

Irish Water Web Map

NOTE: FOR REFERENCE ONLY

UISCE
EIREANN / IRISH WATER

Print Date: 14/07/2022
Printed by: Irish Water

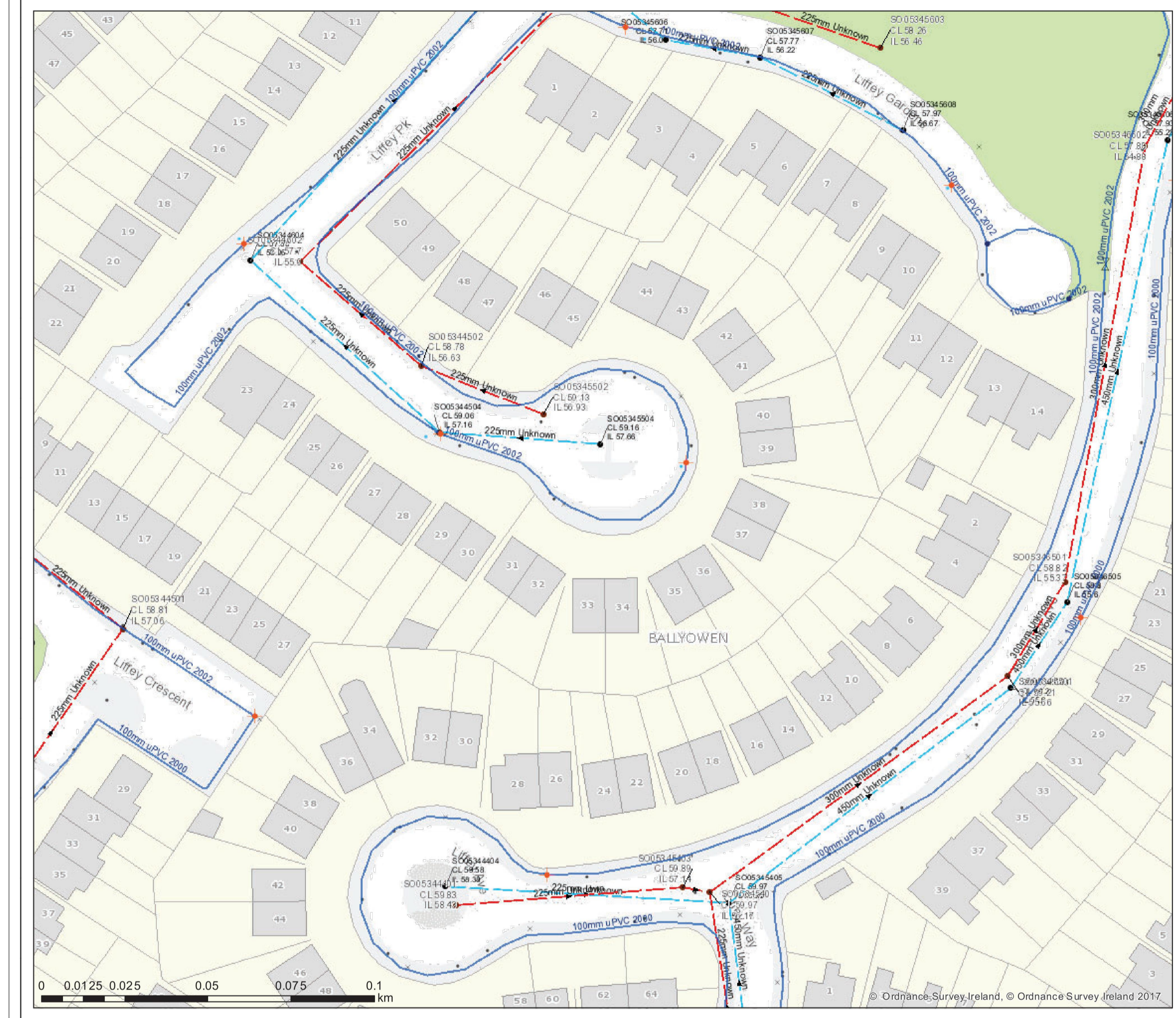
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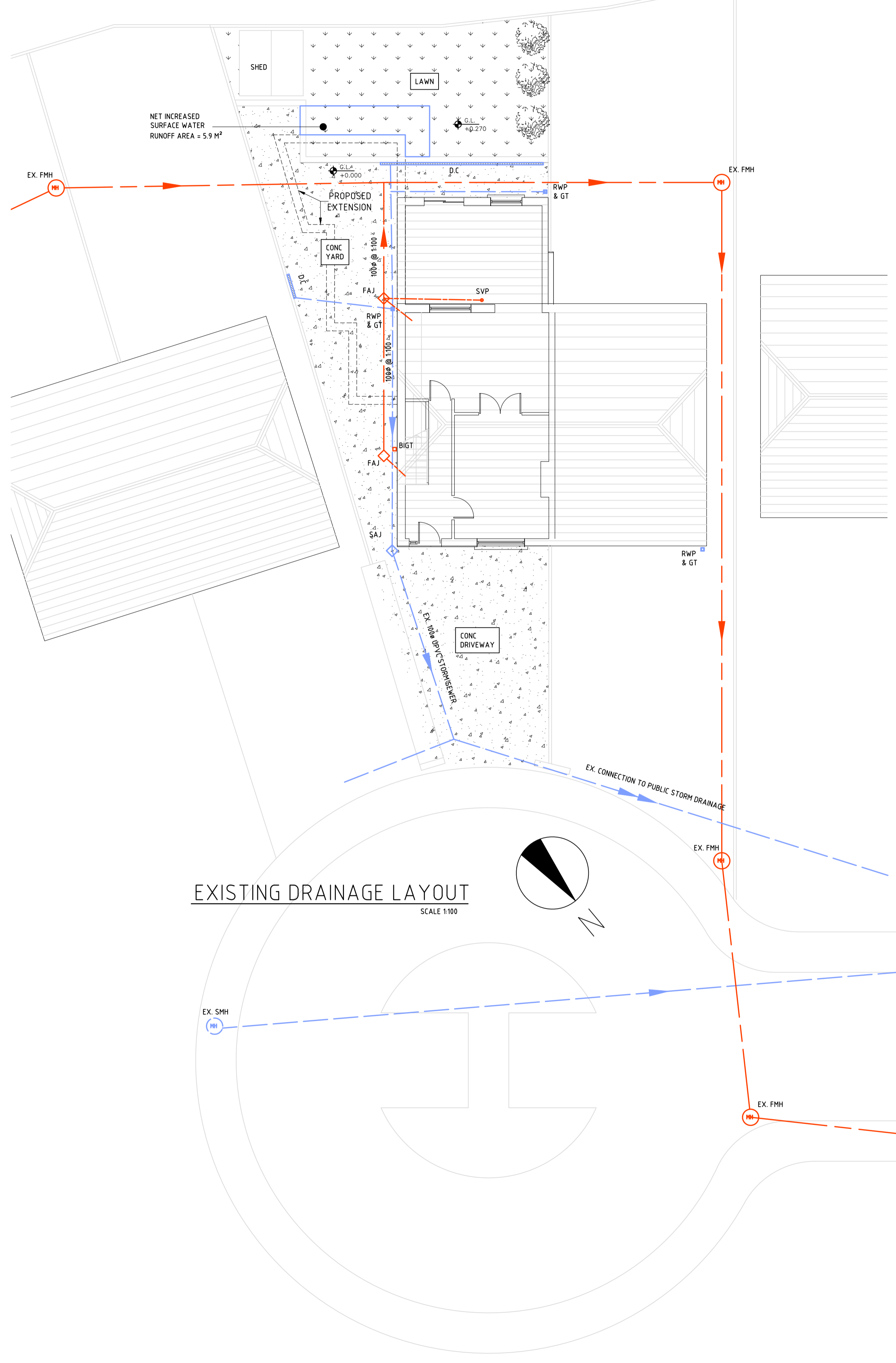
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NOTE: DIAL BEFORE YOU DIG. Phone: 1800 427 747 or e-mail dig@gnetworks.ie. The exact position of the gas electricity, distribution and transmission network must be verified on site before any mechanical excavating takes place. If any mechanical excavation is proposed, hard copy maps must be requested from GNI to get all work in the vicinity of gas distribution and transmission network must be completed in accordance with the current edition of the Health & Safety Authority publication, 'Code of Practice For Avoiding Danger From Underground Services' which is available from the Health and Safety Authority (1800 25 99 99) or can be downloaded free of charge at www.hsa.ie.



