SECTION C – STATEMENT of WORK

Frankfurt, Germany

Replacement and Installation of Exit Signs and Emergency Egress Lighting

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U.S. CONSULATE GERNERAL FRANKFURT, GERMANY
FACILITY MANAGEMENT

PART ONE – GENERAL

C.1.1 SUMMARY:

The U.S. Consulate General Frankfurt has a requirement to Replacement and Installation of Exit Signs and Emergency Egress Lighting

A. located at the Joachim-Becher-Straße 19 and AmConGen Frankfurt, Gießener Straße 30. The Contractor shall furnish all materials, equipment, and labor required to complete the work. The proposed scope of work includes, but is not limited to, the following:

1. Replacement and Installation of Exit Signs and Emergency Egress Lighting

The project consists of the replacement, installation, testing, commissioning, and documentation of emergency exit signs and emergency egress lighting systems throughout multiple Consulate facilities. The Contractor shall provide all labor, materials, equipment, supervision, transportation, and services necessary to deliver a complete, fully operational, and code-compliant installation.

The scope includes a detailed site survey, assessment and documentation of existing conditions, removal and disposal of existing fixtures, installation of new LED exit signs and emergency luminaires, electrical modifications, firestopping of penetrations, system testing, commissioning, labeling, and final cleanup. All work shall comply with applicable U.S. codes and standards, including NEC (NFPA 70), NFPA 101, NFPA 72, OSHA requirements, UL 924, the International Building Code (IBC), and local Authority Having Jurisdiction (AHJ) requirements.

As the project is located in Germany, the Contractor shall also ensure compliance with all applicable German and European regulations and standards, including, where applicable, DIN EN 1838 (Emergency Lighting), DIN EN 50172 / VDE 0108-100 (Emergency Escape Lighting Systems), DIN VDE electrical installation standards, the German Workplace Ordinance (ArbStättV), Technical Rules for Workplaces (ASR A2.3 – Escape Routes and Emergency Exits), local building regulations, and fire protection requirements.

The Contractor shall perform functional testing, emergency operation verification, illumination measurements, and compliance checks to ensure that all installed systems meet life-safety and emergency egress requirements. Upon completion, comprehensive closeout documentation shall be provided, including as-built drawings, test reports, circuit schedules, product data sheets, warranties, maintenance manuals, and an updated asset inventory.

Due to the work being performed within an active Consulate facility, strict security and access procedures shall apply. The Contractor must demonstrate relevant experience in government, diplomatic, institutional, or high-security facilities, employ qualified and licensed personnel, and coordinate all activities with facility management and security representatives. Final acceptance will be subject to successful completion of all work, testing, documentation, correction of deficiencies, and written approval by the Contracting Officer or Owner Representative.

C.1.2 SUBMITTALS:

A. Contractor's executed insurance certificate.
B. Contractor’s crew individual identification information for visitor access requests.
C. Submit list of all subcontractors with evidence of subcontractor's insurance coverage.

D. Project schedule showing work phasing and proposed daily progress.
E. Construction Accident Prevention Plan (CAPP)
F. Material manufacturers and accessory product data sheets in accordance with part two.
G. Shop Drawings and calculations.
H. Warranty: The Contractor shall provide a written one-year workmanship warranty after date of substantial completion to cover all elements of work to be free of defects. Manufacturer's standard material/equipment warranties are to be provided for all new items.

C.1.3 SUBSTITUTIONS AND PRODUCT OPTIONS:

A. Contractor's Representation: Request for substitution constitutes a representation that Contractor:
   1. Has investigated proposed product and determined that it is equal to or superior in all respects to that specified.
   2. Shall coordinate installation of accepted substitution into Work and make such other changes as may be required for Work to be complete in all respects.
   3. Waives all claims for additional costs, under his responsibility, related to substitution, which subsequently becomes apparent.
   4. If substitution is not approved or accepted, Contractor shall furnish specified product.

B. Substitutions:
   1. During Solicitation, only written requests for substitutions of products in place of those specified will be considered. Such requests must be received at least two weeks prior to Proposal Date. Requests received after that time will not be considered. Approval of substitutions will be set forth in an Amendment.
   2. Requests for substitutions supported with complete data, drawings, and appropriate samples shall include data listed below:
      a. Product description, performance and test data, and applicable reference standards.
      b. Changes required in other elements of Work because of substitution.
      c. Effect on construction schedule.

C. Product Options: For products specified by naming several products or manufacturers, select any product and manufacturer named.

C.1.4 CONTRACT ADMINISTRTION

A. The Contractor shall not conduct any work that is beyond this Statement of Work and accompanying contract documents unless directed in writing by the Contracting Officer (CO). Any work done by the Contractor beyond this SOW and accompanying contract documents without direction from the CO will be at the Contractor's own risk and at no cost to the Government.
B. The Contracting Officer shall provide a Notice to Proceed (NTP) to the Contractor. No work shall commence until the NTP is issued by the CO.
C. The Contracting Officer may designate more than one individual to serve as the Contracting Officer's Representative (COR). The Contractor will be furnished evidence of COR appointments, including explicit authority delegated to each COR and their responsibilities.
D. The U. S. Government does not make representations or warranties of whatsoever kind or nature, either expressed or implied, as to the quality, level of completion, accuracy, extent

of compliance with the standards, codes and requirements described or referred to in this SOW, or the extent of coordination between or among the documents provided to the Contractor.

