

GYSBI PMO

SCOPE OF WORK

CLIENT: GYSBI

BUSINESS UNIT: OPERATIONS

SITE / ASSET: GSB – QUAYSIDE OPERATIONS

PROJECT TITLE: VESSEL TO GANGWAY STAIR STRUCTURES

PROJECT NO: 0017

DOCUMENT NO: GY01-0017-PM-SOW-001-01
REVISION: A1

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TABLE OF ACRONYMS & TERMS:

ACRONYM	DEFINITION
SOW	Scope of Work
HSSE	Health, Safety, Security, and Environment
GIE	Global Industrial Estate
PMO	Project Management Office
CCTV	Closed-Circuit Television
CAPEX	Capital Expenditure
IFC	Issued for Construction
TBC	To Be Confirmed

1 PURPOSE

This Scope of Work (SOW) defines the requirements for the appointment of an Engineering Design House to undertake the engineering design, technical specification development, Construction Work Pack preparation, fabrication technical oversight, and certification of five (5) Vessel to Gantry Transition Stair Assemblies.

The assemblies shall be designed for permanent use at the quayside in a severe marine environment and shall provide safe personnel access between vessel deck level and fixed gantry structure.

The existing stair structure experienced significant corrosion-related deterioration and structural degradation within approximately two (2) years of service. The replacement assemblies shall therefore be engineered specifically for severe marine exposure, incorporating robust corrosion detailing, enhanced coating systems, and offshore-level fabrication standards to prevent recurrence of the observed failure mechanisms.

The Engineering Design House shall be responsible for delivering a fully engineered offshore-duty design package and a complete Construction Work Pack suitable for in-country fabrication, together with defined Quality Close-Out Dossier requirements and final engineering compliance certification.

The assemblies shall be designed for a minimum fifteen (15) year service life under ISO 12944 C5-M severe marine exposure conditions and continuous mechanical handling.

2 PROJECT OVERVIEW

The Client intends to replace the existing Vessel to Gantry Transition Stair structure currently installed at the quayside.

The replacement scope comprises the engineering and certification of five (5) fixed-height stair assemblies, consisting of:

- Four (4) operational units for permanent use at the quayside
- One (1) spare unit

The stair assemblies shall remain permanently located at the quayside but will be periodically handled for operational positioning using both forklift and crane.

The operating environment is classified as severe marine exposure, characterised by:

1. Continuous salt spray and airborne chlorides
2. High humidity
3. Direct rainfall and standing water exposure
4. Frequent mechanical handling
5. Industrial usage conditions

The Engineering Design House shall be appointed to manage the engineering, documentation, and technical assurance aspects of the project in a remote capacity. Fabrication shall be undertaken by an in-country fabricator in accordance with the Construction Work Pack and quality requirements issued by the Engineering Design House.

The Engineering Design House shall remain technically responsible for the integrity and compliance of the final assemblies.

The assemblies shall be designed as structural steel constructions, with corrosion protection forming a critical design component due to the aggressive environmental conditions.

Interface drawings of the existing arrangement will be provided in the Appendices for reference.

3 SCOPE OF SERVICES – ENGINEERING DESIGN HOUSE

The Engineering Design House shall provide a complete engineering and technical assurance service for the Vessel to Gantry Transition Stair Assemblies.

The scope of services shall include, but not be limited to, the following:

3.1 Design & Engineering

The Engineering Design House shall:

- Define and declare all adopted design codes, standards, load cases, corrosion classification, and design life within the Structural Calculation Report
- Perform structural analysis and calculations for all relevant load cases, including operational loads and lifting/handling loads.
- Develop detailed structural design suitable for offshore-duty application.
- Design all structural members, connections, weld details, and lifting points.
- Develop corrosion detailing integrated into the structural design.
- Define material grades and specifications.
- Produce General Arrangement (GA) drawings.
- Produce detailed fabrication drawings suitable for issue as “Issued for Construction (IFC)”.
- Develop lifting and handling calculations and verification.
- Incorporate all corrosion and durability requirements defined in this SOW.

The Engineering Design House shall remain fully responsible for the adequacy and integrity of the structural design.

3.2 Construction Work Pack (CWP) Development

The Engineering Design House shall prepare a complete fabrication-ready Construction Work Pack suitable for execution by the in-country fabricator.

