

APPENDIX A

As-Built Earthwork Drawings and Lagoon Survey

DRAWING REGISTER & RECORD OF DRAWINGS ISSUED



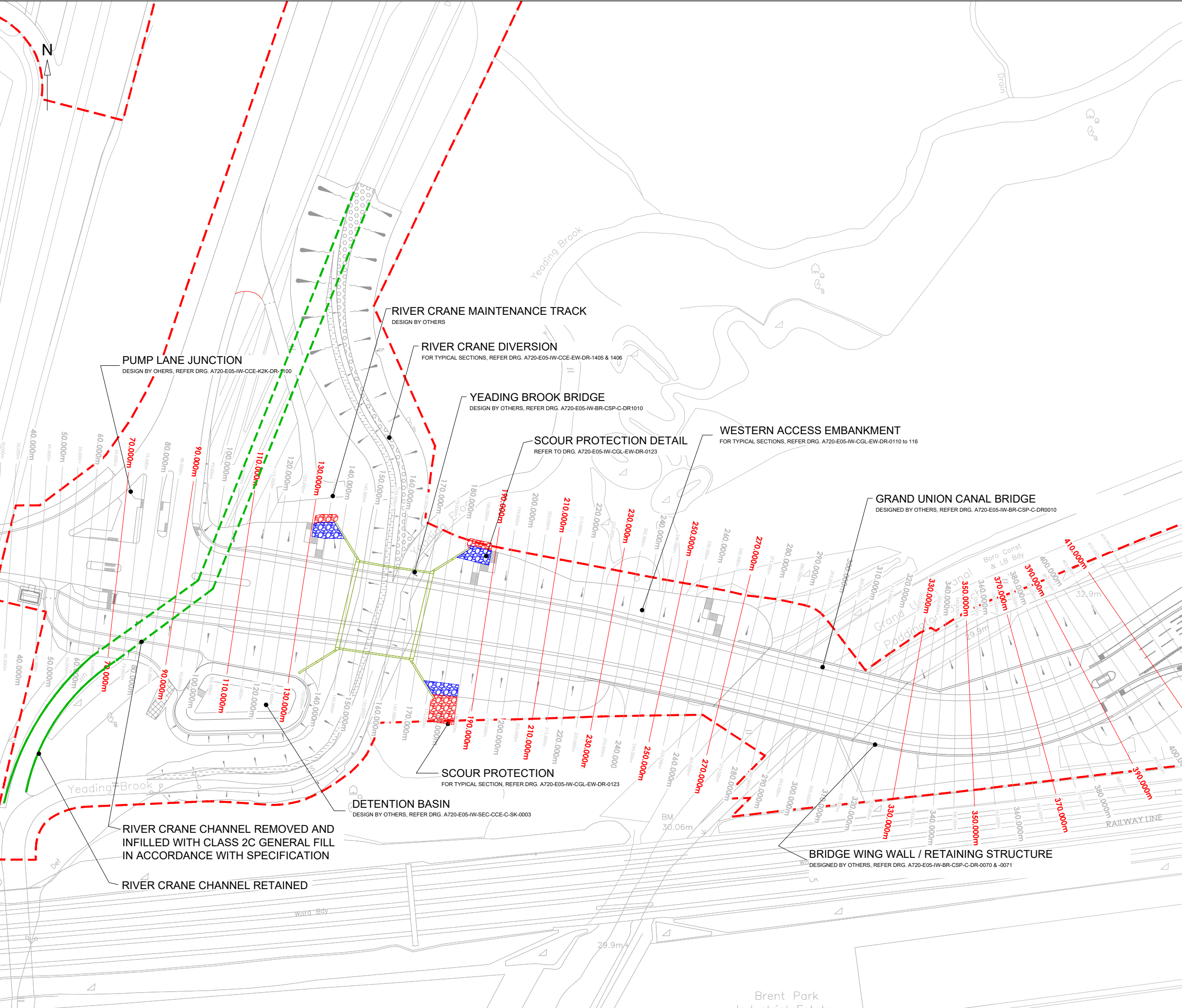
All issues are paper copies unless stated otherwise.

We enclose copies of the drawings as noted below and confirm their issue to yourselves.

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PROJECT No.	CGN/03732-	SHEET No.	1 of 1
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PROJECT			DATE					
Western Access	Day	21	20					
	Month	09	04					
	Year	20	21					
DRAWING TITLE	DWG. No.	REVISIONS						
Earthworks General Arrangement	A720-E05-IW-CGL-EW-DR-0100	C4						
Geological Cross Section	A720-E05-IW-CGL-EW-DR-0101	C4						
Longitudinal Section	A720-E05-IW-CGL-EW-DR-0102	C4						
Generalised Earthwork Sections – Sheet 1 of 7	A720-E05-IW-CGL-EW-DR-0110		C4					
Generalised Earthwork Sections – Sheet 2 of 7	A720-E05-IW-CGL-EW-DR-0111		C4					
Generalised Earthwork Sections – Sheet 3 of 7	A720-E05-IW-CGL-EW-DR-0112		C4					
Generalised Earthwork Sections – Sheet 4 of 7	A720-E05-IW-CGL-EW-DR-0113		C4					
Generalised Earthwork Sections – Sheet 5 of 7	A720-E05-IW-CGL-EW-DR-0114		C4					
Generalised Earthwork Sections – Sheet 6 of 7	A720-E05-IW-CGL-EW-DR-0115		C4					
Generalised Earthwork Sections – Sheet 7 of 7	A720-E05-IW-CGL-EW-DR-0116		C4					
Earthwork Detail – Embankment Scour Protection	A720-E05-IW-CGL-EW-DR-0123	C6						
Tree Pit Benching Details	A720-E05-IW-CGL-EW-DR-0124	C2						
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FMC – Derek Daly, Trevor Cole, Rob Lyne, Ed Anscombe, Ian Rothery, Dean Sporn, Jon Relph, Wellington Takundwa		✓						
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EA – Jenn Thomas, Keith Spence		✓						
Ramboll Environ – Matthew Pannett, Charles Collins		✓						
NOTES								
1) All drgs issued in PDF format by Aconex unless otherwise stated.								
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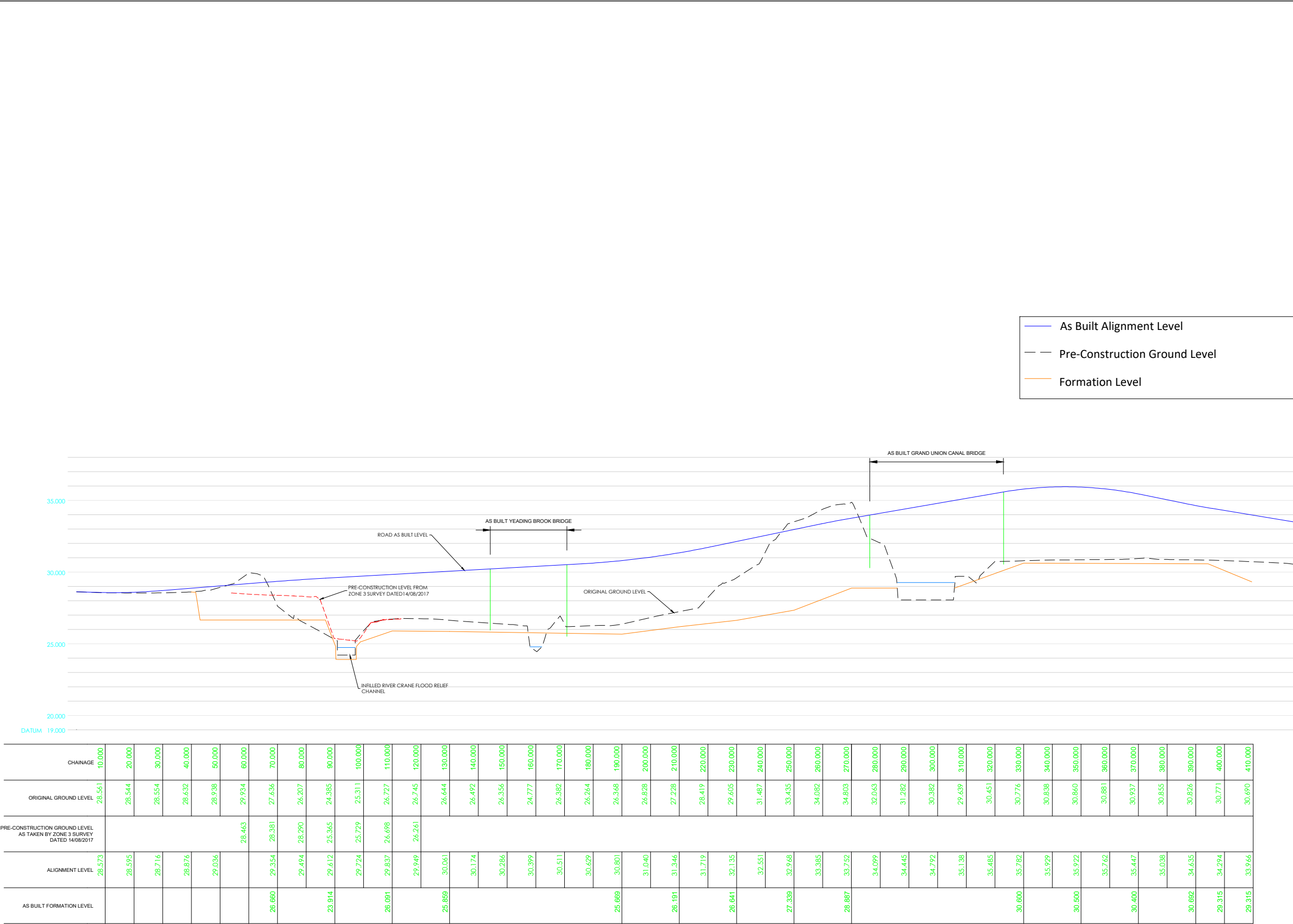


- Notes**
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 - Tree pits installed in earthworks by Landscaping Contractor as shown in tree pit detail A728-E05-IW-SW-CGL-C-DR-0124.

