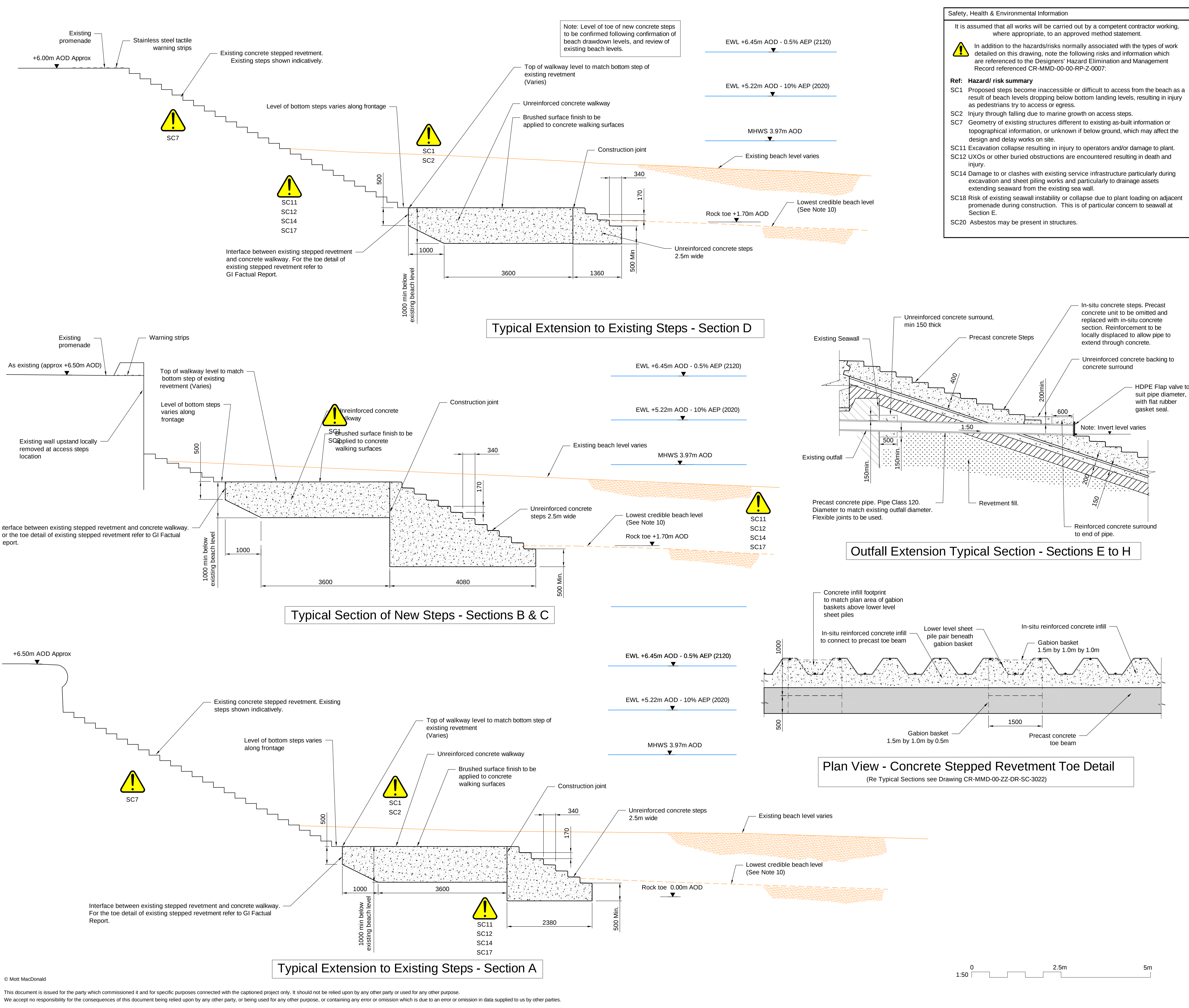




Safety, Health & Environmental Information

It is assumed that all works will be carried out by a competent contractor working, where appropriate, to an approved method statement.

Hazard/ risk summary

SC1 Proposed steps become inaccessible or difficult to access from the beach as a result of beach levels dropping below bottom landing levels, resulting in injury as pedestrians try to access or egress.

SC2 Injury through falling due to marine growth on access steps.

SC7 Geometry of existing structures different to existing as-built information or topographical information, or unknown if below ground, which may affect the design and delay works on site.

SC11 Excavation collapse resulting in injury to operators and/or damage to plant.

SC12 UXOs or other buried obstructions are encountered resulting in death and injury.

SC14 Damage to or clashes with existing service infrastructure particularly during excavation and sheet piling works and particularly to drainage assets extending seaward from the existing sea wall.

