

Figure 1  
NTS

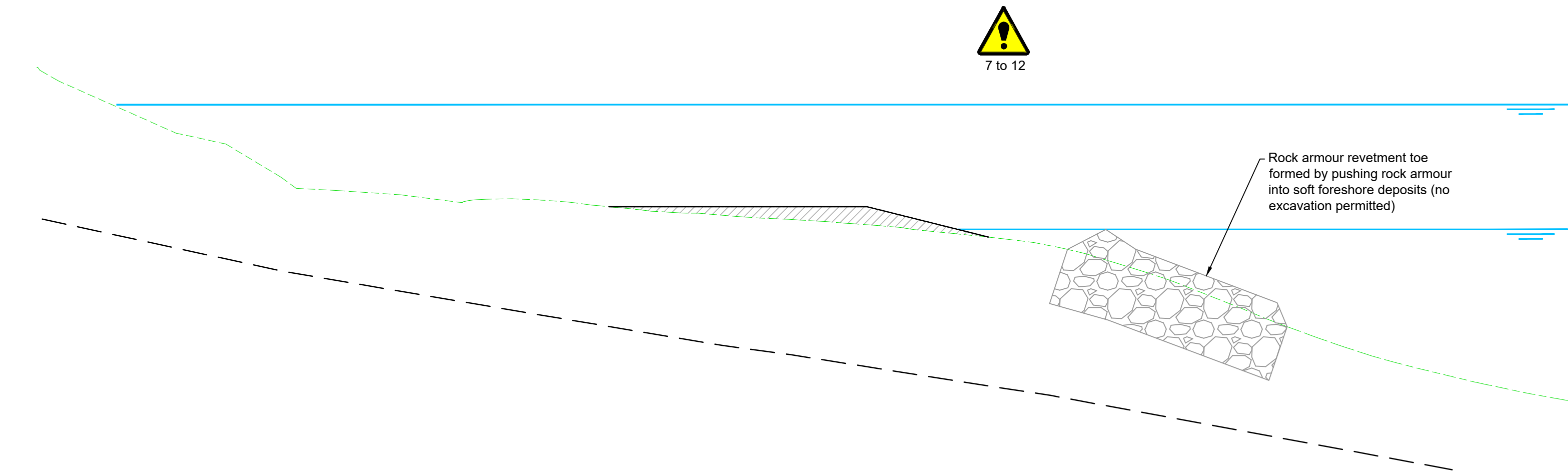


Figure 2  
NTS

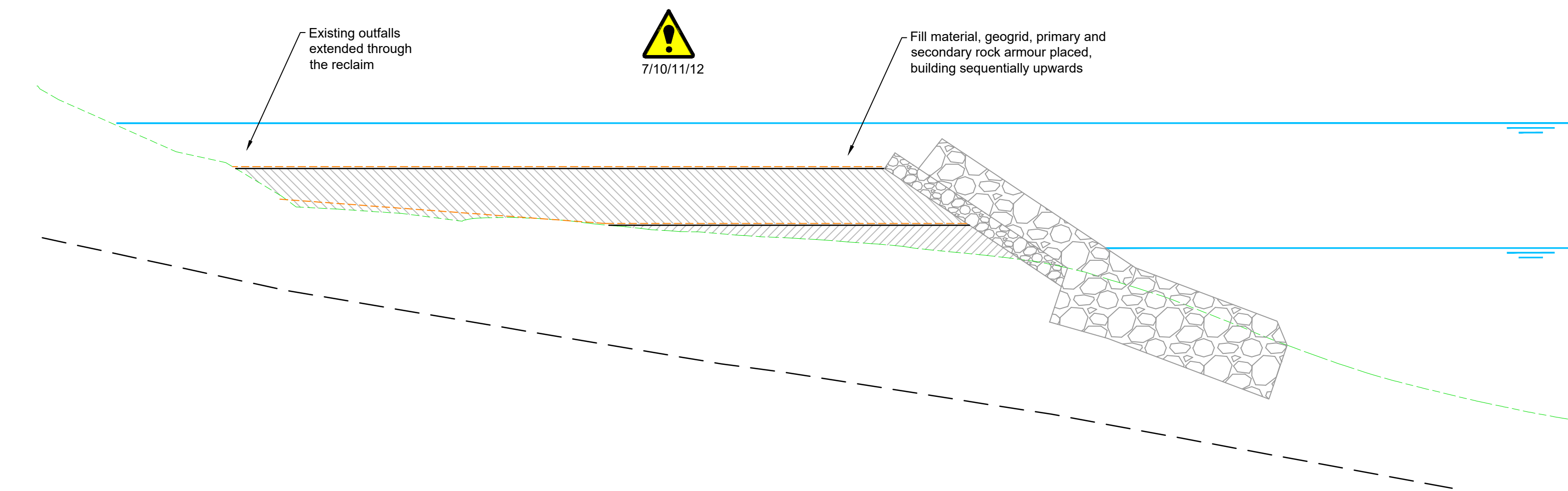


Figure 3  
NTS

## ANTICIPATED LAND RECLAIM CONSTRUCTION SEQUENCE

### STAGE 1:

- Demolition of upper part of existing revetment armour / concrete retaining wall. Existing rock armour to be assessed to determine if suitable for reincorporation into the works.
- Removal of existing seabed and foreshore deleterious or organic material.