--- Planning boundary

**AS BUILT DRAWING REFLECTING SITE CONSTRUCTION
BY FM CONWAY**

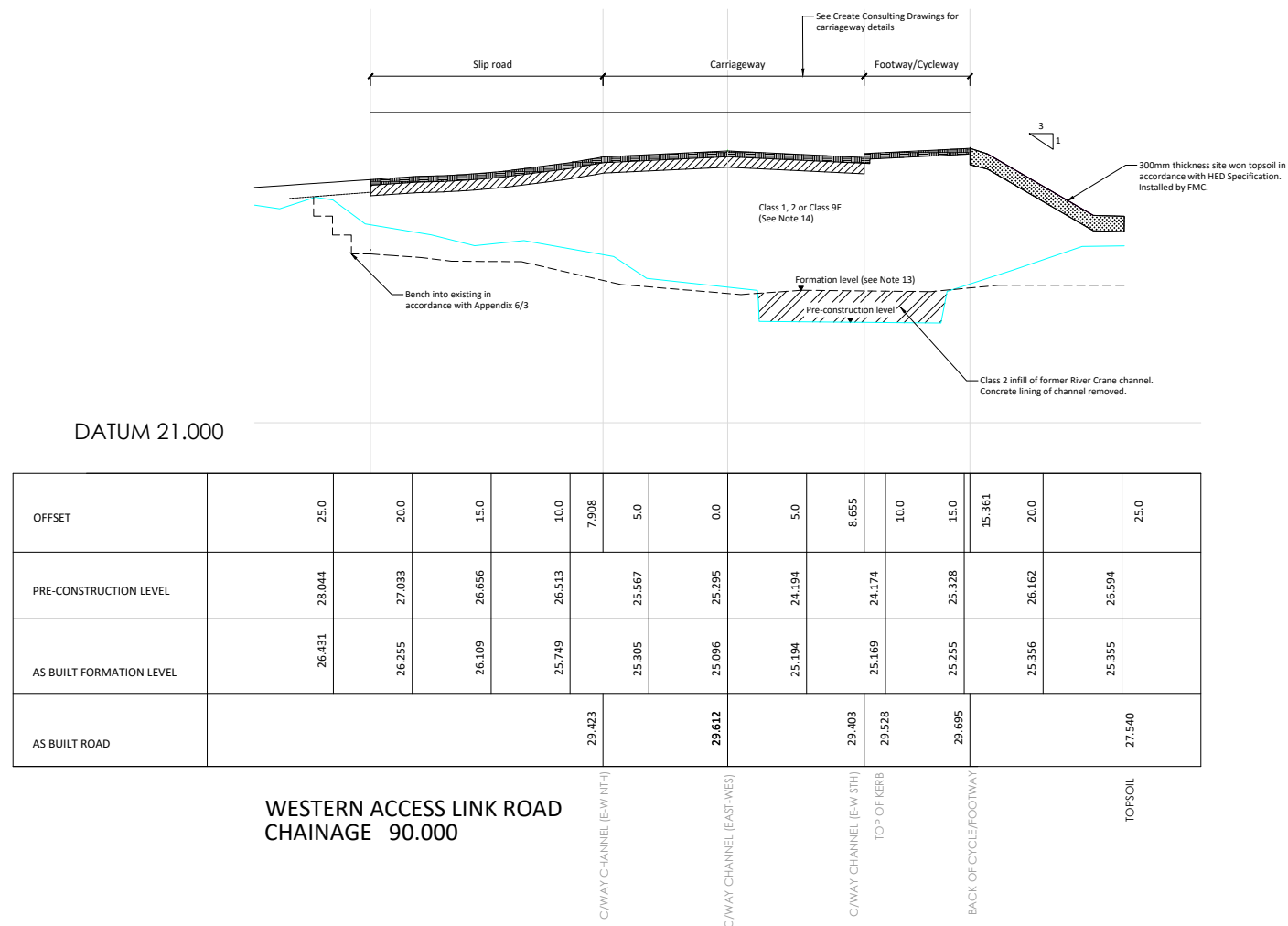
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Rev	Date	Comments	DRN	CHK
 Card Geotechnics Ltd 4 Godalming Business Centre Woolsack Way Godalming Surrey GU7 1XW T: 01483 310600				
Project		Western Access		
Client		Clark Smith Partnership		
Drawing title		Earthworks General Arrangement		
Scale(s)		Job No.		
NTS		CGN/03732F		
Drawn	TSB	21/09/20	Dwg No.	Rev.
Checked	ALC	21/09/20	A720-E05-IW-CGL-EW-DR-0100	C4
Approved	RNS	21/09/20		
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AS BUILT DRAWING REFLECTING SITE CONSTRUCTION
BY FM CONWAY

C4	21/09/20	AS BUILT	TSB	ALC
Rev	Date	Comments	DRN	CHK
		Card Geotechnics Ltd 4 Godalming Business Centre Woolsack Way Godalming Surrey GU7 1XW T: 01483 310600		
Project		Western Access		
Client		Clark Smith Partnership		
Drawing title		Longitudinal Section		
Scale(s) NTS		Job No. CGN/03732F		
Drawn Checked Approved	TSB ALC RNS	21/09/20 21/09/20 22/09/20	Dwg No. A720-E05-IW-CGL-EW-DR-0102 Rev. C4	
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- KEY:**
-  Pre-Construction Level
 -  Formation Level
 -  Hard Construction
 -  Bedding Plant Soil
 -  General grassland Soil
 -  Grasscrete construction

