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Clanderry West Pier
DAFM 2026
Improvement Works
VOLUME A – WORKS REQUIREMENT
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VOLUME A1 –SPECIFICATION

1. General

1.1. Introduction

The works will be performed at Cleanderry Harbour, Co. Cork, Ireland.

Cleanderry West Pier is located approximately 134km west of Cork City.

Cleanderry West Pier facilitates local fishermen, marine leisure and small commercial vessels. Cork County Council is now procuring safety improvement works which include construction of reinforced concrete steps and ramp, provision of handrails, grabrails, raise pier walls and provide new concrete deck, public lighting, toe rails, T bars, mooring rings, new replacement ladder and DAFM signage.

The successful Candidate will be appointed as Project Supervisor Construction Stage (PSCS) for the duration of the works.

1.2. Title

The scheme shall be known as “Cleanderry West Pier DAFM 2026 Improvement Works”.

1.3. Site Location

The site is located at Cleanderry, Ardgroom, Co. Cork. The following information relates to the location of the works:

Irish Grid Coordinates	V 67153 56174
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Google Maps	https://maps.app.goo.gl/tWyFxxCYC6sK8P7a7
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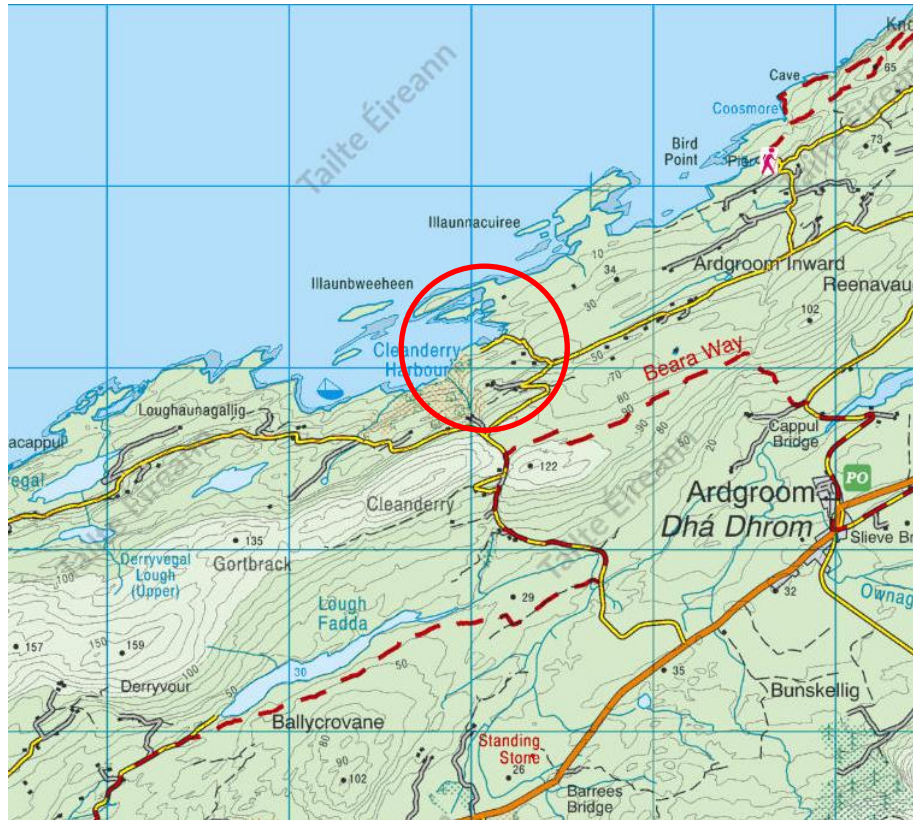


Figure 1.1 – Cleanderry, Ardroom, Co. Cork



Figure 1.2 – Location of Existing Pier



Figure 1.3 – Location of Pier

1.4. Extent of Works

The works to be carried out under this Contract are summarised as follows: -

- Role as Project Supervisor Construction Stage
- New Reinforced Concrete Steps and grab rail
- New Reinforced Concrete ramp between new steps and existing pier
- Raise pier wall and deck and provide new Reinforced Concrete deck on existing pier
- Raise access road to tie into new pier deck levels
- Supply and install new solar light on pier
- Supply and install handrails, toe rails, T bars, mooring rings and replace existing ladder at head of pier
- Provide new reinforced concrete turning area at entrance to pier
- Signage

1.5. Drawings (Volume A2 –Works Requirement)

The following drawings (Volume A2 – Works Requirement) shall be read in conjunction with the Specification (Volume A1 – Works Requirement) and shall be considered to be part of the Contract:

Drawing No.	Drawing Title
WC-26-017-00	Site Location – Discovery Map
WC-26-017-00(A)	Site Location – Vector Map
WC-26-017-01	Site Overview – Pier and Turning Area Plan Layout
WC-26-017-02	Pier Plan Layout - Overview
WC-26-017-03	Pier Plan Layout – Section A-A
WC-26-017-04	Turning Area Plan Layout
WC-26-017-05	Turning Area Layout – Section B-B
WC-26-017-06	Toe Rail Detail
WC-26-017-07	T Bar and Mooring Ring Detail
WC-26-017-08	Ladder Detail
WC-26-017-09	DAFM Signage

1.6. Discrepancies and Conditions of Contract

If it is discovered that there is any discrepancy between the Specification (Volume A1 – Works Requirements) and the Drawings (Volume A2 – Works Requirements) then the Specification (Volume A1 – Works Requirements) takes precedence.

The Conditions of Contract shall be the Public Works Short Form of Contract (*PW-CF6-v1.15 25-11-2025*) as included in Volume B (Form of Tender and Conditions of Contract).

1.7. Metric Units

This contract has been prepared throughout in metric units. If any conflict arises with imperial units, the following conversion factors shall be used: -

1 m = 3.281 ft.

1 kg = 2.2 lbs.

1.8. Time for Completion

The time for completion of the contract is stated in Tender & Schedule under Clause 1.1 in Volume B, Tender & Schedule. The Contractor shall also factor in time to his work programme for difficulties associated with traffic management, lead time for handrails, grab rails, solar light, pier furniture, etc., site restrictions, phasing of works, restricted working hours, working in the intertidal zone, ground conditions and groundwater control.

Works other than monitoring or emergency work necessitated for the safety of the works, shall not be executed outside normal working hours.

Normal working hours are defined in this instance as 08.00 to 19.00 hours, Monday to Friday and 09.00 to 16.30 hours on Saturday.

