

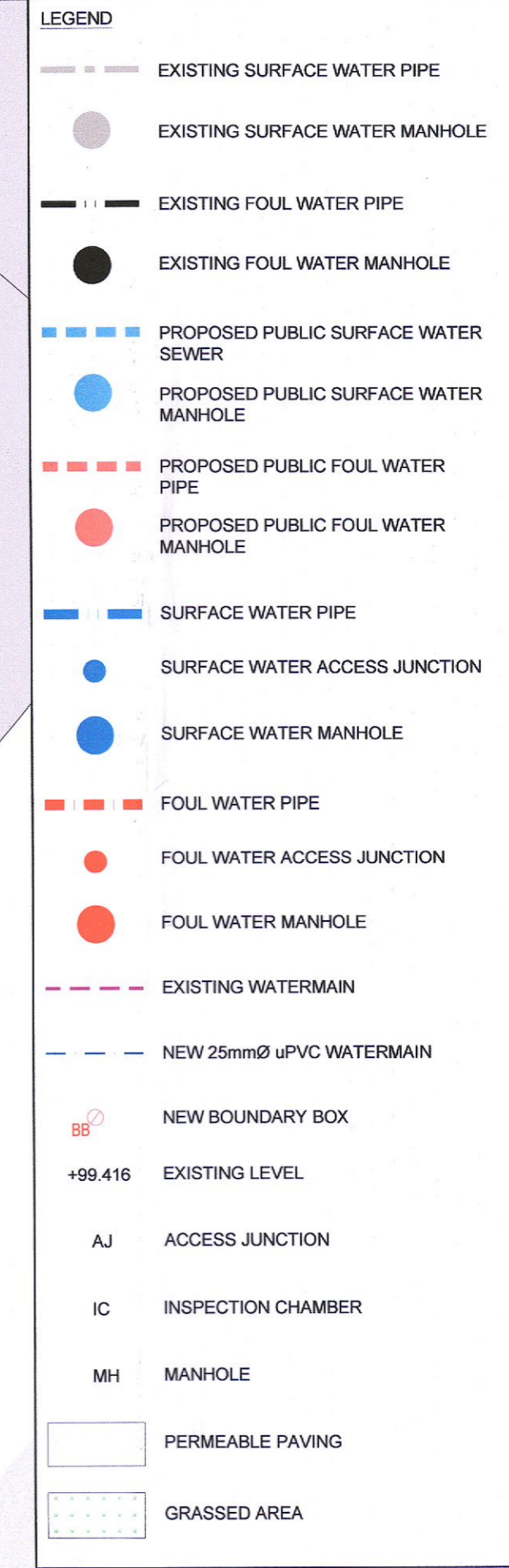
COPYRIGHT AND OWNERSHIP OF THIS DRAWING IS VESTED IN MABLE CONSULTING ENGINEERS. NO PART OF THIS DOCUMENT MAY BE REPRODUCED OR TRANSMITTED IN ANY FORM OR STORED IN ANY RETRIEVAL SYSTEM OF ANY NATURE WITHOUT THE WRITTEN PERMISSION OF MABLE CONSULTING ENGINEERS AS COPYRIGHT HOLDER EXCEPT AS AGREED FOR USE ON THE PROJECT FOR WHICH THE DOCUMENT WAS ORIGINALLY ISSUED. ©

ALL RIGHT RESERVED BY THE LAW OF COPYRIGHT AND BY INTERNATIONAL COPYRIGHT CONVENTIONS ARE RESERVED TO MABLE CONSULTING ENGINEERS. ©

