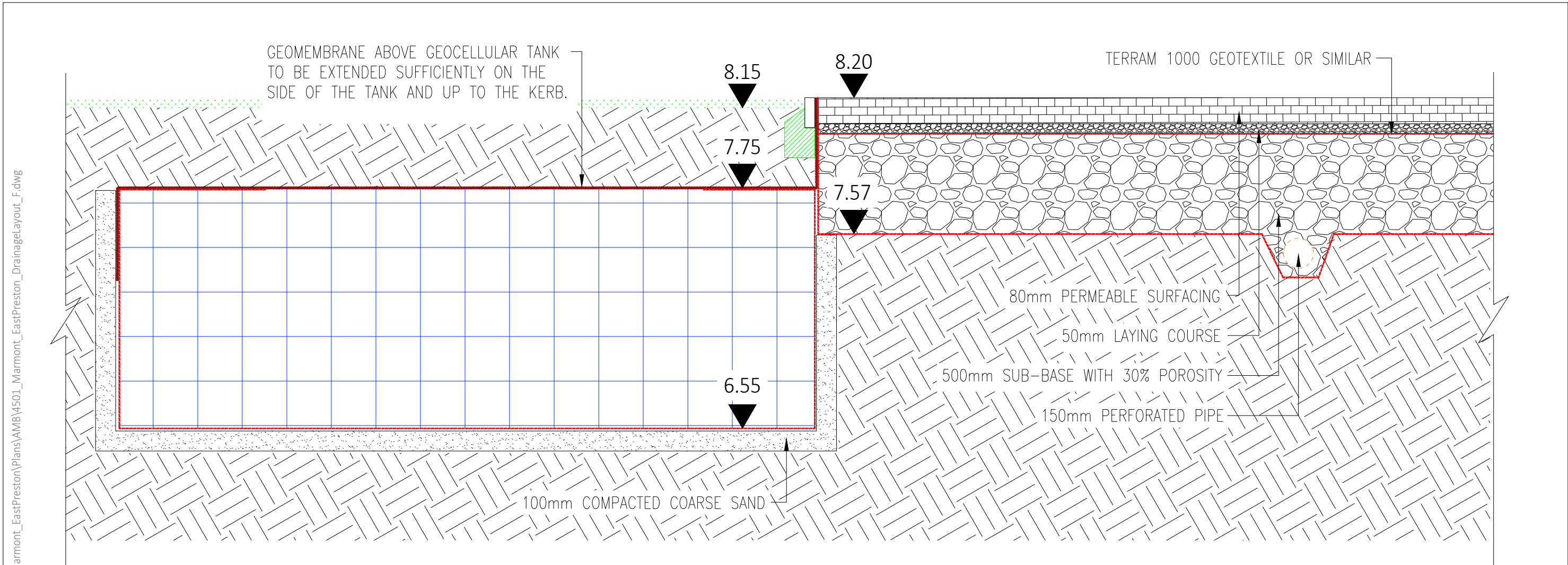
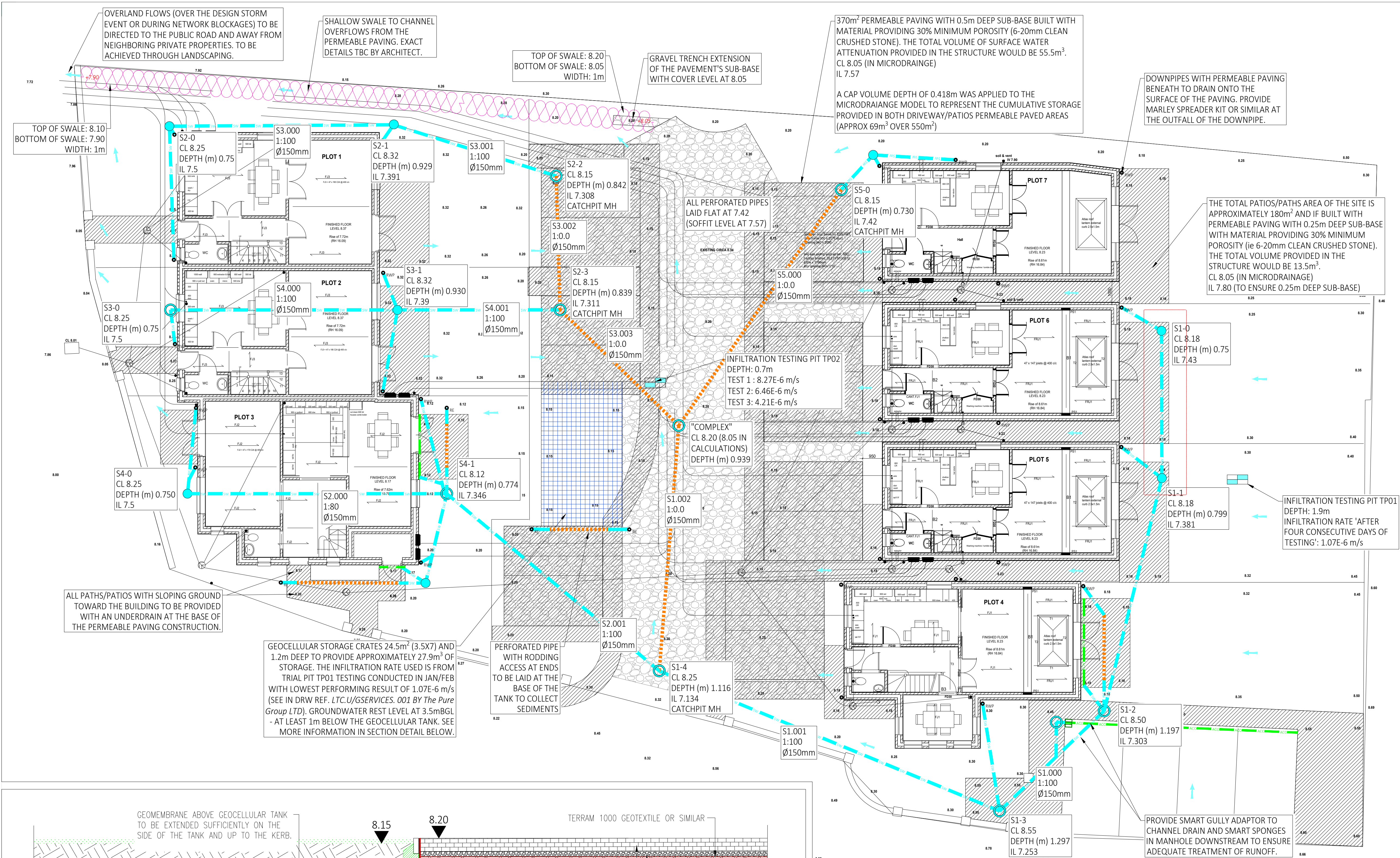




