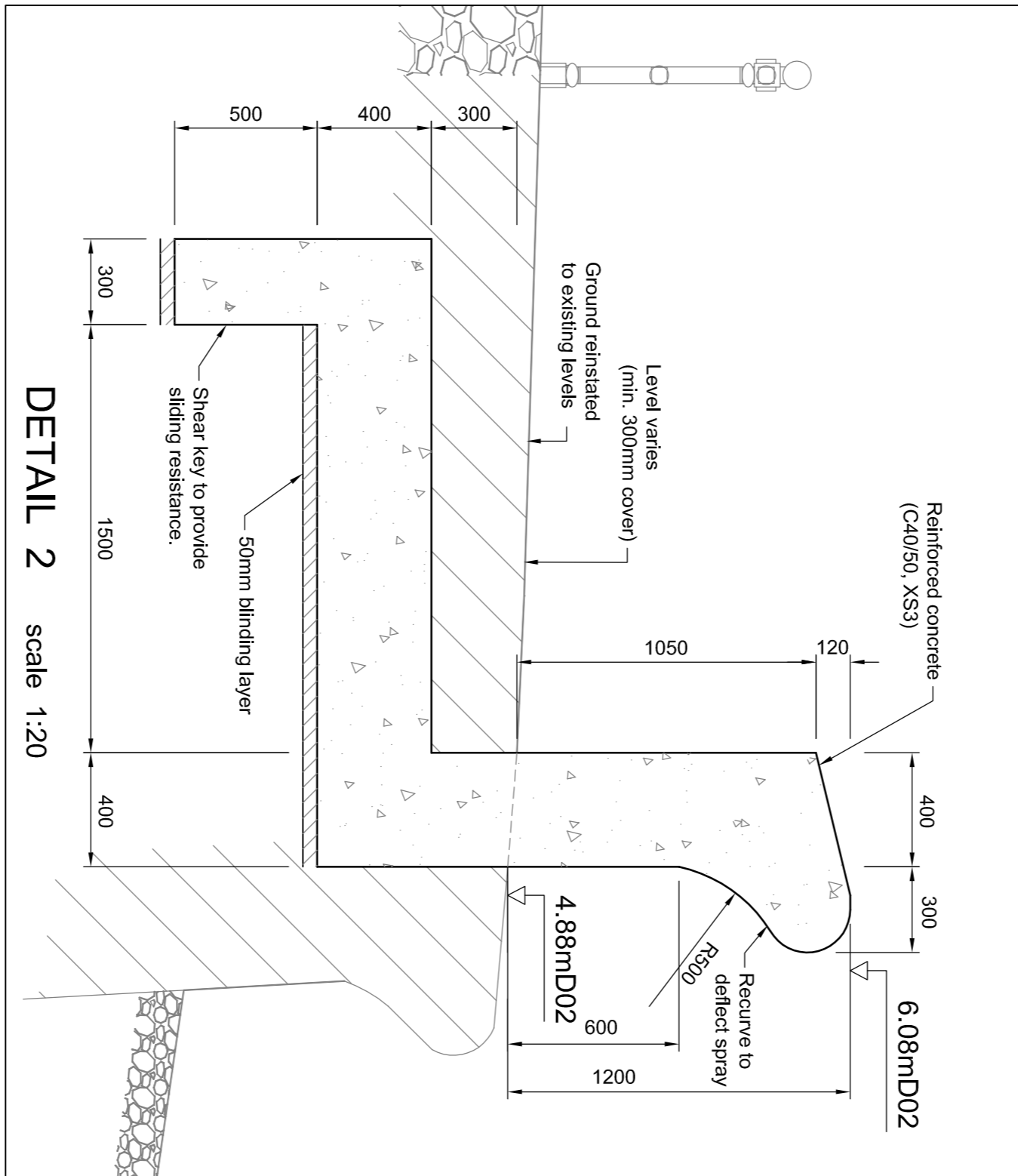