Water Distribution Network	Storm Water Network	Water Treatment Plant	Storm Water Mains
Water Pumping Station	Waste Water Treatment Plant	Waste Water Pumping Station	Surface Water Mains
Storage Cell/Tower	Surface Gravelly Mains	Gravelly Combined	Surface Water Pressurized Mains
Dosing Point	Gravelly Combined	Pumping - Combined	Surface Water Pressurized Mains Private
Manhole	Gravelly - Unknown	Pumping - Unknown	Let Type
Accession Point	Gravelly - Unknown	Hydro - Combined	Standard
Intermittent Valve	Pumping - Combined	Hydro - Unknown	Other Unknown
Reservoir	Pumping - Unknown	Hydro - Unknown	Standard
Photocell	Hydro - Combined	Hydro - Unknown	Standard
Raw Water	Hydro - Unknown	Hydro - Unknown	Standard
Water Distribution Mains	Hydro - Unknown	Hydro - Unknown	Standard
High Water	Hydro - Unknown	Hydro - Unknown	Standard
Private	Hydro - Unknown	Hydro - Unknown	Standard
Trunk Water Mains	Hydro - Unknown	Hydro - Unknown	Standard
High Water	Hydro - Unknown	Hydro - Unknown	Standard
Private	Hydro - Unknown	Hydro - Unknown	Standard
Water Lateral Lines	Hydro - Unknown	Hydro - Unknown	Standard
Non HW	Hydro - Unknown	Hydro - Unknown	Standard
Non HW	Hydro - Unknown	Hydro - Unknown	Standard
Water Ceilings	Hydro - Unknown	Hydro - Unknown	Standard
Water Abandoned Lines	Hydro - Unknown	Hydro - Unknown	Standard
Boundary Meter	Hydro - Unknown	Hydro - Unknown	Standard
Bulk Check Meter	Hydro - Unknown	Hydro - Unknown	Standard
Group Scheme	Hydro - Unknown	Hydro - Unknown	Standard
Source Meter	Hydro - Unknown	Hydro - Unknown	Standard
Waste Meter	Hydro - Unknown	Hydro - Unknown	Standard
Unknown Meter, Other Meter	Hydro - Unknown	Hydro - Unknown	Standard
Non-Return	Hydro - Unknown	Hydro - Unknown	Standard
PSV	Hydro - Unknown	Hydro - Unknown	Standard
PSV	Hydro - Unknown	Hydro - Unknown	Standard
Source Line Valve Open/Closed	Hydro - Unknown	Hydro - Unknown	Standard
Butterfly Line Valve Open/Closed	Hydro - Unknown	Hydro - Unknown	Standard
Source Boundary Valve Open/Closed	Hydro - Unknown	Hydro - Unknown	Standard
Butterfly Boundary Valve Open/Closed	Hydro - Unknown	Hydro - Unknown	Standard
Source Valve	Hydro - Unknown	Hydro - Unknown	Standard
Single Air Control Valve	Hydro - Unknown	Hydro - Unknown	Standard
Double Air Control Valve	Hydro - Unknown	Hydro - Unknown	Standard
Water Stop Valve	Hydro - Unknown	Hydro - Unknown	Standard
Water Service Connections	Hydro - Unknown	Hydro - Unknown	Standard
Water Distribution Chambers	Hydro - Unknown	Hydro - Unknown	Standard
Water Network Junctions	Hydro - Unknown	Hydro - Unknown	Standard
Pressure Monitoring Point	Hydro - Unknown	Hydro - Unknown	Standard
Fire Hydrant	Hydro - Unknown	Hydro - Unknown	Standard
Fire Hydrant/Washout	Hydro - Unknown	Hydro - Unknown	Standard
Water Fittings	Hydro - Unknown	Hydro - Unknown	Standard
Cap	Hydro - Unknown	Hydro - Unknown	Standard
Reducer	Hydro - Unknown	Hydro - Unknown	Standard
Tip	Hydro - Unknown	Hydro - Unknown	Standard
Other Fittings	Hydro - Unknown	Hydro - Unknown	Standard
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PRE ISSUE DRAINAGE	GC	08/8/22
REVISION: DESCRIPTION:	BY:	DATE:
STATUS: COMPLIANCE SUBMISSION		

CUNNINGHAM
CIVIL & STRUCTURAL ENGINEERS

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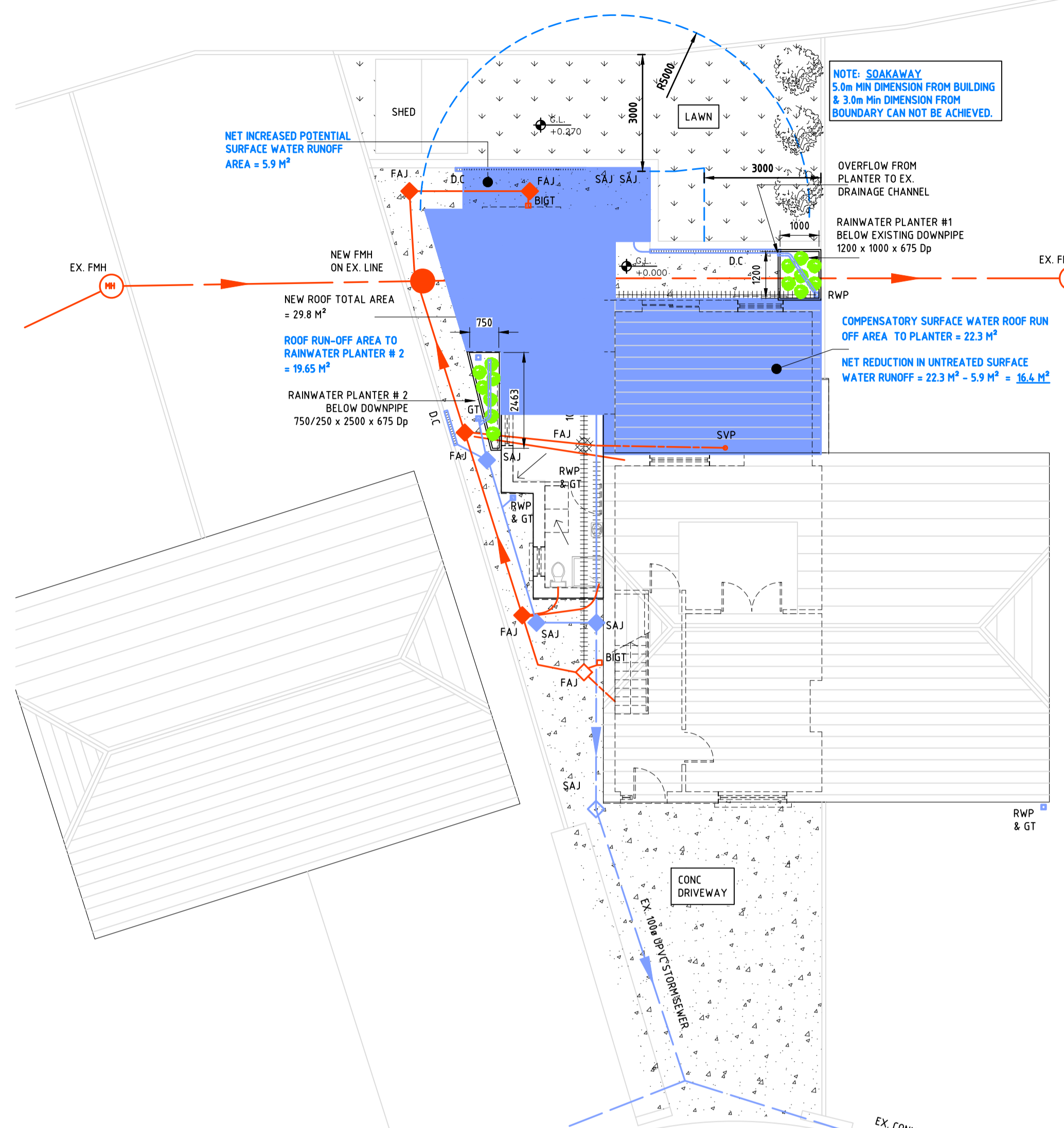
CLIENT:
ELDBHOUSE VARGHESE
32 LIFFEY PARK
LIFFEY VALLEY PARK, LUCAN

