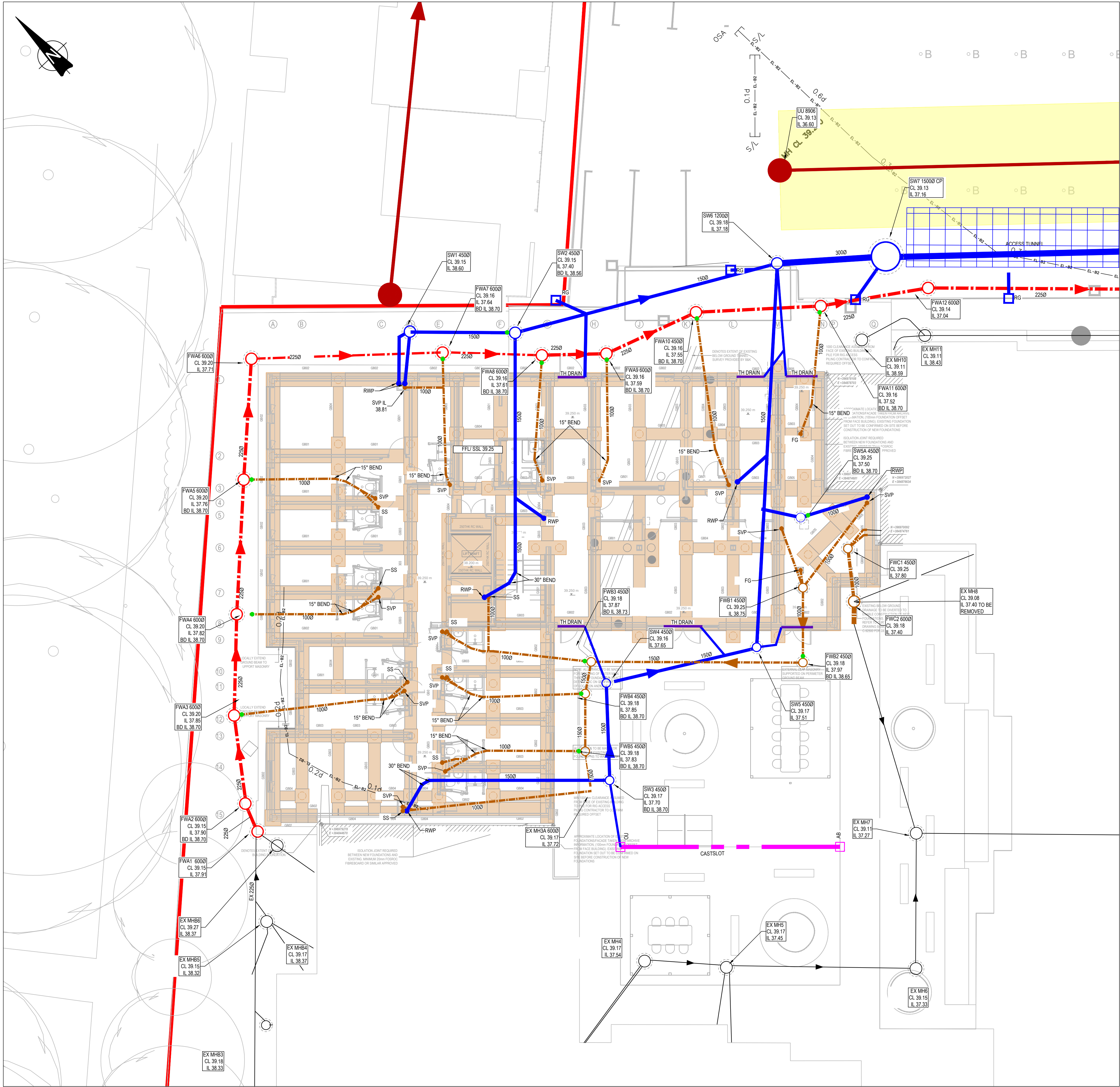




FINAL CONSTRUCTION
THE INFORMATION IS BASED ON CONFIRMATION FROM THE CONTRACTOR OF THE INSTALLED DRAINAGE. THERE MAY BE VARIATIONS ON SITE WHICH ARE NOT REFLECTED ON THIS DRAWING AND HAS NOT BEEN VERIFIED.

KEY

SITE BOUNDARY BASED ON ARCHITECT'S LAYOUT
500991-HCD-ZZ-00-DR-9001

EXISTING DRAINAGE

EXISTING PUBLIC COMBINED SEWER (APPROXIMATE)

PUBLIC SEWER EASEMENT - 3m FROM CENTRELINE OF SEWER (TBC)

EXISTING HIGHWAY SURFACE WATER GULLY (APPROXIMATE)

EXISTING PRIVATE DRAINAGE

CONSTRUCTED DRAINAGE

FOUL DRAINAGE

SURFACE WATER DRAINAGE

FLOW CONTROL CHAMBER

CELLULAR ATTENUATION STORAGE

BACKDROP

FOUL CONNECTION
SVP - SOIL VENT PIPE
SS - STIB STACK
SG - SHOWER GULLY
FG - FOUL GULLY

RWP LOCATION (TBC BY M&E DESIGNER/ ARCHITECT)

ROAD GULLY

LINEAR DRAINAGE CHANNEL/ OUTLET UNIT - GATIC
CASTSLOT TREADSAFE OR SIMILAR APPROVED.

