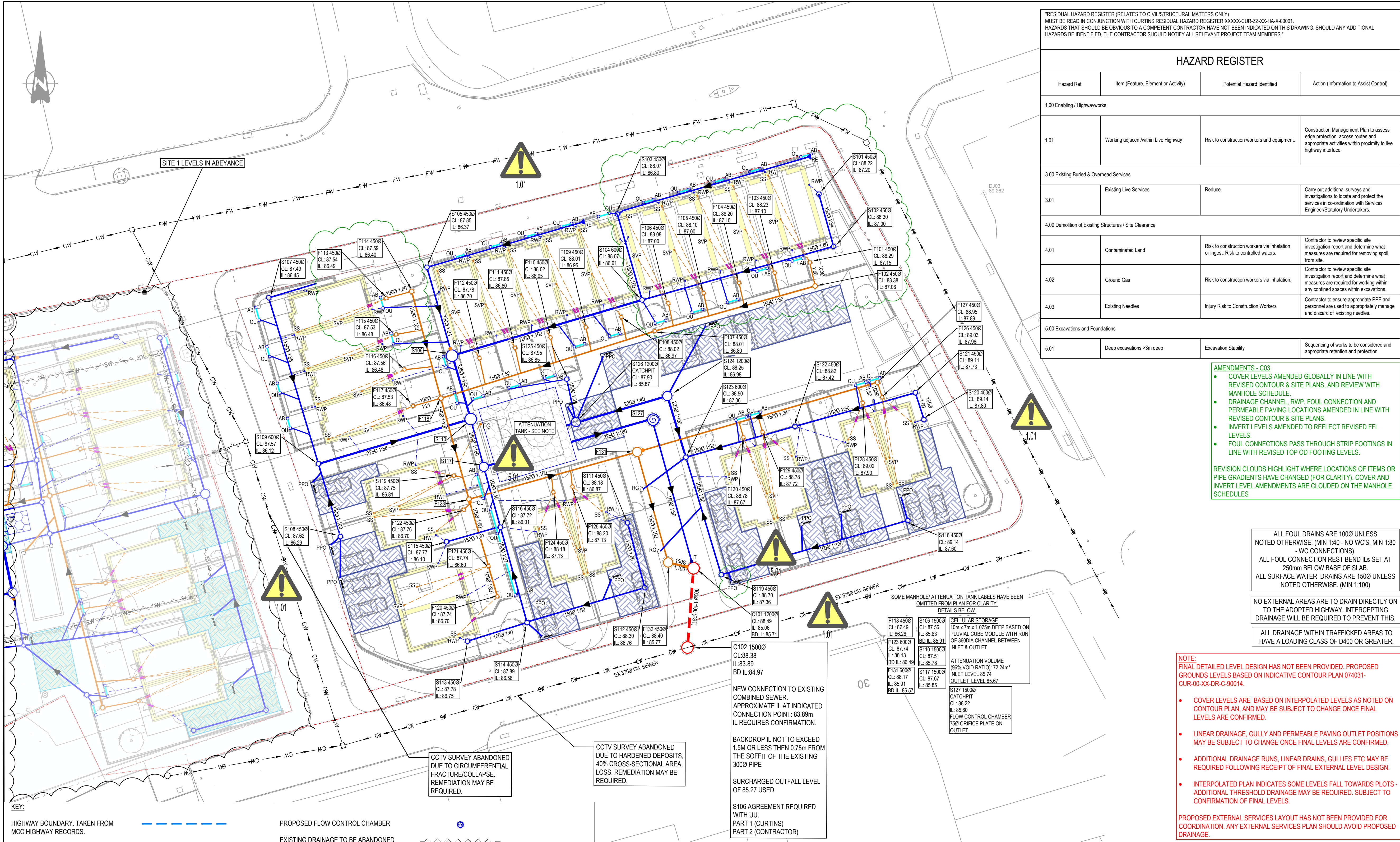




KEY:

Highway Boundary. Taken from MCC Highway Records.

Existing Site Boundary. Taken from Architect Drawing T8170-W-0-400-P1

Phase 1 Boundary. Taken from Architect Drawing T8170-W-0-400-P1 and S38/S278 Drawings

Phase 2 Boundary. Taken from Architect Drawing T8170-W-0-400-P1

All Boundaries are Offset for Clarity and Therefore Indicative.

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

Pipe Passes Through Strip Footing

Proposed Linear Drainage with Associated Access/Outlet Boxes

Gatic Castslot Treadsafe 100 or Similar Approved

Foul Gully

Road Gully

Permeable Paving Outlet

Interceptor Trap

Proposed Rodding Eye

750mm Depth to Invert

Backdrop

Proposed Foundation

FG

RG

PPIC

IT

RE

NEW CONNECTION TO EXISTING COMBINED SEWER. APPROXIMATE I.L. AT INDICATED CONNECTION POINT: 83.89m I.L. REQUIRES CONFIRMATION.