ARCHITECT:
COLIN CARROLL

PROJECT: ALTERATIONS & EXTENSION TO
32 LIFFEY PARK
LIFFEY VALLEY PARK, LUCAN

TITLE:
EXISTING DRAINAGE LAYOUT

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
AS SHOWN	JULY '22	GC	
PROJECT NO: 22021	DRAWING NO: 10	REVISION: A	



SuDS Proposal	
Element	(M ²)
Existing Total Site Area	230
Existing soft landscaped / grassed Area	49.1
Existing impermeable area (untreated - direct discharge)	
Proposed reduction in Ex. Landscaped / grassed area due to extension	5.9
Impermeable Area after proposed development	
SuDS Provision	
Roof Run-off Area to Rainwater Planters	Planter 1 22.3
	Planter 2 19.65
Net reduction in untreated run-off =	16.4
Net untreated impermeable area	
Net reduction in untreated surface water run-off. (Relative to pre-development levels)	16.4

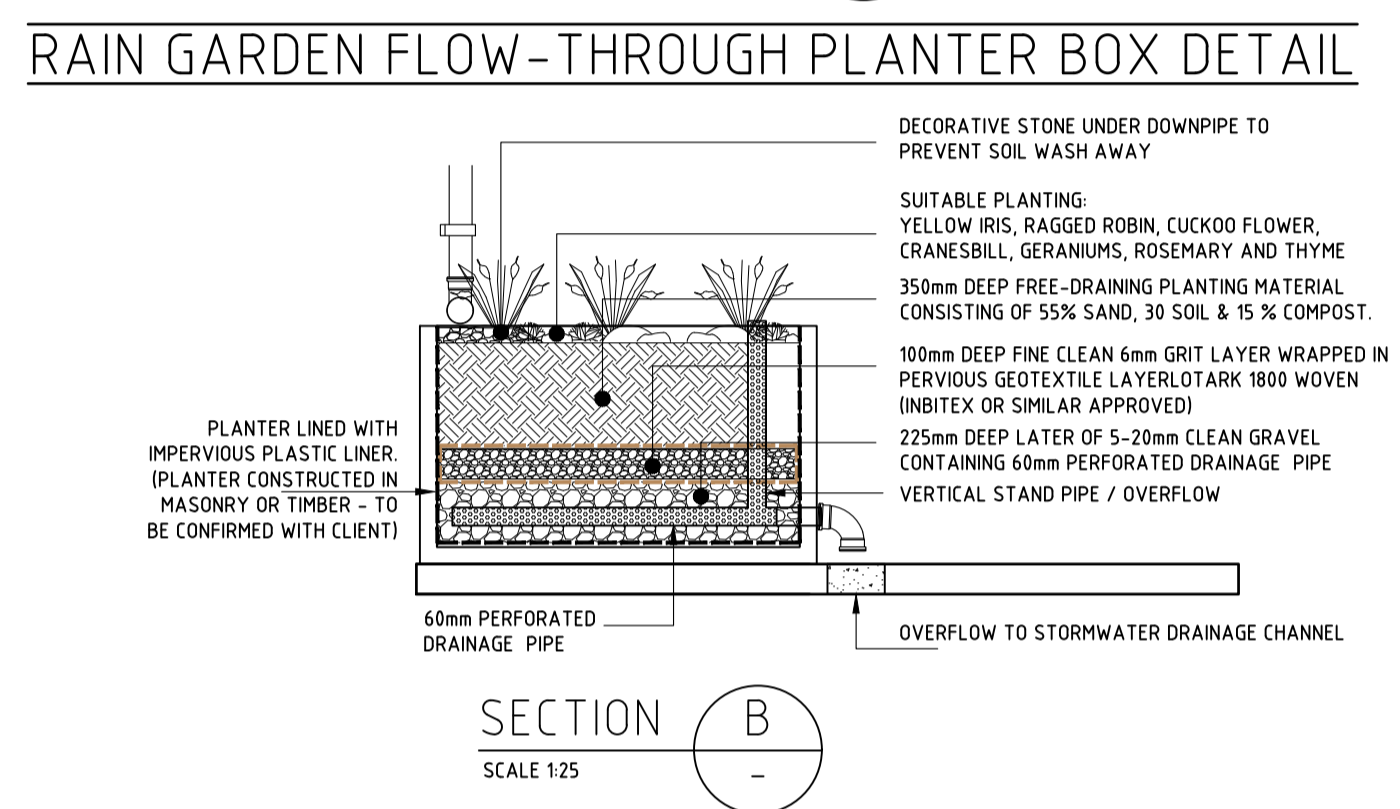
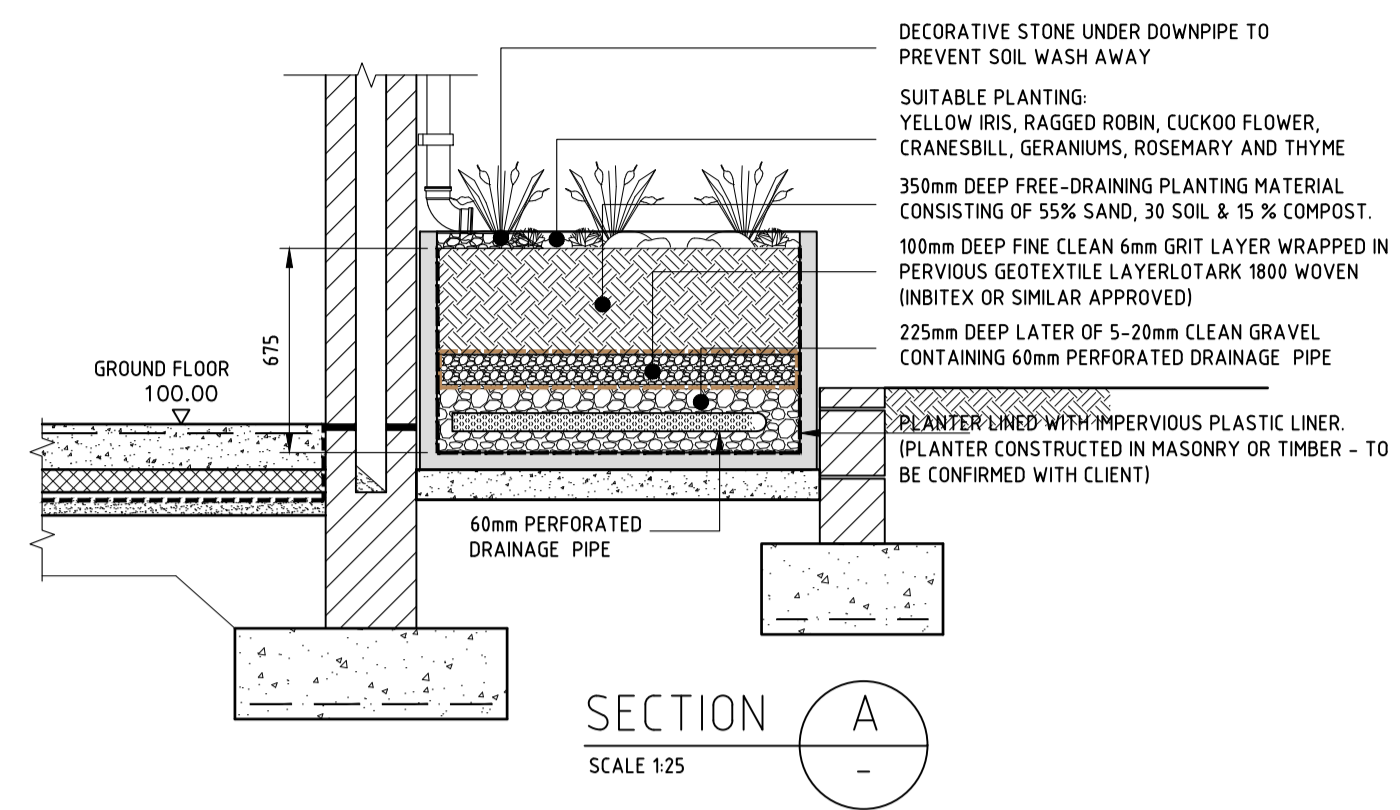
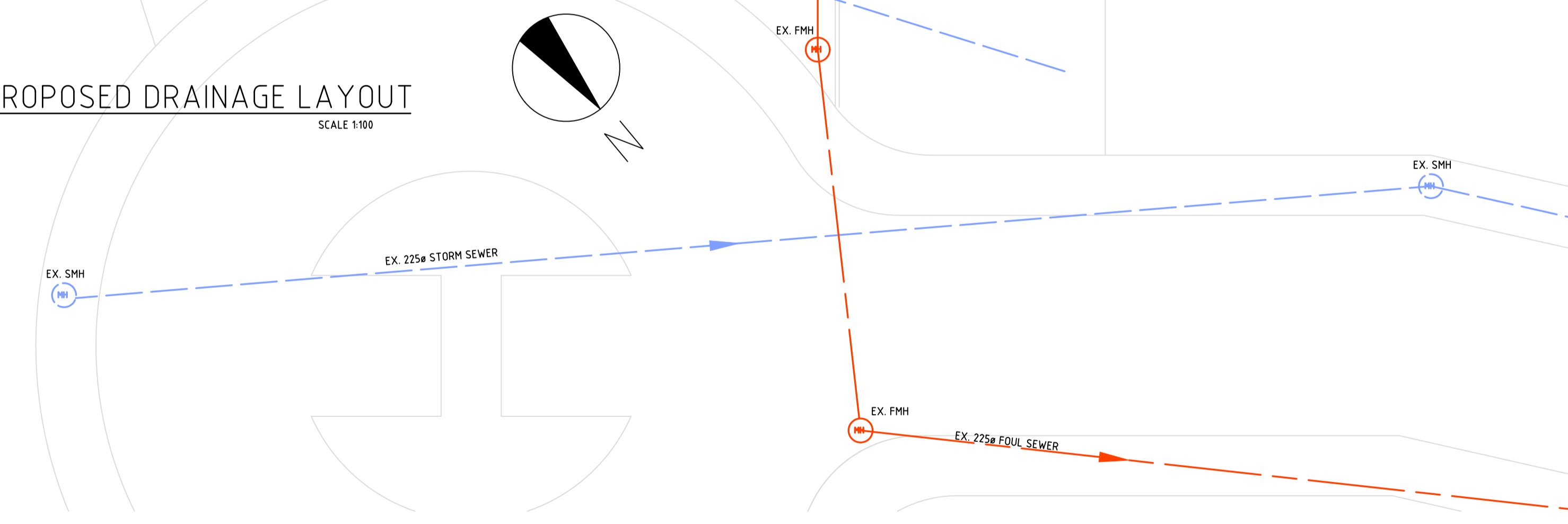