The CWP shall include:

- IFC drawings.
- Weld maps.
- Material specifications.
- Welding requirements (WPS standards).
- NDT requirements and acceptance criteria.
- Surface preparation requirements.
- Coating specification and application procedure.
- Edge preparation requirements.

- Stripe coating requirements.
- Dimensional tolerances.
- Marking and identification requirements.
- Lifting and handling procedure.
- Inspection & Test Plan (ITP) with defined hold and witness points.

The CWP shall be sufficiently detailed to allow fabrication without reliance on interpretation or design development by the fabricator.

3.3 Remote Fabrication Technical Oversight

The Engineering Design House shall provide remote technical oversight of fabrication activities, including:

- Review and approval of fabricator-submitted WPS and welder qualifications.
- Review of material certificates.
- Review of inspection reports.
- Review of NDT reports.
- Review of coating inspection records.
- Review of dimensional inspection records.
- Technical response to fabrication queries.
- Approval or rejection of deviations.

The Engineering Design House shall ensure that fabrication complies with the approved IFC drawings and Construction Work Pack.

3.4 Quality Close-Out Dossier Definition & Approval

The Engineering Design House shall:

- Define the required structure and contents of the Quality Close-Out Dossier.
- Issue a dossier template to the fabricator.
- Review and approve all quality documentation.
- Confirm traceability of materials.
- Confirm compliance of welding and inspection records.
- Confirm compliance of coating records.
- Issue final Engineering Compliance Statement for each unit.

Each of the five (5) units shall have its own complete and approved Quality Close-Out Dossier.

3.5 Engineering Compliance & Certification

Upon completion of fabrication and review of quality documentation, the Engineering Design House shall issue:

- Engineering Compliance Statement confirming that each stair assembly has been fabricated in accordance with the approved design and Construction Work Pack.
- Confirmation that the unit is structurally compliant with the defined design basis and intended service conditions.

4 FUNCTIONAL & PERFORMANCE REQUIREMENTS

The Vessel to Gantry Transition Stair Assemblies shall be engineered to provide safe, robust, and durable personnel access between vessel deck level and fixed gantry structure under severe marine exposure conditions.

4.1 Structural Performance

The stair assemblies shall:

- Be suitable for continuous industrial use.
- Be designed for permanent quayside deployment in a severe marine environment.
- Be robust against frequent mechanical handling.
- Maintain structural integrity under operational and handling load cases.
- Prevent permanent deformation during lifting and transport.
- Prevent localised overstress at lifting lugs and forklift pockets.
- Maintain structural performance over the defined 15-year service life.

4.2 Configuration Requirements

The stair assemblies shall:

- Be of fixed-height configuration.
- Incorporate a top landing sized to accommodate both vessel and gantry interface dimensions.
- Provide stable and secure bearing at the quayside interface.
- Incorporate industrial-grade non-slip stair treads suitable for wet marine conditions.
- Include handrails on both sides of the stair flight.
- Include intermediate rails where required by applicable standards.
- Include toe plates at exposed edges.
- Eliminate sharp edges and snagging hazards.
- Incorporate drainage provisions to prevent standing water.

4.3 Interface Requirements

The Engineering Design House shall ensure:

- Compatibility between the stair landing and vessel interface geometry.
- Compatibility between the stair landing and gantry dimensions.
- Clearly defined contact and load transfer points.
- No unintended load transfer to vessel or gantry structures.
- Adequate tolerances for safe operational alignment.

4.4 Handling & Lifting Requirements

The stair assemblies shall:

- Incorporate certified crane lifting lugs integral to the primary structural frame.
- Incorporate integrated forklift pockets designed as part of the base structure.
- Be structurally verified for lifting and handling load cases.
- Be balanced for safe lifting.
- Include clearly marked lifting points and Safe Working Load (SWL) identification.
- Include reinforced handling zones to resist wear and mechanical impact.

Handling features shall be designed as primary structural elements and not as secondary additions.

4.5 Safety & Access Requirements

The stair assemblies shall:

- Provide safe ingress and egress for personnel.
- Comply with recognised standards for stair geometry, handrail height, and guarding.
- Minimise trip hazards.
- Eliminate snagging points and exposed sharp edges.
- Maintain non-slip performance under wet conditions.

