



Kinmel Bay Coastal Defence Improvements Scheme

Method Statement for Ground Investigation Works

Detailed Design Phase

22/03/2024 | v1

Document Reference : Cxxxx – GI – MS – 0

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1. Introduction

- 1.1 This method statement has been prepared by Jones Brothers Civil Engineering UK Ltd for additional ground investigation required for detailed design of the proposed beach access structures on the Kinmel Bay Coastal Defence Improvements Scheme.
- 1.2 Boundary of the proposed works is shown on location plan CH1701-AMEY-HGN-XX-DR-CH-0101-Location-P03 attached to this document. Works will be limited to the red line boundary as shown on the plan. Co-ordinates for the full scheme area are provided in the Appendix.
- 1.3 Ground investigation works on the foreshore will comprise of open excavated trial pits at all proposed access step locations and CPT testing (Cone Penetration Test) at access steps AP8 & AP9, approximately 30m from the sea wall.

2. Timings

- 2.1 The works will commence as soon as the marine licence is granted. It is envisaged the ground investigation work will take no longer than 1 week to be completed.
- 2.2 All works shall be undertaken during daylight hours whilst the tide is out. No work will be undertaken near water.

3. Mobilisation, Site Set up & Beach Access

- 3.1 All plant and equipment will be checked to ensure it is clean and dry before mobilising to site, to prevent transmission of Invasive non-native species.
- 3.2 All plant and equipment will mobilise to site through St Asaph Carpark.
- 3.3 A small area will be set up in the carpark for welfare unit and storage.
- 3.4 Any fuel required shall be stored in the carpark compound in secure 110% bunded fuel tanks. All refuelling shall be undertaken at the carpark compound. Strictly no refuelling shall be permitted on the foreshore.
- 3.5 Adequate fencing shall be erected for security of plant and equipment when not in use.
- 3.6 No plant or equipment shall be left on the foreshore in-between work shifts or high tide.
- 3.7 All plant shall have bio-degradable oil and be complete with emergency spill kits.
- 3.8 All site staff to receive a site induction and be fully briefed on the site H&S and environmental constraints.
- 3.9 All plant and equipment shall access the foreshore via the existing beach access ramp and travel along the foreshore to the required locations.
- 3.10 Emergency plan shall be developed for plant breakdown and recovery which will include a plant fitter in attendance when plant and equipment are on the beach below MHWS.
- 3.11 All activities on site shall have a specific RAMS.

4. Ground Investigation – Open Excavation Trial Pits

- 4.1 Open trial pits are required at 8 locations along the foreshore.
- 4.2 The trial pits shall be excavated with a 21T excavator to a maximum depth of 4m and approximately 2m wide.
- 4.3 No excavation shall be undertaken during high tide or near any water.
- 4.4 A banksman shall be present to keep the public away and at no point shall the excavation be left unsupervised.
- 4.5 No persons will enter the excavation.
- 4.6 Excavations are expected to remain open no longer than 30 minutes.
- 4.7 The excavated soils shall be used for backfilling and replaced in the same sequence as excavated (i.e. final layer with sand)
- 4.8 It is not envisaged there will be any surplus materials from the trial pits.