The contractor shall seek the written permission of the Employer's Representative for out of hours shift work. Such permission must be sought by the Contractor at least 7 days before his proposed commencement date for out of hours working. The Contractor shall not commence out of hours working without the written permission of the Employer's Representative, which permission may be withdrawn at any time. The same proviso shall apply for night and Sunday work. In cases where overtime and shift work are approved, the carting of spoil and deliveries of materials to the works shall be prohibited outside normal working hours.

1.9. Programme

A preliminary programme of Work must be submitted if requested by the Employer's Representative during the tender evaluation period in accordance with the Instructions to Tenderers. This programme shall show by means of a bar chart, when each section of the works is to be carried out.

Before the Starting Date, the Contractor shall submit to the Employer's Representative a detailed programme in accordance with the Public Works Short Form of Contract.

Details of resources to be used in the Contract shall also be provided. The Contractor shall name the personnel that will be responsible for the contract and shall ensure that this named person remains on site full time during the works. These will not be changed without the approval of the Employer's Representative. The Contractor shall propose a full list of plant. In the case of each item of plant, the age from new shall be given.

1.10. Project Supervisor (Construction Stage)

The Contractor shall be appointed Project Supervisor (Construction Stage) in accordance with the provisions of the Safety, Health and Welfare at Work Act 2005 and the Safety, Health and Welfare at Work (Construction Regulations) SI 291 of 2013, for the construction stage of this contract. This appointment covers all construction works on the project including specialist works carried out as part of this Contract.

The Contractor shall ensure that the cost of this duty is covered in the sum allowed in the Schedule of Rates (Volume C – Pricing Document). In order to facilitate the proper co-ordination of the Project Supervisor Design Process on this contract, the Contractor shall advise the Employer's Representative of all temporary works designers engaged by him and their respective scope of works at the Starting Date. In the case where such appointments are not in place at the commencement of the Contract he shall furnish the above details to the Employer's Representative within fourteen (14) days of their engagement. At all monthly meetings and other times considered appropriate by the Project Supervisor for the Design Process the Contractor shall report on matters relating to temporary works

design. The Contractor shall provide Design Certificates in accordance with HSA Form RF2, for all Temporary Works in advance of construction as set out in the Works Requirement.

The Contractor shall ensure that all relevant information necessary for the completion of the Safety File is provided to the Project Supervisor for the Design Process in a timely manner as advised during the course of the Contract. All documentation/queries to the Employer's Representative under this heading shall be so identified for reference by him to the Project Supervisor for the Design Process as appropriate. Details of the safety file are provided in the Preliminary Safety and Health Plan.

1.11. Returns of Labour

The Contractor shall, at the start of each week, deliver to the Employer's Representative, a fully detailed schedule of all things and personnel used in the works for the previous week. This schedule shall be sufficiently detailed to enable the Employer's Representative to determine the use of labour and plant in the contract.

The Contractor shall also, at the start of each week, deliver to the Employer's Representative the fully detailed time sheets for the previous week. These time sheets shall include the name of each operative, skilled or unskilled status, and the normal and overtime hours worked.

1.12. Delivery of Materials

When requested, the Contractor shall submit certified quotations for all materials which are required. Subject to approval of the provided quotations, materials being delivered to site will only be accepted from the source from which the quotations have been obtained.

Before any payment is made for materials delivered to site, stamped receipts from each supplier must be submitted by the Contractor. Alternatively, certificates transferring ownership of the materials to the Contractor will be acceptable. All materials shall be delivered and deposited on the works and, where required, at the expense of the Contractor whose tender for the completed work must include the cost of carriage, cartage, storage and protection necessary. He shall provide all transport to and from the site and within the site for the distribution of materials.

Any materials supplied by the Employer shall be deposited in any part of the site that the Employer may select, transport of the materials from one part of the site to the other, or distribution of the materials within the site shall be the responsibility of the Contractor and shall be deemed to be included in his rates for these items.

1.13. Storage of Materials

It is essential that the Contractor shall provide adequate fenced and secure storage of materials. This storage shall consist of an open fenced compound within which a lock-up weather-proof container shall be provided. Both the compound and container shall be secure against trespass and vandalism.

It shall be the Contractor's responsibility to obtain the temporary use of ground on which the materials can be stored. In the event of the Contractor wishing to use public space, the permission of the Cork County Council shall first be obtained. There is no guarantee that permission will be provided for the Contractor's request.

1.14. Ownership of Materials

Materials and things excavated, cut down or removed in the course of any operation arising out of this contract, whether on public or private property, shall not become the property of the Contractor. The Employer's Representative will allow the Contractor to use suitable excavated material for the purpose of the contract if they comply with the Specification (Volume A1 – Specification, Works Requirements).

1.15. Method of Measurement

The Pricing Document (Volume C) is presented in the form which outlines a schedule of rates.

1.16. Contractor's Offices

The Contractor shall maintain on site, adequate office accommodation for the Contractor's personnel. He shall also provide suitable arrangements for temporary messing facilities for the workmen in close proximity to the works.

1.17. Contractor's Sanitary Accommodation

The Contractor shall provide suitable sanitary arrangements for the workmen engaged in the construction work either on site or in close proximity and he shall ensure that such accommodation is kept in a hygienic and clean condition.

1.18. Accommodation for Employer's Personnel

The Contractor is not required to provide accommodation for the Employers personnel.

1.19. Setting Out

The Contractor shall establish a master benchmark to enable the proper and correct setting out of the works. This master benchmark shall relate to Ordnance Datum and the permissible deviation in level between the master benchmark and Ordnance Datum shall be ± 20 mm.

The Contractor shall set out the works in accordance with the drawings, Specifications and any additional instructions that the Employer's Representative gives in writing during the course of the

contract. All levels in the contract refer to Ordnance Datum, Malin Head. Drawings are not to be scaled. The Contractor shall only use dimensions figured on the drawings for setting out the works.

Where water levels of any type are shown on the drawings, such as lake levels, tide levels, river levels, flood levels or culvert levels, these are based on the best available information but are not guaranteed. The Contractor must verify such levels for himself before basing any contract price on them.

1.20. Prevention of Pollution

During the course of the contract, the Contractor shall ensure that no deleterious materials shall be deposited into any water. The Contractor shall comply with the requirements of the River Pollution Protection Act, Waste Management Acts, Public Health Acts, Fisheries Acts and all enabling Regulations pertaining to these Acts.

The Contractor shall take precautions to protect persons and properties from damage and nuisance caused by water, smoke, dust, rubbish, smell, etc., during the course of the Contract.