### STAGE 2:

- Contractor to construct working platform for plant to access revetment toe - refer Figure 1 where this has been indicatively shown. Location, level and width of working platform shall be Contractors temporary works.
- Construct revetment toe, rock to be placed/pushed into soft foreshore deposits, no excavation permitted - refer Figure 2. Volume of rock placed to be monitored and level of toe surveyed.
- Remainder of fill material placed to build out reclaim. Primary and secondary rock armour placed up to level of reclaim.
- Geogrid installed and anchored into position.
- Sequential placement of fill, secondary armour, primary armour and geogrid to form reclaim - refer Figure 3. Fill material to be faced with secondary and primary armour after placement to minimise washout of fine material.
- Outfalls extended through reclaim.

### STAGE 3:

- Fill material placed to top of subbase level.
- Settlement monitoring across land reclamation to record the actual settlement to compare against predicted settlement. Settlement must be substantially complete before the commencement of surface construction or services installation.

### STAGE 4:

- Drainage and service duct installation.
- Kerb and pedestal plinths installed.
- Surfacing and white lining.
- Electrical, lighting and water service / pedestal installation testing and commissioning.


The above sequence presumes reclamation using land based plan, however this may equally be undertaken using marine based plant.

Refer to drawing 107065-MMD-01-XX-DR-C-0176 for assumed construction sequence for slipway.







The following provisional items may be part of Stage 4:

- Landscaping works (provisional item).
- Procurement, installation, testing and commissioning of washdown water treatment unit.

### SAFETY, HEALTH AND ENVIRONMENTAL INFORMATION

 It is a requirement that only experienced and competent contractors carry out the work described, using a recognised safe method of working. The following are specific significant residual risks identified by the designer and are additional to those hazards/risks normally associated with this type of work.

#### CONSTRUCTION:

Hazard Ref.	Activity/material/ process/element	Key	Hazard Description
7	Construction	 7	Work exposing workers to the risk of drowning
8	Construction	 8	Works undertaken by divers having a system of air supply
9	Construction	 9	Heavy prefabricated components: Work involving the assembly or dismantling of heavy prefabricated components.
10	Construction	 10	Deleterious material falling into water.
11	Construction	 11	Variable / poorer than anticipated ground conditions
12	Construction	 12	Lifting hazards associated with the delivery, laydown, and installation of construction materials

#### OPERATIONS:

Refer drawing 107065-MMD-01-XX-DR-C-0160


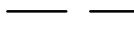

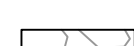


#### MAINTENANCE:

Refer drawing 107065-MMD-01-XX-DR-C-0160

#### Notes

- This drawing shall be read in conjunction with all parts of the Works Information.
- Works shall be executed in accordance with the Specification and as set out in the Works Information.
- The Contractor shall verify all dimensions, elevations, coordinates, and site conditions prior to execution. The Project Manager shall be notified immediately of any discrepancies encountered during execution.
- All dimensions are in millimetres (mm) unless noted otherwise.
- Levels are in metres relative to Chart Datum (CD) unless otherwise noted.
- The drawing shall not be scaled. FOLLOW WRITTEN DIMENSIONS ONLY.
- Details of existing structures and services have been taken from available record drawings and may not be complete in every detail. Details to be confirmed by the Contractor.
- Dimensions marked with an asterisk (\*) shall be confirmed on site by the Contractor.
- Access for harbour operations shall be maintained at all times. Harbour operations shall not be disrupted by the Contractor.
- The Contractor is responsible for the temporary and permanent stability of the Works and adjacent structures during construction and shall implement necessary supports, monitor regularly, and address stability issues immediately.
- Refer to the Site Information for tidal conditions and levels anticipated at Tarbert. The Contractor shall be responsible for determining the tidal conditions affecting the works and planning their works accordingly. Actual water levels can vary substantially due to meteorological conditions and other effects.
- The Contractor shall be responsible for maintaining the seabed free of debris and obstructions within the working areas.

#### Key to symbols

-  Existing Ground Level
-  Cojectured Rockhead Level
-  Geogrid
-  Water Level
-  Primary Rock Armour (HMA 300/1000)
-  Secondary Rock Armour (LMA 15/300)

#### Reference drawings

107065-MMD-01-XX-DR-C-0150 Series  
107065-MMD-01-XX-DR-C-0160 Series  
107065-MMD-01-XX-DR-C-0170 Series  
107065-MMD-01-XX-DR-M-0180 Series

Site Location Drawings  
General Arrangement & Sections  
Slipway Structure  
Mechanical, Electrical & Lighting

General Arrangement Drawings:  
107065-MMD-01-XX-DR-C-0160  
107065-MMD-01-XX-DR-C-0161  
107065-MMD-01-XX-DR-C-0162  
107065-MMD-01-XX-DR-C-0163  
107065-MMD-01-XX-DR-C-0164  
107065-MMD-01-XX-DR-C-0165  
107065-MMD-01-XX-DR-C-0166

General Arrangement  
Downtakings and Demolitions  
Sections (Sheet 1 of 3)  
Sections (Sheet 2 of 3)  
Sections (Sheet 3 of 3)  
Standard Details  
Construction Sequence

Topographic & Bathymetric Survey:  
A9639\_Composite\_CD Aspect Survey  
Survey Date 15.07.2025

0	29/09/2025	LM	For Tender	DB	MR
Rev	Date	Drawn	Description	Ch'k'd	App'd



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Harbour Office  
Garval Road  
Tarbert  
PA29 6TR



Title

Tarbert Harbour Regeneration  
Access Slipway and Car Park  
Land Reclamation  
Assumed Construction Sequence

Designed	D Brunner	DB	Eng check	A Currie	AC
Drawn	L Marini	LM	Coordination	D Brunner	DB
Dwg check	D Brunner	DB	Approved	M Ross	MR
Scale at A1	Status	Rev	Security		
NTS	TEN	0	STD		

Drawing Number

107065-MMD-01-XX-DR-C-0166