

TABLE OF STEEL SHEET PILE ELEVATION
SETTING OUT POINTS
SEE DRAWING NUMBER: CCD-JBAU-00-11-DR-C-3200 TO 3204

SETTING OUT POINTS CO-ORDINATES			
REFERENCE	EASTING (m)	NORTHING (m)	LEVEL (m OD)
SOP (32)1	321552	177514	+9.70
SOP (32)2	321544	177519	+9.70
SOP (32)3	321535	177525	+9.70
SOP (32)4	321527	177531	+9.70
SOP (32)5	321519	177536	+9.70
SOP (32)6	321511	177542	+9.70
SOP (32)7	321503	177549	+9.70
SOP (32)8	321496	177556	+9.70
SOP (32)9	321489	177562	+9.70
SOP (32)10	321482	177569	+9.70
SOP (32)11	321475	177577	+9.70
SOP (32)12	321469	177584	+9.70
SOP (32)13	321463	177592	+9.70
SOP (32)14	321457	177599	+9.70
SOP (32)15	321452	177607	+9.70
SOP (32)16	321447	177615	+9.70
SOP (32)17	321443	177623	+9.70
SOP (32)18	321439	177631	+9.70
SOP (32)19	321434	177639	+9.70
SOP (32)20	321431	177649	+9.70

SETTING OUT POINTS CO-ORDINATES			
REFERENCE	EASTING (m)	NORTHING (m)	LEVEL (m OD)
SOP (32)21	321428	177658	+9.70
SOP (32)22	321427	177667	+9.70
SOP (32)23	321426	177677	+9.70
SOP (32)24	321427	177687	+9.70
SOP (32)25	321428	177696	+9.70
SOP (32)26	321428	177706	+9.70
SOP (32)27	321429	177716	+9.70
SOP (32)28	321430	177726	+9.70
SOP (32)29	321433	177736	+9.70
SOP (32)30	321435	177745	+9.70
SOP (32)31	321438	177755	+9.70
SOP (32)32	321441	177764	+9.70
SOP (32)33	321446	177773	+9.70
SOP (32)34	321450	177782	+9.70
SOP (32)35	321454	177791	+9.70
SOP (32)36	321459	177800	+9.70
SOP (32)37	321463	177809	+9.70
SOP (32)38	321468	177818	+9.70
SOP (32)39	321472	177827	+9.70
SOP (32)40	321477	177836	+9.70

SETTING OUT POINTS CO-ORDINATES			
REFERENCE	EASTING (m)	NORTHING (m)	LEVEL (m OD)
SOP (32)41	321480	177845	+9.70
SOP (32)42	321485	177854	+9.70
SOP (32)43	321490	177862	+9.70
SOP (32)44	321495	177871	+9.70
SOP (32)45	321501	177879	+9.70
SOP (32)46	321507	177887	+9.70
SOP (32)47	321513	177895	+9.70
SOP (32)48	321520	177902	+9.70
SOP (32)49	321527	177909	+9.70
SOP (32)50	321534	177917	+9.70
SOP (32)51	321541	177923	+9.70
SOP (32)52	321548	177930	+9.70
SOP (32)53	321556	177937	+9.70
SOP (32)54	321563	177944	+9.70
SOP (32)55	321571	177951	+9.70
SOP (32)56	321578	177957	+9.70
SOP (32)57	321585	177964	+9.70
SOP (32)58	321593	177970	+9.70
SOP (32)59	321601	177977	+9.70
SOP (32)60	321608	177983	+9.70

