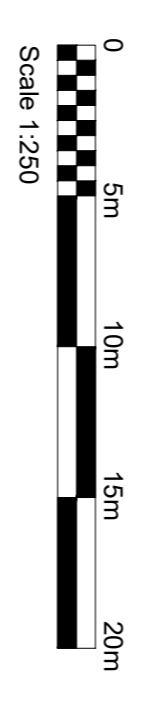
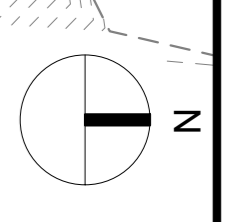


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 LICENCE NUMBER: 100034241

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 4. EXTERNAL RMP'S TO BE INSTALLED (DETAILED TO BE VISUALLY UNIMPESSIVE AND NOT EASILY CLIMBED)



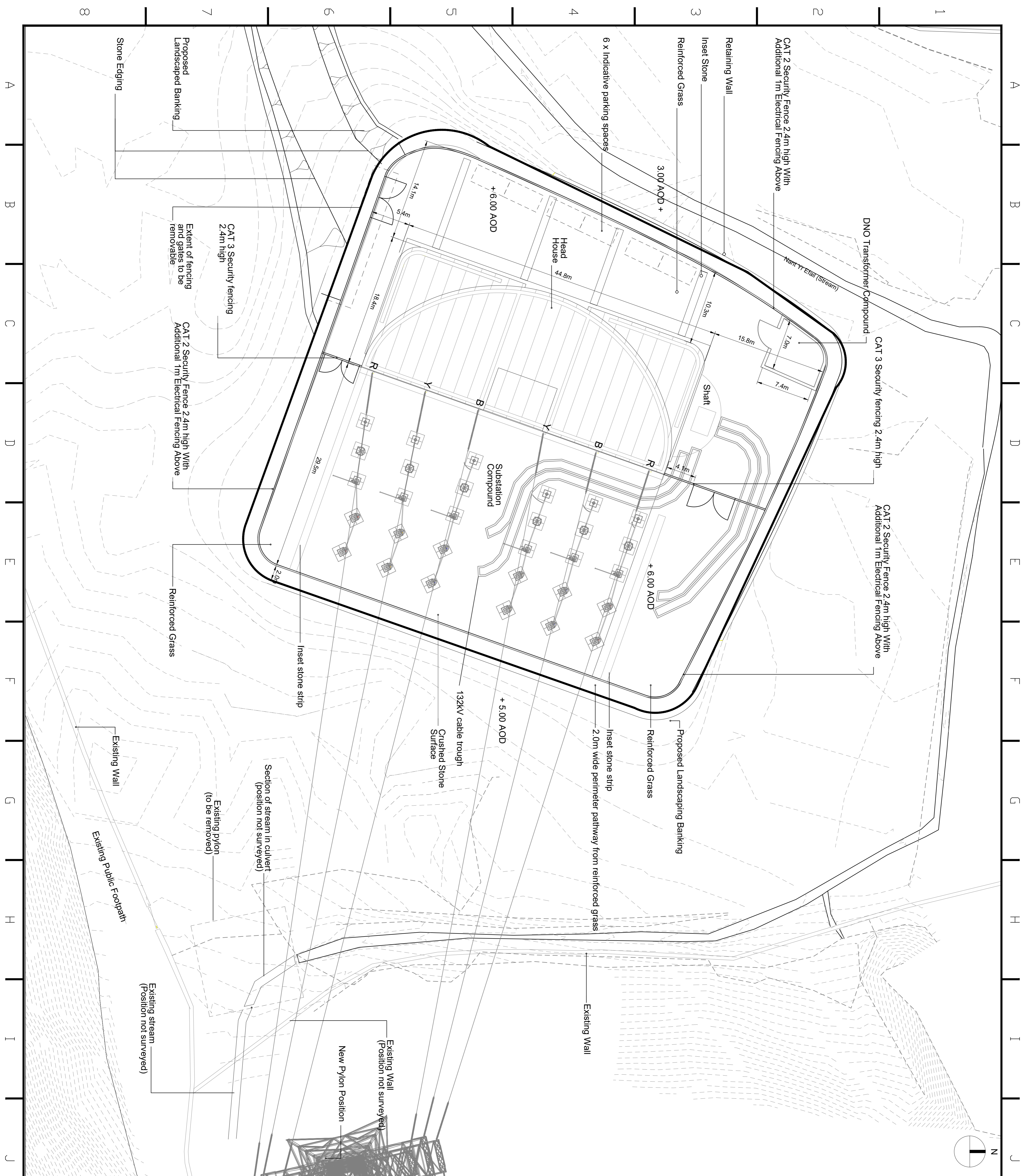
Rev	Description	Issued By	Checked By	Approved By	Date
P01	ISSUED FOR TENDER	JR	GG	CM	07/06/19
P02	NO BOUNDARY REMOVED. ISSUED FOR PLANNING	MAC	CN	CN	31/10/19
P03	TOWER LOCATION UPDATED. ISSUED FOR PLANNING	SFS	CN	CN	12/02/20
P04	AMENDED TO SHOW TWO CABLES PER PHASE	MAC	CN	CN	25/03/21
P05	MODIFIED IN LINE WITH CLIENTS COMMENTS	MAC	CN	CN	15/07/21