IMAGE EXAMPLE OF RAIN GARDEN PLANTER BOX DETAIL
(FROM SOUTH DUBLIN COUNTY COUNCIL PUBLICATION, A HOUSEHOLDERS GUIDE TO SuDS)

PROPOSED DRAINAGE LAYOUT
SCALE 1:100



- DRAINAGE NOTES**
- THIS DRAWING TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS
 - ALL FOUL SEWERS TO BE FULLY SEALED UPVC PIPES IN ACCORDANCE WITH I.S. EN 1401-1
 - ALL INTERNAL MANHOLE COVERS TO BE DOUBLE SEALED RECESS 'SET-IN' TYPE
 - ALL EXTERNAL MANHOLE COVERS TO BE ROUND GRADE DN 400 E.N. 124
 - ALL EXISTING REDUNDANT PIPEWORK, GULLYS, MANHOLES ETC. TO BE FULLY REMOVED AND BACKFILLED/MADE GOOD ETC. ANY REDUNDANT INTERNAL PIPEWORK TO REMAIN SHOULD BE CAPPED AND FULLY SEALED.
 - CONTRACTOR TO CAREFULLY SURVEY & LOCATE ALL EXISTING DRAINAGE AND ENSURE ALL REMAINING DRAINAGE CONNECTIONS ARE RECONNECTED TO NEW DRAINAGE SYSTEM, INCLUDING EXISTING S.V.P.'S
 - ANY REPAIRS NECESSARY DUE TO DAMAGE BY THE CONTRACTOR WILL BE AT THE CONTRACTORS EXPENSE.
 - ALL WORKS AND TEMPORARY DISCONNECTION OF SERVICES TO BE PHASED AND AGREED WITH THE CLIENT AND DESIGN TEAM.
 - PRIOR TO COMMENCEMENT, CONTRACTOR TO CARRY OUT FULL INVESTIGATION INCLUDING CCTV SURVEY AND LEVELS ETC. OF ALL EXISTING DRAINAGE.
 - CONTRACTOR TO CARRY OUT PRESSURE TESTING OF ALL NEW DRAINAGE FOR INSPECTION BY THE ENGINEER AND TO CARRY OUT A CCTV SURVEY OF COMPLETED DRAINAGE NETWORK. SURVEY OF INVERT LEVEL OF ALL PIPES AND ACCESS POINTS TO BE SENT TO THIS OFFICE FOR APPROVAL PRIOR TO BACKFILLING.
 - ALL WORKS TO FOUL LINE TO CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE & WASTEWATER INFRASTRUCTURE STANDARD DETAILS (LATEST VERSIONS BY IRISH WATER.)
 - ALL DRAINS WITH COVER LESS THAN 0.6m IN PAVED AREAS AND LESS THAN 1.2m UNDER ROADS TO BE WRAPPED IN A MEMBRANE AND BEDDED AND SURROUNDED IN C20/25 CONCRETE. A 20mm GAP SHALL BE PROVIDED IN THE CONCRETE SURROUND AT PIPE JOINTS AND NOT MORE THAN 6m APART. ALL OTHER PIPEWORK SHALL BE BEDDED AND SURROUNDED IN GRANULAR MATERIAL TO SPECIFICATION.

- EXISTING DRAINAGE NOTES**
- CONTRACTOR TO CARRY OUT A DILAPIDATION SURVEY OF THE EXISTING CORRIDOR AND COURTYARD AND ALL AREAS INTERESTED BY THE UPGRADE WORKS PRIOR TO COMMENCEMENT.
 - CONTRACTOR TO ALLOW FOR NECESSARY STORAGE/OVERPUMPING OF SEWAGE DURING THE DURATION OF THE WORKS TO ENSURE EXISTING TOILET FACILITIES ARE OPERATIONAL.
 - CONTRACTOR PARKING, DELIVERY AND STORAGE TO BE FULLY AGREED WITH CLIENT PRIORI TO COMMENCEMENT.
 - CONTRACTOR TO ALLOW FOR ALL NECESSARY RE-CONNECTION OF EXISTING BRANCHES/OUTLETS ETC TO REPLACE SEWER THAT MAY NOT BE SHOWN ON DRAWINGS.

