# **NEC3** engineering and construction contract (ECC) Works Information

## **Project / Contract information**

| Project Name       | Isles of Scilly Dune & Flood Defence Scheme- Porth Mellon |
|--------------------|---|
| Project Reference  | Adaptive Scilly   |
| Contract Reference | CloS to advise  |
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| Revision date | Summary of changes | Version number |
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Part 2: Non-returnable
Documents
NEC - ECC 3<sup>rd</sup> Ed.

Section 8
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#### **Definitions List**

| Term   | Description   |  |
|--------|---|--|
| CESWI  | Civil Engineering Specification for the Water Industry, 7th Edition |  |
| EA MTR | Environment Agency Minimum Technical Requirements                   |  |
| SHW    | Specification for Highway Works                                     |  |

### **Preamble**

This Works Information describe and specify the *works*. For details of the technical standards and the list of drawings used see **WI 2000**, *Employer's* work specification.

#### WI 100 Description of the works

#### WI 101 Project objectives

1. The project objectives are:

To reduce the vulnerability of Telegraph Road from undermining and increase resilience of key infrastructure to coastal flooding. This will principally be achieved by the construction of a rock revetment to dissipate wave forces and to reduce overtopping. The revetment will also afford increase protection to the Industrial Estate, Recycling Centre, Substation and the Lower Moors SSS located behind the beach by reducing overtopping flows from this section of the beach. Pedestrian access across the dunes will be formalised by installation of a 'sand ladder' walkway in one dune gap, as 'Beach Access'.

#### WI 102 Rock Armour Revetment

- 1. The rocks used in the construction of the revetment shall be handled and placed in accordance with the requirements of the Revetment Specification. See Appendix B: UA008878-ARC-XX-XX-SP-CE-0832.
- Setting Out Points (SoP) correspond to the rear of the crest and the intersection between the revetment face and the toe. See drawing UA008878-ARC-XX-XX-DR-CE-0302-P2 for details.
- 3. The revetment shall be underlain with a geotextile, ensuring it meets the properties stated in the Rock Specification (see Appendix B).
- 4. Where the geotextile is wrapped around the foremost rock of the toe, it shall be lapped back by a minimum of 2000mm and trapped in place by the rocks which form the toe.
- 5. The crest & toe top level width shall be 3 x D<sub>n50</sub> (median nominal rock diameter) or 3000mm whichever is greater.
- 6. The revetment armour layer thickness, including the crest and toe, shall be a minimum of 2000mm.
- 7. Revetment slope grade shall vary and smoothly transition along its length from 1 in 3 at the at the extremities of the roundheads to 1 in 1:5 at its centre.

#### WI 103 Roundheads

- 1. The eastern roundhead shall butt up against the existing sand dune with the top toe level being 2.5mAOD and the top crest level being 6.19mAOD.
- 2. The cliff face shall be cleared of vegetation to the profile of the western revetment roundhead to allow it to tie into the cliff face without obstruction.
- 3. The western revetment roundhead toe layer thickness & alignment may be dictated by site conditions. If two layers of  $D_{N50}$  rock cannot be achieved due to the level of the rock bed, then a single layer of  $D_{N90}$  rocks may be substituted. If this is deemed necessary, then the type of toe detail, its extents, and rock selection shall be discussed with the *Supervisor* before the works commence.

#### WI 104 Beach Access Walkway

- The existing informal walkway through the dunes located to the west of the boatyard will be trimmed to a width of 1.2 m then covered by a sand ladder constructed and installed as specified in UA008878-ARC-XX-XX-DR-CE-0322-P2. [NB – the example of a sand ladder product given in the drawing is a Hahn Kunststoffe 'Roll-out Element' footpath plank.]
- **2.** The existing cross-sectional profile of the dune shall not be altered by installation of the sand ladder.