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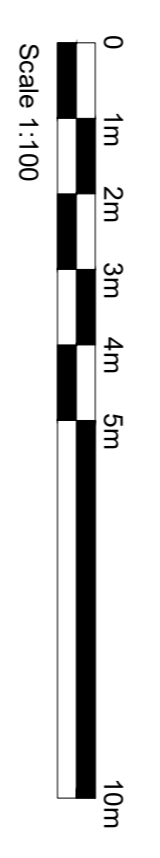
Notes: Scheme No: 33494
 Sub-Scheme No: V1P
 Site: SHONDONIA EAST SITE
 Scheme Name: EAST HEAD HOUSE
 Documents Title: PROPOSED SITE PLAN
 CILFOR

Created By	Date	Checked By	Date	Approved By	Date
JR	07/06/19	GG	07/06/19	CM	07/06/19
Development Eng	Document Type	Scale	Format	Sheet No	Rev
ARC	ARC	1:250	A1	1 DF 1	P05

National Grid Document Numbers
 PDD-33494-ARC-106
 FEB Document Numbers



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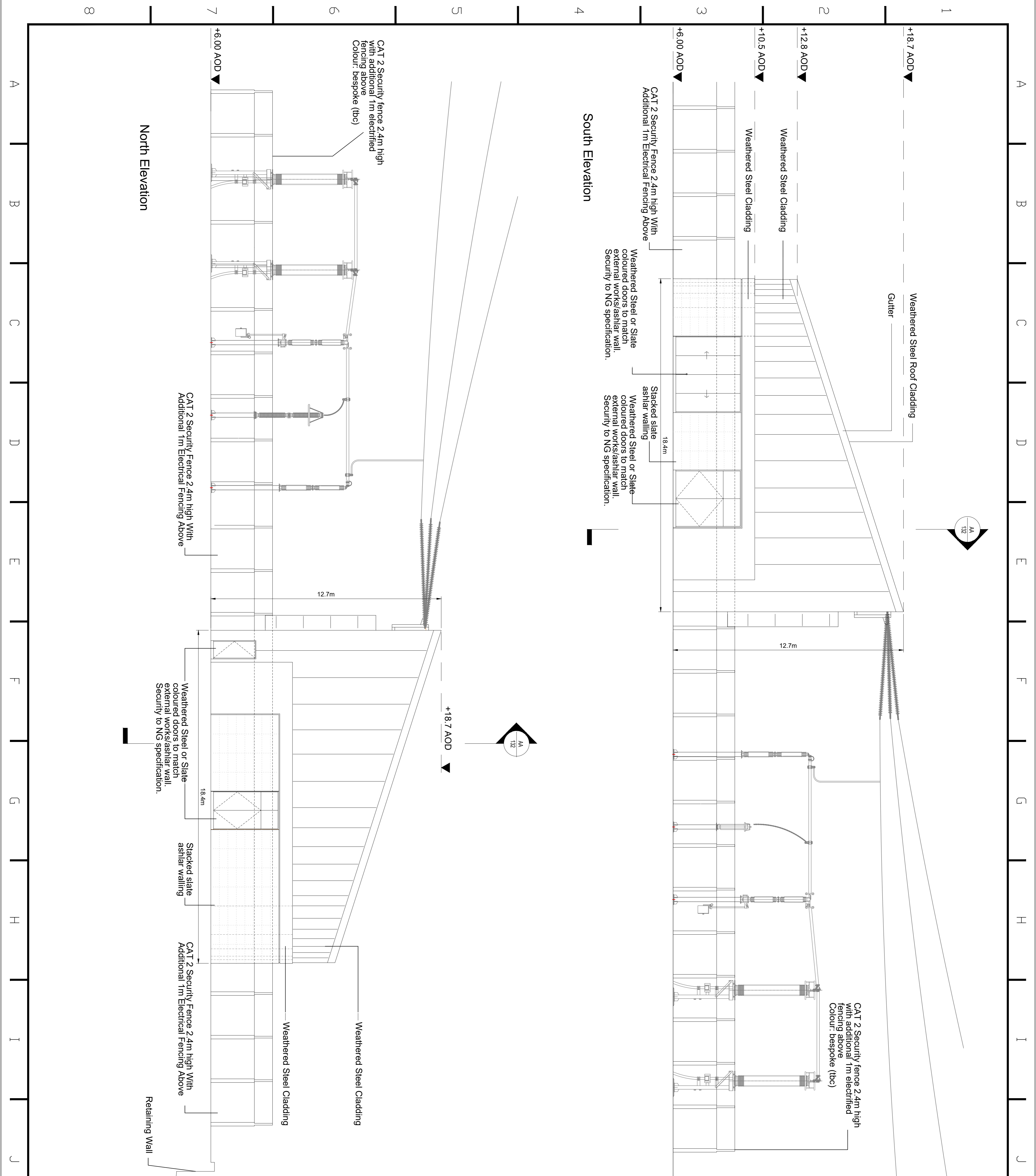


Rev	Description	Issued by	Checked by	Approved by	Date
P04	BUILDING HEIGHT DIMENSION ADDED	MAC	CN	CN	30.07.21
P03	AMENDED TO SHOW TWO CABLES PER PHASE	MAC	CN	CN	25.03.21
P02	ISSUED FOR PLANNING	MAC	CN	CN	31.10.19
P01	ISSUED FOR TENDER	JR	GG	CM	12.07.19

Master Scheme No	33494	Sub-Scheme No	VIP	Site	SNOWDONIA EAST SITE
Scheme Name	EAST HEAD HOUSE				
Document Title	PROPOSED NORTH AND SOUTH ELEVATIONS CILFOR				

Checked by	Date	Checked by	Date	Approved by	Date
JR	14.06.19	GG	14.06.19	CM	14.06.19
Development Eng	Document Type	Scale	Format	Sheets	Rev
ARC	ARC	1:250	A1	1 DF 1	P04