GATIC ACCESS BOX

GATIC OUTLET UNIT

TH DRAIN

FOUNDATION

GENERAL NOTES:

FOR DRAINAGE NOTES REFER TO DRAWING
500991-CUR-XX-00-DR-C-92530

DESIGN PHILOSOPHY

SURFACE WATER

EXISTING SW FLOW RATES:
1-YEAR 10.4 l/s
30-YEAR 28.6 l/s
100-YEAR 35.9 l/s
FLOW RATES BASED ON PROPOSED DEVELOPABLE AREA OF 0.18 Ha;
CALCULATED USING A MODEL OF THE EXISTING DRAINAGE NETWORK IN MICRODRAINAGE

SOURCE CONTROL:
PROPOSED DISCHARGE RATES SET AT 5l/s FOR ALL STORM EVENTS IN ACCORDANCE WITH UNITED UTILITIES REQUIREMENTS:
DRAINAGE MODELS INCLUDE FOR A SURCHARGED OUTFALL LEVEL OF 37.410

STORAGE REQUIREMENT:
63m³ BASED ON CAUSEWAY FLOW DESIGN MODEL. DESIGNED TO HAVE NO DRAINAGE FOR THE 1:100-YEAR STORM + 40% CLIMATE CHANGE ALLOWANCE.

INFILTRATION:
SITE INVESTIGATION INDICATES THAT THE SUB-STRATA MAY BE SUITABLE FOR INFILTRATION. HOWEVER, DUE TO THE PROPOSED & EXISTING BUILDING LAYOUT, AND ALSO THE EXISTING PUBLIC SEWER UNDER THE CAR PARK, THERE IS INSUFFICIENT SPACE TO LOCATE INFILTRATION FEATURES.

FOUL DRAINAGE

LEVELS INDICATE THAT PUMPING WILL NOT BE REQUIRED. TBC FOLLOWING FURTHER DESIGN AND SURVEY WORK.

PEAK FOUL FLOWS ESTIMATED USING DISCHARGE UNIT METHOD BASED ON M&E ENGINEER'S ABOVE GROUND DRAINAGE DESIGN:
NETWORK A: 8.9 l/s
NETWORK B: 7.5 l/s

DRAWING REFERENCES

TOPOGRAPHICAL SURVEY (DPR) RECEIVED 07.03.19
18607-T-ADDITIONAL AREA REV A1

ARCHITECT (HCD)
500991-HCD-ZZ-00-DR-A-9001 REV C01 SITE PLAN GA
500991-HCD-ZZ-00-DR-A-2300 REV C01 SLAB SETTING OUT LEVEL 00
500991-HCD-ZZ-00-DR-A-9002 REV C02 WATER TANK ROOM

M&E (AMEON)
500991-AME-ZZ-XX-DR-M-5201 REV C01 LEVEL 00 AGD LAYOUT
500991-AME-ZZ-XX-DR-M-5230 REV C01 AGD SCHEMATIC SHEET 1
500991-AME-ZZ-XX-DR-M-5231 REV C01 AGD SCHEMATIC SHEET 2
500991-AME-ZZ-XX-DR-M-5232 REV C01 RAINWATER SCHEMATIC
500991-AME-ZZ-XX-DR-N-9020 REV C04 SITE WIDE EXTERNAL M&E SERVICES LAYOUT

LANDSCAPE ARCHITECT (WEDDLES)
1280-WLD-00-XX-DR-L-0001 REV-F LANDSCAPE GA PLAN

FOUNDATION LAYOUT (CURTINS)
500991-CUR-XX-00-FN-DR-S-16001 REV C02 FOUNDATION LAYOUT

CCTV SURVEYS:
S20263 CCTV SURVEY BY SEP DATED FEB 2020
ADDITIONAL SURVEY BY TEAM DRAINAGE DATED JUNE 2021

EXISTING PUBLIC SEWERS
PUBLIC SEWER LOCATIONS DERIVED FROM PDF OVERLAY OF UNITED UTILITIES PUBLIC SEWER PLANS. RECEIVED 08.03.19

AS-BUILT DRAINAGE
AS BUILT DRAINAGE INFORMATION RECEIVED 15.09.22 FROM QED CONSTRUCTION

FC01	FINAL CONSTRUCTION ISSUE	21.09.22	ATL	ATL
C04	ATTENUATION TANK DETAILS AMENDED, DRAINAGE AMENDED TO SUIT ON-SITE CHANGES	08.02.22	ATL	CG
C03	DRAINAGE AMENDED TO ACCEPT EXISTING COMBINED DRAINAGE, AND REVISED EXISTING DRAINAGE LEVELS	23.12.21	ATL	ATL
C02	UPDATED IN LINE WITH DESIGN TEAM COMMENTS	09.11.21	ATL	ATL
C01	ISSUED FOR CONSTRUCTION	20/09/21	ATL	MW
Rev:	Description:	Date:	By:	Chkd:

Curtins

Merchant Exchange, 17-19 Whitworth Street West, Manchester, M1 5WG
0161 236 2394
manchester@curtins.com
www.curtins.com

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FINAL CONSTRUCTION

Project:

KINCARDINE COURT

Orig Title:

PROPOSED BUILDING DRAINAGE

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	20/09/21	ATL	ATL	MW

Scale: 1:100

Project No: Originator: Volume: Level: Type: Role: Category / Number: Rev:

500991 - CUR - ZZ - 00 - DR - C - 9501 -FC01

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