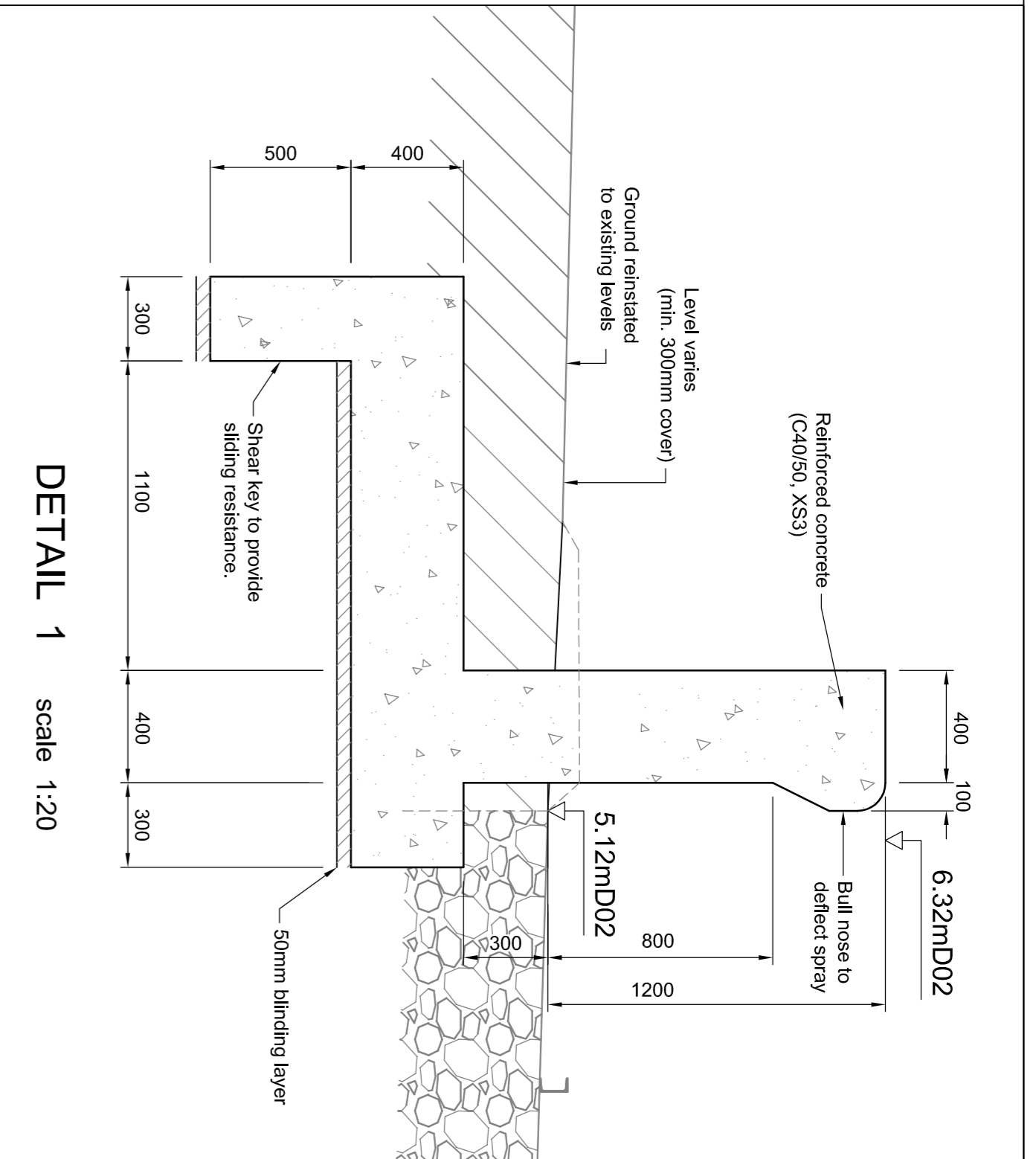
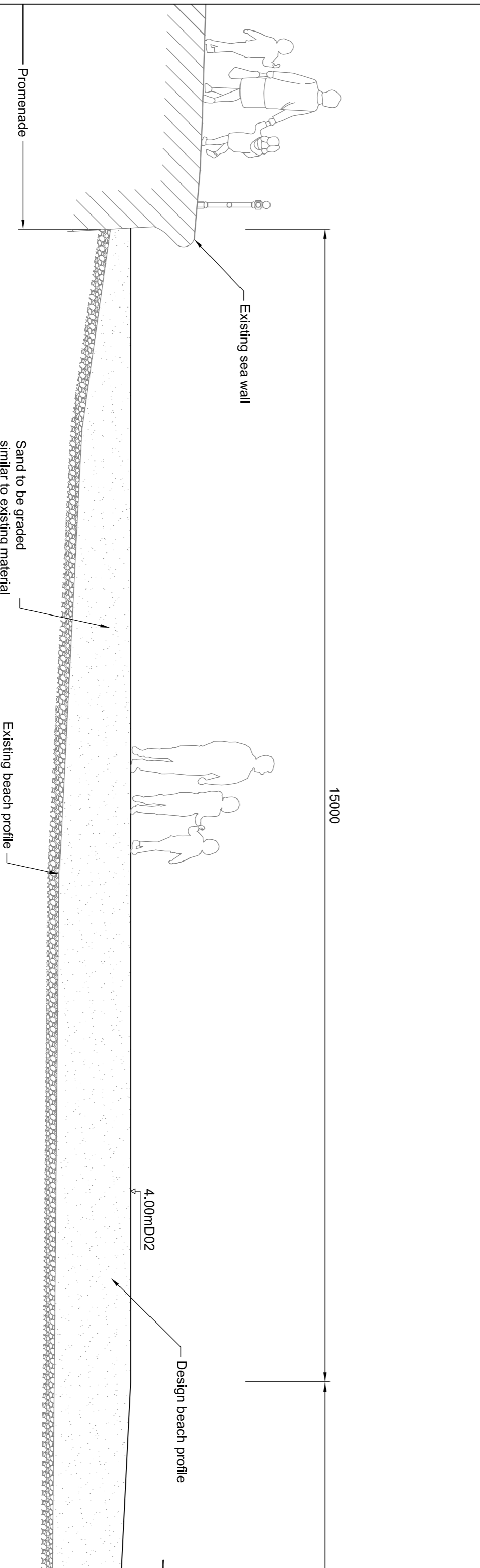
