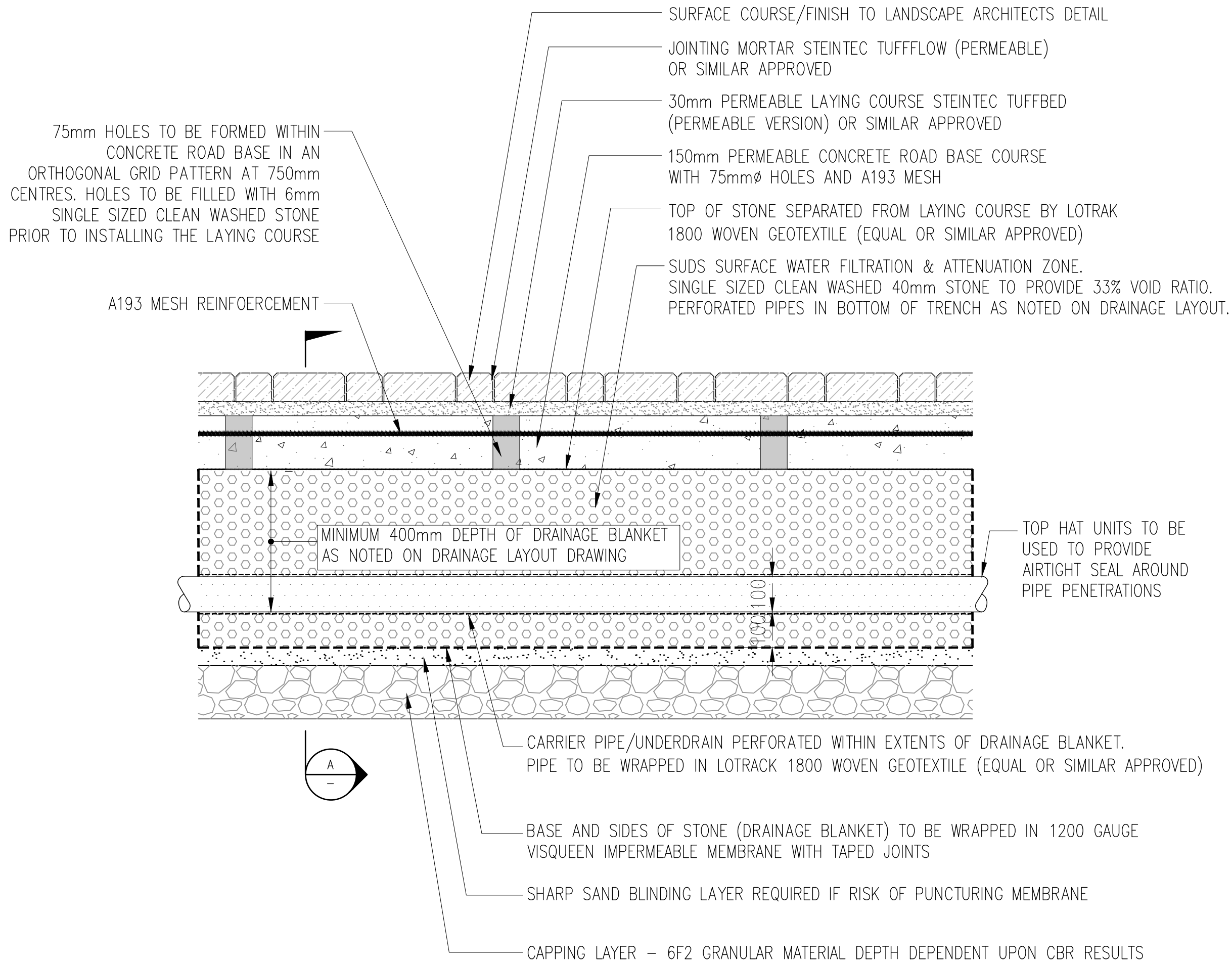


PRELIMINARY SUBJECT TO CONFIRMATION OF LANDSCAPE ARCHITECTS PROPOSED SITE LEVELS AND ALL FOUL WATER POP UP AND RAINWATER DOWNPIPE LOCATIONS AND FLOW RATES