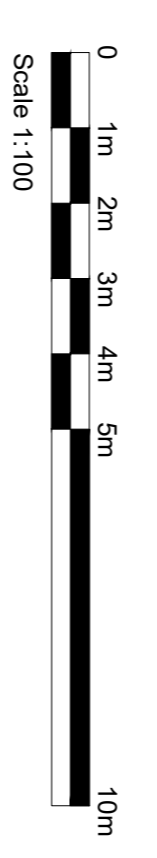
National Grid Document Number
 PDD-33494-ARC-121
 FEB Document Number



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 LICENCE NUMBER: 100064241

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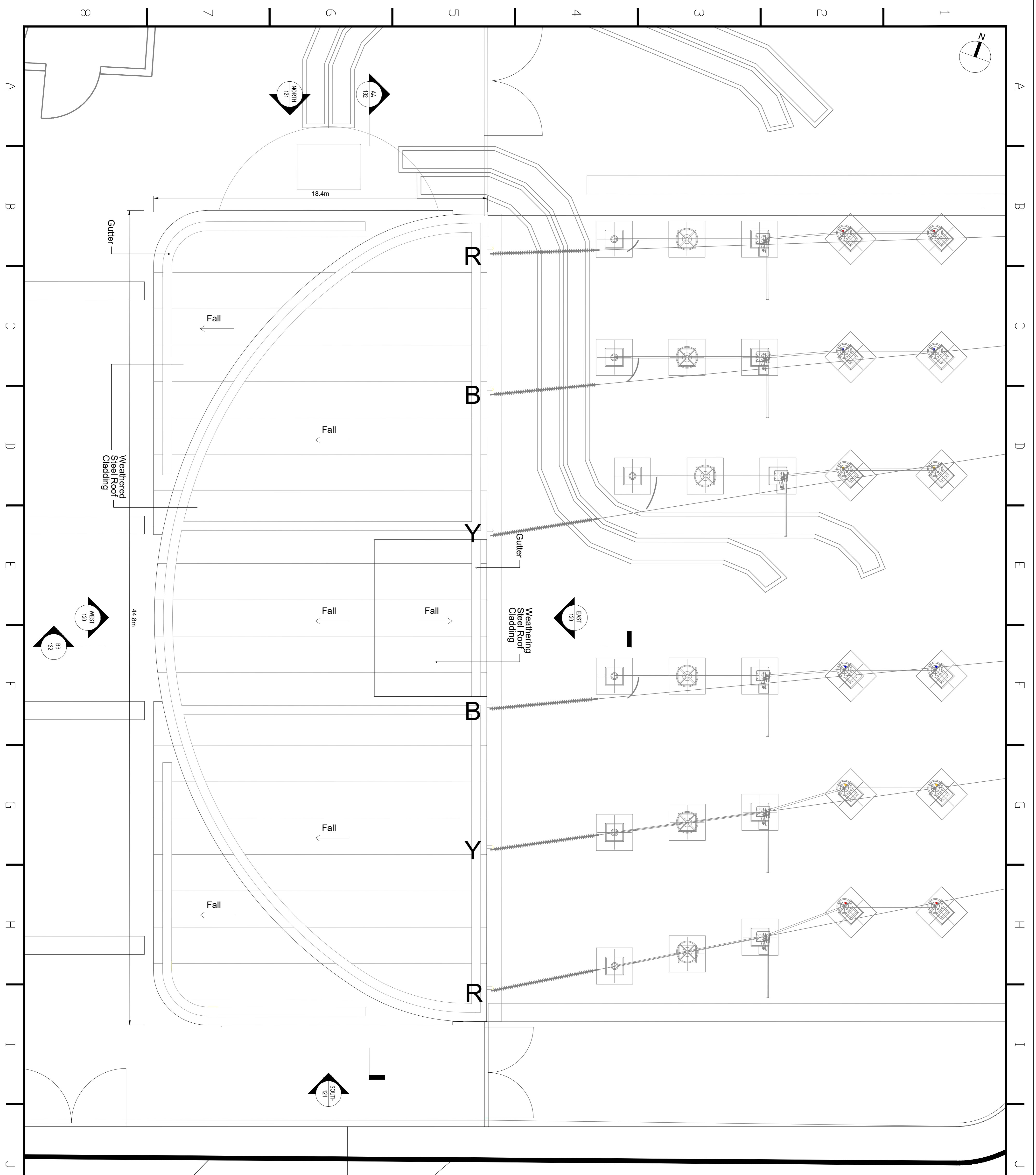


