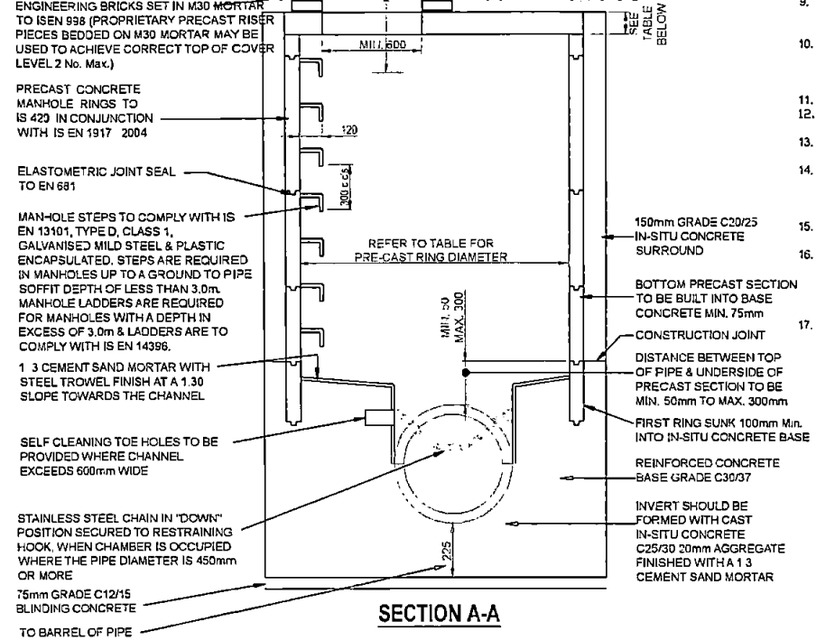
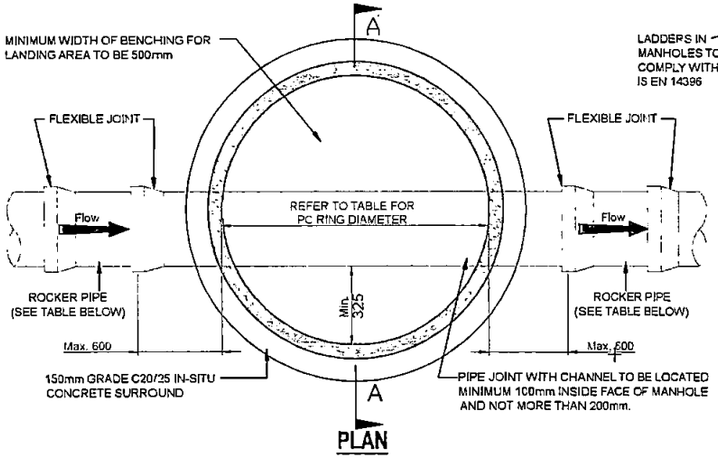
RESIDENTAIL DEVELO
NEWLANDS DRIVE
DUBLIN 8

DRG. TITLE
SHEET 1
DRAINAGE DETAILS



SECTION A-A



PLAN

MINIMUM MANHOLE DIAMETERS			
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)	MIN. PRECAST ROOF SLAB EFFECTIVE THICKNESS (mm)	MIN. IN-SITU ROOF SLAB THICKNESS (mm)
LESS THAN 375	1200	160	225
375 TO 450	1350	160	225
500 TO *50	1500	170	225

