

U.S. Embassy
Kathmandu, Nepal

Date: February 14th, 2020

To: Prospective Quoters

Subject: Request for Quotations number 19NP-4020-Q-6244

Enclosed is a Request for Quotations (RFQ) for construction (Make Ready) of Temple House. If you would like to submit a quotation, follow the instructions of the solicitation, complete the required portions of the document, and submit it to the address shown on the Standard Form 1449 that follows this letter.

The U.S. Government intends to award a contract/purchase order to the responsible company submitting an acceptable quotation at the lowest price. We intend to award a contract/purchase order based on initial quotations, without holding discussions, although we may hold discussions with companies in the competitive range if there is a need to do so.

Quotations are due March 3rd, 2020

Sincerely,

A handwritten signature in blue ink, appearing to read "Scott McDow", with a long horizontal stroke extending to the right.

Scott McDow
Contracting Officer

Enclosure

SOLICITATION/CONTRACT/ORDER FOR COMMERCIAL ITEMS <i>OFFEROR TO COMPLETE BLOCKS No.17a, 23, 24, 26, 30a, 30 b, & 30 c</i>				1. REQUISITION NUMBER PR9016244		PAGE 1 OF 2				
2. CONTRACT NO.		3. AWARD/EFFECTIVE DATE		4. ORDER NUMBER		5. SOLICITATION NUMBER 19NP-4020-Q-6244				
7. FOR SOLICITATION INFORMATION CALL		a. NAME Suresh Maskey				b. TELEPHONE NUMBER(No collect calls) 423-4464		8. OFFER DUE DATE/ LOCAL TIME 03/03/2020 / 17:00 HRS		
9. ISSUED BY American Embassy Kathmandu Bramha Cottage, Narayan Gopal Sadak, Maharajgunj, Kathmandu				CODE		10. THIS ACQUISITION IS <input type="checkbox"/> UNRESTRICTED <input type="checkbox"/> SET ASIDE: % FOR <input type="checkbox"/> SMALL BUSINESS <input type="checkbox"/> EMERGING SMALL BUSINESS <input type="checkbox"/> HUBZONE SMALL BUSINESS SMALL BUSINESS <input type="checkbox"/> SERVICE-DISABLED VETERAN OWNED <input type="checkbox"/> 8(A) NAICS: SIZE STD:				
11. DELIVERY FOR FOB DESTINATION UNLESS BLOCK IS MARKED <input type="checkbox"/> SEE SCHEDULE				12. DISCOUNT		13a. THIS CONTRACT IS A RATED ORDER <input type="checkbox"/>				
						13b. RATING				
14. METHOD OF SOLICITATION X <input checked="" type="checkbox"/> RFQ <input type="checkbox"/> IFB <input type="checkbox"/> RFP				15. DELIVER TO: Code						
Suresh Maskey American Embassy Kathmandu Bramha Cottage, Narayan Gopal Sadak, Maharajgunj, Kathmandu Email ID: maskeys@state.gov				16. Administered by: General Services Officer American Embassy Kathmandu Bramha Cottage, Narayan Gopal Sadak, Maharajgunj, Kathmandu						
17a. CONTRACTOR/OFFEROR CODE				CILITY CODE		18a. PAYMENT WILL BE MADE BY Financial Management Officer American Embassy Kathmandu Bramha Cottage, Narayan Gopal Sadak, Maharajgunj, Kathmandu				
TELEPHONE NO:				18b. SUBMIT INVOICES TO ADDRESS SHOWN IN BLOCK 18a UNLESS BLOCK BELOW IS CHECKED <input type="checkbox"/> SEE ADDENDUM						
<input type="checkbox"/> 17b CHECK IF REMITTANCE IS DIFFERENT AND PUT SUCH ADDRESS IN OFFER										
19. ITEM NO.		20. SCHEDULE OF SUPPLIES/SERVICES				21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT	
1.		Construction (Make Ready) of Temple House (Use Reverse and/or Attach Additional Sheets as Necessary)				1	All			
25. ACCOUNTING AND APPROPRIATION DATA							26. TOTAL AWARD AMOUNT (For Govt. Use Only)			
<input type="checkbox"/> 27a.SOLICITATION INCORPORATES BY REFERENCE FAR 52.212-1, 52.212-4. FAR 52.212-3 AND 52.212-5 ARE ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.										
<input type="checkbox"/> 27b.CONTRACT/PURCHASE ORDER INCORPORATES BY REFERENCE FAR 52.212-4. FAR 52.212-5 IS ATTACHED. ADDENDA <input type="checkbox"/> ARE <input type="checkbox"/> ARE NOT ATTACHED.										
<input type="checkbox"/> 28. CONTRACTOR IS REQUIRED TO SIGN THIS DOCUMENT AND RETURN ____ COPIES TO ISSUING OFFICE. CONTRACTOR AGREES TO FURNISH AND DELIVER ALL ITEMS SET FORTH OR OTHERWISE IDENTIFIED ABOVE AND ON ANY ADDITIONAL SHEETS SUBJECT TO THE TERMS AND CONDITIONS SPECIFIED HEREIN.					<input type="checkbox"/> 29. AWARD OF CONTRACT: REF. _____ OFFER DATED _____. YOUR OFFER ON SOLICITATION (BLOCK 5), INCLUDING ANY ADDITIONS OR CHANGES WHICH ARE SET FORTH HEREIN, IS ACCEPTED AS TO ITEMS:					
30a. SIGNATURE OF OFFEROR/CONTRACTOR					31a. UNITED STATES OF AMERICA (SIGNATURE OF CONTRACTING OFFICER)					
30b. NAME AND TITLE OF SIGNER (TYPE OR PRINT)			30c. DATE SIGNED		31b. NAME OF CONTRACTING OFFICER (Type or Print)			31c. DATE SIGNED		
					Scott McDow					

19. ITEM NO.	20. SCHEDULE OF SUPPLIES/SERVICES	21. QUANTITY	22. UNIT	23. UNIT PRICE	24. AMOUNT

32a. QUANTITY IN COLUMN 21 HAS BEEN

RECEIVED INSPECTED ACCEPTED, AND CONFORMS TO THE CONTRACT, EXCEPT AS NOTED: _____

32b. SIGNATURE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		32c. DATE	32d. PRINTED NAME AND TITLE OF AUTHORIZED GOVERNMENT REPRESENTATIVE		
32e. MAILING ADDRESS OF AUTHORIZED GOVERNMENT REPRESENTATIVE		32f. TELEPHONE NUMBER OF AUTHORIZED GOVERNMENT REPRESENTATIVE			
		32g. E-MAIL OF AUTHORIZED GOVERNMENT REPRESENTATIVE			
33. SHIP NUMBER <input type="checkbox"/> PARTIAL <input type="checkbox"/> FINAL	34. VOUCHER NUMBER	35. AMOUNT VERIFIED CORRECT FOR	36. PAYMENT <input type="checkbox"/> COMPLETE <input type="checkbox"/> PARTIAL <input type="checkbox"/>		37. CHECK NUMBER
38. S/R ACCOUNT NO.	39. S/R VOUCHER NO.	40. PAID BY			
41.a. I CERTIFY THIS ACCOUNT IS CORRECT AND PROPER FOR PAYMENT			42a. RECEIVED BY (PRINT)		
41b. SIGNATURE AND TITLE OF CERTIFYING OFFICER		41c. DATE	42b. RECEIVED AT (Location)		
			42c. DATE REC'D (YY/MM/DD)		42d. TOTAL CONTAINERS

STANDARD FORM 1449 (REV. 3/2005) BACK

REQUEST FOR QUOTATIONS - CONSTRUCTION (MAKE READY)

A. PRICE

The Contractor shall complete all work, including furnishing all labor, material, equipment and services required under this purchase order for the following firm fixed price and within the time specified. This price shall include all labor, materials, all insurances, overhead and profit.

Description	Total Price in NPR
Construction (Make Ready) of Temple House	
Electrical Work	
Civil Work	
Safety Work	
Painting Work	
Air conditioner Installation Work	
Kitchen Remodel Work	
Miscellaneous	
Vat 13%	
Grand Total	

A.1 VALUE ADDED TAX

VALUE ADDED TAX (VAT). The Contractor shall include VAT as a separate charge on the Invoice and as a separate line item in Section B.

B. SCOPE OF WORK

The character and scope of the work are set forth in the contract. The Contractor shall furnish and install all materials required by this contract.

In case of differences between small and large-scale drawings, the latter will govern. Where a portion of the work is drawn in detail and the remainder of the work is indicated in outline, the parts drawn in detail shall apply also to all other portions of the work.

MAIN SCOPE OF WORK

GENERAL REQUIREMENTS

The U.S. Government (USG) has a leased property that requires to be updated, renovated, and upgraded to fit the needs and standards of the USG. This project will be known as the “**Temple House Remodel.**” The USG will be furnishing certain equipment and tools, which will be delineated within this Scope of Work (SOW). All other necessary materials, supplies, labor, transportation, safety equipment, all other working equipment, engineering and investigation, and most importantly, supervision will be furnished by the Contractor.

The work involved in this project includes security features, outdoor parking area, generator pad and surrounding wall, the addition of power poles and transformers, indoor wiring upgrade, flooring, addition of indoor walls, modification of indoor spaces, renovation of the kitchen and dining rooms, addition of bathrooms and roofing, modification of laundry facilities, and addition of safety features. This will be an involved, complicated, and comprehensive project requiring adequate personnel resources, competent working staff, and constant supervision and direction from the Contractor. It is for this reason the USG has decided to contract the work under the control of one Contractor. All work will be the responsibility of the winning Contractor. The Contractor may subcontract parts of the Temple House Remodel to other competent companies (all bidding Contractors will be provided with a list of Subcontractors recommended by the US Embassy - this list will consist of companies that have been used by the US Embassy and are known to provide services meeting standards, have adequate personnel, and the competency needed to perform the various works and disciplines included within this SOW.

Any and all work, agreements, payments, and payment terms between the Contractor and any/all Subcontractors used are the sole responsibility of the main Contractor of this project. At no time will the USG be legally responsible for, or beholding to, any Subcontractor used on the project. The work and actions of any Subcontractor hired/contracted by the main Contractor will always be the responsibility of the main Contractor. All Subcontractors proposed for use on this project will be included in the bids put for by prospective Contractors and will be reviewed and approved by the USG prior to the award of this contract.

The entirety of the Temple House Remodel needs to be completed by May 01, 2020. Unless the USG takes direct responsibility for any delays to work being completed, the Contractor will be penalized In Accordance With (IAW) the payment schedule of this contract. All authorized delays will be documented in writing and be signed by both the Contractor and the CO. Immediately notify the COR and CO in the event of any delays due to coordination with other work teams, lack of materials or equipment, and any other factor that may affect the completion date of this project.

I. BACKGROUND

The Temple House is an existing property that requires work to meet United States standards, electrical codes (NEC - National Electrical Codes), fire safety, security standards, and International Building Code (IBC) and International Residential Code (IRC) standards. In its current condition, the house needs various modifications and upgrades to fulfill these standards and regulatory requirements. The various modification work required includes civil, safety upgrades, security upgrades, electrical, flooring, plumbing, grading, fencing, and many other works as described within the attachments to this SOW.

II. SOLUTIONS

As stated above, the scope of nature of this project requires one Contractor to have overarching control and responsibility of this project. The extensive upgrades and work required need to be scheduled and executed under the direction of one Contractor, therefore providing the direction of all aspects of this project from one single source. This Contractor will be the Point of Contact (PoC) for all facets of work needed. If there are any questions, concerns, instances of work not meeting requirements, conflicting standards, etc., this one Contractor will be the responsible party and will be the PoC to the USG.

All work will be inspected and approved prior to subsequent work which requires the existing work or would serve to conceal or obscure the inspection process. Any work that is not inspected prior to additional or subsequent work being accomplished will need to have the part that was not inspected exposed, work re-accomplished, or any other steps necessary to allow the inspection to be carried out. All inspections shall be carried out as detailed below under the section on the Contracting Officer's Representative (COR), Government Technical Monitors (GTM), and Subject Matter Experts (SMEs).

III. DEFINITIONS AND TERMS

CO: Contracting Officer

COR: Contracting Officer's Representative

SME: Subject Matter Expert

FM: Facility Manager

RSO: Regional Security Officer

POSHO: Post Occupational Safety and Health Officer

APOSHO: Assistant Post Occupational Safety and Health Officer

PM: Project Manager

GTM: Government Technical Monitor

IV. COR, GTMs, and SMEs

A COR will be assigned to ensure quality assurance goals are met and to be the sole PoC for the Contractor to direct all question, concerns, and/or other communications to the USG. The COR is not authorized to change, increase or decrease, the work to be performed and/or the amount paid to the Contractor without the express approval of the CO. The COR can make onsite determinations regarding the work to be performed when onsite conditions require work arounds due to previously unknown conditions. However, as stated these decisions will never affect the agreed upon contracted price of the work or deviate from the standards required by this contact.

The GTMs and SMEs will perform inspections and onsite progress determinations regarding the work meeting the requirements of their expertise. A list of GTMs and SMEs that will be assisting the COR and CO during this contract will be provided/given to the Contractor before the project begins. However, any changes to this list will be afforded to the Contractor prior to any changes to the inspectors on this project. The GTMs and SMEs will report directly to the COR and/or CO.

V. FIXED PRICE PROPOSAL/SUBMISSION

The Contractor shall provide one fixed-priced Proposal for the completion of this project, which includes any/all payments due to subcontractors hired by the main Contractor. The firm, fixed price submitted will conform to the requirements of the Request for Quotes (RFQ) pricing submission. Any modification of this price will have to be approved by the CO and funded prior to any additional work is expended.

1. Design Criteria

All work shall be governed as per this SOW and its attachments, drawings and designs provided in attachments, and the requirements and/or building codes specified in the attachments. Adherence to these standards is the responsibility of the Contractor. Noncompliance to standards is the responsibility of the Contractor and can be used as justification to have the work re-accomplished, non-payment for unacceptable work, deductions to payments to have work re-accomplished, and dismissal of any subcontractor or main Contractor. Therefore, it is critical that Contractor fully understands any/all requirements and has any/all questions answered sufficiently before any work is accomplished. Immediately notify the COR and/or CO in the event of conflicting design criteria and/or delays due to coordination with other work teams. In general, the more stringent criteria shall be applied, subject to COR approval.

The Contractor is responsible for compliance with all design criteria. Work not in compliance shall be deemed unacceptable. Contractor should provide design, supply, install, fabrication, testing and commissioning of all US Embassy requirements. The Contracting Officer's Representative (COR) shall inspect and approve or reject all materials and equipment prior to their use.

In the case of conflicting requirements, the stricter/more stringent standard shall be followed. The Contractor needs to inform the COR of any instance of this occurring.

4. Work Execution

Any/all work executed toward the completion of this project shall be completed diligently and professionally. Protection of existing features, structures, materials, and/or workmanship of the Temple House, its property, and features of either is paramount. Examples include, but are not limited to, the following: Using painter's tape and drop cloths to protect all items/fixtures (light switches, outlets, flooring, furnishings, door handles, etc.) when painting or performing any work to include staining wood; floors/flooring will be protected by using fiber board (Masonite is preferred) of 3/16 inches thick and a drop cloth placed over clean floors; welding to be accomplished outside of the main structure when possible and wood sheets and non-flammable materials will be placed under any work to prevent damage to any surfaces; and debris will be promptly removed to ensure it doesn't damage any other feature, surface, floor, and/or tile, grass, stone, and/or concrete. These are just examples and are not an all-inclusive list of protective coverings to be employed at the worksite. Any questions to this requirement shall be addressed to the COR immediately.

Any items identified to be reused or returned to the building's owner need to be protected and presented to the USG whole and in usable condition.

Any damages are the responsibility of the Contractor to repair or recompense the USG to the satisfaction of the USG. The Contractor is also responsible for repairing any damage to adjacent properties as a result of its activities on the project site. If the damage is not repairable, the cost will be calculated by the FM or COR and presented to the CO. This amount may be deducted from the payment to the Contractor.

The Contractor is responsible for coordinating all phases and aspects of the total work effort to achieve the intended results, including the best overall visual effect of the works. Any questions on these aspects of the project shall be raised during the preproposal conference and/or immediately upon their identification during the execution of this project. The Contractor shall remove and replace any materials and/or workmanship found to be unsatisfactory or not in compliance.

In all aspects of the project, the Contractor must fully comply with construction safety and occupational health requirements as defined below.

The Contractor shall install/complete each element of the project only during weather conditions that will contribute to successful workmanship and allow for proper curing, protection, and concealment (e.g., outdoor painting, concrete work, or stone work will not be accomplished when rain is occurring or is imminent, etc.).

The Contractor shall schedule and perform Quality Control services during the progress of all works. Prior to the start of the project a comprehensive Quality Control inspection schedule will be developed and submitted by the Contractor. The COR and/or a GTM or SME will be present, conduct, and/or verify the satisfactory condition of the Quality Control inspections completed by the USG.

Upon completion of the project, the Contractor must return the area (to include lawn) to its original conditions, taking special care to repair or replace and disturbed features.

The contractor must submit a project plan as part of the proposal for the project. The project plan shall include a **Gantt Chart** and a complete list of materials in detail that will be used for the completion of this project. These materials are not to be substituted for during the works and will be used in the completion of the work. Any deviation from these materials will be approved in writing by the CO prior to their use.

5. Tools and Equipment

As stated previously, a comprehensive list of tools/equipment to be furnished by the USG shall be identified in each of the attachments. A comprehensive list shall be provided to the Contractor when Notice to Proceed is issued by the CO.

The USG may provide additional tools and/or equipment to the Contractor at the convenience of the USG. Any additional tools and/or equipment provided to the Contractor will be signed for by the Contractor and will become the responsibility of the Contractor. The USG will not be held at fault for any damages and accidents caused by the use, whether proper or improper, of USG properties.

Ultimately, it is the Contractor's responsibility to furnish the tools and equipment, and personnel necessary to complete the tasks at hand.

Explosive actuated tools are not permitted.

6. Work Hours

The contractor shall coordinate any changes to the work hours of the project with the COR at least two weeks in advance. The contractor is expected to work at least eight hours per day and will be able to work from 7:00 AM until 7:00 PM, 7 days a week.

7. Safety

- i. A **"Safety Plan"** must be submitted by the Contractor after contract is awarded but prior to the commencement of work. The Contractor should be solely responsible for risk assessments, managing health, safety and environmental issues associated with this project. The POSHO and/or APOSHO will review and approve the Contractor's Safety Plan.
- ii. The Contractor shall prepare and include an **Activity Hazard Analysis (AHA)** in the Safety Plan, for all high-hazard work, prior to the start of work (e.g., welding, lifting of materials in bulk, connection of high-voltage wiring, etc.). The contractor must document how the hazard controls will be implemented and maintained during the project. POSHO and/or A-POSHO will review and approve the Contractor's AHA. The AHA may also be referred to, or known as, the Job Hazard Analysis (JHA). A comprehensive AHA or separate AHA for each job may be submitted.
- iii. The Contractor shall refer to the U.S. Army Corps of Engineers safety requirements at:

https://www.publications.usace.army.mil/Portals/76/Publications/EngineerManuals/EM_385-1-1.pdf

and **Occupational Safety and Health Administration (OSHA)** standards online at:

www.osha.gov

as sources of minimum standards for the safety and health to be used/employed during/throughout this project.

- iv. The Contractor shall be responsible for conducting the work in a manner that ensures the safety of its employees and USG employees/personnel at the project site during the entire project.
- v. The Contractor shall be responsible for any mishaps, injuries or accidents which occur during the project. Any mishaps and near misses involving the contractor's employees must be reported to the COR within 24 hours. The COR will report all incidents to the POSHO and APOSHO.
- vi. Based on hazard assessments, the Contractor must provide or afford each affected employee **Personal Protective Equipment (PPE)** that will protect the employee from hazards. At a minimum PPE should consist of safety glasses and/or goggles for eye protection, hard hats for

- head protection, appropriate gloves, and closed-toe shoes. Closed shoes with steel toe are mandatory for employees using power actuated tools (e.g., a jack hammer, pick for excavation, axe for cutting trees, and for work that requires lifting heavy materials, etc.). Sandals or athletic shoes are not acceptable. PPE such as gloves, dust masks, earplugs, hard hats, safety shoes, and coveralls and face shields are recommended for contracted personnel. These items must be provided at the Contractor's expense. All contractor personnel shall wear PPEs as identified in the Safety Plan, and/or deemed necessary by the COR, FM/OSHA or A-OSHA.
- vii. Workers may use discretion if they feel unsafe in using the equipment.
 - viii. The Contractor must not create an unsafe or hostile work environment for its personnel.
 - ix. Any worker at an elevated and unprotected location above 1.8 meters (6 feet), with the exception of a portable ladder or balcony with railings, must be provided and utilize a **safety harness with lanyard**. These items must be in good condition and free from cuts and damages.
 - x. **Scaffoldings** should be provided by Contractors for working at heights where ladder use is unsafe. Full body fall harness with lanyard should also be used by the Contractor. Bamboo scaffolding is not allowed to be used at USG leased residences. The Contractor will use only COR and/or OSHA/AOSHA approved metal scaffoldings with platforms and bracing.
 - xi. **Welders** must have proper PPE: welding goggles/mask, leather gloves, apron or welding jacket that is fire rated. **Fire Watch** with dedicated fire extinguisher should be on the vicinity of work site. Fire curtain should be used not to expose welding sparks to others. Contractor must obtain Embassy's **Hot Work Permit** before commencing any **hot work** (cutting, grinding, welding). Hot work equipment must be in good condition. Fire safe materials will be placed under any welding or hot work to protect the surface under the work and prevent ignition of surfaces.
 - xii. The Contractor must follow **Embassy's Confined Space Program and Entry Procedures** and obtain **Post Approved Confined Space (PACS) Permit** before entering any confined space: underground/above ground water tanks, and manholes. The Contractor needs to coordinate with the COR to receive this permit.
 - xiii. **Safe Electrical Work Practices:** The Contractor must follow safe electrical work practices to prevent electric shock, arc flash, or other injuries resulting from either direct or indirect contact with electrical circuits or equipment which are or may be energized.
 - a. Work de-energized. Use Lock-Out/Tag-Out (LO/TO) while working on energized equipment/circuit. Inform all other affected personnel.
 - b. All electrical equipment such as drilling machines, welding machines, portable grinders, power strips, and electrical extension cords must be in good working condition, properly grounded, and be free from any cuts/defects on/in the insulation cover. Three pin plugs shall be used instead of live wires when plugging into any power outlets.
 - c. **Correctly connect electrical wires with the wire caps (also known as wire nuts) and do not use only electrical tape to make electrical bonds.**
 - d. Use 10mA Ground Fault Circuit Breakers (GFCIs) on power outlets/extension cable drums while working outdoors or in wet areas.
 - e. Use wooden or fiber ladders instead of metal ladders while working on electrical circuits.
 - xiv. **Respiratory Protection:** Approved respirator mask (half face/full face) shall be used while performing work that produces toxic organic vapors. For example: epoxy or spray-painting

work, using adhesives, using coil cleaners, using Hydrochloric acid (HCl) for cleaning, etc. The Contractor must provide respirator(s) with the correct type of cartridge to every employee (respirator should not be shared between employees); and masks/ respirators must pass the fit test for workers using them. The room/area where vaporous work is being conducted shall be well ventilated to prevent excess and prolonged exposure to vapors. Dust masks are not an acceptable replacement for respirators.

- xv. **Trenching and excavation work:** Excavation that is more than one-meter deep needs proper shoring to prevent cave-in of soil.
- xvi. **Chemicals and paint:** The Contract shall submit **Safety Data Sheets (SDSs)** of any/all chemicals and paints to be used in this project. This is part of the AHA and proper PPE should be selected and used as required by the SDS.
- xvii. **Housekeeping:** The Contractor shall keep the site clean and organized on a daily basis to prevent slip, trip, and fall hazards.
- xviii. The COR, GTM, SME, POSHO or APOSHO can stop work at any time if unsafe working conditions are observed or encountered. The Embassy Escort can also temporarily stop work for any unsafe action while one of the above responds to the worksite to examine the situation and make a final determination as to the safety of contracted personnel.
- xix. The Contractor's and its employees shall attend mandatory safety briefings and training provided by the US Embassy Safety team before the start of, or any phase thereof, the project.
- xx. The Contractor must have a competent person on-site for inspection of equipment, training workers in the safe use of equipment and the recognition of hazards related to their use, supervision, and identifying and correcting unsafe work practices for high hazard work.
- xxi. The Contractor must provide safety training:
 - a. Provide specific training to supervisory personnel and all craft workers of the Contractor and subcontractors in proper use and care of specific PPE.
 - b. All employees, including subcontractors, shall be trained and supervised by qualified persons to safely perform and recognize hazardous work operations.
 - c. The Contractor shall conduct safety meeting before starting work in high hazard areas.
- xxii. If more than 99 and less than 300 persons are employed, establish and equip, as directed by a licensed physician, a first aid station staffed fulltime with a professional nurse trained in emergency response. If medical clinics or hospitals are accessible within five minutes of the project site, the facilities may be approved by a licensed physician for use in lieu of a first aid station.

DOSAR 652.236-70 ADDITIONAL SAFETY MEASURES (OCT 2017)

In addition to the safety/accident prevention requirements of FAR 52.236-13, Accident Prevention Alternate I, the Contractor shall comply with the following additional safety measures:

(a) High risk activities. If the project contains any of the following high risk activities, the contractor shall follow the section in the latest edition, as of the date of the solicitation, of the U.S. Army Corps of Engineers Safety and Health manual, EM 385-1-1, that corresponds to the high risk activity. Before work may proceed, the contractor must obtain approval from the COR of the written safety plan required by

FAR 52.236-13, Accident Prevention Alternate I (see paragraph (f) of this clause), containing specific hazard mitigation and control techniques.

- (1) Scaffolding;
- (2) Work at heights above 1.8 meters;
- (3) Trenching or other excavation greater than one (1) meter in depth;
- (4) Earth-moving equipment and other large vehicles;
- (5) Cranes and rigging;
- (6) Welding or cutting and other hot work;
- (7) Partial or total demolition of a structure;

(8) Temporary wiring, use of portable electric tools, or other recognized electrical hazards. Temporary wiring and portable electric tools require the use of a ground fault circuit interrupter (GFCI) in the affected circuits; other electrical hazards may also require the use of a GFCI;

(9) Work in confined spaces (limited exits, potential for oxygen less than 19.5 percent or combustible atmosphere, potential for solid or liquid engulfment, or other hazards considered to be immediately dangerous to life or health such as water tanks, transformer vaults, sewers, cisterns, etc.);

(10) Hazardous materials—a material with a physical or health hazard including but not limited to, flammable, explosive, corrosive, toxic, reactive or unstable, or any operations, which creates any kind of contamination inside an occupied building such as dust from demolition activities, paints, solvents, etc.;
or

(11) Hazardous noise levels as required in EM 385-1 Section 5B or local standards if more restrictive.

(b) Safety and health requirements. The contractor and all subcontractors shall comply with the latest edition of the U.S. Army Corps of Engineers Safety and Health manual EM 385-1-1, or OSHA 29 CFR part 1910 or 1926 if no EM 385-1-1 requirements are applicable, and the accepted contractor's written safety program.

(c) Mishap reporting. The contractor is required to report immediately all mishaps to the COR and the contracting officer. A “mishap” is any event causing injury, disease or illness, death, material loss or property damage, or incident causing environmental contamination. The mishap reporting requirement shall include fires, explosions, hazardous materials contamination, and other similar incidents that may threaten people, property, and equipment.

(d) Records. The contractor shall maintain an accurate record on all mishaps incident to work performed under this contract resulting in death, traumatic injury, occupational disease, or damage to or theft of property, materials, supplies, or equipment. The contractor shall report this data in the manner prescribed by the contracting officer.

(e) Subcontracts. The Contractor shall insert this clause, including this paragraph (e), with appropriate changes in the designation of the parties, in subcontracts.

(f) Written program. The plan required by paragraph (f)(1) of the clause entitled "Accident Prevention Alternate I" shall be known as the Site Safety and Health Plan (SSHP) and shall address any activities listed in paragraph (a) of this clause, or as otherwise required by the contracting officer/COR.

