LEGEND

100Ø PIPE SIZE AND DIRECTION OF FLOW

EXISTING SURFACE WATER

EXISTING FOUL WATER

EXISTING COMBINED WATER

PROPOSED SURFACE WATER

PROPOSED FOUL WATER

PROPOSED COMBINED WATER

ESW1 EXISTING SURFACE WATER MANHOLE

EFW1 EXISTING FOUL WATER MANHOLE

EFW1 EXISTING FOUL WATER MANHOLE

ECW1 EXISTING COMBINED WATER MANHOLE

SW1 PROPOSED SURFACE WATER MANHOLE

FW1 PROPOSED FOUL WATER MANHOLE

CW1 PROPOSED COMBINED WATER MANHOLE

SIC3 PROPOSED SURFACE WATER INSPECTION CHAMBER - TYPE 3 AS PER SFA7TH.

SIC4 PROPOSED SURFACE WATER INSPECTION CHAMBER - TYPE 4 AS PER SFA7TH

FIC3 PROPOSED FOUL WATER INSPECTION CHAMBER - TYPE 3 AS PER SfA7th.

FIC4 PROPOSED FOUL WATER INSPECTION CHAMBER TYPE 4 AS PER SFA7TH

CIC1 PROPOSED COMBINED INSPECTION CHAMBER

RWP EXISTING RAIN WATER PIPE

G EXISTING GULLY

SVP EXISTING SOIL VENT PIPE

RWP PROPOSED RAIN WATER PIPE

SVP PROPOSED SOIL VENT PIPE

RE PROPOSED RODDING EYE

G PROPOSED SURFACE WATER GULLY

G PROPOSED FOUL WATER GULLY

G PROPOSED COMBINED WATER GULLY

CHANNEL CHANNEL DRAIN 'ACO' OR SIMILAR APPROVED

GEOCELL PROPOSED SURFACE WATER ATTENUATION STORAGE - GEOCELL STRUCTURE

CELLULAR STORAGE
12m x 9m x 0.8m - TBC
CL 67.300 - TBC
TOP OF TANK 66.200
BASE 65.400

INDICATIVE LINE OF EXISTING SURFACE WATER DRAIN SERVING THE EXISTING BUILDING ON THE CORNER OF HYDE ROAD AND WELLINGTON STREET

EXISTING 375MM Ø CONNECTION TO EXTG 900mm CULVERT IN HYDE ROAD TO BE LINED. REFER TO DRAINAGE SURVEYS BY CLEARWAY AND LANES GROUP PLC IN 'APPENDIX F' OF DRAINAGE STRATEGY.

MH CW1
(1800 Ø - TBC)
CL 66.200
IL 63.540

MH S1
(2400Ø)
CL 68.732
IL 64.200

MH F1
13500
CL 68.500
IL 67.150

MH F2
(1200Ø)
CL 68.025
IL 66.675

MH F3
(1200Ø)
CL 67.700
IL 66.350

MH F4
1200Ø
CL 67.560
IL 66.200

MH F5
12000
CL 67.435
IL 66.050

MH F6
1500Ø
CL 66.500
IL 65.115

MH F7
1200Ø
CL 66.500
IL 65.450

MH S2
3000Ø
CL 67.970
IL 64.124

MH S3
(3000Ø)
CL 67.400
IL 64.071

MH S4
(1500Ø)
CL 66.400
IL 65.360
SILT SUMP

MH S5 (3000Ø)
HydroBreak 6.5l/s
CL 66.420
IL 64.020

MH S6
1500DIA - TBC
SILT SUMP

S1.000 1200 Ø 1/401

S1.001 1200 Ø 1/500

S1.002 1200 Ø 1/473

S1.003 150 Ø

S2.000 225 Ø

F.1.000 1500@1/56

F.1.001 1500@1/80 MIN

F.1.002 1500@1/80 MIN

F.1.003 150Ø @1/80 MIN

F.1.004 1500@1/80 MIN

F.1.005 1500@1/80 MIN

F 2.000 1500@1/80 MIN

PROPOSED DRAINAGE PLAN

SCALE 1:200

DO NOT SCALE FROM THIS DRAWING

THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER HBL DRAWINGS ISSUED FOR THIS PROJECT

