

East Midlands Gateway Phase 2 (EMG2)

Document DCO 6.14M/MCO 6.14M

ENVIRONMENTAL STATEMENT

Technical Appendices

Appendix 14M

Figures

August 2025

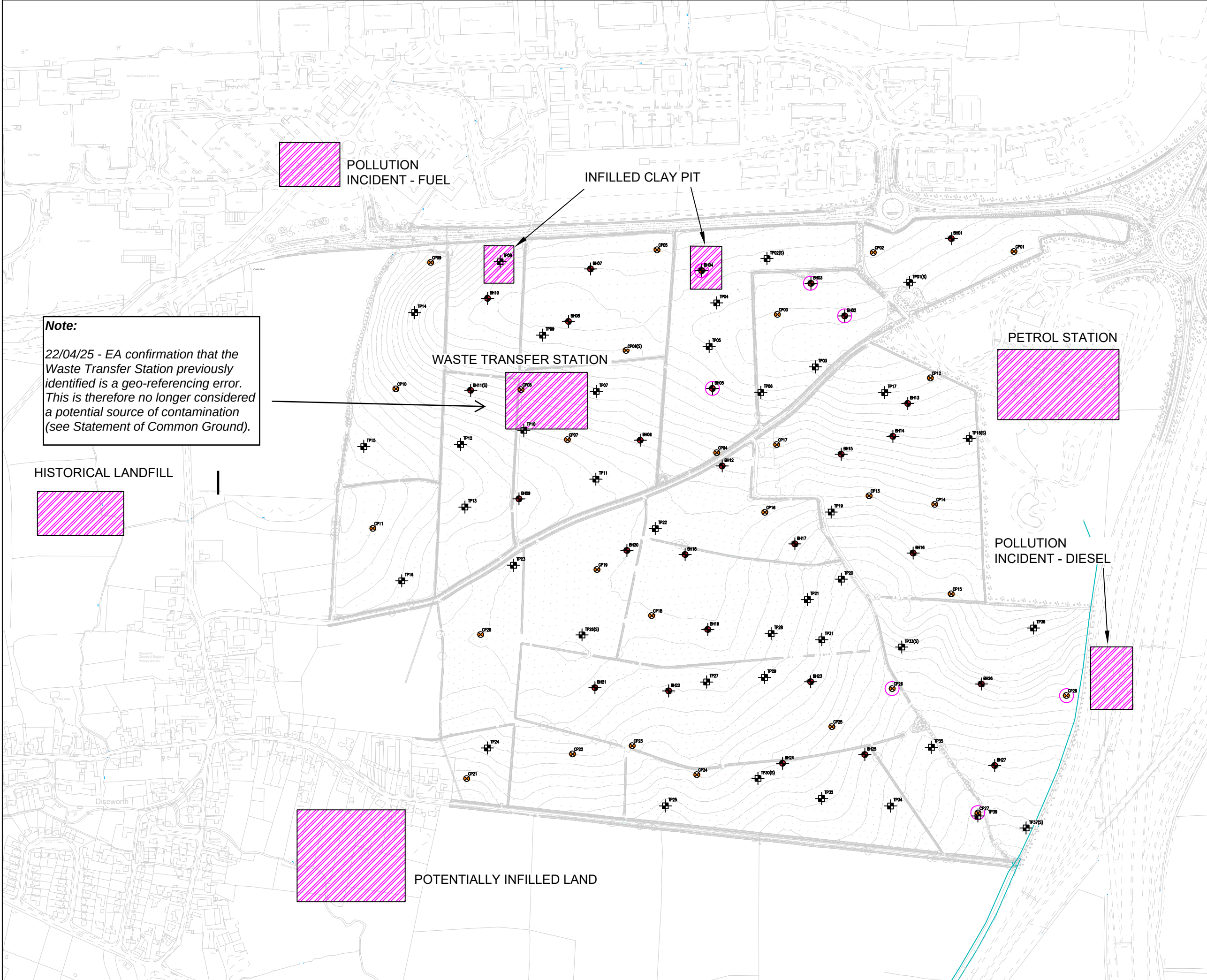
14

The East Midlands Gateway Phase 2
and Highway Order 202X and The East Midlands Gateway
Rail Freight and Highway (Amendment) Order 202X

[SEGRO.COM/SLPEMG2](https://segro.com/slpemg2)

SEGRO

Filename: C:\Users\pncourt\Documents\London Job\148749 EMG Phase 2 - 2023.05.31 Up To Date\148749 EMG Phase 2 - 9009 - Potential Sources Of Contamination Plan.dwg
Date: 09/06/23 13:30:43
Username: pncourt



Note:
22/04/25 - EA confirmation that the Waste Transfer Station previously identified is a geo-referencing error. This is therefore no longer considered a potential source of contamination (see Statement of Common Ground).

DO NOT SCALE FROM THIS DRAWING

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.
RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DAF001.
CONSTRUCTION

MAINTENANCE

RESIDUAL DESIGN RISKS

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE
IT IS ASSUMED THAT ALL WORKS WILL BE CARRIED OUT BY A COMPETENT CONTRACTOR WORKING, WHERE APPROPRIATE, TO AN APPROVED METHOD STATEMENT.

NOTES

1. DESIGNER TO SET OUT WORKS PRIOR TO CONSTRUCTION.
2. DO NOT SCALE FROM THIS DRAWING.
3. DRAWING TO BE REPRODUCED IN COLOUR.
4. ALL DIMENSIONS IN m UNLESS OTHERWISE STATED.
5. ALLOWANCE TO BE MADE FOR 10 NO. BRE365 SOAKAWAY TESTS WITHIN TRIAL PITS AND 6 NO. FALLING HEAD TESTS WITHIN ROTARY FOLLOW ON POSITIONS

BH0

ROTARY CORE BOREHOLE 30m

CP0

CABLE PERCUSSIVE BOREHOLE 15m

TP01

TRIAL PIT 3.5-4.0m

(S)

LOCATION OF SOAKAWAY

POTENTIAL SOURCE OF CONTAMINATION

Note:

Waste Transfer Station confirmed by EA as geo-referencing error (22/04/2025).

Rev	Date	Description	Drawn	Chkd	Appd
Drawing Status					

FOR INFORMATION

FAIRHURST

3rd Floor, The News Building, 3 London Bridge Street, London, SE1 9SG
Tel: 0141 204 8800 Fax: 0141 204 8801

SEGRO

Project Title

EMG PHASE 2

Drawing Title

EMG2 Works- Potential Sources of Contamination Plan

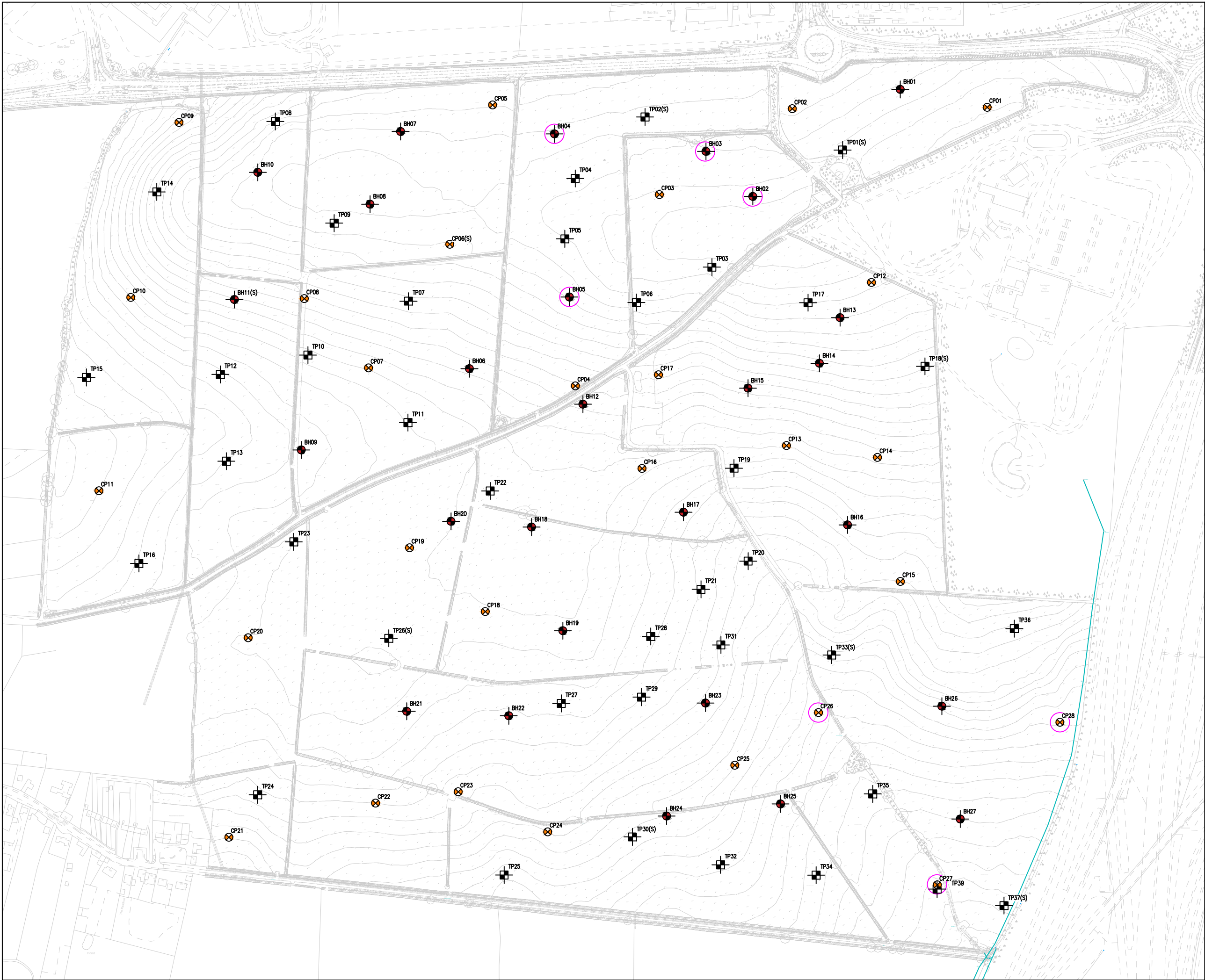
Drawn	Date	Designed	Date
P. MCCOURT	09/06/23		
Checked	Date	Approved	Date