(1) The SSHP shall be submitted at least 10 working days prior to commencing any activity at the site.

(2) The plan must address developing Activity Hazard Analysis (AHAs) for specific tasks. The AHAs shall define the activities being performed and identify the work sequences, the specific anticipated hazards, site conditions, equipment, materials, and the control measures to be implemented to eliminate or reduce each hazard to an acceptable level of risk. Work shall not begin until the AHA for the work activity has been accepted by the COR and discussed with all engaged in the activity, including the Contractor, subcontractor(s), and Government on-site representatives.

(3) The names of the Competent/Qualified Person(s) required for a particular activity (for example, excavations, scaffolding, fall protection, other activities as specified by EM 385-1-1) shall be identified and included in the AHA. Proof of their competency/qualification shall be submitted to the contracting officer or COR for acceptance prior to the start of that work activity. The AHA shall be reviewed and modified as necessary to address changing site conditions, operations, or change of competent/qualified person(s).

(End of clause)

[82 FR 58353, Dec. 12, 2017]

8. Workforce

The Contractor shall provide all supervision, and skilled and unskilled labor needed to perform the work necessary to complete this project within the required deadline. The Contractor shall be responsible for the total integration of effort and control of the works. The Contractor shall be responsible for planning, monitoring, coordinating, and controlling the works.

The Contractor shall provide a Project Superintendent with a **minimum of 5 years** professional employment record of demonstrated performance in comparable work. Project Superintendent shall have experience in all aspects of work execution.

The Contractor shall provide Foremen and other supplemental staff as necessary to perform the work within the timelines and quality standards specified. Staff shall demonstrate knowledge, skill, and experience with the construction methods, techniques, and standards required by the contract.

9. Accommodations

Toilets: The contractor shall provide adequate temporary toilets for the workers. The Contractor shall ensure they stay clean and usable. Provide self-contained, single-occupant, toilet units. Toilets within the house and property are not for contracted personnel to use and shall not be used to dispose of any construction materials.

Drinking water: The contractor shall provide safe drinking water for all workers. The water shall be adequately available and convenient for all personnel to access.

10. Subcontractors

Contractor shall be responsible for the conduct and workmanship of Subcontractors engaged in the Project, and for Subcontractors compliance with the terms of this SOW to include all codes, standards, regulations, and all attachments and drawings to this SOW. The Contractor is responsible for the condition and behavior of all Subcontractors while on USG leased property (Temple House worksite).

11. Modification to Contract

The Contractor shall not attempt to charge/invoice the USG for any costs beyond those described in their proposal for this project. Any changes in costing must be approved for in advance and the contract must be modified to pay for any additional fees. Only the CO may authorize any modification or added costs.

Any work performed by the Contractor beyond this SOW or its attachments without explicit authorization and modification to the contract by the CO will be at the Contractor's own risk and at no cost to the USG.

12. Stop Work

At any time during the Project, the CO reserves the right to Stop Work for protection of employees or visitors, security, or any other reason at his/her discretion. If a Stop Work order is issued that is not caused by the actions of the Contractor or subcontractors, and the Stop Work interferes with the completion of this project within the required deadlines, the Contractor shall not be held liable and any delays will be added on to the deadline of this project. However, delays caused by the Contractor or subcontractors will not affect the deadline of this project.

13. General Submittals

- a. The contractor is responsible to submit a safety plan for the work.
- b. The contractor is also responsible to submit a detailed construction schedule indicating when the various portions of the work will be commenced and completed within the required schedule in the form of a Gantt/Bar Chart. This bar chart shall be in sufficient detail to include all significant milestones and inspections.
- c. The contractor should provide detailed qualifications of all the key technical personnel.
- d. Cost details for each category of work, with itemized details for costing projections.
- e. Submit specifications and dimensions of all major materials (especially finish materials) to be used in the completion of the project.
- f. Previous experience along with a company profile for main Contractor and all subcontractors.
Note: A minimum of five (5) years of experience is required in relevant fields.

14. Close-out

Prior to final acceptance of any aspect of this project (i.e., individual inspections during the project) and the final acceptance of this project, the COR and/or CO will conduct Quality Assurance inspections to check compliance with the SOW.

15. Housekeeping

The contractor is responsible to clean up daily. The contractor is responsible to dispose of all dirt, concrete, stone, and construction debris outside of the property before the close of business each day. Any dirt, concrete, stone, and other construction debris may not be piled on the grounds. Immediately upon removal, it must be loaded into a truck and disposed of immediately once the vehicle is full. At the end of the day even partially loaded trucks must be removed from the Temple House compound and the contents disposed of properly at authorized dump sites.

The Contractor shall coordinate and supervise the protection, cleaning, and maintenance work at the Project Site during receipt, handling, storage, installation, curing, and similar stages of construction execution to affect minimum exposure to hazards by personnel. Damage to any aspect of the grounds or structures of the Temple House compound will be minimized by effective debris control and material handling. Any damages caused by the Contractor's negligence will be repaired at the Contractor's expense.

Where and when applicable, the Contractor will implement a suitable dust control program in the house and around the Project Site. This program will be designed to reduce dust generation/distribution by isolating areas that the work in that area will produce elevated levels of dust and debris.

16. Notification to Proceed

The contractor shall start the work as soon as possible after the issuance of the Notice to Proceed. However, prior to the commencement of any excavation work, the Contractor and the COR shall locate and mark any underground water or electric utilities or other lines which may be present. The contractor is required to provide orange spray paint to mark the ground for underground utility lines and is responsible for repairing damage to any identified lines.

17. Point of Contact

The COR shall be the main point of contact for this Project. The Contractor shall report to the COR on (a) status of the Project and meeting of the Project schedule, (b) any changes in Schedule, (c) 24 hour advance notice when any/all inspections are necessary, (d) accidents and safety issues, (d) disruptions to the property accessibility; and any/all other important information pertaining to the Project.

SMEs will be assigned for each trade (e.g., security, safety, civil, electrical, plumbing, etc.) who will assist the COR.

18. Contractor's Representative

The Contractor shall provide a representative on-site during all working hours that can communicate in English and has the authority to make decisions on behalf of the Contractor and subcontractors.

19. Site Security:

The Contractor shall comply with US Embassy security policy.

The Contractor shall prepare a list of all the names of personnel working for the contractor and any subcontractors, with national ID numbers, and submit the list to the CO and/or COR for the vetting of employees by the RSO. Employees are required to have a Nepal identification card to access the worksite.

The contractor shall also provide a list of all equipment, listing the manufacturer, model, serial number of all equipment to be used on this project prior to the commencement of any work. Any vehicles utilized by the contractor are also considered equipment. The contractor must provide make, year, model number, and license plate number. All vehicles will be inspected prior to entering and prior to leaving the premises.

The COR will assign a holding area for the equipment. Equipment, other than vehicles, should remain on site while in use during the project.

Any vehicle that is leaking oil will be immediately removed from the compound and any leaked fluids will be cleaned to the satisfaction of the COR.

The contractor must notify the COR in writing at least 24 hours in advance of the pending removal of any contractor owned equipment.

The contractor is responsible for securing working materials and equipment. Any damage to facilities or infrastructure, which occurs due to unsecure or improper storage of materials, to include damage caused by inadequate protection of existing features of the compound will be the responsibility of the Contractor to correct at no cost to the U.S. Government.

20. Coordination Meetings

Pre-Proposal Conference: The CO shall conduct an initial conference with interested parties to explain the requirements of the Project and answer questions as to how proposals should be developed and what costing data is required.

Pre-Construction Conference: Before initial construction begins, the CO shall conduct an initial construction conference on or near the date of the issuance of the Notification to Proceed. Agenda items shall include a review of the general plans, conditions, procedures, and requirements as shall be necessary for the effective scheduling and execution of the construction work. Further, all parties shall review security and material delivery requirements, personnel assigned, and contract communication procedures required for the Project.

Construction Coordination Meetings: The Contractor and COR will hold weekly construction coordination meetings to discuss schedule and status of outstanding issues. Weekly coordination meetings shall commence immediately upon mobilization to the Project Site. All parties shall seek the expeditious resolution of issues before they become problems. Progress of the work shall be reviewed. The Contractor shall revise, balance, and submit an updated project execution schedule if the submitted schedule changes at any time during the Project. The Contractor shall review this Project schedule continuously and shall notify the USG immediately if any changes need to be made. These coordination meetings will include, but are not limited to a review of:

- The status of continuing activities.
- Start dates of new activities since the last coordination meeting.
- Completion dates for any activities in progress.
- Activity schedule interruptions and the reasons for such.

- Activity completions.
- All safety related activities.
- Any upcoming inspections and dates due.

An activity will be considered complete only when it has been approved by the COR.

Meeting Minutes: The Contractor shall provide minutes of each meeting held under this contract the next working day after each construction coordination meeting. The COR will sign the meeting minutes upon agreeing to their accuracy. Final minutes signed by the COR and the Contractor will be submitted to the CO within three working days following the coordination meeting and shall become part of the final project record.

21. Defects in Work

Where the Contractor's Quality Assurance procedures, or those undertaken by or for the USG, disclose patent or latent defects in the works, the Contractor shall provide corrective actions. The Contractor shall seek to repair, restore, reconstruct, replace, or otherwise correct defects in the works to comply with the criteria of the SOW and contract. The corrective actions taken by the Contractor shall be satisfactory to, and accepted by, the COR.

The Contractor will provide reinspection or retesting of corrected work, and will repeat repairs and inspections/retesting until compliance is achieved.

Neither the required quality control procedure, nor detection of defects, nor correction of defects, nor the reinspection or retesting of corrected work, provides a basis for Contractor's claim for contract modification and/or additional compensation, or an assumption of, or the request of, an extension to the contract's deadline.

22. Delays

Delays that are found to be caused by the Contractor's actions or inactions shall not be a cause for a time extension to the contract completion date.

If the Contractor's execution of the works falls behind the accepted Project Execution Schedule, the Contractor shall take any and all steps necessary within the agreed work period parameters to improve progress. These attempts at recovery shall incur no additional cost to the USG. The Contractor shall execute the works diligently and shall seek to complete all works at or before the agreed upon contract completion date.

1. ATTACHMENTS TO THIS SOW

This SOW has nine (9) attachments or subcategories. The majority of these are separated and defined by individual trades and/or works within the totality of this Project and are not necessarily in the order that they are needed to be completed. Details of the works required are provided in each of the attachments. They are:

- i. Electrical Work
- ii. Civil Work
- iii. Safety Upgrade Work
- iv. Painting Work
- v. Air-conditioning Work
- vi. Kitchen Remodel

2. ADDITIONAL ATTACHMENTS AND GUIDELINES:

- a. Guideline to Security Upgrade in New House

Safety: POSHO Certification and SHEM Residential Safety, Health and Fire Awareness Checklist

SOW FOR ELECTRICAL WORK

1. SCOPE OF WORK

The contractor shall complete all the electrical work. The contractor shall provide all labor, materials, equipment and services, per plans and specifications to complete scope of work per. (NBC)207:2003, IS732:1989 (reaffirmed 2005), IEC standards and U. S. embassy standard. All necessary applications and permits required to complete this scope shall be included. This work requires contractor to supply a performance and payment bond for the contract value.

All work shall be completed by the SOW and referring to attached **drawings**. All material, quality of work shall be approved by COR. No modifications can be made without COR's prior approval.

- A. Distribution Transformer (Oil immersed)** - Supply, Delivery, Installation, testing and commissioning of 11 KV / 400 volts step down transformer complete with all the accessories and fittings for efficient and trouble-free operation.

1.	<p>Transformer:</p> <ul style="list-style-type: none">a. Codes and Standard: Transformer shall conform to Nepal Electricity Authority latest norms or/and Indian Standard IS: 2026-Part I to Part IV or NS 166 or IEC 76 which is applicable for designated places. NEA lab test report required.b. Rating: Selected transformer shall be of specified rating suitable for continuous operationc. Connections and vector group: Delta on High Voltage side and star on low voltage side with neutral terminal brought out for solid earthing corresponding to the Vector Symbol Dyn - 11.d. Tapping: 'OFF' load tap changing links on HV side. The tapping's to be provided for variation on HV side from + 5% to - 15% in steps of 2.5%. each.e. Temperature Rise: Continuously rated for full load, temperature rise not exceeding 45o C by thermometer in oil or 55 Deg C by resistancef. Cooling: Natural cooling by means of pressed/round tubes around transformer tank.g. Insulation: The transformer shall be oil insulated type.h. Winding: The transformer shall be copper conductor wound.i. Core: The magnetic core shall be made up of cold rolled grain oriented low loss steel stampingsj. Fittings and Accessories: The following accessories and fittings shall be provided.
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- a) Lifting Lugs: The arrangement for lifting the active part out of the transformer tank along with the cover by means of lifting lugs without disturbing the connections.
- b) Oil Conservator: The transformer to be provided with an oil conservator with welded end plates. It is to be bolted to the cover and can be dismantled for purpose of transport. It has to be provided with magnetic oil level gauge and an oil filling hole 1 1/4" BSF size with a cap, which can be used for filtering oil. For draining purpose, a plug shall be provided. A connection pipe between the conservator and the main tank is to be provided which projects inside the conservator and the main tank
- c) Air release Valve: An air release valve is to be provided on the top of the tank cover facilitate the release of the entrapped air and filling of oil.
- d) Breather: The transformer to be provided with an indicating dehydrating silica gel breather of sufficient capacity.
- e) Drain-cum-oil Filter Valves: The transformer to be provided with a drain-cum-oil filter valve of 1 1/4" BSF size at the bottom of the tank.
- f) Diagram and rating plate: Diagram and rating plate shall be provided indicating the details of transformer, connection diagram, vector group, tap changing diagram etc.
- g) Dial type thermometer for Oil (150 mm dia.) with maximum set pointer at 75 deg C and electrical contacts for electrical alarm at high temperature.
- h) Winding temperature indication and electrical contacts for trip / alarm.
- i) Buchholz relay of double float type with high gas pressure alarm & trip suitable for 24 volts DC supply.
- j) Filter valve of 1 1/4" BSF at top.
- k) Explosion vent.
- l) Disconnecting chamber shall be provided for cable termination.
- m) Outdoor type Marshalling box with interconnecting cables
- n) LV Cable box suitable for 4 Core copper x 95 sq.mm 1.1 kV XLPE/PVC (E) cable or L.V bus duct flange arrangement.
- k. Terminals:** The cable box with glands on H T side shall be suitable for 3 core XLPE cable/ or direct connection of ACSR Conductor. Flanges with cable box / bus duct on LT side shall be suitable for copper conductor armored cables / LT bus duct of appropriate size. All cable glands shall be earthed

	<p>l. Grounding (Earthing): Two separate earthing terminals to be provided at the bottom on both sides</p> <p>m. Drawings and Leaflets:</p> <ul style="list-style-type: none"> a) Operation and maintenance manual with complete instructions for the installation, operations, maintenance and repairs, circuit diagram, shall be provided with the transformer. b) Maximum Allowable Transformer Losses for copper wind, 100kVA 11/0.4 kV Distribution Transformer c) Maximum allowable losses for oil filled distribution transformers with highest voltage for equipment shall be as per NEA Latest norms d) No Load Loss @ 11kV: 290 Watts Load Loss @ 75 Degree Celsius: 1210 Watts Impedance: 4% <p>n. Measurement and Reporting of Transformer Losses</p> <p>Testing: The transformer shall be subject to the following tests at the factory before dispatching the same and test certificates shall be furnished.</p> <ul style="list-style-type: none"> a) Measurement of winding resistance. b) Ratio polarity and phase relationship. c) Impedance voltage. d) Load losses. e) No-load losses and no-load current. f) Insulation resistance. g) Induced over voltage withstand. h) Separate - source voltage withstand. i) Temperature rise. j) Di-electric strength of oil. <p>o. List of approved Manufacturers for the reference:</p> <p>Distribution Transformer - NEEK, ABC or equivalent L.T.Power Cables - Pioneer Cables, Junta Cables; Trishakti Cables or equivalent Molded Case Circuit Breaker - Legrand; Schneider; ABB or equivalent</p>
<p>2.</p>	<p>Supply install two poles on the ground- perform the excavation/ backfill work with concrete. (Double pole HT structure for 11KV main supply intake with 2 nos of 11m height steel tubular pole with necessary steel hardware to complete the task). For the Location of the installation of the pole and position of the transformer, as shown in the site plan drawing</p>

3.	Transformer shall mount on a two-pole platform above 16 feet from the ground. Platform/bracing/channels, anchor bolts as required for the transformer mounting standard.
4.	Supply, install 11 KV lightening arrestors- one set
5.	Supply, install 11 KV Drop Out fuse- one set
6.	Furnishing, installation and testing of the grounding system (two sets). Ground resistance should be less than or equal to 5 Ohms.
7.	Paint on utility poles with anti-corrosive paints.
8.	The supplier is responsible for lifting, shifting & handling the transformer to be installed.
9.	The Contractor is responsible to coordinate with NEA for the shutdown of HT line & connection the transformer to the 11kV line. Contractor will pay all relevant charges to NEA for this work.
10.	Supply, installation of Energy meter unit/Time -Off-Day (TOD) set.
11.	Cable connection work of the HT from HT line to primary terminal of the transformer and LV (Low Voltage) main load to the transformer (<i>detail of the cable given in C. Electrical block and site electrical work</i>)
12.	Supply, install, connection and commissioning of all the materials/equipment, necessary tools and labor/services are required to accomplish the task are to be supplied by the contractor. cross-linked polyethylene(XLPE) or insulated Aluminum conductor steel-reinforced(ACSR) conductor, Disc and Pin Insulator with spindle. High tension (HT) tape and necessary accessories.
13.	200A 4 pole (Molded case Circuit Breaker) MCCB Main switch (Breaker with 16 Standard Wire Gauge (SWG) Sheet metal waterproof enclosure for Transformer cable connection)
14.	Restore the electrical power.
15.	Summary report of the transformer and its installation, testing and commissioning work.

B. Installation, testing and commissioning work of Embassy supplied Diesel Generator(DG) set and Automatic Transfer Switch (ATS)panel (including excavation/ backfill work, trench depth should be minimum 3 feet). **Please see the drawing for the Locations.**

1.	Supply, installation, connection of 4 core,95 Sq.mm. copper armored cable and 16 pairs, 1.5 Sq. mm. copper control cable underground from DG set to ATS panel at electrical room.(<i>Leave enough cable for embassy technician to hook up</i>)
2.	Furnishing, installation and testing of the grounding system for DG set (neutral and body) and ATS (1200mm copper rod with chemical compound). Ground resistance should be less than or equal to 5 Ohms

3.	Supply and install two each of 2-inch PVC conduit on the Diesel Generator Pad
4.	Final hook up work on Generator and in the electrical room will be done by Embassy In-house technical team.

C. Supply, installation, connection, testing and commissioning of electrical work (New Installation) in Electrical room and site *(Including civil work- chipping, plastering, painting)*

1.	Supply 4 core, 95 Sq.mm. copper armored cable (40 meter), 200A 4 pole MCCB with enclosure a. Install 200A 4 pole MCCB with enclosure at Utility pole. b. Pull with extra cable, 4 core, 95 Sq.mm. copper armored cable from TOD meter breaker (200A 4 pole) to 200A 4 pole MCCB (Main breaker) at Electrical room <i>(including excavation/ backfill work, trench depth should be minimum 3 feet)</i>
2.	Supply 4 core, 95 Sq.mm. copper armored cable (40 meter), 200A 4 pole MCCB with enclosure. <i>(including excavation/ backfill work, trench depth should be minimum 3 feet, flag stone re-installation work shall it be similar as previous looks/finishing) Please see the drawing for the Locations.</i> a. Install 200A 4 pole MCCB with enclosure in Electrical room. b. Connect 4 core, 95 Sq.mm. copper armored cable from main breaker(200A/4P) at electrical room to main breaker of the distribution panel at basement of the main building <i>(including excavation/ backfill work, trench depth should be minimum 3 feet,)</i>
3.	Supply, installation and connection of Electrical Distribution Board (DB) in electrical and utility room. a. 4X6 Sq.mm. + 1x4 Sq. mm copper wire, 32 Amps/4P Miniature Circuit Breaker (MCB) from ATS panel to new electrical DB for electrical room supply. b. Upgrade the existing DB, electrical distribution system and electrical connection from new DB.
4.	Supply, install, connection of light switch, power outlets and 2 exhaust fans (8-inch metal fan with guard cover) one in the utility room and one electrical room. These power outlets should be connected with GFCI in the electrical DB <i>(Please see the drawing).</i>
5.	Supply, install, connection of 5X2.5 Sq.mm. copper wire from Electrical DB to compound/security wall light control (photocell control system) box supply.
6.	Supply, install, connection of 5X2.5 Sq.mm. copper wire from Electrical DB to a junction box near the pond for water filtration system.
7.	Furnishing, installation and testing of the grounding system for Main switch & Main DB Board (600mm X 600mm X 2.5mm copper plate with chemical compound). Ground resistance should be less than or equal to 5 Ohms.

D. Supply, installation, connection, testing and commissioning of electrical work in Main Building Electrical work (New Installation) – See details of cables and breakers in cables, circuit breaker table *(Including civil work- chipping, plastering, painting)* Please see drawings for work details:

1.	Main DB Panel with two compart (one for Main and floor breakers, another for basement DB and Utility (Electrical/appliances) DB) a. Building Main Breaker MCCB 100 A/4P
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	<p>b. Each floor Main Breaker DB MCCB 63 A/4P, DP/ SP MCB's</p> <p>c. Outside DB main breaker 50 Amps/4P, SP MCB's</p> <p>d. Basement and appliances DB main breaker 63A MCCB/4P, SP MCB's</p>						
2.	Outside DB Board with 50 Amps/4P and GFCI 30mA/25A and MCBs for External(outdoor)electrical power outlet circuit, water pump automation board supply, external top flood light circuit, guard room DB power (32 Amps TP).						
3.	Floor new DB Board with circuit breakers & GFCI, MCBs for First, Second and roof top.						
4.	Upgrade of the existing third floor (Laundry)DB, Guard room, Local toilet DB with including TP MCB, MCBs, GFCI.						
5.	Use existing Main panel (gray one) as pull box.						
6.	Supply, install, connection with electrical wiring for additional light fixture on the perimeter wall. All connections will be made with wire nuts and in an approved connection box.						
7.	Install, connection with electrical wiring for appliances (Dryer, Washing Machine, American water heater, water distiller, kitchen stove, air-conditioners which will be provided by USG).						
8.	<p>Install, connection with electrical wiring for all Air conditioners with individual recessed outlet near the unit, the cable shall be run from each floor DB.</p> <table border="1" data-bbox="264 968 1507 1178"> <tr> <td>Basement common/Store Rm- 2ea/20A/1.5ton</td> <td>2nd Fl BR (east/west side) -2ea /20A/1.5 ton</td> </tr> <tr> <td>Dining Room -1ea /20A/1 ton Guest BR -1ea /20A/1.5 ton</td> <td>2nd Fl Family / MBR room -2 ea /25A/2 ton 3rd Fl room -1ea /20A/1.5 ton</td> </tr> <tr> <td>Living Room -1ea /25A/2 ton</td> <td>Guard room -1ea /20A/1 ton</td> </tr> </table>	Basement common/Store Rm- 2ea /20A/1.5ton	2nd Fl BR (east/west side) -2ea /20A/1.5 ton	Dining Room -1ea /20A/1 ton Guest BR -1ea /20A/1.5 ton	2nd Fl Family / MBR room -2 ea /25A/2 ton 3rd Fl room -1ea /20A/1.5 ton	Living Room -1ea /25A/2 ton	Guard room -1ea /20A/1 ton
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Living Room -1ea /25A/2 ton	Guard room -1ea /20A/1 ton						
9.	Supply, install, connection the kitchen hood above the cooking range.						
10.	Supply, install, connection the dish washer underneath of the counter near the kitchen sink.						
11.	Supply, install, connection with electrical wiring for the water pump automation system (including board) from underground cistern and pump location to overhead tank. Control cable should be size of 3 core 1 Sq. mm copper flexible cable.						
12.	Supply, install, connection with electrical wiring for the Exhaust fan for all toilet/bathrooms with individual recessed outlet near the unit						
13.	<p>Supply, install, connection with electrical wiring: <i>(Please see the drawing)</i>.</p> <p>1. Basement</p> <p>a. Electrical main distribution panel, Basement DB, appliances DB</p> <p>b. Provision for two-way light control switch.</p> <p>c. Power outlet for two AC units, Ice machine, Refrigerator, Freezer, dry-wall partition, Emergency light</p>						

- d. Local toilet- Power outlet, Hot water geyser (20-liter capacity)
- e. Upgrade existing electrical DB

2. Kitchen

- a. 3 X 4 feet double LED tube light and cabinet light (in white/bright color)
- b. Outlets for kitchen counter (8 each), dish washer, water distiller, kitchen hood, emergency light, freezer. Exhaust fan(for water distiller).
- c. Relocate the switch box.
- d. Light switch re-arrangement with wiring of the lights outside of the kitchen.

3. Dining - Living room and Guest bed room

- a. Relocate the switch box.
- b. Power outlet for AC unit, exhaust fan in the bathroom
- c. Exhaust fan

4. Staircase - Lobby - Front door of the building, common bathroom

- a. Floor DB
- b. Provision for two-way light control of staircase, lobby - porch.
- c. Two power outlets for the video intercom system, bath exhaust fan
- d. HDPE pipe (25 Sq.mm) from inside of the front door to pedestrian door
- e. Exhaust fan in the common bathroom

5. Second floor - rooms

- a. Relocate the switch for outside light of each room
- b. Power outlet for AC units, exhaust fans in the bathrooms
- c. Exhaust fans

6. Third floor - Roof top

- a. Upgrade existing Electrical DB, New DB in the roof top.
- b. Relocate the switch of the lights, new light switch in new bathrooms
- c. Power outlet for AC unit, exhaust fan in the bathroom and laundry room, washing machine, Ironing purpose, outside/terrace, dryer machine
- d. Exhaust fans in the bathrooms and laundry room

	<p>e. 2 X 4 feet double LED tube light (in white/bright color)</p> <p>7. Outside of the Building (North side wall) - Outside electrical DB Board, External(outdoor) power outlet, water pump automation board with two pumps, Junction/Pull Box, external top flood light circuit switch.</p> <p>8. Electrical and utility room</p> <p>a. Main breaker with enclosure, cable terminal, New/upgrade existing Electrical DB</p> <p>b. Security light automation board, Emergency light</p> <p>c. light switch, power outlets and exhaust fans, power supply near/behind the pond,</p> <p>9. Guard room(post) - Main (Vehicle)entrance - Bathroom</p> <p>a. Upgrade existing Electrical DB</p> <p>b. Power outlet for AC unit, CCTV system, water boiler, micro oven, radio charger, hydraulic gate opener, toilet-exhaust fan, hot water geyser (20-liter capacity)</p> <p>c. HDPE pipe (25 Sq.mm) from guard room to two columns of the vehicle gate.</p> <p>d. Exhaust fan</p>
14.	Install, Pull and Junction boxes as required. And all connections will be made with correct size wire nuts for the wire size.
15.	Upgrading existing light and power outlet wiring. See in General electrical standard requirements
16.	All electrical wiring must be concealed /covered. <i>(Including civil work- chipping, plastering, painting)</i> . Please follow the Code-NBC 207 for the wiring system.
17.	Check all lighting, power circuit and make circuit diagram (assignment of all circuit breakers in English)

Note: Floor protection work:

- Contractor must supply labor and material required for covering the floor to prevent from damage during the construction work inside the building.
- Contractor must use at least 6mm thick plywood, tarpaulin and 4-6mm thick foam mat to cover the floor, wall, furniture's etc. during the work inside room of the building.

General electrical standard requirements for the electrical system inside the house.