E. The U. S. Government's review, approval, or acceptance of, nor payment for the services required under this contract shall be construed to operate as a waiver of any rights under this contract or any cause of action against the Contractor arising out of the performance of this contract.

F. The Contracting Officer has the authority to issue a temporary stop order during the execution of any phase of this SOW. This authority may be executed when the U. S. Government requires time for official functions or is in possession of specific credible information indicating that the lives of U. S. Government personnel are immediately threatened, and that the execution of the project will increase the U. S. Government's vulnerability. The Contractor shall promptly notify the CO that work has been stopped.

G. If any of the Contractor's services do not conform to the contract requirements, the COR may require the Contractor to perform the services again in conformity with the contract requirements. The U. S. Government may by contract or otherwise, perform the services and charge the Contractor any cost incurred by the U. S. Government that is directly related to the performance of such service or terminate the contract for default.

H. The U. S. Government has the right to terminate this contract for convenience at any time in whole, or from time to time, if the Contracting Officer determines it is in the interest of the U.S. Government.

I. All documentation produced for this project shall become the ownership of the U.S. Government at the completion of this project.

C.1.5 QUALITY CONTROL:

A. The Government has the right to inspect and test all services, to the extent practicable at all times and places during the work. Consulate Facility Management staff may perform full time quality assurance inspections and tests during construction to confirm the work is installed according to the Scope of Work.

B. The Contractor shall be responsible for the professional quality, technical accuracy, and the coordination of all construction and other services furnished under this contract. The Contractor shall, without additional compensation, correct or revise any errors or deficiencies in its construction and other services.

C. Maintain quality control over suppliers, manufacturers, products, services, site conditions, and workmanship to produce work of specified quality.

D. The Work shall be governed by the U.S. Consulate General Frankfurt, Germany. All work is to be in compliance with International Codes and standards, which includes the most recent published edition of the OBO Building code, National Fire Prevention Association (NFPA), International Fire Code (IFC), International Building Code (IBC) , International Mechanical Code (IMC), International Plumbing Code (IPC), National Electrical Installation Standards (NEiS), National Electrical Safety Code (NESC), Standard for Electrical Safety in the Workplace (NFPA-70E) and National Electric Code (NFPA-70) as amended by OBO, also are applicable. Should there be a discrepancy between the US Government Specifications and the applicable Building Code, the more stringent of the two shall govern.

E. The Contractor is responsible for compliance with all Building Codes; Work not in compliance with the Codes shall be deemed to be unacceptable.

F. Quality Management Plan (QMP). The Contractor shall submit a project specific QMP for review by the COR. The Contractor shall be responsible to meet the guidelines of the

QMP throughout the duration of work and shall be subject to the oversight of the Project Superintendent on all issues relating to project quality.

G. Project Management Plan (PMP). The Contractor shall establish and maintain a project specific PMP. This plan identifies the Contractor key team members and consultants participating in the project. The Contractor shall provide names, job titles, and contact information for each team member. The Contractor shall develop in coordination with the COR a comprehensive task outline identifying project milestones, meetings, presentations, submissions, and reviews with specific calendar dates in accordance with the Notice to Proceed (NTP) schedule.

H. The Contractor shall verify that all materials, equipment, and systems provide operational dependability. The Contractor assures the completed construction shall be easily maintained or replaced with readily available materials and services.

I. Any cost associated with services subcontracted by the Contractor shall be borne by and be the complete responsibility of the Contractor under the fixed price of this contract.

J. The Contractor shall be and remain liable to the U. S. Consulate in accordance with applicable law for all damages to the U. S. Consulate caused by the Contractor's negligent performance of any of the services furnished under this contract. The rights and remedies for the U. S. Consulate provided for under this contract are in addition to any other rights and remedies provided by law.

C.1.6 STORAGE OF MATERIALS:

A. Proper storage of materials is the sole responsibility of Contractor. Keep all labels intact and legible, clearly showing the product, manufacturer, and other pertinent information.

B. Store materials on site. Cover and protect materials subject to damage by weather, including during transit. Stored materials shall be available for inspection.

C. Store flammable and volatile liquids in sealed containers located a minimum of 20 feet from existing buildings.

D. Liquid products shall be delivered sealed, in original containers. Store roll goods in an upright position.

E. Secure equipment, material, and debris to prevent movement by wind or other elements.

F. Hazardous Materials that present physical or health hazards, including but not limited to, flammable, explosive, corrosive, toxic, reactive, or unstable substances, as well as any operations that create contamination inside an occupied building (e.g., dust from demolition, paints, solvents, etc.). The use of hazardous materials or work that generates hazardous conditions must have a control plan submitted to and approved by the COR.

C.1.7 TEMPORARY FACILITIES:

A. The Contractor shall be responsible for connection of temporary utilities to existing utilities including water and power lines. All temporary connections to local water and power lines shall be coordinated with the COR. The Contractor shall pay all costs incurred in connecting, converting, and transferring the utilities to the work. The Contractor shall be responsible for making connections including providing back flow preventer devices on connections to domestic water lines, providing transformers, and for disconnections.