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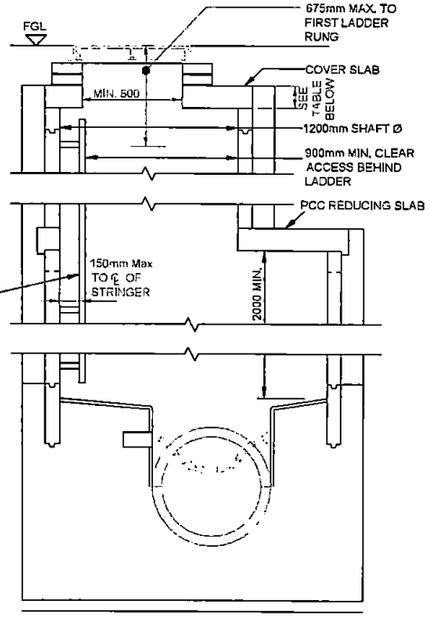
- 9. 200mm ALL AROUND x 100mm DEEP C20/25 CONCRETE PLINTH COMPLETE WITH BULL NOSE FINISH AND TO BE PROVIDED COMPLETE WITH MILD STEEL REINFORCEMENT LINK AROUND COVERS IN GREEN AREAS.
- 10. ALL CHAMBERS TO BE CHECKED FOR UPLIFT BY THE DEVELOPER BASED ON GROUND CONDITIONS WITHIN THE SITE. SHOULD ANTI FLOATATION MEASURES BE REQUIRED THEY SHALL BE SUBJECT TO REVIEW BY IRISH WATER.
- 11. ALL CONCRETE TO BE IN ACCORDANCE WITH IS EN 206 - 2013.
- 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. IF DEPTH FROM GROUND TO PIPE SOFFIT IS GREATER THAN 6m DEEP, A SITE SPECIFIC ENGINEERED SOLUTION FOR ACCESS SHALL BE PROVIDED.
- 16. PROPRIETARY WATERTIGHT PCC MANHOLE RING SYSTEMS WITH A WALL THICKNESS > 125mm & A WATER TIGHT JOINT SEALING SYSTEM, MAY BE USED WITHOUT CONCRETE SURROUND, SUBJECT TO THE GROUND WATER LEVEL AT THE MANHOLE BEING LOW. & SUBJECT TO REVIEW BY IRISH WATER.
- 17. THE INTERNAL MANHOLE DIAMETERS SHOWN IN THE TABLE BELOW ARE MINIMUM DIMENSIONS AND WILL INCREASE DEPENDING ON THE NUMBER AND DIAMETER OF ADDITIONAL INLETS AND FINISHED WITH A 1:3 SAND/CEMENT FINISH TO SUIT FLOW OF INLETS AND OUTLET.



MANHOLE DETAIL > 3m & < 6m GROUND TO SOFFIT DEPTH

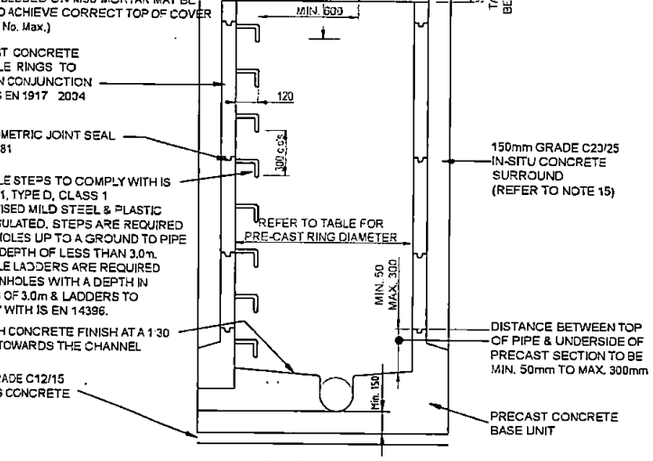
(NOTE. ON MANHOLES <1.5mØ, REDUCING SLAB NOT TO BE USED & PCC RINGS TO CONTINUE UP TO COVER SLAB)

ROCKER PIPE LENGTH	
PIPE DIAMETER (mm)	ROCKER PIPE LENGTH (mm)
150 TO 600	600
GREATER THAN 600 *TO 750	1000
GREATER THAN *750	1250

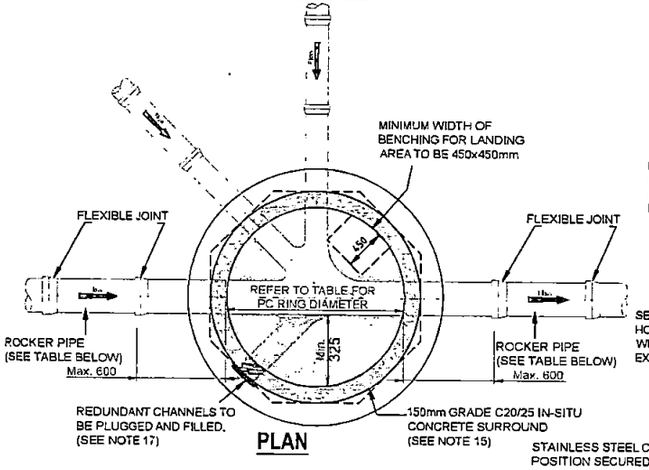
*SEWERS GREATER THAN 450mm Ø ARE OUTSIDE THE SCOPE OF THE STANDARD DETAILS. MANHOLE SIZE OF THESE CHAMBERS MAY BE REUIRED DUE TO MULTIPLE PIPES WITHIN MANHOLE.

STD-WW-10 PRECAST CONCRETE MANHOLE WITH CAST IN SITU BASE

NTS



SECTION A-A



PLAN

NOTE:
IF FLEXIBLE PIPES ARE BEING USED, ROCKER PIPES ARE NOT REQUIRED.