AS BUILT DRAWING REFLECTING SITE CONSTRUCTION
BY FM CONWAY

C4	20/04/20	AS BUILT	TSB	ALC
Rev	Date	Comments	DRN	CHK

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Project	Western Access
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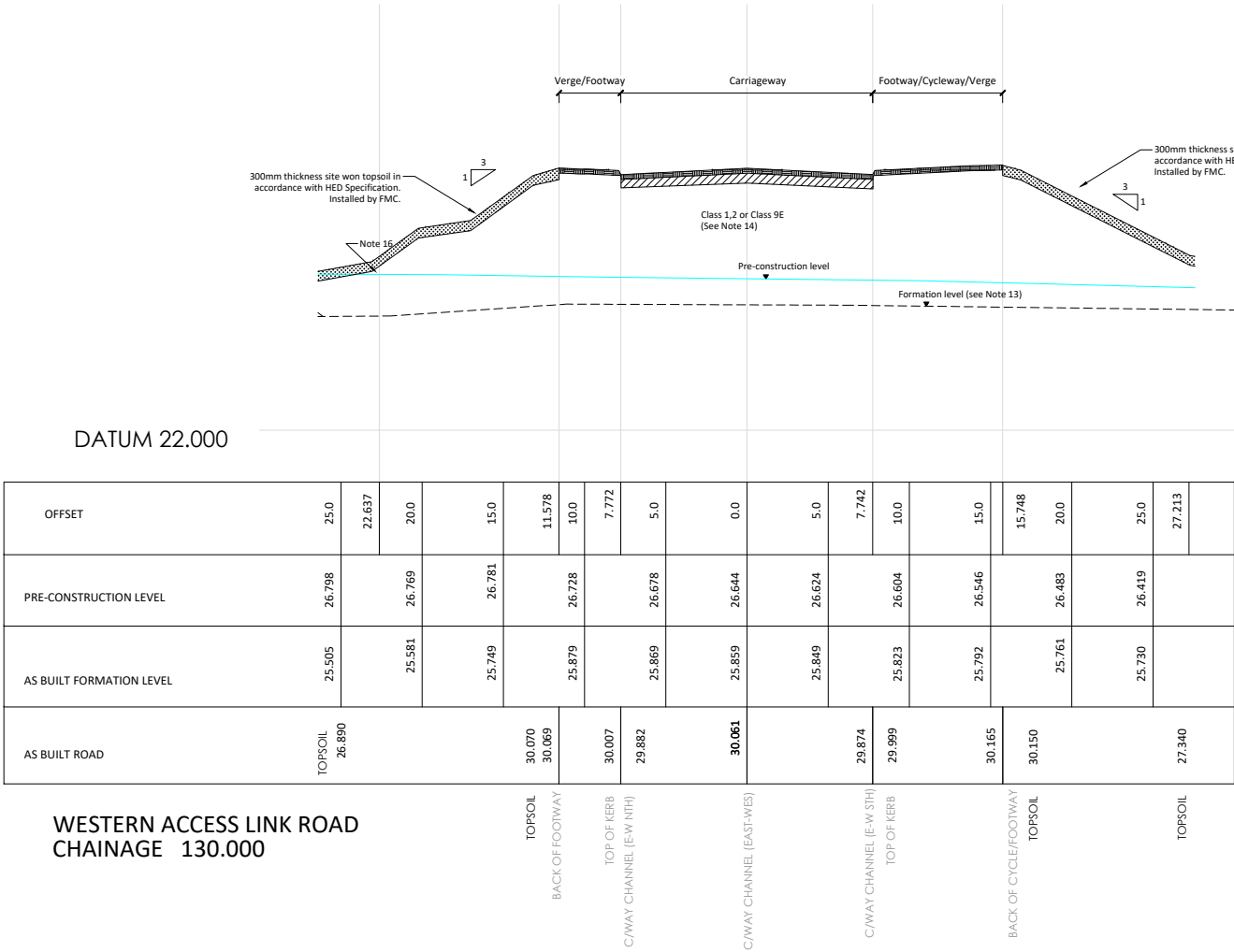
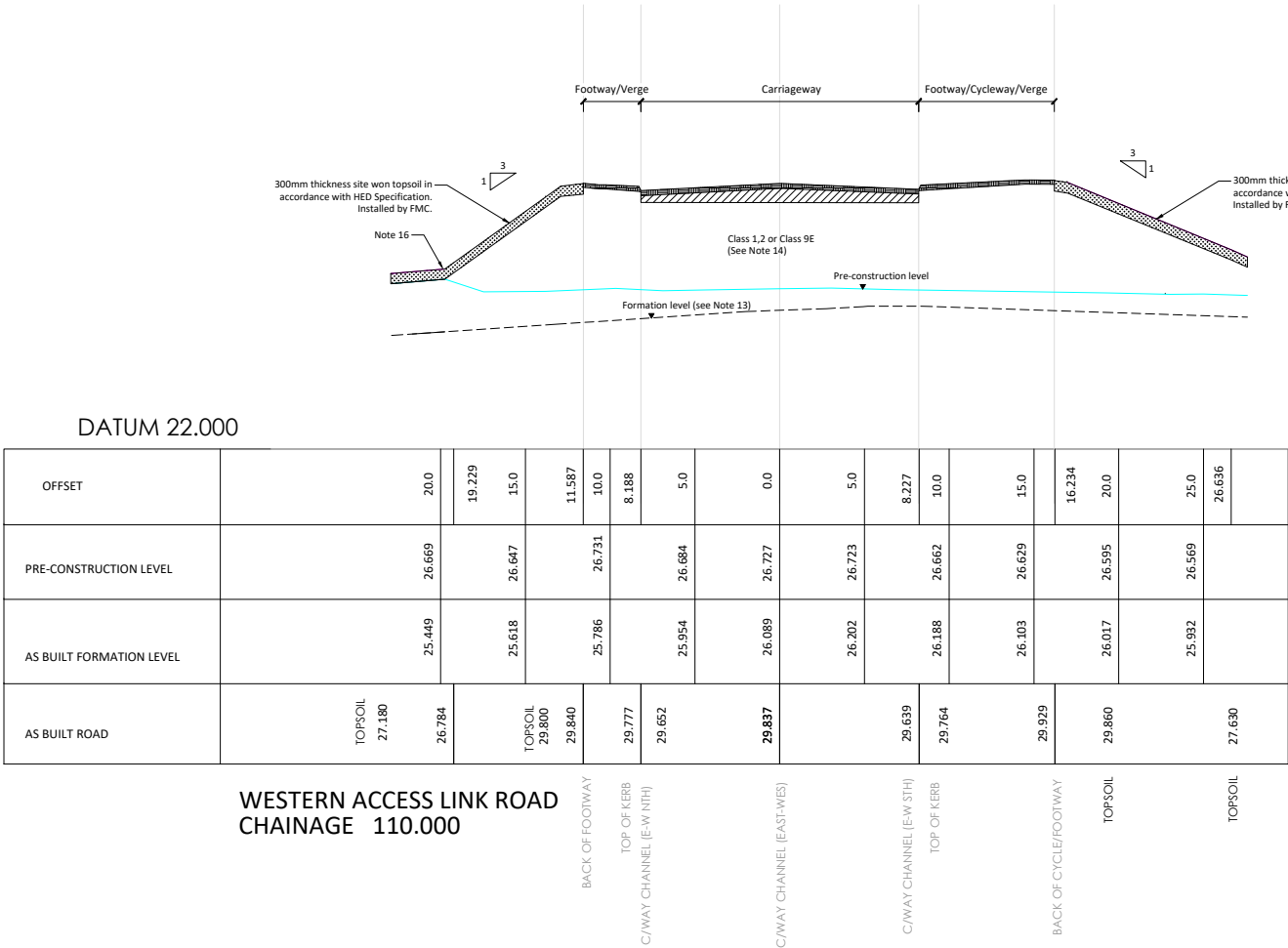
Client	Clark Smith Partnership
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Drawing title	Generalised Earthwork Sections - Sheet 1 of 7
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Scale(s) 1:2000 Horiz. 1:1000 Vert.			Job No. CGN/03732F	
Drawn	TSB	20/04/20	Dwg No.	
Checked	ALC	20/04/20	A720-E05-IW-CGL-EW-DR-0110	
Approved	RNS	21/04/20	Rev.	
			C4	

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Refer to drawing A720-E05-IW-CGL-EW-DR-0100 for cross section locations



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KEY:

- Pre-Construction Level
- Formation Level
- Hard Construction
- Bedding Plant Soil
- General grassland Soil
- Grasscrete construction

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BY FM CONWAY**



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Project

Western Access

Client

Clark Smith Partnership

Drawing title

**Generalised Earthwork Sections -
Sheet 2 of 7**

Scale(s)

**1:2000 Horiz.
1:1000 Vert.**

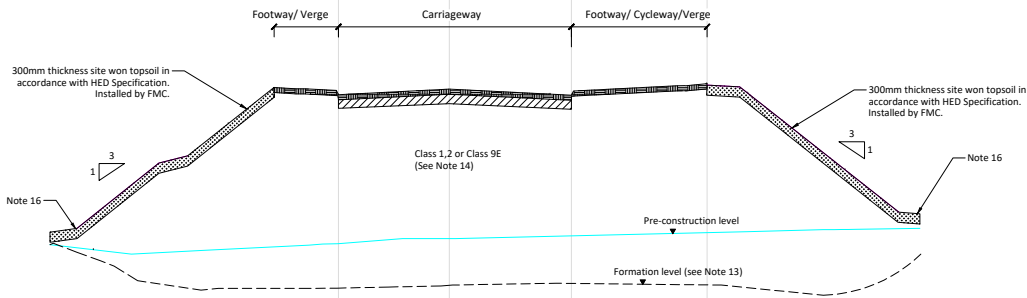
Job No.

CGN/03732F

Drawn	TSB	20/04/21	Dwg No.	A720-E05-IW-CGL-EW-DR-0111	Rev. C4
Checked	ALC	20/04/20			
Approved	RNS	21/04/20			

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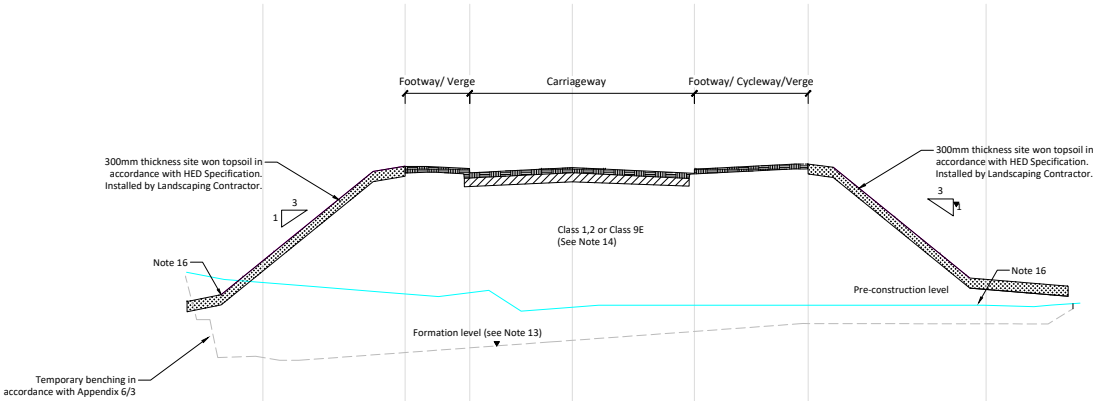
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DATUM 23.000

OFFSET	23.956	22.052	20.0	15.0	10.343	10.0	6.537	5.0	0.0	5.0	7.200	10.0	15.0	15.205	20.0	25.0	25.944
PRE-CONSTRUCTION LEVEL		25.982		26.007	26.133		26.280		26.368	26.424		26.485	26.546		26.608	26.653	
AS BUILT FORMATION LEVEL		25.585		25.530	25.531		25.532		25.669	25.855		25.910	25.912		25.913	25.915	
AS BUILT ROAD	26.560	26.101			30.830 30.824	30.763	30.638	30.801		30.636	30.761		30.928	30.935		26.661	27.100

WESTERN ACCESS LINK ROAD
CHAINAGE 190.000



DATUM 23.000

OFFSET	22.809	20.0	18.257	15.0	10.0	9.862	6.056	5.0	0.0	5.0	7.200	10.0	13.905	15.0	20.0	24.406	25.0	29.522
PRE-CONSTRUCTION LEVEL		28.026		27.826	27.626		27.723		27.228	27.288		27.288	27.288		27.288	27.277		27.351
AS BUILT FORMATION LEVEL		25.763		25.618	25.804		25.589		26.174	26.360		26.545	26.695		26.695	26.695		
AS BUILT ROAD	27.330	28.956			31.330	31.376	31.316	31.191	31.346		31.174	31.299	31.466 31.390			27.286		27.790