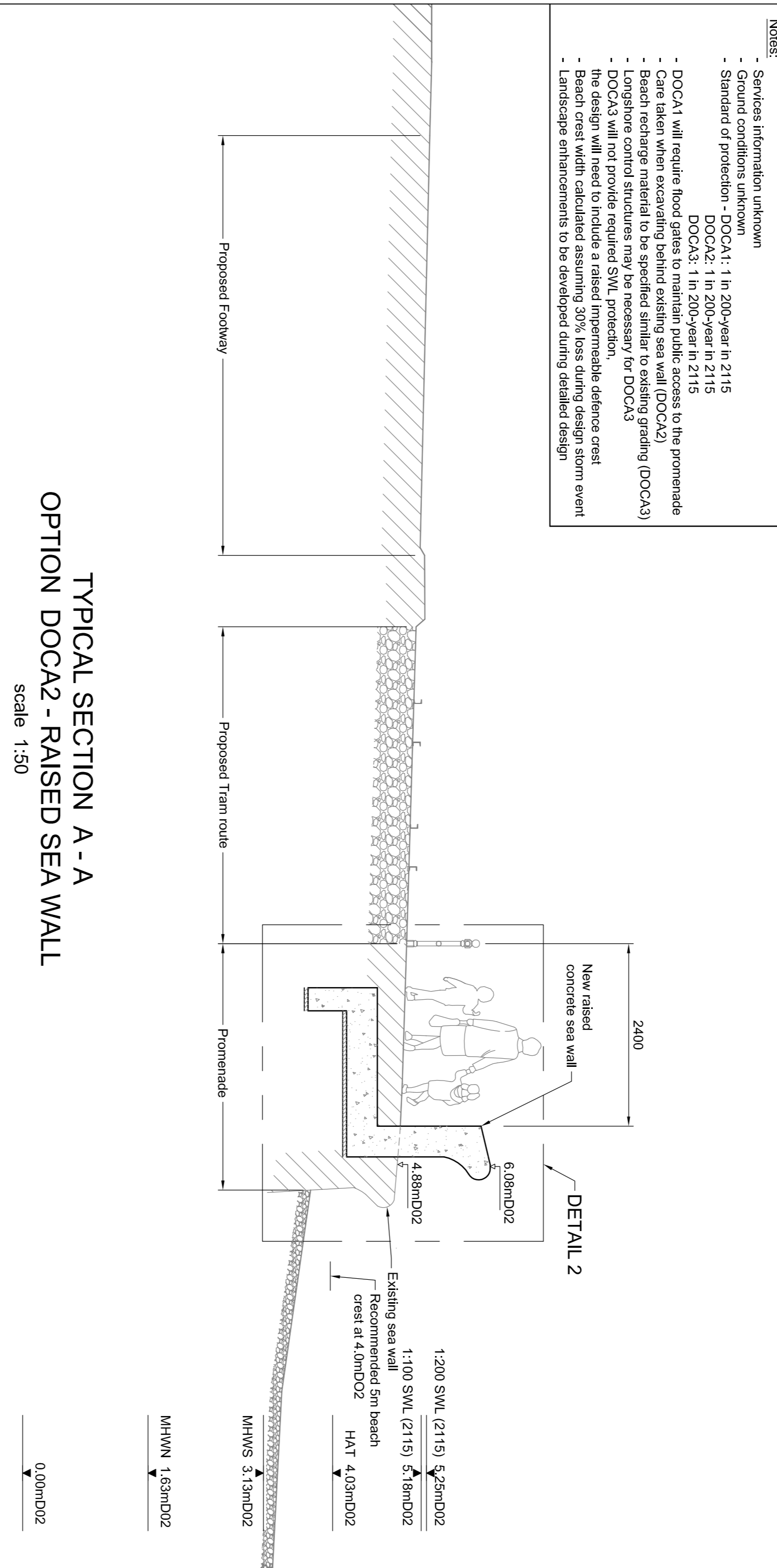