ORDNANCE SURVEY MAPS REPRODUCED UNDER LICENCE No. CYAL50260016 © ORDNANCE SURVEY IRELAND / GOVERNMENT OF IRELAND

- NOTES:**
- ALL DIMENSIONS ARE IN MILLIMETRES AND LEVELS IN METRES UNLESS NOTED OTHERWISE.
 - USE FIGURED DIMENSIONS ONLY. DO NOT SCALE. ALL DIMENSIONS TO BE CHECKED ON SITE AND CONFIRMED PRIOR TO COMMENCING WORKS. ANY ERROR OR DISCREPANCIES ARE TO BE REPORTED TO THE ENGINEER / ARCHITECT.
 - DRAWINGS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ENGINEERS, ARCHITECTS AND SERVICE ENGINEERS DRAWINGS AND SPECIFICATIONS.
 - ALL WORKS TO BE CARRIED OUT IN ACCORDANCE WITH PLANNING GRANT CONDITIONS, CURRENT BUILDING REGULATIONS AND GOOD BUILDING PRACTICE.
 - ALL WASTEWATER DRAINAGE DETAILS AND CONSTRUCTION TO BE IN ACCORDANCE WITH IRISH WATER'S STANDARD DETAILS AND CODE OF PRACTICE FOR WASTEWATER INFRASTRUCTURE (DOCUMENT NO. IW-CDS-5030-01 & IW-CDS-5030-03).
 - ALL WATER INFRASTRUCTURE DETAILS AND CONSTRUCTION TO BE IN ACCORDANCE WITH IRISH WATER'S STANDARD DETAILS AND CODE OF PRACTICE FOR WATER INFRASTRUCTURE (DOCUMENT NO. IW-CDS-5020-01 & IW-CDS-5020-03).
 - PIPE SPECIFICATION
 - A. PIPE UNDER STRUCTURES
 - PIPES UNDER STRUCTURES TO BE CONCRETE ENCASED WITH 150mm 3500 CONCRETE SURROUND
 - CONCRETE ENCASEMENT IS TO EXTEND 500mm PAST STRUCTURE
 - B. SURFACE WATER
 - PIPES TO BE IN COMPLIANCE WITH BS 4660 AND BS EN 1401 PART 1
 - TO BE IN COMPLIANCE WITH PART H, 2010 OF THE BUILDING REGULATIONS
 - SURFACE WATER DRAINAGE TO COMPLY WITH THE CURRENT VERSION OF THE "GREATER DUBLIN REGIONAL CODE OF PRACTICE FOR DRAINAGE WORKS"
 - C. WATER SERVICE CONNECTION
 - BOUNDARY BOX WITH INTEGRAL STOP-COCK AND WATER METER AS PER IRISH WATER'S SPECIFICATION
 - PIPES UNDER ROADS WITH COVER LESS THAN 900mm ARE TO BE CONCRETE ENCASED.

NOTE:
RED LINE OMITTED FOR CLARITY PURPOSES



(A) SUDS AND DRAINAGE SYSTEM DESIGN:

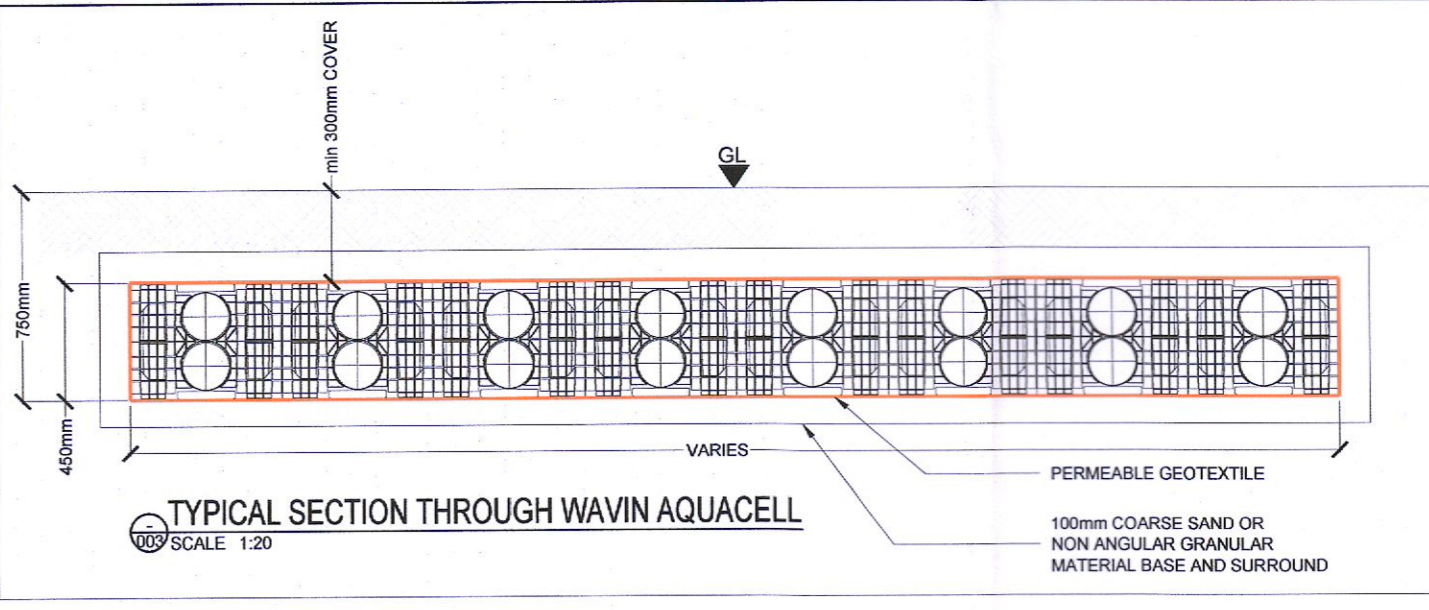
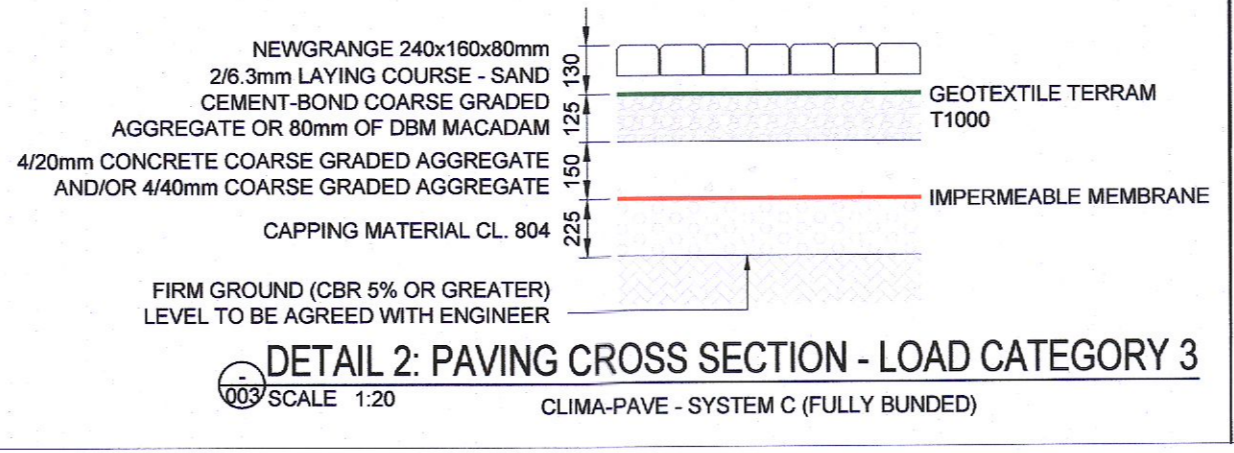
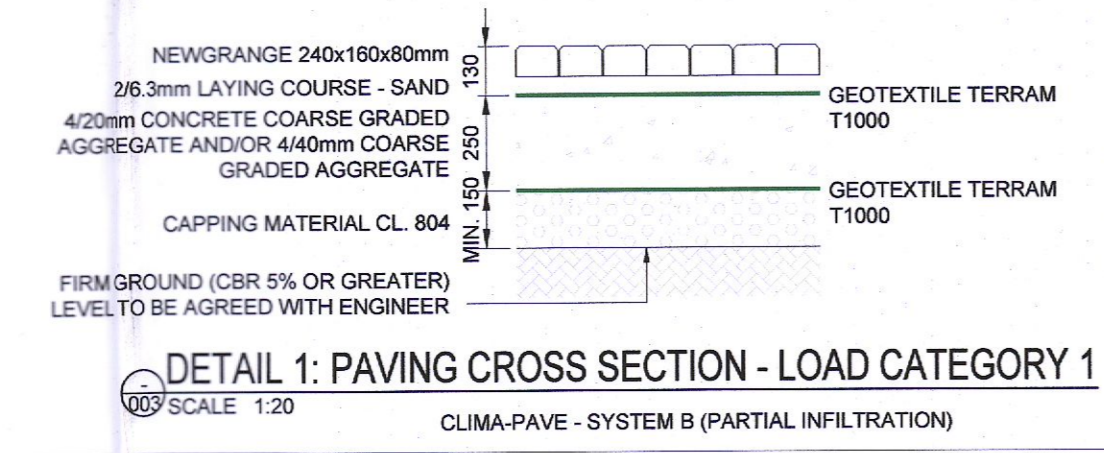
BOTH HOUSES (EXISTING AND PROPOSED) HAVE BEEN DESIGNED TO HAVE SEPARATE AND INDEPENDENT SURFACE WATER DRAINAGE AND SUDS MEASURES.