#### WI 200 General constraints on how the Contractor provides the works

#### WI 201 General constraints

- 1. The *Contractor* shall comply with the following constraints in addition to those identified in the CESWI & EA Minimum Technical Requirements.
- 2. The *Contractor* shall comply with the constraints and measures identified in the Construction Environment Management Plan (CEMP)

#### WI 202 Site Access

- 1. Access to site is via a slipway into the beach from Telegraph Road.
- If construction materials are to be transported to site via landing craft, the landing craft must deliver those materials to the beach area on the rocky shore and shingle shore, where possible (see pg. 119 of EIA) and at the southern end of the beach to avoid prehistoric field systems (see pg. 178 of EIA)

#### WI 203 Working Area

- 1. The *Contractor's* working area and compound is indicated on drawing UA008878-ARC-XX-XX-DR-CE-0300-P3.
- 2. If the Contractor wishes to modify these areas, he shall obtain written permission from the *Project Manager*.

#### WI 204 Parking

 The Contractor shall provide adequate parking for site-based personnel and visitors within the compound area. No parking is allowed outside of this area, unless permission is obtained from the Project Manager.

#### WI 205 Working Hours

1. No additional constraints to 1.27 EA MTR, in terms of local limits on working hours.

#### WI 206 Operational constraints

- 1. Sections of the work along the foreshore are at risk of being cut off by the incoming tide and are exposed to wave action. The contractor will be required to plan works around tide times and to monitor weather forecasts/conditions to make sure that the risk to staff and machinery is kept to a minimum managed in accordance with the latest H&S legislation.
- 2. Telegraph Road shall remain open to vehicular traffic for the duration of the contact. See WI 219
- 3. Several commercial properties are located on the beach and behind the beach at Porth Mellon Business Park. Consideration shall be given to methods of working to reduce any adverse impacts on their operation e.g. noise, dust, plant movements etc.

#### WI 208 Existing services

1. All known services information is included within the Site Information. Prior to carrying out the works the *Contractor* is to independently verify the location of all known services, and

- actively search for any previously unidentified services prior to carrying out any intrusive ground works.
- 2. The *Contractor* shall undertake all discussions with Utility Companies to gain the required permissions for the works on or around services.

#### WI 209 Ground conditions

1. A ground investigation was undertaken on the 17<sup>th</sup> May 2017 to determine the level of the periglacial clay deposits, colloquially known as Ram, which underlie the beach material. See Site Information: UA008878-ARC-XX-XX-DR-CE-0301-P1, for trial pit locations and TRIAL PIT SUMMARY - Porth Mellon for trial pit logs.

#### WI 210 Permanent Access

- 1. A footpath is illustrated on the 1:25,000 O.S. map behind the existing dune, adjacent to the compound, at the rear of the beach where the unnamed lane joins Telegraph Road. Access to the footpath shall remain unhindered by the works at all times.
- 2. Signs shall be placed at each end of the footpath where it is adjacent to the works, to advise the public when work is being undertaken

#### WI 211 Storage of fuel and chemicals

1. No additional constraints to those identified in the MTR

#### WI 212 Pollution, ecological and environmental impacts

- 1. Debris burning shall not be permitted under any circumstances.
- 2. Works shall follow best practice guidance for pollution control. All materials, including machinery, shall be securely stored in the site compound when not in use. Staff shall be appropriately trained on how to use spill kits correctly. Small plant (including generators) shall be placed within drip-trays or plant nappies.
- 3. Detailed construction method statements will be prepared following Institute of Air Quality Management (IAQM) guidelines on dust management for medium risk-sites.
- 4. Out of hours works will be avoided wherever reasonably practicable.
- 5. Noise impacts will be minimised by adherence to measures described in BS 5228, to reduce noise impacts from construction by 5dB to 15dB.
- 6. Detailed construction method statements will be prepared following Institute of Lighting Practitioners guidance.
- 7. Waste that is recyclable will be sorted within the construction compound, placed into the relevant storage disposal container, and then removed from site for disposal at an appropriate recycling facility.
- 8. All potentially contaminated material will be subject to Waste Acceptance Criteria testing.
- 9. Any excavated clay that cannot be reused would be bulked on site and disposed of at an appropriately licenced waste management facility.
- 10. All residual waste material will be removed from site and disposed of at an appropriately licenced waste management facility.
- 11. Detailed construction method statements will be prepared following CIRIA guidance to include:
  - a. Site storage of fuel and any chemicals on site will be above Mean High Water Spring and away from high-risk locations.