A3	Scale	Fairhurst Ref	Revision
	NTS	148749	A

Drawing Number

Appendix 14M.1

Username: pmccourt Date: 11/5/23 13:54:58 Filename: C:\Users\pmccourt\Documents\London Job\148749 EMG Phase 2 - 2023.05.11 Up To Date\148749 EMG Phase 2 - 9001 - Exploratory Hole Location Plan.dwg



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SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

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CONSTRUCTION



MAINTENANCE



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-  ROTARY CORE BOREHOLE 30m
 CABLE PERCUSSIVE BOREHOLE 15m
 TRIAL PIT 3.5-4m
(S) LOCATION OF SOAKAWAY

A	01/12/22	UPDATE COORDINATES	PM	CB	CB
Rev	Date	Description	Drawn	Chkd	Appd

FOR INFORMATION

FAIRHURST
3rd Floor, The News Building, 3 London Bridge Street,
London, SE1 9SG
Tel: 0141 204 8800 Fax: 0141 204 8801

SEGRO

Project Title
EMG PHASE 2

Drawing Title
**EMG2 Works - Exploratory
Hole Location Plan**

Drawn P. MCCOURT	Date 26/05/22	Designed	Date
Checked	Date	Approved	Date

A3	Scale NTS	Fairhurst Ref 148749	Revision
----	--------------	-------------------------	----------

Drawing Number
Figure 14M.2

A

Filename: W:\Work\JobNumbers\148749 - EMG Phase 2 - WAF Prepared Data\2-30 Geotechnical\EAIES chapter\06. Fifth Issue 07 25\CAD Documents\148749 - EMG Phase 2 - 9005 - Cross-Section Plan.dwg
Date: 01/08/25
09:56:05
Username: cratcliff



DO NOT SCALE FROM THIS DRAWING

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

IN ADDITION TO THE HAZARD/RISKS NORMALLY ASSOCIATED WITH THE TYPES OF WORK DETAILED ON THIS DRAWING, NOTE THE FOLLOWING RISKS AND INFORMATION.

RISKS LISTED HERE ARE NOT EXHAUSTIVE. REFER TO DAF001.

CONSTRUCTION



MAINTENANCE



RESIDUAL DESIGN RISKS

FOR INFORMATION RELATING TO USE, CLEANING AND MAINTENANCE SEE THE HEALTH AND SAFETY FILE

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- NOTES
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- BHO ROTARY CORE BOREHOLE 30m
- CP0 CABLE PERCUSSIVE BOREHOLE 15m
- TP01 TRIAL PIT 3.5-4m
- (S) LOCATION OF SOAKAWAY

B	31/07/25	UPDATED DESIGN.	CR	SM	SM
A	01/12/22	UPDATE COORDINATES	PM	CB	CB
Rev	Date	Description	Drawn	Chkd	Appd

Drawing Status

FOR INFORMATION

FAIRHURST

3rd Floor, The News Building, 3 London Bridge Street, London, SE1 9SG
Tel: 0141 204 8800 Fax: 0141 204 8801

SEGRO

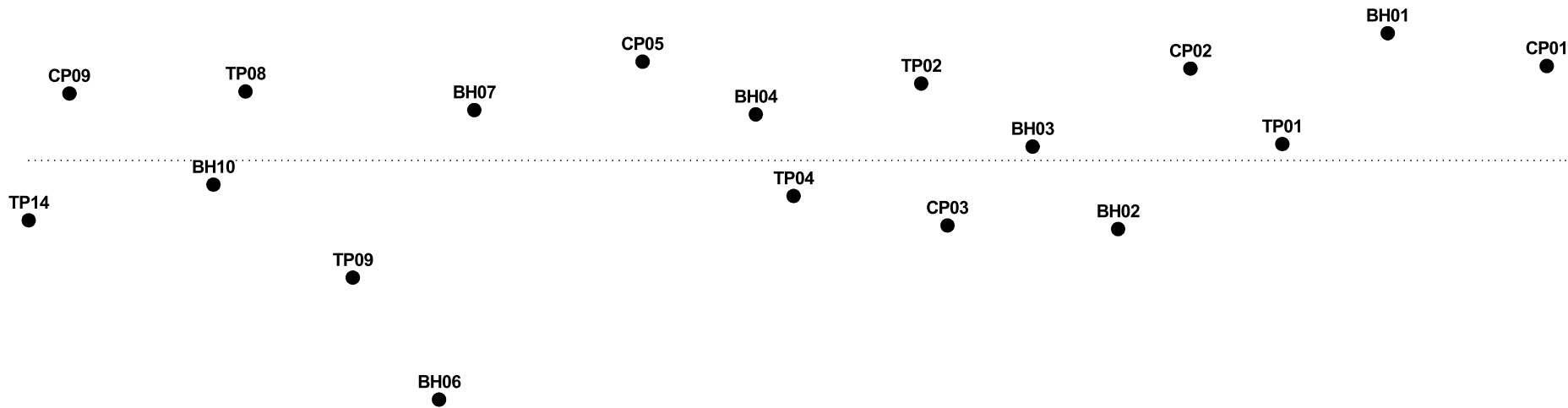
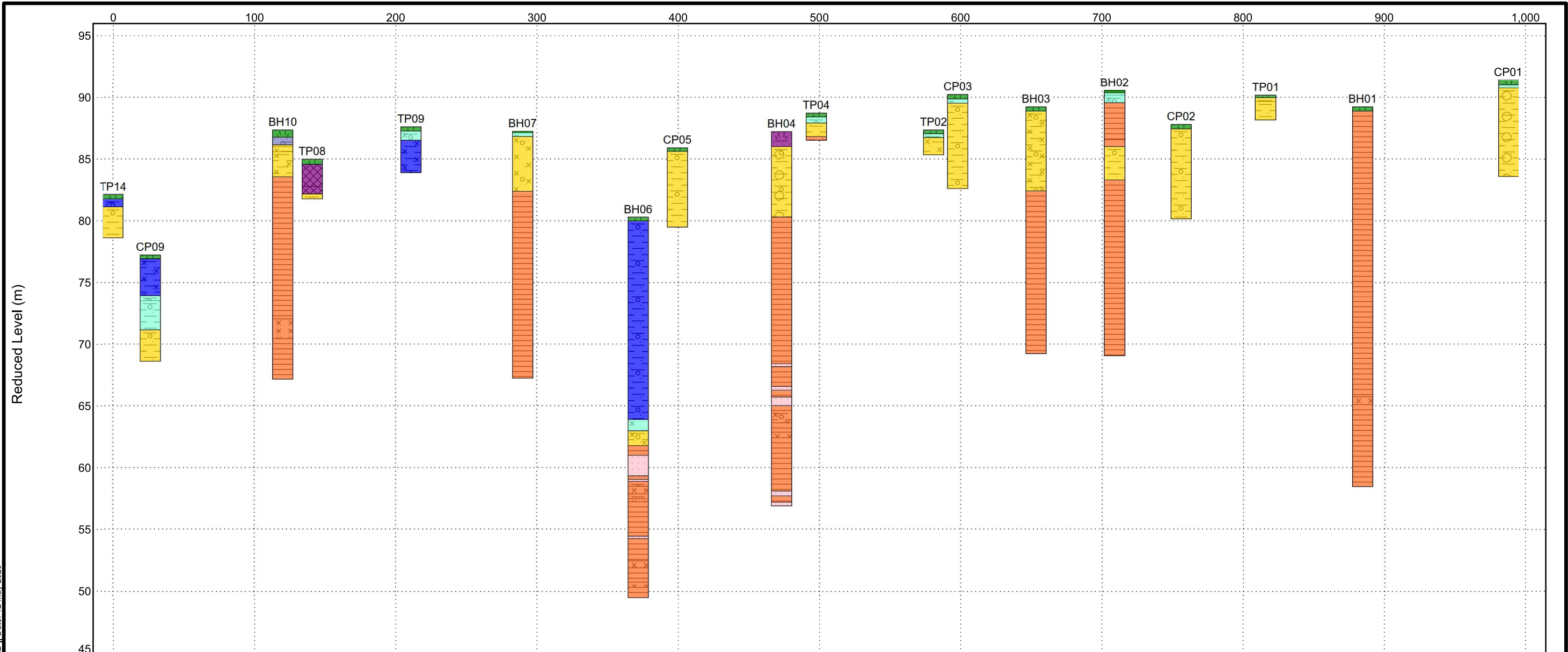
Project Title
EMG PHASE 2

Drawing Title
**Figure 14M.3 - EMG2 Works
Cross Sections Plan and
Corresponding Cross Sections**

Drawn P. MCCOURT	Date 26/05/22	Designed	Date
Checked	Date	Approved	Date
A3	Scale NTS	Fairhurst Ref 148749	Revision B
Drawing Number 148749 - 9005			

Report ID: AGS4 LITHOLOGY SITEMAP - A3 || Project: 148749 EMG PHASE 2.GPJ || Library: GINT STD AGS 4_0.GLB || Date: 12 May 2023