WESTERN ACCESS LINK ROAD
CHAINAGE 210.000

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- KEY:**
- Pre-Construction Level
 - Formation Level
 - Hard Construction
 - Bedding Plant Soil
 - General grassland Soil
 - Grasscrete construction

AS BUILT DRAWING REFLECTING SITE CONSTRUCTION
BY FM CONWAY



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Project
Western Access

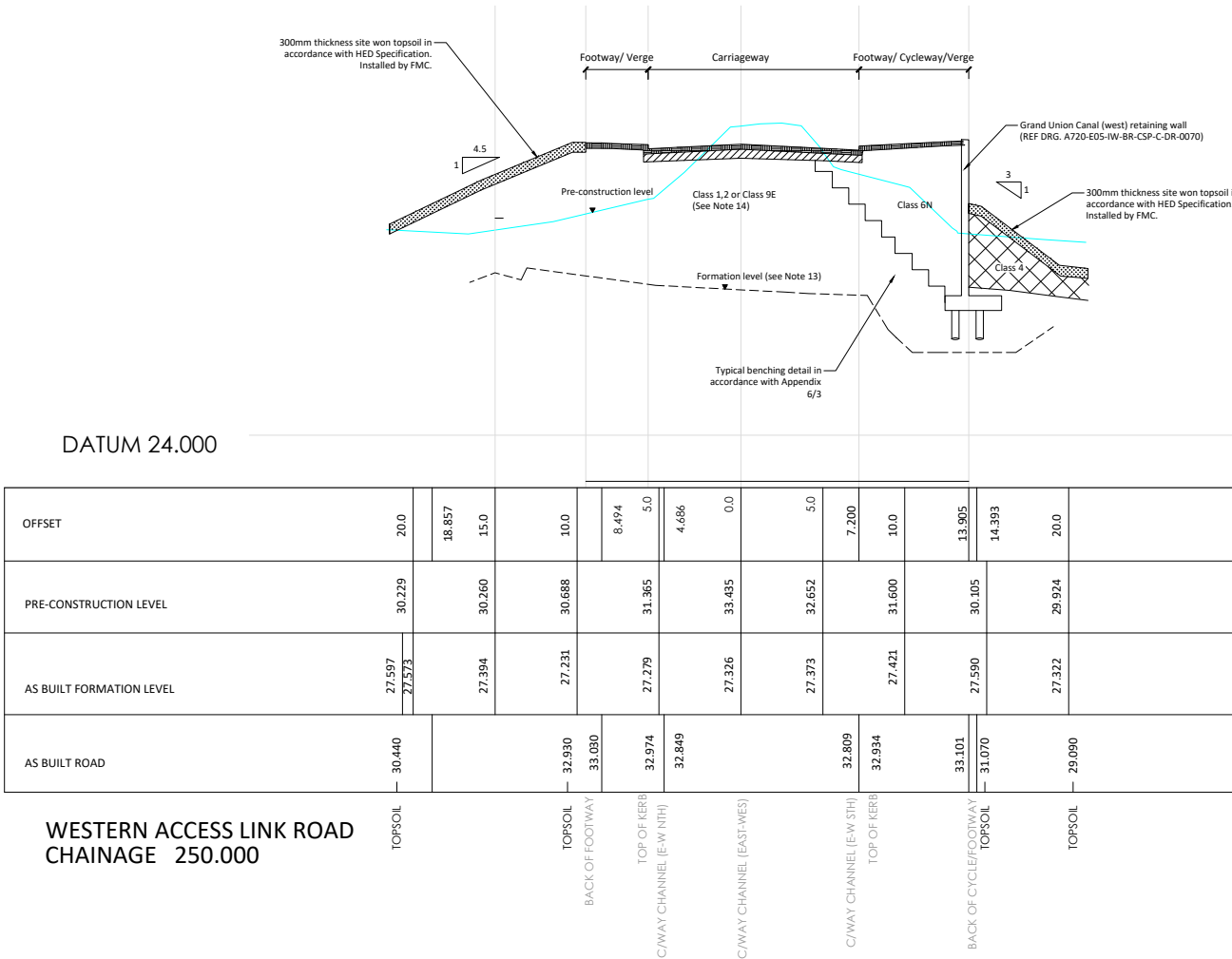
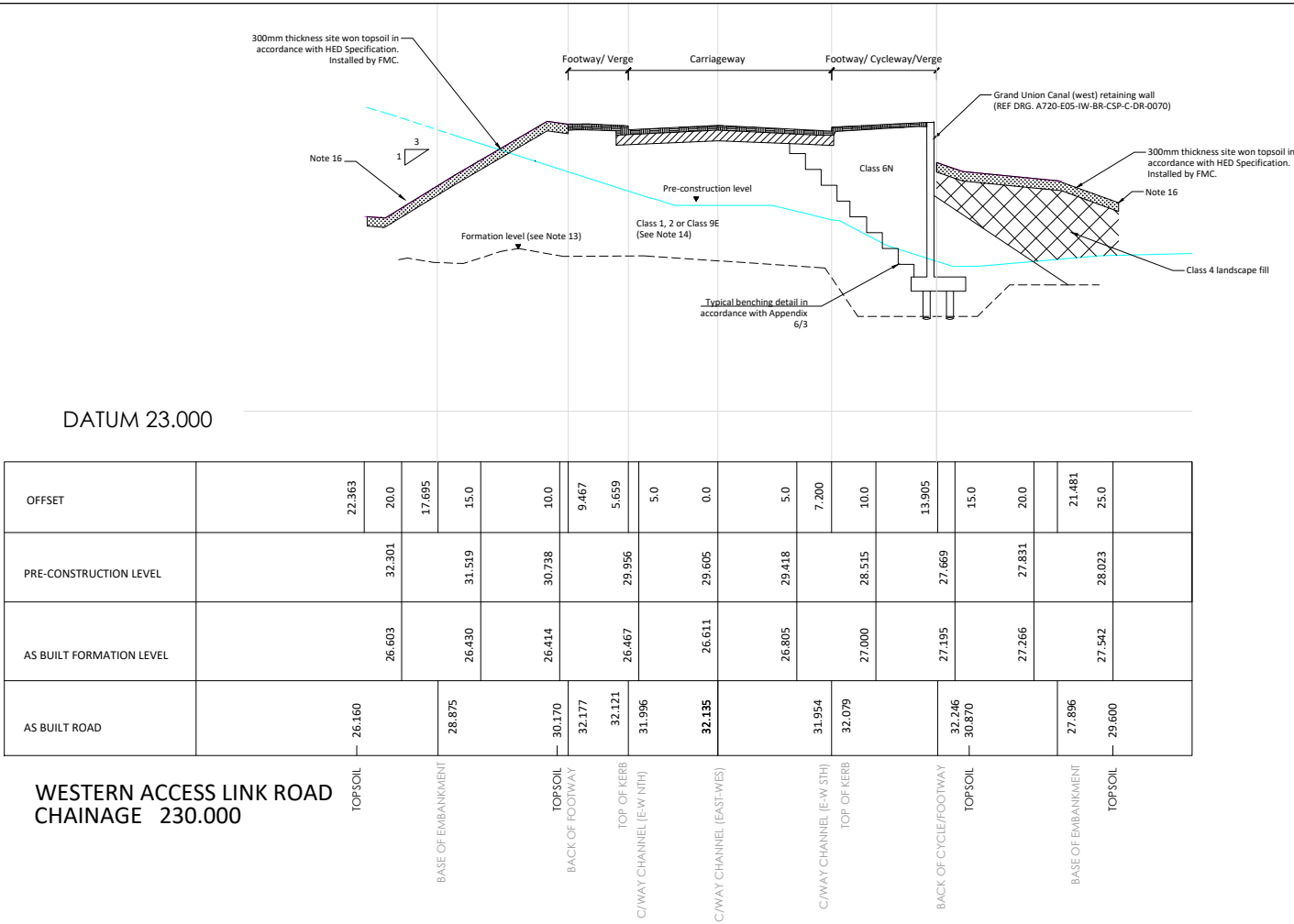
Client
Clark Smith Partnership

Drawing title
Generalised Earthwork Sections - Sheet 3 of 7

Scale(s) 1:2000 Horiz. 1:1000 Vert.	Job No. CGN/03732F	Rev. C4
Drawn TSB 20/04/21	Dwg No. A720-E05-IW-CGL-EW-DR-0112	
Checked ALC 20/04/20		
Approved RNS 21/04/20		

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Refer to drawing A720-E05-IW-CGL-EW-DR-0100 for cross section locations



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BY FM CONWAY

C4	20/04/21	AS BUILT	TSB	ALC
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Project

Western Access

Client

Clark Smith Partnership

Drawing title

Generalised Earthwork Sections - Sheet 4 of 7

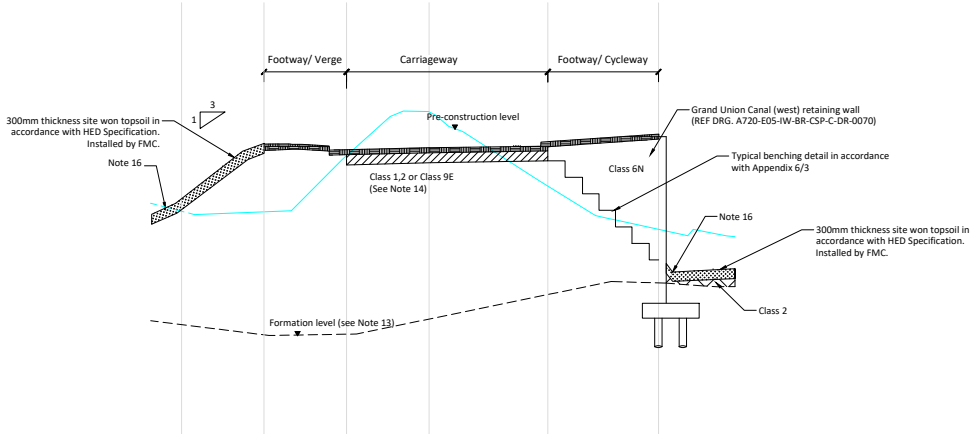
Scale(s)
1:2000 Horiz.
1:1000 Vert.