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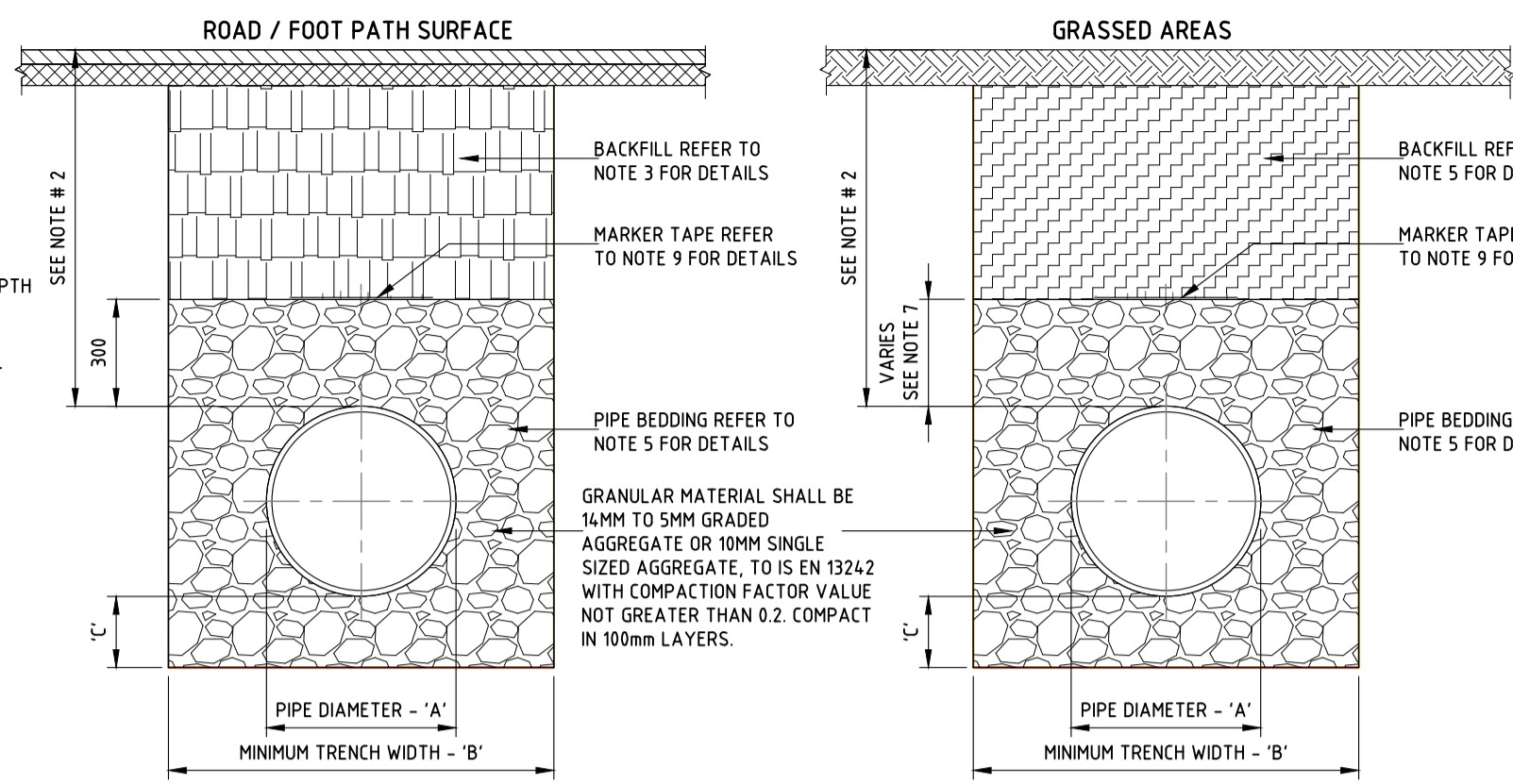
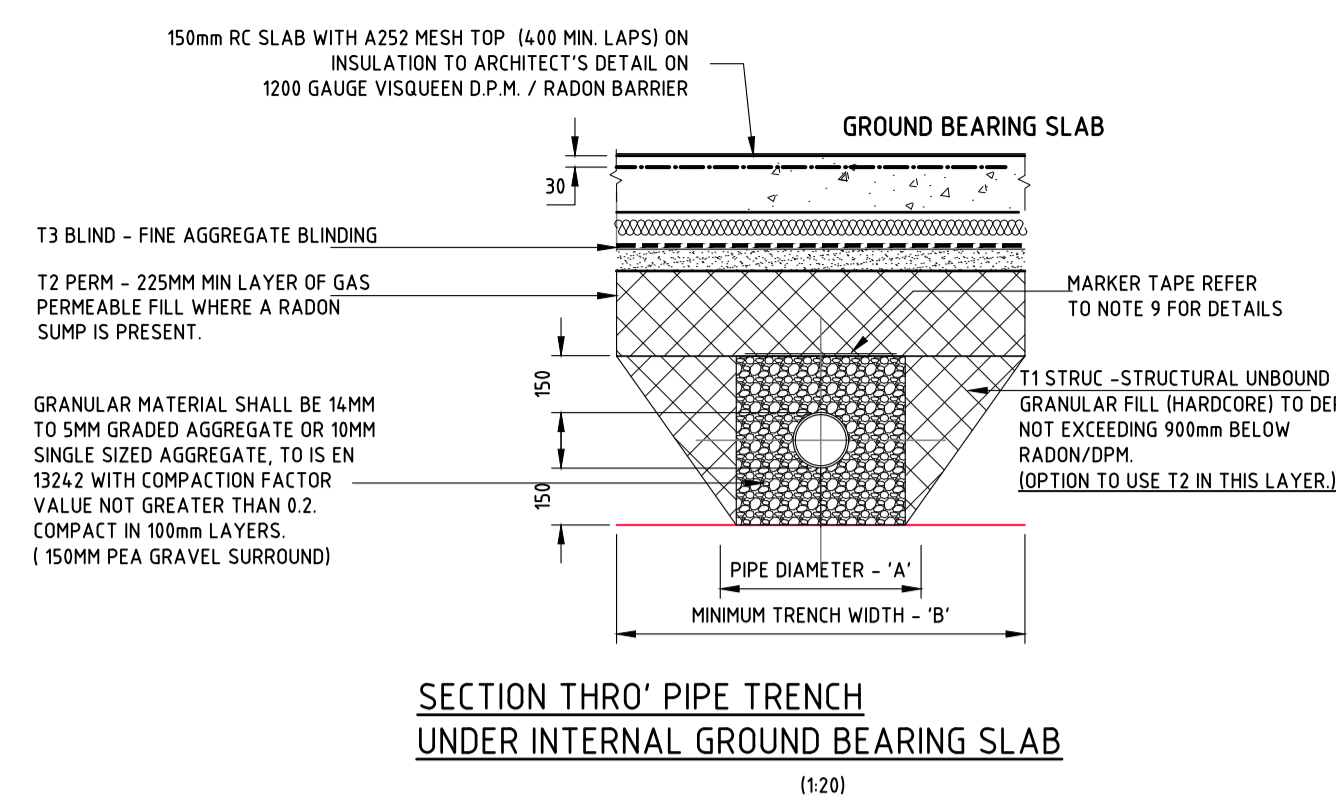
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& SuDS PROPOSAL

