PROPOSED IMPERMEABLE AREAS		
MH REFERENCE	HATCH	AREA (Ha)
S1.00		0.012
S1.01		0.005
S2.02 / RISING MAIN		0.210
	TOTAL	0.227

NOTES:

1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RENAISSANCE, ARCHITECTS, LANDSCAPE ARCHITECTS AND BUILDING SERVICES ENGINEERS DRAWINGS.
2. REFER TO DRAWING STM-REN-XX-FN-DR-C-01103 FOR BELOW GROUND DRAINAGE PLAN
3. THIS DRAWING IS INTENDED TO COMMUNICATE THE PROPOSED IMPERMEABLE AREAS WHICH HAVE BEEN ACCOUNTED FOR WITHIN THE BELOW GROUND DRAINAGE DESIGN.

MH 6090
CL 35.370
IL 32.890 TBC

INDICATES EXISTING CONNECTION TO PUBLIC SEWER. MANHOLE AND PIPE TO BE SURVEYED TO CONFIRM CONNECTIVITY AND CONDITION. ALLOW FOR MANHOLE TO BE REBUILT AND PIPE REPAIRS SUBJECT TO CONDITION REPORT. COVER TO BE REPLACED TO SUIT LANDSCAPE PROPOSALS.

MH 2
CL: 35.580
IL: TBC

1500 @ 1:60

S1.00
450Ø PPIC
CL: 35.515
IL: 34.450

F1.01
900Ø PCC
CL: 35.640
IL: 34.115

ACO CHANNEL / SLOT DRAIN OR EQUIVALENT

F1.00
900Ø PCC
CL: 36.120
IL: 34.340

RISING MAIN FROM TANK AT B3 BASEMENT LEVEL SERVING THE AMENITIES AT B1 AND B2. PACKAGE PUMPING STATION TO PROVIDE 24HR STORAGE TO SUPPLIER DETAILS. RISING MAIN TO PASS THROUGH CAPPING BEAM PENETRATION AND DISCHARGE INTO BREAK CHAMBER. BREAK CHAMBER REQUIREMENTS TO BE CONFIRMED BY OTHERS.

BUILDING SERVICES ENGINEER/PUMP SPECIALIST TO CONFIRM DISCHARGE UNITS/FLOW RATES FROM PUMPING STATION.

RISING MAIN FROM B3 WASHDOWN GULLIES TO CONSOLIDATE WITH GRAVITY ABOVE GROUND DRAINAGE NETWORK.

ABOVE GROUND DRAINAGE TO PASS THROUGH CAPPING BEAM PENETRATION AND DISCHARGE INTO BREAK CHAMBER. BREAK CHAMBER REQUIREMENTS TO BE CONFIRMED BY OTHERS.

FOUL DISCHARGE UNITS REQUIRED TO SIZE DOWNSTREAM FOUL NETWORK

FOUL ABOVE GROUND DRAINAGE TO BE CONSOLIDATED AT UNDERSIDE OF LEVEL GROUND FLOOR. DRAINAGE TO PASS THROUGH CAPPING BEAM PENETRATION. REFER TO STM-REN-XX-ZZ-DR-S-02500 FOR CAPPING BEAM ELEVATIONS

RISING MAIN FROM B3 LEVEL TANK TO PASS THROUGH CAPPING BEAM PENETRATION. MAXIMUM FLOW RATE FROM PUMPING STATION TO BE LIMITED TO APPROXIMATELY 11.6 l/s REFER TO STM-REN-XX-ZZ-DR-S-02500 FOR CAPPING BEAM ELEVATIONS AND BUILDING SERVICES ENGINEER DRAWINGS FOR RISING MAIN DETAILS

PROPOSED HYDROBRAKE VORTEX FLOW CONTROL TO LIMIT FLOW TO 2.9l/s
DESIGN HEAD: 1.200m
SCL-0075-2900-1200-2900

S1.01
1050Ø PCC
CL: 35.700
IL: 33.965

S1.001 150Ø @ 1.94 %

S2.002 160Ø @ 1.100
BACKDROP IL: 35.058

S1.02
900Ø PCC
CL: 35.860
IL: 33.835

S2.02
900Ø PCC
CL: 36.180
IL: 35.140

ACO CHANNEL/SLOT DRAIN OR EQUIVALENT

PROPOSED MH
1200Ø PCC
CL: 35.650
IL: 32.300 TBC

2250 @ 1:100 (MIN)

UTILITY SCAN SURVEY TO BE UNDERTAKEN OR REVIEWED TO ESTABLISH LOCATION OF EXISTING DRAINAGE / SERVICES AROUND BUILDING PERIMETER.

PUBLIC SEWER DOWNSTREAM OF MH6907 TO BE DE-SILTED AND SURVEYED PRIOR TO CONSTRUCTION OF PRIVATE DRAINAGE NETWORK TO CONFIRM INVERT LEVEL.

PROPOSED NEW MANHOLE CONNECTION TO PUBLIC SEWER WITHIN BOOTLE STREET SUBJECT TO S106 APPLICATION WITH UNITED UTILITIES. TOTAL SURFACE WATER DISCHARGE RATE LIMITED TO 14.5 l/s

MH 6907
CL: 36.740
IL: 32.560 TBC

MH 6906
CL: 37.830
IL: 32.830 TBC

BOOTLE STREET

Rev:	Description:	Date:	By:	Chkd:
P01	STAGE 4	14.05.24	JB	AI

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Project:
ST MICHAELS, MANCHESTER

Drawing Title:
IMPERMEABLE AREAS PLAN

Status:
STAGE 4

Size:	Date:	Drawn by:	Designed by:	Checked by:
A1	MAY 24	JB	JB	AI

Scale: 1:125 | Project No: 2203-05

Project – Originator – Volume – Level – Type – Role – Number: STM-REN-XX-FN-DR-C-00060 | Revision: P01

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