5. Ground Investigation – CPT Testing (Cone Penetration Test)

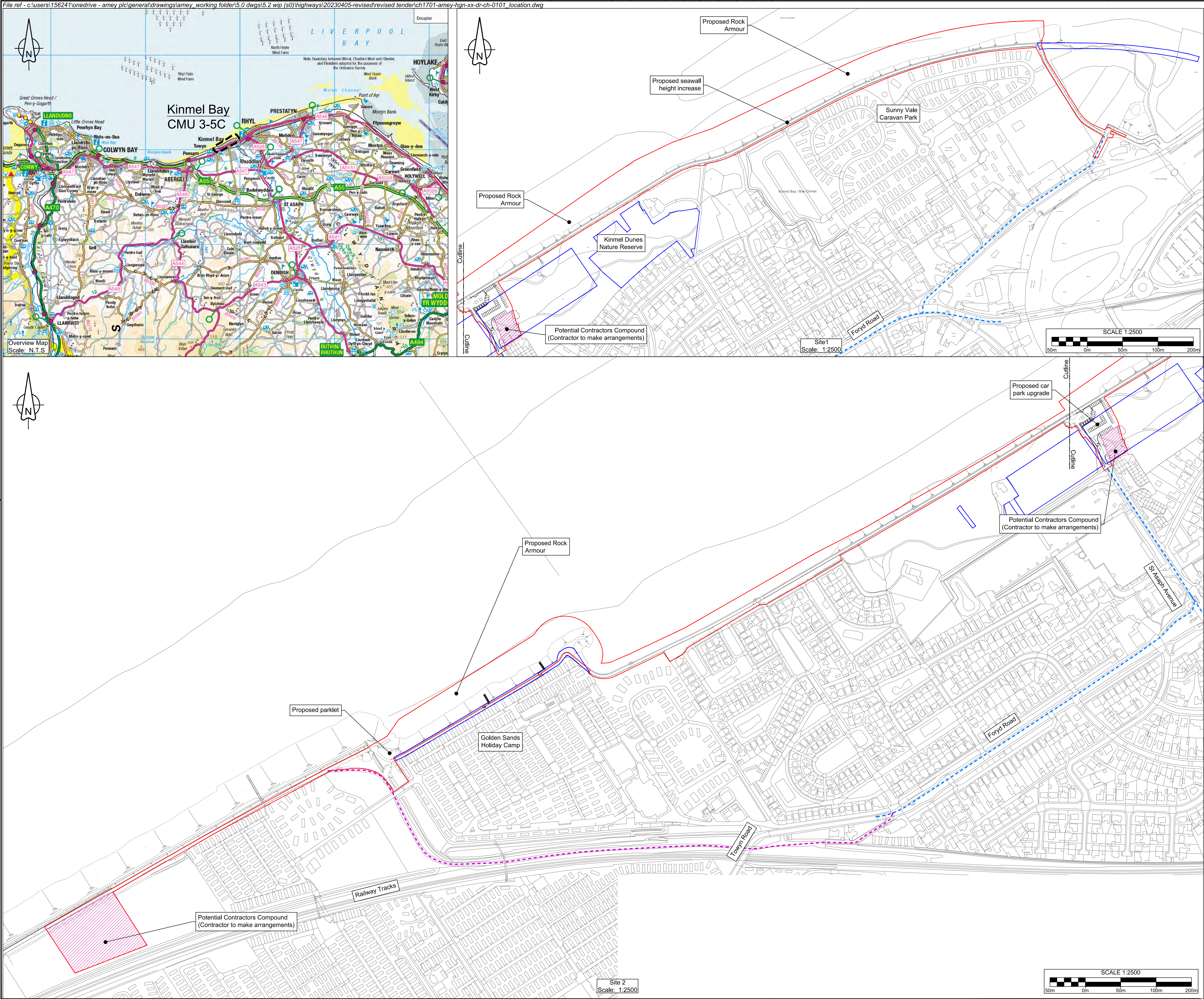
- 5.1 All works shall be undertaken during daylight hours and when the tide is out.
- 5.2 Two CPT Test are required at the proposed beach access steps AP8 & AP9 to test the ground strength to a depth of 10m.
- 5.3 A CPT Bogskipper Tracked Crawler will be mobilised for the testing.
- 5.4 The CPT rig will be a low bearing pressure “Bogskipper” rig and will be self-propelled to its work areas.
- 5.5 Utilising a 15 tonne hydraulic ram, a 33mm diameter rod is forced into the ground at a constant rate measuring the resistance and strength of the ground as it progresses. The equipment is mounted in the centre of a tracked rig specialised for low bearing pressure ground conditions.
- 5.6 One CPT test shall be completed within in one tidal window.
- 5.7 On completion the borehole will be backfilled and reinstated appropriately to original foreshore condition.

