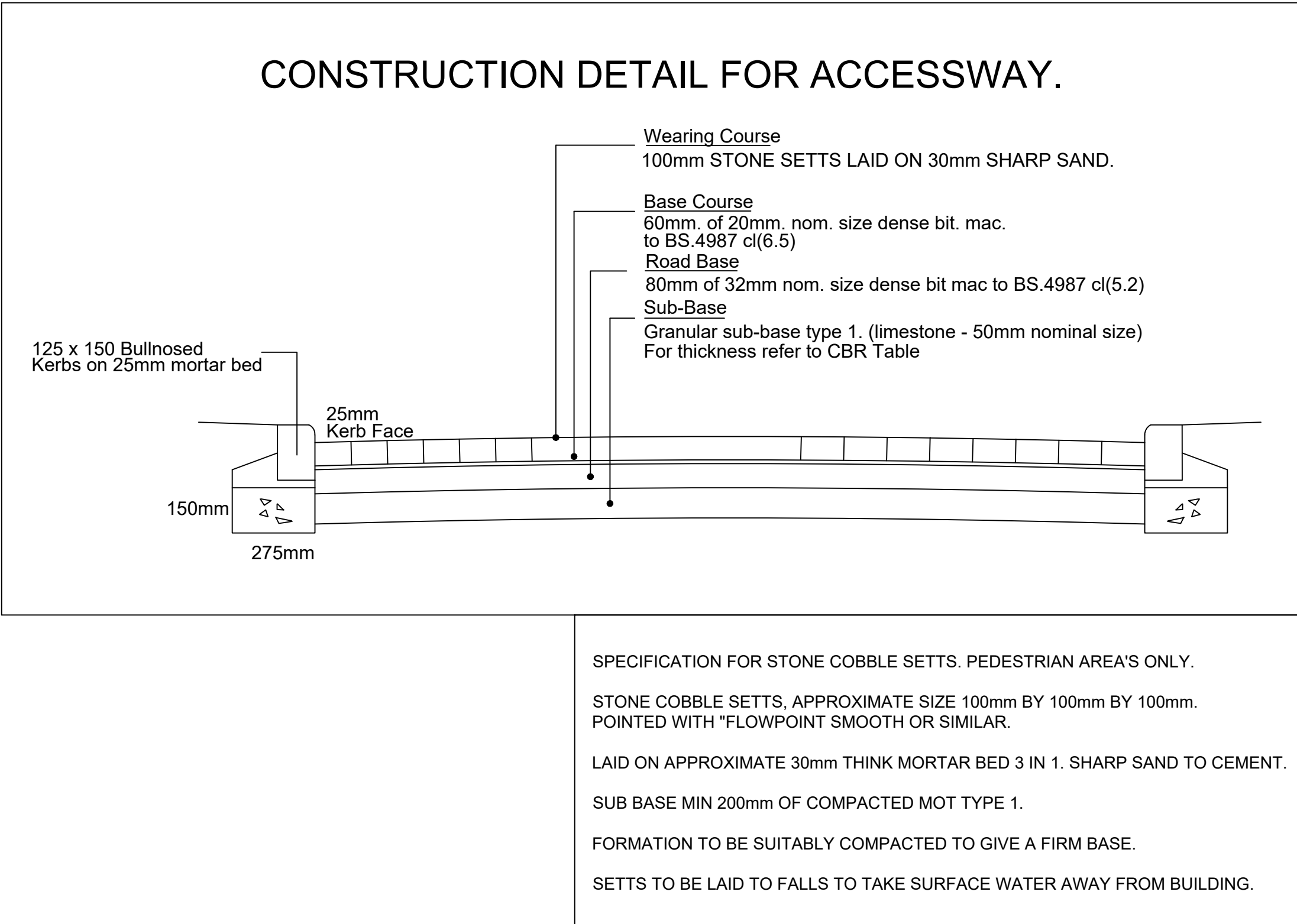
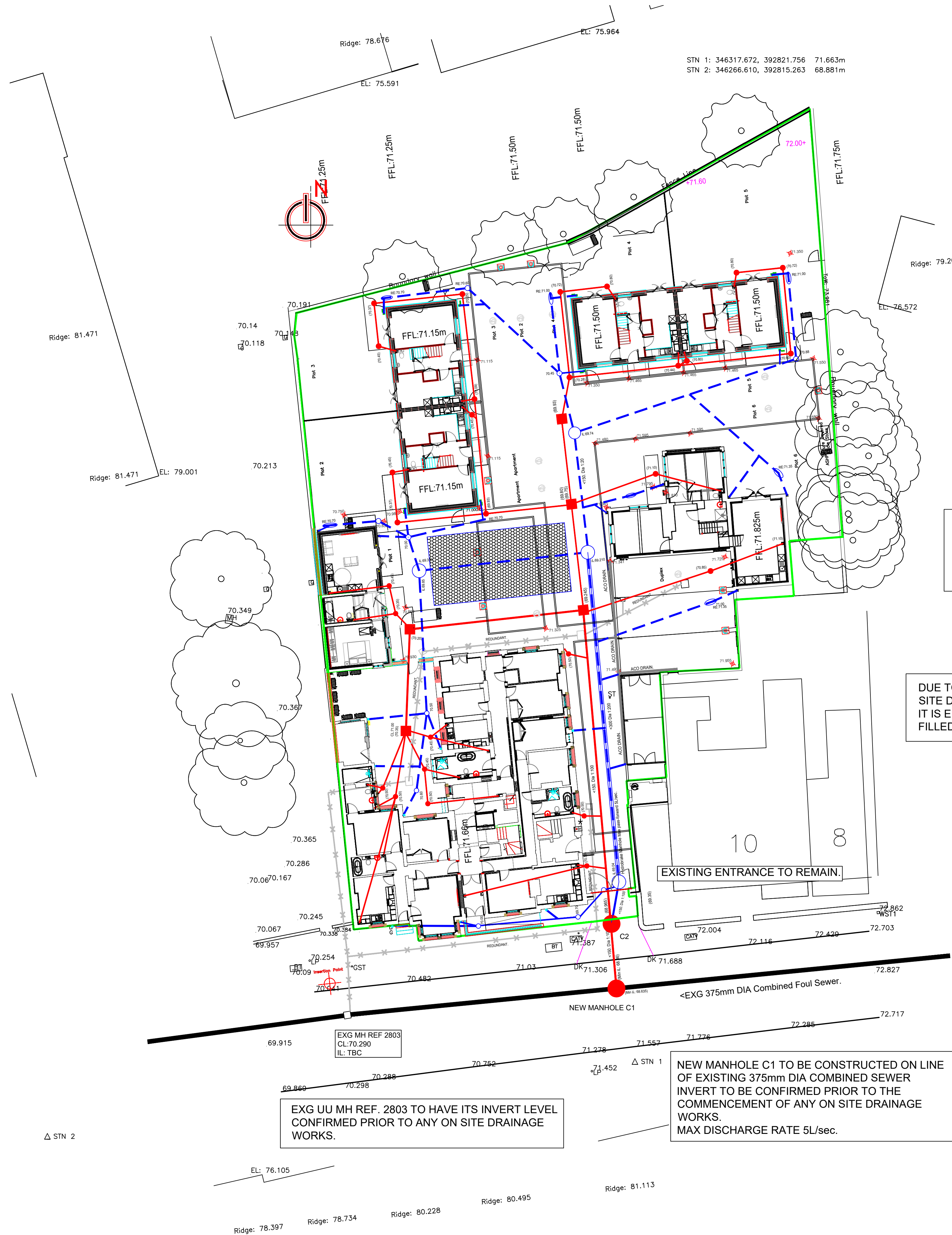