1.21. Record Photographs/ Condition Photographs

Immediately before construction commences in all areas of the contract, riverbanks, adjacent buildings and walls, bridges, roads, footpaths, etc. shall be photographed by the Contractor so a record prior to commencement of works is available. This information is to be forwarded to the Employer's Representative prior to commencement of any works by the Contractor.

1.22. Traffic Control

The proposed works are located alongside the public road. A Traffic Management Plan is to be prepared by the Contractor and submitted to the Employer's Representative for approval prior to commencement of the works on site.

The information in this plan must include the following: -

- (a)** Outline delivery procedures
- (b)** Details of pedestrian management
- (c)** Access to the existing pier and slips is to be maintained at all times.
- (d)** Ensure Emergency access is always available to all Emergency services

The contractor shall supply all signage, cones, lighting, fencing necessary associated with the Traffic Management at his own cost. The Contractor shall be required to comply fully with the Cork County Council's requirements in respect of signposting, traffic control, etc. He shall be required to comply with the recommendations given in the Department of Transport's "*Traffic Signs Manual*" (including all supplemental updates) and with "*Local Authorities Procedure for Compliance with the Safety,*

Health and Welfare at Work (Construction) Regulations SI 291 of 2013” to ensure that his operations are carried out in a safe manner.

The Contractor may be asked to submit a Traffic Management Plan during the tender assessment period and if so he must provide a plan to comply with the requirements as set out above. All costs required in order to comply fully with this section of the specification shall be deemed to be included in the Contractor’s tendered sum.

1.23. Traffic Management Plan

A traffic management plan must also be designed by the contractor. All costs associated with signage and compliance with the current regulations is the responsibility of the contractor.

Access to the existing pier and slips is to be maintained at all times.

Working space shall be kept to a minimum and the Contractor’s plant shall be appropriately sized.

1.24. Contractor to Meet Employer’s Representative

As soon as practicable after the award of the contract, the successful Contractor will meet with the Employer’s Representative in order to agree procedures for reporting, avoiding or minimising, monitoring, recording, managing generally and valuing contemporaneously and properly any changes or impediments to the works or their progress that may arise.

Any agreements reached shall be recorded and the Contractor, any Sub-Contractors and the Employer’s Representative throughout the contract shall implement the agreed procedures.

1.25. Site Inspection

The Contractor shall inspect and examine the site and its surroundings before submitting a tender. He shall note particularly any features or irregularities of ground surface that could not be clearly shown or delineated on the plans.

1.26. Site Meetings

The Contractor and/or his Representative or Supervisor shall attend progress meetings, which shall be held at least once every fortnight. It will be necessary for sub-contractors and suppliers as appropriate to attend these meetings if they are required. Minutes of these meetings shall be taken by the Employer’s personnel and distributed to all concerned. The Contractor shall keep his programme up to date and revised programmes shall be submitted to the Employer’s Representative at each site meeting or as requested.

With each programme, the Contractor shall submit details of proposals to bring the programme up to date, if necessary, to ensure that the finishing deadline will not be exceeded. These up-to-date

records shall be produced in the form of a chart for comparison with the bar chart programme produced at tender stage.

1.27. Existing Services

It will be assumed that rates entered in the tender documents for dealing with the services fully cover this item and claims for delays or disruption due to difficulties encountered in dealing with existing services will not be entertained.

The Contractor shall indemnify the Employer prior to commencing on site with regard to damage caused by him to third party services. He will then be solely responsible for damage caused to third party services.

The Contractor shall take all necessary precautions to ensure the safety of his operatives while working in close proximity to power cables. He shall include in his rate for all difficulties, delays, disruption, etc., caused by working in proximity of these power cables.

The contractor shall note that there is also a water service which supplies the water points in the area and care needs to be taken to ensure the water supply is not damaged.

1.28. Excavating Near Existing Services

Before commencing any works, the Contractor shall confirm the location of the existing services serving the pier and ensure that they are highlighted and protected.

1.29. Site and Laboratory Tests

The cost of field testing any portion of the works to determine whether it reaches the standard required by the specification shall be borne by the Contractor. The cost of recovering work not properly inspected shall be borne by the Contractor.

Where laboratory tests are required to establish suitability of materials or finished work, the Contractor shall bear the cost of laboratory fees of such tests if the specimens submitted do not fulfil the requirements of the specification.

1.30. Testing of Liquid Retaining or Excluding Structures

There is no requirement for testing liquid retaining or excluding structures under this contract.

1.31. Water for Construction and Testing

The Contractor must depend entirely on his own resources for the provision of adequate supplies of water required for the testing and construction of the works. If water is obtained from Cork County Council, the Contractor shall pay all water charges incurred.

1.32. Safety, Health and Welfare

The Contractor is reminded that all construction and other allied work is subject to the provisions of the Safety, Health and Welfare at Work (Construction) Regulations 2013, (S.I. 291 of 2013). This work is also subject to the provisions of the Safety, Health and Welfare Act, 2005. The Contractor's attention is drawn to his obligations arising under these Regulations and Acts, as well as to the Preliminary Safety and Health Plan, prepared by the Project Supervisor (Design Process) and included in the Contract Documents.

1.33. Temporary Works

In the schedule of rates in Volume C – Pricing Document, the Contractor is invited to enter items as required to cover all his temporary works, site mobilisation, demobilisation, etc. The onus is on the Contractor at tender stage to estimate what temporary works the Contractor requires to construct the works and to price the relevant section accordingly.

In addition, the Contractor will be required to obtain the Employer's Representative's Statement of 'No Objection' prior to proceeding with temporary work items. Such a statement shall not relieve the Contractor of his obligations.

1.34. Freedom of Information Act, 1997

The Local Authority (Employer), undertakes to use its best endeavours to hold confidential any information provided by the Tenderer in his tender subject to the Authority's obligations under law including the Freedom of Information Act, 1997 (which came into force for Local Authorities from 21st October 1998). Should the Tenderer wish that any of the information supplied by him in the Tender should not be disclosed because of its sensitivity, he shall when providing the information, identify same and specify reasons for its sensitivity.

The Authority will consult with the Tenderer about this sensitive information before making a decision on any Freedom of Information request received. In the event that the Local Authority decides to release particular information relating to the Tenderer, he shall have the option of appealing such decision to the Information Commissioner.

Please note that in the event of no information is identified by the Tenderer as sensitive, with supporting reasons, then it is likely to be released in response to a request under the Freedom of Information Act.