Job No.
CGN/03732F

Drawn	TSB	20/04/21	Dwg No.	A720-E05-IW-CGL-EW-DR-0113	Rev. C4
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Approved	RNS	21/04/20			

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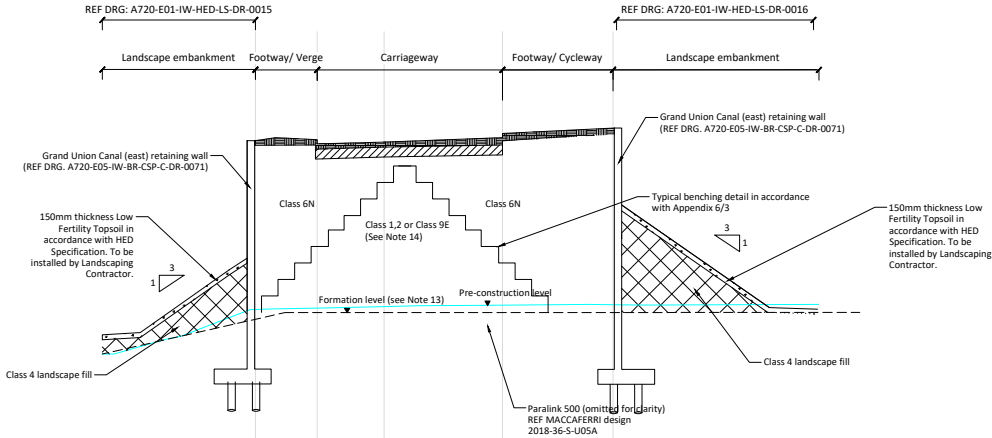
Refer to drawing A720-E05-IW-CGL-EW-DR-0100 for cross section locations



DATUM 25.000

OFFSET		15.0	10.0	7.971	5.0	4.166	0.0	5.0	7.200	10.0	13.905	15.0	19.208	
PRE-CONSTRUCTION LEVEL		32.072	31.780		32.592		34.803		33.502	32.309	31.373			
AS BUILT FORMATION LEVEL			28.121		28.095		28.572		29.478	30.385	30.873			
AS BUILT ROAD		31.697	33.842 33.873		33.811	33.686	33.752		33.803	33.928	34.095	30.045		

WESTERN ACCESS LINK ROAD
CHAINAGE 270.000



DATUM 26.000

OFFSET		15.0	10.0	7.794	6.553	4.048	0.0	5.0	7.174	10.0	13.879	15.0	20.0	25.0	29.563	30.0
PRE-CONSTRUCTION LEVEL		29.534	30.324		30.724		30.776		30.807	30.824	30.838	30.823		30.851	30.945	
AS BUILT FORMATION LEVEL		30.166	30.406		30.600		30.600		30.600	30.600	30.600					
AS BUILT ROAD		29.921	35.802 35.896	35.833	35.708	35.782		35.895	36.020		36.187	33.857		30.900		

WESTERN ACCESS LINK ROAD
CHAINAGE 330.000

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- KEY:**
- Pre-Construction Level
 - Formation Level
 - Hard Construction
 - Bedding Plant Soil
 - General grassland Soil
 - Grasscrete construction

AS BUILT DRAWING REFLECTING SITE CONSTRUCTION
BY FM CONWAY



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Surrey
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T: 01483 310600

Project
Western Access

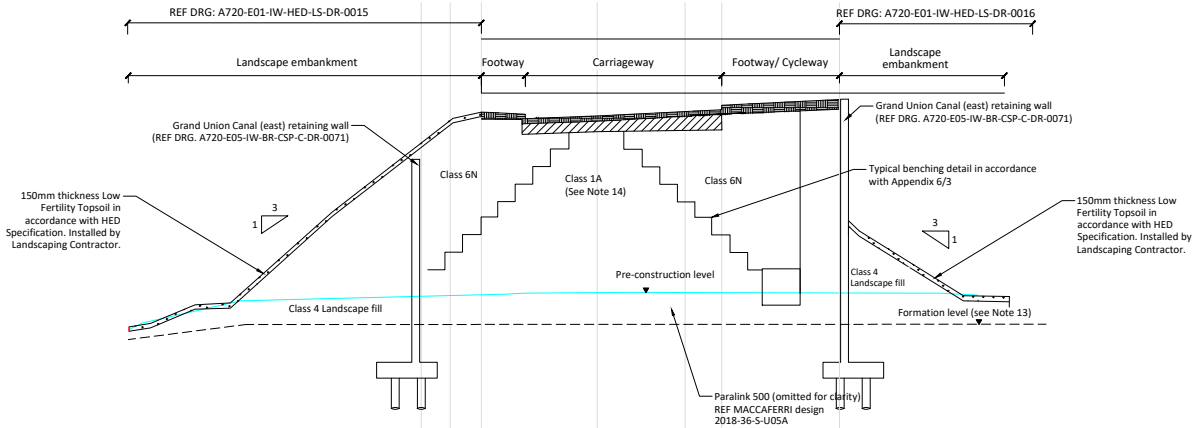
Client
Clark Smith Partnership

Drawing title
**Generalised Earthwork Sections -
Sheet 5 of 7**

Scale(s) 1:2000 Horiz. 1:1000 Vert.			Job No. CGN/03732F	
Drawn	TSB	20/04/21	Dwg No.	Rev.
Checked	ALC	20/04/20	A720-E05-IW-CGL-EW-DR-0114	C4
Approved	RNS	21/04/20		

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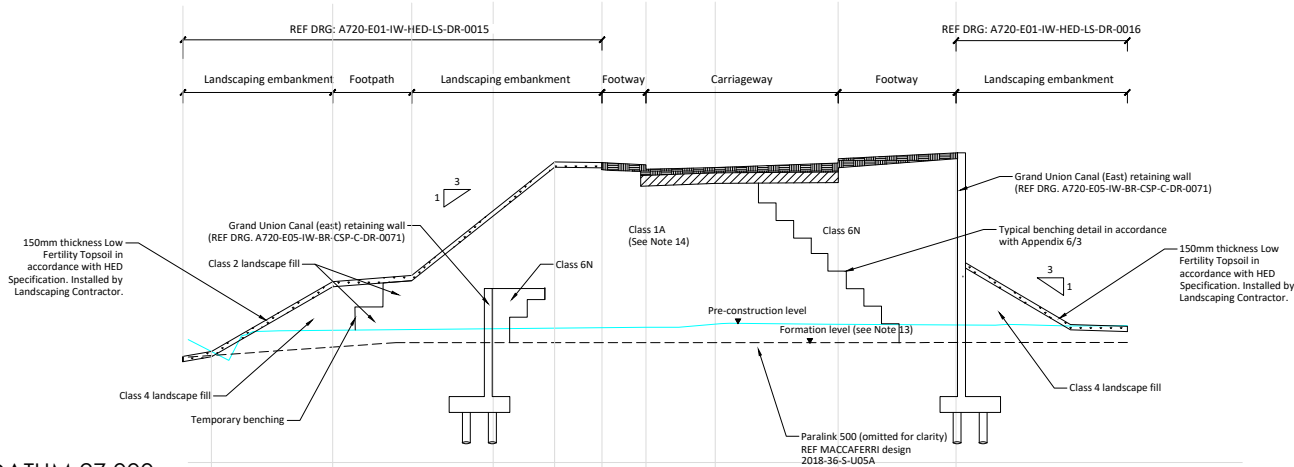
Refer to drawing A720-E05-IW-CGL-EW-DR-0100 for cross section locations



DATUM 26.000

OFFSET	25.0	20.0	15.0	10.023	10.0	6.596	5.0	4.091	0.0	5.0	7.084	10.0	13.789	15.0	20.0
PRE-CONSTRUCTION LEVEL	30.096	30.628	30.693	30.755	30.818	30.860	30.861	30.854	30.846	30.827					
AS BUILT FORMATION LEVEL	30.173	30.490	30.501	30.503	30.506	30.508	30.506	30.504	30.502	30.500					
AS BUILT ROAD	TOPSOIL 29.882	TOPSOIL 30.574		34.613	TOPSOIL 35.824 35.995	TOP OF KERB 35.932	TOP OF KERB 35.807	35.922	36.061	36.186	36.354	36.354	32.907	30.771	

WESTERN ACCESS LINK ROAD
CHAINAGE 350.000



DATUM 27.000

OFFSET	30.0	25.0	20.0	15.0	12.646	10.0	6.448	5.0	3.942	0.0	5.0	6.998	10.0	13.703	15.0	20.0
PRE-CONSTRUCTION LEVEL	30.499	30.737	30.762	30.786	30.811	30.836	30.836	30.836	30.836	30.836	30.836	30.836	30.836	30.836	30.836	30.836
AS BUILT FORMATION LEVEL	29.995	30.171	30.346	30.411	30.412	30.414	30.415	30.416	30.418	30.418	30.418	30.418	30.418	30.418	30.418	30.418
AS BUILT ROAD	30.160	32.148	31.950	35.553	35.533	35.469	35.344	35.447	35.519	35.644	35.811	30.925				