APPENDIX – CO-ORDINATES

These co-ordinates are for the full scheme which is subject to Marine Licence CML2272. The proposed Ground Investigation work lies fully within those co-ordinates.

CML 2272 Table 2 Coordinates	
Latitude	Longitude
53.308767	-3.5372187
53.308995	-3.5369568
53.309646	-3.5352841
53.310073	-3.5342037
53.310211	-3.5339985
53.310313	-3.533762
53.310353	-3.5334182
53.310259	-3.5330246
53.310109	-3.5328091
53.309904	-3.5326667
53.309929	-3.5328627
53.309963	-3.532984
53.309999	-3.5330003
53.310016	-3.5330609
53.309987	-3.533195
53.310003	-3.5333906
53.309993	-3.5334353
53.309909	-3.5336575
53.309827	-3.5337596
53.309781	-3.533878
53.309735	-3.5339514
53.309688	-3.5341298
53.309549	-3.53444
53.309456	-3.5346769
53.309371	-3.534974
53.309268	-3.5352705
53.309213	-3.5353586
53.309138	-3.5356111
53.309045	-3.5358179
53.308906	-3.5361881
53.308887	-3.5362625
53.308784	-3.5365439

53.3087	-3.5368111
53.308723	-3.5371121
53.308714	-3.5371568
53.30874	-3.5371727
53.31445	-3.5202502
53.314858	-3.5192889
53.315101	-3.518502
53.315274	-3.5176975
53.316043	-3.5151428
53.316297	-3.5142811
53.316546	-3.5130589
53.316688	-3.5118029
53.31671	-3.5114435
53.316722	-3.5112637
53.316723	-3.5111737
53.316724	-3.5110836
53.316723	-3.5111737
53.316485	-3.5128916
53.316181	-3.5142169
53.315413	-3.5166666
53.315014	-3.5183338
53.314919	-3.5187207
53.314742	-3.5192248
53.314758	-3.5193454
53.31472	-3.5195542
53.314637	-3.5197164



Zero Code

LOOKING OUT FOR ME, YOU AND EVERYONE

To report a Close Call: 0800 52 1 680

To report a CCI: 0844 701 6313

RESIDUAL DESIGN HAZARDS

(The following information has been collected from Preconstruction Information and the Amey CDM Hazard Management Process.)

1. Statutory undertakers apparatus in the vicinity of proposed works.

NOTE:

1. Contains Ordnance Survey data © Crown Copyright and database right 2022

KEY:

Site Location

Extent of site

Land owned by Conwy County Borough Council
(Taken from Land Registry records)

Potential Site Compound

Permitted Access Route

Possible Access Route
(Contractor to gain permission and make all
arrangements with the land owner)

P03	Issue for tender	KW	WB	LS	05/09/23
P02	Issue for planning	KW	WB	LS	22/08/23
P01	Issue for tender	KW	WB	LS	12/05/23
Rev	Revision details	Drwn	Chkd	Appd	Date

Designed:	KW	Date:	22/09/22
Drawn:	KW	Date:	22/09/22
Checked:	NT	Date:	12/10/22
Approved:	WB	Date:	12/10/22

ameyconsulting

LDĀDESIGN

JBA consulting

Client

CONWY

CYNGOR BARDDESTREF SIROL
COUNTY BOROUGH COUNCIL

Ariennir yn Rhannol gan
Lywodraeth Cymru
Part Funded by
Welsh Government

Project Name
Kinmel Bay Coastal Defence Improvements Scheme

Drawing Title
Site Location Plan

Original Drawing Size : A1	Scale : As Shown
Dimensions : -	

Drawing Status
FOR TENDER

Suitability
D2

Drawing No CH1701-AMEY-HGN-XX-DR-CH-0101	Rev P03
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