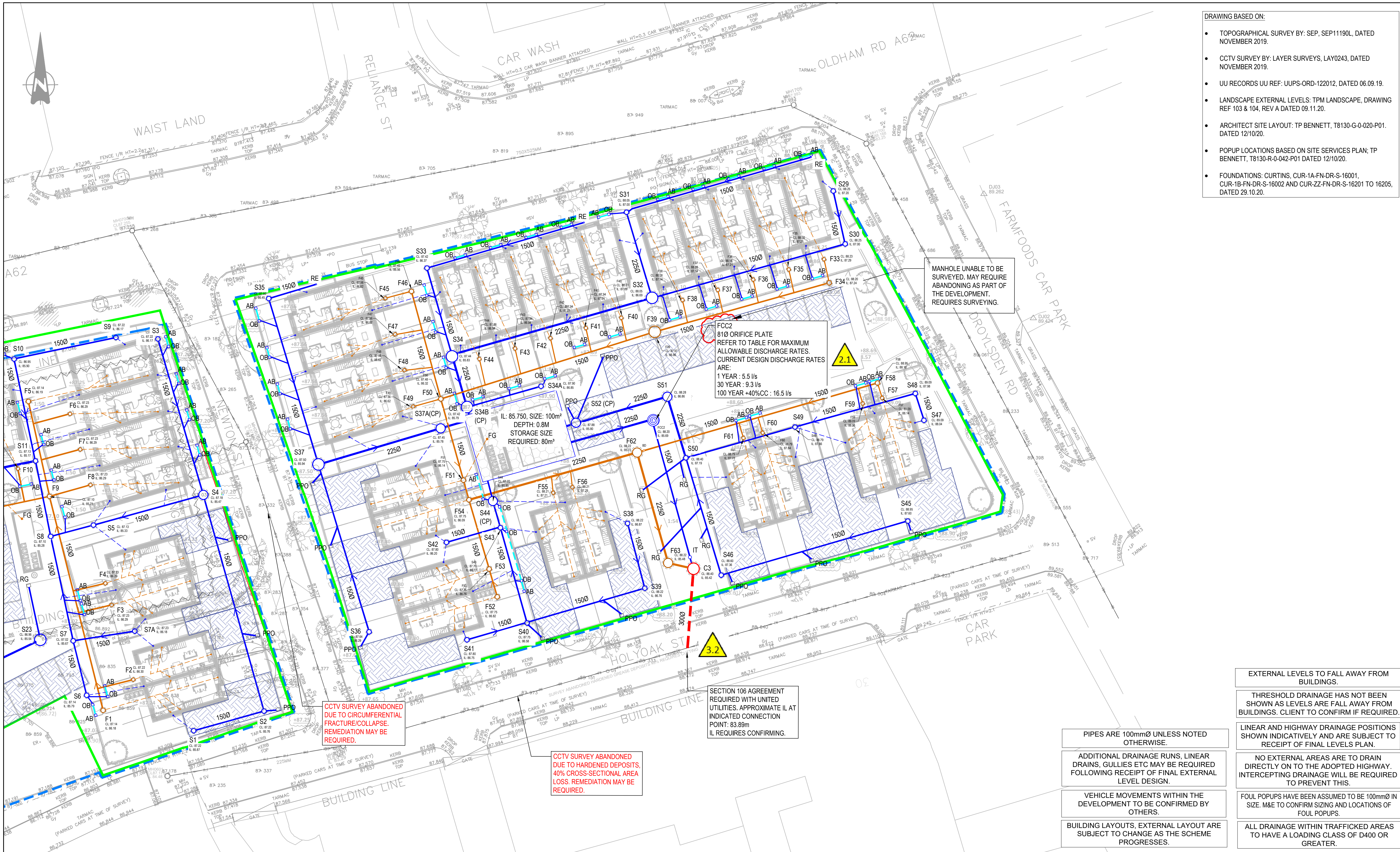




- DRAWING BASED ON:
- TOPOGRAPHICAL SURVEY BY: SEP, SEP1190L, DATED NOVEMBER 2019.
 - CCTV SURVEY BY: LAYER SURVEYS, LAY0243, DATED NOVEMBER 2019.
 - UU RECORDS UU REF: UUPS-ORD-122012, DATED 06.09.19.
 - LANDSCAPE EXTERNAL LEVELS: TPM LANDSCAPE, DRAWING REF 103 & 104, REV A DATED 09.11.20.
 - ARCHITECT SITE LAYOUT: TP BENNETT, T8130-G-0-020-P01, DATED 12/10/20.
 - POPUP LOCATIONS BASED ON SITE SERVICES PLAN; TP BENNETT, T8130-R-0-042-P01 DATED 12/10/20.
 - FOUNDATIONS: CURTINS, CUR-1A-FN-DR-S-16001, CUR-1B-FN-DR-S-16002 AND CUR-ZZ-FN-DR-S-16201 TO 16205, DATED 29.10.20.