A. Electrical System

	Requirement
1.	All distribution line should be labeled properly, and all distribution board should be covered by unbreakable Plexi- glass (4/5mm Thick)
2.	Security light automation board should be installed to control the security lights, which should

	be installed all around perimeter wall with max 8 ft. distance in between two light fixtures. All outdoor light fixtures and power outlets should be waterproof. Light should be CFL/LED white type. Security light needs to connect with automation system with proper three different phase.
3.	Need to follow Standard electrical distribution system of US Embassy Leased residence. Please see attached documents. COR will notify for the change of electrical distribution system as per site condition.
4.	Exhaust fan should be installed in each bathroom, laundry room, utility room, electrical room, above water distiller.
5.	Lighting fixtures large enough to install screw type (CFL/LED) bulbs. White light should be installed in all bathrooms, kitchen, utility/electrical room, passage, corridor and outside perimeter lights. Warm light should be installed in all bedrooms.

B. Cables (all cables should be copper cable)

	Requirement
1.	Cable from Main electrical DB to each floor DB should be 4 cores having cross-sectional area of 16 Sq. mm or 7/16 each core and 4 sq. mm for earthing wire.
2.	All the light circuit wiring must be wired with 3 x 3/22 or 1 sq. mm stranded wires.
3.	All the 15 amps round power socket wiring must be wired with 3 x 7/20 or 4 sq. mm stranded wires. Neutral wire should not be common for the power and light circuit.
4.	3 no. of (7/18 or 6 Sq. mm) dedicated wires to be pulled from appliances DB for the electric oven in the kitchen with GFCI 50 amp/100 mA.
5.	A dedicated circuit with 3 nos. of (7/20 or 4 Sq. mm) wires to be provided for the water distiller with 25-amp DP MCB and GFCI 25amp/10 mA as well as 25-amp DP MCB as an isolator; the location of the distiller as advised by the Embassy personnel.
6.	Separate dedicated circuit with 3 nos. 7/20 or 4 Sq. mm size cable to be provided to recessed outlet for A/C units.
7.	Separate circuits need to be provided for laundry room DB to provide supply for washer and dryer with 4 x10 Sq. mm dedicated wires pulled from the main DB. Cable for Dryer should be 3 no. of (7/18 or 6 Sq. mm)
8.	3 x 7/20 or 4 Sq.mm for American water heater form third floor DB (American water heater will be provided by US embassy).

C. Power Outlets

1.	All outlets should be 15 Amp, round type, switch combine with shutter. It shall be recessed and its brand shall be similar with existing installed. Distance between two outlet should be 7 feet.
2.	At least four outlets (3x circuits) in each bedroom, the office, the living room, and dining room (maximum permissible for common power outlets are two outlets / circuit).
3.	Two outlets in each bathroom (one for an exhaust fan which should be controlled by separate switch and one for general purpose at the counter of the bath vanity) – GFCI circuits.

4.	Outlet provision for emergency light (each stair landing, and one in the kitchen).
5.	Outlets in the laundry room for washer, one utility outlet, and one exhaust fan.
6.	At least eight outlets GFCI along the kitchen countertop. Additionally, one outlet for a refrigerator and one for a distiller (placement as discussed).
7.	Outlet for kitchen hood.
8.	Outlet for exhaust fan and two each for general purpose in utility, electrical room and three each for outside.
9.	Outlet for exhaust fan and hot water heater (geyser) in local toilet.
10.	Outlet for freezer and outlet for refrigerator
11.	Outlet provision for AC unit in all bedrooms, office, living room, dining room, guard room.
12.	Power outlet and switches with waterproof/ weatherproof covers at the roof top and all outdoor locations (SAFETY)

D. Safety

	Requirement
1.	Install ELCB/GFCIs that trip at 10 mA (recommended 10 mA) for wet locations (indoors or outdoors) and all kitchen countertop outlets at the outlet or the circuit breaker, bathroom outlets, laundry room outlets, water distiller outlets, water pump circuit, terrace and garage and any outdoor outlets. GFCI is also known as Earth Leakage Circuit Breaker (ELCB), Residual Current Device (RCD) or Residual-Current Circuit Breaker (RCCB).

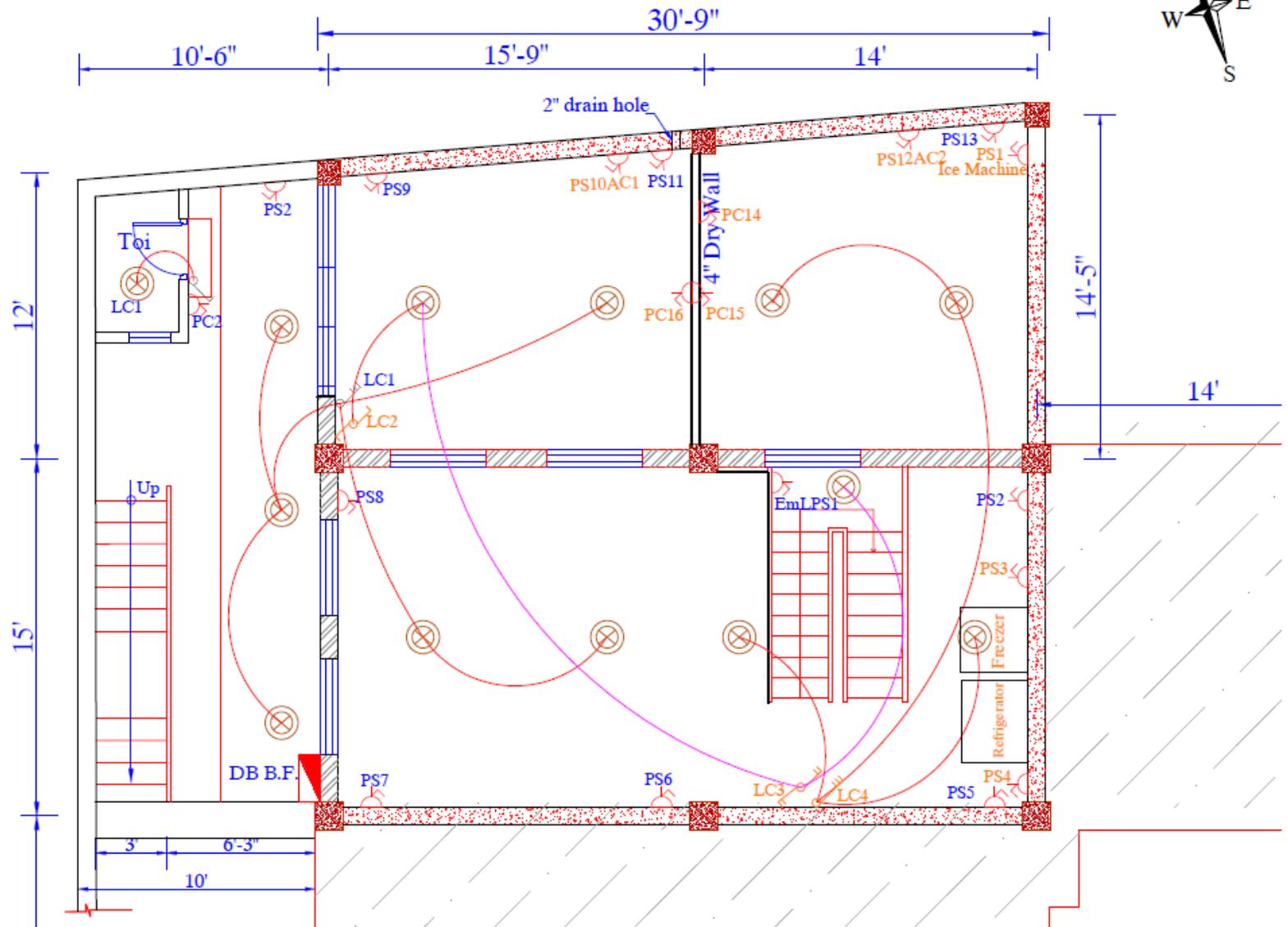
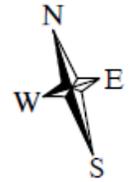
E. Grounding system for the building

	Requirement
1.	Ground Resistance should be less than 5 ohms. Inform Embassy FAC Supervisor before testing.
2.	Grounding bare conductor from Copper plate (600 X 600 X 3.15) mm plate to main electrical DB should be of 6 SWG. See plate earthing layout drawing for grounding procedure below on Attachment Section.
3.	Grounding bare conductor from main electrical DB to each floor DB should be of 10 SWG.
4.	Grounding wire should be run in all outlets and metallic body electrical fixtures and appliances.
5.	Grounding wire should be 4 sq. mm cross-sectional area for outlets.
6.	Grounding wire should be 1 sq. mm cross-sectional area for light fixtures.
7.	Grounding wire should be 6 sq. mm cross-sectional area for Cooking Range and Drier.
8.	Proper lightning arrestor needed to be install.

F. Size of Appliances for the reference

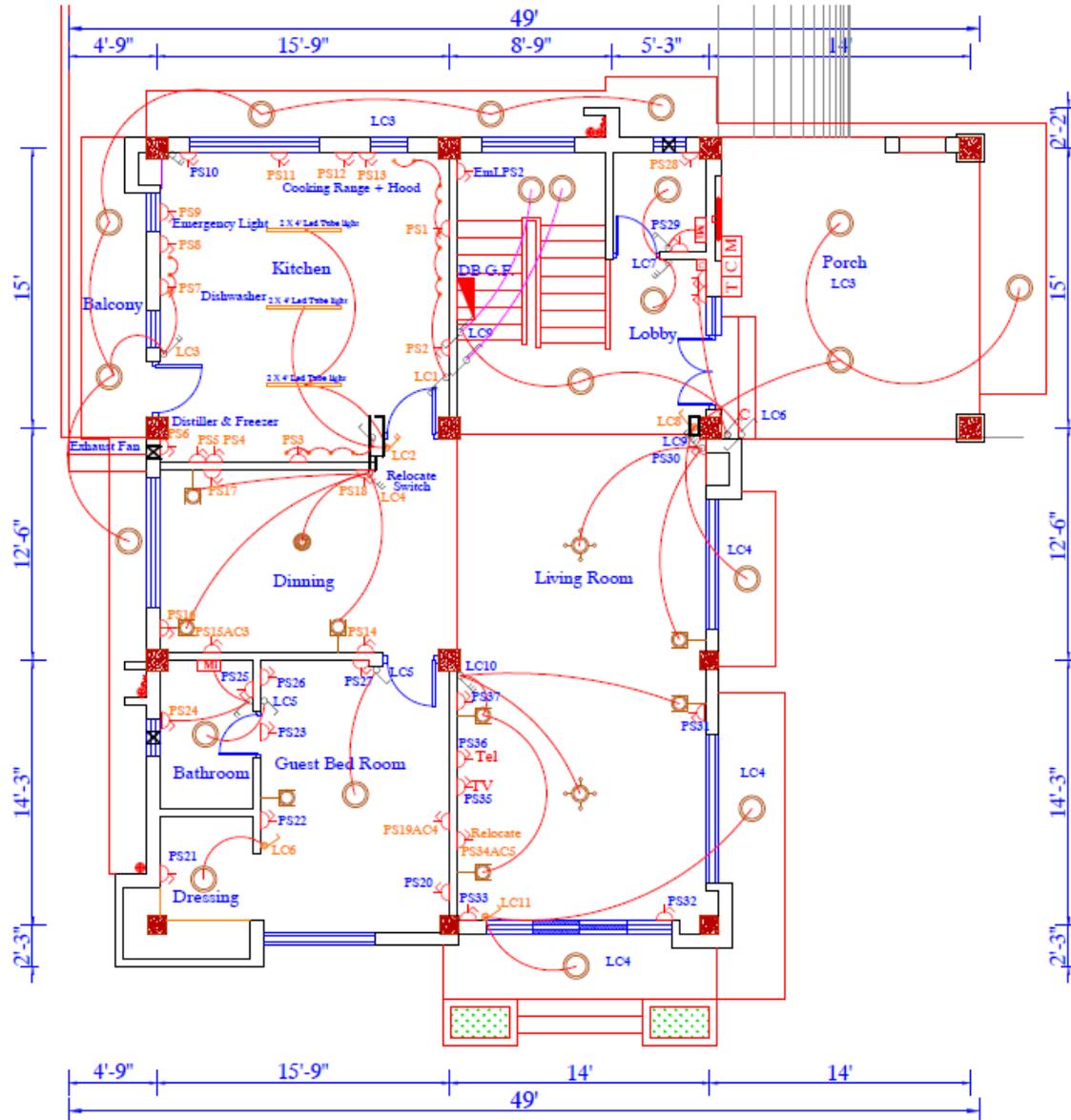
	Appliances	Size of appliances
1.	Cooking range	L-30" B - 25" H - 36", the back of stove is 46" high.
2.	Refrigerators (two side-by-side models)	L - 42" B - 33" H - 71"
3.	Freezer	L - 34" B - 33" H - 74"
4.	Washing Machine	L - 27" B - 25.5" H - 36", 42"
5.	Dryer	L - 27" B - 25.5" H - 36", 42"
6.	Water distiller	L - 20.5" B - 12.5" H - 18"
7.	American Water Heaters	Dia. - 22" H - 62"

1. Basement Room Electrical Plan



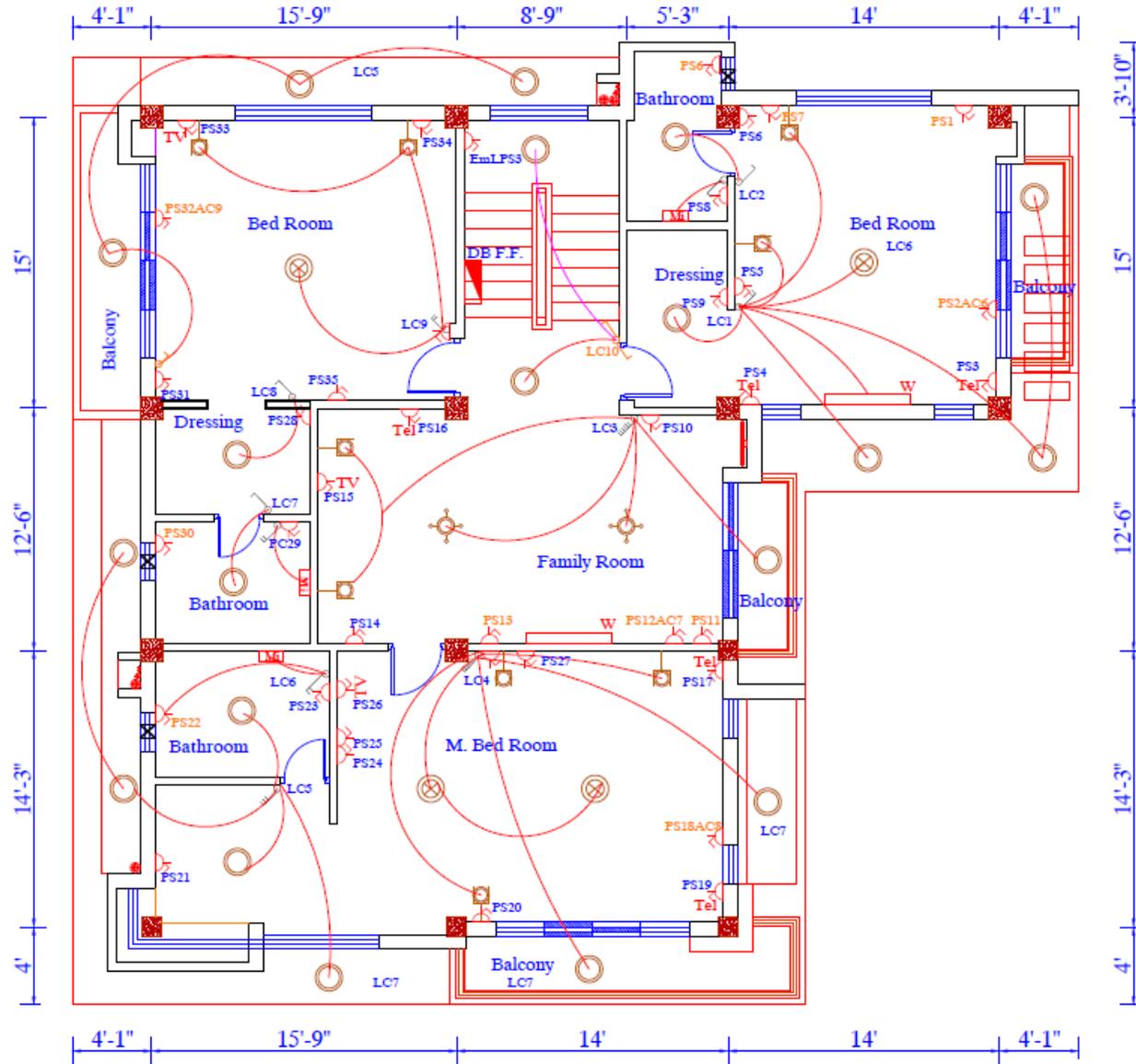
Electrical Drawing - 2

2. First Floor Electrical Plan

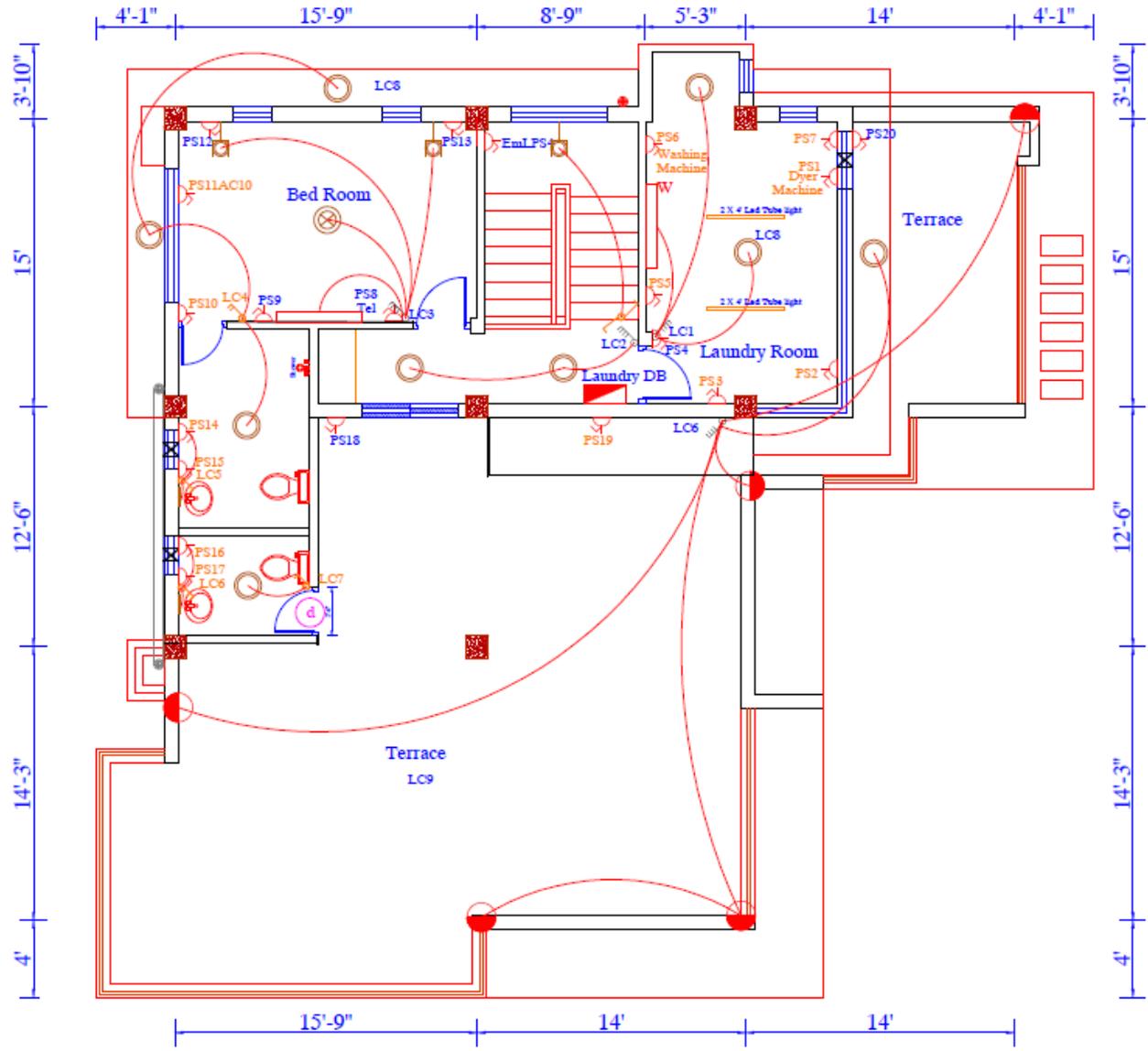
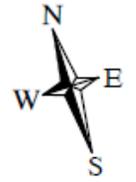