B. Temporary Water:

1. Make arrangements with Consulate for water required for construction. Consulate will pay for cost of water.
2. Coordinate all water service disruptions with the Facility Manager a minimum of 48hrs in advance.
3. Provide hoses for conveyance.

C. Temporary Electrical
1. Electrical service is available adjacent to the project site. Service is 220V ac, 50Hz.
2. Arrange with the Consulate for temporary electrical service. The Consulate will pay energy charges for temporary power and lighting.
3. Notify the Consulate prior to each required interruption of mechanical or electrical services in the building.
4. Provide all necessary temporary wiring extensions and temporary lighting devices.

D. Temporary Ladders, Chutes, Scaffolds, Hoists and Cranes:
1. Furnish and maintain temporary ramps, scaffolds, hoists, or chutes as required for proper execution of Work.
2. Restrict debris removal to Consulate -approved area of building site.
3. Restrict location of equipment to areas as approved by the COR.
4. Such apparatus, equipment, and construction shall meet requirements of applicable federal, state, and local safety and labor laws.
5. Ladders are required to be non-conductive fiberglass construction with a load capacity (duty rating) of no less than 250 pounds (113kg).
6. Scaffolding:
   a. Initial Inspection: After the scaffolding is completed, it must be inspected by a qualified person to verify proper assembly and safe functionality. This inspection ensures compliance with all safety requirements and standards.
   b. Marking and Documentation: After the final inspection, the scaffolding must be clearly marked in a visible location (preferably at the access point). The label must include at least the following information:
      i. Whether the scaffolding is authorized for use or not
      ii. The name and signature of the authorized person who performed the inspection
      iii. The address and phone number of the scaffolding contractor
      iv. The type of scaffolding, load class, and width class
      v. Any usage restrictions
      vi. Warning notices
      vii. The date of inspection
   c. Scaffold users are required to conduct a daily visual inspection and, if necessary, a functional check by a qualified person before use. This inspection is to identify any obvious defects and ensure safe functionality based on the specific intended use. The inspection must be documented.

C.1.8 PROJECT PROCEDURES:

A. The Consulate will be occupied during the entire period of construction for the conduct of normal, daily operations. Contractor shall conduct his operations so as to ensure least inconvenience to Consulate occupants.

B. Contractor shall take precautions to avoid excessive noise or vibration that would disturb the occupants. When directed by the COR, Contractor shall perform certain operations at designated time of day or night in order to minimize disturbance.

C. Drawings: This scope of work (SOW) accompanies design drawings to comprise the project manual. Contractor is to field verify all drawings prior to the commencement of the work.

D. The Contractor shall identify a Project Site Manager who shall be responsible for the overall management of the project and shall represent the Contractor on the site during construction. The Project Site Manager is required to be German and English-speaking and shall be approved by the COR.

E. The Project Site Manager and Safety Representative shall attend all project meetings, prepare weekly status update reports on the project and submit them to the COR. Status reports shall contain meeting minutes, accomplishments, arising concerns and proposed solutions, any proposed changed orders, personnel safety reports, and any other pertinent information required to report the progress of performance.

C.1.9 PROJECT SAFTEY:

A. Contractor is responsible for safety and shall comply with US Consulate General requirements, US Army Corp of Engineers (USACE) Safety Manual (EM 385-1-1), U.S. OSHA Regulations and all local labor laws, regulations, customs and practices pertaining to labor, safety and similar matters. Contractor shall prepare a Project Safety Plan to cover total project safety to be reviewed and approved by the Contracting Officer Representative (COR), and U.S. Consulate Post Occupational Safety and Health Officer (POSHO).

B. Contractor shall furnish Personal Protective Equipment (PPE) for each employee as required for the specific job type and in accordance with (IAW) relevant OSHA regulations.

C. All external personnel assigned to a project are required to participate in a mandatory safety briefing conducted by the POSHO Safety Office. This safety training may be scheduled no earlier than one week prior to the project start date and must be completed no later than the first day of the project, prior to the commencement of any work activities.

1. Personnel joining the team after the project has commenced must also complete this training before undertaking any tasks.
2. Work conducted without prior safety training is strictly prohibited and will be immediately suspended upon discovery.
3. The safety briefing must be formally requested by the COR through a "Work Order" submitted to the Safety Office. The request must include the following details:
    a. Project number or project name
    b. Contractor’s name
    c. Number of employees requiring training

C. Project Safety Plan (PSP): The Contractor shall prepare a PSP and shall designate a Safety Representative, who will be on site through the duration of the work, to be responsible for implementation of proper health, safety, and sanitation procedures throughout the contract period of performance. The Contractor shall promptly report all accidents resulting in lost time, disabling, or fatal injuries to the COR.

D. Electrical Safety: All electrical work must always be conducted in a "de-energized" state whenever possible and secured using the Lockout/Tagout (LOTO) system/procedure. Energized work must be handled with special precautions as outlined below.

1. Locks and tags must be applied to the equipment's energy isolation points or control panels. The tags must prominently display a warning message, along with the company name and the technician’s name. LOTO devices may only be removed by the individual who applied them.

2. Energized Work can only be performed if the supervisor requests an Energized Work Permit (EWP) at the Post Occupational Safety and Health Officer (POSHO) at least 24 hours prior to the scheduled start of work. The COR must assist the contractor in obtaining the necessary documents.

