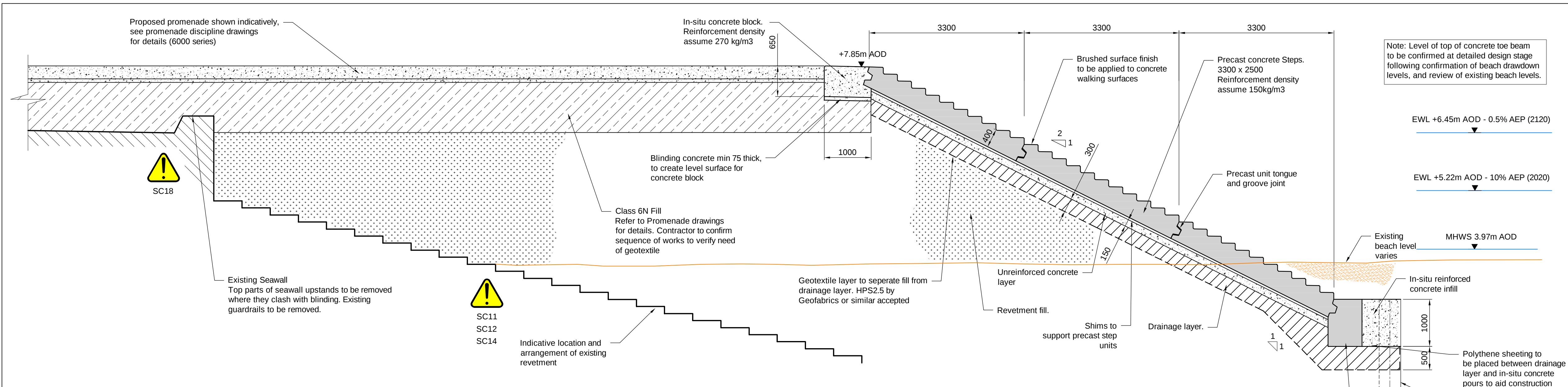
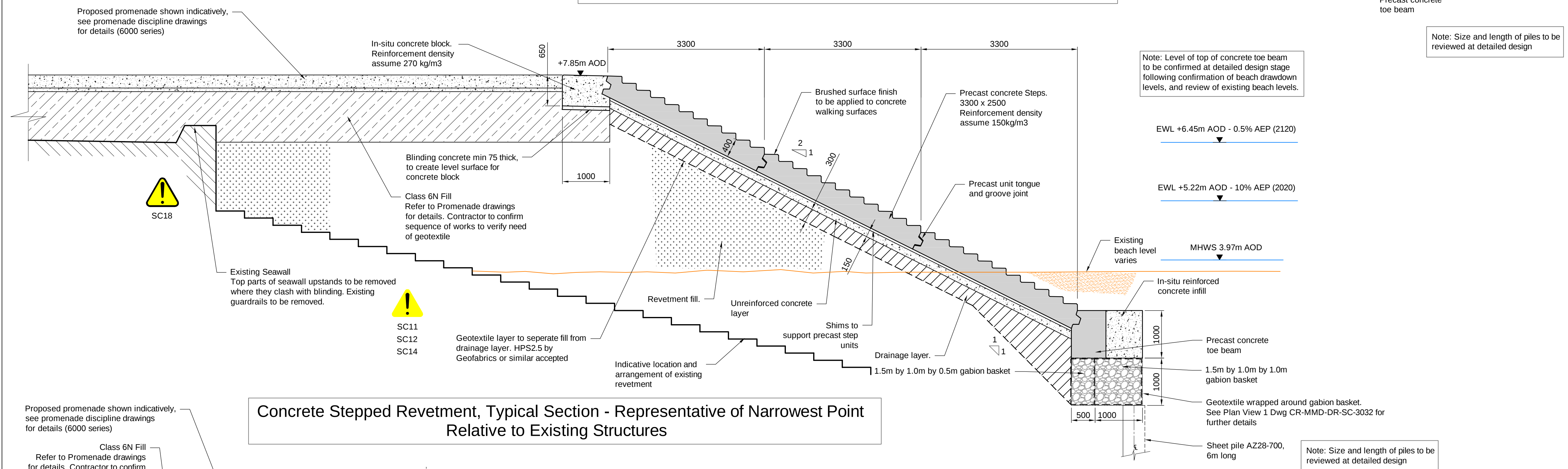
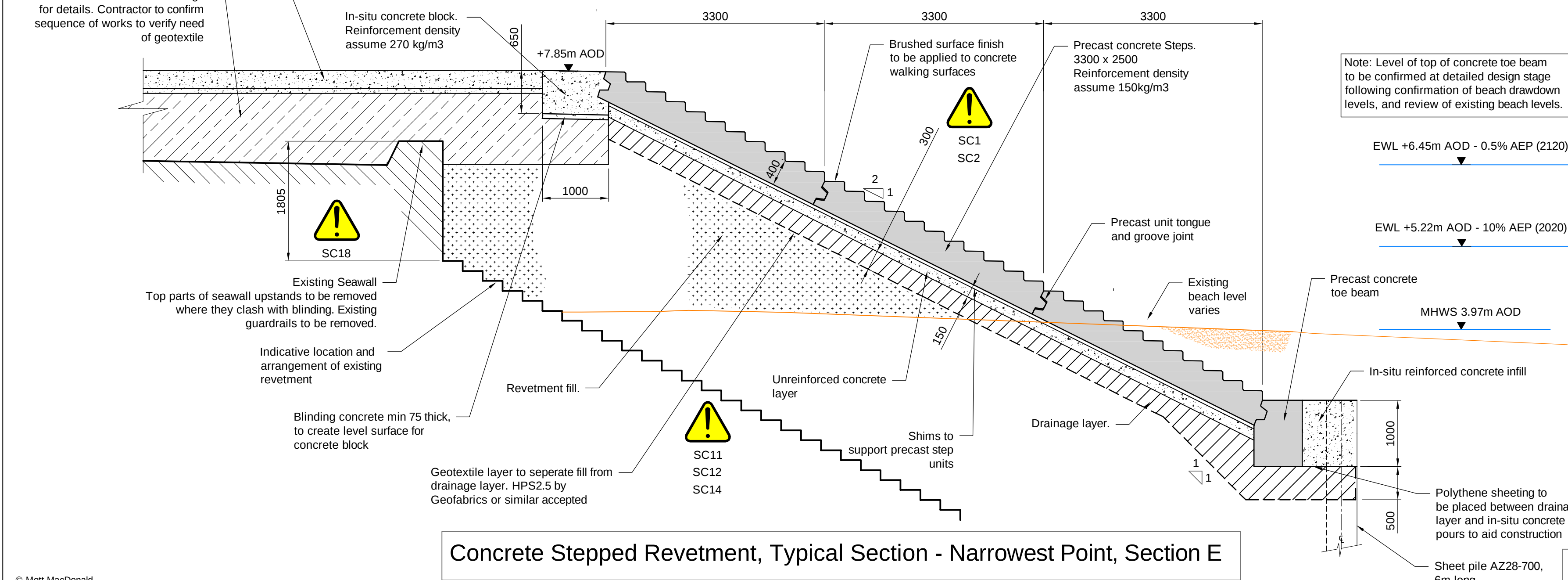