- Notes:**
- Services information unknown
  - Ground conditions unknown
  - Standard of protection - DOCA1: 1 in 200-year in 2115 DOCA2: 1 in 200-year in 2115 DOCA3: 1 in 200-year in 2115
  - DOCA1 will require flood gates to maintain public access to the promenade
  - Gate taken when extending beaching sea wall (DOCA2)
  - Beach sea wall is considered to be a permanent structure (DOCA3)
  - Longshore control structures may be necessary for DOCA3
  - DOCA3 will not provide required SWL protection.
  - The design will need to include a raised impermeable defence crest
  - Beach crest width calculated assuming 30% loss during design storm event
  - Landscape enhancements to be developed during detailed design



**SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION BOX**

**General Notes**

- All dimensions shown are in millimetres unless otherwise stated and levels are in metres to Douglas02 Datum.
- Do not scale from this drawing. All dimensions must be checked/verified on site.
- Drawing to be read in conjunction with IOM-JBA-DC-DR-C-01
- All works affecting flood defences, main watercourses and/or ordinary watercourses will be subject to Consent for Permanent and Temporary Works under the Land Drainage Act 1991. Known services shown on drawings are appropriate and for guidance only. The Contractor will confirm the location of any services prior to the commencement of any works.
- The electronic model of this drawing is not to be used for setting out.

Construction Risks	Environmental Risks
<ul style="list-style-type: none"> <li>Restricted access and egress through streets around Douglas environment</li> <li>Working at height</li> <li>Unknown ground conditions</li> <li>Unknown condition and structural capacity of existing sea wall</li> <li>Services information currently unknown</li> </ul>	<ul style="list-style-type: none"> <li>Increased turbidity and sedimentation in dredge and disposal sites</li> <li>Pollution hazards associated with working near the sea</li> <li>Risk of damage to flora and fauna</li> </ul>

Rev.	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved

Rev.	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved
Rev.:	Date	Drawn	Designed	Checked	Approved

Purpose of Issue	Status
A - Approved	Approved
B - Approved with Revisions	Approved
C - Do Not Use	Concept

**JBA CONSULTING**

Abeydeen House  
 32A-34A, Road  
 South of Douglas  
 West Sussex  
 RH16 4NG  
 United Kingdom

www.jbaconsulting.com  
 1 44 (0)1444 473652  
 1 44 (0)1444 862772  
 info@jbaconsulting.com

Offices at: Central: Glasgow; Edinburgh; Haywards Heath; Leeds; London; Newcastle upon Tyne; Newport; Swansea; Stirling; Aberdeen; Inverness; Perth; York; Birmingham; London; Manchester; Liverpool; Glasgow

**ISLE OF MAN GOVERNMENT - SEA DEFENCE OPTIONS**

**DOUGLAS OPEN COAST A SECTIONS**

\_\_\_\_\_ for \_\_\_\_\_

**ISLE OF MAN GOVERNMENT DEPARTMENT OF INFRASTRUCTURE**

Scale: \_\_\_\_\_

As shown @ A1

Digital File Name: 2014s1358

Drawing Number: IOM-JBA-DC-DR-C-02

Drawn:	M. J. Skirmer	20/10/14
Designed:	A. Dane	10/10/14
Checked:	G. Kern	28/11/14
Approved:	G. Kern	27/11/14

Revision