Electrical Drawing - 3

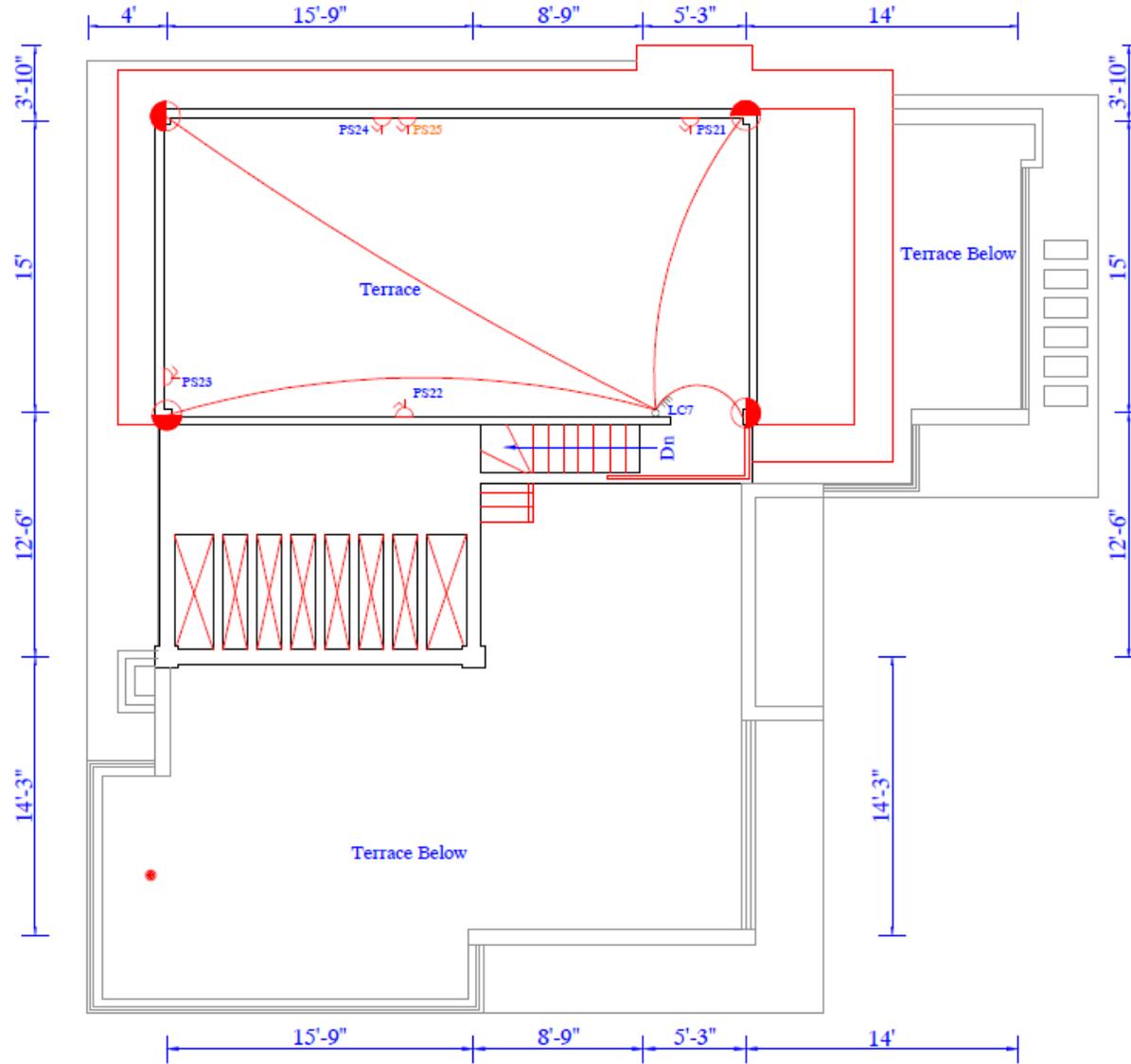
3. Second Floor Electrical Plan

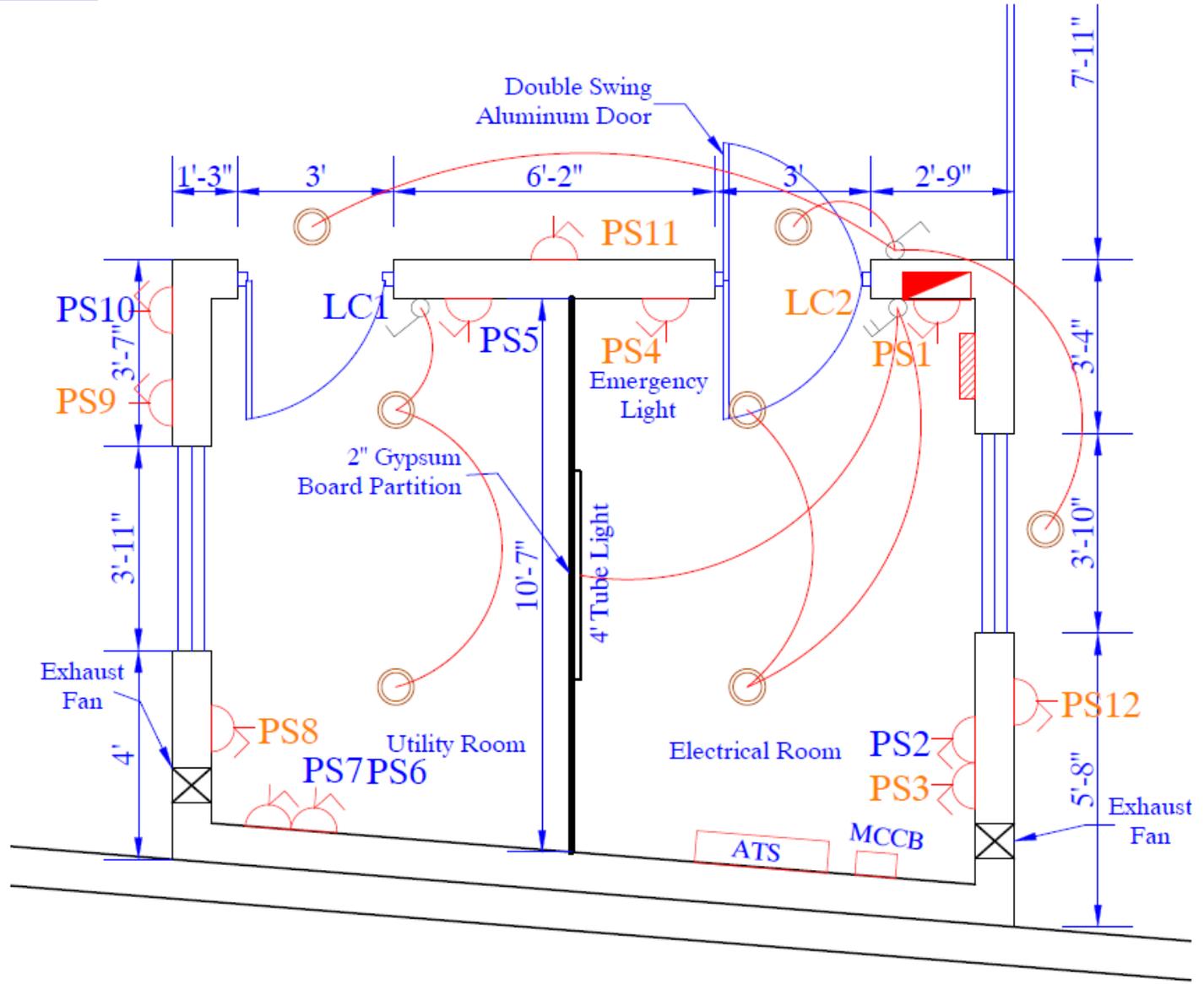


4. Third Floor Electrical Plan



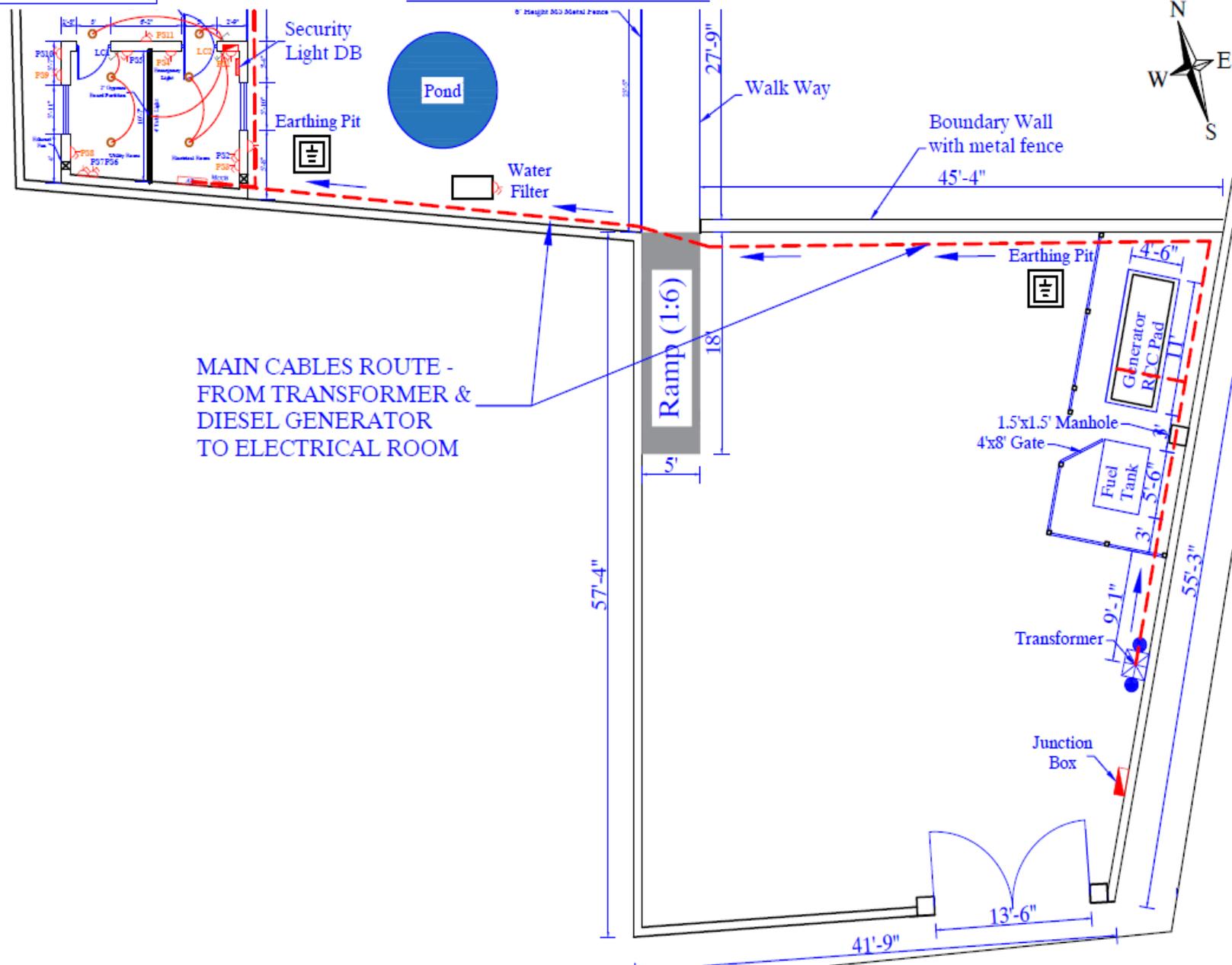
5. Terrace Electrical Plan





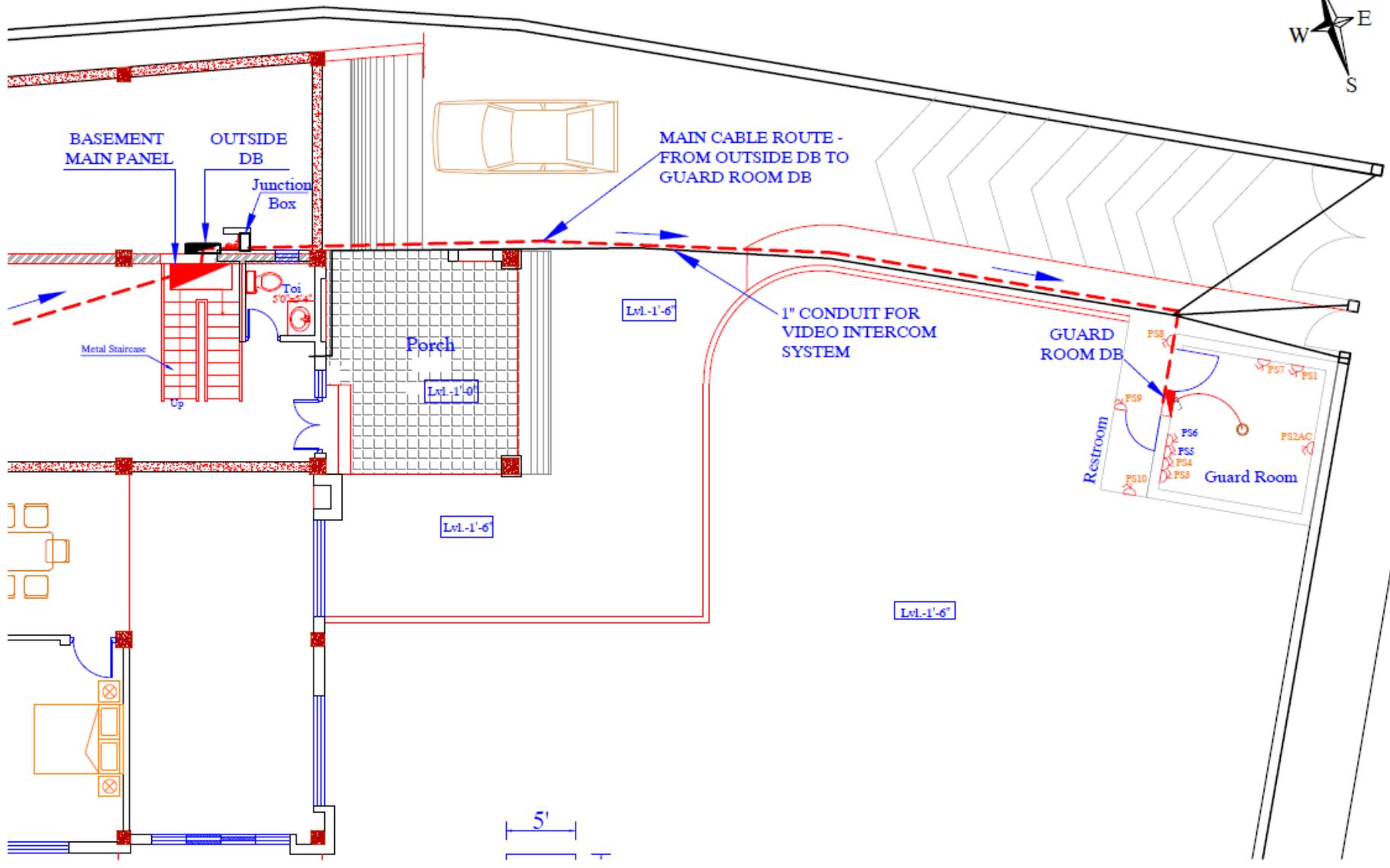
Electrical Drawing - 7

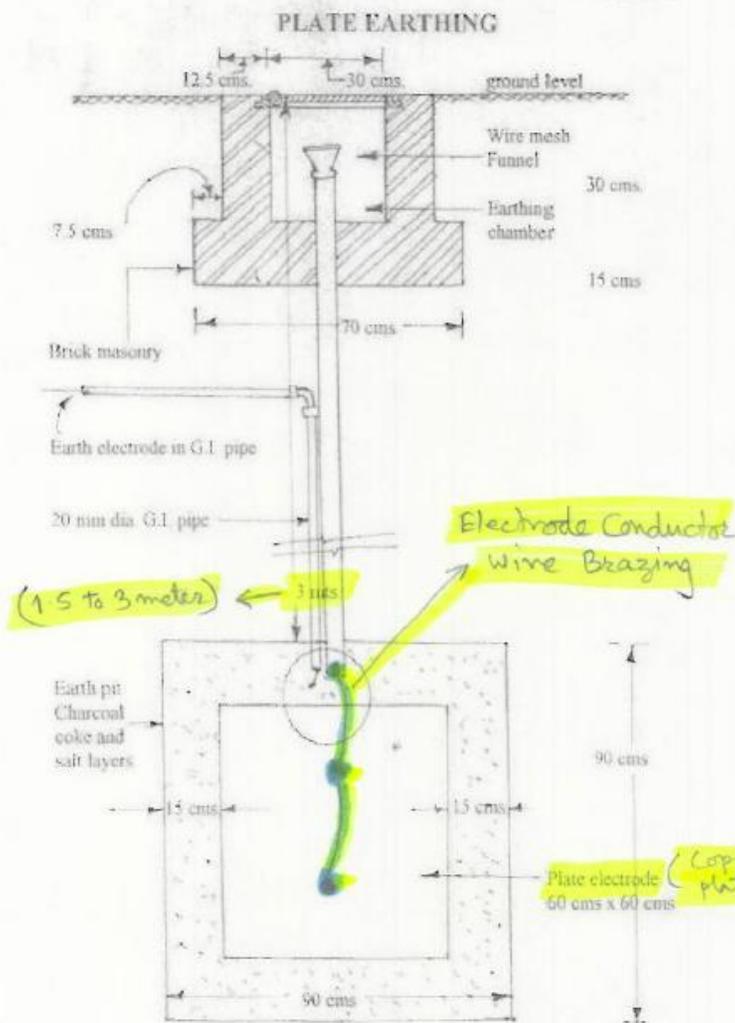
7. Main Cable Route - 1



Electrical Drawing - 9

9. Main Cable Route - 3





X 30 cms. Layers of charcoal/coke and salt are to be made in the earth pit after putting the electrode in its place.

3. No earth electrode should have a resistance more than three ohms measured by an earth resistance meter. In rocky soil the resistance may be upto eight ohms.

(Copper Plate)

1. Electrode should be of size 60cms X 60 cms X 3 mm thick.

2. The Copper plate earthing shall be buried deep in the ground with its face vertically and top not less than 3 mts below ground. A cast iron/MS frame with cover having locking equipment shall be suitable embedded in the brick masonry to protect the watering arrangement (funnel with mesh and 20 mm diameter G.I. pipe of medium class quality fixed on the top of the electrode) and the earth pit from mechanical damages. The brick masonry enclosures should be not less than 30 cms X 30 cms

(1.5 to 3 meters)
(depends upon moisture content in the ground)

Electrode Conductor
Wire Brazing

(1.5 to 3 meters)

Plate electrode
60 cms x 60 cms
(Copper plate)

SOW FOR CIVIL WORK

SCOPE OF WORK

1. Demolition:
 - a) Remove the existing iron fence on the north side brick wall of the parking lot.
 - b) Remove the brick wall on one side of parking lot to install a new gate.
 - c) Remove out the basement interior stair well door.
 - d) Remove out PVC flooring in the basement.
 - e) Remove the existing gate on the northside of parking lot.

2. Construction:

Civil Work

A) Basement room dry wall installation work (Approx. Area: 160 Sqft.):

Refer: *Civil Drawing 1*

- Contractor must supply and install all the required material and labor for dry wall in the basement room. See **Civil Dwg-1**
- Contractor must supply and install 8mm thick gypsum board for dry wall on both side of the GI C-channel.
- Contractor must supply and install 4" GI C-channel (thickness 16 Gauge) for dry wall install on 24" c/c.
- Contractor must prepare the dry wall surface by properly sanding.
- Contractor must do POP (Plaster of Paris) on the dry wall for paint.

B) Basement tile flooring work (Approx. Area: 613.20 Sqft.):

Refer: *Civil Drawing 2*

- High grade non-skid tiles, shall be of approved make and quality, and approved by the Contracting Officer or on site U.S. Government Representative(s), who will keep them in his office for verification as to whether the materials brought for use conform to the approved samples. Contractors must quote for different (as much as possible of varieties) tiles.
- Mortar shall be of accepted industry standard for tiling works. The amount of water added shall be minimum necessary to give just enough plasticity for laying and satisfactory bedding. Care shall be taken in preparing the mortar to ensure that there are no hard lumps that would interfere with the even bedding of the tiles. Before spreading mortar, subtile or base shall be cleaned of all dirt, scum, loose materials and laitance if any, by scrubbing with choir or steel wire brush or by hacking if necessary and then well wetted without forming any pools of water on the surface. Before laying the mortar, the sub grade shall be approved by the Project Manager in case R.C.C. floors, the top shall be left a little rough. All points of level of the finished paving surface shall be marked out.

The mortar shall then be evenly and smoothly spread over the base using screed batons only over so much area as will be covered with tiles before the setting of the mortar. The thickness of the mortar bed shall be not less than 3/4" and not more than 1". If the existing surface is already level with cement punning, then use tile adhesive (Silver Star or same quality) approved by the COR.

- The tiles before laying shall be soaked in water for at least 2 hours. This which are fixed in the floor adjoining the wall shall be so arranged that the surface of the round edge tiles shall correspond that the skirting of dado. COR approved neat tile adhesive of honey like consistency shall be spread over the tile just to cover so much area as can be tiled within half an hour. The edges of the tiles shall be smeared with neat white cement slurry and mixed in this grout one after the other, each tile being well pressed and gently tapped with a wooden mallet till it is properly bedded and in level with the adjoining tiles. There shall be no hollows in bed or joints. The joints between the tiles shall not exceed 1.5 mm wide. After fixing the tiles finally in an even plane, the flooring shall be covered with wet saw dust. The tile flooring shall be cured for 14 days.
- After the tiles have been laid in a room or the day's fixing work is completed the surplus cement grout that may have come out of the joints shall be cleaned off before it sets. Fill all the tile joints with the waterproofing grout. Once the floor set, the floor shall be carefully washed clean and dried. When dry, the floor shall be covered with oil free dry saw dust which shall be removed only after completion of the construction work and just before the floor is occupied.

C) Basement epoxy flooring work (Approx. Area: 186.70Sqft.):

Refer: Civil Drawing 2

- Contractor service requested is to epoxy flooring work. Contractor must fill the gaps/cracks and holes with approved putting on the existing cement floor of basement room.
- The sanding/buffering must be done properly on the filled area.
- Before applying to epoxy paint sanding//buffering must be done on the floor.
- Epoxy primer should be done prior to do epoxy paint on floor.
- Base painting material should be supplied and applied by the contractor.
- Contractor's service requested is for supply of all the labors needed to complete the work but not limited to supply of all low side material required like thinner, crack sealer, tarpaulin oil, and initial coat of primer as well as necessary tools like rollers, brushes & scaffolding arrangement to complete the work.
- Epoxy paint must be applied at least two coats on the floor
- Using of MASKING tape is mandatory along the edge when paint surface is joins with other surfaces like door frame, skirting, false ceiling channel etc.

- All debris caused by the preparation and painting will be cleaned up at the end of each day
- Use appropriate respirators as mentioned in Safety Section.
- Use fan for the proper ventilation during the epoxy painting.

D) Ramp construction work:

Refer: Civil Drawing 3 and 4

i) Earthwork in excavation and ground level preparation (Approx. Quantity: 70 Cuft):

- Contractor must excavate/remove the loose material from the parking lot area.
- Contractor must compact the ground firmly with soil to maintain level.
- Contractor must saturate the parking lot before compaction with compactor roller.
- Contractor must use 5-6-ton compactor roller to compact the ground.

ii) Single layer flat brick soiling (Approx. Area: 90 Sft):

- Contractor must supply and lay first class single layer flat brick soiling in proper level after completion of ramp ground compacted as shown in drawing.

iii) Fill rubble/brick bats 50-80 (Approx. Quantity: 117 Cuft):

- Contractor must lay rubble/brick bats 50-80 to fill the space between the RCC wall as shown in drawing.

iv) 4" Reinforcement cement concrete work (Approx. Quantity: 30 Cuft):

- Contractor must use proper size of plywood as a formwork for 4" RCC work of the ramp as shown in drawing,
- M20 Concrete must be used with appropriate gravel size, river sand and OPC cement.
- Reinforcement should be Fe415 10mm Ø. Bar spacing must 150mm C/C. Rod lap length must be minimum 300mm.
- Supply, install and remove all formwork required for the ramp construction.
- Water curing must be done at least 1 week.

v) Cement Plaster on RCC wall (Approx. Area: 27 Sqft):

- Contractor must use cement sand ratio 1:4 with 12.5mm thick plaster on the exposed RCC ramp wall as shown in drawing.

vi) SS Railing work:

- Contractor must supply and install SS pipe (**14 gauge- vertical post**) for the ramp railing work on one side as shown in drawing.

- Supply and install 2" dia. SS pole (**3Nos, Height: 36"-42"**) for vertical post.
- Supply and install 1.5" dia. SS pole (**Approx. length: 100'**) for horizontal pipe.

vii) Remove brick wall on the northside of parking lot

- Remove the 9" brick wall on the northside of parking lot (**Approx. Size: 24"x36"**).

viii) Formwork (Approx. Area: 27 Sqft):

- Supply and install formwork with all complete.

viii) Metal gate work (Approx. Area: 25 Sqft):

- Contractor must supply and install metal door with all complete sets according to drawing.

E) Parking lot and walkway interlocking concrete block work (Approx. Area: 2634.20 Sft):

Refer: Civil Drawing 5

i) Earthwork in excavation and ground level preparation:

- Contractor must excavate/remove the loose material from the parking lot and walkway area.
- Contractor must supply and level the ground with soil to maintain the required slope towards the south gate for the storm water.
- Constrictor must use the level machine for slope maintain in parking lot.
- Contractor must saturate the parking lot before compaction with compactor roller.
- Contractor must use 5-6-ton compactor roller to compact the ground.

ii) Single layer flat brick soiling:

- Contractor must supply and lay first class single layer flat brick soiling in proper level after completion of parking lot ground compacted as shown in drawing.
- Brick should be approved by COR.
- Gap must be filled with sand.

iii) Supply and installation of first grade interlocking concrete block

- Contractor must supply and lay the stone dust about 1" thick.
- The stone dust must be fully saturated with water and well compacted by the contractor.
- Contractor must supply and lay the first grade interlocking concrete block (70-80mm thick) approved by the COR above the compacted stone dust with proper line and level so the storm water flow towards the south gate.
- Contractor must fill the gap between the interlocking concrete block with the stone dust.

- Contractor must make parking strip line with different color interlocking concrete block as directed by COR.
- Supply and lay 4" thick M20 in front of the parking lot gate with gentle slope (**Approx. Size: 15'x3'**)
- M20 Concrete must be used with appropriate gravel size, river sand and OPC cement

F) Plaster on the fence wall around the parking lot (Approx. Area 1132 Sft):

- Contractor must supply all the required labor and material for plaster and paint on the fence wall around the parking lot.
- Sand must be free from foreign material.
- OPC cement must manufacture before six months.
- Cement sand ration must be 1:4 and thick of the plater must be not less than 12.5mm.

G) Remodel utility and electrical room:

Refer: Civil Drawing 6

- Contractor must supply and installation all the required material and labor for dry wall partition in between the utility and electrical room as show in drawing.
- Contractor must remove the existing northside window of the electrical room and patch with 4" brick wall with plaster 1:4 cement sand mortar.
- Contractor must supply and install double swing **aluminum door 3'x7'** on the northside of electrical room.
- Contractor must supply and install **8mm thick Gypsum board** for dry wall partition on both side **2" GI C-channel**.
- Contractor must supply and install 2" GI C-channel for dry wall partition.
- Contractor must prepare the dry wall partition surface by properly sanding.
- Contractor must do POP on the dry wall partition for paint.
- Contractor must supply and apply the **epoxy painting** at least two coats with all the material required for the prime coat and surface preparation. (**Approx. Size: 10'x15'**)
- Contractor must supply and install **flag stone (Approx. Size: (6'x6')** at outside the electrical room and should be match with existing flag stone.
- Contractor must install the kitchen cabinet in utility room, removed from the kitchen as directed by COR.

H) Generator and fuel tank RCC pad and fence around it:

i) Generator and fuel tank RCC pad

Refer: Civil Drawing 7

- Contractor must supply labor and material required for the construction of generator and fuel tank RCC pad as show in drawing. (**Generator Pad Approx. Size: 11'x4.5'x8" & Fuel tank Pad Approx. Size: 5.5'x4'x6"**)
- M20 Concrete must be used with appropriate gravel size, river sand and OPC cement for RCC pad for generator and fuel tank (8" thick for Generator and 6" for Fuel Tank).
- Reinforcement should be Fe415 10mm. Bar spacing must 150mm C/C. Rod lap length must be minimum 300mm.
- Concrete must be mix in portable concrete mixer at construction site.
- Contractor must supply and install 2-1/2" PVC (12 feet) sleeve on the generator pad for pulling the cable.

ii) Generator and fuel tank fence & gate

Refer: Civil Drawing 8

- Contractor must supply labor and material required for generator and fuel tank fence around it as show in drawing (**Approx. Size: 35'x8'**).
- Earthwork for the foundation of footing (Size: 2'x2') as show in drawing.
- Contractor must supply **M20 concrete** for footing, **4Nos- 1.5' long rod (16mm dia.) and 10mm dia. Stirrup @ 5" c/c** to erect the MS pole.
- Contractor must supply and install **MS pole 4"x4" (8Nos-2mm Thick)** with **MS plate 10"x10" (8Nos-10mm Thick)** on the bottom as shown in drawing. Weld top cap to waterproof post.
- Contractor must supply and install **MS angle 2"x2" and 2" plate** frame for fencing the generator and fuel tank.
- Contractor must supply **fiber corrugated sheet** as show in drawing.
- Constructor must supply and install a gate (**Approx. Size: 4'x8'**) hinge on right side with all completed set to access for the generator repair and refill the fuel tank as shown in drawing.
- Construct a **manhole 1.5'x1.5'** and supply and install **4" dia. PVC pipe (Approx. Length 40')** to drain out the water while servicing the generator as directed by COR.

I) Dining room remodel:

- Remove the existing wash basin, mixer, angle valve, mirror securely.
- Remove the wall tiles near by the wash basin in dining room (**Approx. Size = 6'x4.5'**).
- Supply and install wooden wall parquet that match the existing one on dining room wall (**Approx. Size = 16'x4'**).

J) Expansion of top floor bathroom:

Refer: Civil Drawing 9 and 9.A

- Contractor must supply labor and required materials for the construction of both restroom on the top floor as shown in drawing.
- Demolish all the floor and wall tiles, exiting floor and south side wall.
- Remove all the existing sanitary fixtures and pipes securely.
- Remove the wooden door and reuse the same one as shown in drawing.
- Construct 4" cement board 10mm thick dry wall with 3-5/8 in. x 10 ft. 20-gauge galvanized steel drywall stud as shown in drawing (**Approx. Size: 295 Sqft**).
- Supply and install approved UPVC door (**d1- Approx. Size 7'x2.5'**) as shown in drawing.
- Supply and install approved UPVC windows (**2Nos- Approx. Size: 2'x4'**) as shown in drawing.
- Supply and install all the approved high-quality sanitary fittings (**Commode-1No (same as existing one), Washbasin-1No, Washbasin mixer-1No, Towel hanger-2Nos, Toilet paper holder-2Nos, Soap tray-2Nos, Commode Spray-2Nos etc.**) as shown in drawing.
- Contractor must supply and install wooden cabinet (**Approx. Size: 4'x1'9"x3'**) to (waterproof plywood not less than 18mm). All cabinets are stained wood finish with **granite (20mm thick). Please see 9.A**
- Supply and install CPVC plumbing pipes and fittings required for both restrooms to run both the cold and hot water.
- Supply and install PVC plumbing pipes and fittings required to drain out both the black and grey water.
- Supply and install approved **floor tile (Anti-skid, Approx. Area:120.00 Sqft) and wall tile (Approx. Area: 365.00 Sqft)** approved by COR.
- Supply and apply waterproofing grout between the floor and wall joint.
- Supply and install looking mirror (**Same as other restroom**) on the wall of both restrooms.
- Design, supply and install UPVC roof (**Approx. Area 8'x8'**) and MS square frame (**Square pipe 1.5" x1.5"- 17gauge**) with all complete as directed by COR.
- Supply and install false ceiling either 6mm plywood or PVC tiles approved by COR.

- Supply and install **conduit, electrical cables and light fixtures, power socket with GFCI** on both restroom as directed by COR.
- All electrical connection is made in approved electrical box.
- Supply and install curtain rod and granite shower lip as instructed by COR.
- Contractor must remove all the debris frequently from the construction site as directed by COR.

K) Laundry room remodel work:

Refer: Civil Drawing 10 and 11

- Supply Wooden table **size: 8'x3' x 3.3'** according to drawing. Well-seasoned sisam wood used for frame and **18mm thick waterproof plywood with 1mm thick formica** with paint approved by COR.
- Supply and install hot and **cold water CPVC pipeline** with all complete in laundry room for washing machine.
- Make a 4" circular hole on the wall for ventilation of drier as directed by COR.
- Upgrade the drain pipeline for the washing machine and floor drain as per site requirement or as directed by the COR.
- Connecting to the sink drain made with Y connector to hook up the washing machine and sink will have a trap install in the sink drain.

L) Plumbing work:

- Supply and install bottle trap for all the washbasin/sinks in the Temple House (**Approx. 11 Nos**).
- Rooftop: All CPVC pipe and fitting of high quality approved by the COR are used to install two American water heaters provided by US embassy.
- Remove the existing water filtration system with securely and plug the water pipe properly.
- Supply and install tap and CPVC plumbing pipe & fittings and garden tap to clean the parking lot area.
- Supply and install tap and CPVC plumbing pipe & fittings and garden tap for gardening purpose.
- Supply and install **TWO High-quality water pumps (e.g., PEDROLLO or DAVEY brand water pumps or similar quality)** to be provided to pump water from the underground tank to the overhead tank – a primary pump with one backup as a spare with required pipe and fittings.

- Construction of shed for the water pump as per drawing or as directed by COR (**Approx. Size: 6'x2.5'**).
- Supply and install two taps and required CPVC pipe and fittings on the lower and upper terrace of the main building with all complete set.
- Rainwater drain outlet should be at least PVC 4" dia. pipe in all balconies and terrace.
- Upgrade the existing drainpipe in all balconies with 2" dia. PVC pipe to drain out the water on the floor as directed by COR.
- Supply and install water heater (**Capacity 15-20 Liters-Nos**) in local and guard restroom including hot and cold-water supply pipeline.
- Supply and install CPVC plumbing pipes and fittings required for kitchen to run both the cold and hot water.
- Supply and install PVC plumbing pipes and fittings required to drain grey water from the sink in utility room.

M) Dismantle and repair work in kitchen:

Refer: Civil Drawing 12

- Remove all the existing wooden cabinets shelves, kitchen counter, kitchen sink, faucet, kitchen hood securely and handed to COR.
- Remove the decorative glass on the northside of the kitchen securely and other wooden cabinets and shelves.
- Remove the existing double swing kitchen door and need to reuse as shown in drawing.
- Flush the one window (**Size: 2'x4'**) on the westside of the kitchen as directed by COR.
- Dismantle existing wall tile & floor tile of the kitchen room.
- Construct 4" cement board 10mm thick dry wall with **3-5/8 in. x 10 ft. 20-gauge galvanized steel** drywall stud as shown in drawing (**Approx. Size: 12'x8'**).
- Supply and install wall tile for the kitchen approved by COR (**Approx. Size: 28'x1'9"**) with proper line and level apply tile adhesive/cement mortar applying waterproofing grout.
- Supply and install floor tile for the kitchen approved by COR (**Approx. Size: 15'7"x14'10"**) with proper line and level apply tile adhesive/cement mortar applying waterproofing grout.
- Supply and install **granite (20mm Thick)** for kitchen countertop (**Approx. Area: 88 Sqft**), **cabinet skirting (Approx. Size: 10 Sqft)** and **island table (Approx. Size: 11 Sqft)** as shown in drawing.
- Supply and install **single bowl SS kitchen sink** with all completed set as approved by COR.