5 DESIGN REQUIREMENTS & ENGINEERING STANDARDS

The Vessel to Gantry Transition Stair Assemblies shall be designed in accordance with recognised offshore, structural, and access platform design standards appropriate for permanent steel structures operating in severe marine environments.

The Engineering Design House shall:

- Identify and formally declare the design codes and standards adopted for the project.
- Design the assemblies in accordance with recognised international standards for structural steel design, access platforms, lifting points, and marine exposure conditions.
- Ensure compliance with relevant ISO, EN, or equivalent offshore structural standards.

- Incorporate all applicable load cases including, but not limited to:
 - Personnel access and platform use
 - Lifting by crane
 - Handling by forklift
 - Transport and repositioning

- Apply appropriate safety factors consistent with offshore-duty structures.
- Consider repeated handling and operational use within the structural design.
- Consider fatigue effects where relevant due to lifting and handling cycles.
- Ensure compatibility between structural design, corrosion detailing, and coating system performance.

The adopted standards and codes shall be clearly referenced within the Construction Work Pack issued for fabrication.

The structural design shall be suitable for a minimum **fifteen (15) year service life** under ISO 12944 C5-M severe marine exposure classification.

6 CORROSION CONTROL & DURABILITY REQUIREMENTS

Given the premature corrosion-related deterioration of the existing stair structure, corrosion prevention and structural detailing shall form an integral part of the engineering design.

The Engineering Design House shall ensure that corrosion mitigation is achieved through both structural detailing and coating specification, and not by coating system alone.

6.1 Exposure Classification & Design Life

The stair assemblies shall be designed for:

- Severe marine exposure in accordance with ISO 12944 C5-M classification.
- Minimum fifteen (15) year service life.
- Continuous outdoor quayside deployment.
- Frequent mechanical handling.

6.2 Lessons Learned from Existing Structure

The Engineering Design House shall formally consider and address the observed deficiencies of the existing stair structure within the new design.

The following issues were identified in the existing installation:

- Premature corrosion at welded joints and sharp edges.
- Coating breakdown at weld toes and geometric discontinuities.
- Internal corrosion of hollow sections due to moisture entrapment.
- Base plate corrosion associated with water pooling and crevice formation.
- Corrosion initiation at open triangular voids and salt trap geometries.
- Mechanical coating damage at handling zones.
- Operational feedback indicating perceptible lateral movement and insufficient stiffness during use.

The Engineering Design House shall demonstrate within the design documentation and Construction Work Pack how these failure mechanisms have been eliminated in the revised design.

Failure to demonstrate incorporation of these lessons shall constitute non-compliance with this Scope of Work.

6.3 Structural Detailing for Corrosion Prevention

The design shall eliminate moisture traps, crevice zones, and geometries that promote salt accumulation.

The following shall apply:

- Avoid overlapping lap joints in exposed areas.
- Avoid back-to-back angles creating crevice zones.
- Provide drainage paths for all horizontal members.
- Eliminate flat surfaces that allow standing water.
- Enclose open triangular stringer voids using continuously welded curved or formed plates.
- Avoid partially sealed cavities.
- Fully seal weld exposed structural joints where required.

All detailing shall reflect offshore structural best practice for marine exposure.

6.4 Hollow Section Controls

Hollow structural sections shall be avoided where reasonably practicable.

Where hollow sections are used:

- They shall be either fully seal welded or fully vented and drained.
- Drain holes shall be provided at lowest points.
- Vent holes shall be provided where required for coating access.
- Internal moisture entrapment shall be prevented.
- No partially sealed cavities shall be permitted.

6.5 Base Plate & Ground Interface Detailing

The base plate and quayside interface shall be detailed to prevent water pooling and capillary crevice corrosion.

The design shall:

- Avoid flat water-trapping geometries.
- Provide drainage or raised interface detailing where required.
- Eliminate crevice gaps between base plate and structural members.
- Incorporate appropriate edge preparation prior to coating.

6.6 Weld Detailing & Edge Preparation

The Engineering Design House shall ensure:

- Continuous welds in exposed marine zones.
- No stitch welds in exposed structural areas.
- Weld toes ground smooth where required.
- All external edges ground to a minimum radius prior to coating.
- Weld profiles suitable for coating adhesion.
- Weld geometry shall not promote premature coating breakdown.

6.7 Coating Specification

The Engineering Design House shall develop a marine-grade coating specification compliant with ISO 12944 C5-M high durability requirements.