WESTERN ACCESS LINK ROAD
CHAINAGE 370.000

- Notes**
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KEY:

- Pre-Construction Level
- Formation Level
- Hard Construction
- Bedding Plant Soil
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AS BUILT DRAWING REFLECTING SITE CONSTRUCTION
BY FM CONWAY



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Project
Western Access

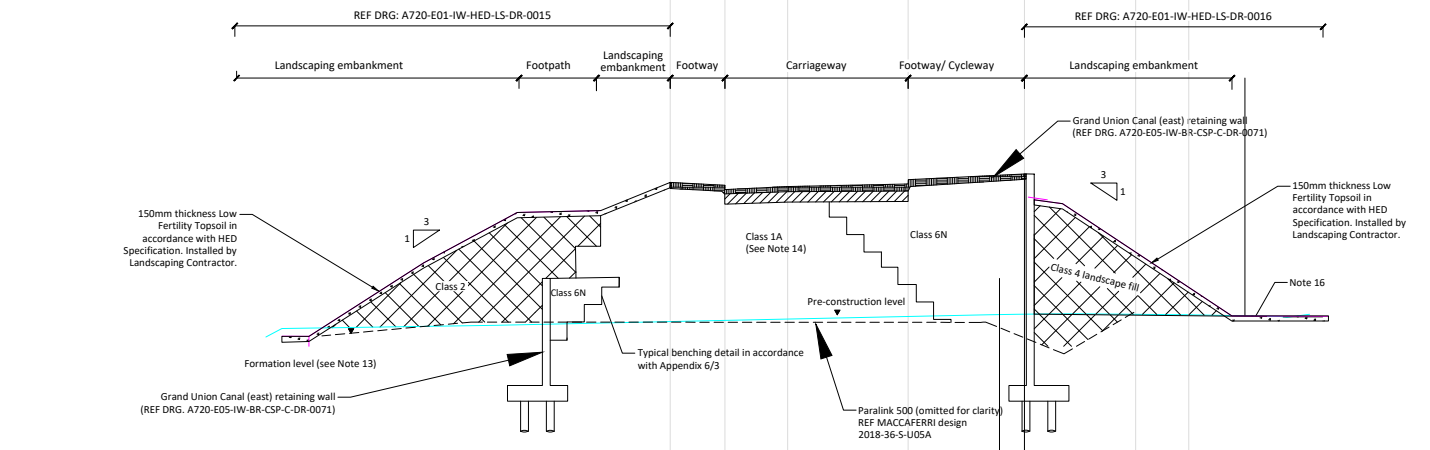
Client
Clark Smith Partnership

Drawing title
Generalised Earthwork Sections - Sheet 6 of 7

Scale(s) 1:2000 Horiz. 1:1000 Vert.			Job No. CGN/03732F	
Drawn	TSB	20/04/21	Dwg No.	A720-E05-IW-CGL-EW-DR-0115
Checked	ALC	20/04/20	Rev.	
Approved	RNS	21/04/20	C4	

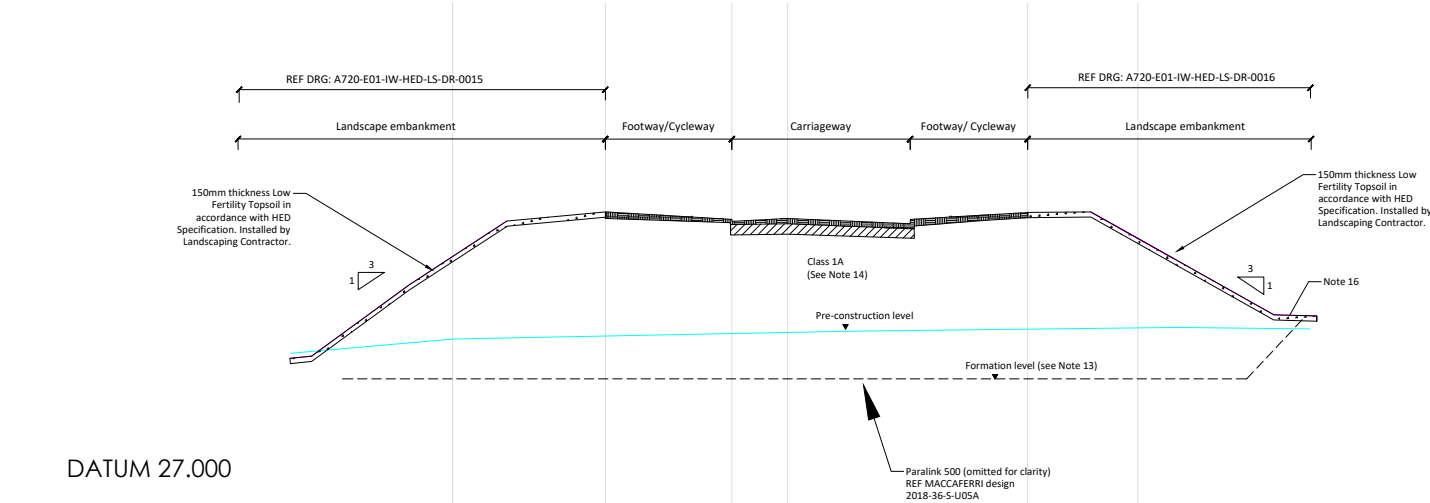
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Refer to drawing A720-E05-IW-CGL-EW-DR-0100 for cross section locations



AS BUILT ROAD	TOPCOL 30.290	30.066	30.311	OFFSET
33.870		30.298	30.585	30.0
		30.489	30.622	25.0
		30.537	30.666	20.0
		30.520	30.719	17.665
34.710 34.752		30.503	30.773	15.0
				10.0
				6.751
				5.0
34.670 34.545 34.635				3.608
		30.486	30.826	0.0
		30.469	30.879	5.0
34.708 34.833				6.923
		30.572	30.933	10.0
35.000 34.950 34.180				
		30.373	30.974	13.628
	29.651			14.167
			30.970	20.0
30.860				
				23.040
			30.929	25.0
			30.964	30.0

WESTERN ACCESS LINK ROAD
CHAINAGE 390.000



AS BUILT ROAD	TOPSOIL 29.900	31.140	30.821	22.034	20.0	15.0	13.794	10.0	7.041	5.0	0.0	3.211	5.0	30.641	30.593	30.545	30.469	25.0	OFFSET

WESTERN ACCESS LINK ROAD
CHAINAGE 410.000

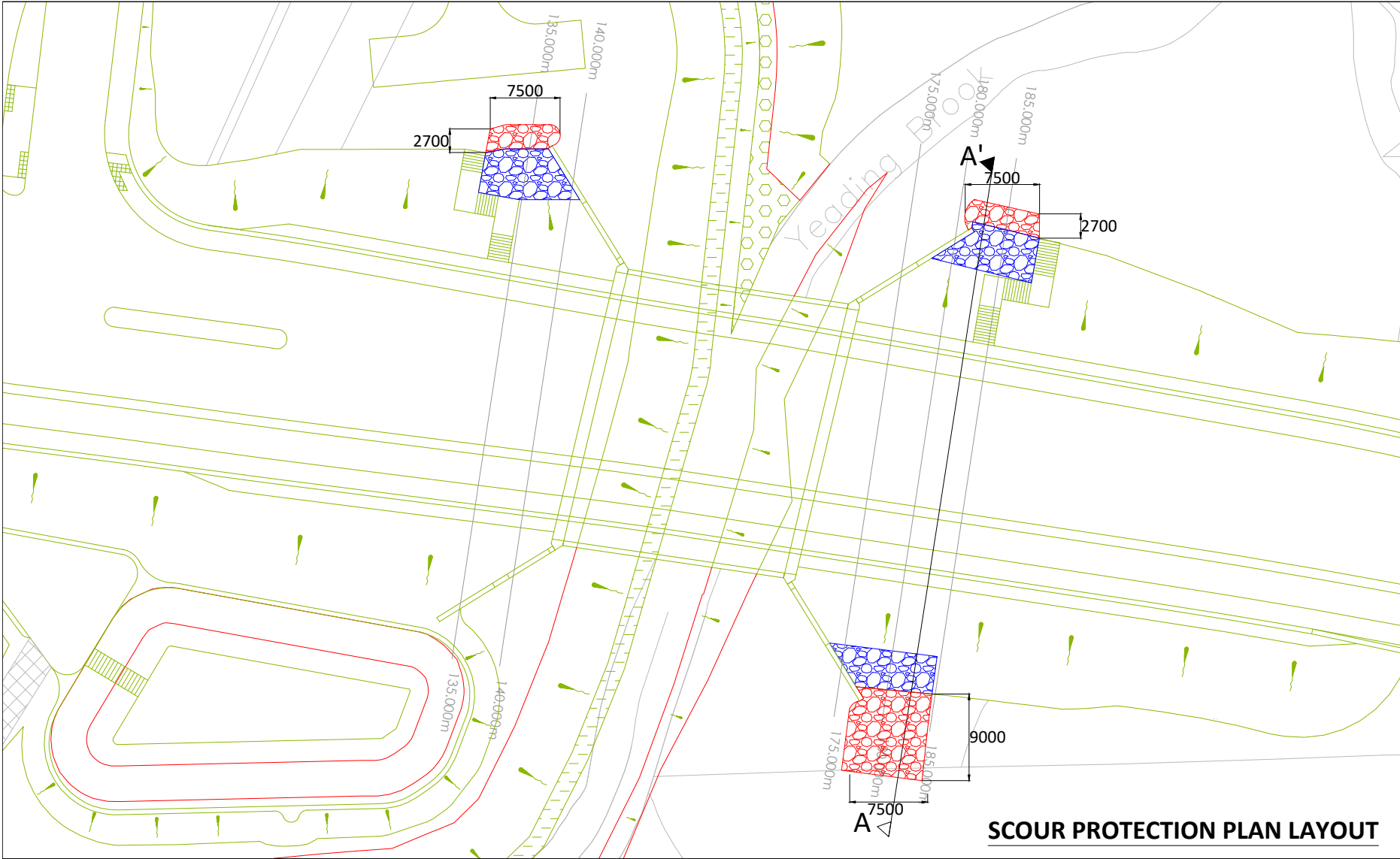
Refer to drawing A720-E05-IW-CGL-EW-DR-0100 for cross section locations