Concrete Stepped Revetment, Typical Section - Widest Point, Section G



Concrete Stepped Revetment, Typical Section - Representative of Narrowest Point
Relative to Existing Structures



Concrete Stepped Revetment, Typical Section - Narrowest Point, Section E

Notes

1. 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.
2. This drawing shall be read in conjunction with all discipline information. Any discrepancies shall be referred to Mott MacDonald before proceeding.
3. 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.
4. Sheet pile toe detail to be confirmed at detailed design stage.
5. 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 performance of the service. Existing street furniture, guardrails, services and outfalls not shown.
6. 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.
8. 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.
9. 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.

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

Key to symbols

 Revetment Fill
  Class 6N Fill

 Drainage layer

 In-situ Concrete

 Precast Concrete

 Beach Material

MHSW: Mean High Water Spring
 EWL: Extreme Water Level
 AEP: Annual Exceedance Probability

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-7102	Preliminary Design - Typical Sections Sheet 02 of 03
CR-MMD-00-ZZ-DR-SC-7003	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

C02	02/09/2021	PS	Client reviewed, minor updates - EIA Accepted	GW	ZH
P04	10/06/2021	PS	Preliminary design for EIA and consents	GW	ZH
P01	10/06/2021	PS	Stage 3b accepted	GW	ZH
P03	09/04/2021	PK	Minor amendments incorporated	GH	ZH
P02	22/01/2021	PK	Acceptance following Clients Comments	FL	ZH
P01	04/11/2020	PK	Preliminary Issue for Comments	FL	ZH
Rev	Date	Drawn	Description	Ch'kd	App'd

Status Stamp

Reasonable Worst Case Design for EIA Only

M **M**
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sir ddinbych Cyngor
denbighshire
County Council



Title	Central Rhyl Coastal Defences COASTAL STRUCTURES Preliminary Design Typical Sections Sheet 01 of 03
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Designed	P. Kacperek	PK	Eng check	G. Wallace	GW
Drawn	P. Kacperek	PS	Coordination	M. Cowie	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-7101					Revision C02

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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.



 In addition to the hazards/risks normally associated with the types of work detailed on this drawing, note the following risks and information which are referenced to the Designers' Hazard Elimination and Management Record referenced CR-MMD-00-00-RP-Z-0007:

Ref: 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.

SC20 Asbestos may be present in structures.