- GENERAL NOTES:
1. THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
 2. DESIGN BASED ON TOPOGRAPHICAL SURVEY AND CCTV SURVEY INFORMATION AVAILABLE AT THE TIME OF DESIGN.
 3. ALL EXISTING SEWERS, CONNECTIONS, PIPE SIZES AND INVERT LEVELS TO BE CONFIRMED BY CONTRACTOR PRIOR TO COMMENCEMENT OF WORKS TO ENSURE CONNECTIVITY. ANY VARIANCE FROM THE INFORMATION SHOWN SHOULD BE REPORTED TO THE ENGINEER FOR REVIEW.
 4. 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.
 5. ALL DIMENSIONS ARE IN METRES AND LEVELS IN METRES ABOVE ORDINANCE DATUM UNLESS OTHERWISE NOTED.
 6. WHERE EXISTING DRAINAGE IS BEING USED, ALLOWANCES SHOULD BE MADE TO REMEDIATE THIS DRAINAGE IN LINE WITH AVAILABLE CCTV SURVEY INFORMATION. IF NO SURVEY IS AVAILABLE, IT IS ADVISED TO OBTAIN ONE PRIOR TO COMMENCEMENT OF WORKS.
 7. ALL EXISTING SERVICES TO BE LOCATED PRIOR TO COMMENCEMENT OF ANY DRAINAGE WORKS, AND WHERE NECESSARY PROTECTION OR DIVERSIONS TO BE UNDERTAKEN TO AVOID CONFLICT WITH THE PROPOSED WORK.
 8. ALL RAINWATER AND FOUL POP UPS LOCATIONS AND SIZES TO BE CONFIRMED BY THE ARCHITECT AND M&E ENGINEER.
 9. COVER LEVELS AND BUILDINGS LOCATION ARE APPROXIMATE AND SHALL BE CONFIRMED BY ARCHITECT/ LANDSCAPE ARCHITECT.
 10. OUTFALL CONNECTION(S) SUBJECT TO AGREEMENT WITH THE APPROVING AUTHORITY.
 11. ALL PROPOSED DRAINAGE IS TO REMAIN PRIVATE AND IS NOT TO BE ADOPTED.
 12. ALL DRAINAGE TO BE CONFIRMED REDUNDANT PRIOR TO ANY WORKS
 13. DRAINAGE ENGINEER TO BE MADE AWARE OF ANY EXISTING LIVE DRAINAGE WITHIN THE SITE BOUNDARY.
 14. FOR DRAINAGE NOTES REFER TO DRAWING 074031-CUR-00-XX-DR-C-92512.

PROPOSED FLOW RATES (50% EXISTING) AS AGREED U/L/LFA			
SITE	FLOW RATE 1:1 YEAR (L/S)	FLOW RATE 1:30 YEAR (L/S)	FLOW RATE 1:100 YEAR (L/S)
PROPOSED SITE (SITE 1 + SITE 2)	15.3	42.2	52.4

- EXTERNAL LEVELS TO FALL AWAY FROM BUILDINGS.
- THRESHOLD DRAINAGE HAS NOT BEEN SHOWN AS LEVELS ARE FALL AWAY FROM BUILDINGS. CLIENT TO CONFIRM IF REQUIRED.
- LINEAR AND HIGHWAY DRAINAGE POSITIONS SHOWN INDICATIVELY AND ARE SUBJECT TO RECEIPT OF FINAL LEVELS PLAN.
- NO EXTERNAL AREAS ARE TO DRAIN DIRECTLY ON TO THE ADOPTED HIGHWAY. INTERCEPTING DRAINAGE WILL BE REQUIRED TO PREVENT THIS.
- FOUL POPUPS HAVE BEEN ASSUMED TO BE 100mmØ IN SIZE. M&E TO CONFIRM SIZING AND LOCATIONS OF FOUL POPUPS.
- ALL DRAINAGE WITHIN TRAFFICKED AREAS TO HAVE A LOADING CLASS OF D400 OR GREATER.