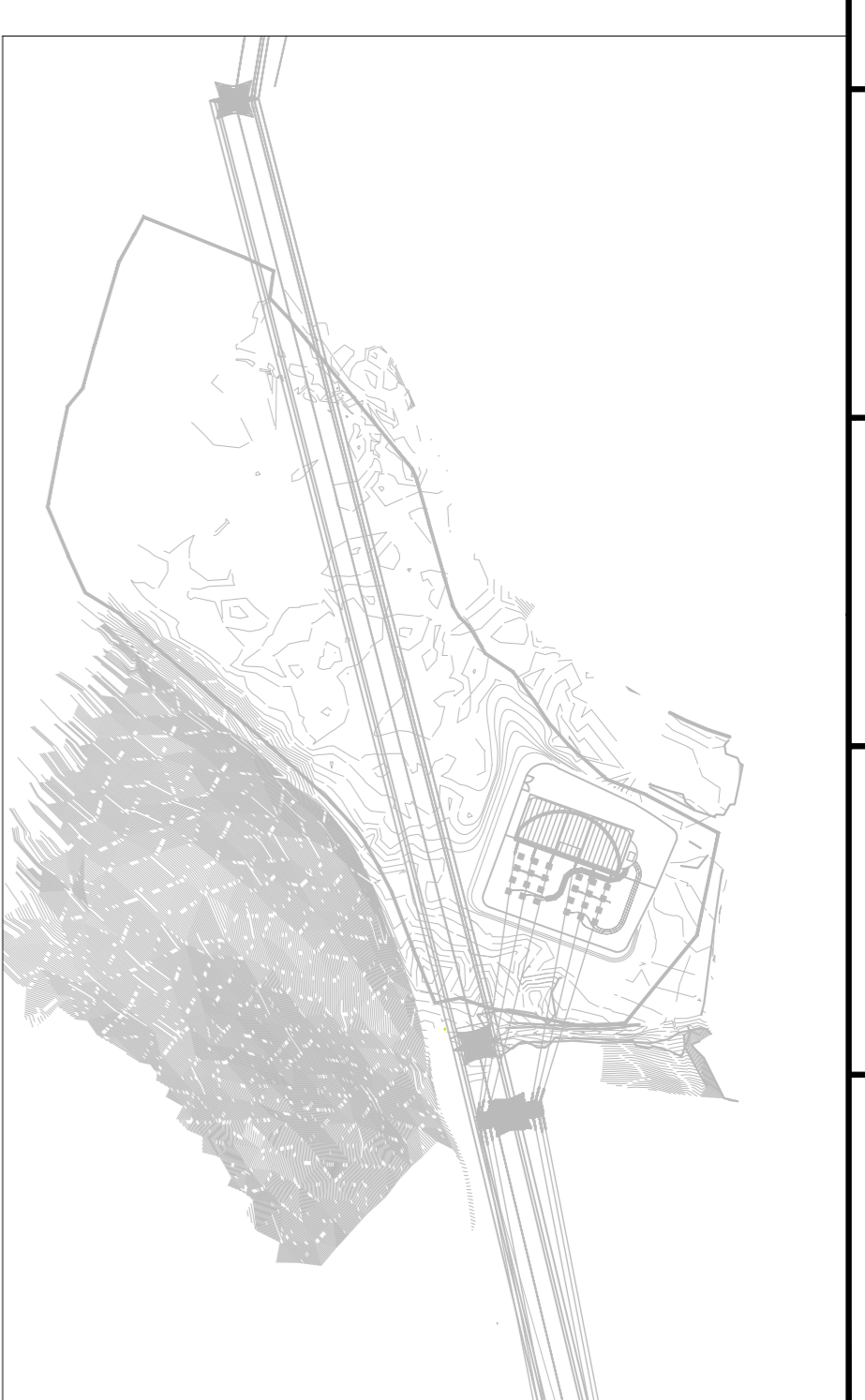
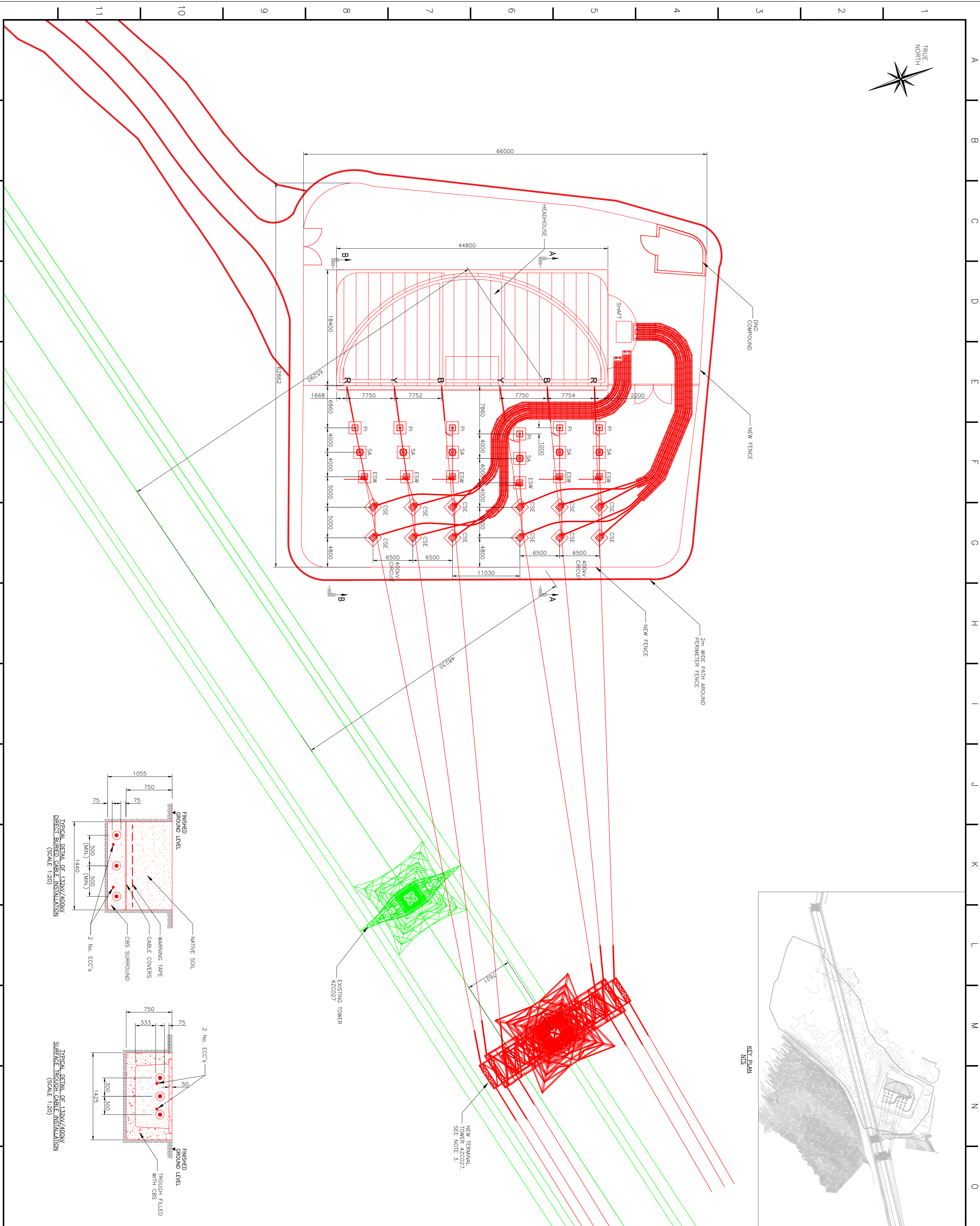
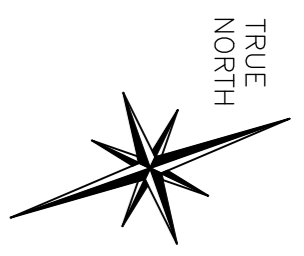
Rev#	Description	By	Check	Appr'd	Date
P01	ISSUED FOR TENDER	JR	GG	CM	12.07.19
F02	ISSUED FOR PLANNING	MAC	CN	CN	31.10.19
F03	MODIFIED TO SHOW TWO CABLES PER PHASE	MAC	CN	CN	30.03.21
F04	MODIFIED IN LINE WITH CLIENTS COMMENTS	MAC	CN	CN	15.07.21