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 - Grasscrete construction

AS BUILT DRAWING REFLECTING SITE CONSTRUCTION
BY FM CONWAY

C4	20/04/21	AS BUILT	TSB	ALC
Rev	Date	Comments	DRN	CHK
			Card Geotechnics Ltd 4 Godalming Business Centre Woolsack Way Godalming Surrey GU7 1XW T: 01483 310600	
Project		Western Access		
Client		Clark Smith Partnership		
Drawing title		Generalised Earthwork Sections - Sheet 7 of 7		
Scale(s) 1:2000 Horiz. 1:1000 Vert.		Job No. CGN/03732F		
Drawn	TSB	20/04/21	Dwg No.	Rev.
Checked	ALC	20/04/20	A720-E05-IW-CGL-EW-DR-0116	C4
Approved	RNS	21/04/20		
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Key

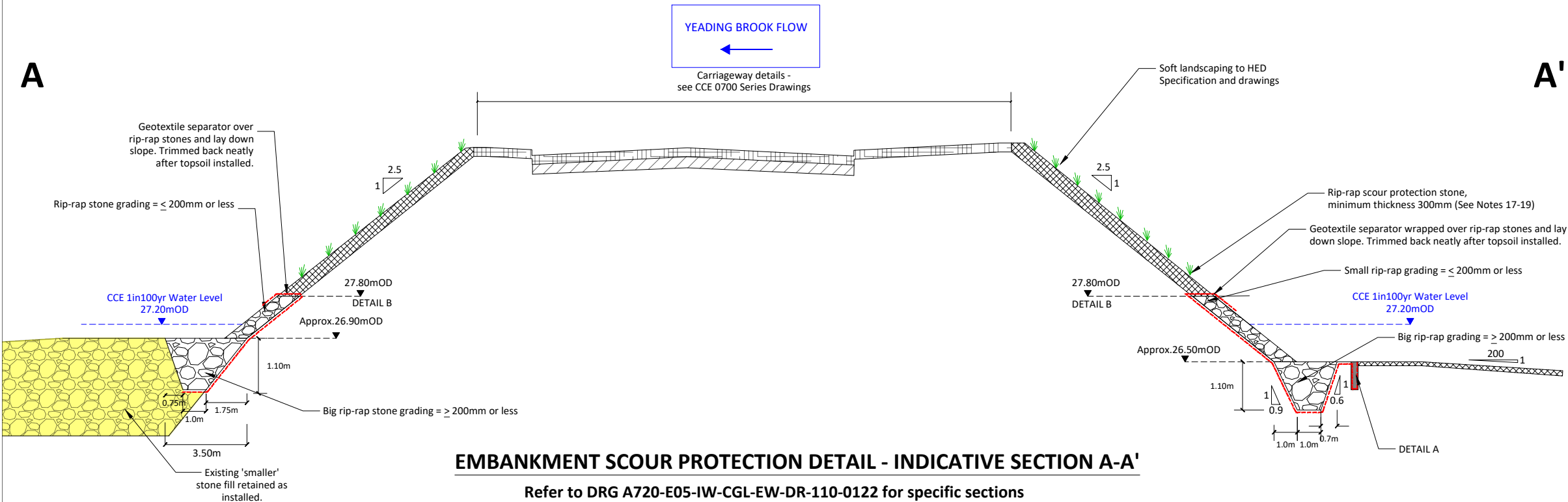
Extent of embankment slope scour protection

Extent of toe apron

Line of indicative section

MATERIAL SPECIFICATIONS		
Type	Value	Specification/Reference
Rip-rap	5-40kg (light class)	BS EN13383-1:2013 See notes
Geotextile	HPS	Geofabrics (or similar)
Flood level	+27.2mOD	CCE 1 in 100 year flood model output

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 - Refer to drawings A720-E05-IW-CGL-EW-DR-0110 to 0116 for typical earthworks sections and drawing A728-E05-IW-CGL-C-DR-0124 for tree pit details.
 - In locations shown, rip-rap was placed at a minimum slope of 1V:2.5H above geotextile membrane.
 - Rip-rap to be 'light' grading 5-40kg as per BS EN13383 standard grading requirements, reproduced in CIRIA C683 Table 3.5. Dn50 of rip-rap no less than 200mm. Rip-rap >200mm placed at the toe of the slope
 - Minimum thickness of 300mm rip-rap placed on embankment slope. Minimum thickness of 1100mm of rip-rap placed at embankment toe.



AS BUILT DRAWING REFLECTING SITE CONSTRUCTION
BY FM CONWAY

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Project
Western Access

Client
Clark Smith Partnership

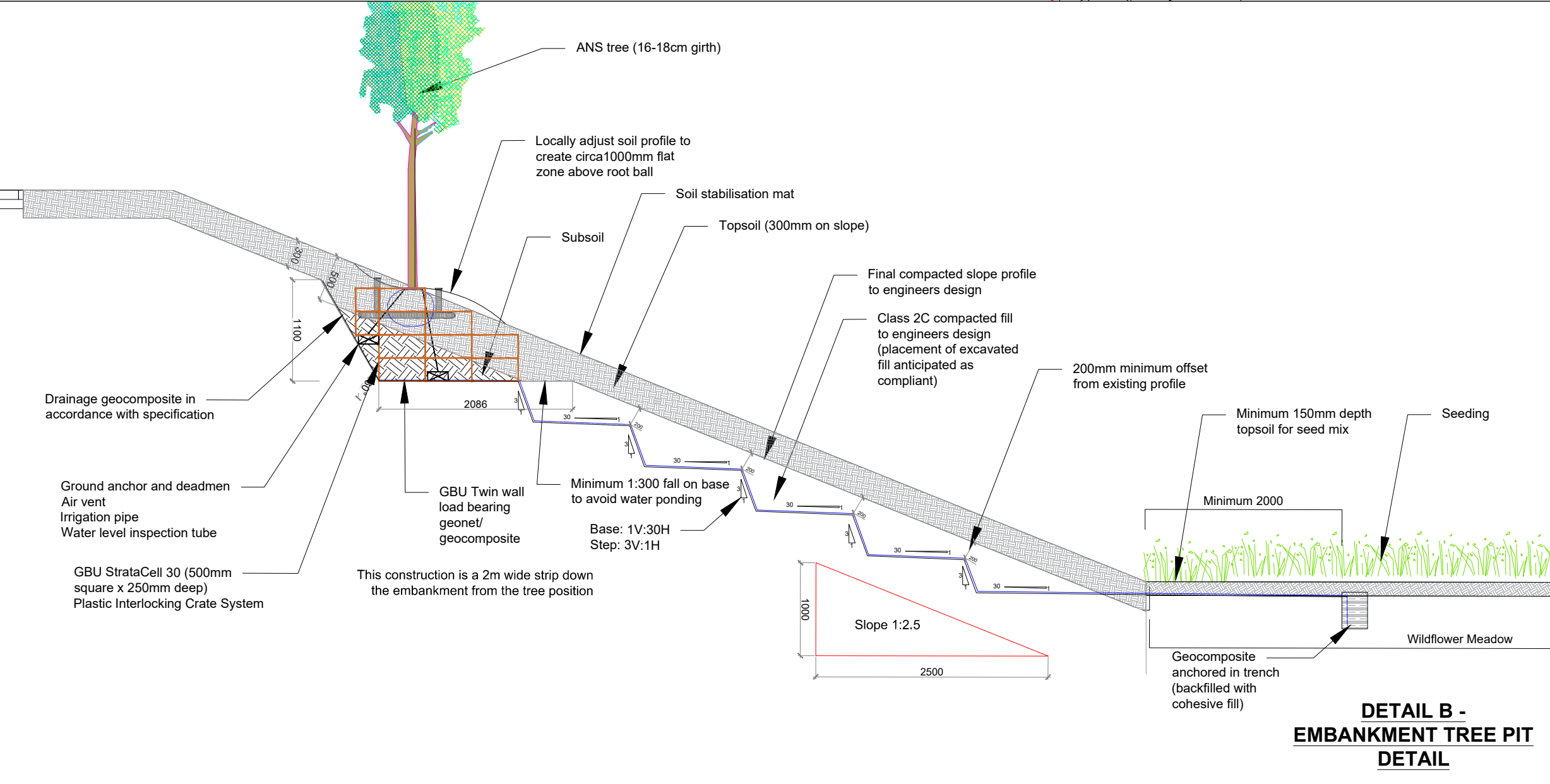
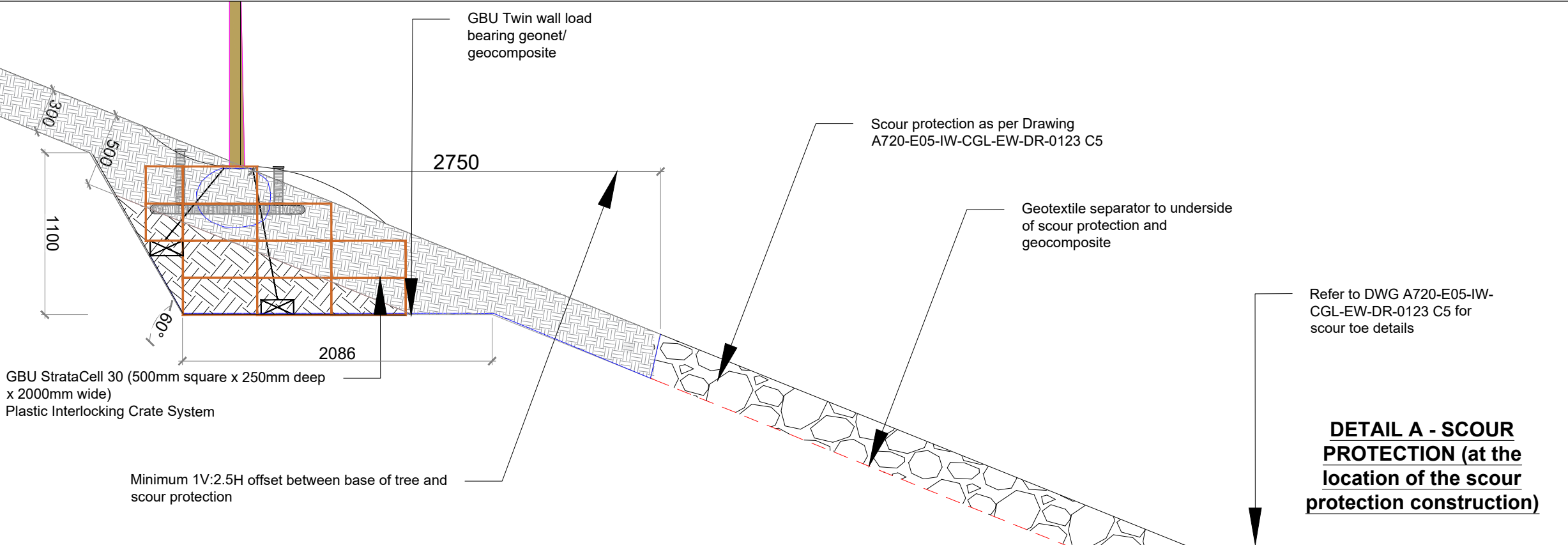
Drawing title
Earthwork Detail - Embankment Scour Protection