E. Hot Work: A hot work permit must be requested from the contractor at least 24 hours prior to the start of the work. The COR must assist the contractor in obtaining the necessary documents.

F. Confined Space: To enter confined spaces, the contractor must complete the required approval documents Post Approved Confined Spaces (PACS) entry permit at least 48 hours before entry and must be approved by the POSHO. The COR must assist the contractor in obtaining the necessary documents.

G. Fall Prevention: For fall heights, suitable protective measures must be taken to minimize the risk of accidents.
   1. Elimination (Physically remove the hazard)
   2. Substitution (Replace the hazard)
   3. Engineering Controls (Isolate people from Hazard)
   4. Administrative Controls (Change the way people work)
   5. PPE (Protect the worker with Personal Protective Equipment)

C.1.10 PROJECT SECURITY:

A. Personnel Clearances:
   1. A Visit Authorization Request (VAR) will be required for all contractor personnel prior to entry. Contractors shall forward the following information to the COR: full name, date and place of birth, Government Identification Card, name of employer, position/discipline.

B. Vehicle Clearances: Submit authorization requests, to include dates, vehicle type, license number, and driver name, for each motorized vehicular implement used on-site.

C. Access to Site: Contractor shall have limited access to or be admitted into the compound outside the areas designated for the project except with permission by the Consulate.

D. Procurement/Storage: Materials shall be procured by NON-SECURE or local means and stored NON-SECURE. All materials may be inspected prior to use on the project.

PART TWO - PRODUCTS

C.2.1 GENERAL

A. The Contractor shall provide all necessary labor, material, equipment, and components necessary to ensure the installation of complete and operable systems. No materials or labor will be supplied or furnished by the Consulate.

B. All materials and equipment incorporated into the project shall be new unless noted otherwise. The Contractor shall transport and safeguard all materials and equipment required for construction.

C. Equipment and materials shall be carefully handled, properly stored, and adequately protected to prevent damage before and during installation, in accordance with the manufacturer's recommendations. Damaged or defective items shall be replaced at Contractor expense. The Contractor will be responsible for security of all materials and equipment.

D. Receipt of Materials - Shipment of equipment, materials, and supplies shall be addressed to the Contractor - not the U. S. Consulate. The Contractor must be on hand to accept shipments; the U. S. Consulate will not accept shipments.

C.2.2 MATERIALS, EQUIPMENT, PRODUCTS, AND APPLICABLE STANDARDS

The Contractor shall furnish, deliver, and provide all materials, equipment, components, accessories, and incidental items required for a complete and fully operational emergency exit sign and egress lighting system installation.

A. Approved Equipment
Emergency Exit Sign / Egress Luminaire:

- GESS Lumina 2000/7
- Part Number: L07W1230L13-PIKSET
- Or approved equal

B. Material Supply Requirements
Materials shall include, but not be limited to:

- Exit sign luminaires
- Mounting hardware
- Brackets and anchors
- Conduit fittings
- Junction boxes
- Wiring and connectors
- Labels and identification tags
- Firestopping materials
- Miscellaneous installation accessories

C. Exit Sign Performance Requirements
Supplied fixtures shall meet the following minimum requirements:

- LED illumination
- Suitable for emergency egress applications
- Continuous operation capability
- UL 924 listed
- NFPA compliant
- NEC compliant
- Aluminum housing
- Minimum IP41 protection rating
- Directional pictogram panels included
- High visibility and low power consumption
- Suitable for connection to emergency power systems

D. Firestopping Materials
All firestopping materials shall be:

- UL listed
- Fire-rated
- Compatible with wall, floor, and ceiling assembly ratings
- Suitable for restoring penetrations to the original fire-resistance rating

E. Product Documentation
The Contractor shall provide the following product-related documentation:

- Product data sheets
- Manufacturer technical literature
- Warranty documentation
- Maintenance manuals

F. Applicable Codes, Standards, and Regulations

All materials, equipment, installation methods, testing activities, and completed work shall comply with the latest editions of the following codes, standards, and regulations.

U.S. Codes and Standards

National Electrical Code (NEC / NFPA 70), including but not limited to:

- NEC Article 110 – Requirements for Electrical Installations
- NEC Article 300 – Wiring Methods
- NEC Article 410 – Luminaires, Lampholders, and Lamps
- NEC Article 700 – Emergency Systems
- NEC Article 701 – Legally Required Standby Systems
- NEC Article 760 – Fire Alarm Systems

National Fire Protection Association (NFPA)

- NFPA 101 – Life Safety Code
- NFPA 72 – National Fire Alarm and Signaling Code

Additional U.S. Standards

- UL 924 – Emergency Lighting and Power Equipment
- OSHA Exit Route Requirements
- International Building Code (IBC), where applicable
- Local Authority Having Jurisdiction (AHJ) requirements

German and European Regulations and Standards

- DIN EN 1838 – Lighting Applications – Emergency Lighting
- DIN EN 60598-2-22 (VDE 0711-2-22) – Luminaires for Emergency Lighting
- DIN EN 50172 (VDE 0108-100) – Emergency Escape Lighting Systems
- DIN VDE 0100 Series – Low-Voltage Electrical Installations
- DIN VDE 0100-560 – Electrical Installations for Safety Services
- DIN VDE 0105-100 – Operation of Electrical Installations
- DIN EN ISO 7010 – Registered Safety Signs and Pictograms
- DIN 4844 Series – Safety Signs and Escape Route Markings
- DGUV Regulation 3 – Electrical Safety Inspections and Testing
- Applicable local building regulations and fire protection requirements
- Requirements of the local Authority Having Jurisdiction (AHJ)

In the event of conflicting requirements between U.S. standards and local regulations, the more stringent requirement shall apply unless otherwise directed by the Contracting Officer.