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Master Scheme No	3494	Sub-Scheme No	VP	Site	SNOWDONIA EAST SITE
Scheme Name	EAST HEAD HOUSE				
Document Title	PROPOSED ROOF PLAN CILFOR				

Created by	JR	Date	07.06.19	Checked by	GG	Date	07.06.19	Approved by	CM	Date	07.06.19
Development Eng	ARC	Document Type	ARC	Scale	1:100	Format	A1	Sheets	1 OF 1	Rev	P04
National Grid Document Numbers											
PDD-3494-ARC-112											
FEED Document Numbers *****											



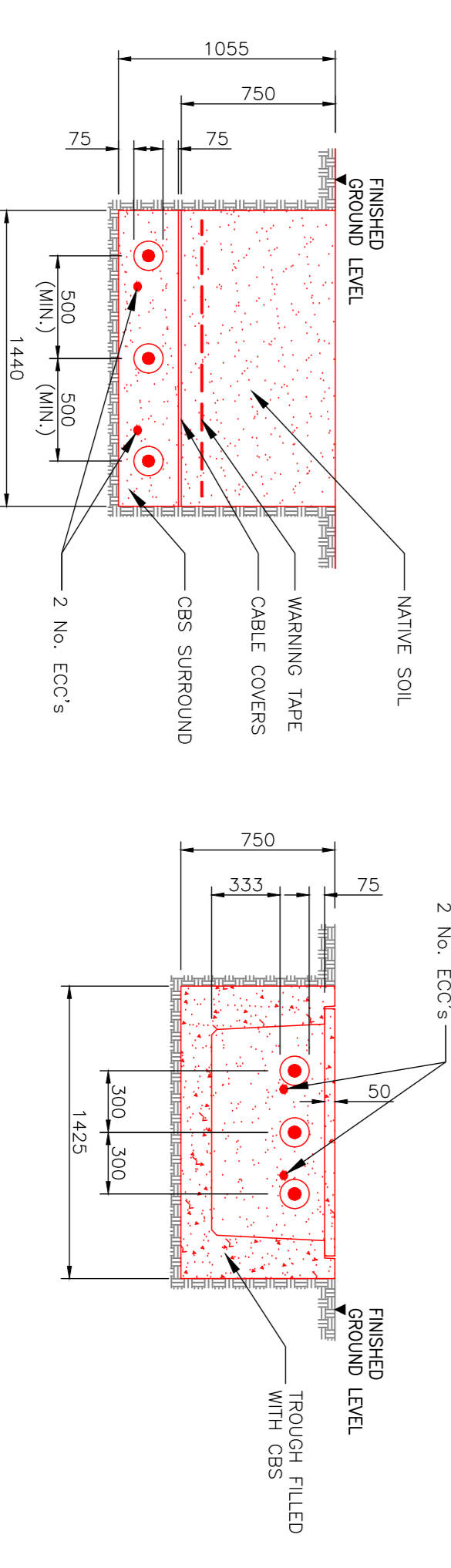
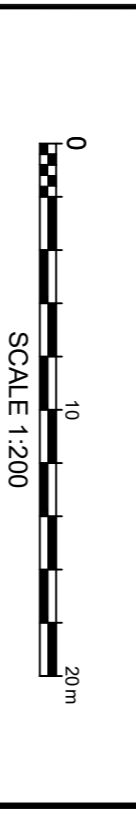