1.35. Social Welfare Regulations

By law, Employers in the construction industry must register with the Department of Social Welfare all employees, whose employment commences on or after the 1st of January 1989 or the engagement of Sub-Contractors whose employment commences on or after the 1st of January 1990.

A Sub-Contractor is also legally bound to notify the Department of Social Welfare of any person engaged to perform any service either with him or on his behalf whether under a contract or any arrangement made or to be made by him. All notifications must be sent to the Department of Social Welfare within one month of the new employee, Sub-Contractor or other person being taken on. Welfare (Notification by Employees of Commencement of Employment) Regulations, 1988 (SI 296 of 1988). Social Welfare (Commencement of Employment) Regulations, 1989 (SI. 339 of 1989).

1.36. Tendering in EURO (€)

The Tenderer must tender for this contract in EURO (€). It will be assumed that this currency has been used throughout the Tender.

1.37. Disposal of Surplus Material

The Contractor shall note the provisions relating to disposal of spoil. The Contractor shall dispose of all excavated spoil in accordance with the legislation as outlined below. The onus shall be on the Contractor to procure a suitable licensed tip site and he shall ensure that the road surfaces are kept clear of mud and debris at all times to ensure the safety of the general public as specified below.

The Contractor shall note that the disposal of surplus and unsuitable material is his responsibility, and he shall ensure that all provisions, permits and licences necessary for compliance with the 1996 and 2006 Waste Management Act as amended in 2001 and all relevant regulations that are in place prior to removal material off site.

1.38. Archaeological Attendance

There is no requirement for the employment of an Archaeologist.

1.39. Fencing of Site

Public works contracts have been subjected over the years to trespass, vandalism and theft. The Contractor shall erect security fencing around the construction areas to minimise the prospect of unauthorised entry to the sites. The Contractor shall submit his proposals for secure fencing to the Employer's Representative before work commences.

1.40. Protection of Works

During the course of the contract, the Contractor shall provide all necessary protection and coverings for the works. Finished work shall be suitably protected from damage. Special care shall be taken to ensure that finished work of one type is not damaged by subsequent operations of another kind. Any exposed finishes shall be carefully protected from splashings of mortar, concrete or any other material likely to cause surface damage. Any work damaged during the progress of construction must be entirely removed and replaced.

1.41. Alternative Materials

The Contractor may submit alternative proposals with his Tender. Where alternative materials are proposed these shall have a minimum strength class as the basic material. The Contractor shall note that the approval of the Employer's Representative shall be required for alternative proposals. This approval will only be given following a technical review of the proposal and the Employer's Representative will not be bound to accept any proposed alternative. The Contractor shall provide any technical justification requested by the Employer's Representative to facilitate his review of any alternative proposal.

1.42. Liaison with Statutory Bodies

The Contractor shall liaise with all statutory bodies in relation to his proposed methods of work. The Contractor's proposed methods of work shall be submitted in writing to Cork County Council in advance of the works. The Contractor shall include for the above in his tendered amount.

1.43. Noise Control.

The Contractor shall employ the best practical means to minimise noise produced by his operations, including plant maintenance, and shall comply with the recommendations in BS 5228 (Noise Control on Construction and Open Sites).

All vehicles and mechanical plant used on the works shall be fitted with effective exhaust silencers and shall be maintained in good and efficient working order for the duration of the works in compliance with BS 5228. Machines in intermittent use shall be shut down in the periods between work or throttled down to a minimum. The Contractor shall remove from the works any item of plant which, in the opinion of the Employer's Representative, is ineffectively silenced. All compressors shall be "sound reduced" models fitted with properly lined and sealed acoustic covers which shall be kept closed whenever the machines are in use. All ancillary pneumatic percussive tools shall be fitted with mufflers or silencers of the type recommended by the manufacturers. Pumps and mechanical static plant shall be enclosed by acoustic sheds or screens where directed by the Employer's Representative. Sound levels shall be monitored by methods set out in Appendix B of BS 5228. All measurements shall be made 1 m outside the facade of each building in question using a sound level

meter conforming to IS EN 60651 on SLOW response. Any plant, such as generators and pumps, which is required to work outside the hours of 07.00 to 19.00, shall be surrounded by an acoustic enclosure to the approval of the Employer's Representative which shall restrict the noise level to not less than 5 dB(A) below levels quoted hereunder. The period referred to as "night" in Clause 45 in the Conditions of Contract shall be from 19.00 to 08.00. The Contractor shall organise his operations with regards to the positioning of plant and the location of haul routes, etc., so as to minimise construction noise to adjacent properties. Piling, including temporary piling, shall be carried out by recognised noise reduced systems. Piling shall not be carried out before 08.00 or after 18.00 without the written consent of the Employer's Representative. When the use of explosives is permitted by the Employer's Representative, blasting shall be restricted to the hours authorised in the Employer's Representative's written consent. In general, work will not be permitted on Sundays and Bank Holidays except where it is unavoidable.

The Contractor shall ensure that at all properties outside the site boundaries the sound levels arising from activities do not exceed the following values:-

Working Period Mean Noise Limit Peak

	Working Times	Mean Value (1hr) dB (A)	Peak dB (A)
a)	Mon – Fri 08.00 to 18.00	70	85
b)	Mon – Fri 18.00 to 22.00	60	65
c)	Saturdays, Sundays & Bank Holidays 09.00 to 16.00	60	65

At all other times, the sound level of 50 dB(A) L10 (18 hr) and a maximum noise level of 55 dB(A) must not be exceeded unless the existing ambient noise levels are higher. In such cases, the ambient noise level can be exceeded by 5 dB(A).

1.44. Site to be Tidy (Dirt Control, etc.).

The Contractor shall be responsible for keeping the whole of the site, i.e., the site or sites on private property or along public roads, passageways or public open spaces, in a clean and tidy condition. The Resident Employer's Representative shall be empowered to require him to tidy the site and to store materials in a manner in which they can be readily checked for monthly certificates. The Contractor shall take every precaution to prevent dirt, mud or other material being dropped or spread by traffic associated with the work on roads being part of the works which are made available for public use by the Contractor, whether such traffic is the Contractors own vehicles, the Sub-Contractors or his suppliers or vehicles hired by any of the above.

The Contractor shall clean roadways of any such dirt, mud or other materials which may be spilt or spread by traffic travelling to or from the site in connection with the works, whether such traffic

belongs to the Contractor, his Sub-Contractors or his suppliers. The Contractor shall employ a road suction sweeper to clean all public roads within a distance of 500m of the site. Such cleaning operations shall be carried out notwithstanding road cleaning work being carried out by the Employer or other Contractors to the Employer. If the Contractor fails to keep roads and other public areas clean to the satisfaction of the Employer's Representative, the Employer shall be entitled to do the work and deduct the cost from any sums due to the Contractor.