PLAN VIEW



Fairhurst
The Harequin Building
65 Southwark Street
London
SE1 0HR
Tel: 020 7828 8205
Email: paul.mccourt@fairhurst.co.uk

LITHOLOGY GRAPHICS

TOPSOIL	MUDSTONE	SILTSTONE	Sandy gravelly cobbly CLAY	Silty sandy gravelly CLAY
NO RECOVERY	Sandy gravelly CLAY	SANDSTONE	Sandy SILT	Sandy CLAY
Sandy gravelly SILT	Clayey gravelly SAND	Silty sandy CLAY	Clay/Silt	Silty CLAY

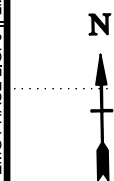
OADBY MEMBER	SANDSTONE - GUNTHORPE MEMBER
Glaciofluvial Till (Granular)	WEATHERED GUNTHORPE MEMBER (Mercia Mudstone)
GLACIOFLUVIAL FILL (Cohesive)	GUNTHORPE MEMBER (Mercia Mudstone)
TOPSOIL	MADE GROUND

GEOLOGICAL CROSS-SECTION - FIGURE A-A

Client: SEGRO
Project: EMG Phase 2
Figure 14M.3.1

Report ID: AGS4 LITHOLOGY SITEMAP - A3 || Project: 144749 EMG PHASE 2.GPJ || Library: GINT STD AGS 4_0.GLB || Date: 12 May 2023

PLAN VIEW



TP15

CP10

BH11

TP12

TP10

CP07

TP07

TP11

CP06

BH06

BH05

CP04

BH12

TP06

CP17

TP03

BH15

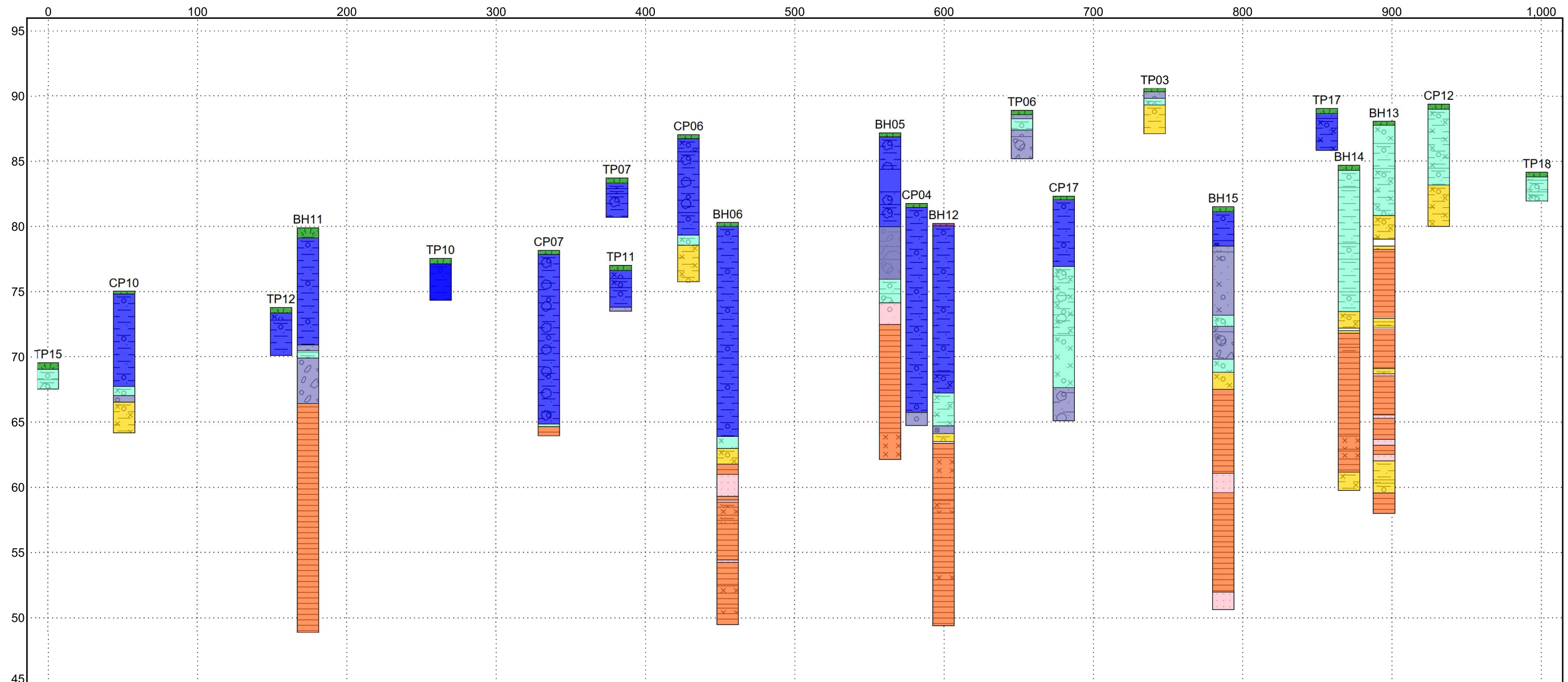
TP17

BH13

CP12

TP18

Reduced Level (m)



LITHOLOGY GRAPHICS

TOPSOIL	Sandy gravelly cobbly CLAY	VOID	Gravelly cobbly SAND	Clayey sandy GRAVEL
BOULDERS	Cobbly GRAVEL	Sandy gravelly CLAY	Gravelly SAND	MUDSTONE
SILTSTONE	Sandy SILT	Silty sandy gravelly CLAY	SANDSTONE	Sandy CLAY

GEOLOGICAL CROSS-SECTION - FIGURE B-B

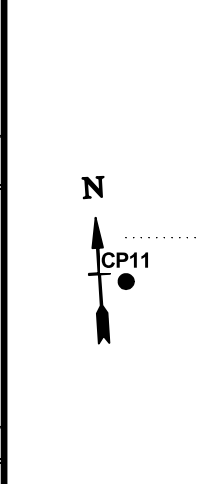
Client: SEGRO
Project: EMG Phase 2
Figure 14M.3.2

FAIRHURST

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Report ID: AGS4 LITHOLOGY SITEMAP - A3 || Project: 148749 EMG PHASE 2 GPJ || Library: GINT STD AGS 4 0.GLB || Date: 12 May 2023

PLAN VIEW





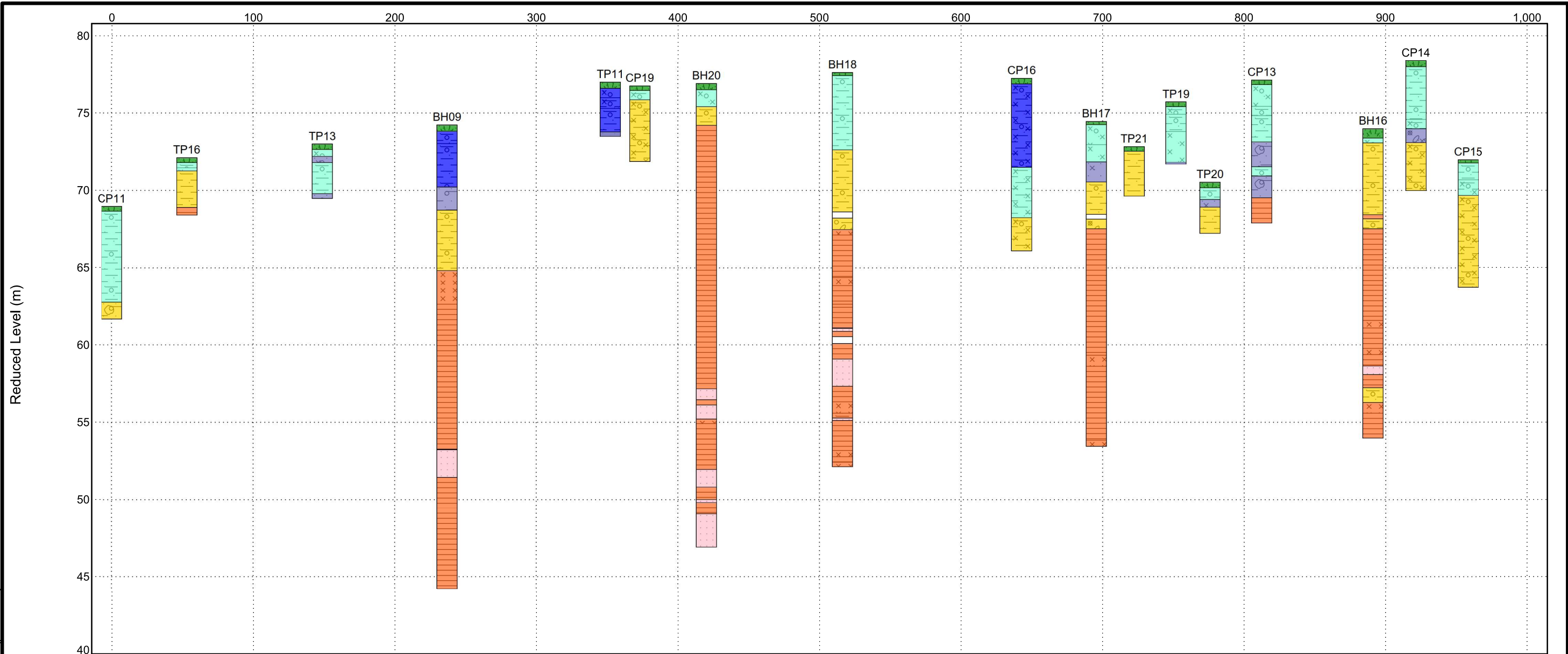
Fairhurst
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65 Southwark Street
London
SE1 0HR
Tel: 020 7828 8205
Email: paul.mccourt@fairhurst.co.uk