INDICATIVE PERMEABLE PAVING AND GEOCELLULAR SYSTEM DETAIL
(SCALE 1:20 - NOT FOR CONSTRUCTION)

Drainage scheme subject to confirmation of site levels, wider construction details and approval by LPA.

Water butts to be provided to each plot if feasible for rainwater reuse. Green roofs should be considered for the flat roof areas.

Clashes with foul drains and other services to be checked. The surface water network to be amended only with Ambiental's prior consent.

The lowest infiltration rate recorded at the site is 4.21E-6m/s in TP02 shallow testing pit located centrally across the site. Information obtained from page 28 in document LTC.GW.002 provided by the client.

The total hardstanding area of the proposed development is approximately 550m², including the driveway, parking, paths and patios. Given the low infiltration potential of the site's geology and relatively flat topography, it is recommended to construct all hardstanding areas with infiltrating permeable materials.

The total built (catchment) area of the site is approximately 0.116ha. Calculations assuming a permeable paving structure footprint of 550m² and infiltration rate of 4.21E-6m/s, the total volume requirement during the 1 in 100 year event + 40% climate change is approximately 67m³.

The volume requirement of 67m³ should be provided in the sub-base construction of the permeable paved areas. An indicative distribution of this volume is shown on the drawing, however alternative options should be assessed prior to construction to match the wider development requirements.