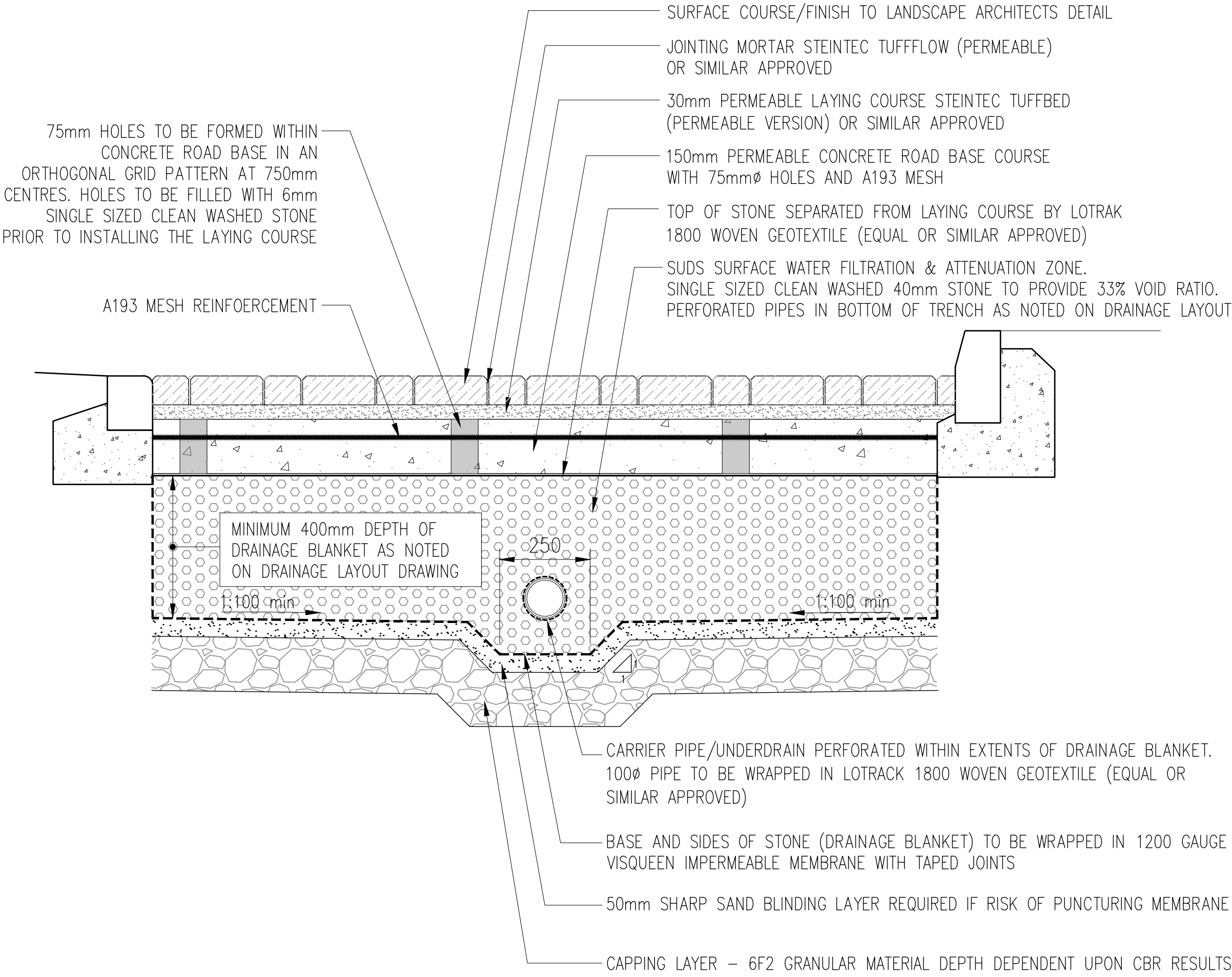
ALL PROPOSED DRAINAGE IS CURRENTLY PRELIMINARY SUBJECT TO DETAILED DRAINAGE DESIGN BEING COMPLETED.

PRELIMINARY SUBJECT TO CONFIRMATION OF UNITED UTILITIES AND MANCHESTER CITY COUNCIL ACCEPTANCE OF DISCHARGE CONNECTION LOCATIONS AND FLOW RATES

ALL PROPOSED PERMEABLE PAVING AREAS AND DETAILS PRELIMINARY ONLY SUBJECT TO DISCUSSIONS WITH LANDSCAPE ARCHITECT.



PERMEABLE PAVING TO LANDSCAPED AREAS NON-INFILTRATION



PERMEABLE PAVING TO LANDSCPAED AREAS NON-INFILTRATION (SECTION A-A)