PART THREE – EXECUTION

C.3.1 CONSTRUCTION REQUIREMENTS

A. No construction shall begin until approvals of the Pre-Construction Submittals are accepted by the COR.

B. The Contractor shall be responsible for all required materials not provided by the Government, equipment and personnel to manage, administer, and supervise the project. All workmanship shall be of good quality and performed in a skillful manner as determined by the COR.

C. The Contractor will be provided with a storage and staging area as determined by the COR. The Contractor shall be responsible for restoring the area to its original condition at the completion of the work. The Contractor shall be responsible for repair of any damage incurred to buildings or pavement as a result of storage activities. The Contractor is responsible for obtaining any additional off compound storage areas as required.

D. The Contractor shall always keep the work area free from accumulation of waste materials. Upon completion, the Contractor shall remove any temporary facilities and leave the project site in a clean and orderly condition acceptable to the COR.

E. The Contractor shall perform the work at the site during the U. S. Consulate's normal workday hours, unless alternate work hours are agreed upon with the COR.

F. At the end of each workday, or notification of a temporary stop order, the Contractor shall lower and secure all temporary work platforms and/or harnesses. Contractor shall notify the COR of the temporary barricade locations. Beginning the next workday, the contractor shall remove the temporary barricades before continuing the project.

G. Protections and Damage Plan: The Contractor shall be responsible to protect all U.S. Government property to include: all furniture, furnishings, and interior and exterior architectural finishes from damage. Any damage caused by the Contractor to architectural interior and exterior finishes will be returned to original condition by the Contractor at Contractor expense. In addition to the architectural finishes, the Contractor shall protect all non-included mechanical and electrical equipment and controls from damage throughout the duration of work. Prior to commencing the work, the Contractor along with Consulate representatives shall survey the site that will be impacted by the project work and document existing conditions. It shall be the Contractor's responsibility to document in writing all pre-existing damaged surfaces prior to the start of the project work and to provide a copy of the documentation to the COR prior to project start.

H. Storm Protection - should warnings of wind of gale force or stronger be issued, the Contractor shall take every practicable precaution to minimize danger to persons, the work, and adjacent property. Precautions shall include, but not be limited to, closing all openings, removing all loose materials, tools, and equipment from exposed locations, and other temporary work.

I. Material Debris and Removal Plan - The Contractor shall keep the work area, including storage areas, free from accumulation of waste materials daily and comply with all federal, state, and local regulations pertaining to the storage, transportation, and disposal of waste materials. The Contractor shall not use the U. S. Government waste disposal facilities including garbage cans, trash piles, or dumpsters.

J. Landscape Restoration - The surfaces of all unpaved areas disturbed by construction activities shall be sodded with an approved grass native to the sodded area as approved by the COR. These shall include areas where existing pavement is removed, areas where excavation takes place, and areas where existing sod is killed or compacted by construction activities. Landscape shrubs killed or damaged by construction activities shall be replaced with same species and size.

C.3.2 INSTALLATION, TESTING, COMMISSIONING, DOCUMENTATION, AND CLOSEOUT

The Contractor shall provide all labor, supervision, materials, tools, transportation, permits, testing equipment, documentation, and incidentals necessary for the complete replacement, installation, testing, commissioning, and documentation of emergency exit signs and egress lighting systems.

A. Scope of Work

The scope of work includes, but is not limited to:

- Site survey and assessment
- Identification of existing exit signs requiring replacement
- Documentation of existing conditions
- Supply and installation of new exit signs
- Removal and disposal of existing fixtures
- Electrical installation and wiring

- Drilling and mounting works
- Functional and safety testing
- NEC/NFPA/DIN/VDE compliance verification
- Commissioning and startup
- Final cleanup
- Delivery of closeout documentation

B. Pre-Construction Site Survey

Field Investigation

Prior to commencement of work, the Contractor shall perform a complete field survey of all affected areas.

The survey shall include identification and documentation of:

- Existing exit sign locations
- Quantity of fixtures requiring replacement
- Fixture mounting type:
    - Wall-mounted
    - Ceiling-mounted
    - Pendant-mounted
- Existing electrical feeds
- Emergency circuits
- Conduit routing
- Structural mounting conditions
- Egress path visibility
- Required corrective actions
- ADA and life-safety considerations where applicable

Documentation Requirements

Excel (XLS/XLSX) Inventory Report including:

- Building name
- Floor level
- Room or area designation
- Fixture identification number
- Existing fixture type
- New fixture type
- Mounting configuration
- Circuit designation
- Operational status
- Deficiencies noted
- Photo reference number

Written Assessment Report including:

- Existing conditions summary
- Deficiency list
- NEC/NFPA/DIN/VDE compliance observations
- Recommended corrective actions
- Photographic documentation