- b. All chemicals of a hazardous nature will be stored in bunded, locked containers in surfaced areas (bund to contain 110% of the capacity of the liquid stored).
- c. Plant, equipment and vehicle refuelling will only be permitted at designated refuelling areas.
- d. Refuelling and bulk deliveries will be supervised.
- e. Emergency spill kits will be available at all times and operatives should be trained in their use. Any spillages would be contained and reported.
- f. Drip trays will be used to prevent oil leaking from machinery when parked or stored and during refuelling.

#### WI 213 Archaeological requirements

- 1. An archaeological Watching Brief shall be maintained during delivery of construction materials to monitor the potential for any impacts on buried remains in the inter-tidal area.
- 2. This will be organised through the CloS Project Director, but no construction material can be delivered to site unless this Watching Brief is in place.

#### WI 214 Confidentiality

- 1. The *Contractor* shall not disclose information regarding the works to third parties without the acceptance of the *Project Manager*.
- 2. All contact from third parties will be forwarded to the *Project Manager*.
- 3. The Contractor may publicise the services only with the Employer's written permission.

#### WI 215 Security and protection on the site

- 1. The *Contractor* is responsible for the security of the site and for vehicles and pedestrians entering and leaving the site.
- 2. Security measures shall include ensuring that the *Contractor's* personnel are easily identifiable.

#### WI 216 Protection of existing structures and services

1. An existing stone wall adjacent to the slipway and marked on the plan shall be retained.

#### WI 217 Protection of the works

1. See Appendix B for details on how the how the revetment works should be protected during construction.

#### WI 218 Cleanliness of the roads

1. No additional constraints to those identified in the MTR.

#### WI 219 Traffic Management

- 1. The *Contractor* is responsible for traffic safety and management including obtaining all approvals, e.g. road closures and openings. Before any work in, or affecting the use of, any highway or road is commenced, the *Contractor's* proposed method of working, including any special traffic requirements, is agreed with and confirmed in writing to, the *Project Manager*, and all relevant authorities.
- 2. The *Contractor* shall produce a Traffic Management Plan to be submitted to the *Project Manager* prior to construction of the works.
- 3. The Traffic Management Plan is to include, but is not limited to, the following:

- Access routes to be taken by heavy vehicles, noting any height or weight restrictions
- Details for keeping roads clear of dust and mud
- Timings for heavy load movements
- Vehicular routing
- Parking restrictions for construction vehicles on the public highway surrounding the site
- · Pedestrian walkways around the site
- Storage areas
- Timetable for removal of site compound equipment
- Plant movements between the compound and the working area are along a short section
  of the public highway. A Traffic Management Plan shall minimise the impact on the public
  road and to the commercial activities at Porth Mellon Business Park located behind the
  beach
- 4. The Contractor co-operates with the relevant authorities concerning works in, or access to, the highway. The Contractor informs the Project Manager of any requirements or arrangements made with the relevant authorities.
- 5. The *Contractor* shall be responsible for liaising with the public regarding road closures and regular movements on the highway.

#### WI 220 Condition survey

- 1. At least two weeks prior to taking possession of the Site, the *Contractor* shall undertake condition surveys in accordance with the *Employer's* Minimal Technical Requirements.
- 2. The *Contractor* shall make a note of any existing damage and bring this to the attention of the *Project Manager*.
- The Contractor shall repeat the condition survey on completion of the works in accordance with the Employers Minimum Technical Requirements and provide a copy to the Project Manager.
- 4. Photographs, surveys and inventories must be date stamped, NRG referenced, and copies held by the *Contractor*. The *Contractor* shall provide these to the *Project Manager* and the *Supervisor*.
- 5. The *Contractor* shall undertake condition surveys with the *Supervisor*, and any others invited by the *Contractor*, *Project Manager* or *Supervisor*. The *Contractor*, *Project Manager* and *Supervisor* notify each other in advance if any others are invited.
- 6. The *Contractor* is to give at least one weeks' notice to the *Project Manager* and *Supervisor* prior to undertaking any condition survey.
- 7. All record photographs and videos shall comply with the requirements of the Minimum Technical Requirements.