LITHOLOGY GRAPHICS

TOPSOIL	Sandy gravelly CLAY	Clayey gravelly SAND	SILTSTONE	MUDSTONE
SANDSTONE	Sandy gravelly SILT	Sandy SILT	Silty SAND	VOID
Silty sandy GRAVEL	Clayey GRAVEL	Sandy CLAY	sandy, clayey, cobbly, GRAVEL	

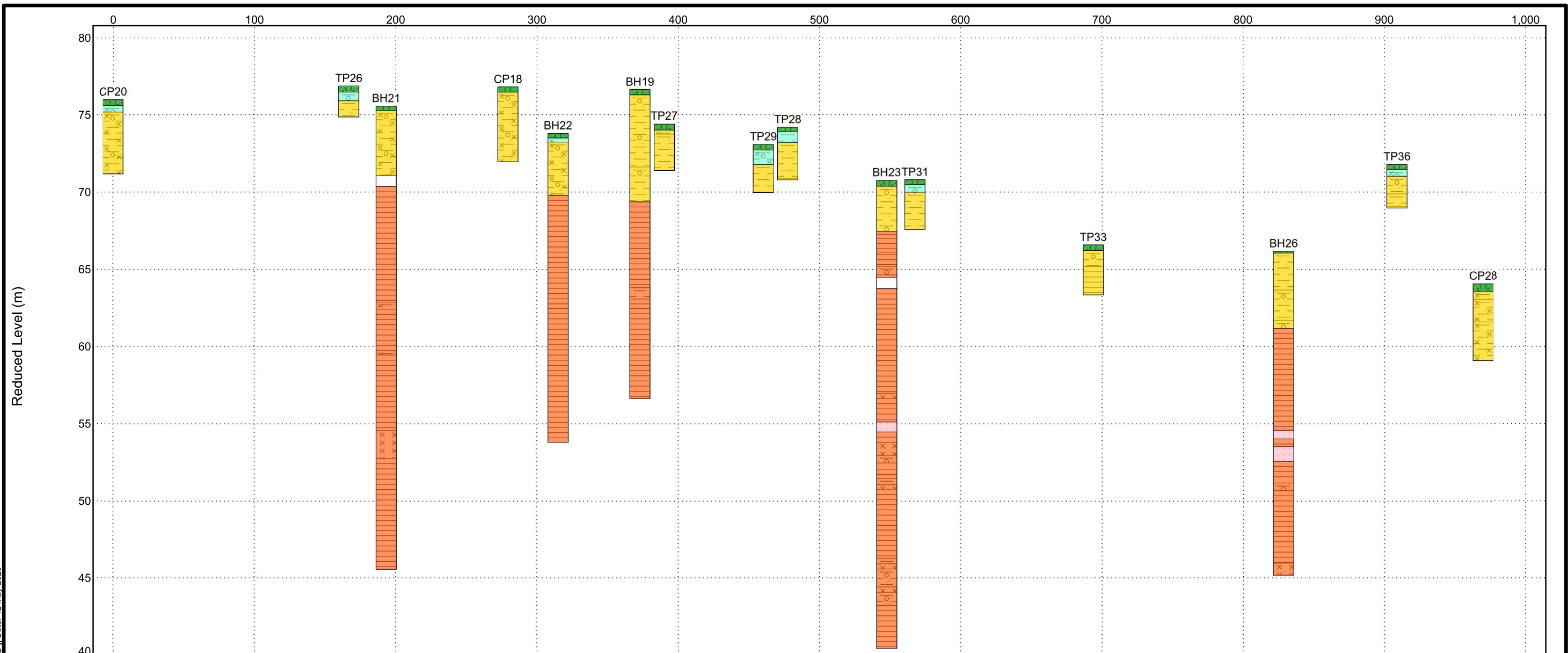
GEOLOGICAL CROSS-SECTION - FIGURE C-C

Client: SEGRO
Project: EMG Phase 2
Figure 14M.3.3



Report ID: AGS4 LITHOLOGY SITEMAP - A3 || Project: 148749 EMG PHASE 2.GPJ || Library: GINT STD AGS 4_0.GLB || Date: 12 May 2023

PLAN VIEW



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Email: paul.mccourt@fairhurst.co.uk

LITHOLOGY GRAPHICS

TOPSOIL	Sandy gravelly CLAY	Gravelly CLAY	MUDSTONE	CLAY
Silty sandy gravelly CLAY	VOID	Silty CLAY	SILTSTONE	Sandy gravelly SILT
SANDSTONE		Sandy CLAY		

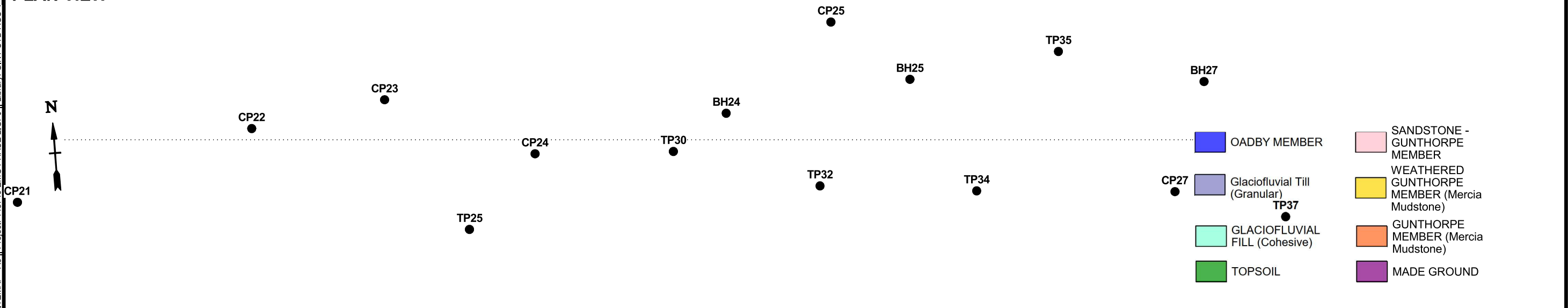
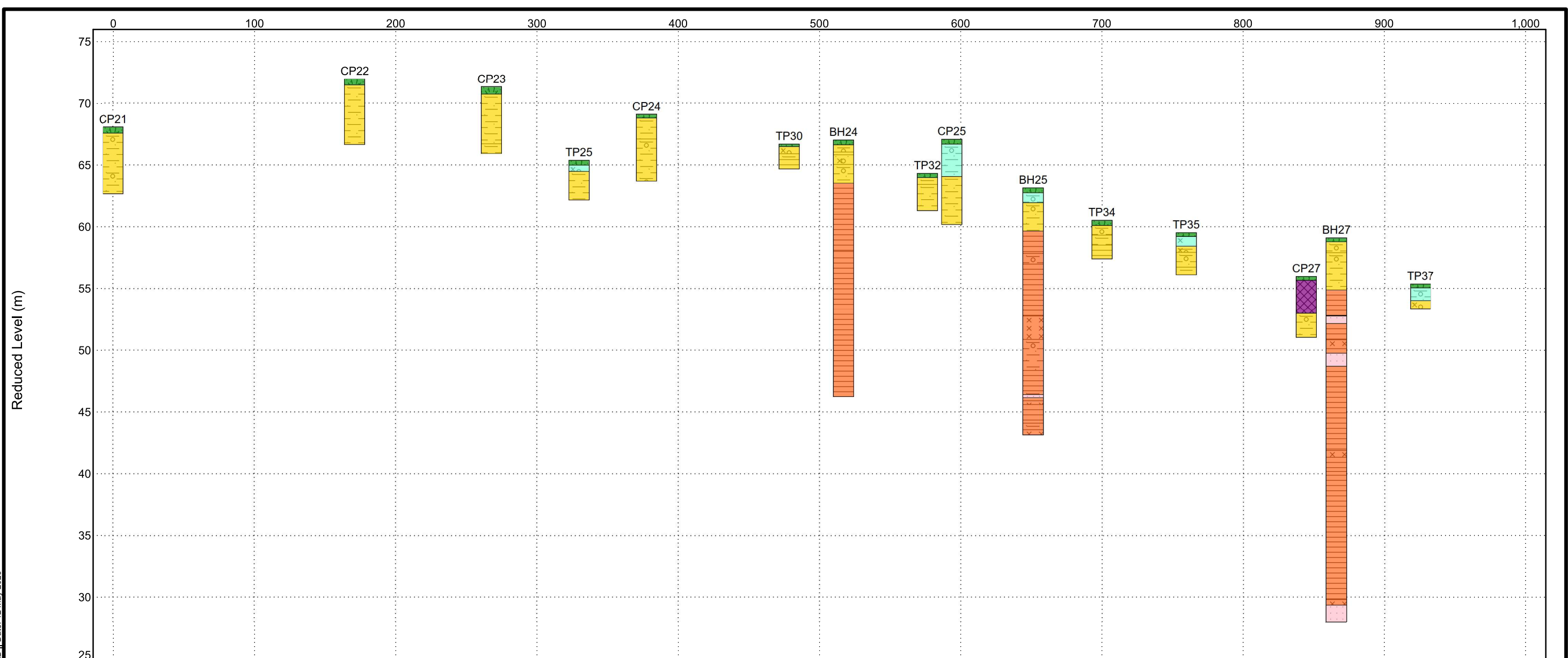
GEOLOGICAL CROSS-SECTION - FIGURE D -D

Client: SEGRO
Project: EMG Phase 2
Figure 14M.3.4

OADBY MEMBER	SANDSTONE - GUNTHORPE MEMBER
Glaciofluvial Till (Granular)	WEATHERED GUNTHORPE MEMBER (Mercia Mudstone)
GLACIOFLUVIAL FILL (Cohesive)	GUNTHORPE MEMBER (Mercia Mudstone)
TOPSOIL	MADE GROUND

