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|  | Health & Safety - Designer's Hazard Record | |
| | Project Title Isles of Scilly Flood Defence and Dune Management Project – Porth Mellon | Project Code UA008878-ARC-XX-XX- HS-CE-0362-P2 |

Assessment Coverage:

The works involve the design and installation of a revetment in the south west corner of Porth Mellon beach. At the northern end of the beach an existing retaining wall shall be repaired and repointed. An existing path across the dune, located just to the north of the boathouses will be formalised as part of the works.

1. Scope of Commission and Coverage of Assessment:

This part of the scheme comprises the following elements:

1. Installation of a rock armour revetment in the south west corner of the beach.
2. Repairs and repointing of the existing retaining seawall at the northern end of the beach.
3. Installation of an elevated timber/recycled plastic boardwalk to access the beach from the lane adjacent to the boatsheds.

2. Brief Description of the Works:

1. A walkover of the site and visual inspection of the existing conditions along the beach.
2. Design of a rock revetment located in the southern corner of the beach.
3. Specification of a flexible pedestrian walkway to access the beach from the road adjacent to the boat sheds.

3. Key Risk Reduction measures taken during design process:

1. Toe of revetment has been designed to be buried relative to beach levels recorded during topographic survey dated February 2017. This is to reduce the likelihood of the public climbing over the revetment and to minimise the beach take.
2. Location of BT cable and telegraph pole located in the bank between the proposed revetment and Telegraph Road. Contractor to assess whether revetment can be constructed without risk of damage to the pole and disruption to the service.
3. Warning symbols used on the drawings to highlight the hazards.

4. Significant Project Specific Hazards Remaining:

- A. Works adjacent to water – Risk of sea inundating works area from wave action and high tides.
- B. Soft & unstable ground – Risk of machine instability on beach/dunes.
- C. Deep excavations - Excavations are to be made to depths to 0.5m ODN which may lead to deep excavations dependant on the current beach profile. Risk of collapse during rising tide levels.
- D. Public beach – Risk of public entering the works area.
- E. Services – There is an abandoned sewer running from the former secondary school to the cliff face adjacent to the revetment. – This was not located on a site walkover and is not thought to be live. Non-recorded services may exist on the works area.
- F. Trimming of geotextile between the cliff/bank face and the rock revetment – Contractors are to ensure rocks are not liable to move during this operation to prevent entrapment.
- G. Rocks forming the revetment may be unstable when initially placed – Rocks should be placed by a machine and their stability ensured before operative's approach workings.

5. Specific Construction Requirements

6. Means by which significant hazards are conveyed to contractors and others:

- 1. Hazard markers added to drawings


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| Date of Review | |
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Assessed by:

Name Maxwell Needham Signature _____ Date 18/09/2017

Reviewed by:

Name Ian Cooke Signature _____ Date 18/09/2017

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| | Project Title: Isles of Scilly Flood Defence and Dune Management Project – Porth Mellon | Assessor (Name): Maxwell Needham | Assessor (Signature): | Date: 18/09/17 | Revision: P2 |

| Ref | Activity & Hazard | Level of Risk (optional) | Design Input to Eliminate or Reduce Hazards, and Hazards Remaining | Residual Hazard? |
|-----|---|--------------------------|---|------------------|
| A | Works undertaken in or near water- Risk of sea inundating works area from wave action and high tides. | | This hazard is an unavoidable consequence of the works and the contractor is to mitigate the associated risks | Yes |
| B | Soft & unstable ground-The backshore dune is formed of sand and is susceptible to erosion from machine or foot traffic. Risk of machine instability on beach/dunes. | | This hazard is an unavoidable consequence of the works and the contractor is to mitigate the associated risks | Yes |
| C | Deep excavations - Excavations are to be made to depths to 0.5m ODN which may lead to deep excavations dependant on the current beach profile. Risk of collapse during rising tide levels. | | This hazard is an unavoidable consequence of the works and the contractor is to mitigate the associated risks | Yes |
| D | Working on public beach- Risk of public entering the works area. | | This hazard is an unavoidable consequence of the works and the contractor is to mitigate the associated risks | Yes |
| E | Services- There is an abandoned sewer running from the former secondary school to the cliff face adjacent to the revetment. – This was not located on a site walkover and is not thought to be live. Non-recorded services may exist on the works area. | | This hazard is an unavoidable consequence of the works and the contractor is to mitigate the associated risks | Yes |
| F | Trimming of Geotextile- Trimming of geotextile between the cliff/bank face and the rock revetment – Contractors are to ensure rocks are not liable to move during this operation to prevent entrapment. | | This hazard is an unavoidable consequence of the works and the contractor is to mitigate the associated risks | Yes |
| G | Unstable Rock units- Rocks forming the revetment may be unstable when initially placed – Rocks should be placed by a machine and their stability ensured before operative's approach workings. | | This hazard is an unavoidable consequence of the works and the contractor is to mitigate the associated risks | Yes |