- PIPES ARE 100mmØ UNLESS NOTED OTHERWISE.
- ADDITIONAL DRAINAGE RUNS, LINEAR DRAINS, GULLIES ETC MAY BE REQUIRED FOLLOWING RECEIPT OF FINAL EXTERNAL LEVEL DESIGN.
- VEHICLE MOVEMENTS WITHIN THE DEVELOPMENT TO BE CONFIRMED BY OTHERS.
- BUILDING LAYOUTS, EXTERNAL LAYOUT ARE SUBJECT TO CHANGE AS THE SCHEME PROGRESSES.

SECTION 106 AGREEMENT REQUIRED WITH UNITED UTILITIES. APPROXIMATE IL AT INDICATED CONNECTION POINT: 83.89m IL REQUIRES CONFIRMING.

CCTV SURVEY ABANDONED DUE TO HARDENED DEPOSITS. 40% CROSS SECTIONAL AREA LOSS. REMEDIATION MAY BE REQUIRED.

CCTV SURVEY ABANDONED DUE TO CIRCUMFERENTIAL FRACTURE/COLLAPSE. REMEDIATION MAY BE REQUIRED.

KEY:

INDICATIVE HIGHWAY BOUNDARY

SITE BOUNDARY
(TAKEN FROM T8130G0020 12.10.20)

EXISTING PRIVATE SURFACE WATER SEWER/DRAIN

EXISTING PRIVATE FOUL WATER SEWER/DRAIN

EXISTING PRIVATE COMBINED WATER SEWER/DRAIN

EXISTING COMBINED PUBLIC SEWER AND MANHOLE

PROPOSED PRIVATE COMBINED DRAIN

PROPOSED PRIVATE FOUL DRAIN

PROPOSED PRIVATE SURFACE DRAIN

PROPOSED ATTENUATION SYSTEM
(TYPE TO BE CONFIRMED)

PERMEABLE BLOCK PAVING

PROPOSED FLOW CONTROL CHAMBER

EXISTING DRAINAGE TO BE ABANDONED

PROPOSED PRIVATE FOUL MANHOLE OR PPIC

PROPOSED PRIVATE SURFACE MANHOLE OR PPIC

PROPOSED PRIVATE COMBINED MANHOLE OR PPIC

SURFACE WATER POPUP & CONNECTION

FOUL WATER POPUP & CONNECTION

SLOT DRAINS AND ASSOCIATED ACCESS/OUTLET BOXES (SIZE AND TYPE TBC)

FLOOR GULLY

ROAD GULLY

PERMEABLE PAVING OUTLET

INTERCEPTOR TRAP

PROPOSED RODDING EYE

FCC

F1

S1

C1

AB

OB

FG

RG

PPO

IT

RE

RESIDUAL HAZARD REGISTER (RELATES TO CIVIL MATTERS ONLY)		
MUST BE READ IN CONJUNCTION WITH CURTINS RESIDUAL HAZARD REGISTER 074031-CUR-XX-XX-HA-Z-00001. HAZARDS THAT SHOULD BE OBVIOUS TO A COMPETENT CONTRACTOR HAVE NOT BEEN INDICATED ON THIS DRAWING. SHOULD ANY ADDITIONAL HAZARDS BE IDENTIFIED, THE CONTRACTOR SHOULD NOTIFY ALL RELEVANT PROJECT TEAM MEMBERS.		
HAZARD REF No.	ITEM (FEATURE, ELEMENT OR ACTIVITY)	RESIDUAL HAZARD
2.1	Discarded used needles found across the site by surveyors.	Injury from discarded needles.
3.2	Existing deep drainage	Falls from height.

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Status: **STAGE 3 ISSUE**

Project: **OLDHAM ROAD, NEWTON HEATH**

Dig Title: **DRAINAGE LAYOUT SHEET 2**

Size:	Date:	Drawn By:	Designed By:	Checked By:
A1	17/01/20	AH	AH	CD

Scale: 1:250

Project No: 074031 - CUR - 00 - XX - DR - C - 92501 - P06

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