Report ID: AGS4 LITHOLOGY SITEMAP - A3 || Project: 148749 EMG PHASE 2.GPJ || Library: GINT STD AGS 4_0.GLB || Date: 12 May 2023

PLAN VIEW



Fairhurst
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65 Southwark Street
London
SE1 0HR
Tel: 020 7828 8205
Email: paul.mccourt@fairhurst.co.uk

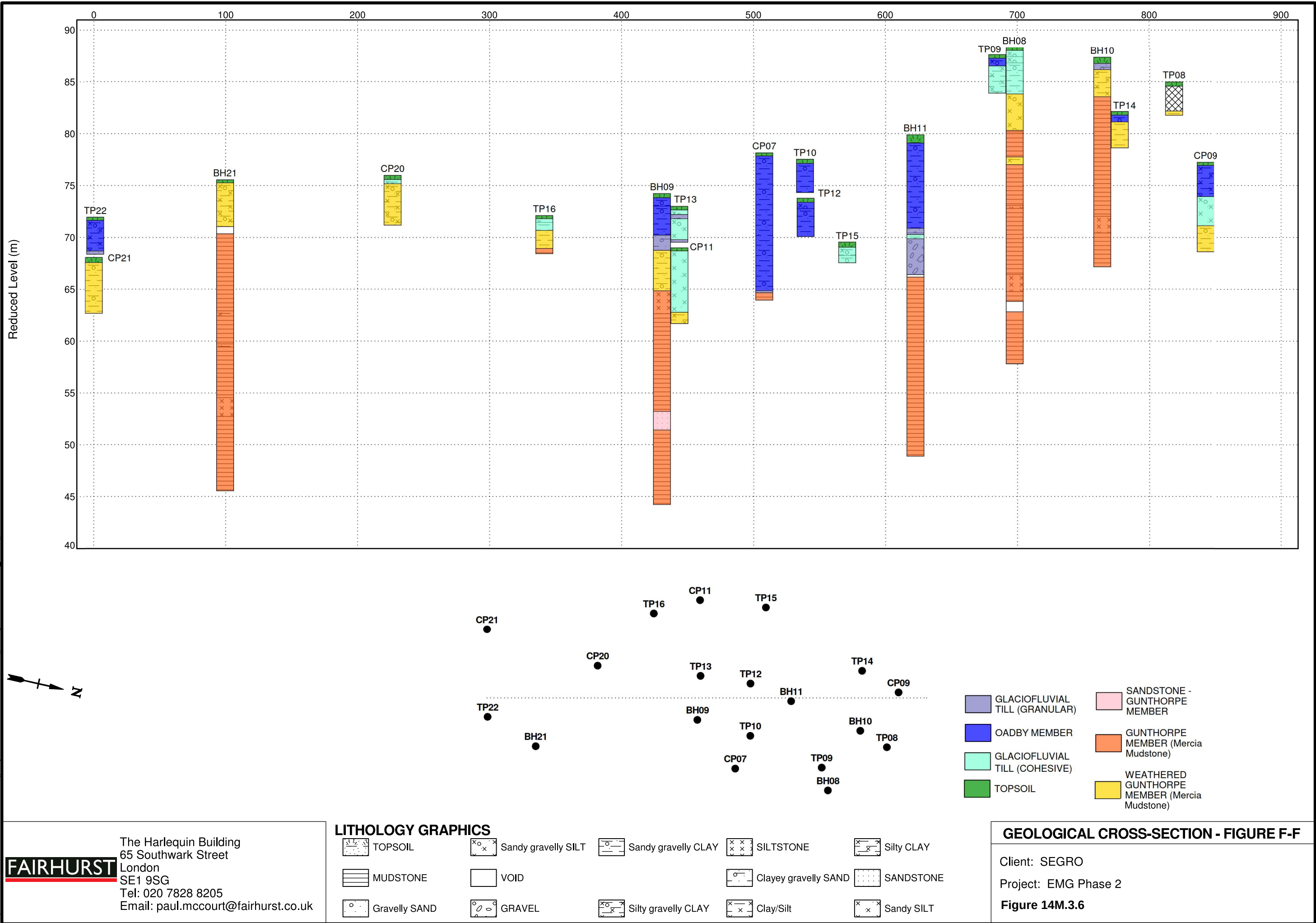
LITHOLOGY GRAPHICS

TOPSOIL	Gravelly CLAY	Sandy gravelly CLAY	Silty gravelly SAND	MUDSTONE
VOID	SILTSTONE	Sandy CLAY	SANDSTONE	MADE GROUND
Sandy gravelly SILT	Sandy SILT	Silty sandy gravelly CLAY	CLAY	

GEOLOGICAL CROSS-SECTION - FIGURE E-E

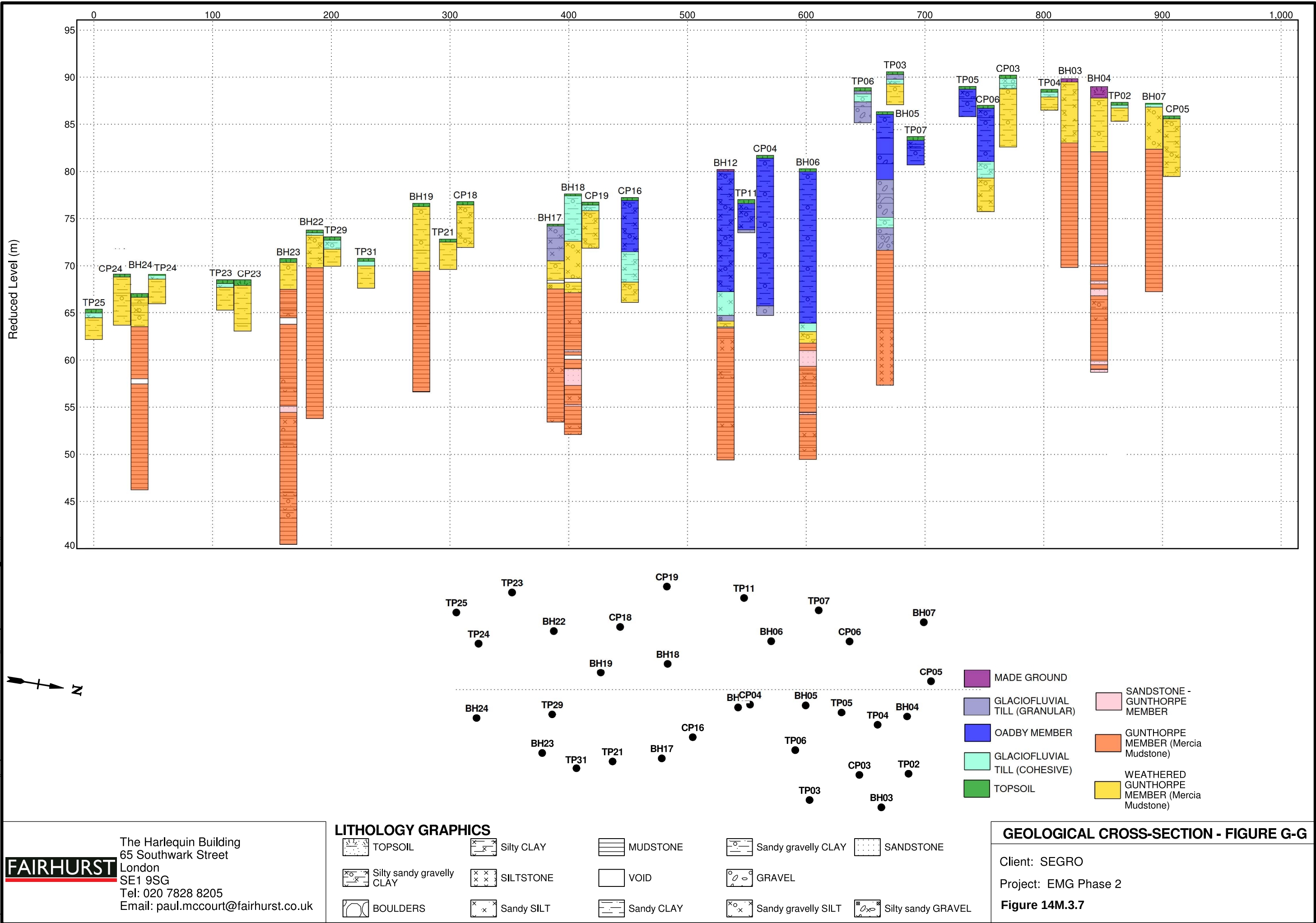
Client: SEGRO
Project: EMG Phase 2
Figure 14M.3.5

Report ID: AGS4 LITHOLOGY SITEMAP - A3 || Project: 148749 EMG PHASE 2.GPJ || Library: GINT STD AGS 4 0.GLB || Date: 21 December 2022