GENERAL NOTES

- ALL DIMENSIONS ARE IN MILLIMETRES UNLESS OTHERWISE SHOWN
- ALL ADAPTABLE DRAINAGE SHALL BE CONSTRUCTED IN ACCORDANCE WITH "SEWERS FOR ADOPTION" 6TH EDITION 3. 4. 5. 6. 7. 8. 9. 10. 11.
- ALL EXISTING INVERT LEVELS TO BE CHECKED BY THE CONTRACTOR AT THE START OF WORKS AND ANY OTHER DISCREPANCIES NOTIFIED TO THE ENGINEER. ALL LEVELS ARE BASED ON TOPOGRAPHICAL SURVEY INFORMATION PROVIDED BY OTHERS.
- ALL MATERIALS TO BEAR THE RELEVANT B.S. KITEMARK AND COMPLY FULLY WITH THE SPECIFICATIONS. ALL CONCRETE & CONCRETE PRODUCTS MUST USE SULPHATE RESISTANT CEMENT (UNLESS THE SITE INVESTIGATION REPORT PROVES THAT SULPHATE ATTACK FROM SOILS AND GROUNDWATER WILL NOT OCCUR TO WITHSTAND A CLASS 3 CONDITION).
- ALL OPENING NOTICES ETC. AS REQUIRED UNDER HIGHWAYS ACTS ETC. ARE TO BE OBTAINED PRIOR TO COMMENCEMENT OF WORKS. ALL WORKS ARE TO BE INSPECTED BY L.A., NHBC OR UNITED UTILITIES AS APPLICABLE.
- WHERE "ULTRA RIB" UPVC PIPES (OR SIMILAR APPROVED) ARE USED IN ADAPTABLE DRAINAGE THEY SHALL STILL BE HANDLED AND LAID IN ACCORDANCE WITH THE SPECIFICATION AND GUIDANCE ISSUED BY THE HIGH PERFORMANCE PIPE ASSOCIATION. A CLASS S BED AND SURROUND MUST BE USED FOR SUCH PIPES.
- TRENCH BACKFILL IN HIGHWAYS / CAR PARKS TO WITHIN 1M OF HIGHWAY SHALL BE A SUITABLE GRANULAR MATERIAL ALL IN ACCORDANCE WITH SEWERS FOR ADOPTION CL. 3.3.4. BACKFILL MATERIAL IN OTHER AREAS SHALL BE SELECTED EXCAVATED MATERIAL FREE FROM STONES LARGER THAN 40MM, LUMPS OF CLAY OVER 100MM, TIMBER, FROZEN MATERIAL OR VEGETABLE MATTER.
- UPVC PIPES AND FITTINGS SHALL COMPLY WITH WIS 4-35-01. CLAY PIPES AND FITTINGS SHALL BE EXTRA STRENGTH TO BS EN 295 AND BS 65. CONCRETE PIPES AND FITTINGS SHALL COMPLY WITH BS 5911, PIPES SHALL BE CLASS H.
- A CLASS S BED MUST BE PROVIDED TO UPVC PIPES, A CLASS B BED MAY BE USED FOR V.C. AND CONCRETE PIPES.
- INSPECTION CHAMBERS SHALL BE:
TYPE A - 250mmØ UPTO 0.6m DEEP (GARDEN DRIVE AREAS ONLY)
TYPE B - 450mmØ 0.6 - 1.5m DEEP (GARDEN DRIVE AREAS ONLY)
TYPE C - 1200mmØ 1.2 - 3m DEEP
TYPE D - 450mmØ WITH 350mm CATCHPIT
- BACKFILL TO DRAINAGE TRENCHES ABOVE PIPE BEDDING AND SURROUND WITHIN ROAD AND CAR PARK AREAS TO BE GRANULAR FILL COMPLYING WITH CLASS 6F2 OR DOT TYPE 1 OR QUARRY SCALPING GRADED FROM 75mm DOWN.
- A CONCRETE SURROUND IS NOT NORMALLY REQUIRED TO MANHOLES UNLESS INSTALLED IN AREAS OF UNSTABLE GROUND. UNDER CONDITIONS OF FLOATATION OR WHERE SUBJECTED TO EXCEPTIONAL OR ECCENTRIC LOADS, IN WHICH CASE A 150mm SURROUND OF AT LEAST 20N/mm² CONCRETE SHOULD BE PROVIDED. ANY JOINTS SHOULD BE STAGGERED WITH THE PRECAST CONCRETE JOINTS.
- DOUBLE STEPS SHALL BE PLASTIC ENCAPSULATED CARBON TO BS EN 1247-2 MANHOLE STEPS. STEP IRONS AT 300ctrs. HORIZONTALLY & VERTICALLY MAY BE USED AS AN ALTERNATIVE TO DOUBLE STEPS.
- ALL WORK TO BE IN ACCORDANCE WITH "SEWERS FOR ADOPTION SIXTH EDITION" AND UNITED UTILITIES WATER PLC'S STANDARD CONSTRUCTION DETAILS

P01	07.07.2020	RIBA STAGE 3 ISSUE (DEVELOPED DESIGN)	JRS	DJS	DJS
REV	DATE	DESCRIPTION	BY	CHK	APP

DRAWING STATUS:	PRELIMINARY
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CLIENT:	DOWNING
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ARCHITECT:	SIMPSON HAUGH & PARTNERS
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PROJECT:	FIRST STREET SOUTH MANCHESTER
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TITLE:	BELOW GROUND DRAINAGE PERMEABLE PAVING DETAILS
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STATUS:	PROJECT No:	PROJECT	ORIGINATOR	VOL/SYS	LEVEL	TYPE	ROLE	DRAWING No.	REV:
S2	219-215	FSS - AJP	-XX - 00	-DR -	C -	0008	P01		

SCALE @ A1:	DESIGNED:	DRAWN:	CHECKED:	APPROVED:	DATE:
N.T.S	JRS	JRS	DJS	DJS	JUL 2020

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