MINIMUM MANHOLE DIAMETERS			
DIAMETER OF LARGEST PIPE IN MANHOLE (mm)	INTERNAL DIAMETER OF MANHOLE (mm)	MIN. PRECAST ROOF SLAB EFFECTIVE THICKNESS (mm)	MIN. IN-SITU ROOF SLAB THICKNESS (mm)
LESS THAN 375	1200	160	225
375 TO 450	1350	160	225
500 TO 750	1500	170	225

PIPE DIAME	
150	
GREATER	
GREATE	

*SEWERS GREATER T
MANHOLE SIZE OF T

STD-WW-10A PRECAST CONCRETE MANHOLE

NTS

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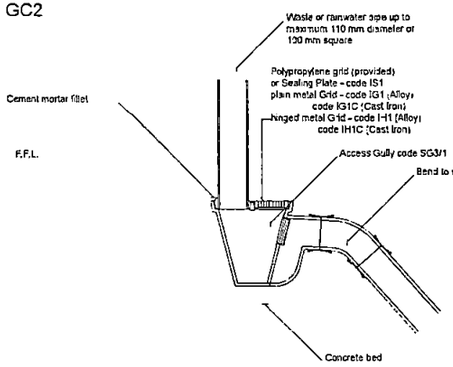
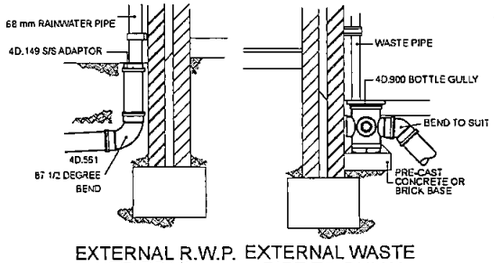
JOB TITLE
PROPOSED DEVELOP
NEWLANDS DRIVE
CLONDALKIN
DRG. TITLE
SHEET 2
DRAINAGE DETAILS