TABLE OF ANCHOR TOE ELEVATION
SETTING OUT POINTS
SEE DRAWING NUMBER: CCD-JBAU-00-11-DR-C-3200 TO 3204

SETTING OUT POINTS CO-ORDINATES			
REFERENCE	EASTING (m)	NORTHING (m)	LEVEL (m OD)
SOP (32)132	321540	177558	-2.50
SOP (32)133	321532	177565	-2.50
SOP (32)134	321524	177571	-2.50
SOP (32)135	321517	177577	-2.50
SOP (32)136	321509	177584	-2.50
SOP (32)137	321502	177591	-2.50
SOP (32)138	321495	177598	-2.50
SOP (32)139	321488	177605	-2.50
SOP (32)140	321481	177613	-2.50
SOP (32)141	321475	177620	-2.50
SOP (32)142	321469	177628	-2.50
SOP (32)143	321464	177637	-2.50
SOP (32)144	321459	177645	-2.50
SOP (32)145	321455	177655	-2.50
SOP (32)146	321453	177665	-2.50
SOP (32)147	321452	177675	-2.50
SOP (32)148	321453	177684	-2.50
SOP (32)149	321455	177694	-2.50
SOP (32)150	321457	177704	-2.50
SOP (32)151	321460	177714	-2.50

SETTING OUT POINTS CO-ORDINATES			
REFERENCE	EASTING (m)	NORTHING (m)	LEVEL (m OD)
SOP (32)152	321462	177724	-2.50
SOP (32)153	321465	177733	-2.50
SOP (32)154	321468	177743	-2.50
SOP (32)155	321471	177752	-2.50
SOP (32)156	321475	177761	-2.50
SOP (32)157	321479	177771	-2.50
SOP (32)158	321483	177780	-2.50
SOP (32)159	321487	177789	-2.50
SOP (32)160	321492	177797	-2.50
SOP (32)161	321497	177806	-2.50
SOP (32)162	321502	177815	-2.50

TABLE OF BENCHING ELEVATION
SETTING OUT POINTS
SEE DRAWING NUMBER: CCD-JBAU-00-11-DR-C-3200 TO 3204

SETTING OUT POINTS CO-ORDINATES			
REFERENCE	EASTING (m)	NORTHING (m)	LEVEL (m OD)
SOP (32)100	321529	177546	+3.00
SOP (32)101	321522	177552	+3.00
SOP (32)102	321514	177558	+3.00
SOP (32)103	321506	177565	+3.00
SOP (32)104	321498	177571	+3.00
SOP (32)105	321490	177579	+3.00
SOP (32)106	321482	177587	+3.00
SOP (32)107	321477	177595	+3.00
SOP (32)108	321471	177603	+3.00
SOP (32)109	321464	177612	+3.00
SOP (32)110	321457	177621	+3.00
SOP (32)111	321452	177630	+3.00
SOP (32)112	321446	177639	+3.00
SOP (32)113	321442	177651	+3.00
SOP (32)114	321440	177662	+3.00
SOP (32)115	321439	177675	+3.00
SOP (32)116	321440	177687	+3.00
SOP (32)117	321442	177697	+3.00
SOP (32)118	321444	177707	+3.00
SOP (32)119	321446	177717	+3.00

SETTING OUT POINTS CO-ORDINATES			
REFERENCE	EASTING (m)	NORTHING (m)	LEVEL (m OD)
SOP (32)120	321448	177727	+3.00
SOP (32)121	321450	177738	+3.00
SOP (32)122	321453	177748	+3.00
SOP (32)123	321456	177758	+3.00
SOP (32)124	321460	177768	+3.00
SOP (32)125	321464	177777	+3.00
SOP (32)126	321468	177787	+3.00
SOP (32)127	321473	177796	+3.00
SOP (32)128	321478	177805	+3.00
SOP (32)129	321482	177814	+3.00
SOP (32)130	321487	177823	+3.00
SOP (32)131	321490	177827	+3.00