SC18 Risk of existing seawall instability or collapse due to plant loading on adjacent promenade during construction. This is of particular concern to seawall at Section E.

SC20 Asbestos may be present in structures.

- Notes
- This drawing is intended to be used as a basis for the Environmental Impact Assessment for the proposed Central Rhyl Coastal Defences Scheme, and it should not be used for any other purpose. It represents the reasonable worst case arrangement of the scheme.
 - This drawing shall be read in conjunction with all discipline information. Any discrepancies shall be referred to Mott MacDonald before proceeding.
 - Unless noted otherwise, all dimensions are in millimetres, all levels in metres above Ordnance Datum (AOD). Do not scale from this drawing, if in doubt ask Mott MacDonald.
 - Mott MacDonald Ltd. has followed accepted procedure in providing the services but given the residual risk associated with any prediction and the variability which can be experienced in flood conditions, Mott MacDonald Ltd. takes no liability for and gives no warranty against actual flooding of any property (clients or third party) or the consequences of flooding in relation to the performance of the service.
 - Tactile warning strips to cover a 800mm wide area, starting 400mm back from top step nosing.
 - Existing street furniture, guardrails, services and outfalls not shown
 - Tide levels are extracted from Welsh Government. Adopting to Climate Change Guidance, 2017. Extreme water levels are derived from Coastal Flood Boundary Conditions for the UK: 2018 update and UK Climate Projections18 Marine Report, 2018.
 - Existing ground levels are assumed from NRW 's Digital Terrain Model (DMT Via Lidar) downloaded in October 2020 (50cm resolution). A topographical survey is required to confirm existing ground levels. Topographical features will be reviewed upon receipt of pending topographical survey, which could affect extent and arrangement of proposed works, for which a variance of 1m has been included.
 - Drawings do not show extent and location of services. See utility plans / statutory undertakers plans for service information. Contractor to undertake pre construction survey to determine full extent of existing services present within working area.
 - Lowest credible beach level added for illustrative purpose. Rock levels not adjusted at Preliminary Design Stage and are subject to further review of the lowest credible beach level at Detailed Design.

Proposals subject to change following detailed design, consultation and necessary approvals.

Key to symbols		MHWS: Mean High Water Spring EWL: Extreme Water Level AEP: Annual Exceedance Probability * LCB - Lowest Credible Beach Level	
	In-situ Concrete		
	Beach Material		
Reference drawings			
CR-MMD-00-XX-DR-SC-7000	Scheme Key Plan		
CR-MMD-00-ZZ-DR-SC-7001	Preliminary Design Plan View - General Arrangement Sheet 01 of 02		
CR-MMD-00-ZZ-DR-SC-7002	Preliminary Design Plan View - General Arrangement Sheet 02 of 02		
CR-MMD-00-ZZ-DR-SC-7101	Preliminary Design - Typical Sections Sheet 01 of 03		
CR-MMD-00-ZZ-DR-SC-7103	Preliminary Design - Typical Sections Sheet 03 of 03		
CR-MMD-00-XX-DR-SP-6001	Prom Structures Preliminary Plan View GA		
CR-MMD-00-XX-DR-SP-6100	Prom Structures Preliminary Typical Sections and Details		
CR-MMD-00-XX-DR-SP-6101	Prom Structures Preliminary Typical Sections and Details		
CR-MMD-00-XX-RP-SC-7005	Visual Condition Survey and Recommendations for Repair Works		

Rev	Date	Drawn	Description	Ch'k'd	App'd
C02	02/09/2021	PS	Accepted with updated LCB *	GW	ZH
P04	10/06/2021	PS	Preliminary design for EIA and consents	GW	ZH
C01	10/06/2021	PS	Stage 3b accepted	GW	ZH
P03	24/03/2021	PK	Minor amendments made	GW	ZH
P02	22/01/2021	PS	Acceptance Issue following Client Comment	FL	ZH
P01	04/11/2021	PS	Preliminary Issue for Comments	FL	ZH

Reasonable Worst Case Design for EIA Only

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Client

Balfour Beatty

sir d d inbych Cyngor
denbighshire County Council

Title					
Central Rhyl Coastal Defences COASTAL STRUCTURES Preliminary Design Typical Sections Sheet 02 of 03					
Designed	P. Kacperek	PK	Eng check	G. Wallace	GW
Drawn	P. Kacperek	PK	Coordination	M. Cowle	MC
Dwg check	G. Wallace	GW	Approved	Z. Hutchison	ZH
MMD Project Number 420823		Scale at A1 1:50			Security STD
Suitability Description Stage 3b - Accepted				Suit. Code A4	
Drawing Number CR-MMD-00-ZZ-DR-SC-7102				Revision C02	