The coating specification shall include:

- Surface preparation requirements (minimum Sa 2.5 blast clean).
- Zinc-rich epoxy primer.
- High-build epoxy intermediate coat.
- Polyurethane or equivalent topcoat.
- Defined total Dry Film Thickness (DFT).
- Mandatory stripe coating of welds, edges, corners, cut-outs, and complex geometries prior to application of full coats.
- DFT inspection and recording requirements.
- Defined repair procedures for coating damage.

6.8 Handling Damage Protection

Given the frequency of crane and forklift handling, the design shall incorporate:

- Reinforced forklift pocket zones.
- Sacrificial wear plates or replaceable wear pads at contact areas.
- Protection measures at lifting lug zones.
- Coating reinforcement at handling interfaces.

Handling provisions shall not compromise long-term corrosion performance.

7 CONSTRUCTION WORK PACK (CWP) REQUIREMENTS

The Engineering Design House shall develop and issue a complete fabrication-ready Construction Work Pack (CWP) for use by the in-country fabricator.

The CWP shall be sufficiently detailed to allow fabrication to be executed strictly in accordance with the engineered design and without reliance on interpretation, redesign, or engineering development by the fabricator.

The Construction Work Pack shall be issued as “Issued for Construction (IFC)”.

7.1 Construction Drawings

The CWP shall include, as a minimum:

- General Arrangement (GA) drawings.
- Fully detailed fabrication drawings.
- Weld maps identifying weld types and extents.
- Lifting lug detail drawings.
- Forklift pocket reinforcement details.
- Base plate and drainage detailing.
- Corrosion detailing features (sealed joints, drain holes, radiused edges).
- Material grades and specifications clearly identified.
- Defined dimensional tolerances.
- Marking and identification requirements.

All drawings shall be coordinated and internally checked prior to issue.

7.2 Fabrication Specifications

The CWP shall define:

- Welding specification requirements (WPS standards).
- Welder qualification requirements.
- NDT requirements and acceptance criteria.
- Dimensional inspection requirements.
- Surface preparation requirements (minimum Sa 2.5).
- Coating application procedure.
- Stripe coating requirements.
- Edge preparation requirements.
- Environmental controls during coating application.
- Handling protection requirements.
- Lifting and marking requirements.

Fabrication shall not commence until the CWP is formally issued.

7.3 Inspection & Test Plan (ITP)

The Engineering Design House shall develop a project-specific Inspection & Test Plan (ITP) which shall:

- Define hold points, witness points, and review points.
- Identify required material verification steps.
- Define weld inspection stages.
- Define NDT stages and acceptance criteria.
- Define dimensional inspection stages.
- Define coating inspection and DFT measurement requirements.
- Define final inspection and release criteria.

The ITP shall clearly identify responsibilities of:

1. Fabricator
2. Engineering Design House
3. Client (where applicable)

7.4 Lifting & Handling Procedure

The CWP shall include:

- Structural verification of lifting points.
- Defined Safe Working Loads (SWL).
- Lifting arrangement drawings.
- Handling procedure for forklift use.
- Identification marking requirements.

8 FABRICATION OVERSIGHT REQUIREMENTS

The Engineering Design House shall provide technical oversight of the in-country fabrication activities in a remote capacity to ensure compliance with the approved design and Construction Work Pack (CWP).

The Engineering Design House shall remain responsible for verifying that fabrication is executed in accordance with the issued IFC drawings, specifications, and Inspection & Test Plan (ITP).

8.1 Fabricator Documentation Review

The Engineering Design House shall review and approve, prior to fabrication where applicable:

- Welding Procedure Specifications (WPS).
- Welder qualification certificates.
- Material certificates.
- Proposed NDT procedures.
- Coating product data sheets.
- Fabricator inspection procedures.

No fabrication activity shall proceed without documented review where required.

8.2 Inspection Record Review

The Engineering Design House shall review and approve:

- Material traceability records.
- Weld inspection reports.
- NDT reports.
- Dimensional inspection reports.
- Surface preparation inspection records.
- Coating inspection records including DFT measurements.
- Non-conformance reports and corrective actions.

8.3 Technical Queries & Deviations

The Engineering Design House shall:

- Provide technical responses to fabrication queries.
- Review and formally approve or reject proposed deviations.
- Assess any deviation for structural, durability, and compliance impact.
- Record approved deviations within project documentation.