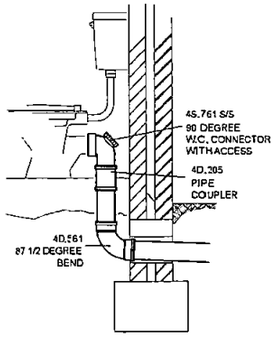
Access Gully.
Connection Detail
GC2



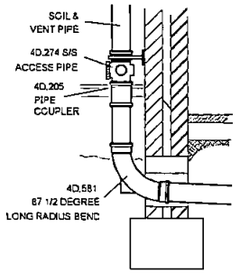


EXTERNAL R.W.P. TO DRAIN

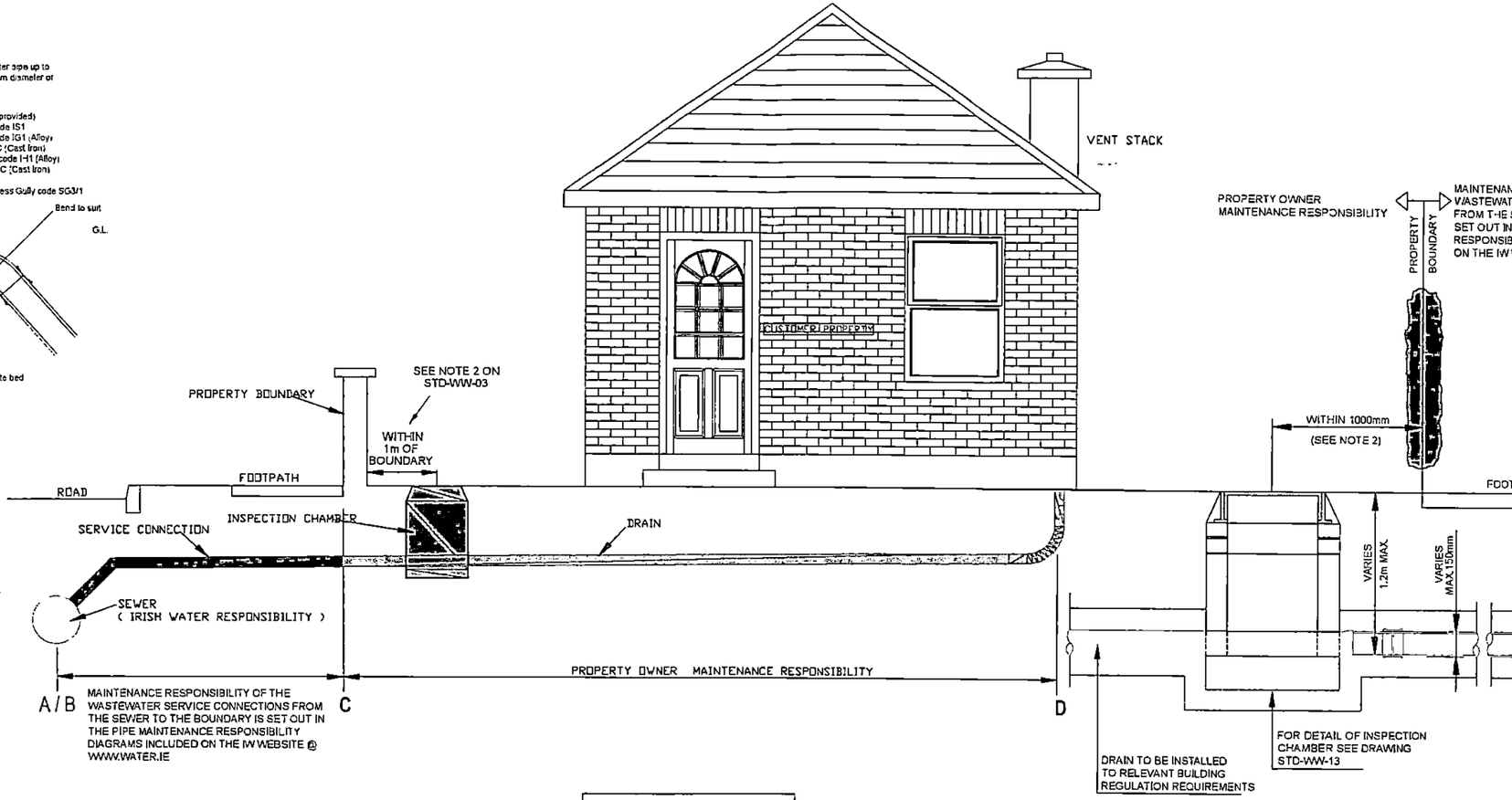
EXTERNAL WASTE PIPE TO GULLY



W.C. DIRECT TO DRAIN



SOIL & VENT TO DRAIN



	MAINTENANCE RESPONSIBILITY
(A) SEWER	IRISH WATER
(B-C) SERVICE CONNECTION (INCLUDING SADDLE)	SEE NOTE ABOVE
INSPECTION CHAMBER	PROPERTY OWNER
(C-D) DRAIN	PROPERTY OWNER
INTERNAL PLUMBING	PROPERTY OWNER

STD-WW-01

WASTEWATER SERVICE CONNECTION MAINTENANCE RESPONSIBILITY

SECTION SHOWING DRAI
CONNECTION PIPEWORK

PIPE SIZE (mm)	
100	

DRAIN AND SE

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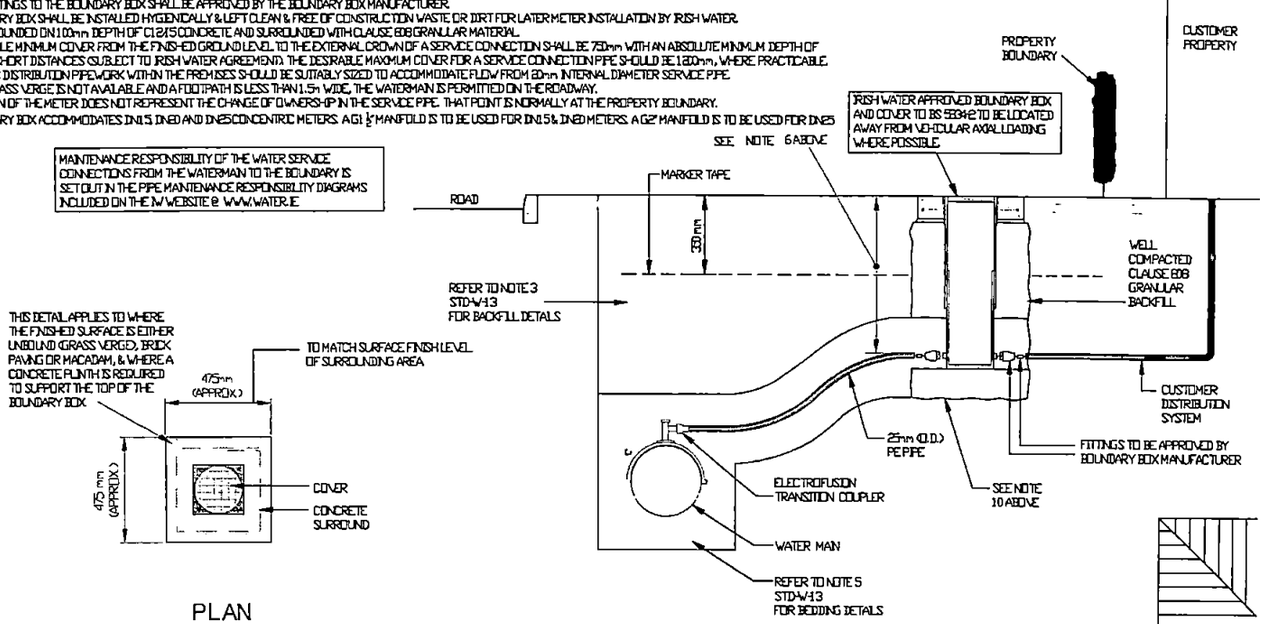
JOB TITLE
PROPOSED DEVELOPM
NEWLANDS DRIVE
CLONDALKIN