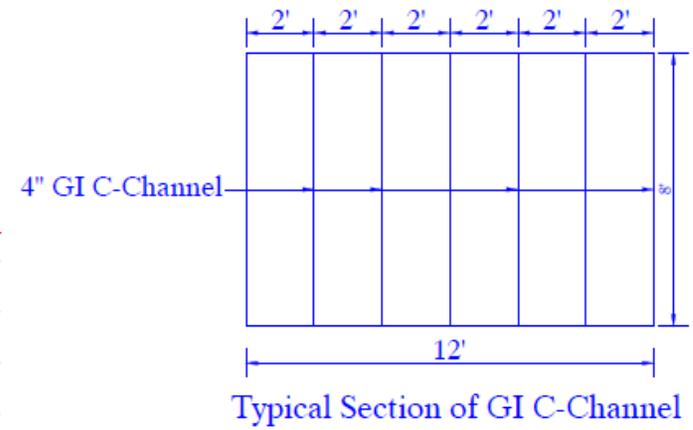
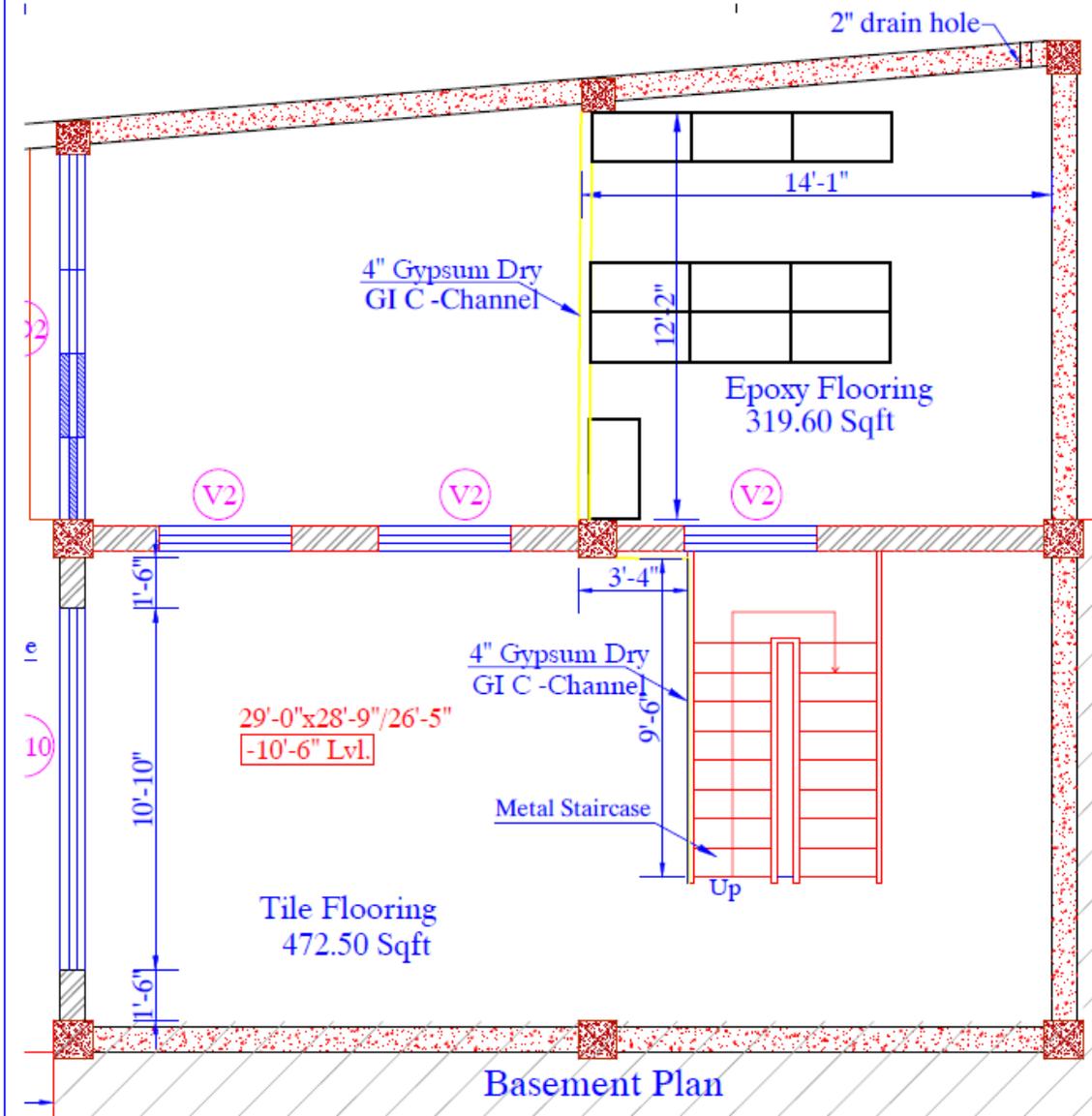
- Supply and install approved **high-quality angle valve (3Nos)** for both the kitchen sink and water distiller as shown in drawing.
- Supply and install approved high-quality **kitchen sink mixture (1No)** with all complete set (House/connecting pipe etc.) as shown in drawing.
- Install and supply proper CPVC pipe and fittings for kitchen sink drainage.
- All the debris must be moved from the working space frequently as directed by COR.

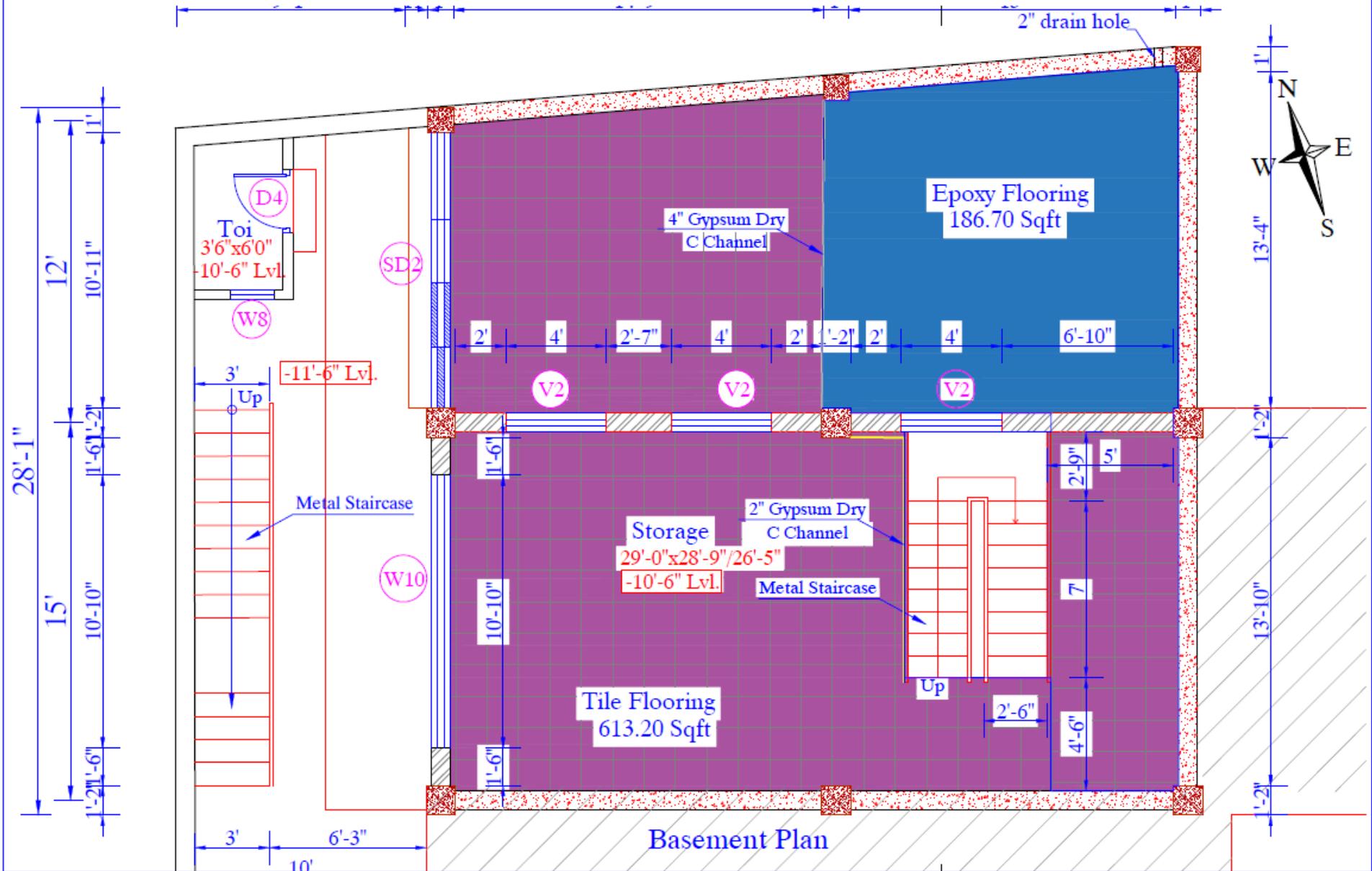
N) Floor protection work:

- Contractor must supply labor and material required for covering the floor to prevent from damage during the construction work inside the building.
- Contractor must use at least 6mm thick plywood, tarpaulin and 4-6mm thick foam mat to cover the floor, wall, furniture's etc. during the work inside room of the building.

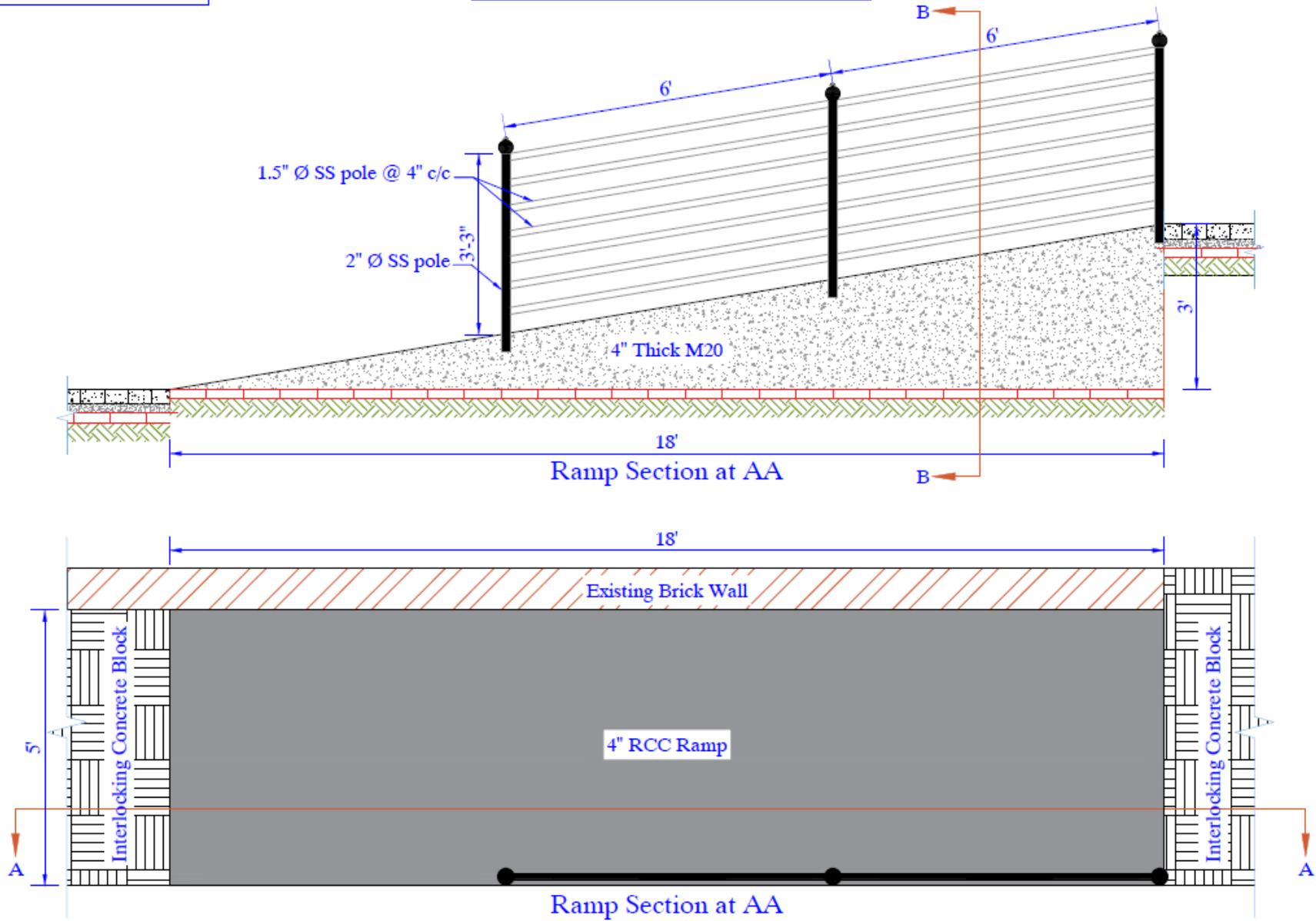
O) Miscellaneous work:

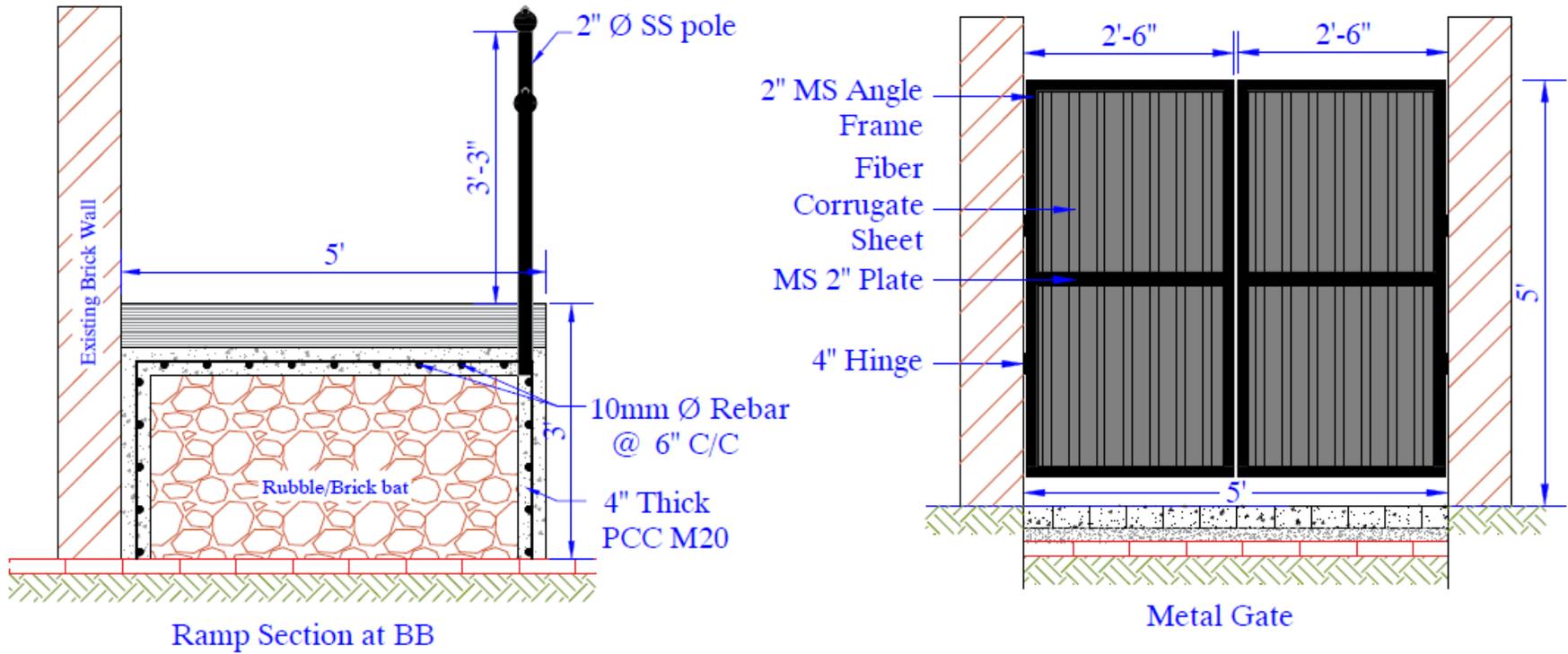
- Remove all the interior tower bolts from doors.
- Remove door locks installed by landlord.
- Opening on the westside (**Approx. 2.5'x7'**) for the access for sanitary repair work and supply and install door with all completes.
- Second floor family room PVC flooring parquet is warped and need to replace/repair.
- If it is possible to get same tile, shower head of the master bathroom need to relocate at the center.
- Formica repair/replace in the second-floor bedroom and on the way to its restroom.
- False ceiling repair just above the door to enter the restroom of second floor westside bedroom.
- Listi wiring is required just above the formica towards restroom door.
- Remove the existing iron fence on the north side brick wall of the parking lot.
- Make a 2" dia. Drain hole for the ice-cube machine on the east-north corner wall of the basement room.





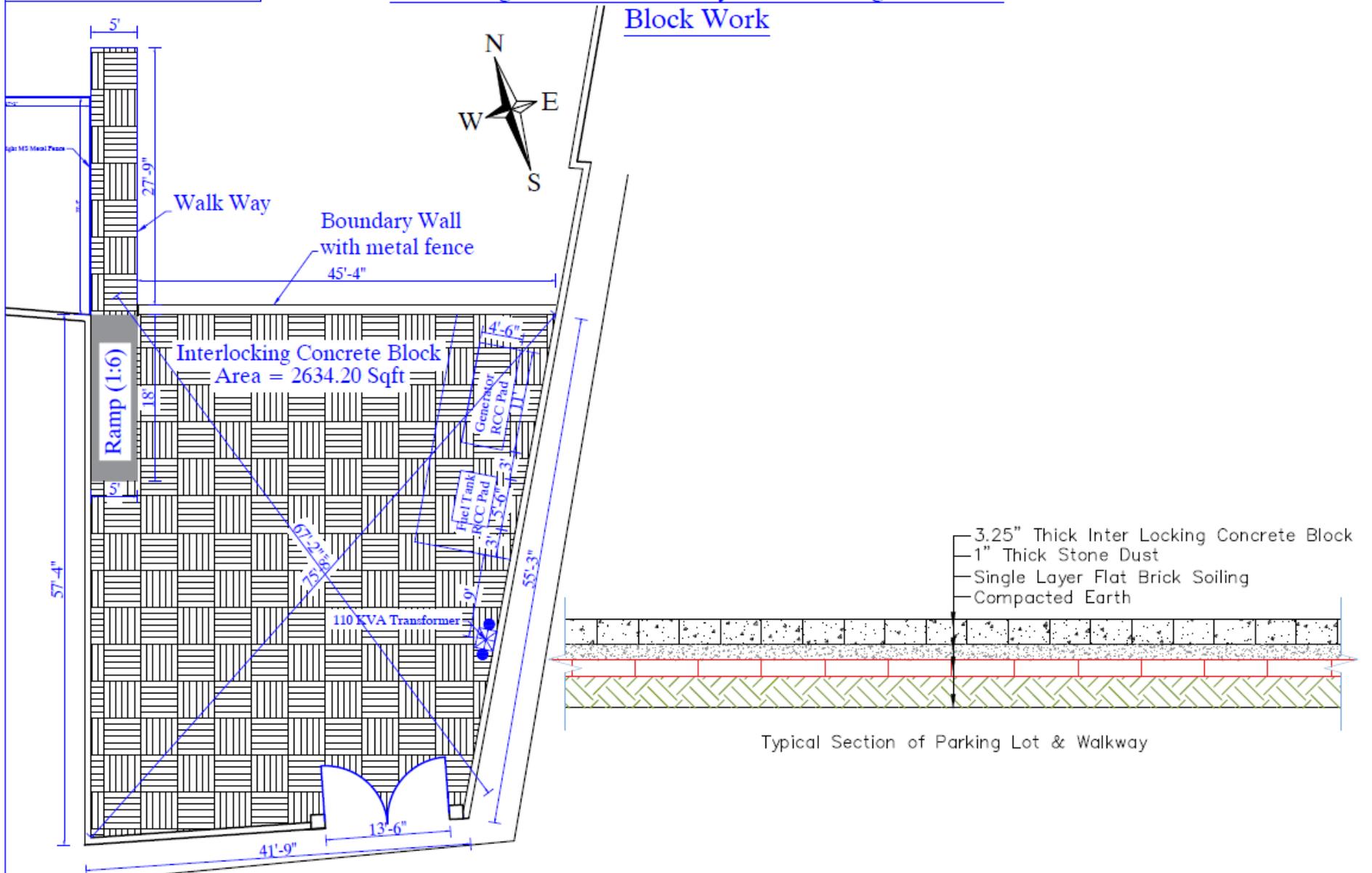
3. Ramp Construction Work - I

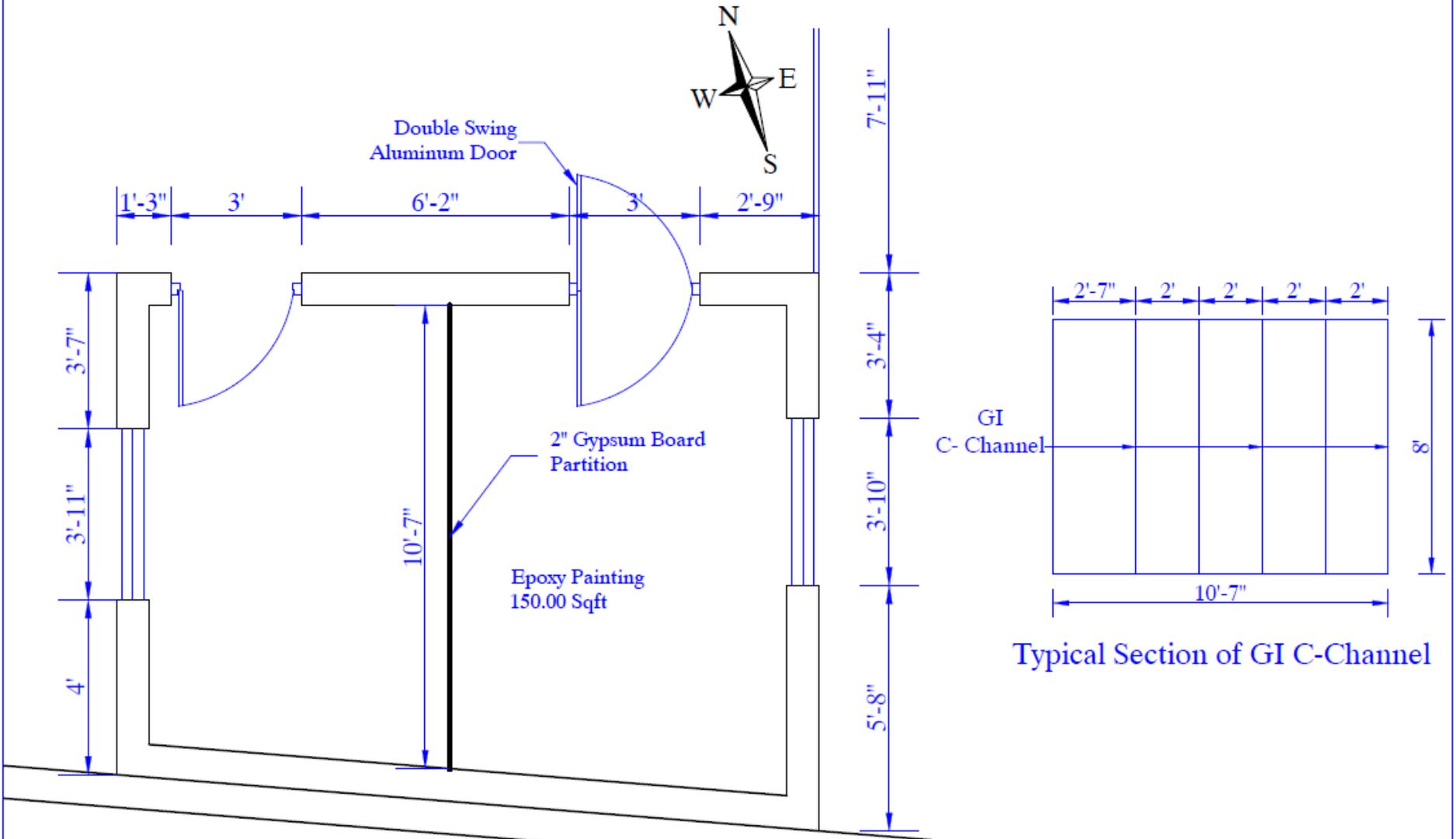




Civil Drawing - 5

5. Parking Lot and Walkway Interlocking Concrete Block Work

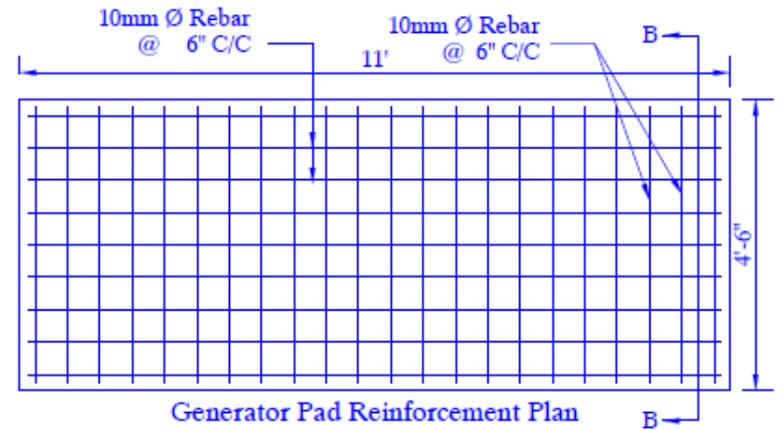
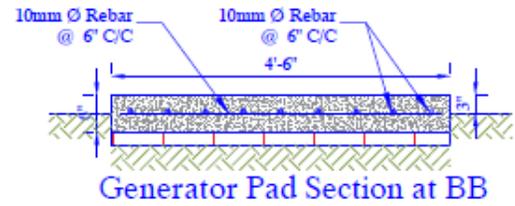
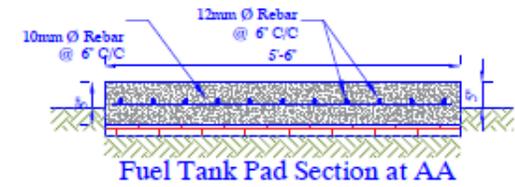
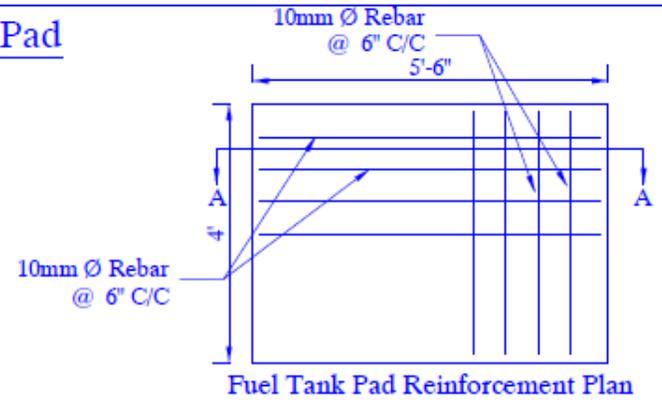
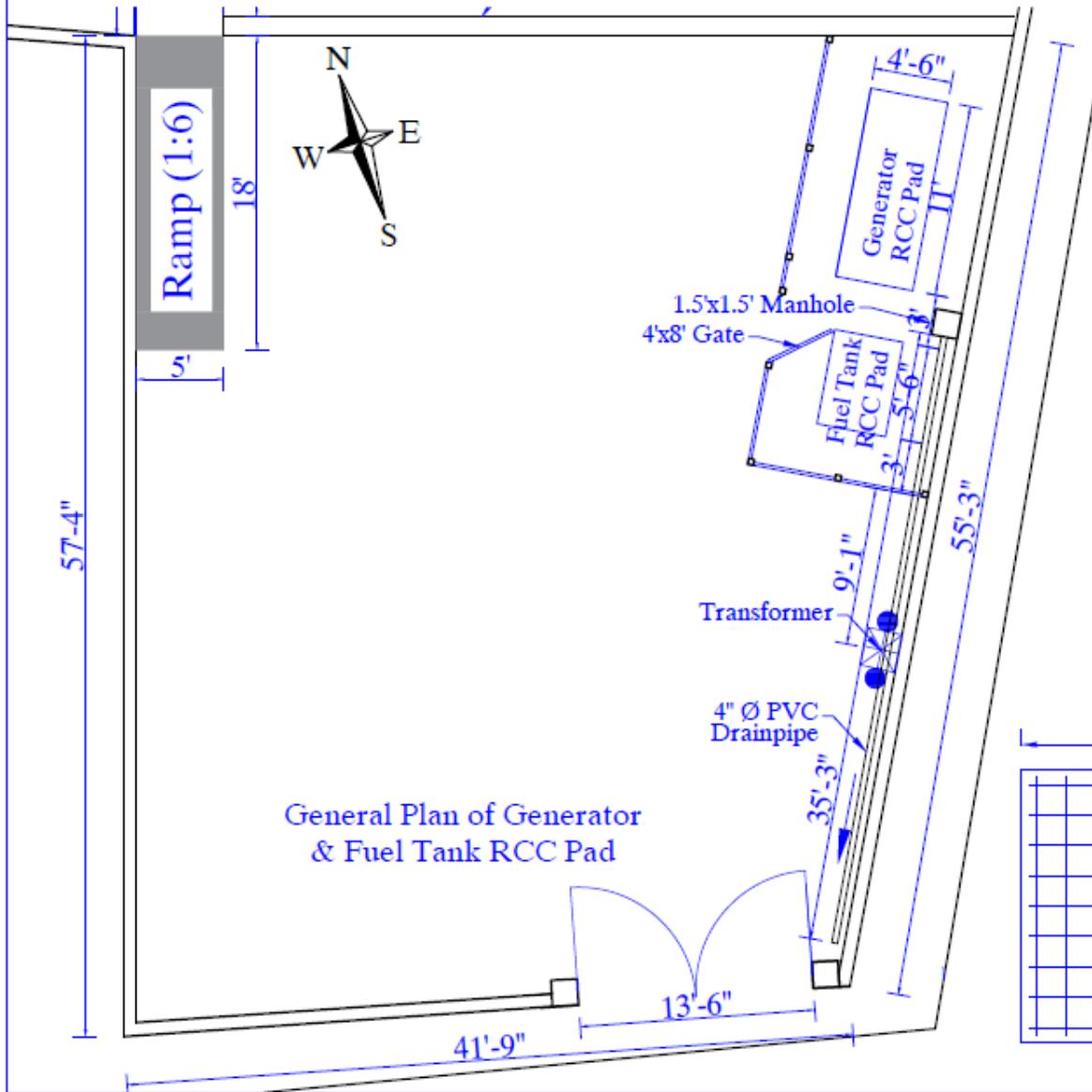