No deviation from the IFC drawings or CWP shall be implemented without written approval from the Engineering Design House.

8.4 Hold & Witness Points

Where defined in the Inspection & Test Plan, the Engineering Design House shall:

- Participate remotely in hold and witness point reviews.
- Review photographic or video evidence where required.
- Confirm acceptance prior to release of fabrication stages.

8.5 Engineering Responsibility

The Engineering Design House shall not relinquish design responsibility by virtue of remote oversight.

Final engineering certification shall only be issued following review and acceptance of all required quality documentation.

9 QUALITY CLOSE-OUT DOSSIER REQUIREMENTS

The Engineering Design House shall define, structure, and approve the Quality Close-Out Dossier required for each of the five (5) stair assemblies.

Each unit shall have its own complete and independently compiled Quality Close-Out Dossier.

No unit shall be considered complete without an approved dossier.

9.1 Dossier Structure

The Engineering Design House shall issue a defined Quality Close-Out Dossier template to the fabricator as part of the Construction Work Pack.

The dossier shall be compiled in accordance with the Inspection & Test Plan (ITP) and shall be submitted for review and approval prior to final engineering certification.

9.2 Engineering Documentation

The dossier shall include:

- Approved IFC drawings.
- As-built drawings.
- Structural calculation summary.
- Coating specification.
- Lifting and handling design confirmation.

9.3 Material Traceability

The dossier shall include:

Material Test Certificates (MTCs) for structural steel.
Traceability records linking materials to structural components.
Welding consumable certificates where applicable.

9.4 Welding Records

The dossier shall include:

- Approved Welding Procedure Specifications (WPS).
- Welder qualification certificates.
- Weld maps.
- Visual inspection records.

- NDT reports.
- Records of weld repairs (if applicable).

9.5 Dimensional Inspection Records

The dossier shall include:

- Dimensional inspection reports.
- Tolerance verification records.
- Final geometry confirmation.

9.6 Coating Records

The dossier shall include:

- Surface preparation inspection records.
- Environmental condition records during coating.
- Stripe coat confirmation records.
- Dry Film Thickness (DFT) measurements.
- Coating repair records (if applicable).

9.7 Lifting & Handling Certification

The dossier shall include:

- Lifting lug inspection confirmation.
- Marking and SWL verification.
- Load test certification (if applicable).

9.8 Engineering Compliance Statement

Upon review and acceptance of the complete Quality Close-Out Dossier, the Engineering Design House shall issue an Engineering Compliance Statement confirming that the stair assembly:

1. Has been fabricated in accordance with the approved design and CWP.
2. Meets the defined design requirements.
3. Is suitable for its intended service conditions.

10 DELIVERABLES

The Engineering Design House shall provide the following deliverables under this appointment. All deliverables shall be issued in controlled electronic format and clearly identified by revision status.

10.1 Deliverables Schedule

REF	DELIVERABLE	DESCRIPTION	SUBMISSION STAGE	CONTAINED WITHIN
D-01	General Arrangement Drawings	Overall layout, dimensions, interfaces	Design Phase	Design Drawing Package
D-02	Detailed Fabrication Drawings (IFC)	Fully detailed drawings suitable for construction	Pre-Fabrication	Design Drawing Package / CWP
D-03	Structural Calculations	Structural analysis for operational and handling load cases	Design Phase	Structural Calculation Report
D-04	Lifting & Handling Calculations	Structural verification of lifting lugs and forklift pockets	Design Phase	Structural Calculation Report
D-05	Declared Design Codes & Standards	Statement of applicable standards adopted	Design Phase	Structural Calculation Report
D-06	Corrosion Protection Specification	Marine exposure detailing and corrosion controls	Design Phase	Corrosion & Coating Specification
D-07	Coating Specification	Full coating system and DFT requirements	Design Phase	Corrosion & Coating Specification
D-08	Inspection & Test Plan (ITP)	Hold points, inspection stages, acceptance criteria	Pre-Fabrication	Inspection & Test Plan (ITP)
D-09	Construction Work Pack (CWP)	Complete fabrication-ready package	Pre-Fabrication	Construction Work Pack (CWP)
D-10	Weld Maps	Identification of weld types and locations	Pre-Fabrication	Construction Work Pack (CWP)
D-11	Quality Close-Out Dossier Template	Defined structure for fabrication quality records	Pre-Fabrication	Quality Close-Out Dossier Template
D-12	Review of WPS & Welder Qualifications	Approval records	Fabrication Phase	Quality Close-Out Dossier
D-13	Review of Material Certificates	Traceability verification	Fabrication Phase	Quality Close-Out Dossier
D-14	Review of NDT Reports	Verification of weld integrity	Fabrication Phase	Quality Close-Out Dossier
D-15	Review of Dimensional Inspection Reports	Tolerance verification	Fabrication Phase	Quality Close-Out Dossier
D-16	Review of Coating Inspection Records	DFT and surface prep verification	Fabrication Phase	Quality Close-Out Dossier
D-17	Approved Deviation Register (if applicable)	Record of approved technical deviations	As Required	Quality Close-Out Dossier
D-18	As-Built Drawings	Final issued drawings reflecting fabricated condition	Close-Out	Quality Close-Out Dossier
D-19	Approved Quality Close-Out Dossier (Per Unit)	Complete dossier for each of the 5 units	Close-Out	Quality Close-Out Dossier
D-20	Engineering Compliance Statement (Per Unit)	Formal certification of structural compliance	Close-Out	Engineering Compliance Certificate