C. Demolition and Removal

The Contractor shall remove existing exit signs and associated components including:

- Electrical disconnect and lockout/tagout
- Removal of fixtures
- Removal of abandoned hardware
- Removal of unused wiring where required
- Protection of adjacent finishes and equipment

All demolition shall be performed in accordance with OSHA safety regulations and applicable local safety requirements.
Removed materials shall be legally disposed of offsite.
D. Installation Work
General Installation Requirements
The Contractor shall install all exit signs complete and operational.
Installation work shall include:

- Wall or ceiling mounting
- Alignment with direction of egress
- Drilling and penetration works
- Installation of anchors and supports
- Fixture leveling and alignment
- Surface restoration after drilling

The Contractor shall perform all drilling and penetration work necessary for mounting and cable routing.
Any damage caused during installation shall be repaired at no additional cost.
Electrical Installation
The Contractor shall perform all electrical work including:

- Branch circuit connections
- Emergency power connections
- Wiring extensions
- Conduit modifications
- Junction box installation
- Grounding and bonding
- Circuit labeling
- Final terminations

All wiring methods shall comply with NEC and applicable DIN/VDE requirements.
Emergency Circuit Requirements
Emergency lighting circuits shall comply with NEC Article 700, DIN VDE 0100-560, and related emergency power requirements including:

- Dedicated emergency circuits
- Proper circuit identification
- Separation from normal power wiring
- Continuous availability of emergency power
- Proper transfer operation where applicable

E. Firestopping Requirements
All wall and ceiling penetrations shall be properly firestopped.
Firestopping materials shall be:

- UL listed
- Fire-rated
- Compatible with wall, floor, and ceiling assembly ratings

The Contractor shall restore all penetrations to their original fire-resistance rating.
F. Testing and Commissioning
General Testing
Upon completion of installation, the Contractor shall perform all required testing including:

- Visual inspection
- Functional testing
- Voltage verification
- Ground continuity testing
- Insulation testing
- Emergency operation testing
- Transfer operation testing

- Illumination verification
- Sign visibility verification

U.S. Compliance Testing

Testing shall include compliance verification with:

- NEC Article 700
- NFPA 101
- UL 924 operational requirements

Tests shall include:

- Simulated power failure test
- Minimum 30-second operational test
- Battery operation verification where applicable
- Emergency transfer functionality

German and European Compliance Verification

Testing shall additionally verify compliance, where applicable, with:

- DIN EN 1838
- DIN EN 50172
- DIN EN 60598-2-22
- DIN VDE 0100-560
- DIN VDE 0105-100
- DIN EN ISO 7010
- DIN 4844
- DGUV Regulation 3

Illumination Verification

The Contractor shall verify compliance with emergency lighting requirements per:

- NFPA 101
- NEC
- DIN EN 1838
- DIN EN 50172

Verification shall include:

- Minimum illumination levels
- Uniformity of illumination
- Visibility distance
- Proper directional indication
- Escape route visibility
- Pictogram compliance with DIN EN ISO 7010

Additional Testing Requirements

- Verification of emergency lighting illuminance levels
- Verification of illumination uniformity ratios
- Verification of emergency sign visibility distances
- Verification of battery autonomy and charging functions
- Verification of automatic operation during normal power failure
- Documentation of all test results and measured values

G. Labeling and Identification

All installed equipment shall be permanently labeled.

Labels shall include:

- Circuit identification
- Panel designation
- Emergency power designation
- Fixture identification number

Labels shall be machine printed and permanently affixed.

H. Closeout Documentation

Upon completion, the Contractor shall provide:

- As-built drawings
- Circuit schedules
- Testing reports
- Inspection reports
- NEC/NFPA/DIN/VDE compliance documentation
- Product data sheets
- Warranty documentation
- Maintenance manuals
- Final XLS/XLSX inventory
- Photo documentation

Documents shall be submitted electronically in:

- PDF format
- XLSX format
- DWG format (if applicable)

I. Cleaning and Waste Disposal

Upon completion of work, the Contractor shall:

- Remove all debris
- Clean all work areas
- Remove packaging materials
- Remove drilling dust
- Dispose of all waste legally
- Leave all areas broom clean

J. Security and Access Requirements

Because work will occur within an active Consulate facility, the Contractor shall comply with all security procedures including:

- Personnel background checks if required
- Escort requirements
- Restricted area access procedures
- Coordination with Consulate security personnel
- Work hour restrictions
- Noise and dust control measures

K. Contractor Qualifications and Experience Requirements

The Contractor shall demonstrate proven experience in performing electrical and life-safety system work within government, diplomatic, institutional, or high-security facilities.

Minimum qualifications include:

- Five (5) years documented experience in emergency egress lighting and exit sign systems
- Experience in active government, consulate, embassy, military, or similarly secured facilities
- Completion of at least three (3) comparable projects within the past five (5) years
- Familiarity with NEC, NFPA, OSHA, DIN, VDE, DGUV, and life-safety requirements
- Ability to work in occupied and operational facilities
- Experience coordinating with facility management and security personnel
- Properly licensed and qualified electrical personnel
- References for comparable projects upon request

The Owner reserves the right to reject contractors unable to demonstrate sufficient experience in high-security or government-related projects.