Scale(s)
NTS

Job No.
CG/28308

Drawn	TSB	21/09/20	Dwg No.	A720-E05-IW-CGL-EW-DR-0123	Rev. C6
Checked	ALC	21/09/20			
Approved	RNS	22/09/20			

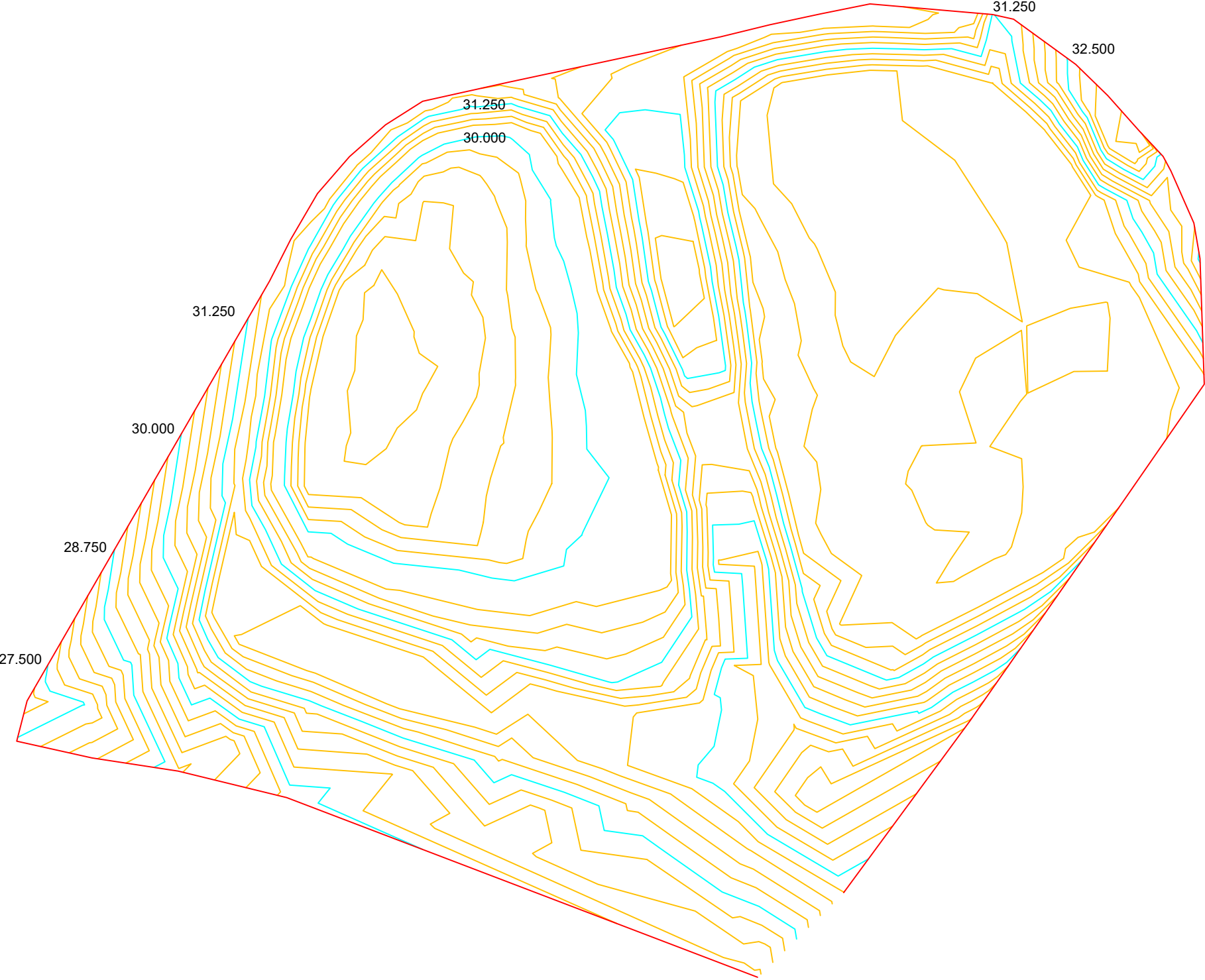
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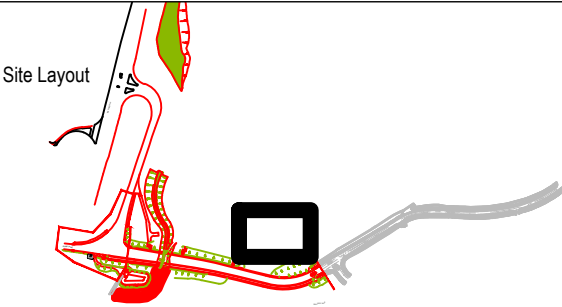
- Notes.**
- Reproduced from Drawing A720-E01-IW-HED-LS-DR-0013 P6 by HED. (FMC initial extra details added for discussion).

C2	21/09/20	As Built
Rev	Date	Comments
 Card Geotechnics Ltd 4 Godalming Business Centre Woolsack Way Godalming Surrey GU7 1XW T: 01483 310600		
Project Western Access, Southall		
Client Clark Smith Partnership		
Drawing title Tree Pit Benching Details		
Scale(s) NTS		Job No. CG/28308
Drawn TSB 21/09/20	Dwg No. A728-E05-IW-SW-CGL-C-DR-0124	Rev. C2
Checked ALC 21/09/20		
Approved RNS 22/09/20		
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Drawing Design Notes

- * Design Layout has been based on the 2d layout of drawing X-PR-BASE-LAYOUT , supplied by FMC Design



C2	20.11.20		Contour labels added
P1	22.09.20		Asbuilt drawn

Rev.	Drawn	By:	Description
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Revisions	
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Reference Grid:	Reference Datum:
Berkeley Homes Site Grid	Ordnance Datum

Disclaimer:
This plan should only be used for its original purpose.FMC accepts no responsibility for this plan if supplied to any party other than the original client.

All dimensions and or level information shown should be checked on site prior to design and construction.

This drawing is not to be used in whole or part other than for the intended purpose and project as defined on this drawing. Refer to the contract for full terms and conditions.



Drawing status:

Asbuilt

Project Name:

Western Access

Client:

Berkeley West Thames Ltd

Draw by: EG	Approved by: TAC	Checked by: TAC	Scale: 1:500
Drawn date: 22/09/20	Approved date: 20/11/20	Checked date: 20/11/20	A3

Drawing Title:

A728-E05-IW-SW-FMC-C-DR-0091

Lagoon as constructed level survey.