The Contractor shall take particular care to avoid damage to roads, footpaths, grass margins and other surfaces outside of the authorised site and shall be liable for the cost of repairing, to the satisfaction of the Employer's Representative and the owner, all such damage caused by his operations. He shall take precautions to prevent spillage of diesel fuel or other solvents.

He shall also prohibit the use of tracked plant on road surfaces outside of the site unless suitably approved protective measures are taken to safeguard the integrity of the road surfaces. Any damage so caused shall be made good by the Contractor at his own expense.

1.45. Nuisance from Dust and Vibration.

The Contractor shall provide and maintain and keep available plant and equipment necessary to minimise the formation and accumulation of dust arising from the works, in dry weather conditions. The Contractor shall take all steps necessary to minimise vibration caused by plant and machinery used on the site. No machine shall be permitted which uses a system of dropping a heavy weight, whether power assisted or by gravity, for the purpose of breaking up paving or foundations. Vibrations shall be monitored by vibrometer supplied by the contractor where instructed by the Employer's Representative. Vibrations associated with mechanical plant shall not exceed 2.5 mm/s as peak particle velocity in any perpendicular direction at the property boundary.

1.46. Health and the Environment.

The Contractor shall take all necessary precautions to avoid injury to public health, animal health and the surrounding environment. Particular care shall be taken to prevent the discharge of deleterious material to watercourses and streams. The Contractor shall rigorously conform to the provisions of Local Government (Water Pollution) Act, 1977 and subsequent amendments. He shall take particular care in disposing of water from excavations, washing, flushing or testing to ensure that no damage is caused to existing watercourses by erosion, siltation or contamination and shall be liable for making good any such damage to the satisfaction of the Employer's Representative.

1.47. Public Relations.

The Contractor shall give 14 days notice to the Gardaí, Cork County Council, pier and slip users of impending events likely to cause disturbance, such as the planned disconnection of services, demolition by explosion, prolonged working at nights or at weekends, movements of heavy loads liable to cause traffic congestion, or any other planned abnormal occurrence likely to cause disturbance to persons in the vicinity of the works.

2. METHOD STATEMENTS

2.1. Detailed Method Statement

Before any work commences, detailed method statements relating to the contractor temporary works and construction methodology must be submitted to the Employers representative for approval.

Method statements shall include, at a minimum:

- a) Site constraints
- b) A site-specific risk assessment for works and traffic management, which will be signed by all relevant personnel
- c) Proposed methodology for execution of the works
- d) Proposed location of access for all labour and equipment, equipment facilities, special specification restraints, health and safety issues etc.
- e) Temporary Works Design Certificates where necessary

The successful Tenderer shall submit a construction method statement which will include the following documents prior to appointment:

- f) A traffic management plan
- g) A company safety statement
- h) A developed Construction Health & Safety Plan
- i) Method statements for the works
- j) CSCS cards and details of all relevant training for personnel on site
- k) Company tax clearance cert
- l) Evidence of insurances as requested in this document

3. PROPOSED WORKS

3.1. General

The particular specification is as follows and shall be read in conjunction with the drawings. The project includes improvement works to Cleanderry West Pier as set out in the drawings.

The works to be carried out under this Contract are summarised as follows: -

- Role as Project Supervisor Construction Stage
- New Reinforced Concrete Steps and grab rail
- New Reinforced Concrete ramp between new steps and existing pier
- Raise pier wall and deck and provide new Reinforced Concrete deck on existing pier
- Raise access road to tie into new pier deck levels
- Supply and install new solar light on pier
- Supply and install handrails, toe rails, T bars, mooring rings and replace existing ladder at head of pier
- Provide new reinforced concrete turning area at entrance to pier
- Signage

Access to the pier and slips must be maintained at all times. All planned works must be agreed with Cork County Council at least 7 days in advance of taking over an area.

The Contractor shall also note that the works are located within tidal waters and will need to allow for this in his rates.

3.2. Reinforced Concrete Steps & Ramp

A detailed method statement is required to be submitted to Cork County Council 7 days in advance of commencing the works. The Contractor shall provide 7 days' notice in advance of the works commencing.

The Contractor shall provide new reinforced concrete steps and reinforced concrete slip on the western side of the existing pier. The area is not fully accessible at low tide. The Contractor must secure the area with appropriate temporary fencing in advance of commencing any works on the western section of the pier.

Works include the following: -

All concrete, spoil, and soft material shall be excavated down to solid datum (formation level) as per area shown on Drawing No. WC-26-017-02. The excavated material shall be removed from site. Rock outcrops encountered will be broken and removed from site.

A reinforced concrete structure to infill the sections shall be provided in accordance with drawing nos. WC-26-017-02 and WC-26-017-03. The new steps and slip shall cover an area of approximately 15 sq. metres.

The Contractor shall provide a Temporary Works Design Certificate to the PSDP for the following works:

Proposed access system

The access system must allow for safe access for shuttering over the water. The shuttering is over 1.65m in height and may require 2 pours. If 2 pours are required, a 25mm grout check is to be installed

Shuttering System

Works include the following: -

The Contractor shall drill and install H16 reinforcement bars 700mm long at 400mm centres vertically along the existing solid datum (formation level) and horizontally at upper and lower deck level to lap with the reinforcing mesh. The reinforcement bars shall be installed using Hilti-HIT-200A and in accordance with manufacturer's instructions and embedded 300mm. The Contractor shall lap sheet fabric to BS 4483, A393 mesh (Nominal Mass 6-7 Kg/m²) to these starter bars. The Contractor shall provide A393 mesh to all faces. The Contractor shall ensure that the A393 mesh will overlap by 400mm. H16 reinforcement L-Bars to BS 8666:2005 (500mm each leg) - bars shall be placed at the vertical and horizontal corners of the deck which are to overlap the mesh. 75mm cover is required to all the reinforcement.

The contractor shall shutter and pour concrete. Concrete shall be a designed mix, Grade C40/50 cement to IS EN 206-2013, 20mm aggregate and the slip and steps shall be finished with a brush finish. The Contractor shall ensure that the timing of the concrete pour takes account of the tidal waters. Any diwi-dag holes shall be filled and plugged on completion. The area shall be left free of construction material on completion.

3.3. Raise Reinforced Concrete Pier Walls and Deck

A detailed method statement is required to be submitted to Cork County Council 7 days in advance of commencing the works. The Contractor shall provide 7 days' notice in advance of the works commencing.