UTILITY SERVICES INVESTIGATION GAUGE TO PAS 128			
	TYPE D: DESK STUDY		
	TYPE C: DESK STUDY AND SITE RECONNAISSANCE		
	TYPE B: DESK STUDY WITH SITE RECON AND UTILITY DETECTION SURVEY		
	TYPE A: DESK STUDY WITH SITE RECON, UTILITY DETECTION SURVEY & TRIAL HOLES		
TYPE D	TYPE C	TYPE B	TYPE A
02/04/19			
THE POSITION OF ANY EXISTING PUBLIC OR PRIVATE SEWERS, UTILITY SERVICES, PLANT OR APPARATUS SHOWN ON THIS DRAWING HAS BEEN OBTAINED FROM STATUTORY RECORDS. THE INFORMATION SHOWN IS BELIEVED TO BE CORRECT BUT NO WARRANTY TO THIS IS EXPRESSED OR IMPLIED. OTHER SUCH PLANT OR APPARATUS MAY ALSO BE PRESENT BUT NOT SHOWN. INVESTIGATIONS SHOULD BE UNDERTAKEN ON SITE CONFIRMING LOCATIONS BEFORE BREAKING GROUND.			

General Notes

- All dimensions are shown in millimetres unless otherwise stated and levels are in metres to Ordnance Datum.
- Do not scale from drawings.
- Services shown from desktop utility search dated 2 April 2019 - BIM reference CCD-JBAU-00-00-RP-UT-0001-S2-P01.
- Contains Ordnance Survey data © Crown copyright and database right 2020.
- Drawing intended for consultation only - design may be subject to change.
- Levels and contours shown on drawing are taken from the DTM provided by Future Aerial following their Drone Survey in 2016.
- Exclusion zone for overhead power cables taken from 'Look Out! Look Up! a guide to the safe use of Mechanical Plant in the vicinity of electricity overhead lines' - true distance to be confirmed. Service providers are under consultation to establish safe working distances and methods during ground works.
- Utilities shown at typical depths below ground surface - true depths to be confirmed.
- For information relating to utilities, refer to utility plans and sections. See drawing list for complete list of drawings.
- Cut / fill sections are taken from the project 3D model. For full construction details refer to drawings CCD-JBAU-00-32-DR-C-3220-3222 typical sections.
- See drawings CCD-JBAU-00-32-DR-C-3201 to 3206 for setting out points and tables.

Drawing Key	
	National Grid Overhead High Voltage Pylon
	WPD High Voltage
	WPD / National Grid Overhead High Voltage
	WPD Low Voltage
	Network Rail Historic Cable
	Wales & West IP
MH 	CS Welsh Water Combined
MH 	SW Welsh Water Surface / Private
MH 	BT British Telecom
	BT British Telecom Overhead
	ST Surf Telecom
	VM Virgin Media
MH 	VF Vodafone
MH 	W Welsh Water Trunk
	W Welsh Water Distribution
	W Welsh Water Decommissioned
	Existing Footpath
	Statutory Record Search Area
MH	Manhole

NOT FOR CONSTRUCTION

	Comments									
P01	FOR COMMENT									
Rev.:	Date	Drawn	SC	Designed	DY	Checked	RG	Approved	GK	
Client Approval										
A - Approved										
B - Approved with Revisions										
C - Do Not Use										
Purpose of Issue									Status	
Detailed Design for comment									S3	



35 Perrymount Road
HAYWARDS HEATH
West Sussex
RH16 3BW
United Kingdom

www.jbaconsulting.com

+44 (0)1444 473652
+44 (0)845 862772
info@jbaconsulting.com



Offices at: Colleshill, Doncaster, Edinburgh, Haywards Heath, Leeds, Limerick, Newcastle upon Tyne, Newport, Salford, Skipton, Tadoaster, Thirsk, Wallingford and Warrington

CARDIFF COASTAL DEFENCES

GENERAL ARRANGEMENT
S.O.P. TABLES - LOCATION 32

for



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Scale:	Drawn:	S. Connery	15/06/21
N/A	Designed:	D. Yeomans	15/06/21
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Drawing Number:			Revision
CCD-JBAU-00-32-DR-C-3206			P01