#### WI 221 Consideration of Others

1. No additional constraints to those identified in the MTR.

#### WI 222 Control of site personnel

- 1. The *Contractor* shall ensure that all persons working on or visiting the Site hold a valid and current Construction Skills Certification Scheme (CSCS) card. A member of the site team shall escort persons without this card at all times.
- The Contractor will maintain a visitors' book recording the date, the time in, the time out, evidence of a specific Health and Safety induction, CSCS number, and the name and company of the person visiting.

#### WI 223 Site cleanliness

1. No additional constraints to those identified in the MTR.

#### WI 224 Waste materials

- Any construction related materials shall be disposed of away from site without any contamination of the waterways or surrounding land. Disposal must be in accordance with a Site Waste Management Plan (SWMP) produced by the *Contractor* and by a licensed waste
- 2. The *Contractor* shall determine volumes of waste to be disposed of offsite and apply for the appropriate licences
- 3. The SWMP shall be submitted to the Project Manager for acceptance prior to works on site commencing.

#### WI 225 Deleterious and hazardous materials

2. No additional constraints to those identified in the MTR.

#### WI 226 Consents & Licencing

1. A Marine Management Organisation (MMO) Licence is required for the proposed works. Work is not to commence on site prior to the MMO licence being in place. See **WI 1002**.

#### WI 227 Excavating Material

- 1. Excavated material is to be placed in an area agreed with the *Project Manager*.
- 2. The *Contractor* is responsible for removing any excavated material from the site which cannot be redistributed within the working area.
- 3. The *Contractor* is responsible for all, permits, permissions and costs associated with removal and disposal of surplus material.

#### WI 228 Reinstatement

1. Any vegetation removed from the existing bank at the rear of the revetment, shall be replanted with marram grass to ensure bare patches of sandy soil are vegetated.

#### WI 300 Contractor's design

#### WI 301 Design responsibility

1. The Contractor is not required to design any elements of the scheme.

#### WI 400 Completion

#### WI 401 Completion definition

- 1. The following are absolute requirement for Completion to be certified, without these items, the *Employer* is unable to use the works:
  - The whole of the works has been completed in accordance with the Works Information.
  - There are no Defects that prevent safe access and operation by the Employer.
  - There are no Defects that present a health and safety hazard to the public or landowners.
  - 1 paper copy and 1 digital copy of the final Health and Safety File shall be provided.

#### WI 402 Access to information following Completion

- 1. The *Contractor* shall provide all information relevant to the works to the *Project Manager* following completion. The *Contractor* shall retain copies of all information for inspection by the *Project Manager* for the duration of the contract liability period.
- 2. The *Contractor* shall retain a copy of all design records, software code, supplier's details and other relevant information for a period of at least 12 years following Completion and shall make these available to the *Employer* on request.

#### WI 403 Final Clean

1. The *Contractor* shall leave the site in a clean, tidy condition and having removed all Equipment, Plant and Materials.

#### WI 404 Security

1. All existing landowner security arrangements shall be reinstated upon completion unless agreed otherwise. The *Contractor* shall ensure that landowner security is maintained at a similar level to that which currently exists on the site during the implementation of the works.

#### WI 405 Pre-Completion arrangements

- 1. Prior to any works being offered for takeover or Completion the *Contractor* shall arrange a joint inspection with the *Supervisor*, *Project Manager* and the *Employer*.
- 2. The initial inspection shall take place a minimum of three weeks in advance of the planned Completion.

#### WI 500 Programme

#### WI 501 Programme Requirements

 The Contractor shall programme the revetment construction works to make best use of tidal working periods so as to minimise the exposure of underlayers to unfavourable sea conditions.

#### WI 502 Revised Programmes

1. Submission of revised programmes shall be accompanied with a written explanation of the changes.

#### WI 600 Quality Assurance

#### WI 601 Quality Statement

1. The *Contractor* shall submit his quality statement for the works to the *Project Manager* within 4 weeks of the starting date.