DRG. TITLE
SHEET 3
DRAINAGE DETAILS

8 THE PIPE FITTINGS TO THE BOUNDARY BOX SHALL BE APPROVED BY THE BOUNDARY BOX MANUFACTURER.
9 THE BOUNDARY BOX SHALL BE INSTALLED HYGIENICALLY & LEFT CLEAN & FREE OF CONSTRUCTION WASTE OR DIRT FOR LATER METER INSTALLATION BY IRISH WATER.
10 BOX TO BE FOUNDED ON 100mm DEPTH OF C12/15 CONCRETE AND SURROUNDED WITH CLAUSE 808 GRANULAR MATERIAL.
11. THE DESIRABLE MINIMUM COVER FROM THE FINISHED GROUND LEVEL TO THE EXTERNAL CROWN OF A SERVICE CONNECTION SHALL BE 750mm WITH AN ABSOLUTE MINIMUM DEPTH OF 600mm FOR SHORT DISTANCES (SUBJECT TO IRISH WATER AGREEMENT). THE DESIRABLE MAXIMUM COVER FOR A SERVICE CONNECTION PIPE SHOULD BE 1200mm, WHERE PRACTICABLE.
12 CUSTOMERS DISTRIBUTION PIPEWORK WITHIN THE PREMISES SHOULD BE SUITABLY SIZED TO ACCOMMODATE FLOW FROM 20mm INTERNAL DIAMETER SERVICE PIPE.
13 WHERE A GRASS VERGE IS NOT AVAILABLE AND A FOOTPATH IS LESS THAN 1.5m WIDE, THE WATERMAIN IS PERMITTED ON THE ROADWAY.
14 THE POSITION OF THE METER DOES NOT REPRESENT THE CHANGE OF OWNERSHIP IN THE SERVICE PIPE. THAT POINT IS NORMALLY AT THE PROPERTY BOUNDARY.
15 THE BOUNDARY BOX ACCOMMODATES DN15 DINED AND DN25CONCENTRIC METERS. A G1 ½" MANIFOLD IS TO BE USED FOR DN15 DINED METERS. A G2" MANIFOLD IS TO BE USED FOR DN25 METERS.

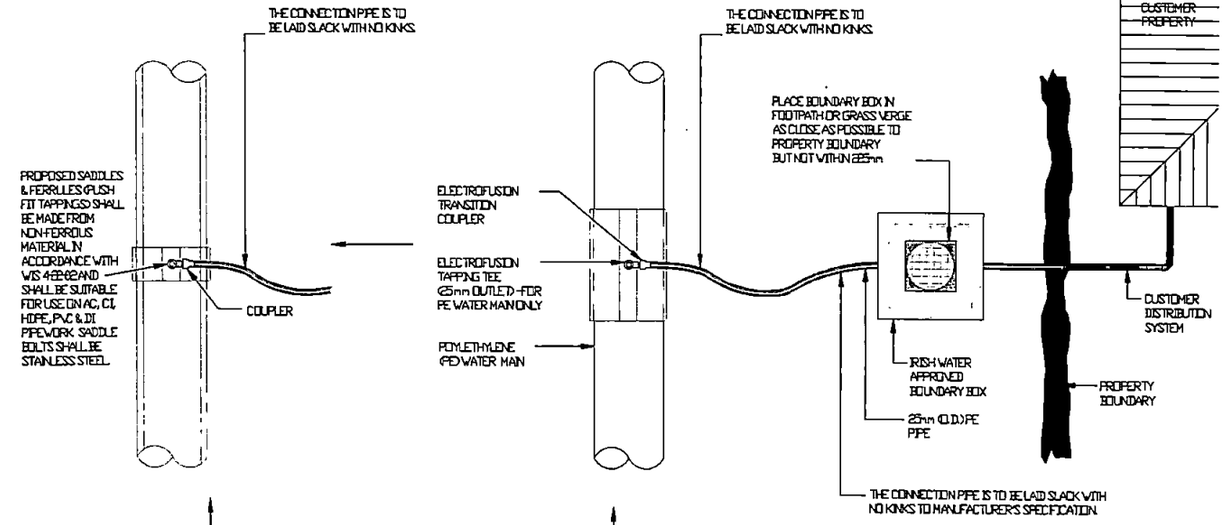
MAINTENANCE RESPONSIBILITY OF THE WATER SERVICE CONNECTIONS FROM THE WATERMAIN TO THE BOUNDARY IS SET OUT IN THE PIPE MAINTENANCE RESPONSIBILITY DIAGRAMS INCLUDED ON THE IW WEBSITE @ WWW.WATER.IE