The Contractor shall provide new reinforced concrete pier walls and infill to pier deck to raise the pier deck level to 2.0m O.D. The area is fully accessible at low tide. The Contractor must secure the area with appropriate temporary fencing in advance of commencing any works on the pier.

Works include the following: -

A reinforced concrete structure to infill the pier with recessed ladder shall be provided in accordance with drawing nos. WC-26-017-02 and WC-26-017-03. The infill shall cover an area of 4.5 cubic metres.

The Contractor shall provide a Temporary Works Design Certificate to the PSDP for the following works:

a) Proposed access system

The access system must allow for safe access for shuttering over the water.

b) Shuttering System

Works include the following: -

The contractor shall removal and dispose of 1 No. existing ladder in accordance with the Waste Management Act.

The Contractor shall form 'ope' for recessed ladder and shall be shuttered and formed during concrete infill works.

The Contractor shall drill and install H16 reinforcement bars 375mm long at 200mm centres vertically along the existing pier wall and horizontally at upper deck level to lap with the reinforcing mesh. The reinforcement bars shall be installed using Hilti-HIT-200A and in accordance with manufacturer's instructions and embedded 150mm. The Contractor shall drill and install H16 reinforcement bars 700mm long at 400mm centres vertically along the existing granular pier deck. The reinforcement bars shall be installed using Hilti-HIT-200A and in accordance with manufacturer's instructions and embedded 300mm. The Contractor shall lap sheet fabric to BS 4483, A393 mesh (Nominal Mass 6-7 Kg/m²) to these starter bars. The Contractor shall provide A393 mesh to top and bottom of new pier deck. The Contractor shall ensure that the A393 mesh will overlap by 400mm. 75mm cover is required to all the reinforcement.

The contractor shall shutter and pour concrete. Concrete shall be a designed mix, Grade C40/50 cement to IS EN 206-2013, 20mm aggregate and the deck shall be finished with a brush finish. The Contractor shall ensure that the timing of the concrete pour takes account of the tidal waters. Any diwi-dag holes shall be filled and plugged on completion.

Once the concrete repairs and pour have been completed, the Contractor shall install the ladder, as per drawings WC-26-017-02 and WC-26-017-08. Length to be confirmed on site prior to manufacture. Please note stainless steel bolts to be used for fixings to concrete. Ladder to be fabricated in steel and shall be hot-dip galvanised to a minimum thickness of 610 grams per sq. meter to BS EN ISO 1461:1999 as per drawings. The top of the access ladder shall receive a primer and 2 coats of RAL 2005 (luminous orange) in the fabrication shop to ensure quality of finish work. The ladders shall be touched up on site if required. The Contractor shall also note the restrictions set out in Section 1.22 – Traffic Control in relation to the occupying the work area. Attention is also drawn to the obligations of the Contractor under Section 1.33 – Temporary Works relating to the Contractors methodology of work. Ladders to be installed in compliance with the Code of Practice for the Design and Installation of Anchors. Anchor Form: FM-03 – Checking installation of temporary / permanent anchors for the installation of the anchor bolts on all ladders is to be supplied on completion of the installation of the ladders in accordance with the Code of Practice for the design and installation of anchors (see Appendix 3). Neoprene washers to be used between the galvanised material and the stainless-steel fixings.

3.4. Reinforced Concrete Slip

A detailed method statement is required to be submitted to Cork County Council 7 days in advance of commencing the works. The Contractor shall provide 7 days' notice in advance of the works commencing.

The Contractor shall provide new reinforced concrete slip at the entrance to the pier to provide a safe turning area. The area is fully accessible at low tide. The Contractor must secure the area with appropriate temporary fencing in advance of commencing any works at this location.

Works include the following: -

All concrete, spoil, and soft material shall be excavated down to solid datum (formation level) as per area shown on Drawing No. WC-26-017-04. The excavated material shall be removed from site. Rock outcrops encountered will be broken and removed from site.

A reinforced concrete structure to infill the sections shall be provided in accordance with drawing nos. WC-26-017-04 and WC-26-017-05. The new slip shall cover an area of approximately 63 sq. metres.

The Contractor shall provide a Temporary Works Design Certificate to the PSDP for the following works:

Proposed access system

The access system must allow for safe access for shuttering over the water.

Shuttering System

Works include the following:

The Contractor shall drill and install H16 reinforcement bars 700mm long at 400mm centres vertically along the existing solid datum (formation level). The reinforcement bars shall be installed using Hilti-HIT-200A and in accordance with manufacturer's instructions and embedded 475mm. The Contractor shall lap sheet fabric to BS 4483, A393 mesh (Nominal Mass 6-7 Kg/m²) to these starter bars. The Contractor shall provide A393 mesh top and bottom of new slip. The Contractor shall ensure that the A393 mesh will overlap by 400mm. 75mm cover is required to all the reinforcement.

The contractor shall shutter and pour concrete. Concrete shall be a designed mix, Grade C40/50 cement to IS EN 206-2013, 20 mm aggregate and the slip shall be finished with a brush finish. The Contractor shall ensure that the timing of the concrete pour takes account of the tidal waters. Any diwi-dag holes shall be filled and plugged on completion. The area shall be left free of construction material on completion.

3.5. Access Road

The new stone access road shall be compacted and shall tie in with new pier deck level, new reinforced concrete ramp and new reinforced concrete steps as shown on the drawing no. WC-26-017-02. The Contractor shall supply and install new road gully, drainage pipe, pipe bedding and surround.

From its current level to within 125mm of the surface shall be approved imported granular material from 150mm maximum to 40mm minimum or otherwise as specifically approved by Cork County Council. The material shall be placed in layers not exceeding 200mm loose depth and rolled with a vibrator roller in accordance with Table 8/1.

The top 125mm shall be Clause 804 granular backfill material, as defined by the NRA "Specification for Road Works" is generally to be used. The backfill material shall be compacted in layers in accordance with Table 8/1.