SUBSTATION MINIMUM ELECTRICAL CLEARANCES IN ACCORDANCE WITH TS 2.11				
SEE	NOMINAL SYSTEM VOLTAGE (kV)	132kV	132kV	400kV
1	PHASE TO EARTH CLEARANCE	1.1M	2.8M	4.00M
2	PHASE TO PHASE CLEARANCE	1.4M	3.6M	
3	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH1	2.9M	4.6M	
4	DESIGN CLEARANCE FOR SAFETY (VERTICAL) DSH1	3.8M	5.5M	
5	INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4M	2.4M	
6	SAFETY DISTANCE (FROM NOC SAFETY RULES)	1.4M	3.1M	
7	MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH2	4.9M	6.6M	
8	MEWP DESIGN CLEARANCE FOR SAFETY (VERTICAL) DSH2	5.8M	7.5M	

- NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS.
 2. 400kV AND 132kV CABLES SHALL BE INSTALLED DIRECTLY INTO TROUGHS FROM HEADHOUSE AND THEN TRANSITION INTO DIRECT BURY TOWARDS CABLE SEALING END, AS PER TYPICAL CABLE SECTIONS.
 3. THE POSITIONING OF THE NEW TOWER HAS BEEN PROPOSED BY NATIONAL GRID'S CONTRACTOR. THE POSITIONING AND CLIENTS OF THE TOWER SHALL BE THE RESPONSIBILITY OF THE CLIENTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND ADHERENCE TO CLEARANCES HAS NOT BEEN ASSESSED IN ANY WAY BY WSP.
 4. WSP HAVE CHECKED THE CLEARANCES OF THE SEC EQUIPMENT AND THH AGAINST THE CONDUCTORS.

- LEGEND:
- PI — POST INSULATOR
 - ESW — EARTHING SWITCH
 - SA — SURGE ARRESTER
 - CSE — CABLE SEALING END
 - REMOVED EQUIPMENT
 - NEW EQUIPMENT

ASSOCIATED DRAWINGS:
 PDD-33494-LAY-022 - PROPOSED CLEOF SEALING
 PDD-33494-LAY-022 - END COMPOUND ELEVATION



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PROPOSED CLEOF SEALING END
 COMPOUND LAYOUT

Order No.	Date	Order No.	Date	Project No.	Date
001	05/06/19	002	06/06/19	MR	05/06/19
002	05/06/19	003	06/06/19	MR	05/06/19
003	05/06/19	004	06/06/19	MR	05/06/19
004	05/06/19	005	06/06/19	MR	05/06/19
005	05/06/19	006	06/06/19	MR	05/06/19
006	05/06/19	007	06/06/19	MR	05/06/19
007	05/06/19	008	06/06/19	MR	05/06/19
008	05/06/19	009	06/06/19	MR	05/06/19
009	05/06/19	010	06/06/19	MR	05/06/19
010	05/06/19	011	06/06/19	MR	05/06/19
011	05/06/19	012	06/06/19	MR	05/06/19
012	05/06/19	013	06/06/19	MR	05/06/19
013	05/06/19	014	06/06/19	MR	05/06/19
014	05/06/19	015	06/06/19	MR	05/06/19
015	05/06/19	016	06/06/19	MR	05/06/19
016	05/06/19	017	06/06/19	MR	05/06/19
017	05/06/19	018	06/06/19	MR	05/06/19
018	05/06/19	019	06/06/19	MR	05/06/19
019	05/06/19	020	06/06/19	MR	05/06/19
020	05/06/19	021	06/06/19	MR	05/06/19

SUBSTATION MINIMUM ELECTRICAL CLEARANCES IN ACCORDANCE WITH TS 2.1			
REF	NOMINAL SYSTEM VOLTAGE (rms)	132kV	400kV
1	PHASE TO EARTH CLEARANCE	1.1M	2.8M
2	PHASE TO PHASE CLEARANCE	1.4M	3.6M
3	DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH1	2.9M	4.6M
4	DESIGN CLEARANCE FOR SAFETY (VERTICAL) DSH1	3.8M	5.5M
5	INSULATION HEIGHT (PEDESTRIAN ACCESS)	2.4M	2.4M
6	SAFETY DISTANCE (FROM NGC SAFETY RULES)	1.4M	3.1M
7	MEWP DESIGN CLEARANCE FOR SAFETY (HORIZONTAL) DSH2	4.9M	6.6M
8	MEWP DESIGN CLEARANCE FOR SAFETY (VERTICAL) DSH2	5.8M	7.5M

NOTES:
1. ALL DIMENSIONS ARE IN MILLIMETERS.

LEGEND:
PI - POST INSULATOR
ESW - MOTORISED EARTH SWITCH
SA - SURGE ARRESTER
CSE - CABLE SEALING END

ASSOCIATED DRAWINGS:
PDD-33494-LAY-021 - PROPOSED CLIFOR SEALING
END COMPOUND LAYOUT



Rev	Description	Cre'd	Chk'd	App'd	Date
P0	FIRST ISSUE	SV	JO	MR	05.06.19
P1	132kV CSE ROTATED, FENCE ADDED	SV	JO	MR	24.06.19
P2	DIMENSIONS ADDED TO CENTRE OF BUSBAR HEIGHT	MAC	CN	MR	27.11.19
P3	AMENDED TO SHOW TWO CABLES PER PHASE	MAC	CN	MR	25.03.21
P4	MODIFIED IN LINE WITH CLIENTS COMMENTS	MAC	CN	CN	14.07.21

