

DESIGN NOTE
DUE TO GENERAL SITE LEVELS, PLOTS 11 & 12 ARE TOO LOW TO UTILIZE PROPOSED S104 DRAINAGE SYSTEM, HENCE A PROPOSED SEPARATE SYSTEM CONNECTING DIRECTLY INTO AN EXISTING UU MH.

PROPOSAL SUBJECT TO SECTION 106 APPROVAL, AND APPROVAL BY UU TO ADOPT SECOND SW DISCHARGE POINT FROM SITE. DISCHARGE RATE TBC.

DESIGN NOTE
ATTENUATION TANK TO BE DESIGNED TO STORE WATER FROM STORMS ABOVE 1 IN 30 YEAR WATER LEVEL, UP TO AND INCLUDING 1 IN 100 YEAR EVENT PLUS 40% CLIMATE CHANGE INCREASE.

DESIGN NOTE
PLOT DRAINAGE TO BE CONSTRUCTED TO BUILDING REGULATIONS DOCUMENT H. 100MMØ PIPES TO BE USED FOR PLOT DRAINAGE UNLESS SPECIFIED OTHERWISE, AND PLOT MANHOLES TO BE 450MMØ IN NON-VEHICULAR AREAS AND 900MMØ IN VEHICULAR AREAS - UNLESS SPECIFIED OTHERWISE. PLOT DRAINAGE SHOWN INDICATIVELY, TO BE ENHANCED AT DETAILED DESIGN STAGE WITH ACCURATE POP UP/ RWP POSITIONS.

ALL COVER & INVERT LEVEL INFORMATION HAS BEEN TAKEN FROM AVAILABLE TOPOGRAPHICAL SURVEY DATA OR UNITED UTILITIES AND CCTV REPORT. EXISTING PUBLIC WATER SEWERS ARE TO BE ABOVE GROUND PROBED, ROUTED AND INTERNALLY SURVEYED WITH ALL INFORMATION PASSED TO CARLEY DAINES AND PARTNERS FOR REVIEW PRIOR TO COMMENCEMENT ON SITE

SW CATCHMENT AREAS

PIPE NO	AREA m2/ ha
S1.000	310/ 0.031
S2.000	N/A
S1.001	380/ 0.038
S1.002	1,010/ 0.101
S1.003	N/A
TOTAL	1700/ 0.170

PLOTS 11 & 12 TO HAVE SEPARATE SW DISCHARGE POINT, SUBJECT TO UU APPROVAL, SEE DESIGN NOTE.

PRIVATE GARDENS AND GARDEN PATHS IN PERMEABLE PAVING CONSTRUCTION.

DESIGN NOTE
CATCHMENT AREAS PLAN USED FOR THE PURPOSE OF IDENTIFY TOTAL IMPERMEABLE AREAS WHICH DISCHARGE INTO WHICH PROPOSED SEWER. VALUES RECORDED ARE USED IN THE MICRO DRAINAGE HYDRAULIC ANALYSIS TO DETERMINE AND CONFIRM PIPE, MANHOLE AND STORAGE SIZES.

DESIGN NOTE
SECTION 106 APPLICATION TO BE IN PLACE WITH UNITED UTILITIES BEFORE CONNECTION IS MADE TO THE PUBLIC SEWER SYSTEM

DESIGN NOTE
POSSIBILITY OF UTILISING EXISTING MANHOLE AND CONNECTION TO SEWER UNDER RETROSPECTIVE S102 ADOPTION TO BE EXPLORED WITH UNITED UTILITIES. FAILURE TO BE ACCEPTED WOULD RESULT IN NEW APPARATUS TO BE CONSTRUCTION AND NEW CONNECTION TO PUBLIC SEWER.

DESIGN NOTE
EXACT RWP LOCATION AND FOUL POP UP POSITIONS TO BE CONFIRMED AT LATER STAGE. CONNECTION TO PROPOSED NEW DRAINAGE VIA JUNCTION CONNECTIONS DIRECT FROM OUTLET.

NOTES

0m 10m 20m



1:200 scale bar

SITE LOCATION
CHAIN ROAD,
BLACKLEY,
MANCHESTER.
M9 ORD.
EASTINGS: 386000;
NORTHINGS: 404140.