FLOW ATTENUATION CRATE STORAGE SYSTEM
POLYPIPE OR SIMILAR.
12m*6m*1.2m DEEP. GIVING 86.4m3 OF STORAGE.
BASE LEVEL 69.30m
PASS-FORWARD RESTRICTED TO 5L/sec.

DUE TO ITS POOR CONDITION THE EXISTING ON
SITE DRAINAGE IS NOT TO BE USED.
IT IS EITHER TO BE GRUBBED OUT OR GROUT
FILLED.

SPECIFICATION FOR STONE COBBLE SETTS. PEDESTRIAN AREA'S ONLY.
STONE COBBLE SETTS, APPROXIMATE SIZE 100mm BY 100mm BY 100mm.
POINTED WITH "FLOWPOINT SMOOTH OR SIMILAR.
LAID ON APPROXIMATE 30mm THINK MORTAR BED 3 IN 1. SHARP SAND TO CEMENT.
SUB BASE MIN 200mm OF COMPACTED MOT TYPE 1.
FORMATION TO BE SUITABLY COMPACTED TO GIVE A FIRM BASE.
SETTS TO BE LAID TO FALLS TO TAKE SURFACE WATER AWAY FROM BUILDING.

NOTES

All sewer works to comply with "Sewerage Sector Guidance" (SSG) for S185 Agreements.
All pipes to have class 5 granular bed and surround.
All sewer trenches and branch connections to be backfilled with suitable material in 225mm layers and well compacted.Type of backfill material to be agreed with adopting Authority.
All manholes to be constructed in accordance with United Utilities standard details.
All adoptable sewers:
150 dia to be Hespel or similar approved Extra Strength Vitified Clay.
225 dia to be Hespel or similar approved Extra Strength Vitified Clay.
300 dia to be Hespel or concrete class "W".
Connections from main sewers to first inspection chamber to be 150 dia.Foul and 150 dia Surface Water. Ditto gully connections.
All connections to sewers to be junctions and not saddles.
Manhole covers and frames to be ductile iron 675 x 675 clear square opening BS497 Grade "A" with ISI kitemark on cover.
Manhole covers in garden areas to be as above but grade "B".
First pipe out of manhole to be max. 600mm long connected to a short rocker pipe all as per Sewers for Adoption.
All pipe diameters given are internal including rising mains.
All invert levels of existing Foul and Surface Water systems are to be confirmed prior to the commencement of any on site drainage works. Any discrepancy in levels is to be reported immediately to Stephen Johnson Ltd.