#### WI 602 Quality management system

1. The *Contractor's* quality management system shall comply with the requirements of ISO 9001 and ISO 14001.

#### WI 700 Tests and inspections

- 1. At the commencement of the armour stone placement, the *Contractor* shall be required by the *Supervisor* to construct a test section of the structure which shall be used to demonstrate the quality of placing of armour stone for all layers, for approval by the *Supervisor*. See Appendix B, section 4.3 for further details.
- 2. No revetment layer shall be covered by a subsequent layer until the profile of the former layer has been approved by the *Supervisor*. See Appendix B, section 4.5 for further details.
- 3. Upon completion of the works the *Contractor* will undertake a level survey of the revetment for acceptance by the *Supervisor*. See Appendix B, section 4.8 for further details.
- 4. The Contractor shall keep daily photographic records of all works carries out. All structures, pipework, formation levels, construction materials etc buried shall be photographed prior and during burying operations.

#### WI 800 Management of the works

#### WI 801 Project team - Others

1. Refer to Contract Data for details.

#### WI 802 Communications

1. No additional requirements to those stated in the MTR

#### WI 900 Working with the Employer and Others

#### WI 901 Sharing the Working Areas with the *Employer* and Others

- 1. The *Contractor* is required to co-operate with Others in sharing the working areas they need in connection with the works.
- 2. The Marine Management Organisation may arrive at site unannounced to assess whether the *works* are being implemented within the conditions of the granted licence. The *Contractor* shall co-operate with any requests and share the working area.
- 3. Officials from the local planning authority may arrive at site unannounced to assess whether the *works* are being implemented within the conditions of the granted consent. The *Contractor* shall co-operate with any requests and share the working area.

#### WI 1000 Services and other things to be provided

# WI 1001 Services and other things for the use of the *Employer, Project Manager* or *Others*

- 1. The details of services and other things for the use of the *Employer*, *Project Manager* or Others to be provided by the *Contractor* are listed in the Environment Agency Minimum Technical Requirements (1.2)
- 2. The Contractor is responsible for obtaining all temporary service connections required for the duration of the works, including power, water, gas and telecommunications. Where no fixed connection is to be used, the Contractor is responsible for making alternative arrangements. In the case of sewerage for instance, the Contractor is responsible for safely disposing of any waste generated if no connection to a public sewer is available.

#### WI 1002 Services and other things to be provided by the Employer

- 1. The Employer is responsible for the following: -
  - Obtaining permission from the landowner to use the site for the purposes of the works.
     The Contractor should not approach any landowner directly unless authorised to do so by the Employer.
  - Obtaining Marine Management Organisation consent for the works.
  - Obtaining planning permission and any other necessary statutory consents.
  - Giving the *Contractor* access to the site. The *Contractor* must give 5 working days' notice to the *Employer* to gain access to the site during the defects correction period.

#### WI 1100 Health and safety

#### WI 1101 Health and safety requirements

- 1. The *Contractor* shall comply with all applicable legislation for the health, safety and welfare of his people or any other person in or near the Site of the *works*.
- 2. The *Contractor* copies to the *Project Manager* into all correspondence with the *Principal Designer*.
- 3. The *Contractor* shall fulfil the role of *Principal Contractor* under the Construction Design and Management Regulations 2015 for the duration of the works.

#### Toolbox talks

1. The *Contractor* provides regular toolbox talks to site personnel to ensure that health and safety issues, the requirements of the contract and the design and the contents of method statements are communicated throughout the site team.

#### Incident reporting

1. The *Contractor* shall provide a written report within 21 days of the incident, unless otherwise agreed with the *Project Manager*.

#### First Aid

 The Contractor shall provide first aid facilities; Materials and personnel trained in first aid, for the benefit of his own people, those of his Subcontractors and the site staff of the Project Manager, Supervisor and Employer.

#### **Provision of Life Saving Equipment**

1. The majority of the works will be undertaken immediately adjacent to water. Lifesaving equipment will be provided to the satisfaction of the *Project Manager*.