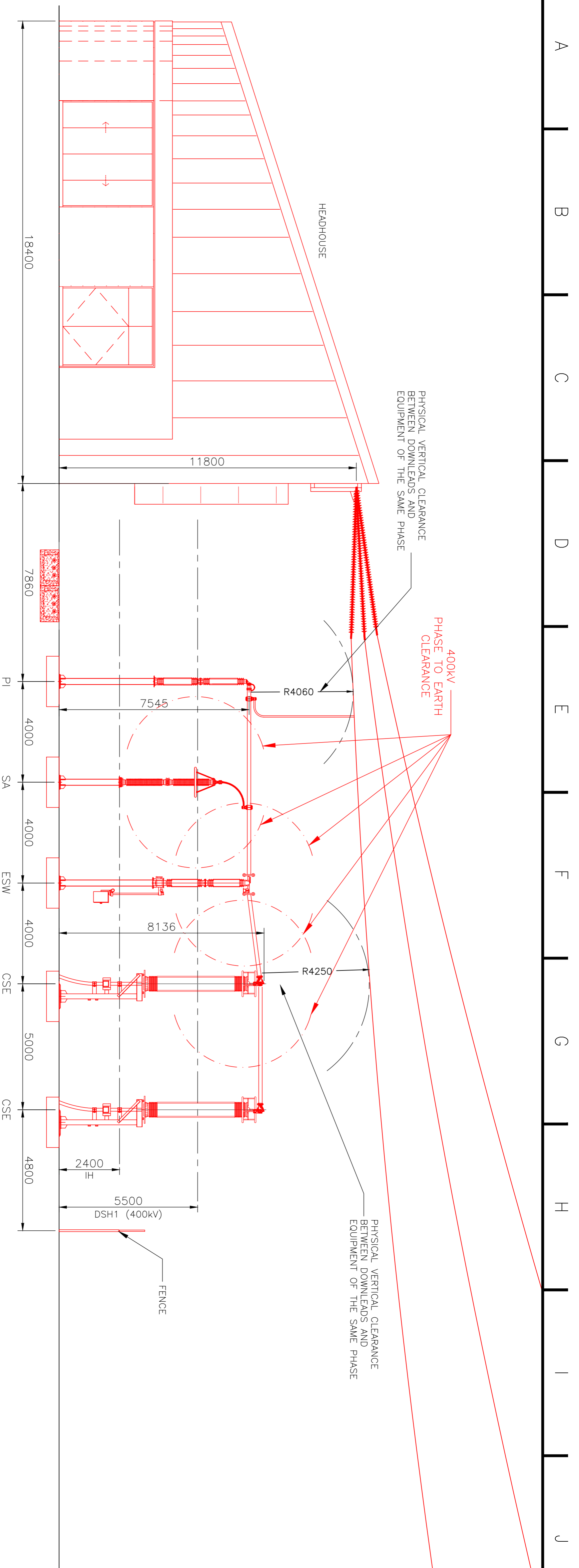
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Master Scheme No: 33494
Site: EAST SITE
Scheme Name: SNOWDONIA VIP

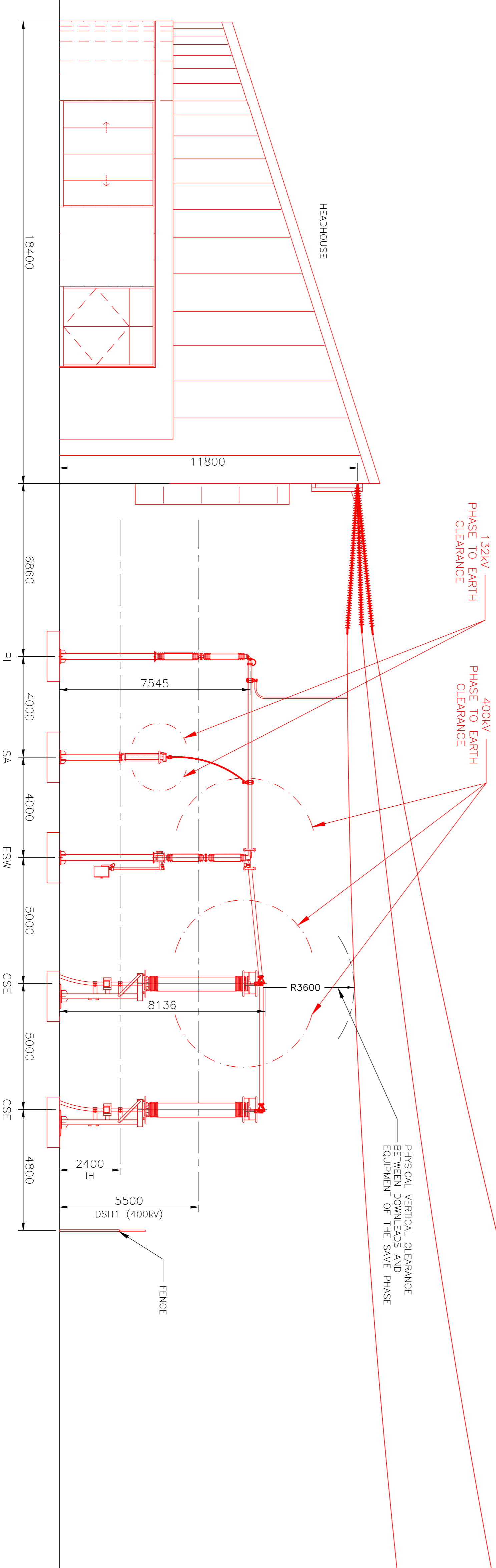
PROPOSED CLIFOR SEALING END
COMPOUND ELEVATION

Created By	Date	Checked By	Date	Approved By	Date
SV	05/06/19	JO	05/06/19	MR	05/06/19
Development Eng:	Document Type:	Scale:	Format:	Sheet(s):	Rev:
James Buckley	LAY	1:100	A1	1 OF 1	P4