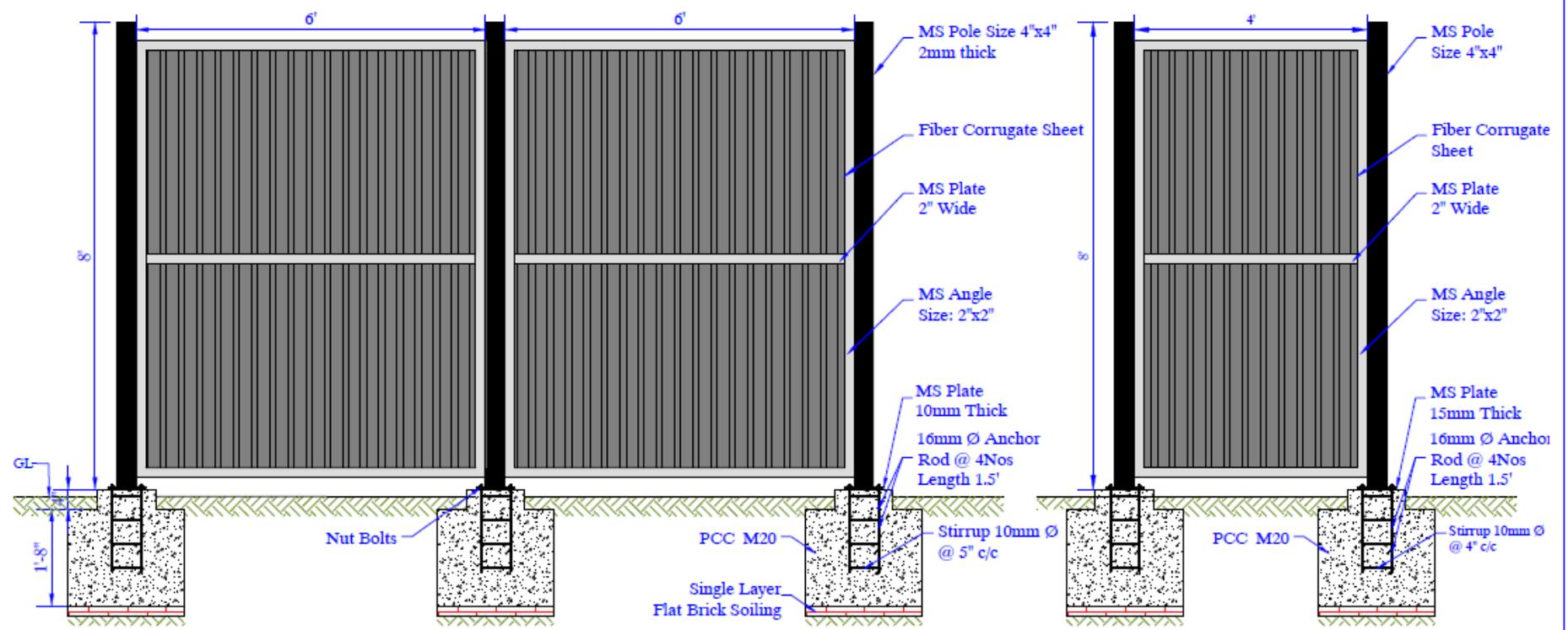
Utility & Electrical Room Plan

Civil Drawing - 7

7. Generator and Fuel Tank RCC Pad

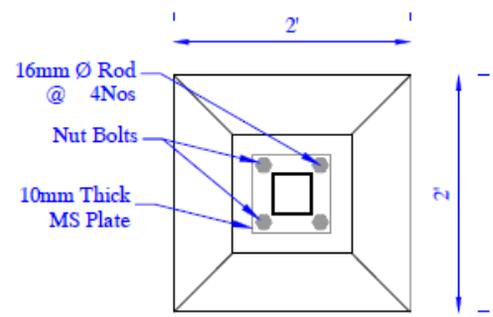


8. Generator and Fuel Tank Fence & Gate

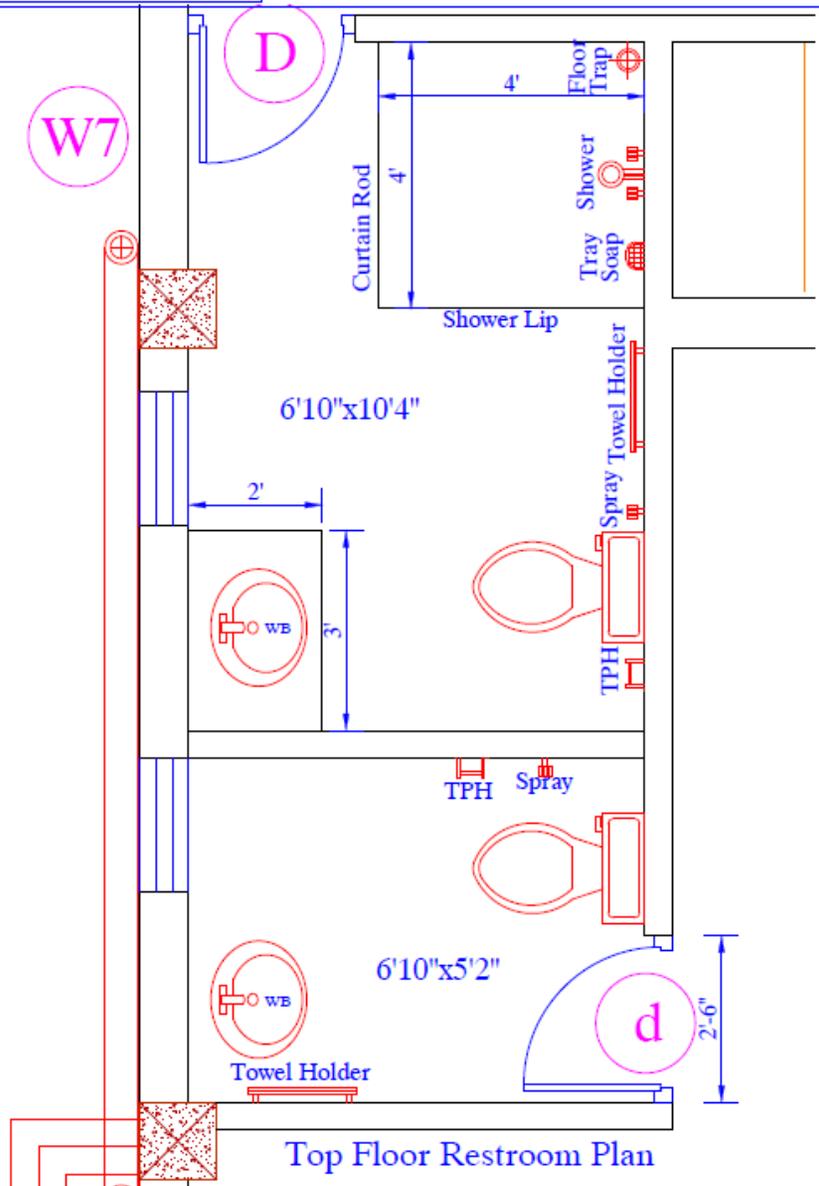


Typical Section of Fence

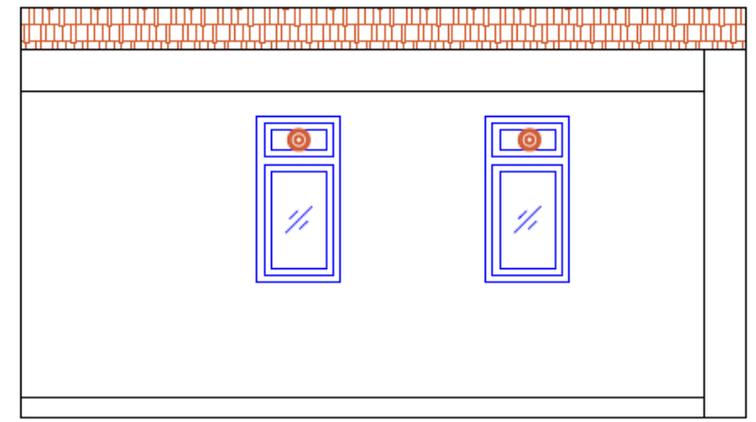
Typical Section of Fence Gate



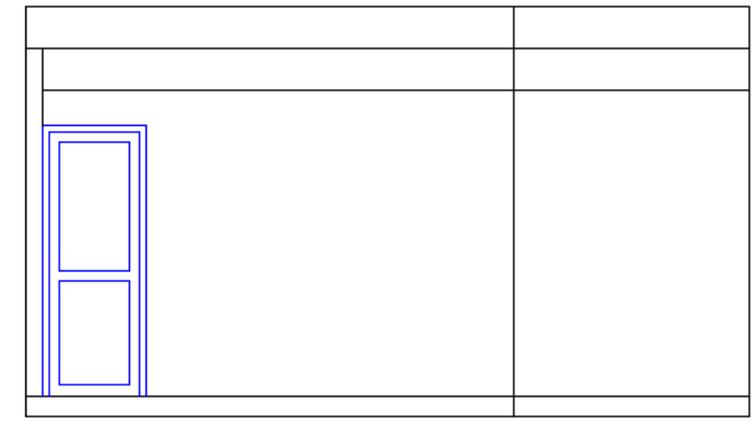
Typical Plan of Fence Column



Top Floor Restroom Plan

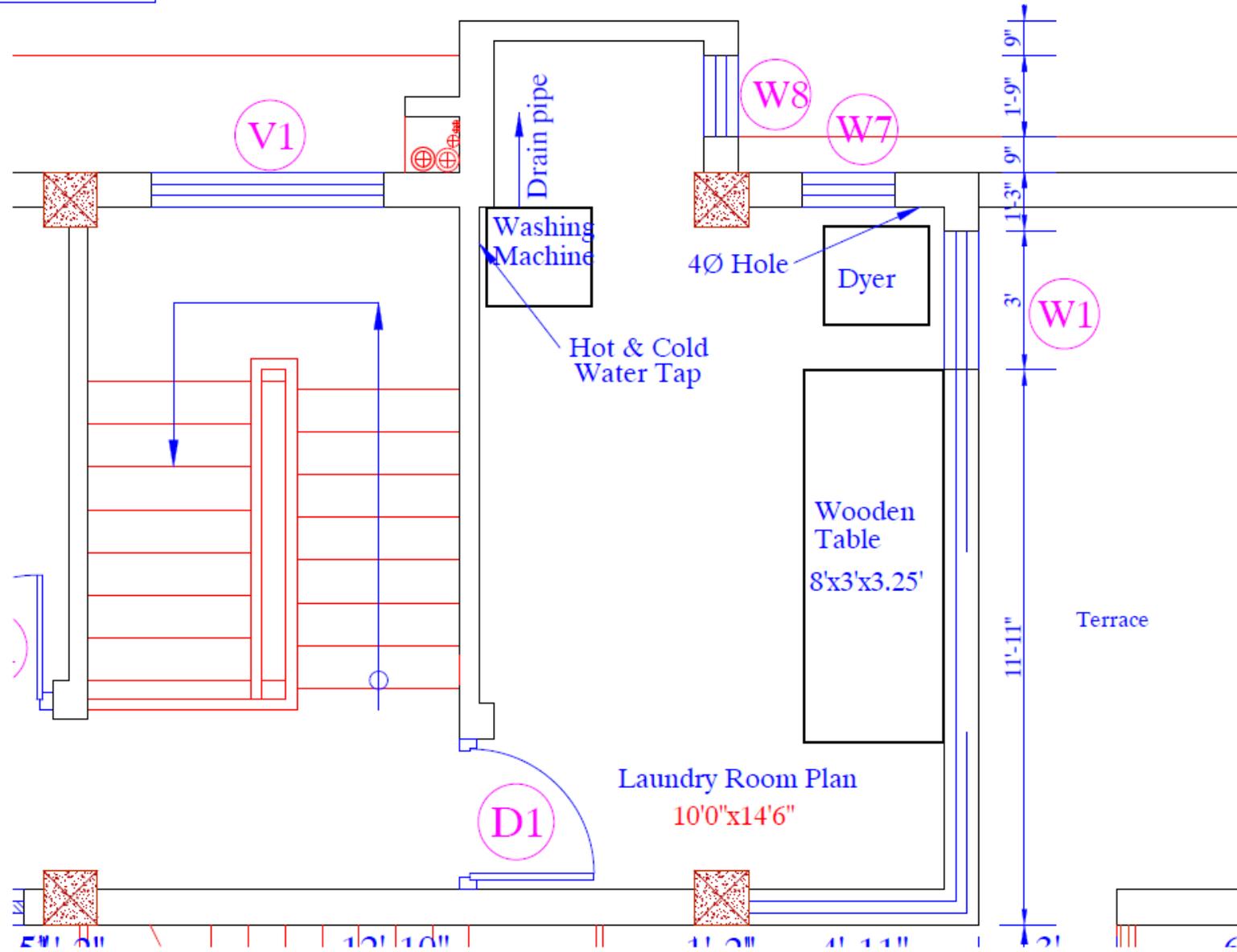


West Elevation

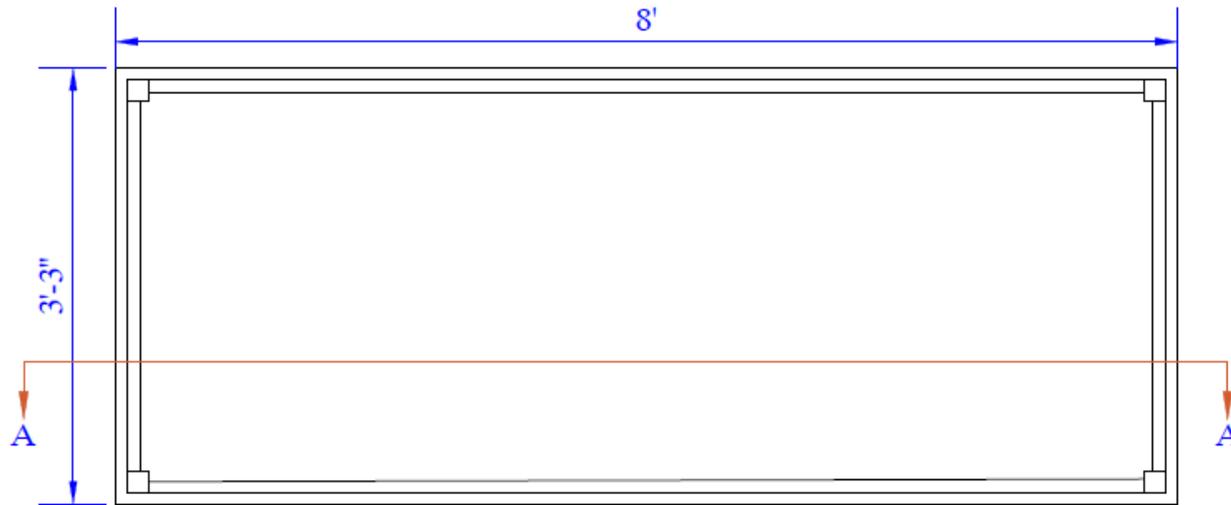


East Elevation

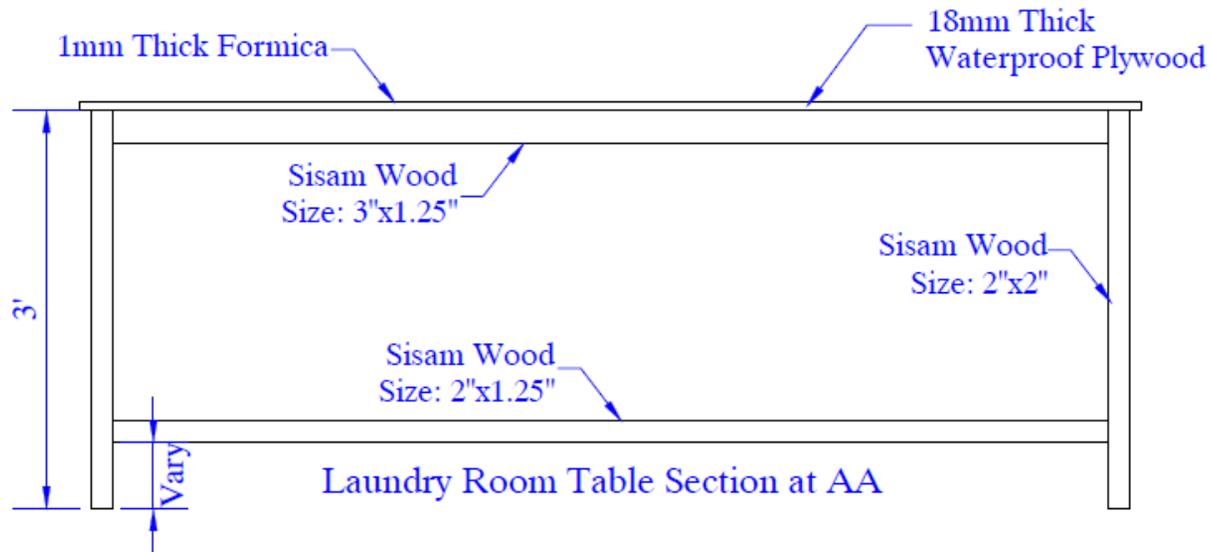
10. Laundry Room Remodel Work



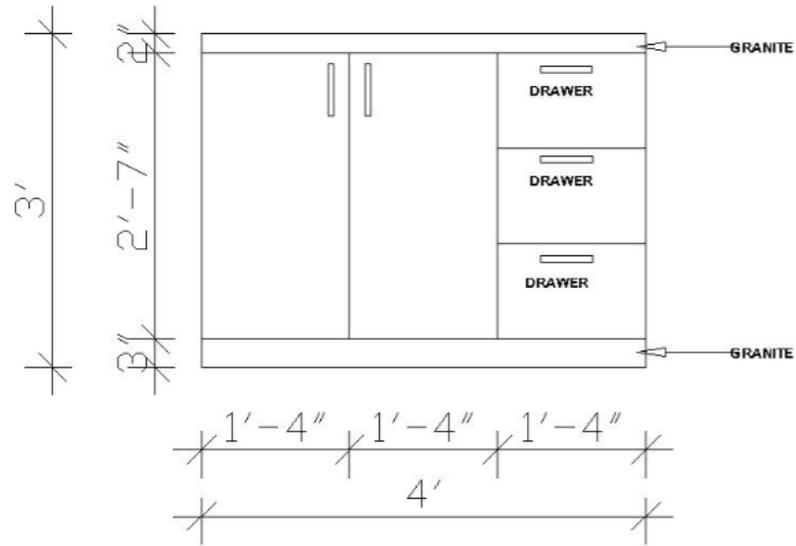
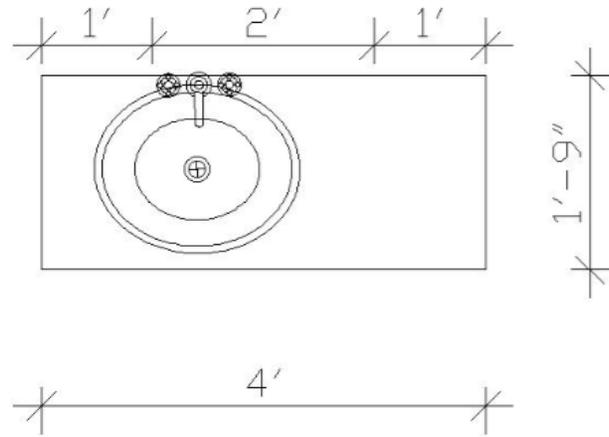
11. Laundry Room Table



Laundry Room Table Plan

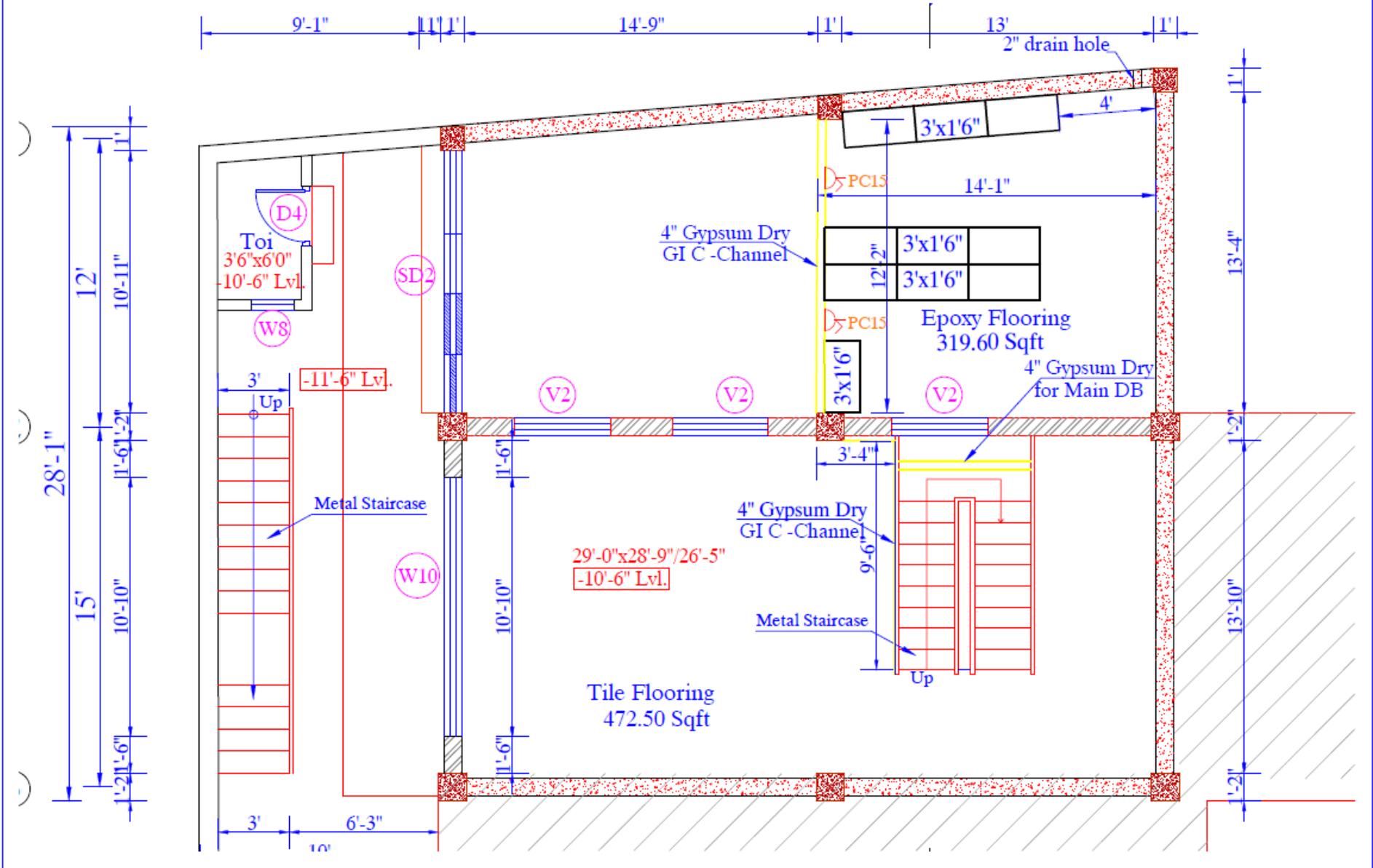


Laundry Room Table Section at AA



BATH CAB

BATH CAB



SOW FOR SAFETY UPGRADE WORK

SCOPE OF WORK for SAFETY UPGRADE WORKS

Below scope is based on U.S. Embassy's POSHO Certification for Residential Property and SHEM Residential Safety, Health and Fire Prevention Awareness Checklist.

1. Guardrails/Railings:

- a) Front Lawn area on the East side of the compound: Existing guardrail (railing) extends from the entrance of the house to the East compound wall above the Guard House. Height of the metal guardrail is 32" high and gaps are 9" wide.
- Extend the guardrail up to **42 inches high** and decrease the gaps to maximum 4 inches wide using square metal bars of size 1.5x1.5 inch. Total length of the guardrail is 48 feet. Guardrail section touching the perimeter fence that is 14 feet long: raise the height up to 48 inches then drop to 42 inches. (Representational areas open to the public).
 - Install square metal bars (1.5 x 1.5 inch), similar to existing support bar, to decrease wide opening (2 feet x2.5 feet) between the guardrail and guard house wall. Paint the metal in white color for new and existing metal.



- b) Front Lawn area on the East side of the compound (2): There is a floor level drop between the tiled floor (roof of the guard house) and the lawn ground. Install guardrail up to **42 inches high** and with maximum 4 inches wide gaps. Total length of the guardrail is 9 feet. Dimension of the square metal bar should be 1.5 x 1.5 inch. Paint the metal in white color for new and existing metal.



- c) all metal guardrails on the North (5 feet) and East (13.5 feet) should be 18.5 feet long and 42 inches high.

