



UU MANHOLE 6606

300 VC

OPTION 1

PERMEABLE PAVING REMOVED

OVERALL SURFACE WATER DISCHARGE RATE TO BE INCREASED TO 32L/S TO PREVENT ON SITE FLOODING.

DISCHARGE RATE BASED ON UTILISING A HYDROBRAKE FLOW CONTROL ON THE OUTFALL. AS-BUILT INFORMATION CONFIRMED A ACO Q-BRAKE HAS BEEN CONSTRUCTED ON SITE. THE INFORMATION TO REQUIRED TO MODEL ACO Q-BRAKE IS NOT READILY AVAILABLE TO CONSULTANTS.

ALP CONFIRM WITH MCC IF THE NEW DISCHARGE RATE IS ACCEPTABLE

TABLE 1

SITE	IMPERMEABLE AREA (HA)	FLOW RATE 1:1 YEAR (L/S)	FLOW RATES 1:2 YEAR L/S	FLOW RATE 1:30 YEAR (L/S)	FLOW RATE 1:100 YEAR (L/S)
EXISTING SITE	0.33	43.5	56.2	122.3	151
INCLUDING A 50% REDUCTION, IN ACCORDANCE WITH MCC					
PROPOSED SITE	0.33	22	28	61	76
UNITED UTILITIES REQUESTED MAX 1 IN 2 YEAR STORM EVENT					
FLOW LIMITED TO 22 L/S FOR EACH STORM EVENT UP TO 1 IN 100+40 CC TO MEET MCC AND UU REQUIREMENTS					

HYDROBRAKE TYPE MD-SHE-01492-2200-2000-2200

1875 BR

CONNECTION FROM BASEMENT

F5G
Ø450
CL:39.87
IL:36.17
13500 WITH INTERMEDIATE LANDING FOR BACKDROPS
BD1:37.96
BD2&3:38.40

SW 04 FLOW CONTROL CHAMBER
MD-SHE-0192-2200-2000-2200
Ø1800
CL39.82
IL38.06
FLOW RESTRICTED AS PER TABLE 1
HYDROBRAKE OVERFLOW PIPE

SW 05 Ø1200
CL39.85
IL38.01 INTERCEPTOR TRAP ON OUTLET PIPE

NEW INDIRECT CONNECTION TO UU SEWER S106 IS APPROVED (02.12.20)

NEW INDIRECT CONNECTION TO UU SEWER S106 IS REQUIRED

EXISTING INTERCEPTOR TO BE REMOVED

CONNECTIONS FROM EX GULLIES TO BE RETAINED

SHOULD BE SUSPENDED TOWARDS BUILDING EDGE

KEY - GROUND FLOOR

- SITE BOUNDARY (APPROXIMATE)
- EXTENT OF BASEMENT
- PUBLIC SURFACE WATER SEWER (APPROXIMATE)
- PUBLIC COMBINED SEWER (APPROXIMATE)
- EXISTING PRIVATE COMBINED DRAINAGE
- PROPOSED FOUL WATER DRAINAGE
- PROPOSED SURFACE WATER DRAINAGE
- PERFORATED SURFACE WATER PIPE
- SURFACE PIPE FROM CHANNEL
- PROPOSED COMBINED WATER DRAINAGE
- RISING MAIN FROM BASEMENT PUMP STATION
- PROPOSED GATIC 225 CHANNEL B125
- CONNECTION FROM OUTLET BOX TO TYPE 3 SUB BASE SERVICES - GAS
- SERVICES - ELECTRIC
- FLOW CONTROL CHAMBER
- PROPOSED SURFACE WATER ATTENUATION (SEE NOTE FOR DETAILS)
- TYPE 3 SUBBASE
- RWP RAINWATER PIPES
- G WALKWAY GULLY
- CDG CAVITY DRAINAGE GULLY (TRAPPED)
- SVP SOLVENT PIPE
- FG FLOOR GULLY (TRAPPED)
- BD BACK DROP
- ABB ABOVE BEAM
- BB BELOW BEAM
- PROPOSED FOUNDATION

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- ALL PRIVATE DRAINAGE WORKS TO BE IN ACCORDANCE WITH CURTINS DRAINAGE SPECIFICATION, 'CIVIL ENGINEERING SPECIFICATION FOR THE WATER INDUSTRY 7th EDITION', BS EN 752 2017 'DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS' AND THE BUILDING REGULATIONS APPROVED 'DOCUMENT H'.
- DO NOT SCALE THIS DRAWING. ANY AMBIGUITIES, OMISSIONS AND ERRORS ON DRAWINGS SHALL BE BROUGHT TO THE ENGINEERS ATTENTION IMMEDIATELY. ALL DIMENSIONS MUST BE CHECKED / VERIFIED ON SITE.
- DESIGN BASED ON TOPOGRAPHICAL SURVEY AND CCTV SURVEY INFORMATION AVAILABLE AT THE TIME OF THE DESIGN.

P01	ISSUED FOR INFORMATION	07.06.24	CS	ARR
Rev:	Description:	Date:	By:	Chkd:



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Status: **STAGE 5**

Project: **LONDON ROAD FIRE STATION**

Orig Title: **DRAINAGE STRATEGY
GROUND FLOOR
OPTION 1**

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	07/06/24	CS	CS	ARR
Scale:	1:200			
Project No:	Originator:	Volume:	Level:	Type:
060270	CUR	00	XX	SK
				C
				00001
				P01

Time & IP: 06/06/2024 - 06:03:00/06/27/20 - London Road Fire Station, Manchester/E - Drawings/CCL/10 Drainage/