- THE SUDS MEASURES AND THE SURFACE WATER DRAINAGE SYSTEM WILL FUNCTION IN THE FOLLOWING MANNER:-
 - PERMEABLE PAVING
 - THE PERMEABLE PAVING AREAS DRAIN BY SURFACE WATER SOAKING DIRECTLY INTO THE SOIL BELOW.
 - THE SURFACE WATER DRAINS THROUGH THE PAVING BLOCK JOINTS THESE JOINTS MUST BE KEPT CLEAN FOR GOOD OPERATION
 - WATER BUTT
 - THE WATER BUTT COLLECTS RAINWATER FROM THE ROOF AND PROVIDES WATER STORAGE FOR USE IN THE GARDEN
 - PROPER USE OF THE WATER BUTT WILL REDUCE THE VOLUME OF PUBLIC WATER SUPPLY FOR GARDENING
 - STORM WATER STORAGE AND FLOW CONTROL
 - STORMWATER STORAGE IS PROVIDED BY A WAVIN AQUACELL (OR SIMILAR APPROVED). THIS STORAGE CHAMBER PROVIDES SURFACE WATER STORAGE IN TIMES OF HIGH VOLUMES OF RAINFALL
 - STORMWATER FLOW CONTROL IS PROVIDED BY A HYDROBRAKE FLOW CONTROL DEVICE SET TO 0.4/s (OR SIMILAR APPROVED). THIS FLOW CONTROL DEVICE LIMITS THE VOLUME OF SURFACE WATER FLOWING FROM THE SITE IN TIMES OF HIGH RAINFALL
 - THE ROOFED AREAS AND FILTER DRAINS ARE CONNECTED TO THESE DEVICES VIA THE SURFACE WATER DRAINAGE NETWORK
 - THESE DRAINAGE SYSTEMS MUST BE KEPT CLEAN AND WELL MAINTAINED FOR GOOD OPERATION