SCALE AT A1:	DATE:	DRAWN:	CHECKED:
AS SHOWN	JULY '22	GC	
PROJECT NO:	DRAWING NO:	REVISION:	
22021	11	A	

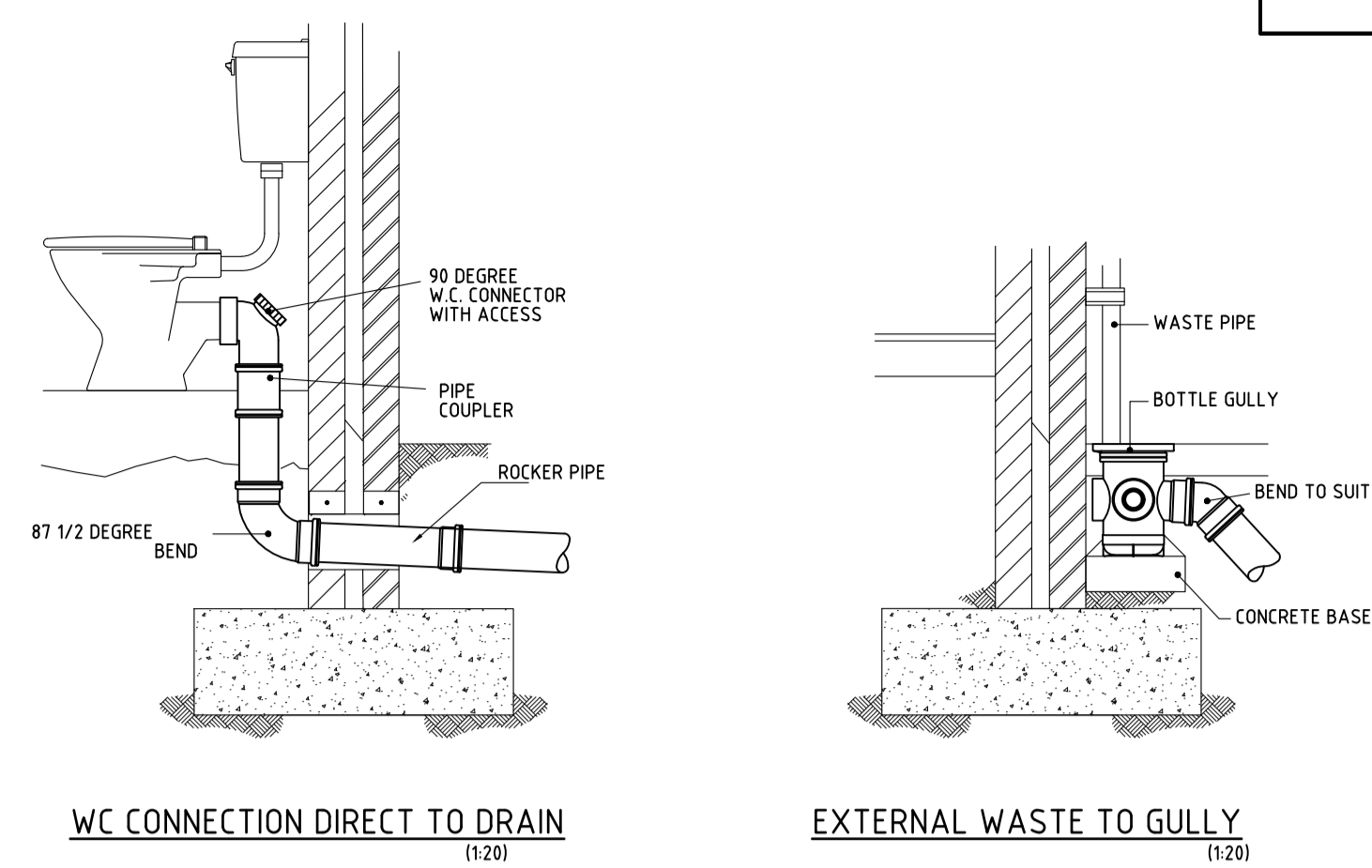


SECTION THRO' PIPE TRENCH UNDER ROAD /PAVED AREAS. TRENCH BACKFILL AND BEDDING DETAILS

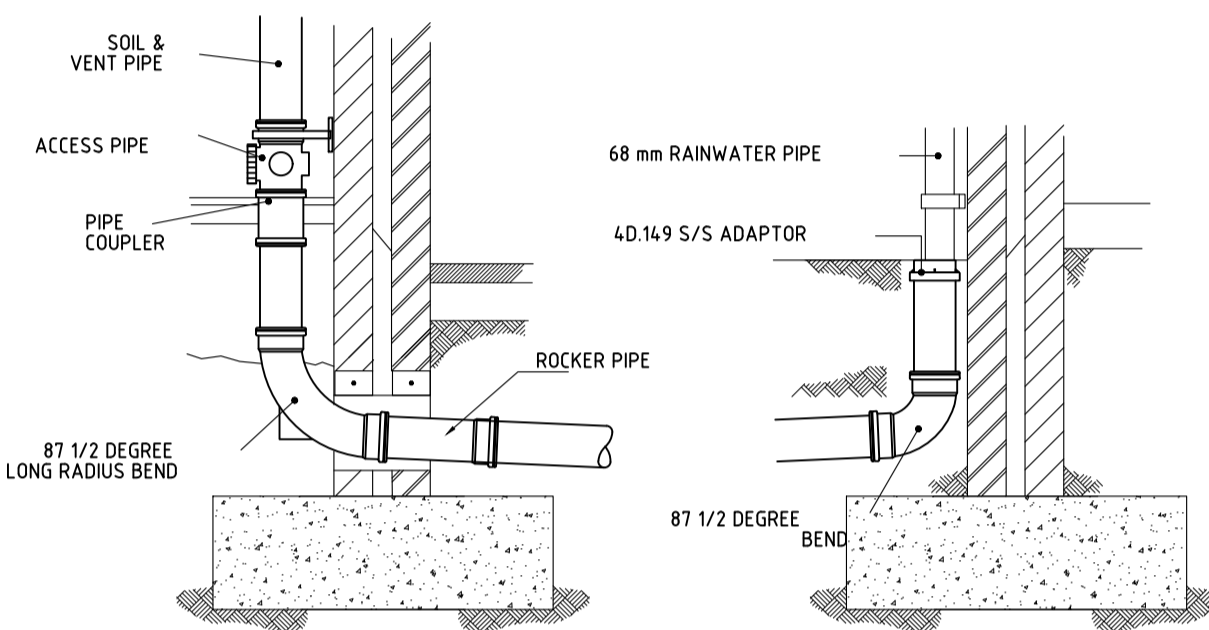
PIPE DIAMETER 'A' (mm)	TRENCH WIDTH 'B' (mm)
100	300
150	400
200	500
250	600
300	700
350	800
400	900
450	1000