#### WI 1102 Method statements

- The Contractor shall submit Method Statements & Risk Assessments to the Project Manager at least two weeks in advance of carrying out items of work including proposed method of forming the revetment profiles indicated on the drawings.
- 2. The Contractor shall not commence any permanent works until the *Project Manager* has approved in writing the *Contractor's* working methods for forming the works.
- 3. The Contractor provides the works in accordance with the accepted method statement.

#### WI 1103 Legal requirements

- 1. The Principal Contractor duties under the CDM Regulations 2015 shall be undertaken by the *Contractor*.
- 2. The Principal Designer duties under the CDM Regulations 2015 shall be undertaken by the *Employer's* consultant- Arcadis.
- 3. The Client duties under the CDM Regulations 2015 shall be undertaken by the Employer.

#### WI 1104 Inspections

1. The *Contractor* shall provide a competent health and safety officer whilst *works* are being carried out on the Site.

- 2. The *Contractor's* health and safety officer carries out weekly audits of the Site and submits copies of audit reports and proposed remedial actions to the *Supervisor* prior to the end of the following week.
- 3. The *Employer* may carry out site audits. The *Contractor* assists in these audits and complies with any recommendations made during such audits.

#### WI 1200 Subcontracting

1. The *Contractor* is responsible for all the work.

#### WI 1300 Title

1. Not required.

#### WI 1400 Acceptance or procurement produce (Option C, D, E and F)

1. Not required.

#### WI 1500 Accounts and records (Options C, D, E & F)

1. Not required.

#### WI 1600 Parent company guarantee (Option X4)

1. Not required.

#### WI 1700 Performance Bond (Option X13)

1. Not required.

#### WI 1800 Advance payment bond (Option X14)

1. Not required.

#### WI 1900 Low Performance damages (Option X17)

1. Not required.

#### WI 2000 Employer's work specifications and drawings.

#### WI 2100 Employer's work specification

- The Employer's minimum technical requirements are the Civil Engineering Specification for the Water Industry (CESWI), 7th Edition, supplemented by the Environment Agency's Minimum Technical Requirements (EA MTR). See Appendix A.
- 2. The Specification for Highway Works (SHW) standards are applicable where it is referenced in the Works Information.
- 3. The General Specification for the rock revetment is The Rock Manual The Use of Rock in Hydraulic Engineering 2nd Edition (CIRIA C683) 2007. This is supplemented by additional clauses contained within the Particular Rock Revetment Specification. See Appendix B.
- 4. In so far as any information contained within the Works Information may conflict or be inconsistent with any provision of CESWI 7 and/or the EA MTR then the particular information contained within the Works Information shall always prevail.
- 5. CEWSI & EA MTR clauses should be read as those clauses which are applicable to works apply and those that are not relevant should be ignored. E.g. Clause 2.102: Precast Concrete Box Culverts is not applicable as it is not shown on the drawings and not mentioned in the Works Information. Therefore, text relating to those clauses in CEWSI & EA MTR should be ignored. However, if the design is modified during construction to include works for such an item, then the clause should be adhered to.
- 6. The following reports and specifications form a part of the Works Information:
  - Appendix A Employer's Minimum Technical Requirements- (EA MTR)
  - Appendix B Rock Revetment Specification

N.B. It is assumed the *Contractor* will have access to CESWI 7 and other industry standard references made within the Works Information and hence will not be distributed as part of the Contract Documents.

#### WI 2200 Drawings

- 1. The following drawings form a part of the Works Information:
  - UA008878-ARC-XX-XX-DR-CE-0300-P3-PorthMellonSitePlan
  - UA008878-ARC-XX-XX-DR-CE-0302-P2-PorthMellonRevetmentPlan
  - UA008878-ARC-XX-XX-DR-CE-0303-P3-Porth Mellon Services Plan
  - UA008878-ARC-XX-XX-DR-CE-0320-P3-Porth Mellon Revetment Section A
  - UA008878-ARC-XX-XX-DR-CE-0320-P3-Porth Mellon Revetment Section B

# **APPENDIX A**

# EMPLOYER'S MINIMUM TECHNICAL REQUIREMENTS-EA MTR

# APPENDIX B ROCK REVETMENT SPECIFICATION