11 IN-SCOPE

The scope of this appointment includes the complete engineering, documentation, technical assurance, and certification services required to deliver five (5) offshore-duty Vessel to Gantry Transition Stair Assemblies suitable for fabrication in-country.

The Engineering Design House shall be responsible for:

- Full structural design of the stair assemblies.
- Development of detailed fabrication drawings (Issued for Construction).
- Structural calculations and lifting verification.
- Development of corrosion detailing and coating specification.
- Preparation of a complete Construction Work Pack (CWP).
- Preparation of a project-specific Inspection & Test Plan (ITP).
- Definition of Quality Close-Out Dossier requirements.
- Remote technical oversight of fabrication activities.
- Review and approval of fabrication quality records.
- Review and approval of deviations (where applicable).
- Issuance of Engineering Compliance Statement for each of the five (5) units.
- Confirmation that each unit meets the defined design requirements and intended service conditions.

The Engineering Design House shall remain responsible for the adequacy of the structural design and technical compliance of the final assemblies.

12 OUT-OF-SCOPE

Unless expressly stated within this Scope of Work, the following activities are excluded from the Engineering Design House appointment:

- Physical fabrication of the stair assemblies.
- Supply of materials or procurement of steel.
- Execution of welding, coating, or assembly works.
- On-site construction or installation activities. Responsibility for fabrication workmanship remains with the in-country fabricator.
- Civil works or modifications to the quayside.
- Modifications to vessel or gantry structures.
- Load-out, transport, or lifting operations.
- Long-term maintenance or inspection services.
- Provision of lifting equipment.
- Commercial management of the in-country fabricator.

The Engineering Design House shall provide remote technical oversight only and shall not be responsible for direct supervision of site works unless separately agreed.

Any service not expressly defined as In-Scope shall be deemed Out-of-Scope.

13 ACCEPTANCE CRITERIA

Acceptance Criteria Schedule:

REF	ACCEPTANCE REQUIREMENT	EVIDENCE REQUIRED	APPLICABLE TO
AC-01	All design deliverables submitted	Approved GA drawings, IFC drawings, structural calculations	Project
AC-02	Construction Work Pack (CWP) issued	Issued for Construction (IFC) package	Project
AC-03	Inspection & Test Plan (ITP) issued	Approved ITP document	Project
AC-04	Corrosion & Coating Specification issued	Approved coating specification	Project
AC-05	Quality Close-Out Dossier template issued	Approved dossier template	Project
AC-06	Fabrication documentation reviewed	Approved WPS, welder qualifications, material certs	Per Unit
AC-07	Inspection records reviewed and accepted	NDT, dimensional, coating inspection records	Per Unit
AC-08	All deviations assessed and documented	Approved deviation register (if applicable)	Per Unit
AC-09	Complete Quality Close-Out Dossier approved	Compiled and signed-off dossier	Per Unit
AC-10	Engineering Compliance Statement issued	Formal signed certification	Per Unit