PLAN

CONCRETE SURROUND TO BOUNDARY BOX COVER

SECTION



FOR D.I. WATER MAINS

FOR POLYETHYLENE (PE) WATER MAIN ONLY

PLAN

STD-W-03 CUSTOMER CONNECTION & BOUNDARY BOX

NTS

3. NOTIFICATION IN WRITING IS REQUIRED SHOULD WORKS BE WITHIN THE FOLLOWING DISTANCES FROM A WHERE THE DEPTH OF THE EXISTING INFRASTRUCTURE DOES NOT EXCEED 1.5m.-

HORIZONTAL
1m AT EITHER SIDE OF AN EXISTING PIPE LESS THAN 200mm IN DIAMETER.
2m AT EITHER SIDE OF AN EXISTING PIPE OF 200mm TO 350mm IN DIAMETER.
5m AT EITHER SIDE OF AN EXISTING PIPE OF 350mm OR GREATER IN DIAMETER.

WHERE DUCTS OR PIPES ARE TO BE LAID CLOSE TO AN EXISTING WATERMAIN OR SEWER IN THE OWNER OF 10 DAYS AHEAD OF ADVANCEMENT OF THE WORK. THIS ALSO APPLIES WHERE THE DEPTH OF THE IR SPECIFIC WRITTEN APPROVAL WILL BE REQUIRED FROM IRISH WATER BEFORE PROCEEDING WITH THE W

NOTIFICATION IN WRITING IS REQUIRED SHOULD WORKS BE WITHIN 1.5m DISTANCE OF A WASTEWATER S

REQUIREMENTS SHALL ALSO APPLY TO TRIAL HOLES OR SLIT TRENCHES TO LOCATE THE MAIN OR GAIN

LARGER DIAMETERS >350mm DISTRIBUTION AND TRUNK MAINS, IRISH WATER MUST BE NOTIFIED AT LEAS

DEVELOPERS SHALL ALSO COMPLY WITH ANY NOTIFICATION REQUIREMENTS OF OTHER UTILITY PROVIDE

4. DETAILED PROPOSALS, INCLUDING WORK METHOD STATEMENTS, INSURANCE CONFIRMATION AND DETAI BE SUBMITTED TO IRISH WATER FOR ITS CONSIDERATION BEFORE AGREEMENT WILL ISSUE. ALL SUCH W (MAINS GREATER THAN 400mm) SHALL BE SUBJECT TO WRITTEN AGREEMENT WITH IRISH WATER BEFORE SHALL ALSO INCLUDE ANY NECESSARY PROTECTION FOR WATER MAINS.

5. ANY DAMAGE SHALL BE NOTIFIED IMMEDIATELY TO IRISH WATER. THE PERSON WHO CAUSES THE DAMAG COMMITTED AN OFFENCE UNDER SECTION 45 OF THE WATER SERVICES ACT 2007.