PRIVATE DRAINAGE NOTES

All house drains to be 100mm Supersieve laid to a minimum gradient of 1:60 unless shown otherwise. All pipes laid on type "A" granular bedding.
All rainwater downspouts to discharge to trapped gullies. All foul gullies to be trapped back inlet type.
Should the contractor wish to use a plastic drainage system (this is to be checked if acceptable) it is to be installed in accordance with manufacturers recommendations and in compliance with the latest Building Regulations.
Inspection chambers in driveways to have grade "B" medium duty covers.
Connections to main sewers to be 150mm dia.Foul and 150mm dia.Surface Water.
Inspection chambers up to 600mm to be Polypropylene 315mm Dia.
Inspection chambers up to 1000mm to be Polypropylene. 450mm Dia.
Inspection chambers over 1000mm but less than 1500mm to be PC concrete sections, 750*675
Inspection chambers over 1500mm to be 1200mm Dia PC concrete manhole rings.
All drainage to comply with current Building Regulations Part H.

PRIVATE DRAINAGE KEY

- SOL AND VENT PIPE
- WASTE GULLY (BACK INLET TYPE)
- INSPECTION CHAMBER
- COMBINED INVERT LEVEL (METRES)

- RAINWATER PIPE
- ROOFING EYE

FOR ALL RWP & SWP'S PLEASE REFER TO THE SPECIFIC HOUSE / APARTMENT BLOCK PLAN FOR INFORMATION

ALL MANHOLES TO BE CONSTRUCTED IN ACCORDANCE WITH UNITED UTILITIES PLC. DEVELOPER SERVICE CONSTRUCTION DETAILS.

GRADING	NOMINAL BORE OF PIPE
A40	EXCEEDING 1350
A20	600-1350
A14	375-625
A10	300 & BELOW (PLASTIC)

C.D.M. REGULATIONS 2017
ALL DESIGN WORK HAS BEEN CARRIED OUT WITH HEALTH AND SAFETY ASPECTS GIVEN FULL CONSIDERATION WHEREVER POSSIBLE RISKS HAVE BEEN ELIMINATED FROM THE DESIGN. HOWEVER DUE TO THE VERY NATURE OF THIS TYPE OF WORK IT IS NOT POSSIBLE TO REMOVE ALL THE RISKS FROM THE DESIGN.
ONLY COMPETENT CONTRACTORS WHO HAVE A VALID SAFETY POLICY ARE TO BE EMPLOYED.
THEY SHOULD ALSO PROVIDE SATISFACTORY RESPONSES AT TENDER STAGE AS TO THE MANNER IN WHICH THEY WILL DEAL WITH THE ELEMENTS OF RISK INVOLVED IN THIS TYPE OF WORK AND IN PARTICULAR THOSE HIGHLIGHTED BELOW:-
1. TRENCH EXCAVATIONS IN EXCESS OF 1.2M DEEP.
2. GUARDING TO EDGES OF EXCAVATIONS TO PREVENT PEOPLE,MATERIALS AND VEHICLES FALLING INTO EXCAVATION.
3. GUARDING OF EXCAVATIONS OUTSIDE WORKING HOURS TO PREVENT UNAUTHORISED ACCESS.
4. UNDERMINING TO ADJACENT ROADS OR STRUCTURES.
5. CONFINED SPACE OPERATIONS.
6. DEALING WITH EXISTING SERVICES.

.E.	ACO Drain added.	18/10/2025
.D.	ACCESS WAY DETAIL AMENDED.	15/09/2025
.C.	Drainage updated to boundary.	09/09/2025
.B.	Up dated to new layout.	13/08/2025
.A.	Up dated to new layout.	24/11/2022

Rev	Description	Date
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IQ STRUCTURAL LTD.
CONSULTING ENGINEERS

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TEL: 07970 442597
TEL: 0781 772187

PRESCOT POLICE STATION.
DERBY STREET, PRESCOT L34 3LG.

PRIMA GROUP.

MAIN DRAINAGE LAYOUT.

Dwg No	REV.	.E.	Drawn	SMJ.
115/22/D100			Date	NOV 2022
			Scale	1:200 @ A1

Minimum Sub-base Thickness		
CBR Value	Without Geotextile below	With Geotextile below
Less than 2%	N/A	300
2% - 3%	325	225
3% - 5%	250	150
5% - 7%	150	N/A
7% -20%	100	N/A