FEED Document Number:
PDD-33494-LAY-022



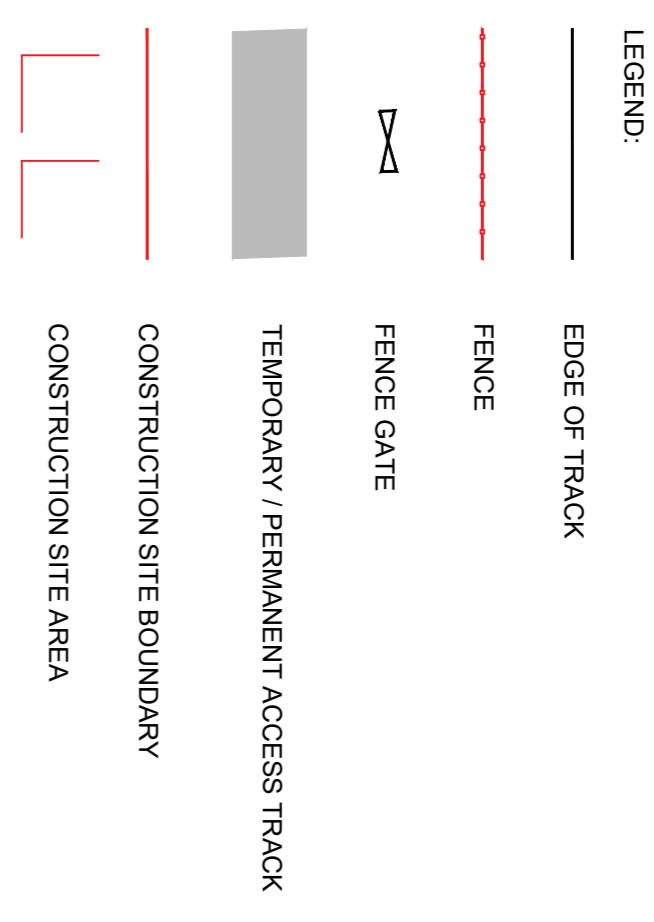
SECTION A-A
400kV CIRCUIT



SECTION B - B
132kV CIRCUIT

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 2. DO NOT CONSTRUCT FROM THIS DRAWING
 3. ABOVE THE EXISTING GROUND LEVELS HAS BEEN ASSUMED TO BE 1m
 4. THE SCOPE OF THE DESIGN REGARDING FLOOD LEVELS HAS NOT BEEN TAKEN INTO CONSIDERATION AT THIS STAGE FOR THE FINISH LEVEL OF THE TRACK



Rev	Description	HW	RR	CN	AW	Date
P1	FIRST ISSUE	HW	RR	CN	AW	05/03/18
P2	3D DESIGN	HW	RR	AW	10/06/19	
P3	UPDATE TO PEAT DEPTHS	HW	RR	CN	14/06/19	
P4	PEAT DEPTH UPDATED	HW	RR	CN	03/02/20	
P5	TYPICAL TRACK CROSS SECTION AMENDED	PR	HW	RR	01/06/20	
P6	MINOR AMENDMENTS TO TYPICAL TRACK CROSS SECTION	PR	HW	CN	17/06/20	
P7	ADDITIONAL AMENDMENTS TO TYPICAL TRACK CROSS SECTION	MAC	HW	CN	23/07/20	

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National Grid plc, Warwick Technology Park, Galvani Hill, Warwick, CV34 6DA

33494 PROJECT WIDE
SNOWDONIA VIP

Document Title: EASTERN SHAFT SITE - CONSTRUCTION AND PERMANENT ACCESS TRACK

Created By	Date	Created By	Date	Approved By	Date
HW	15/03/18	RR	15/03/18	SS	15/03/18
Development Eng	Document Type	Scale	Frame	Sheets	Rev
JB	HW	1:500	A1	1 OF 1	P7

National Grid Document Number: PDD-33494-TUN-004F
FEED Document Number:

Level Datum =2000	0.000	10.000	20.000	30.000	40.000	50.000	60.000	70.000	80.000	90.000	100.000	110.000	120.000	130.000	140.000	150.000	160.000	170.000	180.000	190.000	200.000	210.000	220.000	230.000	240.000	250.000	260.000	270.000	280.000	290.000	300.000		
DESIGN LEVELS	3.25	3.630	3.698	3.766	3.777	3.720	3.616	3.570	3.487	3.451	3.487	3.419	3.390	3.364	3.342	3.324	3.309	3.288	3.296	3.345	3.614	3.774	3.814	3.559	3.573	4.079	5.086	6.000	6.000	6.000			
Gradient		0.683	0.683	0.683	0.108	-0.570	-0.535	-0.465	-0.395	-0.360	-0.430	-0.325	-0.290	-0.255	-0.220	-0.185	-0.150	-0.115	-0.103	0.489	1.059	1.629	1.814	-1.697	0.138	5.067	10.067	13.068	13.068	13.068			
GROUND LEVELS	3.51	2.727	2.901	3.063	2.885	3.022	2.972	3.011	2.941	2.837	2.825	2.791	2.844	2.864	2.830	2.800	2.735	2.643	2.689	2.884	2.923	2.860	3.188	3.395	2.986	2.920	2.963	3.036	3.149	3.149	3.149		
LEVEL DIFFERENCE	0.000	0.603	0.787	0.703	0.892	0.698	0.694	0.629	0.660	0.690	0.662	0.660	0.305	0.526	0.512	0.524	0.574	0.655	0.427	0.461	0.528	0.754	0.586	0.419	0.478	0.573	0.653	1.116	2.050	2.801	2.801		
Horizontal																																	
Vertical																																	
Changeage																																	