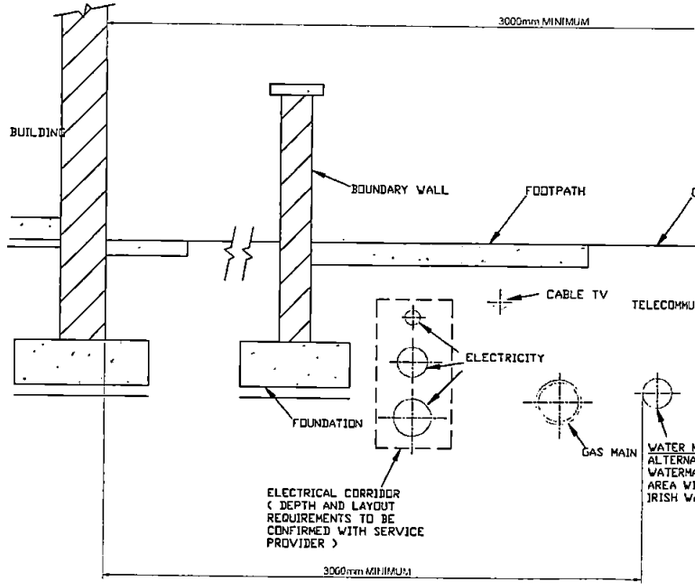
6. UNDER NO CIRCUMSTANCES WILL IRISH WATER ACCEPT SEWER MAIN INSTALLATIONS UNDER STRUCTUR ANY EXISTING STRUCTURES OR FEATURES THAT WILL INHIBIT ACCESS FOR POST INSTALLATION MAINTE

7. THE MINIMUM CLEAR HORIZONTAL DISTANCES SHOWN BELOW WILL BE INCREASED IF THE DEPTH OF T THE MINIMUM CLEAR DISTANCES FOR PIPE DIAMETERS OF 450mm AND GREATER OR FOR DEPTHS EXCEE THESE SEPARATION DISTANCES SHALL ALSO APPLY TO SEPARATION FROM EXISTING STRUCTURES, INCL

8. THE EXTERNAL FACES OF MANHOLES SHALL BE AT LEAST 0.5m FROM THE EXTERNAL FACE OF THE KERB

9. THE EXTERNAL WALL OF THE SEWER IS TO BE AT LEAST 1.0m FROM THE EXTERNAL FACE OF THE KERB LI

10. WHERE DESIGN DEVIATES FROM TYPICAL DETAILS, THE LAYOUT SHALL BE SUBMITTED TO IRISH WATER AGREEMENT, WHICH IS TO BE OBTAINED IN WRITING BEFORE WORK COMMENCES .



STD-WW-05 TYPICAL SERVICE LAYOUT INDIC

NTS

NOTES
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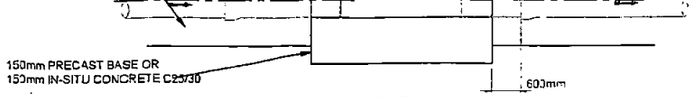
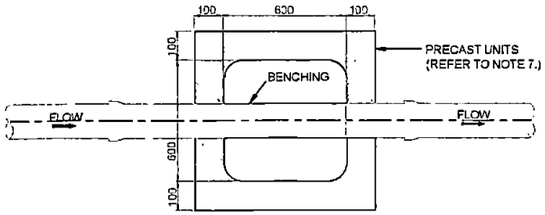


SECTION



FLOOR PLAN

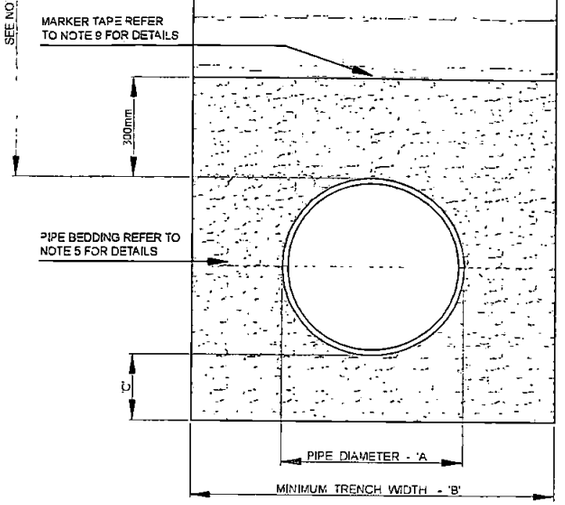
INSPECTION CHAMBER (PRECAST CONCRETE CONSTRUCTION)

COMPACTED CLAUSE 804 OR CLAUSE 808 MATERIAL AS PER STD-WW-07.

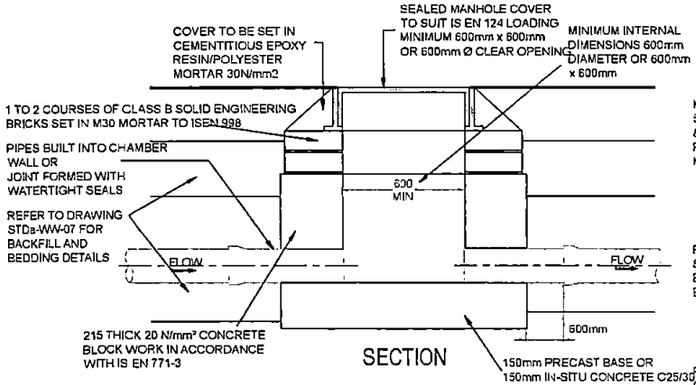
9 MAXIMUM DEPTH FROM COVER LEVEL TO INVERT OF PIPE = 1.2m. INTERNAL DIMENSIONS GREATER THAN 600 x 600mm OR 600mm Ø REQUIRED WHERE DEPTH EXCEEDS 1.2m - CONSULT WITH IRISH WATER.