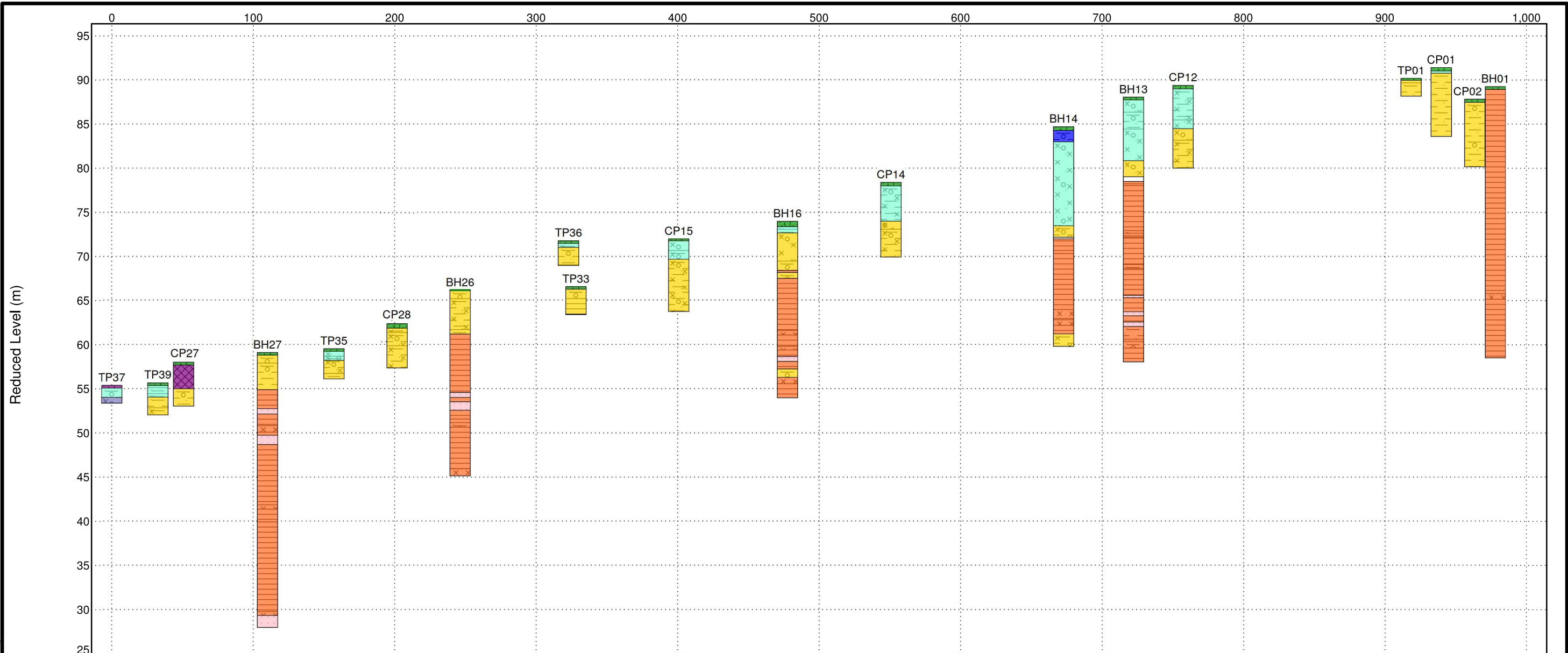


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Email: paul.mccourt@fairhurst.co.uk

Report ID: AGS4 LITHOLOGY SITEMAP - A3 || Project: 148749 EMG PHASE 2.GPJ || Library: GINT STD AGS 4 0.GLB || Date: 21 December 2022



Report ID: AGS4 LITHOLOGY SITEMAP - A3 || Project: 148749 EMG PHASE 2.GPJ || Library: GINT STD AGS 4 0.GLB || Date: 21 December 2022



FAIRHURST

The Harlequin Building
65 Southwark Street
London
SE1 9SG
Tel: 020 7828 8205
Email: paul.mccourt@fairhurst.co.uk

LITHOLOGY GRAPHICS

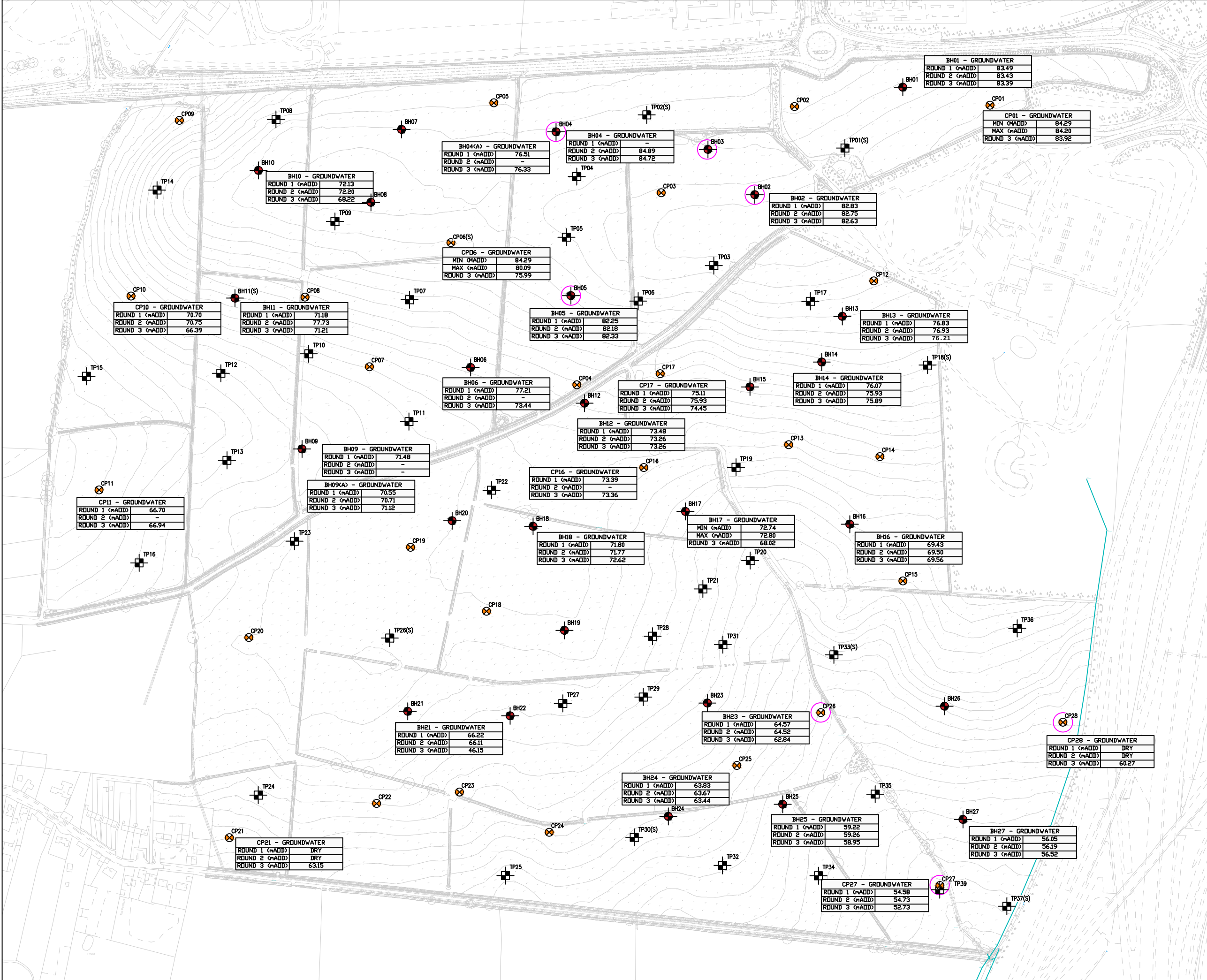
TOPSOIL	MUDSTONE	SILTSTONE	Sandy gravelly SILT	Sandy gravelly CLAY
VOID	Clayey GRAVEL	Sandy GRAVEL	Gravelly SILT	SANDSTONE
Sandy CLAY	Sandy SILT	Silty gravelly CLAY	Silty CLAY	CLAY

MADE GROUND	SANDSTONE - GUNTHORPE MEMBER
GLACIOFLUVIAL TILL (GRANULAR)	GUNTHORPE MEMBER (Mercia Mudstone)
OADBY MEMBER	WEATHERED GUNTHORPE MEMBER (Mercia Mudstone)
GLACIOFLUVIAL TILL (COHESIVE)	
TOPSOIL	

GEOLOGICAL CROSS-SECTION - FIGURE H-H

Client: SEGRO
Project: EMG Phase 2
Figure 14M.3.8

Filename: C:\Users\pincourt\Documents\London Jobs\148749 EMG Phase 2 - 2023.05.11 Up To Date\148749 EMG Phase 2 - 9003 - Groundwater Levels Plan.dwg Date: 11/5/23 14:02:33 Username: pincourt



DO NOT SCALE FROM THIS DRAWING

SAFETY HEALTH AND ENVIRONMENTAL INFORMATION

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CONSTRUCTION

MAINTENANCE

RESIDUAL DESIGN RISKS

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4. ALL DIMENSIONS IN m UNLESS OTHERWISE STATED.