-Steps with 4 risers: Install a single handrail on the open side at 36 inches high. Length is 5 feet and gaps are not more than 4 inches wide. Dimension of the square metal bar (supports/balusters) should be 1 x 1 inch for the guardrails. Top rail dimension should be 2 inch x 1 inch and post should be square 2x2 inch pipe. Install vertical guardrails with gaps not more than 4 inches wide; and the gap between the ground and the bottom rail should not be more than 4 inches wide. Paint the metal in white color for new and existing metal. See *Safety Drawing 1* for design and details.



- d) Back side of the house/landing of the staircase leading to the basement: Install guardrail up to 42-inch-high and with maximum 4 inches wide gaps on the top of the masonry parapet. Length of this area is 4.5 feet. Dimension of the square metal bar should be 1.5 x 1.5 inch. Paint the metal in white color for new and existing metal. Top rail should be 3 inch x 1.5 inch.



- e) Backside of the kitchen: Height of the guardrail is 36.5 inches high. But the gaps are 7 inches wide. Decrease the wide gaps by installing metal square pipe so the gaps are no more than 4" wide, and raise the height up to 42 inches. Total length of the guardrail is 16' 7" and handrails on both sides are 64 inches long. Install handrail on the open side for the North stairs. Dimension of the square metal bar (supports) should be 1.5 x 1.5 inch, and top rail should be 3 inch x 1.5 inch. Paint the metal in white color for new and existing metal.



- f) Lower terrace metal and parapet guardrail: West side metal guardrail is 33" high only. East side metal guardrail is 34" high only. South side metal guardrail is 39" high. But the gaps on all metal railings are 5 - 6.5" wide which does not meet the safety code. Masonry parapet wall is 40 inches high.

-Decrease the gaps by installing metal bars in between, so that the gaps are not more than **4 inches wide**. Raise the height up to **42 inches for all metal and masonry parapet**. Total length of the metal railing is 77 feet and total length of the masonry parapet is 35 feet. Dimension of the square metal bar should be 1.5 x 1.5 inch for mid rails. Top rail should be 3 x 1.5 inch. Paint the metal in white color for new and existing metal.



- g) Lower terrace parapet wall: The 4 openings on the parapet wall are 7" x 11" wide. Decrease the gaps by installing vertical metal bars. Dimension of the square metal bar should be 1.5 x 1.5 inch. Paint the metal in white color for new and existing metal.



- h) Upper terrace: The gaps are 5" wide on all metal railings. Decrease the gaps by installing metal bars in between so that the gaps are not more than 4 inches wide. Total length of the metal railing is 12 feet, and total length of the masonry parapet wall is 100 feet long. Dimension of the square metal bar should be 1.5 x 1.5 inch. Paint the metal in white color for new and existing metal. Raise the height up to **42 inches for all metal and masonry parapet**. Top rail size should be 3 x 1.5 inch.



2. Stairs and Handrails:

- a) Steps on the entrance driveway: Install a single metal handrail on the wall side. Length of the handrail is 25 feet and 1.5-inch diameter.



- b) Staircase leading to the basement from the backside of the house: Handrail height is 37 inches high and meets the code. Gaps are 7" wide. Decrease the gaps by installing metal bars in between so that the gaps are not more than 4 inches wide. Install additional metal bar at the bottom of the rail so that a 6-inch sphere cannot pass through. Total length is 18 feet. Dimension of the square metal bar should be 1.5 x 1.5 inch.

Code requirement: The triangular openings at the open side of stair, formed by the riser, tread and bottom rail of a guard, shall not allow passage of a sphere 6 inches (153 mm) in diameter.



- c) Basement interior **wooden** staircase: Handrail height is 30 inches high only, including the landing. Extend height by 6 inches to make it 36 inches high. Gaps between supports are 4-6 inches wide. Install additional wooden post/support (1.5 inch) to minimize the gaps for 6 inch wide gaps. Length of the handrails are 6.5 feet and 12 feet long; total length is 18.5 feet. Wood type: Coat with wood polish (chakra polish) for proper complete finishing look. Added woodwork should match existing wooden handrails/guardrail.



- d) Basement Interior **wooden** Staircase-enclosed: There is no handrail. Install single wooden handrail on the right-hand descending side at 36" from the nose of the steps. Length of the handrail should be 9 feet long and diameter should be 1.5 inches. Wood type: Coat with wood polish (chakra polish) for proper complete finishing look. Added woodwork should match existing wooden handrails/guardrail.



- e) **Ground Floor entrance:** There is a wooden door on the top of the stairs to the basement. Remove the doors. Install new 42" high **wooden** guardrails on both side of the staircase with gaps not more than 4 inches wide. Length on one side is 5'3" long and other side is 4 feet. Top rails should be 3 inch thick and guardrail components should be 2 inch thick. Match existing wooden handrail on the main staircase. Wood type: Jungali Sisau. Coat with wood polish (chapra polish) for proper complete finishing look. Added woodwork should match existing wooden handrails/guardrail.



- f) **Main Interior wooden Staircase:** Handrail height is 31.5 - 33 inches high only. Extend height by 4 inches to make it 36 inches high or attach a 3-4 inch-thick wooden handrail on top of existing one. Wood type: Jungali Sisau. Total length (L#) of the handrails:
- i. L1: 7'1" + 19" bend
 - ii. L2: 7'1.5" + 18" bend
 - iii. L3: 7'2" + 21" bend
 - iv. L4: 8'3"
 - v. Top landing: Height is 35.5" high. Total length of the guardrail is L5: 53" top landing attach a 3-inch-thick wooden handrail on top of existing one.
 - vi. Gaps on the landings are 8" wide. Install wooden supports to decrease the gaps on 4 different landings.
 - vii. Coat with wood polish (chapra polish) for proper complete finishing look. Added



woodwork should match existing wooden handrails/guardrail.



- g) Lower Terrace Spiral Staircase: Handrail height is 35" high and gaps are 5" wide. Install vertical metal bars (1 inch) to decrease the gaps so that the gaps are not more than 4 inches wide. Total 30 units. Risers (12 units) have 8 inches wide gaps. Install 2 inch wide horizontal metal bars on each riser to maintain 4 inch gaps.



3. **Rooftop Water Tank platform on the upper terrace:**

- Guardrail around the water tank are 24 inches high. Extend the top rail to 42 inches high.
- Install multiple mid-rails (1.5 inch square pipe) on 4 sides so that gaps are not more than 4 inches wide.
- Extend the platform on the South side by 1 feet then move the guardrail on the edge.
- Legs of the platform should be braced to the floor using concrete mixture.
- Modify the ladder as per below requirement. Steps/rungs should be cut for proper access. Install fixed metal ladder for safe access to the tank platform with following specifications:
 - Ladder slightly sloped, not too steep for easy and safe access
 - Rungs and steps of fixed ladders must not be spaced less than 10 inches (25 cm) apart, nor more than 14 inches (36 cm) apart, along the ladder's side rails.
 - Circular ladder rungs should be 1.25 inches in diameter.

- Rails should be 2 inch thick square pipe
- Each step or rung/step of a fixed ladder must be able to support a load of at least 250 pounds (114 kg) applied in the middle of the step or rung.
- Width of the ladder should be minimum 24 inches wide.
- Install grab-bars (2 inch thick) on both side of the platform access area.
- Anchor the legs to the floor with concrete mixture for seismic safety.



4. Shed for American Hot Water Heater on the upper roof:

Specification for the shed: Install a metal sheet shed with a door to cover **two** units of American water heaters. Contractor should first co-ordinate and work with contractor's plumber before starting the work. Location: install next to the rooftop water tank platform. See Attachment 1 below for a sample.

- Shed size should be minimum 4 feet x 8 feet & 8 feet high with a roof; and with proper anchorage.
- Shed should have a door with a handle and a lock;
- Two 1x1 feet window openings with screens for ventilation.
- Install seismic bracing on the hot water heater using chain or metal strap.
- Materials: 1½" Metal Square Pipe for frame, 1" Metal Square Pipe, 24 gauge thickness red colored Corrugated Sheet for the roof, 26 gauge thickness Red Plain Sheet on the body, Self-Tapping Screw, Screen Net, and other required materials for construction of the shed.
- Anchor the legs to the floor with concrete mixture for seismic safety.

5. Single water tank platform on the basement store/toilet: Remove this platform and water tank from the compound.



6. Residential Window Guards:

- a. Third floor bedroom 2 windows: Windows are 7 feet wide. The height of the window sill is 12-13" from the floor. Install metal guardrail 42 inches high from the floor.
- b. Staircase landing window on the top: install guardrails 3feet x 2 feet.

Use 1 inch thick square metal pipes on the frame and 0.4 inch thick square rods for the vertical supports. Gaps should not be more than 4 inches wide. Paint white enamel after 2 coatings with primer.



7. W

ater Fountain/Pond Metal Fence: Install a metal barrier around the lawn area surrounding the decorative water fountain to prevent children from drowning. See *Safety Drawing 2* and *Safety Drawing 3* for details. Install self-closing and latching gates. The gate must be self-latching, self-closing, lockable, and the latch must be located at least 4.5 feet (1372 mm) above the ground/grade.

Metal barrier specification:

- a. Width (East): 23 feet 5 inch
- b. Width (West): 7 feet 11 inch
- c. Length: 33 feet 11 inch with 6 feet 9 inch door
- d. The top of the barrier must be at least 5 feet high.
- e. Use MS square pipe $\frac{3}{4}$ inch for all vertical guardrail components.
- f. Use MS square pipe 1.5 inch for post at every 6 feet interval. PCC foundation should be 1'6" deep in the ground with use of rebars.

- g. Gaps: 4 inches maximum between vertical rails on the guardrail and the metal doors. There should be maximum 4-inch gap between the bottom of the rail and the ground.
- h. Install self-closing door hinges.
- i. Install a latch at 4.5 feet.
- j. Install handles on the gates. Install a bolt to fix one gate on the ground.
- k. Install vertical metal bars only to prevent children from climbing. **Do not install horizontal bars anywhere on the gate or on the fence.**



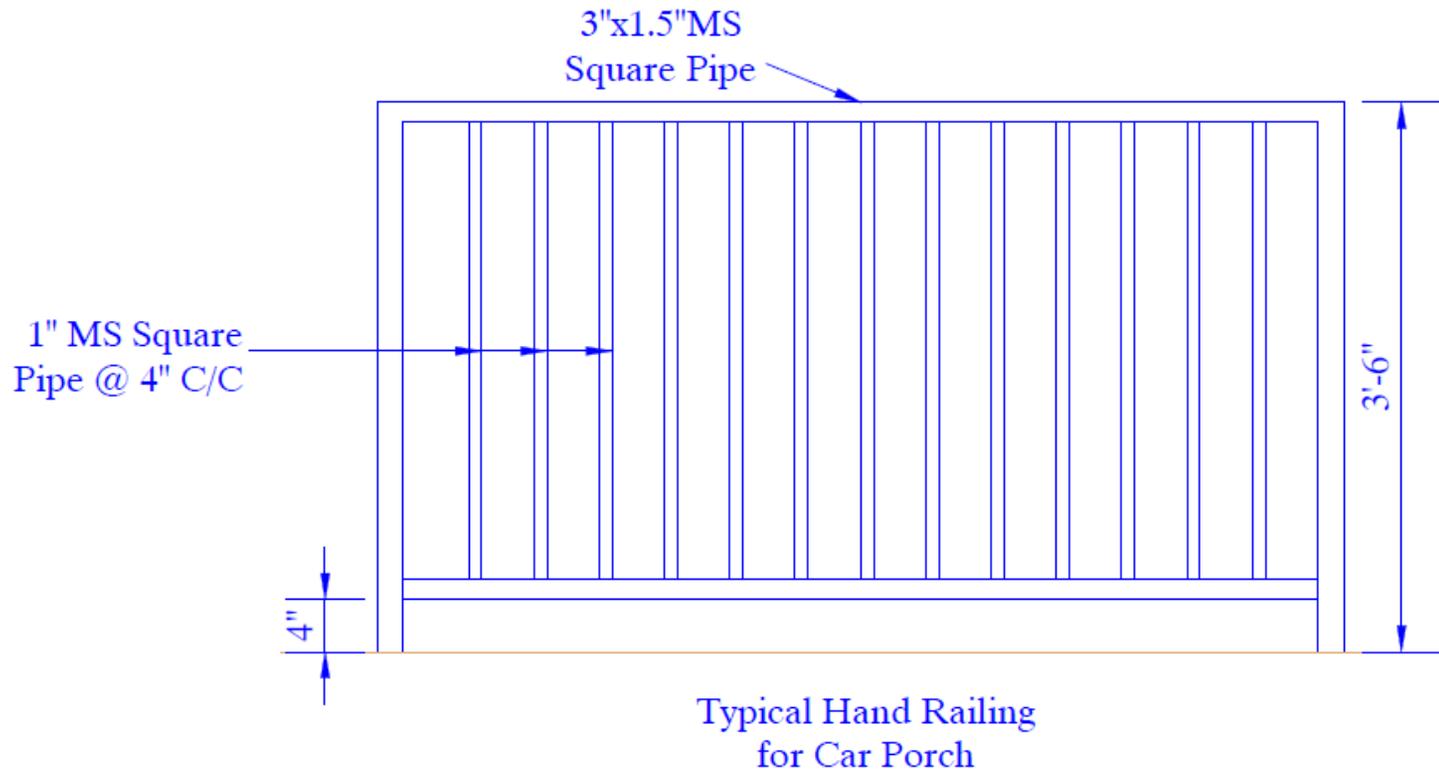
8. **Metal Plate to hide City Transformer:-** East side of the property: There is an energized high tension city line (11KV) with a transformer just 7 feet away from the edge of the compound wall.
 - Install MS metal sheet with metal frame just above the masonry wall behind the statue facing the transformer so that city transformer is not visible from the garden area. Dimension:15 feet x 3 feet, with extended curve on the top, width up to 4 feet on the middle; thickness: 18 gauge. Color: white. Refer to *Safety Drawing 4* for details.



Materials: All metal should be constructed with corrosion-resistant material for protection using Mild Steel (MS) with primer coating and two coat of enamel paint. Paint the metal in **white** color for all new and existing metal used in the guardrails and handrails.

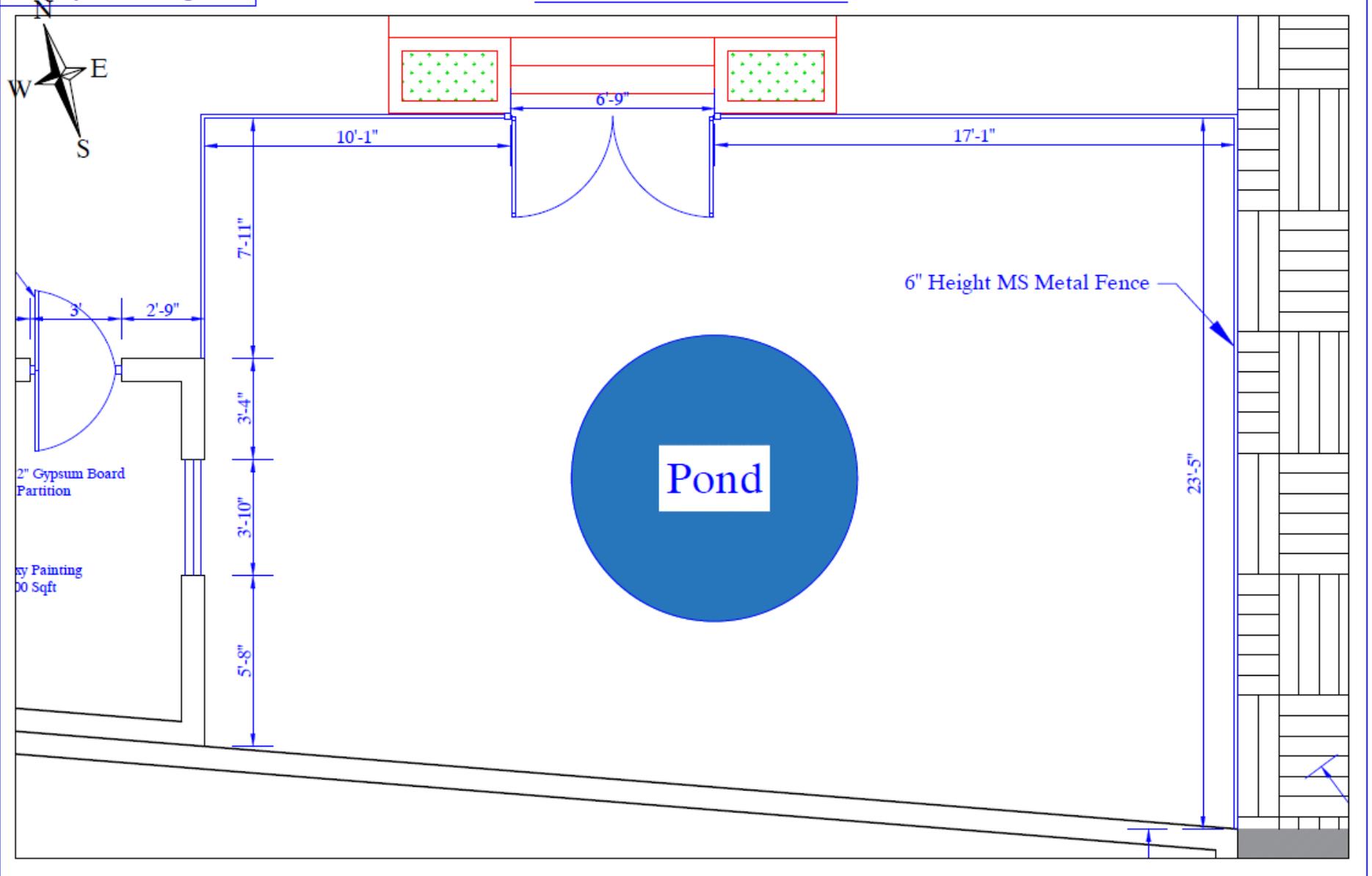
Attachment 1: Water Heater Shed Sample





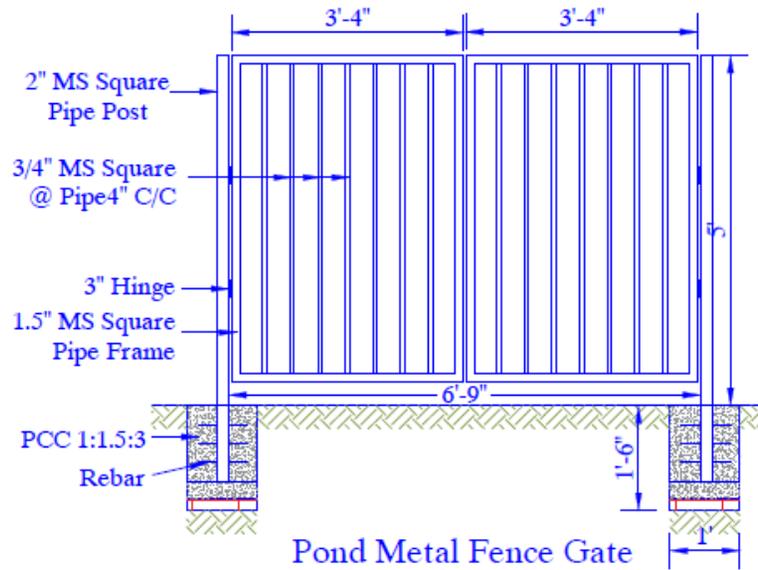
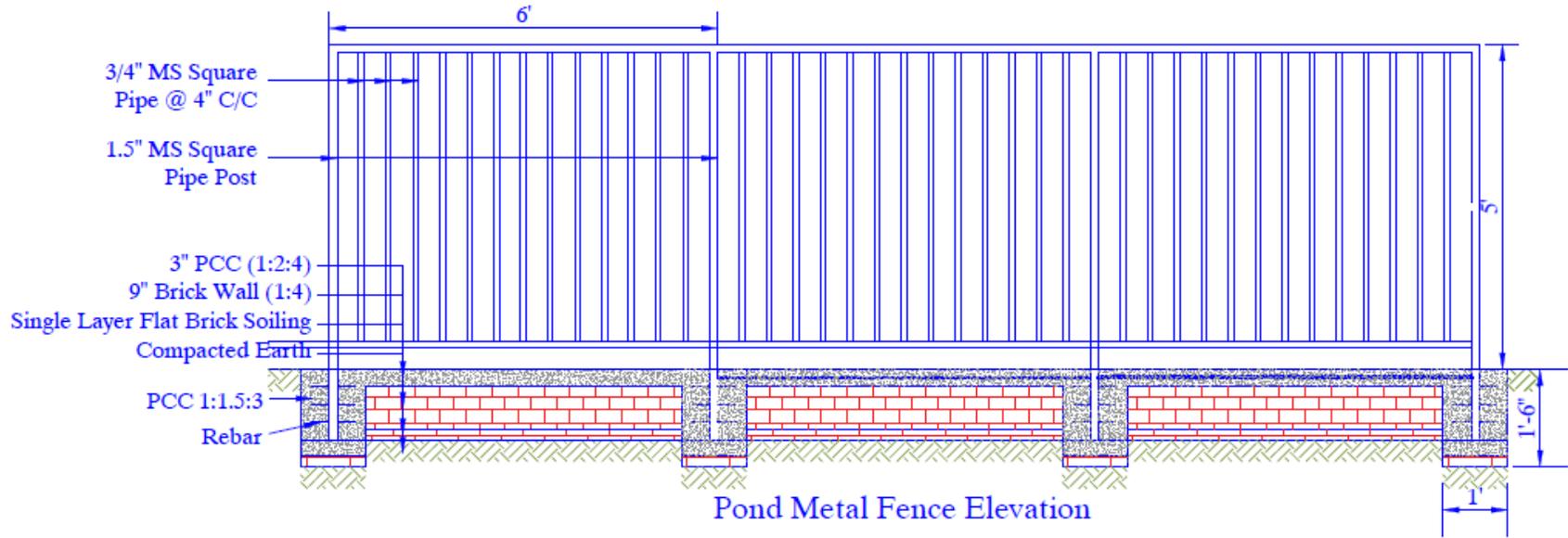
Safety Drawing - 2

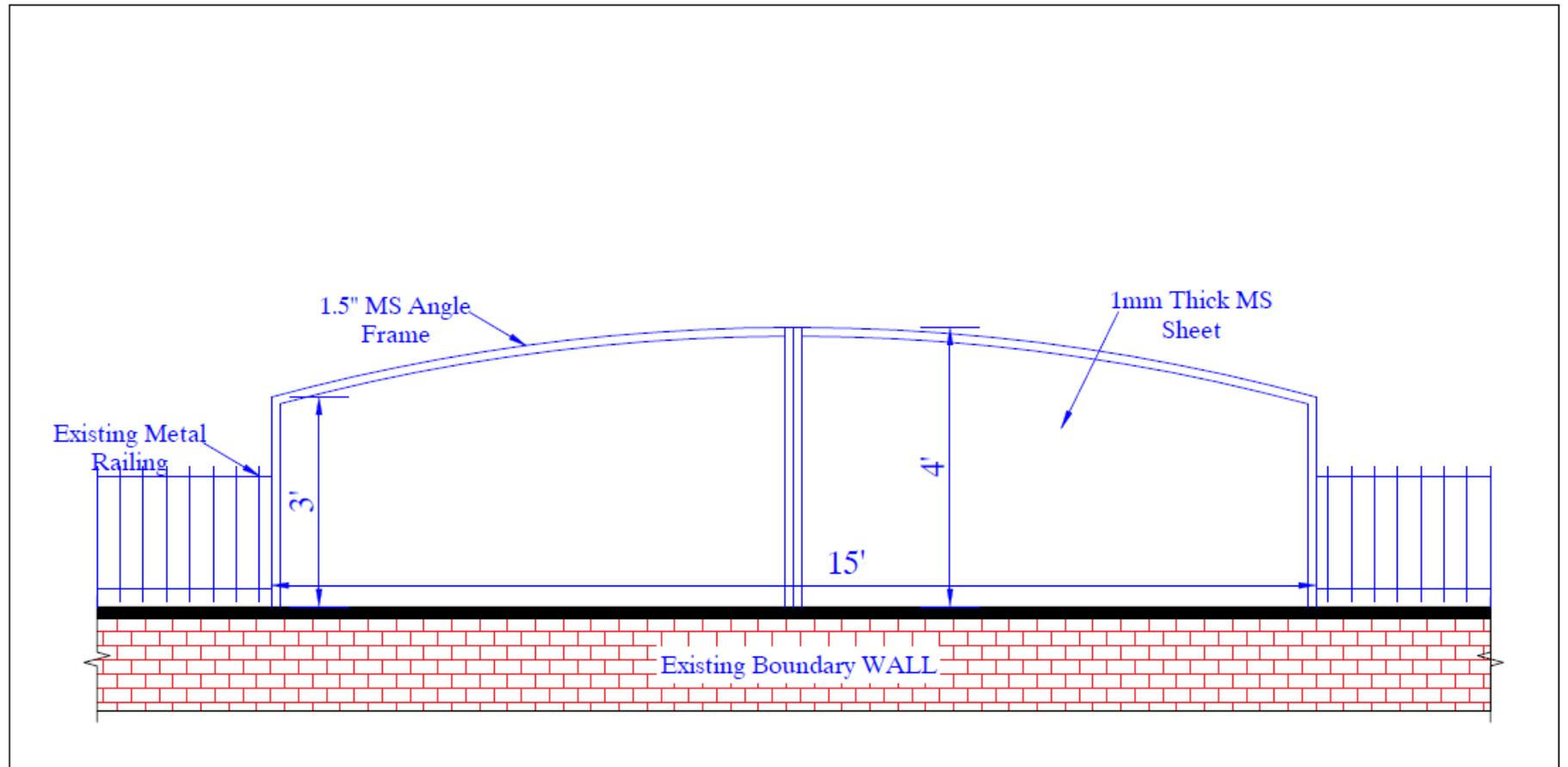
2. Pond Metal Fence Plan



Safety Drawing - 3

3. Pond Metal Fence Elevation and Gate





SOW FOR PAINTING WORK

SCOPE OF WORK

1. Interior Painting Work of Temple House:

- a. All surfaces in the interior of the residence, including walls, ceilings, fixed wooden cabinets, staircases, and exposed conduits/pipes shall be repainted using paint specified below. Contractor will provide for a minimum of one coat of new paint however depending on finish after first coat more coat of paint may be needed to get consistent matching color which will be verified and approved by COR. Emphasis is on one coat of paint as Embassy will be doing interior painting every two year.
- b. All surfaces shall be properly prepared before painting, including the following:
 - i. All loose paint, plaster, dirt, grease or other substance that may prevent paint from adhering properly shall be removed.
 - ii. Paint from previous work in glass, door hinges, curtain rods, electrical fixtures, door frame etc. to be removed before this painting.
 - iii. All fixtures, appliances, locks, hinges, wooden trim should be covered by paper tape to prevent unwanted paint.
 - iv. All nails, fixed cupboards should be removed before actual painting.
 - v. All holes and imperfections in the walls and ceilings shall be patched with putty and smoothed to give the surface an even appearance when painted.
 - vi. Using of MASKING tape is mandatory along the edge when paint surface is joins with other surfaces like door frame, skirting, false ceiling channel etc.
 - vii. Large cracks must be V-grooved out and all other surface defects, such as holes and the like must be repaired using appropriate patching materials to match the surrounding surface profile. Dust surface and spot prime all patched area with the appropriate primer and finish coat
 - viii. Protect all adjacent areas and surfaces during the preparation and painting period (i.e. windows, furniture, computer workstations, chairs, carpet flooring with clean plastic sheets) all materials shall be limited to a designated area, and such space shall be kept clean and orderly at all times. All debris caused by the preparation and painting will be cleaned up at the end of each day
- c. Preparation of scaffolding for the painting work as and when required.
- d. All finished painted surfaces shall be of a single solid color with no bubbling, spotting, or bare areas. The undercoat(s) shall not be visible in any location.
- e. The floors in the pantry and utility/washing rooms shall be painted grey, or as per the visit request.
- f. All ceilings shall be painted egg shell white.
All walls shall be painted egg shell white.
- g. All window grills/bars and other miscellaneous trim shall be repainted in the existing color. This includes ALL painting jobs that can be done from interior of residence to window frame, screen windows, security grilles and interior of main windows.
- h. The gaps of all shapes and sizes in ALL wooden parquet floors and staircases need to be filled by mixture of chalk powder, adhesive glue, and proper color stain as part of surface preparation. Before floor painting, wooden parquet surface should be sanded for smooth and levelled surface. It shall be painted with "chapra polish" and then varnished by medium

gloss varnished. Wood finishes shall be touched up as needed to ensure the surface has a uniform color.