RWP locations to be further confirmed. RWPs with outfalls above permeable pavement to drain on its surface. These downpipes should be fitted with Marley spreader kit or similar to diffuse flows.

- 1. GENERAL
 - a. THIS DRAWING IS NOT TO BE SCALED, WORK TO FIGURED DIMENSIONS ONLY, CONFIRMED ON SITE.
 - b. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTURAL DRAWINGS, DETAILED SPECIFICATIONS WHERE APPLICABLE AND ASSOCIATED DRAWINGS IN THIS SERIES.
 - c. ANY DISCREPANCY ON THIS DRAWING IS TO BE REPORTED IMMEDIATELY TO THE PARTNERSHIP FOR CLARIFICATION.
 - d. THE CONTRACTOR IS RESPONSIBLE FOR ALL TEMPORARY WORKS AND FOR THE STABILITY OF THE WORKS IN PROGRESS.
 - e. CDM REGULATIONS 2015. ALL CURRENT DRAWINGS AND SPECIFICATIONS MUST BE READ IN CONJUNCTION WITH THE DESIGNER'S HAZARD RISK AND ENVIRONMENTAL ASSESSMENT RECORD. DESIGN HAS BEEN PRODUCED BASED ON INFORMATION PROVIDED BY THE CLIENT/PRINCIPLE DESIGNER AVAILABLE AT TIME OF ISSUE. CONTRACTOR TO REVIEW DRAWING AND SPECIFICATION IN CONTEXT WITH THE WIDER SITE AND SPECIFIC SITE INVESTIGATION, CONTAMINATION ASSESSMENT, ASBESTOS SURVEY, ENVIRONMENTAL SURVEY, LVO SURVEY AND ANY OTHER RELEVANT INFORMATION AND MANAGE RISKS RELATING TO THE WORKS OUTLINED IN THE DRAWINGS AND SPECIFICATION. PRINCIPLE CONTRACTOR TO MAKE DESIGNER AND CLIENT AWARE OF SITE SPECIFIC RISKS THAT MAY AFFECT THE DRAWING AND SPECIFICATION.
 - f. CDM REGULATIONS 2015. FOR GENERIC MAINTENANCE AND MANAGEMENT RISKS REFER TO CHAPTER 36 OF CIRIA 752 SUDS MANUAL FOR PROPRIETARY SYSTEMS. SEE MANUFACTURER'S MANAGEMENT AND MAINTENANCE DETAILS AND RISK ASSESSMENT WITH REGARDS TO MAINTENANCE OF PROPRIETARY SYSTEMS.

- 2. CONSTRUCTION NOTE
 - a. THE MAIN CONTRACTOR IS RESPONSIBLE FOR THE DESIGN OF ALL TEMPORARY WORKS, AND IS ALSO RESPONSIBLE FOR THE SAFE MAINTENANCE AND STABILITY OF EXISTING BUILDINGS AT ALL TIMES.
 - b. THE MAIN CONTRACTOR IS RESPONSIBLE FOR ALL OCCURRENCES OF GROUND WATER DURING THE CONSTRUCTION PERIOD.
 - c. ANY INFORMATION GIVEN REGARDING EXISTING UNDERGROUND SERVICES IS GIVEN IN GOOD FAITH AFTER CONSULTATION WITH THE RELEVANT AUTHORITY, HOWEVER ACCURACY IS NOT CERTAIN. THE MAIN CONTRACTOR IS RESPONSIBLE FOR CHECKING ALL INFORMATION ON SITE PRIOR TO WORK COMMENCING AND TAKING DUE CARE AND ATTENTION WHILST UNDERTAKING THE WORKS.
 - d. THE CONTRACTOR MUST COMPLY WITH ALL CURRENT LEGISLATION RELATING TO HEALTH & SAFETY.
 - e. ALL PRODUCTS SPECIFIED SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND INSTRUCTIONS. IF THERE ARE DISCREPANCIES BETWEEN THAT INFORMATION AND THE DETAILS ON ANY AMBIENTAL DRAWINGS, THE MANUFACTURER'S INSTRUCTIONS MUST BE USED.