Table 8.1 – COMPACTION REQUIREMENTS FOR UNBOUND MATERIALS IN ROAD PAVEMENTS				
Type of Compaction Plant	Category	Number of Passes for layers		
Smooth wheeled roller (or vibratory roller operating over 5,400kg without vibration)	Mass Per metre width of roll:	110mm	150mm	225mm
	Over 2,700kg up to 5,400kg Over 5,400kg	16 8	Unsuitable 16	Unsuitable Unsuitable
Pneumatic-tyred roller	Mass per wheel:			
	Over 4,000kg up to 6,000kg	12	Unsuitable	Unsuitable
	Over 6,000kg up to 8,000kg	12	Unsuitable	Unsuitable
	Over 8,000kg up to 12,000kg Over 12,000kg	10 8	16 12	Unsuitable Unsuitable
Vibratory Roller	Mass per metre width of vibrating roll:			
	over 700kg up to 1,300kg	16	Unsuitable	Unsuitable
	over 1,300kg up to 1,800kg	6	16	Unsuitable
	over 1,800kg up to 2,300kg	4	6	10
	over 2,300kg up to 2,900kg	3	5	9
	over 2,900kg up to 3,600kg	3	5	8
	over 3,600kg up to 4,300kg	2	4	7
	over 4,300kg up to 5,000kg over 5,000kg	2 2	4 3	6 5
Vibrating Plate Compactor	Mass per unit area of base plate			
	over 1,400kg/m ² up to 1,800kg/m ²	8	Unsuitable	Unsuitable
	over 1,800kg/m ² up to 2,100kg/m ² over 2,100kg/m ²	5 3	8 6	Unsuitable 10
Vibro-Tamper	Mass:			
	over 50kg up to 65kg	4	8	Unsuitable
	over 65kg up to 75kg over 75kg	3 2	6 4	10 8
Power Rammer	Mass:			
	100kg – 500kg over 500kg	5 5	8 8	Unsuitable 12

3.6. Handrails and Grabrails

The Contractor shall supply and install approximately 5.5m of handrail on western side of pier as shown on the drawings on the new raised pier deck and 6.6m grabrail for the new reinforced concrete steps. The Contractor will ensure that the length of the handrails are checked and measured prior to fabrication. The drawing is indicative of the handrail required.

Handrails and grabrails shall be fabricated in steel and shall be hot-dip galvanised to a minimum thickness of 610 grams per sq. meter to BS EN ISO 1461:1999. All joints shall be welded. 60.3x5mm CHS sections for posts. 48.3x5mm CHS sections for rails (mid and top). Support posts at maximum 2m spacings. Base plates to be 150x150x10mm. The handrails shall be bolted using Hilti HUS-HR-14 h_nom1. FM certification for the handrails shall be provided on completion as per Appendix 3.

The handrails shall receive a primer and 2 coats of RAL 9003 paint (signal white) in the fabrication shop to ensure quality of finish work. The rails shall be touched up on site if required. The Contractor shall also note the restrictions set out in Section 1.22 – Traffic Control in relation to the occupying the work area. Attention is also drawn to the obligations of the Contractor under section 1.33 Temporary Works relating to the Contractors methodology of work.



3.7. Toe Rails

The Contractor shall supply and install 9m of toe rails as shown on the drawings on the proposed slipway. The length of the toe rails are 3m each, and the Contractor will ensure that the lengths of the toe rail are checked and measured prior to fabrication. The drawing no. WC-26-017-06 is indicative of the rail required.

The Contractor shall supply and install 6.9m of toe rails as shown on the drawings on the proposed new reinforced concrete pier deck. The length of the toe rails are 3no. x 1.5m and 3no. x 0.8m, and the Contractor will ensure that the lengths of the toe rail are checked and measured prior to fabrication. The drawing no. WC-26-017-06 is indicative of the rail required.

The list of the individual toe rail is as follows:

Toe-rail Length (m)	
3.0	Slipway
3.0	Slipway
3.0	Slipway
1.5	Pier Deck
1.5	Pier Deck
1.5	Pier Deck
0.8	Pier Deck
0.8	Pier Deck
0.8	Pier Deck
Total length	15.9

Toe rails shall be fabricated in steel and shall be hot-dipped galvanised to a minimum thickness of 610 grams per sq. meter to BS EN ISO 1461:1999. Toe Rails shall be cored and installed using Hilti Hit Hy 200A. The toe-rails shall receive a primer and 2 coats of RAL 1023 paint (yellow) in the fabrication shop to ensure quality of finish work. The rails shall be touched up on site if required. The Contractor shall also note the restrictions set out in Section 1.22 – Traffic Control in relation to the occupying the work area. Attention is also drawn to the obligations of the Contractor under section 1.33 Temporary Works relating to the Contractors methodology of work.

3.8. Mooring Rings and T-Bars

The contractor shall removal and dispose of 2 No. existing mooring rings in accordance with the Waste Management Act. The Contractor shall supply and install 3 No. mooring rings as shown on the drawings. Mooring Rings will be fabricated in steel and shall be hot-dip galvanised to a minimum thickness of 610 grams per sq. meter to BS EN ISO 1461:1999. Mooring Rings shall be cored and installed using Hilti Hit 200A. The mooring rings shall receive a primer and 2 coats of RAL 3020 paint (red) on completion of the work.

The Contractor shall supply and install 4 No. T-Bars as shown on the drawings – WC-26-017-01 and WC-26-017-07. T-Bars will be fabricated in steel and shall be hot-dip galvanised to a minimum thickness of 610 grams per sq. meter to BS EN ISO 1461:1999. T-Bars shall be cored and installed using Hilti Hit 200A. The mooring rings shall receive a primer and 2 coats of RAL 3020 paint (red) on completion of the work.

The Contractor shall also note the restrictions set out in Section 1.22 – Traffic Control in relation to the occupying the work area. Attention is also drawn to the obligations of the Contractor under section 1.33 Temporary Works relating to the Contractors methodology of work.

3.9. Solar Light

The Contractor shall supply and install 1 No. Eco solar powered LED Floodlight as shown on the drawing no. WC-26-017-02. Exact location to be agreed on site.

- Solar Powered LED Floodlight
- Power 80W
- Voltage 12.8V
- IP Rating IP65
- No. of LEDs 30
- Luminous Flux 3000lm
- Colour Warm White

3.10. Signage

The Contractor shall install 1 no. free issue DAFM sign as shown on the drawings.

The Contractor shall provide 1 no. x 2100mm post. The post shall be 75mm in diameter and fabricated in steel and shall be hot- dip galvanised to a minimum thickness of 610 grams per sq. meter to BS EN ISO 1461:1999. The posts shall be cast 450mm into the deck. The DAFM sign shall be erected on the steel posts using appropriate fixings.

3.11. Handover File to PSDP

The Contractor shall provide the following information on handover:

- FM Certs for handrailing and grabrails
- FM Cert for ladder

Volume A- Works Requirement

Appendix 1

Concrete – Surface Finishes

1. Requirement for Trial Panels:

Not Applicable

2. Requirements for surface finishes

Formed Surfaces

Class F3: Applies to all vertical or inclined faces.