DRAINAGE NOTES

1. SETTING OUT SHOULD BE UNDERTAKEN FROM ARCHITECT'S DRAWINGS AND DETAILS. DO NOT SCALE FROM THIS DRAWING.
2. ALL DRAINAGE WORKS TO BE IN ACCORDANCE WITH BS EN752: BRITISH STANDARD FOR DRAIN AND SEWER SYSTEMS OUTSIDE BUILDINGS AND THE BUILDING REGULATIONS, ALL WHERE RELEVANT.
3. THE ENGINEER IS TO BE NOTIFIED OF ANY DISCREPANCIES TO THE DETAILS SHOWN ON THE DRAINAGE AND ANY UNRECORDED CONNECTIONS NOT SHOWN ON THE DRAWINGS. A CCTV SURVEY OF ALL THE DRAINAGE SHOULD BE CARRIED OUT ON COMPLETION OF THE BUILDING WORKS AND PASSED ON TO THE CLIENT.
4. THE CONTRACTOR IS RESPONSIBLE FOR CHECKING DIMENSIONS AND LEVELS AND FOR CONFIRMING THE GIVEN LEVEL OF OUTFALL INTO PUBLIC SEWER, WATERCOURSE OR OTHER OOUTFALL
5. NEW PRIVATE PLOT DRAINAGE AND LATERAL DRAINS FOR SURFACE AND FOUL WATER TO BE 'OSMADRAIN' PVC-U 110mm GRAVITY DRAIN.
6. ALL PIPE BEDDING AND ENCASING TO BE IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND DETAILS, APPROPRIATE TO THE SITE CONDITIONS AND LOCATIONS USED. THERMOPLASTIC PIPES UNDER ROADS AND ACCESSWAYS WITH DEPTH OF COVERL LESS THAN 900MM, TO BE CONCRETE ENCASED.
7. ALL MANHOLES AND INSPECTOR CHAMBERS TO COMPLY WITH BSEN 752-3:1996 AND BUILDING REGULATION APPROVED DOCUMENT PART 'H' :2015.
8. MANHOLE COVERS TO COMPLY WITH BSEN 124. TYPE N - SUITABLE FOR LOAD CLASS B125 (PEDESTRIAN, CYCLIST AND GARDENS) TYPE HD - SUITABLE FOR LOAD CLASS D400 (CAR PARKS AND ROADS).
9. DRAINAGE CHANNELS TO BE ACO S-RANGE DRAIN CHANNEL SUPPLIED BY 'ACO TECHNOLOGIES LTD'. INSTALLED TO MANUFACTURERS DESIGN, RECOMENDATIONS AND GUIDELINES.
10. CONTRACTOR TO SEEK APPROVAL / APPLY FOR ALL NEW SEWER CONNECTIONS WHERE REQUIRED.
11. ALL 100mm NOMINAL INTERNAL DIAMETER SURFACE WATER DRAINS TO BE INSTALLED AT GRADIENT NOT FLATTER THAN 1:100.
11. ALL 150MM NOMINAL INTERNAL DIAMETER SURFACE WATER DRAINS TO BE INSTALLED AT GRADIENT NOT FLATTER THAN 1:150.
12. ALL LARGE DIAMETER STORAGE PIPES TO BE INSTALLED AT GRADIENT 1:500 UNLESS NOTED OTHERWISE.
13. ALL FOUL PIPES BENEATH BUILDINGS AND FROM SVPS, GULLIES AND WC CONNECTIONS TO ACCESS CHAMBERS TO BE 100mm AT A MINIMUM GRADIENT OF 1:40 UNLESS NOTED OTHERWISE.
14. MINIMUM GRADIENT OF 100mm FOUL PIPE BETWEEN ACCESS CHAMBERS OUTSIDE BUILDING TO BE MINIMUM 1 IN 80 UNO.
11. ALL FOUL CONNECTIONS TO BE FULLY TRAPPED AND EACH FOUL CONNECTION TO A BRANCH DRAIN TO BE FULLY RODDABLE (E.G. LOW LEVEL RODDING ACCESS).
14. ALL ROAD GULLY PIPEWORK SPURS TO BE 150mm DIA U.N.O.

REV.	DATE	DRAWN	DESCRIPTION	CHKD	APPRD
P0	OCT'18	ES	PRELIMINARY ISSUE	SH	SH

HBL ASSOCIATES Ltd.
CONSULTING CIVIL AND STRUCTURAL ENGINEERS
Brook House, Weybrook Road, Heaton Chapel, Stockport SK4 2QD.
Telephone 0161 432 9977
Facsimile 0161 432 7979
Email : consultants@hblassociates.co.uk

© COPYRIGHT RESERVED HBL ASSOCIATES Ltd.

STATUS: PRELIMINARY

CLIENT: ONE MANCHESTER	DRAWN: ES
PROJECT: HYDE ROAD RESIDENTIAL DEVELOPMENT	CHECKED: SH
LOCATION: HYDE ROAD, GORTON, M18 7FB	APPROVED: SH
DRAWING TITLE: PROPOSED DRAINAGE PLAN	DATE: MAY'17
	SCALE(S): 1:200 — A1
DRAWING No.: 50	HBL REF.: 5951
	REVISION: P0

FILE REF RJOBS CURRENT/

DRAFT