BACKDROP I.L. NOT TO EXCEED 1.5M OR LESS THEN 0.75m FROM THE SOFFIT OF THE EXISTING 3000 PIPE

SURCHARGED OUTFALL LEVEL OF 85.27 USED.

S106 AGREEMENT REQUIRED WITH UU. PART 1 (CURTINS) PART 2 (CONTRACTOR)

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

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

ALL FOUL DRAINS ARE 1000 UNLESS NOTED OTHERWISE. (MIN 1:40 - NO W/C'S, MIN 1:80 - W/C CONNECTIONS).

ALL FOUL CONNECTION REST BEND I.L. SET AT 250mm BELOW BASE OF SLAB.

ALL SURFACE WATER DRAINS ARE 1500 UNLESS NOTED OTHERWISE. (MIN 1:100)

NO EXTERNAL AREAS ARE TO DRAIN DIRECTLY ON TO THE ADOPTED HIGHWAY. INTERCEPTING DRAINAGE WILL BE REQUIRED TO PREVENT THIS.

ALL DRAINAGE WITHIN TRAFFICKED AREAS TO HAVE A LOADING CLASS OF D400 OR GREATER.

AMENDMENTS - C03

- COVER LEVELS AMENDED GLOBALLY IN LINE WITH REVISED CONTOUR & SITE PLANS, AND REVIEW WITH MANHOLE SCHEDULE.
- DRAINAGE CHANNEL, RWP, FOUL CONNECTION AND PERMEABLE PAVING LOCATIONS AMENDED IN LINE WITH REVISED CONTOUR & SITE PLANS.
- INVERT LEVELS AMENDED TO REFLECT REVISED FFL LEVELS.
- FOUL CONNECTIONS PASS THROUGH STRIP FOOTINGS IN LINE WITH REVISED TOP OF FOOTING LEVELS.

REVISION CLOUDS HIGHLIGHT WHERE LOCATIONS OF ITEMS OR PIPE GRADIENTS HAVE CHANGED (FOR CLARITY). COVER AND INVERT LEVEL AMENDMENTS ARE CLOUDED ON THE MANHOLE SCHEDULES

NOTE:

FINAL DETAILED LEVEL DESIGN HAS NOT BEEN PROVIDED. PROPOSED GRAUNDS LEVELS BASED ON INDICATIVE CONTOUR PLAN 074031-CUR-00-XX-DR-C-90014.

- COVER LEVELS ARE BASED ON INTERPOLATED LEVELS AS NOTED ON CONTOUR PLAN, AND MAY BE SUBJECT TO CHANGE ONCE FINAL LEVELS ARE CONFIRMED.
- LINEAR DRAINAGE, GULLY AND PERMEABLE PAVING OUTLET POSITIONS MAY BE SUBJECT TO CHANGE ONCE FINAL LEVELS ARE CONFIRMED.
- ADDITIONAL DRAINAGE RUNS, LINEAR DRAINS, GULLIES ETC MAY BE REQUIRED FOLLOWING RECEIPT OF FINAL EXTERNAL LEVEL DESIGN.
- INTERPOLATED PLAN INDICATES SOME LEVELS FALL TOWARDS PLOTS - ADDITIONAL THRESHOLD DRAINAGE MAY BE REQUIRED. SUBJECT TO CONFIRMATION OF FINAL LEVELS.

PROPOSED EXTERNAL SERVICES LAYOUT HAS NOT BEEN PROVIDED FOR COORDINATION. ANY EXTERNAL SERVICES PLAN SHOULD AVOID PROPOSED DRAINAGE.

GENERAL NOTES:

- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
- DESIGN BASED ON TOPOGRAPHICAL SURVEY AND CCTV SURVEY INFORMATION AVAILABLE AT THE TIME OF DESIGN.
- 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.
- 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.
- ALL DIMENSIONS ARE IN METRES AND LEVELS IN METRES ABOVE ORDNANCE DATUM UNLESS OTHERWISE NOTED.
- 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.
- 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.
- ALL RAINWATER AND FOUL POP UPS LOCATIONS AND SIZES TO BE CONFIRMED BY THE ARCHITECT AND M&E ENGINEER.
- COVER LEVELS AND BUILDINGS LOCATION ARE APPROXIMATE AND SHALL BE CONFIRMED BY ARCHITECT/LANDSCAPE ARCHITECT.
- OUTFALL CONNECTION(S) SUBJECT TO AGREEMENT WITH THE APPROVING AUTHORITY.
- ALL PROPOSED DRAINAGE IS TO REMAIN PRIVATE AND IS NOT TO BE ADOPTED.
- ALL DRAINAGE TO BE CONFIRMED REDUNDANT PRIOR TO ANY WORKS
- DRAINAGE ENGINEER TO BE MADE AWARE OF ANY EXISTING LIVE DRAINAGE WITHIN THE SITE BOUNDARY.
- FOR DRAINAGE NOTES REFER TO DRAWING 074031-CUR-00-XX-DR-C-92512.