The resulting finish, immediately upon removal of the formwork, shall be smooth and of uniform texture and appearance. The formwork lining shall leave no stain on the concrete and shall be so joined and fixed to its backing that it imparts no blemishes. It shall be of the same type and obtained from only one source throughout any one structure. Internal ties and embedded metal parts shall not be used. The Contractor shall submit a survey of the as struck finish identifying any minor imperfections prior to any making good, together with a method statement for any proposed remedial works. Permanently exposed concrete surfaces to all Classes of finish other than F1 shall be protected from rust marks and stains of all kinds. All formwork joints for all classes of finish other than F1 shall form a regular pattern with horizontal and vertical lines continuous throughout each structure and all construction joints shall coincide with these horizontal or vertical lines.

Unformed Surfaces

Class U2: After the concrete has hardened sufficiently, the Class U1 finish shall be brushed with a steel brush to produce a rough surface free from screed marks. All horizontal surfaces are to have a 1:40 gradient seaward to allow for water runoff.

3. Position where internal ties are permitted (other than in rebates) for Class F4 finish:

Not applicable.

4. Locations where a regular pattern of formwork joints is unnecessary:

Not applicable.

Edge requirements

25mm x 25mm chamfers will be placed along all exposed edges with the exception of the step noses.

Appendix 2

Concrete – General

1. Contractor's acceptance of concrete on site

- Check information on delivery docket on arrival;
- Check slump prior to discharge;
- Know the tolerances;
- Have a slump adjustment contingency procedure in place, to be agreed with the ER;
- Record any adjustments on the delivery docket & sample;
- Inspect the concrete visually for any obvious discrepancies;
- Note time of arrival, start and finish times of discharge;
- Reject any noncompliant concrete;
- Have a competent crew and the right equipment;
- Consider effects of inclement weather.

Schedule for the specification requirements of designed mixes:

These mixes below will be supplied as designed mixes in accordance with the relevant clauses of IS EN 206-1			
1. Mix reference		In-situ Type 1	
2. Strength grade (Cylinder/Cube)		C40/50	
3. Nominal maximum size of aggregate, in mm (D)		20	
4. Types of aggregate Coarse Other Fine Other	IS EN 12620	All in aggregate 0/20.	
5. Sulfate class	XA1 XA2 XA3		
6. Cement type(s) or combinations complying with CEM I N IS EN 197-1 CEM I R IS EN 197-1 CEM I SR B.S. 4027 Others (specify requirements)	CEM I N CEM I R CEM I SR		
Cement Additions*		50% GGBS	

Volume A- Works Requirement

7. Exposure Class (as in IS EN 206-1) (or combinations)	XO XC1, XC2, XC3, XC4 XS1, XS2, XS3 XD1, XD2, XD3 XF1, XF2, XF3, XF4 XA1, XA2, XA3	XC4 XS3 XA2 XF3	
8. Chloride Class	Cl 1,0 Cl 0,40 Cl 0,20 Cl 0,10	Cl 0,20	
9. Minimum cement content (kg/m3)		400	
10. Maximum free water/cement ratio		0.55	
11. Quality assurance requirements		See IS EN 206	
12. Rate of sampling intended by the contractor for strength testing (for information)		See Clause 1707	
13. Other requirements (alkali, etc. as appropriate)			
In the case of fresh concrete the following will be completed by the purchaser			
14. Consistence (Choose one method) Slump Class Vebe Class Compaction Class Flow Class	S1, S2, S3, S4, S5 V0, V1, V2, V3, V4 C0, C1, C2, C3 F1, F2, F3, F4, F5, F6	S2 (or S3 for placement by pump if required)	
15. Method of placing (for information)		Contractor to develop method statement.	
16. Other requirements by purchaser of fresh concrete (only if appropriate)		Contractor is to include the cost of additives, if necessary for their methodology, in their rates. For example, VMA etc.	

Volume A- Works Requirement

Appendix 3

Installation of Critical Anchors in accordance with HSA Code of Practice for the Design and Installation of Anchors

[code_of_practice_for_the_design_and_installation_of_anchors.pdf \(hsa.ie\)](#)

Checking Installation of Temporary / Permanent Anchors

Anchor Form: FM-03

Use this checklist to verify that the right anchors are being installed and that they are being installed correctly (e.g. in accordance with the manufacturer's instructions).

Project: _____
 Anchor installer: _____
 Supervisor: _____
 Date: _____

☐ Tick here if you are
attaching anchor test
results

Specified Anchor

Check the installation of the anchors against the following specification.

Anchor make: _____
 Anchor type: _____
 Reference number: _____
 Location on site: _____
 Anchor purpose: ☐ Permanent anchor ☐ Temporary anchor

Anchor Being Used On Site

Check the anchor type. Tick if correct.

Correct make of anchor: ☐
 Correct type of anchor: ☐
 Correct anchor reference number: ☐
 Correct anchor material: ☐
 Correct anchor diameter: ☐
 Correct anchor length: ☐
 Correct corrosion protection: ☐
 Correct ETA reference number: ☐
 Correct head marking (if any): ☐

Installation of Anchor

Check the anchor installation. Tick if correct.

Correct installation instructions available: ☐
 Correct number of anchors: ☐
 Correct edge distances and spacing: ☐
 Correct drill bit: ☐
 Correct hole diameter and hole depth: ☐
 Correct cleaning tools and procedures: ☐
 Correct setting tools: ☐
 Anchors installed correctly: ☐
 Anchor tests (if required / specified): ☐

Concrete Base Material

Check the condition of the concrete base material.

Condition (generally): _____ (in anchorage area) _____
 Clashes with rebar: _____ Concrete cube results: _____

Additional comments: _____

Supervisor's name: _____ Signature: _____

VOLUME A2 –DRAWINGS

Drawing No.	Drawing Title
WC-26-017-00	Site Location – Discovery Map
WC-26-017-00(A)	Site Location – Vector Map
WC-26-017-01	Site Overview – Pier and Turning Area Plan Layout
WC-26-017-02	Pier Plan Layout - Overview
WC-26-017-03	Pier Plan Layout – Section A-A
WC-26-017-04	Turning Area Plan Layout
WC-26-017-05	Turning Area Layout – Section B-B
WC-26-017-06	Toe Rail Detail
WC-26-017-07	T Bar and Mooring Ring Detail
WC-26-017-08	Ladder Detail
WC-26-017-09	DAFM Signage