5. ALLOWANCE TO BE MADE FOR 10 NO. BRE365 SOAKAWAY TESTS WITHIN TRIAL PITS AND 6 NO. FALLING HEAD TESTS WITHIN ROTARY FOLLOW ON POSITIONS

BH0

ROTARY CORE BOREHOLE 30m

CP0

CABLE PERCUSSIVE BOREHOLE 15m

TP01

TRIAL PIT 3.5-4m

(S)

LOCATION OF SOAKAWAY

Rev	Date	Description	Drawn	Chkd	Appd

Drawing Status

FOR INFORMATION

FAIRHURST

3rd Floor, The News Building, 3 London Bridge Street, London, SE1 9SG
Tel: 0141 204 8800 Fax: 0141 204 8801

SEGRO

EMG PHASE 2

EMG2 Works Groundwater Levels Plan

Drawn

P. MCCOURT

Checked

A3

Date

19/12/22

Date

Scale

NTS

Designed

Approved

Fairhurst Ref

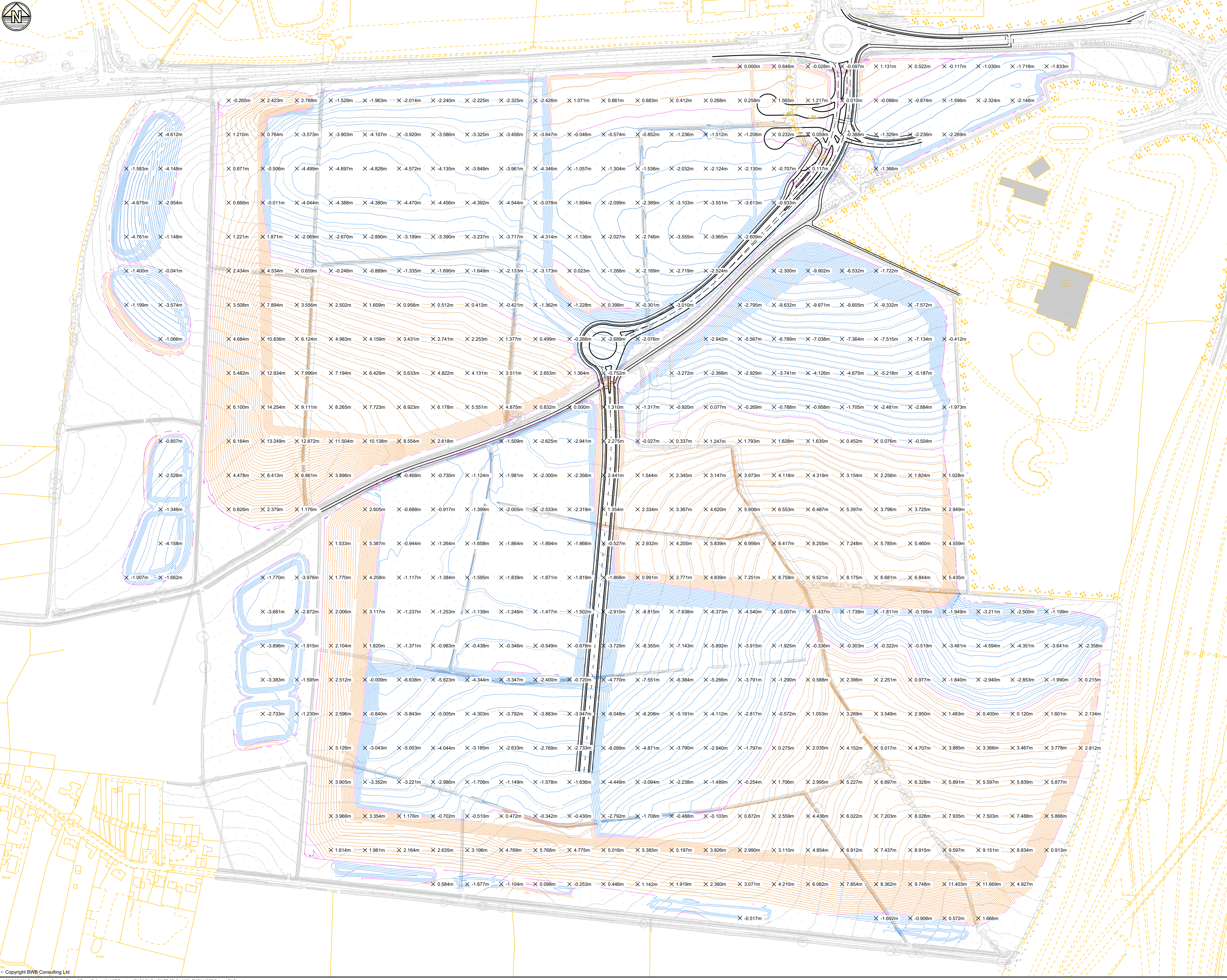
148749

Date

Date

Revision

Figure 14M.4



- Notes**
1. Do not scale this drawing. All dimensions must be checked / verified on site. If in doubt ask.
 2. This drawing is to be read in conjunction with all relevant engineers and specialists drawings and specifications.
 3. All dimensions in metres unless noted otherwise. All levels in metres unless noted otherwise.
 4. Any discrepancies noted on site are to be reported to the engineer immediately.

- Legend**
- 0.5m Contour - Cut
 - 1m Contour - Cut
 - Balanced Contour
 - 0.5m Contour - Fill
 - 1m Contour - Fill

The earthworks cut and fill assessment is based on a comparison of existing ground levels against the proposed earthworks levels across the site. The assessment includes topsoil material.

Bulk excavation volume: 1,337,000m³
Bulk fill volume: 1,453,000m³
Bulk Deficit: 116,000m³
Allowance for arisings from development construction at 1,250m³/ha: 99,000m³
Overall cut and fill balance: 17,000m³ deficit which is well within the tolerance for major earthworks for a balanced site

P04	24.07.25	Drawing title amended	SRH	SRH
P03	17.06.25	Updates to Quantities	JFP	SRH
P02	20.01.25	Updates for Changed Finished Levels	JFP	SRH
P01	26.07.24	For information	KB	SRH
Rev	Date	Details of issue / revision	Drw	Rev

Issues & Revisions

BWB
A GAF GROUP COMPANY

- ☐ Birmingham | 0121 233 3322
- ☐ Leeds | 0113 233 8000
- ☐ London | 020 7407 3879
- ☐ Manchester | 0161 233 4260
- ☒ Nottingham | 0115 924 1100

www.bwbconsulting.com

Client

SEGRO

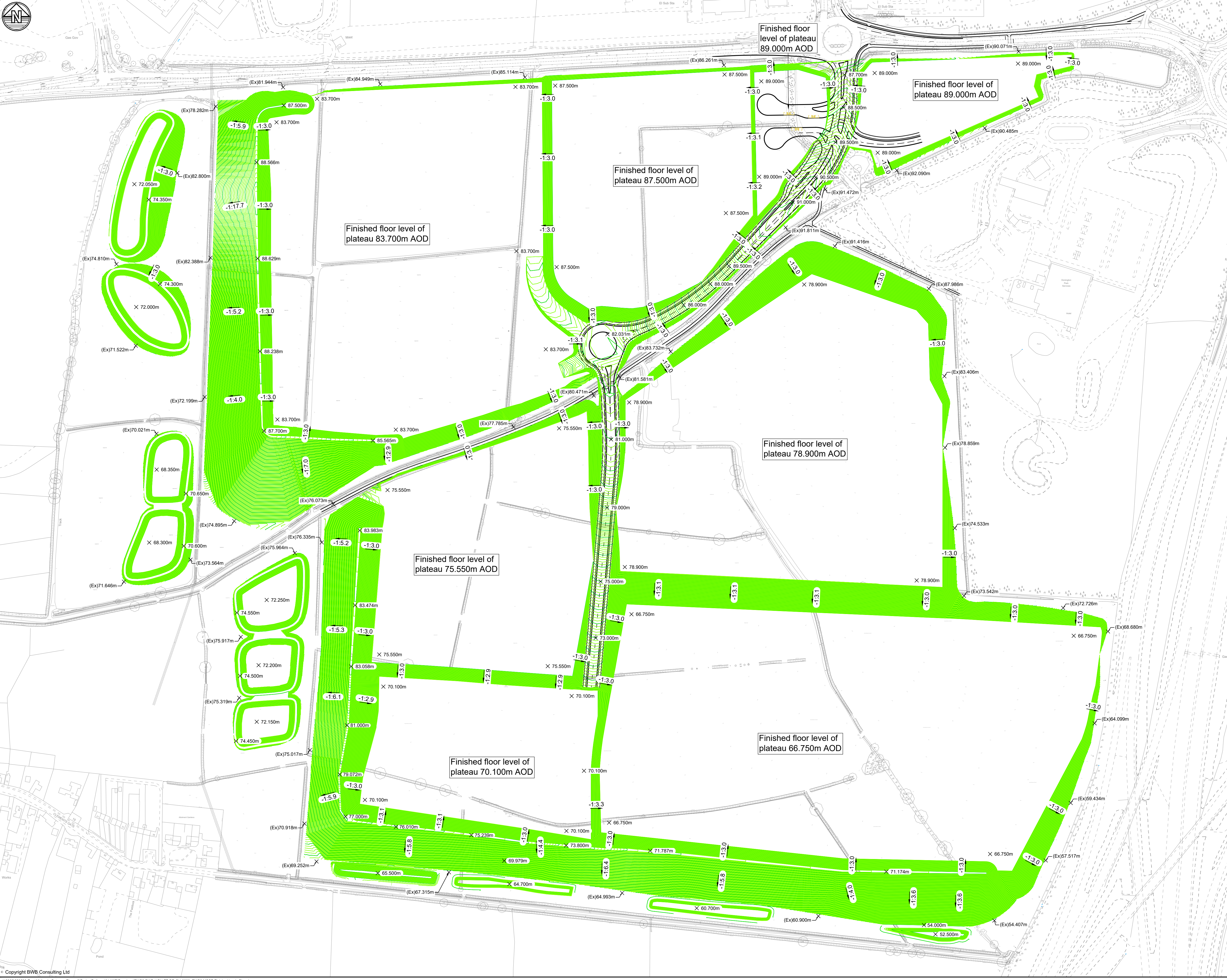
Project Title

EAST MIDLANDS GATEWAY 2

Drawing Title

EMG2 MAIN SITE AND COMMUNITY PARK APPENDIX 14M FIGURE 5 - CUT AND FILL PLAN

Drawn:	K.Bassi	Reviewed:	S.Hilditch
BWB Ref:	220500	Date:	26.07.24
Scale@A1:	1:2000		
Drawing Status			
FOR INFORMATION			
Project - Originator - Zone - Level - Type - Role - Number	Status	Rev	
EMG2-BWB-GEN-ZZ-DR-CH-0620	S2	P04	



- Notes**
1. Do not scale this drawing. All dimensions must be checked / verified on site. If in doubt ask.
 2. This drawing is to be read in conjunction with all relevant engineers and specialists drawings and specifications.
 3. All dimensions in metres unless noted otherwise. All levels in metres unless noted otherwise.
 4. Any discrepancies noted on site are to be reported to the engineer immediately.