PROPOSED FLOW RATES (50% EXISTING) AS AGREED UULLFA			
SITE	FLOW RATE 1:1 YEAR (L/S)	FLOW RATE 1:30 YEAR (L/S)	FLOW RATE 1:100+40%CC YEAR (L/S)
PROPOSED SITE (SITE 1 + SITE 2)	15.3	42.2	52.4
SITE 1	9.8	32.9	35.9
SITE 2	5.5	9.3	16.5

CONSTRUCTION RECORD - FINAL CONSTRUCTION

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

C04	FINAL CONSTRUCTION	25.01.24	JC	CG
C03	UPDATED IN LINE WITH REVISED SITE PLAN & LEVELS REVIEW	03.03.23	ATL	CG
C02	UPDATED CONSTRUCTION ISSUE	16/12/22	CS	CG
C01	ISSUED FOR CONSTRUCTION	07/11/22	CS	CG
P07	REVISED IN LINE WITH UPDATED SITE PLAN	22/09/22	ATL	CG
P06	S34, S46 AND F46 CL AND IL UPDATED	11/02/22	CS	CG
P05	COVER AND INVERT LEVELS ADDED	28/01/22	TH	CG
P04	UPDATED WITH AGREED FLOW RATES	04/11/21	CG	CG
P03	STAGE 3 ISSUE	16/11/20	AH	CD
P02	ISSUED FOR PLANNING	24/01/20	AH	CD
P01	DRAFT ISSUE FOR COMMENT	17/01/20	AH	CD

Rev: Description: Date: By: Chkd:

Merchant Exchange, 17-19 Whitworth Street West, Manchester, M1 5WG
0161 235 2354
manchester@curtins.com
www.curtins.com

Civils & Structures • Transport Planning • Environmental • Infrastructure • Geotechnical • Conservation & Heritage • Principal Designer
Birmingham • Bristol • Cambridge • Cardiff • Douglas • Dublin • Edinburgh • Glasgow • Kentish • Leeds • Liverpool • London • Nottingham

Status:

Project:

Oldham Road, Newton Heath

Orig Title:

DRAINAGE LAYOUT
PHASE 1 - SITE 2

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

Scale: 1:250

Project No:	Originator:	Volume:	Level:	Type:	Role:	Category / Number:	Rev:
074031	CUR	00	XX	DR	C	92501	C04

'RESIDUAL HAZARD REGISTER (RELATES TO CIVIL/STRUCTURAL MATTERS ONLY)
MUST BE READ IN CONJUNCTION WITH CURTINS RESIDUAL HAZARD REGISTER XXXXX-CUR-ZZ-XX-HA-X-0001
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.	Item (Feature, Element or Activity)	Potential Hazard Identified	Action (Information to Assist Control)
1.00 Enabling / Highwayworks			
1.01	Working adjacent/within Live Highway	Risk to construction workers and equipment.	Construction Management Plan to assess edge protection, access routes and appropriate activities within proximity to live highway interface.
3.00 Existing Buried & Overhead Services			
3.01	Existing Live Services	Reduce	Carry out additional surveys and investigations to locate and protect the services in co-ordination with Services Engineer/Statutory Undertakers.
4.00 Demolition of Existing Structures / Site Clearance			
4.01	Contaminated Land	Risk to construction workers via inhalation or ingest. Risk to controlled waters.	Contractor to review specific site investigation report and determine what measures are required for removing spoil from site.
4.02	Ground Gas	Risk to construction workers via inhalation.	Contractor to review specific site investigation report and determine what measures are required for working within any confined spaces within excavations.
4.03	Existing Needles	Injury Risk to Construction Workers	Contractor to ensure appropriate PPE and personnel are used to appropriately manage and discard of existing needles.
5.00 Excavations and Foundations			
5.01	Deep excavations >3m deep	Excavation Stability	Sequencing of works to be considered and appropriate retention and protection

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DRAWING BASED ON:

- TOPOGRAPHICAL SURVEY BY: SEP, SEP11190L, 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-0-021-T4, DATED 27/02/22.
- ARCHITECTS LAYOUT AGREED LEVELS MARK UP SKETCH RECEIVED 17.01.23.

POUP LOCATIONS BASED ON ARCHITECTS PLOT LAYOUTS:

- T8130G2100 REV T1
- T8130G4100 REV T1
- T8130G5100 REV T1
- T8130G7100 REV T1
- T8130G10100 REV T1

FOUNDATIONS (CURTINS).

- CUR-ZZ-FN-DR-S-16201 TO 16205, ALL REV C03, DATED 20.02.23