PIPE DIAMETER 'A' (mm)	DEPTH OF BEDDING 'C' (mm)
100	100
150 - 450	200

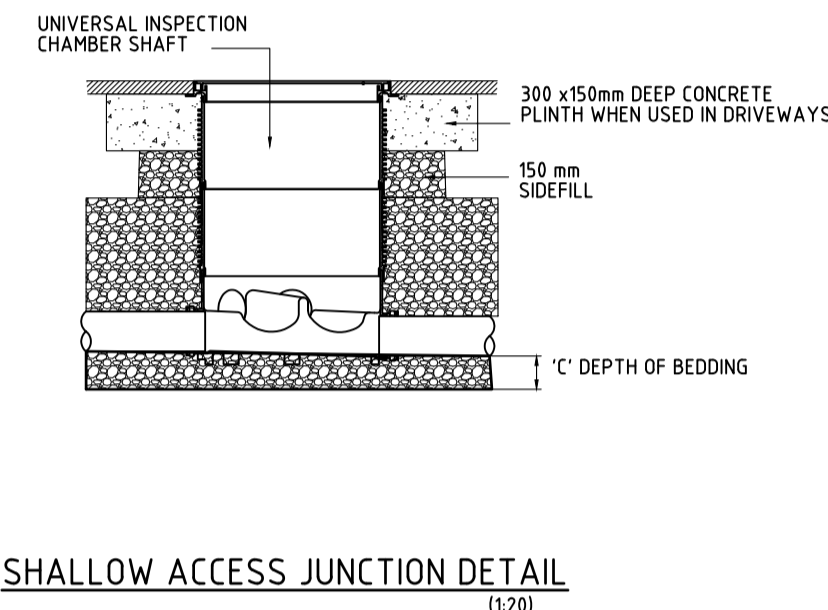
- TRENCH BACKFILL AND BEDDING NOTES:-**
- ALL DIMENSIONS ARE IN MILLIMETERS (mm) UNLESS NOTED OTHERWISE.
 - THE MINIMUM DEPTH OF COVER FROM THE FINISHED SURFACE TO CROWN OF GRAVITY PIPES WITHOUT PROTECTION SHOULD BE AS FOLLOWS.
 - GARDENS AND PATHWAYS WITHOUT ANY POSSIBILITY OF VEHICULAR ACCESS - DEPTH NOT LESS THAN 0.5. (THIS WOULD NORMALLY RELATE TO DRAINS IN PRIVATE PROPERTY, SHALLOW PIPES OF THIS NATURE ARE UNDESIRABLE AND SHOULD BE INSTALLED IN ACCORDANCE WITH THE CURRENT BUILDING REGULATIONS).
 - DRIVEWAYS, PARKING AREAS AND YARDS WITH HEIGHT RESTRICTIONS TO PREVENT ENTRY BY VEHICLES WITH A GROSS WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 0.75m.
 - DRIVEWAYS, PARKING AREAS AND NARROW STREETS WITHOUT FOOTWAYS (EG. MEWS DEVELOPMENTS) WITH LIMITED ACCESS FOR VEHICLES WITH A GREAT GROSS WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 0.9m.
 - DEPTH OF SEWERS IN GATED ESTATES SHALL BE SIMILAR TO THAT OUTLINED ABOVE.
 - AGRICULTURAL LAND AND PUBLIC OPEN SPACE - DEPTH NOT LESS THAN 0.9m.
 - OTHER HIGHWAYS AND PARKING AREAS WITH UNRESTRICTED ACCESS TO VEHICLES WITH A GROSS WEIGHT IN EXCESS OF 7.5 TONNES - DEPTH NOT LESS THAN 1.20m.
 - BACKFILL BELOW BUILDINGS AND FOR A DISTANCE OF 1200mm FROM A BUILDING SHOULD BE IN ACCORDANCE WITH IS EN12624 AND SR21014+A12016.
 - CLAUDE 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS IS TO BE USED AS BACKFILL MATERIAL WHERE THE SEWER MAIN IS LOCATED IN ROADS, FOOTPATHS OR WHEN THE NEAREST PART OF THE TRENCH IS WITHIN 1m OF THE PAVED EDGE OF THE ROADWAY. CLAUDE 808 IS TO BE COMPACTED AS PER CLAUSE 802 OF THE NATIONAL ROAD AUTHORITY SPECIFICATION OF IRISH WATER.
 - SELECTED EXCAVATED MATERIAL MAY BE USED IN GREEN-FIELD AREAS ABOVE GRANULAR PIPE SURROUNDED MATERIAL SUBJECT TO THE APPROVAL OF IRISH WATER. SELECTED FILL TO BE COMPACTED IN LAYERS OF 300mm DEPTH.
 - PIPE BEDDING SHALL COMPLY WITH WIS 4-08-02 AND IEN 4-08-01 GRANULAR MATERIAL SHALL BE 14mm TO 5mm GRADED AGGREGATE OR 10mm SINGLE SIZED AGGREGATE IS EN 12620. CONCRETE BED, HAUNCH & SURROUND, WHERE REQUIRED, SHALL BE TO STD-WW-08.
 - IN SOFT GROUND CONDITIONS (CBR < 5) THE MATERIAL SHOULD BE EXCAVATED AND DISPOSED OF IN ACCORDANCE WITH THE WASTE MANAGEMENT ACT AND CLAUDE 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS SHALL REPLACE THE EXCAVATED MATERIAL, WRAPPED IN GEO-TEXTILE WRAPPING.
 - IN GREEN FIELD AREAS, TYPE B BACKFILL (SELECTED EXCAVATED MATERIAL) WILL BE ALLOWED ABOVE THE SIDE HAUNCH GRANULAR MATERIAL IN THE CASE OF RIGID PIPES. A GRANULAR SURROUND OF A MINIMUM DEPTH OF 150mm ABOVE THE CROWN OF THE PIPE IS REQUIRED FOR FLEXIBLE PIPES. AND TYPE B MATERIAL MAY BE USED AS BACKFILL ABOVE THIS. ALL RISING MAINS IN GREENFIELD AREAS SHALL HAVE A MINIMUM COVER OF 300mm OF GRANULAR MATERIAL ABOVE THE EXTERNAL CROWN OF THE PIPE.
 - PIPES SHALL NOT BE SUPPORTED ON STONES, ROCKS OR ANY HARD OBJECTS AT ANY POINT ALONG THE TRENCH. ROCK SHALL BE EXCAVATED TO A DEPTH OF 150mm BELOW THE ACTUAL DEPTH OF THE TRENCH WITH THE VOID FILLED WITH CLAUDE 808 MATERIAL IN ACCORDANCE WITH THE NATIONAL ROADS AUTHORITY SPECIFICATION FOR ROAD WORKS. THE GRANULAR MATERIAL SHALL BE LAID ABOVE THIS VOID BACKFILL MATERIAL.
 - NON DEGRADABLE MARKER TAPE SHOULD BE INSTALLED AT TOP OF PIPE BEDDING LAYER. IN THE CASE OF NON METAL PIPE MATERIAL, THE MARKER TAPE SHOULD INCORPORATE A TRACE WIRE WHICH IS LINKED TO FITTINGS AND TERMINATED AT THE WASTE WATER PUMPING STATION AND THE DISCHARGE MANHOLE.



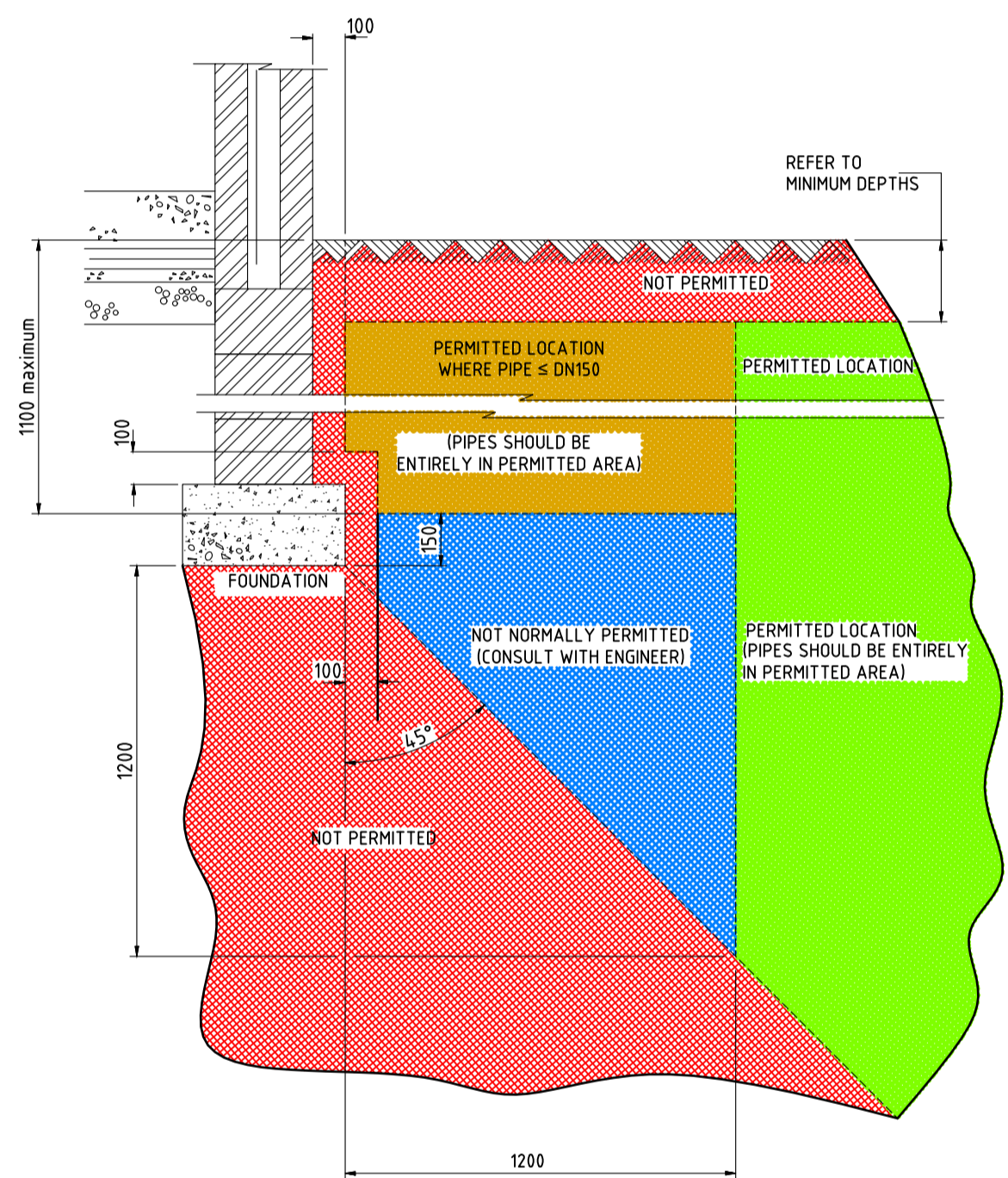
WC CONNECTION DIRECT TO DRAIN (1:20) EXTERNAL WASTE TO GULLY (1:20)



