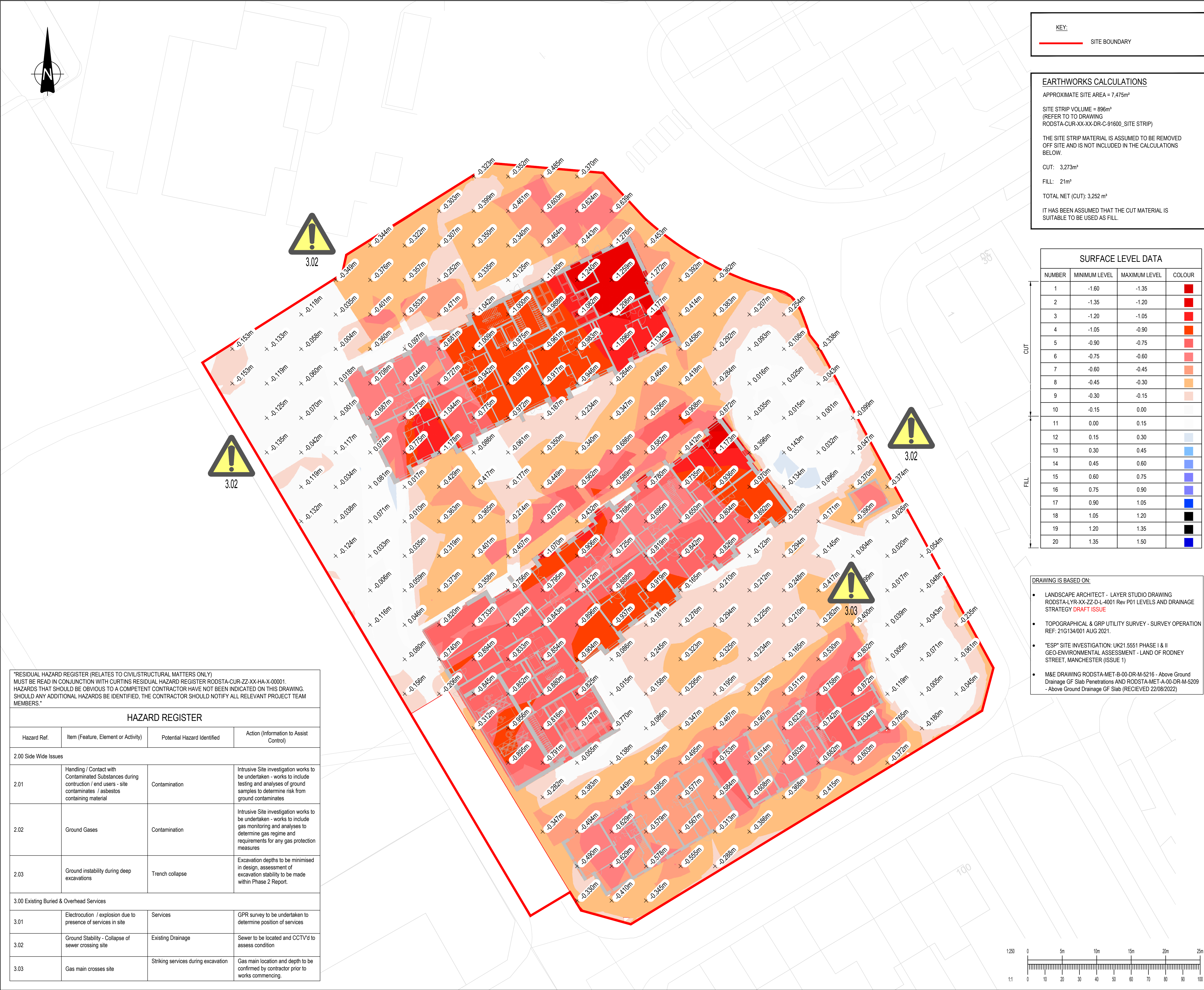




KEY:
SITE BOUNDARY

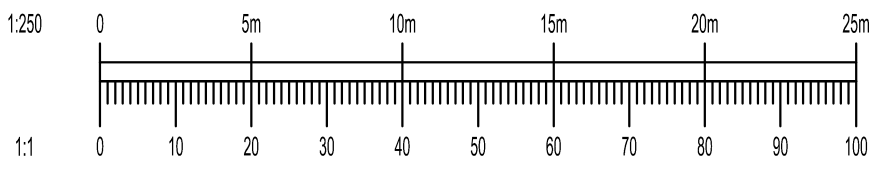
EARTHWORKS CALCULATIONS
APPROXIMATE SITE AREA = 7,475m²
SITE STRIP VOLUME = 896m³
(REFER TO TO DRAWING RODSTA-CUR-XX-XX-DR-C-91600_SITE STRIP)
THE SITE STRIP MATERIAL IS ASSUMED TO BE REMOVED OFF SITE AND IS NOT INCLUDED IN THE CALCULATIONS BELOW.
CUT: 3,273m³
FILL: 21m³
TOTAL NET (CUT): 3,252 m³
IT HAS BEEN ASSUMED THAT THE CUT MATERIAL IS SUITABLE TO BE USED AS FILL.