(B) SURFACE WATER DRAINAGE INSPECTION AND MAINTENANCE PLAN

ACTIVITY	FREQUENCY	DESCRIPTION
REGULAR MAINTENANCE	MONTHLY	FOR NORMAL CARE OF SUDS FEATURES CARRY OUT THE FOLLOWING:
		<ul style="list-style-type: none"> > LITTER AND LEAVES PICKING > GRASS CUTTING > INSPECTION OF GULLIES, FLOW CONTROL DEVICE AND OTHER DRAINAGE ITEMS. BLOCKAGES AND DAMAGE ARE TO BE REMEDIATED AS PER THE OCCASIONAL AND REMEDIAL MAINTENANCE ITEMS BELOW.
OCCASIONAL MAINTENANCE	ANNUALLY	<ul style="list-style-type: none"> > CLEAN SILT AND DEBRIS FROM SILT TRAPS > CARRY OUT SUCTION SWEEPING OF PERMEABLE PAVING TO ENSURE JOINTS ARE FREE FROM SILT AND DEBRIS > INSPECT VEGETATION AROUND THE SITE WHICH MAY IMPACT THE SUDS DRAINAGE MEASURES. CUT BACK VEGETATION WHERE REQUIRED. > CARRY OUT AND OVERALL INSPECTION OF THE SURFACE WATER DRAINAGE SYSTEM INCLUDING: <ul style="list-style-type: none"> - GUTTERS AND DOWN PIPES - GULLIES AND DRAINAGE CHANNELS - PERMEABLE PAVING - DRAINAGE CHAMBERS AND SILT TRAPS, INCLUDING MAINTENANCE ACCESS CHAMBERS TO THE WAVIN AQUACELL STORAGE CHAMBER (OR SIMILAR APPROVED)
		<ul style="list-style-type: none"> REPAIR DRAINAGE ITEMS WHICH ARE NOT FUNCTIONING PROPERLY OR AT RISK OF NOT FUNCTIONING PROPERLY. THIS MAY BE DUE TO NORMAL WEAR AND TEAR, A POLLUTION EVENT, A STORM EVENT, ACCIDENTAL BLOCKAGE, POOR CONSTRUCTION, OR VANDALISM. REINSTATE DRAINAGE MEASURES TO MEET THE REQUIREMENTS OF THIS DRAINAGE DESIGN.

- PERMEABLE PAVING**
- PAVING TO BE KILSARAN CLIMA-PAVE (OR SIMILAR APPROVED)
 - PAVING BUILD-UP AT THE REAR OF THE HOUSES IS TO BE LOAD CATEGORY 1
 - PAVING BUILD-UP AT THE FRONT OF THE HOUSE IS TO BE LOAD CATEGORY 3
- LOAD CATEGORY**
- LOAD CATEGORY NO. 1 NO LARGE GOODS VEHICLES, FOOTWAY WITH ZERO-VEHICLE OVERRUN
 - LOAD CATEGORY NO. 3 ONE LARGE GOODS VEHICLE PER WEEK, PARKING AREA TO RESIDENTIAL DEVELOPMENT



REV.	DESCRIPTION	PROD.	VERIF.	APPR.	DATE
P3	ISSUED FOR PLANNING - DETAILS ADDED	ER	BMG	BMG	04/08/22
P2	ISSUED FOR PLANNING - ATTENUATION TANK SIZE REVISED	ER	BMG	BMG	04/08/22
P1	ISSUED FOR PLANNING	ER	BMG	BMG	03/08/22

PLANNING

Mable
Consulting Engineers
T: 01-216-2956 E: info@mable.ie W: www.mable.ie

ARCHITECT: ARCHITECTS WORKSHOP Ltd.

PROJECT: PROPOSED DRAINAGE DESIGN AT 1 FONTHILL PARK

TITLE: PROPOSED DRAINAGE AND SITE LAYOUT PLAN

DATE: 29/07/2022	SCALE: 1:100 @ A1	REV
DESIGNER: ER	DRG. No.	
PRODUCER: BMG		
VERIFIER: BMG	22736-003	P3
APPROVER: BMG		