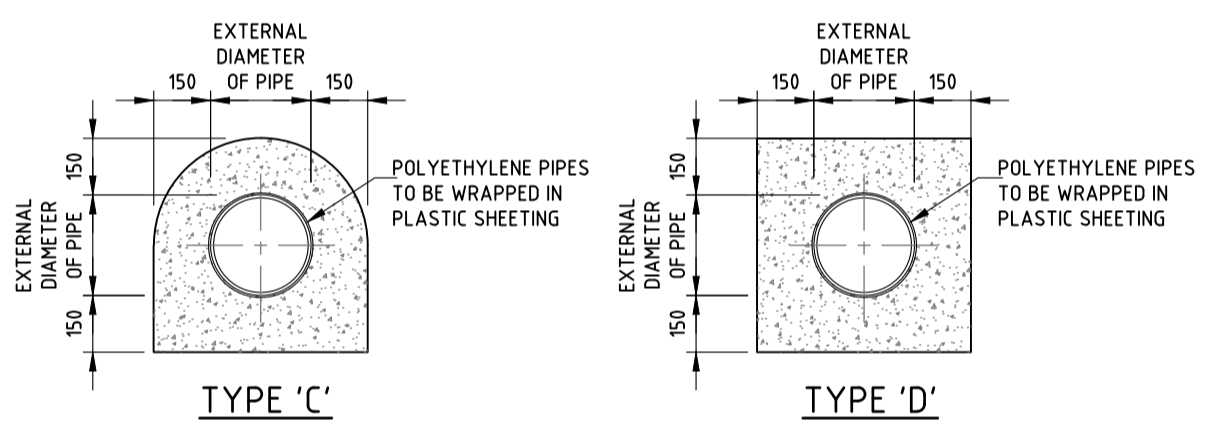
INTERNAL S.V.P. TO DRAIN (1:20) R.W.P. TO DRAIN (1:20)



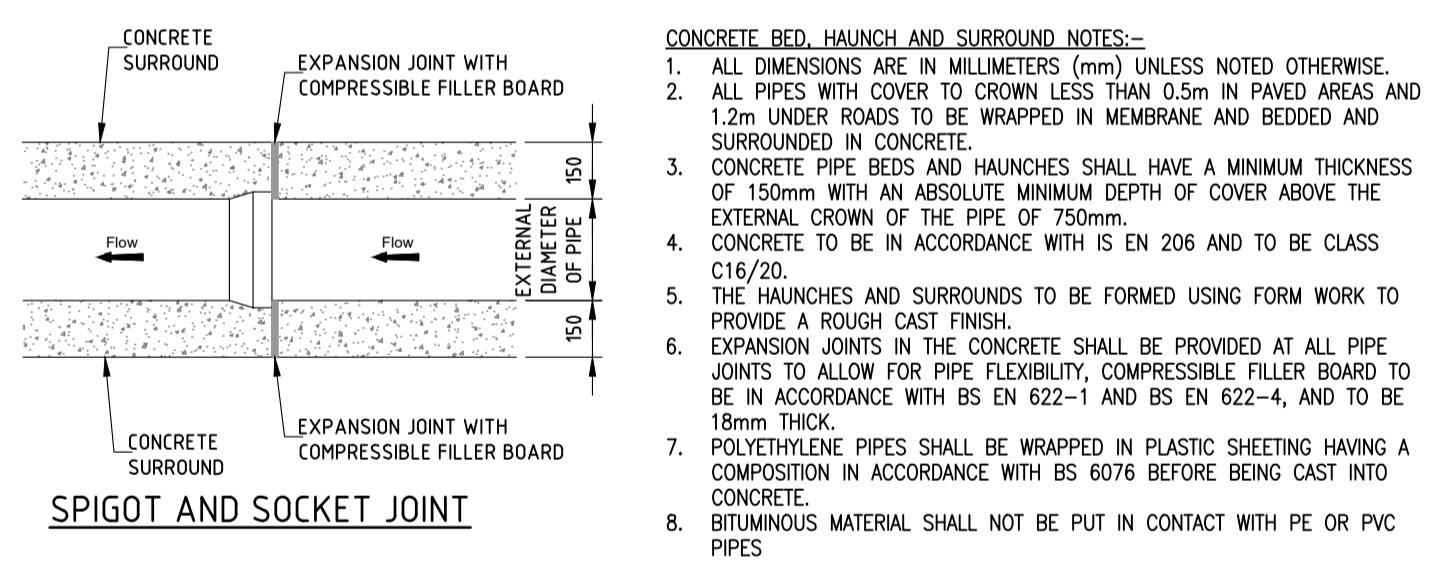
SHALLOW ACCESS JUNCTION DETAIL (1:20)



PERMITTED LOCATIONS OF DRAINAGE PIPES ADJACENT TO BUILDINGS (1:20)



TYPE 'C' TYPE 'D'



SPIGOT AND SOCKET JOINT CONCRETE BED, HAUNCH BED AND SURROUND DETAILS (1:20)

DRAINAGE NOTES

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- ALL INTERNAL MANHOLE COVERS TO BE DOUBLE SEALED RECESS SET-IN TYPE
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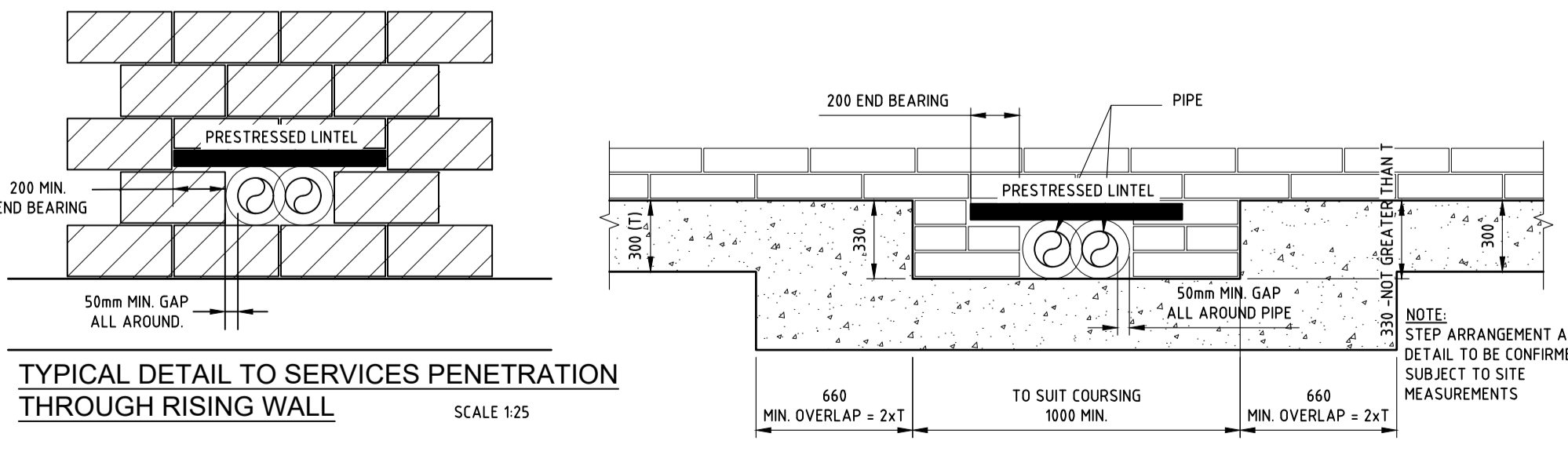
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Table 9 Minimum dimensions for access fitting and chambers

Type	Depth to (m)	Internal Sizes		Cover Sizes	
		length x width (mm x mm)	circular (mm)	length x width (mm x mm)	circular (mm)
Rodding eye		As drain but min 100			
Access fitting					
small	0.6 or less	150 x 100	150	150 x 100	150
large		300 x 100	-	300 x 100	-
Inspection chamber	0.6 or less	300 x 300	190*	300 x 300	190*
	1.0 or less	450 x 450	450	450 x 450	450†
Manhole	1.5 or less	1200 x 750	1000	600 x 600	600
	over 1.5	1200 x 750	1200	600 x 600	600
	over 2.07	1200 x 840	1200	600 x 600	600
Shaft	over 2.7	900 x 840	900	600 x 600	600

Notes:
 † For clayware or plastics may be reduced to 430 mm in order to provide support for cover and frame.
 * Drains up to 150 mm.



TYPICAL DETAIL TO SERVICES PENETRATION THROUGH RISING WALL/FOUNDATION SCALE 1:25

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22021	12	A	