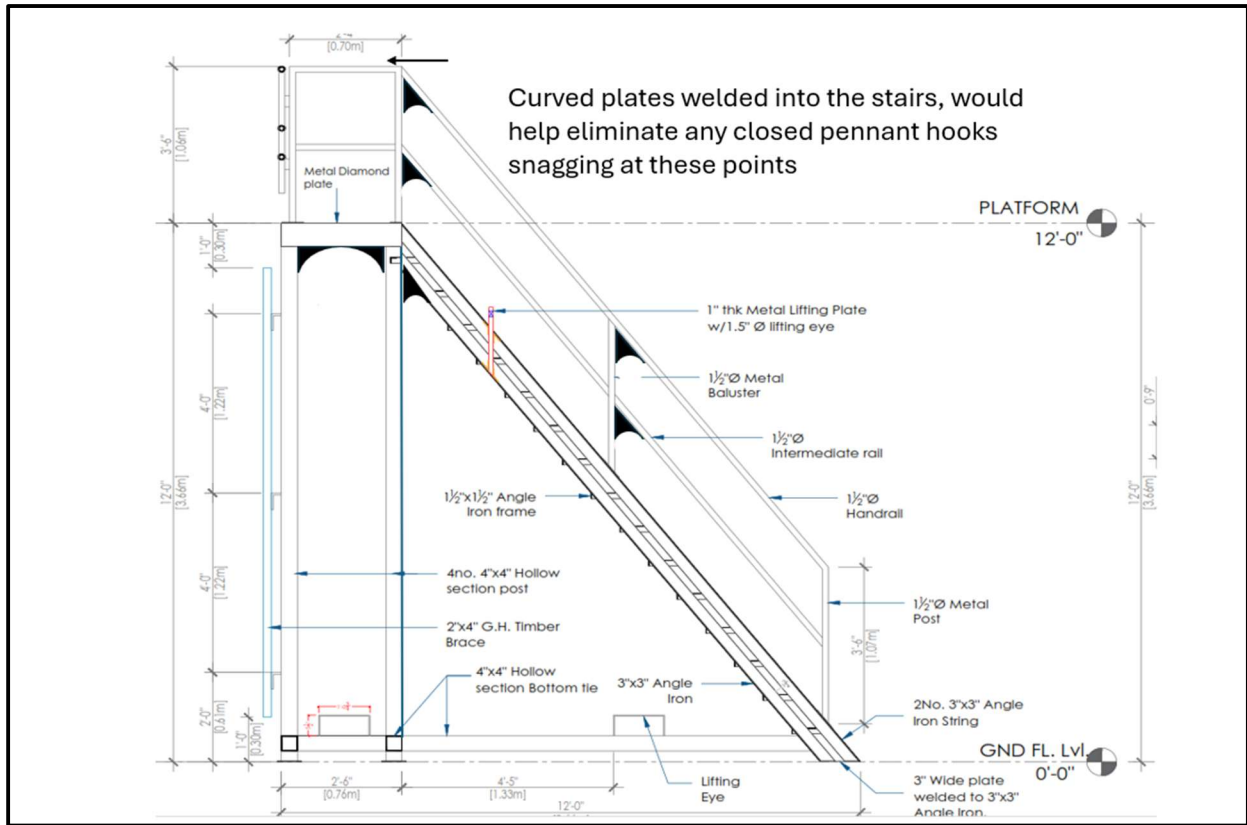
Completion Definition:

Final acceptance of the Engineering Design House services shall only be granted upon issuance of Engineering Compliance Statements for all five (5) stair assemblies and approval of the corresponding Quality Close-Out Dossiers.

14 APPENDICES

APPENDIX	TITLE
Appendix A	Existing Arrangement Drawings
Appendix B	Site Photographs – Existing Structure

Note: In the event of conflict between this Scope of Work and the Appendices, the Scope of Work shall take precedence unless otherwise formally agreed.



SITE LIFTING COORDINATOR DESIGN IMPROVEMENT RECOMMENDATIONS.

APPENDIX B – SITE PHOTOGRAPHS, EXISTING STRUCTURE



GANTRY CRANE FROM BERTH TO STAIR ASSEMBLY, TO BE REPLACED



**SELECTION OF EXISTING STAIR PHOTOS SHOWING EARLY ONSET AND CURRENT STATE OF
CORROSION AFTER 2 YEARS SERVICE**