L. Final Acceptance

Final acceptance shall occur only after:

- Completion of all work
- Successful testing and commissioning
- Submission of all required documentation

- Correction of deficiencies
- Approval by the Contracting Officer or Owner Representative

The system shall not be considered accepted until written approval is issued.

C.3.10 FIELD QUALITY CONTROL

A. The Consulate or OBO may direct Contractor to stop work if results show materials being used do not comply with specified requirements or materials and accessories are not compatible. Contractor shall remove noncomplying materials from site, pay for testing, and reinstallation.

C.3.11 CLEANING and ADJUSTING

A. After completing maintenance and repairs, clean surrounding areas and surfaces.

B. During progress of work, remove discarded materials, rubbish, cans, and rags from site at end of each workday.

C. Reinstall all disconnected equipment after completion of the work. Reconnect pipe, conduit, wiring, and reactivation of the equipment to its original condition.

D. Correct any damage by cleaning, repairing, or replacing, as acceptable to the Consulate.

C.3.12 ACCEPTANCE TESTING and PROCEDURES

A. Operational Test: After electrical circuitry has been energized, confirm proper operation of all new and existing electrical devices. Remove malfunctioning units, replace with new units, and retest.

PART FOUR - SCHEDULE

C.4.1 PERIOD OF PERFORMANCE: Calendar days

A. The work shall be executed in a diligent manner in accordance with a negotiated firm fixed price and performance period as outlined below.

1.	Solicitation & Award of Contract:	
	a. Award	Zero Day
2.	Pre-Construction Submittals:	
	a. Insurance, Schedule, & Product Data:	20 days after Award
	b. Government Review:	10 days
3.	Material Procurement:	
	a. Material Order	20 days
	b. Material Shipping	20days
4.	Mobilization & Construction:	
	a. Crew Information	15 days in advance
	b. Scope of Work	10 days on-site
TOTAL PERIOD of PERFORMACE:		**365 days**

C.4.2 PROPOSAL SCHEDULE:

A. Proposals shall be evaluated based on total fixed cost and shall include materials, labor, project start-up expenses and worker incidentals, overhead, profit, taxes, and DBA Insurance as a complete project.

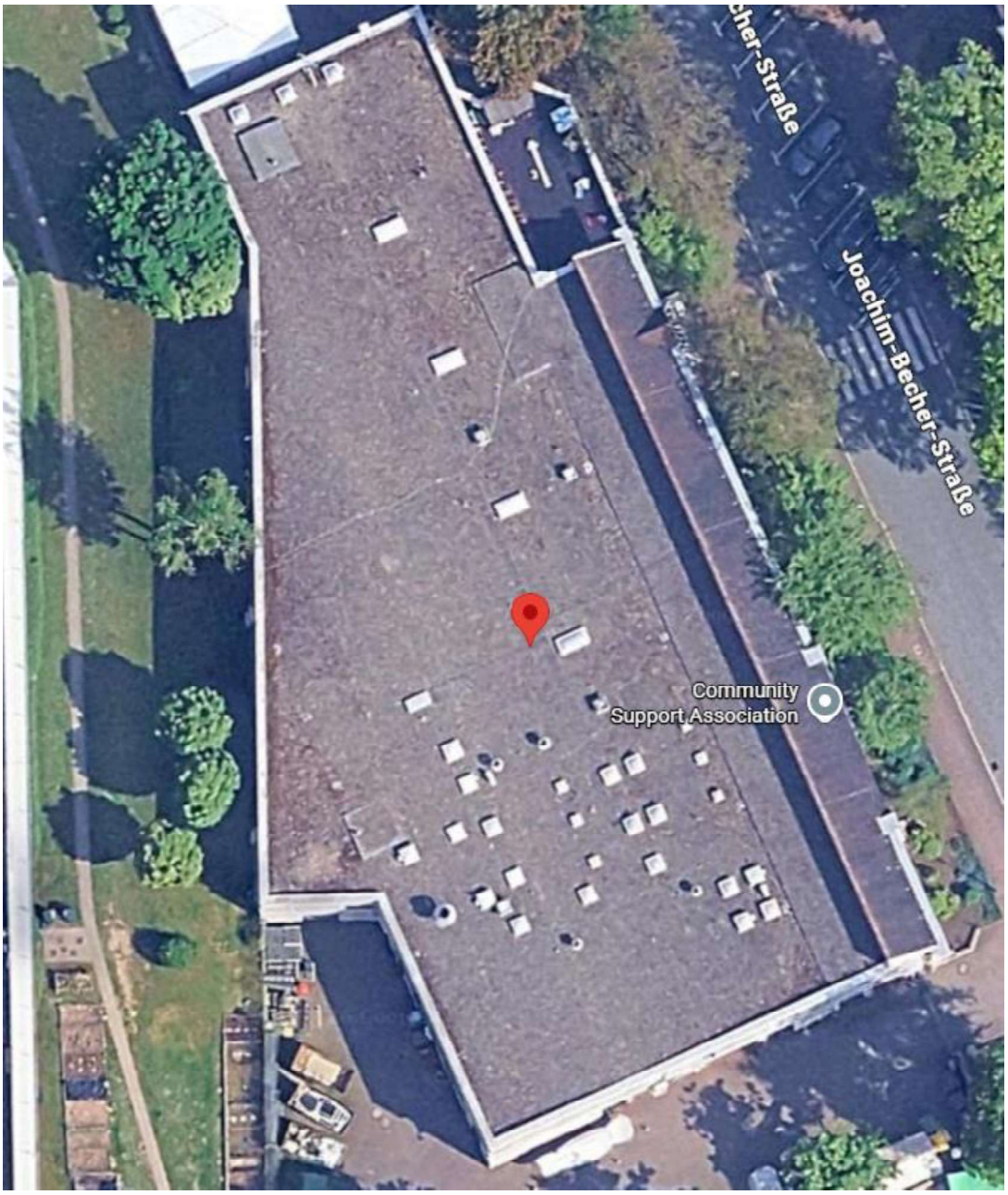
1. Labor
2. Shipping
3. Mobilization Expenses
2. Materials (provide breakdown)