- 3. BELOW GROUND DRAINAGE
 - a. PIPEWORK TO BE UPVC-U PIPES TO BS 4660 : 2000 AND INSPECTION CHAMBERS TO BS 7158 : 2001.
 - b. ALL ADAPTABLE DRAINAGE TO BE CONSTRUCTED IN ACCORDANCE WITH 'SEWERS FOR ADOPTION' 7TH EDITION AND THE RELEVANT COUNCIL DESIGN GUIDE.
 - c. ALL PRIVATE SURFACE WATER SEWERS TO BE LAID AT 1 IN 100 UNLESS OTHERWISE STATED ON THE DRAWING.
 - d. ALL PRIVATE FOUL WATER SEWERS TO BE LAID AT 1 IN 80 AT THE HEAD OF PIPE RUNS AND 1 IN 80 ELSEWHERE UNLESS OTHERWISE STATED.
 - e. ALL PRIVATE FOUL SEWER PIPES TO BE 150MM DIAMETER UNLESS OTHERWISE STATED ON THE DRAWING. ALL PRIVATE SURFACE WATER SEWER PIPES TO BE 100MM DIAMETER FROM DOWNPIPES AND 150MM DIAMETER ELSEWHERE UNLESS OTHERWISE STATED ON THE DRAWING.
 - f. ALLOW FOR RODDING ACCESS ABOVE GROUND WHERE RAINWATER DOWNPIPES DO NOT HAVE A DIRECT CONNECTION TO AN INSPECTION CHAMBER. EXISTING SEWER PIPE TO BE RE-USED TO BE SURVEYED AND LEVELLED PRIOR TO COMMENCEMENT OF THE DRAINAGE WORKS AND REFURBISHED IF NECESSARY.
 - g. CONNECTIONS TO AN ADOPTED SEWER ONLY TO BE MADE FOLLOWING APPROVAL FROM THE RELEVANT ADOPTING AUTHORITY.
 - h. ALL DRAINS, SEWER PIPES AND MANHOLES TO BE CLEANED AND TESTED FOR WATER TIGHTNESS ON COMPLETION OF CONSTRUCTION.

- 4. MANHOLE COVERS AND FRAMES
 - a. MANHOLE COVERS TO BE CLASS D400 IN HIGHWAYS, CLASS B125 IN FOOTWAYS AND VERGES, CLASS A15 IN NON-TRAFFICED AREAS.
 - b. MANHOLE COVER AND FRAME TO BE BEDDED AND SURROUNDED IN 1:3 MORTAR.

- LEGEND
 - PRIVATE SURFACE WATER DRAIN
 - PERFORATED SURFACE WATER DRAIN SLOT/CHANNEL DRAIN
 - TYPE 3 INSPECTION CHAMBER
 - TYPE 4 INSPECTION CHAMBER
 - RODDING EYE
 - MAIN STORAGE AREA
 - ATTENUATION SYSTEM
 - OVERLAND FLOW ROUTE

C	26.07.2019	SD	AMENDED TO SUIT LPA'S REQUIREMENTS. SEE REVISION CLOUD.
B	22.07.2019	SD	AMENDED TO SUIT LPA'S REQUIREMENTS. SEE REVISION CLOUD.
A	12.07.2019	SD	AMENDED TO SUIT LPA'S REQUIREMENTS.

REV DATE CKD APPD BY DESCRIPTION

PRELIMINARY DRAWING
FOR INFORMATION ONLY. NOT FOR CONSTRUCTION.

Client
MARMONT DEVELOPMENTS LTD

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Project
9 LIME CLOSE TREE, EAST PRESTON, BN16 1JA
PROJECT NO. 4501

Drawing
SURFACE WATER DRAINAGE DESIGN
PROPOSED LAYOUT

Drawn by: SD Date: MAY-2019
Drawing No.: 4501-01 Revision: C

Drawing Scale: 1:100 @ A1
0 1m 2m 3m 4m 5m