10. SMALLER INSPECTION CHAMBERS WITH INTERNAL DIMENSIONS OF 450mm Ø OR 450 X 450mm MAY BE PERMITTED SUBJECT TO APPROVAL BY IRISH WATER WHERE CONFINED PHYSICAL CONDITIONS EXIST.

11. PREFABRICATED UNITS SHOULD HAVE WATER TIGHT JOINTS AND SHOULD BE INTERLOCKING TO PREVENT LATERAL MOVEMENT OF INDIVIDUAL SECTIONS OF THE UNIT



CROSS SECTION IN ROADS



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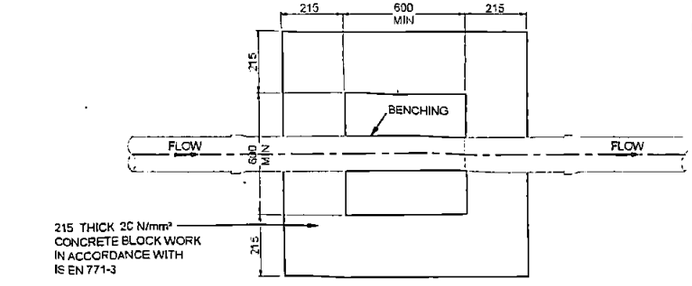
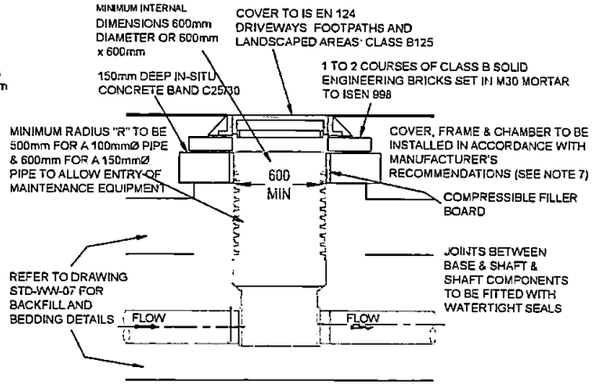


FLOOR PLAN

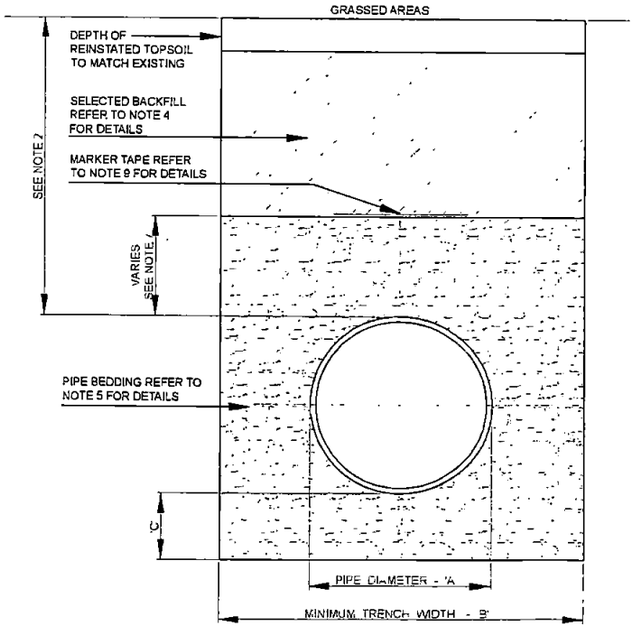
INSPECTION CHAMBER (BLOCK WORK CONSTRUCTION)



SECTION

PROPRIETARY INSPECTION CHAMBER to EN13598-2 (FLEXIBLE MATERIAL, SUBJECT TO PRIOR IRISH WATER APPROVAL)

(MAXIMUM DEPTH FROM COVER LEVEL TO SOFFIT OF PIPE: 1.2m)



CROSS SECTION IN GRASSED AREAS

STD-WW-13

PRIVATE SIDE INSPECTION CHAMBER

STD-WW-07 TRENCH

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