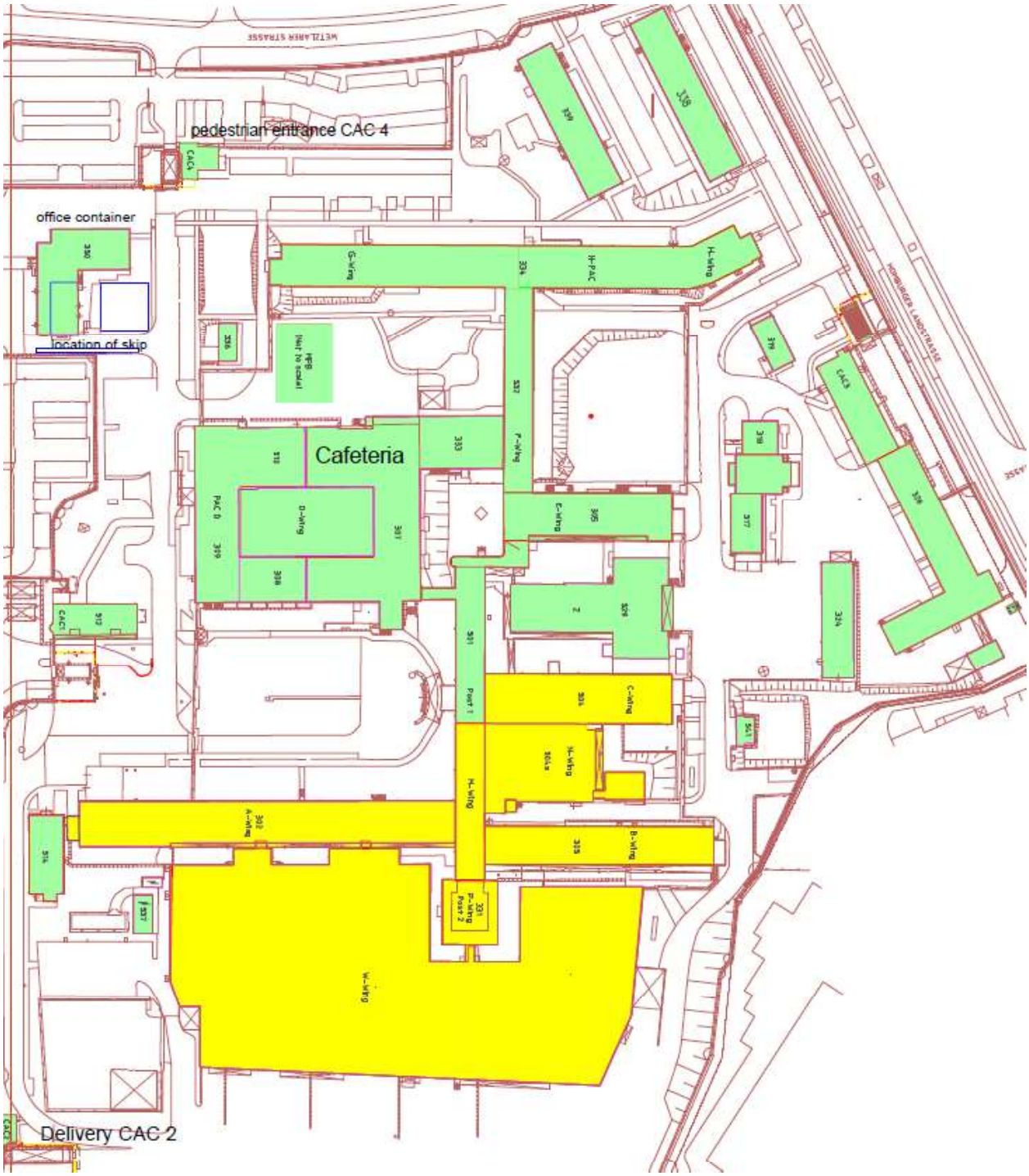
3. Overhead & Profit
4. Taxes
5. VAT (if applicable)
6. DBA Insurance

B. TOTAL REPLACEMENT AND DOCUMENTATION PROPOSAL: €_____

PART FIVE - DRAWINGS

C.5.1 SEE SEPERAT DRAWING PACKAGE




pedestrian entrance CAC 4
office container
location of skip
Cafeteria
Delivery CAC 2

END OF SOW