SURFACE LEVEL DATA			
NUMBER	MINIMUM LEVEL	MAXIMUM LEVEL	COLOUR
1	-1.60	-1.35	Red
2	-1.35	-1.20	Red
3	-1.20	-1.05	Red
4	-1.05	-0.90	Orange
5	-0.90	-0.75	Yellow
6	-0.75	-0.60	Yellow
7	-0.60	-0.45	Orange
8	-0.45	-0.30	Yellow
9	-0.30	-0.15	Light Blue
10	-0.15	0.00	Light Blue
11	0.00	0.15	Light Blue
12	0.15	0.30	Light Blue
13	0.30	0.45	Blue
14	0.45	0.60	Blue
15	0.60	0.75	Blue
16	0.75	0.90	Blue
17	0.90	1.05	Blue
18	1.05	1.20	Black
19	1.20	1.35	Black
20	1.35	1.50	Blue

DRAWING IS BASED ON:

- LANDSCAPE ARCHITECT - LAYER STUDIO DRAWING RODSTA-LYR-XX-ZZ-D-L-4001 Rev P01 LEVELS AND DRAINAGE STRATEGY **DRAFT ISSUE**
- TOPOGRAPHICAL & GRP UTILITY SURVEY - SURVEY OPERATION REF: 21G134/001 AUG 2021.
- "ESP" SITE INVESTIGATION: UK21.5551 PHASE I & II GEO-ENVIRONMENTAL ASSESSMENT - LAND OF RODNEY STREET, MANCHESTER (ISSUE 1)
- M&E DRAWING RODSTA-MET-B-00-DR-M-5216 - Above Ground Drainage GF Slab Penetrations AND RODSTA-MET-A-00-DR-M-5209 - Above Ground Drainage GF Slab (RECIEVED 22/08/2022)

HAZARD REGISTER			
Hazard Ref.	Item (Feature, Element or Activity)	Potential Hazard Identified	Action (Information to Assist Control)
2.00 Side Wide Issues			
2.01	Handling / Contact with Contaminated Substances during contruction / end users - site contaminates / asbestos containing material	Contamination	Intrusive Site investigation works to be undertaken - works to include testing and analyses of ground samples to determine risk from ground contaminates
2.02	Ground Gases	Contamination	Intrusive Site investigation works to be undertaken - works to include gas monitoring and analyses to determine gas regime and requirements for any gas protection measures
2.03	Ground instability during deep excavations	Trench collapse	Excavation depths to be minimised in design, assessment of excavation stability to be made within Phase 2 Report.
3.00 Existing Buried & Overhead Services			
3.01	Electrocution / explosion due to presence of services in site	Services	GPR survey to be undertaken to determine position of services
3.02	Ground Stability - Collapse of sewer crossing site	Existing Drainage	Sewer to be located and CCTV'd to assess condition
3.03	Gas main crosses site	Striking services during excavation	Gas main location and depth to be confirmed by contractor prior to works commencing.



- GENERAL NOTES:**
- THIS DRAWING IS TO BE READ IN CONJUNCTION WITH ALL RELEVANT ARCHITECTS AND ENGINEERS DRAWINGS AND SPECIFICATIONS.
 - 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 UNLESS NOTED OTHERWISE.
 - THIS DRAWING HAS BEEN BASED ON "SURVEY OPERATIONS" TOPOGRAPHICAL SURVEY DRAWING NUMBER "21G134/001".
 - THIS DRAWING HAS BEEN PRODUCED TO DEMONSTRATE AREAS AND DEPTHS USED TO PRODUCE THE MAIN CUT AND FILL DRAWING RODSTA-CUR-XX-XX-DR-C-91610.
 - TOPOGRAPHICAL SURVEY HAS BEEN ASSUMED TO BE REPRESENTATIVE OF SITE UPON COMMENCEMENT OF BULK EARTHWORKS OPERATIONS. CURTINS ACCEPT NO LIABILITY FOR VARIATION FROM THE PROVIDED TOPOGRAPHICAL SURVEY.
 - THE ASSUMPTION HAS BEEN MADE THAT ALL MATERIAL BELOW SITE STRIP IS SUITABLE FOR REUSE AND FREE FROM CONTAMINATION.
 - SUBBASE DEPTH SUBJECT TO CHANGE FOLLOWING DETAILED DESIGN ONCE CBR VALUES ARE OBTAINED
 - BULK EARTHWORKS DRAWING IS TO BE USED TO INFORM THE COST PLAN ONLY AND WILL BE SUBJECT TO DEVELOPMENT BY THE BULK EARTHWORKS SUB-CONTRACTOR TO PRODUCE THEIR EARTHWORKS STRATEGY FOR CONSTRUCTION INCLUSIVE OF WASTE MANAGEMENT PLANS/ MATERIAL MANAGEMENT PLANS

10. NO ALLOWANCE HAS BEEN MADE FOR:
- ARISING
 - BULKING FACTORS
 - FOUNDATIONS
 - SERVICES
 - KERB SURROUNDS
 - EXISTING OR PROPOSED TREE PITS
 - TEMPORARY STRUCTURES
 - PAVING BUILD UPS
 - PROPOSED DRAINAGE

P04	STAGE 4B	30.08.22	LK	CG
P03	DRAFT STAGE 4 ISSUE	05.08.22	LK	CG
P02	STAGE 3 ISSUE	27.05.22	LK	CG
P01	STAGE 2 ISSUE	25.02.22	LK	CG
Rev:	Description:	Date:	By:	Chkd:

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Status: **S4**

Project: **RODNEY STREET, MANCHESTER**

Orig Title: **EARTHWORKS CUT & FILL VOLUMETRICS**

Drawn By: LK	Designed By: LK	Checked By: CG
	Date: 22/02/22	Scales @ A1: 1:250
Project No - Originator - Function - Spatial - Form - Discipline - Number		
Revision		

RODSTA - CUR - ZZ - XX - DR - C - 91611

P04

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