Legend

0.100	0.1m Contour - Finished Ground Level
0.500	0.5m Contour - Finished Ground Level
X 0.534m	Ground Levels
X (Ex)0.534m	Existing Ground Levels
1:2.0 / 4.0%	Ground Slope

P08	24.07.25	Drawing title amended	SRH	SRH
P07	24.04.25	Levels updated	JFP	SRH
P06	11.04.25	Levels updated	JFP	SRH
P05	02.04.25	Levels updated	JFP	SRH
P04	29.11.24	Levels updated	JFP	RAL
P03	29.11.24	Levels updated	JFP	RAL
P02	29.11.24	Levels updated	JFP	RAL
P01	26.07.24	For information	KB	SRH
Rev	Date	Details of issue / revision	Drw	Rev

Issues & Revisions

BWB
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☐ Leeds | 0113 233 8000
☐ London | 020 7407 3879
☐ Manchester | 0161 233 4260
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www.bwbconsulting.com

Client

SEGRO

Project Title

**EAST MIDLANDS
GATEWAY 2**

Drawing Title

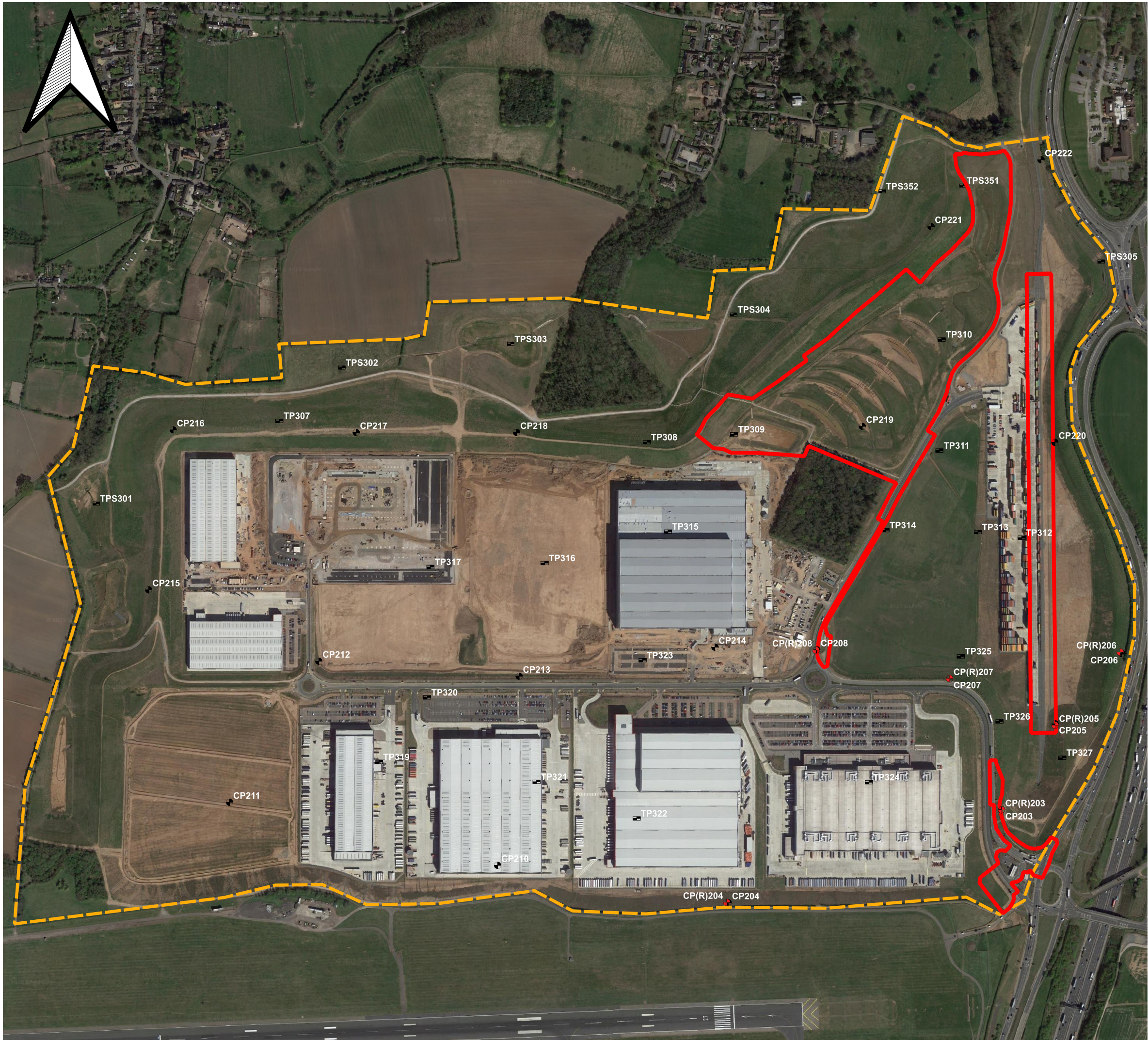
**EMG2 MAIN SITE AND
COMMUNITY PARK
APPENDIX 14M FIGURE 6 -
FINISHED LEVELS PLAN**

Drawn:	K.Bassi	Reviewed:	S.Hilditch
BWB Ref:	220500	Date:	26.07.24
Scale:	A1: 1:2000		

Drawing Status

FOR INFORMATION

Project - Originator - Zone - Level - Type - Role - Number	Status	Rev
EMG2-BWB-GEN-ZZ-DR-CH-0600	S2	P08

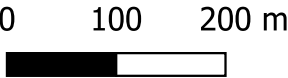


Legend

- Rotary Boreholes
- Cable Percussive Boreholes
- Mechanically Excavated Trial Pits
- EMG1 DCO ORDER LIMITS
- EMG1 MCO ORDER LIMITS

Google Satellite Imagery

Note: Intrusive Investigation completed by RSK Ltd between September and October 2013



FAIRHURST

Project Title
East Midlands Gateway Phase 2

Drawing Title
EMG1 Works - Exploratory Hole Location Plan

Project Number	148749
Drawn By	Sophie Murray
Checker/Approver	Dicken Maclean

Drawing number	Rev
----------------	-----

Figure 14M.7	00
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Key

- Major Cut Isopachytes at 1m intervals
- Minor Cut Isopachytes at 0.5m intervals
- Major Fill Isopachytes at 1m intervals
- Minor Fill Isopachytes at 0.5m intervals
- Balanced Isopachytes Line
- Indicative location of retaining wall



Notes

- Do not scale this drawing. All dimensions must be checked/ verified on site. If in doubt ask.
- This drawing is to be read in conjunction with all relevant architects, engineers and specialists drawings and specifications.
- All dimensions in millimetres unless noted otherwise. All levels in metres unless noted otherwise.
- Any discrepancies noted on site are to be reported to the engineer immediately.

Earthworks Notes

Important Earthwork Notes

- This assessment is based upon the as built topographical survey 'EMG Contract 1 Asbuilt.dwg'
- This assessment has been provided by BWB for guidance only. Details have been based on high level assumptions and approximation of finished ground levels and will be subject to change when designed in detail.
- A typical construction depth of 450mm has been assumed for the site.
- For the purpose of this earthworks assessment it is assumed an initial 300mm scrape of the ground would be necessary to achieve a suitable starter layer. This generates a total volume of material:

85,000m² x 0.300m = **25,500m³**

Bulk Cut / Fill Earthworks

- The approximate Bulk Earthworks has been calculated from Existing Ground Levels to the Proposed Formation Levels

	Cut	Fill
Bulk Earthworks	63,500	151,500
Net		88,000m ³ (deficit)

Arisings

- An allowance should be made for construction arisings. In the absence of detailed design arisings have been calculated at an arising rate of 1500m³/ha. This equates to approximately **12,750m³** of arisings.

Intermodal Area Deposition Strategy

- Currently the site area is allocated for deposition of surplus material generated from the proposed Intermodal Area development across the road. It is anticipated that this surplus equates to approx. **100,268m³**.

Additional Deposition Zones

Total Stockpile Capacity of the southern deposition Zone A: **-60,000m³**

Total Stockpile Capacity of the northern deposition Zone B: **-27,900m³**

Earthworks Summary

Topsoil Site Strip	+25,500m³
Arisings	+12,750m³
Intermodal Deposition	+100,268m³
Additional Deposition*	-87,900m³
Deficit Bulk Earthworks	-88,000m³
Total Net Deficit	-37,382m³

*Capacity of the additional deposition zones can be reduced to balance earthwork volumetrics.

P03	24.07.25	Drawing title amended	SRH	SRH
P02	06.11.23	Sketch updated to suit latest masterplan changes	HP	JS
P01	02.10.23	Sketch issue for comment	JMB	JS
Rev	Date	Details of issue / revision	Drw	Rev

Issues & Revisions



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Client

SEGRO

Project Title

**EAST MIDLANDS
GATEWAY RAIL FREIGHT
INTERCHANGE**

Drawing Title

**EMG1 PLOT 16
APPENDIX 14M FIGURE 8
EARTHWORKS STRATEGY**

Drawn:	J. Barrett	Reviewed:	J. Slater
BWB Ref:	NTH 209	Date:	02.10.23
Scale:	A1: 1:1000		
Drawing Status	SKETCH		
Project - Originator - Zone - Level - Type - Role - Number	Status	Rev	
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