NOTES

1. ALL DRAINAGE WORKS HAVE BEEN DESIGNED AND ARE TO BE CONSTRUCTED IN ACCORDANCE WITH BUILDING REGULATIONS DOCUMENT H & "SEWERS FOR ADOPTION 6TH EDITION" SUPPLEMENT GUIDELINES AND STANDARD DETAILS
2. ALL CLAY PIPE WORK SHALL BE EXTRA STRENGTH CLAYWARE TO BS EN 295 1991 PART 1
3. ALL PRECAST CONCRETE PIPEWORK SHALL BE TO THE CLASS STATED ON THE DRAWINGS IN ACCORDANCE WITH BS EN 1315 2002. ALL MANHOLES AND CHAMBERS SHALL BE TO BS EN 1817 2002
4. THE CONTRACTOR MAY ELECT TO USE REINFORCED PVC PIPES AS COVERED BY BS 4668 2000 & BS EN 1401.1. STRUCTURED WALL UPVC PIPES TO COMPLY WITH WIS 4-35-01. (BY PRIOR AGREEMENT WITH ADOPTING AUTHORITY) MAX. PIPE LENGTH TO BE 3.0M
5. ALL LEVELS RELATE TO TOPOGRAPHICAL SURVEY DATUM
6. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL OTHER RELEVANT DRAWINGS
7. PLOT DRAINAGE CONNECTIONS TO SEWERS MUST BE 150MM DIAMETER AND UNLESS OTHERWISE STATED LEAD TO THE INVERT SHOWN
8. ALL INSPECTION CHAMBERS TO BE 450MM DIAMETER POLYPROPYLENE WITH A MAXIMUM DEPTH OF 1200mm FOR THE STANDARD UNIT & A MAXIMUM DEPTH OF 3000mm WHEN A 350mm REDUCING RING IS USED
9. ALL PLOT DRAINAGE RUNS TO BE 100mm DIAMETER AT A NOMINAL FALL OF 1:80 UNLESS NOTED OTHERWISE
10. FLOODING EYES AT START OF EACH DRAINAGE RUN
11. ALLOW FOR 5.0M OF ACO DRAINAGE CHANNEL PER PROPERTY AT HIGHWAY BOUNDARY
12. SURFACE WATER FROM PLOT PARKING AREAS MUST NOT DISCHARGE ONTO THE HIGHWAY
13. PLOT DRAINAGE RUNS TO BE KEPT WITHIN THE CURTILAGE OF THE PLOT THEY SERVE WHEREVER POSSIBLE
14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ANY EXISTING INVERT LEVELS INDICATED ON DRAWINGS ARE CORRECT BEFORE THE WORKS ARE COMMENCED
15. ALL CONNECTIONS TO ADAPTABLE SEWERS SHALL BE MANUFACTURED JOINTS. SADDLE CONNECTIONS WILL NOT BE PERMITTED, UNLESS SPECIFIED
16. ALL SEWERS FOR ADOPTION WITH GREATER THAN 1.20M COVER IN ROADS OR 0.9M COVER IN FIELDS SHALL HAVE CLASS 5 GRANULAR BED AND SURROUND
17. ANY SEWER WITH LESS THAN 1.2M COVER IN ROADS OR 0.9M COVER IN FIELDS SHALL HAVE A MINIMUM OF 350MM ST4 CONCRETE SURROUND. FLEXIBILITY SHALL BE MAINTAINED BY THE PROVISION OF FLEXICELL OR SIMILAR APPROVED JOINT FILLER BREAKS IN THE CONCRETE SURROUND AT EACH PIPE JOINT
18. IT IS THE RESPONSIBILITY FOR THE CONTRACTOR TO CHECK ALL ON SITE EXISTING GROUND LEVELS PRIOR TO COMMENCING AND IF THERE ARE ANY DISCREPANCIES THE CONTRACTOR MUST REPORT TO THE ENGINEER IMMEDIATELY
19. CONTRACTOR TO CONFIRM THE COVER LEVEL, INVERT LEVEL & MANHOLE SIZE FOR THE EXISTING MANHOLE PRIOR TO CONTRACT START DATE
20. ALL DRAINAGE SHOWN IN THIS DRAWING IS BASED ON ESTIMATES AND IS ALL SUBJECT TO A FURTHER DETAILED DESIGN STAGE AND IS SUBJECT TO CHANGE
21. A NUMBER OF ASSUMPTIONS HAVE BEEN MADE IN REGARDS TO THE DISCHARGE METHOD OF SURFACE WATER
22. WML GROUND REPORT SUGGESTS INFILTRATION MAY BE POSSIBLE DUE TO LOW GROUND CONTAMINATION
23. UNITED UTILITIES AND LOCAL AUTHORITY SUGGEST INFILTRATION SHOULD BE THE FIRST METHOD OF DISCHARGE CONSIDERED, AND THIS STANCE WILL ONLY CHANGE SUBJECT TO PERCOLATION AND CONTAMINATION RESULTS SUGGESTING OTHERWISE
24. THE SIZE OF SOAKAWAY PIT HAS BEEN SIZED VIA SOFTWARE USING ESTIMATED AND STANDARD FIGURES. A FURTHER DESIGN WILL BE CARRIED OUT FOLLOWING TESTING WITH SITE SPECIFIC VALUES ALONG WITH THE DETAILED DESIGN

20/01/22 INITIAL ISSUE TO ACCOMPANY CONSTRUCTION DRAINAGE AND S104 PLAN.

REV. DATE DESCRIPTION

CLIENT

GREAT PLACES HOUSING GROUP
BOWKER SADLER ARCHITECTURE

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TITLE

CHAIN ROAD
BLACKLEY, MANCHESTER

SECTION 104 DRAWINGS
CATCHMENT AREAS PLAN

Drawn AM Checked DM
Date 20/01/2022 Date 20/01/2022

Scale 1:200 @ A1

Drawing No. 21-B-12851-203

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