- i. Polishing of wooden furniture and stair railing with linseed oil/varnish/:
 - i. Standard wooden furniture like wall mount wooden closet should be cleaned and polished during this painting work. Polishing requested is for one each of above-mentioned furniture. All the labor, base material, low side consumables, cleaning accessories required to complete the work must be supplied by the contractor.
- j. Enamel Painting (lead free) in door/window frames and shutters:
 - i. Base painting material must be supplied by the contractor.
 - ii. Contractor's service requested is for supply of all the labors needed to complete the work but not limited to supply of all low side material required like thinner, crack sealer, tarpaulin oil, and initial coat of primer as well as necessary tools like rollers, brushes & scaffolding arrangement to complete the work.
 - iii. There will be minimum 2 coat of painting.
- k. All marble floors shall be cleaned to a high shine.
- l. The Contractor should also incorporate weather stripping work in all the doors which have gaps or as directed by COR.
- m. Contractors will have to furnish 5 liters of wall and floor paints after the completion of the work.
- n. Contractor will be asked to do minor touch up after completion of his work but before new occupant's arrival. COR/GTM will inform the contractor at least 3 day prior to this final touch up work.

Total area of interior painting approx. 9926 Sq. Ft

2. Exterior painting and cleaning Work of Temple House:

- a. Contractor must clean all the exterior wall of the main building before painting.
- b. Contractor must paint all the four-side exterior wall of main building with latex base paint.
- c. Contractor must paint all the exterior metal railing with lead free enamel paint.
- d. Contractor must paint interior and exterior of guard room, utility room and local toilet.
- e. Contractor must paint interior and exterior of boundary both the parking lot and main building.
- f. All individual balconies covers patios inside the residence should be cleaned with times.
- g. Contractor shall clean the entire roofs, and roof drainage system; for debris and bird excrements including overgrown bushes if any.
- h. The entire rainwater gutter in the ground level along the perimeter of the house shall be cleaned. This includes all open trenches and visible manholes in external areas of residences.
- i. All the paved areas (except the garden/lawn) should be cleaned by contractor before handover of the job. This includes all concrete area, pathways external to main building.
- j. Contractor will sand/fill and prepare surface for wooden main entrance door of the building with final polishing/painting works.

Total area of exterior painting approx. area is 9575Sq. Ft

3. Paint Material Specification:

Following base painting material or equivalent will be supplied by U.S. Government to the contractor:

- i) Dr. Fixit Elastomeric Stucco Ivory
(See attachment exterior wall paint “application”)



Dr. FXT paint
appl.pdf

This paint is used for exterior painting of Temples.

- ii) DR.FIXIT Crack-X- Paste (for exterior wall)
(See attachment Crack X Paste for Exterior wall surfaces “application”)



Crack-X Paste
appl.pdf

This paste is used for filling the crack surfaces of exterior wall of Temple House.

- iii) Kansai Nerolac (exterior: Excel Total; interior: 24 Carret),
Berger (exterior: All Guard; Interior: Silk/Easy Clean)
Asian Paints (exterior: Epex/Ultima; interior: Premium/Luxury)



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brochure.pdf



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at-longlife.pdf



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Marble.pdf

4. Quality Control

- a. A site supervisor that has a minimal knowledge of English must be present all times at work.
- b. All painting debris will be removed daily.
- c. All painting to match existing site conditions.
- d. Materials, contractor tools and equipment will be properly stored in COR designated storage area.
- e. The COR or the Government Technical Monitor (GTM) will ensure the material is not damaged prior to or during installation and that standard industry practices, as defined by local Building Codes, are always followed.
- f. Contractor will provide paint overspray protection.
- g. A final inspection will be held with the COR and the site supervisor to inspect for quality of completed work.
- h. Consumption log for U.G. Government supplied base painting material will be provided by contractor on daily basis to COR.

SOW FOR AIR CONDITIONING WORK

SCOPE OF WORK

3. Temple House Air-conditioning Work

All the split air-conditioner units both indoor and outdoor are supplied by the US embassy to contractor. Contractor must install air-conditioner with all the required copper pipes, electrical cables, drainpipes and other accessories to meet our standard.

4. Air-conditioning Installation Work:

Install, Testing & Commissioning of Split type air conditioner units with capacity ranging from 1.0 Ton to 2.0 Ton. supplied by US Embassy. Contractor must supply and install copper pipes including all required accessories mentioned in contract.

a) Basement room air-conditioner installation work:

- Contractor must install split type air-conditioner units, 2 ton and 1.5 ton in basement room as shown in drawing with all completes.

b) Dining room air-conditioner installation work:

- Contractor must install split type air-conditioner units 1 ton in dining room as shown in drawing with all completes.

c) First floor guest bedroom air-conditioner installation work:

- Contractor must install split type air-conditioner units 1 ton in guest bedroom as shown in drawing with all completes.

d) First floor living room air-conditioner installation work:

- Contractor must install split type air-conditioner units 2 ton in living room as shown in drawing with all completes.

e) Second floor bedroom (eastside) air-conditioner installation work:

- Contractor must install split type air-conditioner units 1.5 ton in first floor bedroom on eastside as shown in drawing with all completes.

f) Second floor bedroom (westside) air-conditioner installation work:

- Contractor must install split type air-conditioner units 1.5 ton in first floor bedroom on westside as shown in drawing with all completes.

g) Second family room air-conditioner installation work:

- Contractor must install split type air-conditioner units 1.5ton in family room as shown in drawing with all completes.

h) Second floor master bedroom air-conditioner installation work:

- Contractor must install split type air-conditioner units 2 ton in first floor bedroom as shown in drawing with all completes.

i) Third floor bedroom air-conditioner installation work:

- Contractor must install split type air-conditioner units 1.5 ton in first floor bedroom as shown in drawing with all completes.
- j) **Guard room air-conditioner installation work:**
 - Contractor must install split type air-conditioner units 1 ton in first floor bedroom as shown in drawing with all completes.

5. General Terms and Conditions for the Air-conditioner Installation Work:

1. Contractor is responsible to touch up and paint the surfaces of the walls, ceiling/floors after the completion of the work. The surface should be matching to the landlord's original finish in terms of color and quality.
2. Contractor must clean the job site after completion of the works and must remove thrash/debris resulting from their work.
3. Awarded contractor must guarantee the workmanship and material supplied for these works for one year from the date of billing to US Embassy.
4. Contractor will follow the safety requirements that US Embassy may require during the installation works.
5. All the cables must be inside the conduit firmly attached to the wall.
6. All the material used (cables, pipes & fitting, insulation, electrical components etc.) should be of reputed make and quality mentioned below in specification.
7. All the work should be completed within 25 days from notice to proceed from Embassy.
8. Contractor should complete installation of indoor and outdoor units, must flush and Perform pressure testing with Nitrogen gas by holding gas pressure 400 psi for 24hours.
9. Contractor should have to verify Nitrogen gas pressure with Embassy representative prior to start Evacuation and commissioning works.
10. All condensate Pipelines must insulate and use CPVC pipeline for condensate lines with proper fittings and supports.
11. Contractor must use proper size and brand of copper cables mentioned in specification.
12. Contractor should supply and install Heavy duty condensing unit bracket coating with power coated paint. Must use 6 nos. of concrete anchor bolts of make by Hilti.
13. All copper pipelines and accessories must lay inside the PVC duct.
14. Location of indoor and outdoor units are shown in drawing and COR will notify the contractor if the location requires to change.

6. Specification of materials and Recommended Make and Brands:

4.1 Copper pipe of different sizes:

S.N.	Copper pipe size	Wall thickness	Recommended Brand	Remarks
1.	6.35 mm	0.8 mm	Make by Mueller	
2.	9.58mm	0.8 mm	Make by Mueller	
3.	12.7 mm	0.8 mm	Make by Mueller	
4.	15.8mm	0.8 mm	Make by Mueller	

4.2 Closed cell Nitrile rubber tube insulation (tube insulation).

1.	Insulation tubes of required sizes with wall thickness 10mm	Brand- Superlon
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4.3 Condensate Drainpipe

1.	CPVC pipe with fittings 20mm dia.	Brand - Marvel
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4.4 PVC Cable

S.N.	Details	Brand
1.	PVC Insulated 4 Core Copper Cable 2.5 Sq mm Wire (for 1.5 to 2.0 Ton units). Contractor won't splice in electrical wiring.	Make Trishakti or equivalent
2.	PVC Insulated 4 Core Copper Cable 1.5 Sq mm Wire (for 1.0 Ton units)	Make Trishakti or equivalent

4.5 Concrete Anchor Bolt

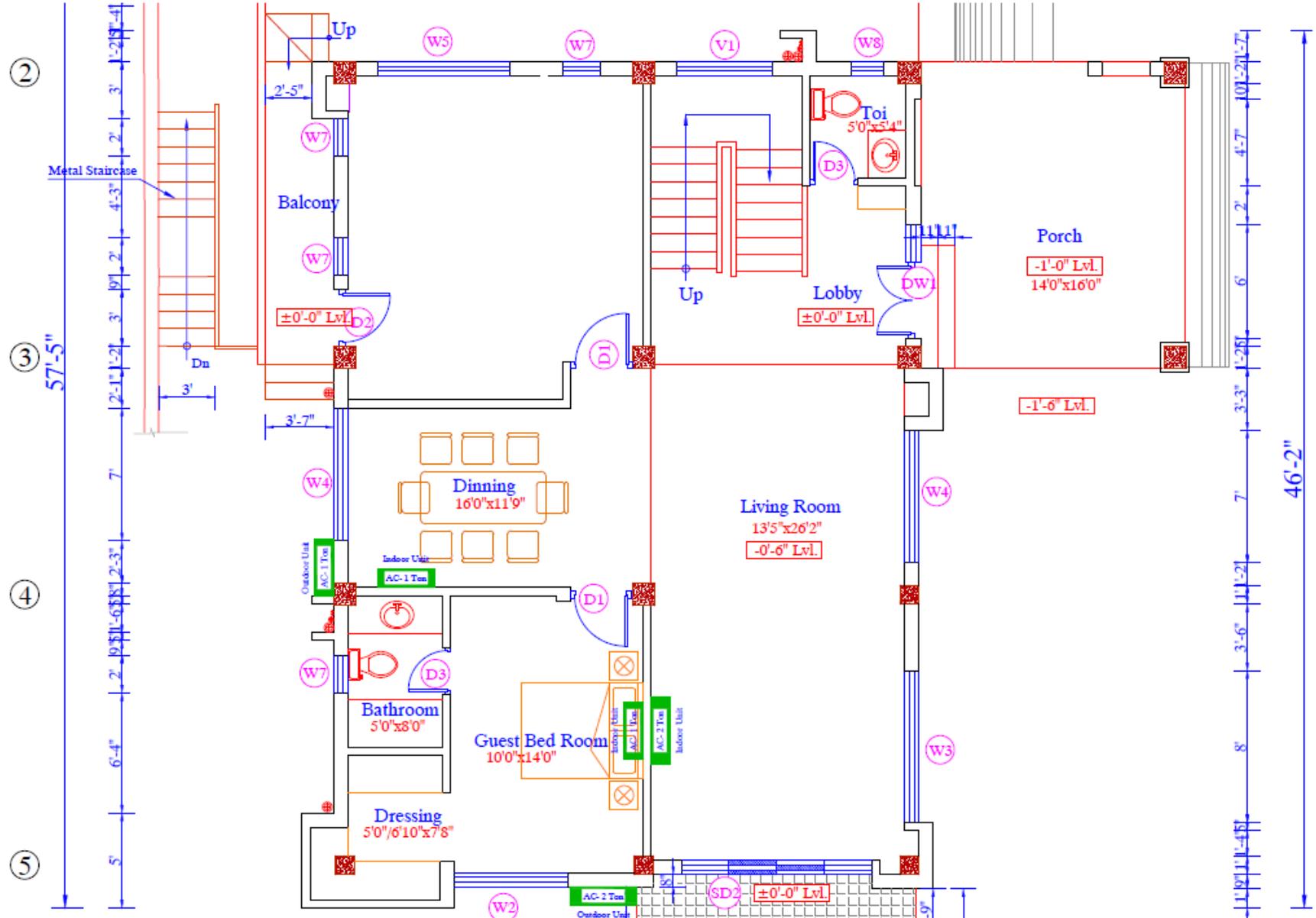
1.	Size of 10mm dia. X 75mm	Brand - Hilti
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4.6 PVC Duct

1.	Rectangular PVC duct of size 2" x3"	Brand- Greenline
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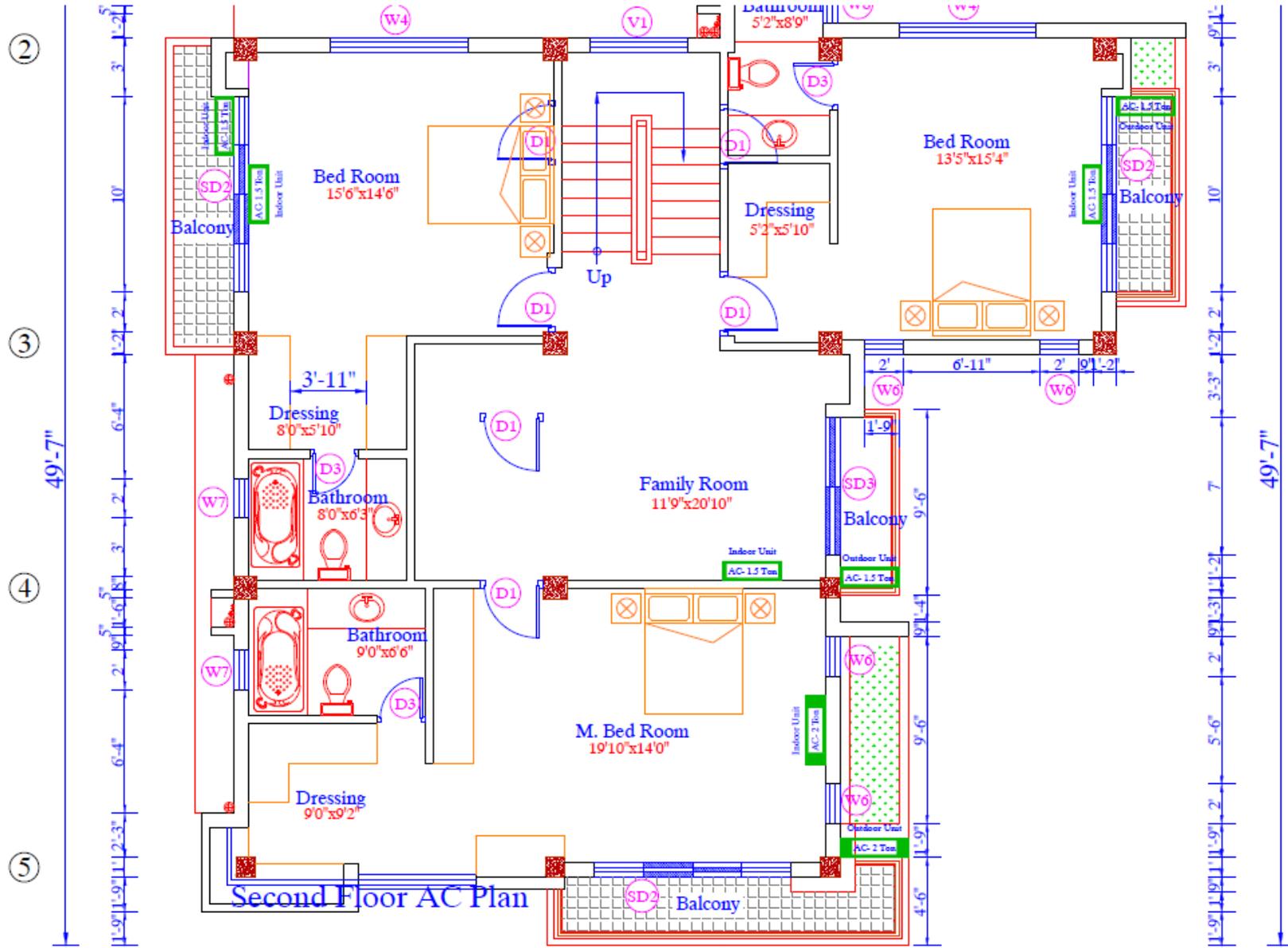
AC Drawing - 2

2. First Floor Air-condition Plan



AC Drawing - 3

3. Second Floor Air-condition Plan



SOW FOR KITCHEN REMODEL

SCOPE OF WORK (SOW)

Kitchen modification work:

- a) The work carried out in the kitchen, as throughout the house, will be of high quality. While “high-quality” is not quantifiable, throughout this project work and progress will be inspected by Embassy representatives (COR, SME, CO, etc.), and all work must pass the work standards and quality of Embassy personnel. All electrical work will meet Embassy standards, which are based on the International Building Codes and the National Electrical Code (NEC) of the United States.
- b) The kitchen area will be isolated from the other parts of the house using heavy plastic sheeting secured at the ceiling and floor. This barrier will ensure construction debris and the dust created by the work is contained in the kitchen area.
- c) All existing cabinetry in the kitchen needs to be removed. Existing cabinetry includes all kitchen cabinetry except the built-in cabinet at the Northwest corner of the kitchen.
- d) The existing cabinetry that contains the sink and the upper cabinets for the sink area will be reused and reinstalled in the utility building. Therefore, care must be taken when they are removed. Care needs to be taken when removing all the kitchen cabinets as their condition will be evaluated and acceptable pieces will be installed/repurposed in the laundry room.
- e) All flooring will need to be removed in the kitchen. Note: The pantry floor is painted concrete.
- f) The wall between kitchen and the pantry needs to be removed to expand the kitchen. There is also another wall that separates the pantry from the entry to the kitchen from the living room, perpendicular to the back wall (eastern wall) of the pantry, that needs to be removed.
- g) The doorway from the living room area into the kitchen is currently located at the southeast corner of the kitchen. This door needs to be removed and relocated to the southernmost wall of the same corner (see drawings), so that the new entrance to the kitchen from the other rooms of the house would be through the dining room. A wall will be constructed where the entry door is currently situated; running north from the column to the existing back wall of the pantry. The kitchen door will be reused and placed so that it allows access from the dining area into the kitchen. The hinge point (hinge is a pivot pin approximately 5” (13 cm) from the edge of the door - exact measurements will be taken from the door itself) for the door will be placed so that the door opens towards the newly added north to south wall added at the entrance of the kitchen.
- h) Along the southern edge of the kitchen (where the kitchen abuts to the dining room), there is an existing wall that extends from the western outside wall of the house (this is where the back of the refrigerator currently sits). A continuation of this wall will be constructed so that wall will extended approximately be constructed from the southwest

corner of the kitchen to behind the refrigerator opening will be extended for approximately another 8' 5" and a right angle will be made to meet with the existing column. All existing cabinetry for the refrigerator, pass through, and cupboards will be removed. The large existing piece of plexiglass will be carefully removed and left completely undamaged and intact for return to the house's owner. Extreme care will be taken removing all existing cabinetry and cupboards so they can be reused.

- i) Once all cabinets and flooring are removed, walls will be removed as well as the pantry shelves.
- j) Walls will be built as described in Para g) and h).
- k) Window to the right of the kitchen sink (the northmost window on the west wall of the house) needs to be removed and the hole walled in. The existing window frame and window will be removed intact for the Embassy to return to the landlord.
- l) Floor will be leveled, and a non-skid tile will be installed throughout the kitchen.
- m) The preferred color scheme for the kitchen is as follows:

Countertops, backsplashes, and kickplates: Dark green (forest green) granite.

Flooring: Light color, wood grained, non-skid, tile.

Cabinetry: Dark stain on solid wood (kiln dried) with

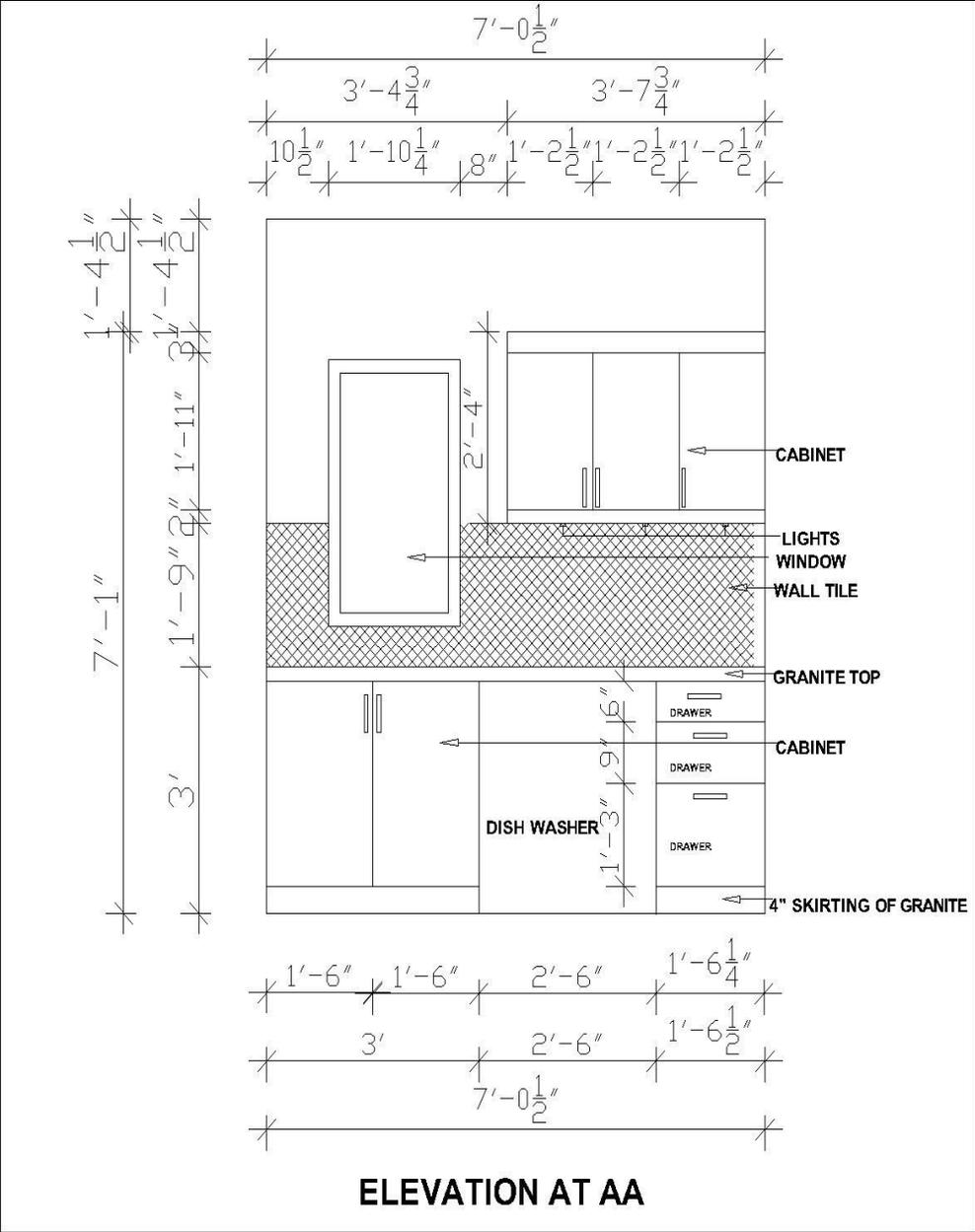
Wall tiling: Light color, moss or sea foam, green.

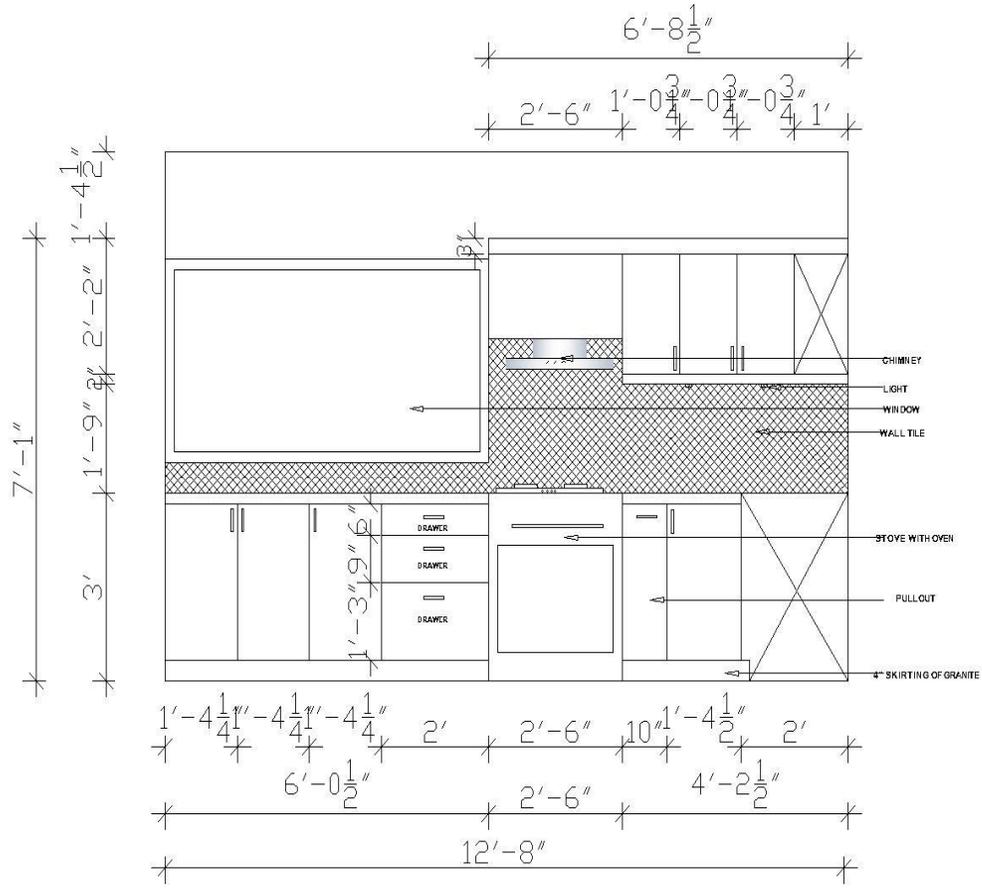
All materials must be approved by the Embassy.

- n) The cabinetry for the kitchen will be made as follows (See drawings of kitchen plan provided):
 1. Refer to overall kitchen plan and elevation AA. Contractor must supply and install wooden cabinets - the floor unit will be Approx. 84" W x 30" D x 36" H (with the granite top, the cabinets will be 36" high), and will have the granite countertop cut out to accommodate a single bowl, a minimum of 18" W x 16" D x 10" H (or deep), undercounter mounted, kitchen sink. The Embassy will supply a dishwasher, but the plumbing and power will have to accommodate the installation of a dishwasher. An upper cabinet of the Approx. Size of 42 1/2" W x 16" D x 28" H will be mounted 21" above the counter (57" from the floor). Refer to drawing AA. There will be one, low profile, 24" fluorescent or LED undercabinet light fixture affixed to the bottom of the upper cabinet providing light to the countertop. The light fixture will have its own switch for turning the fixture on/off.
 2. Refer to overall kitchen plan and elevation BB. The Contractor must supply and install wooden cabinets - the floor units will be approximately 72" W x 30" D x 36" H (with the granite top, the cabinets will be 36" high), and will have a granite countertop. There will be a 30" gap in counter/cabinets for a range/stove (to be provided by the Embassy). There will be no backsplash in this gap as the back of the stove is elevated and has the After the 30" gap, counter will start again with the same depth and height, and run

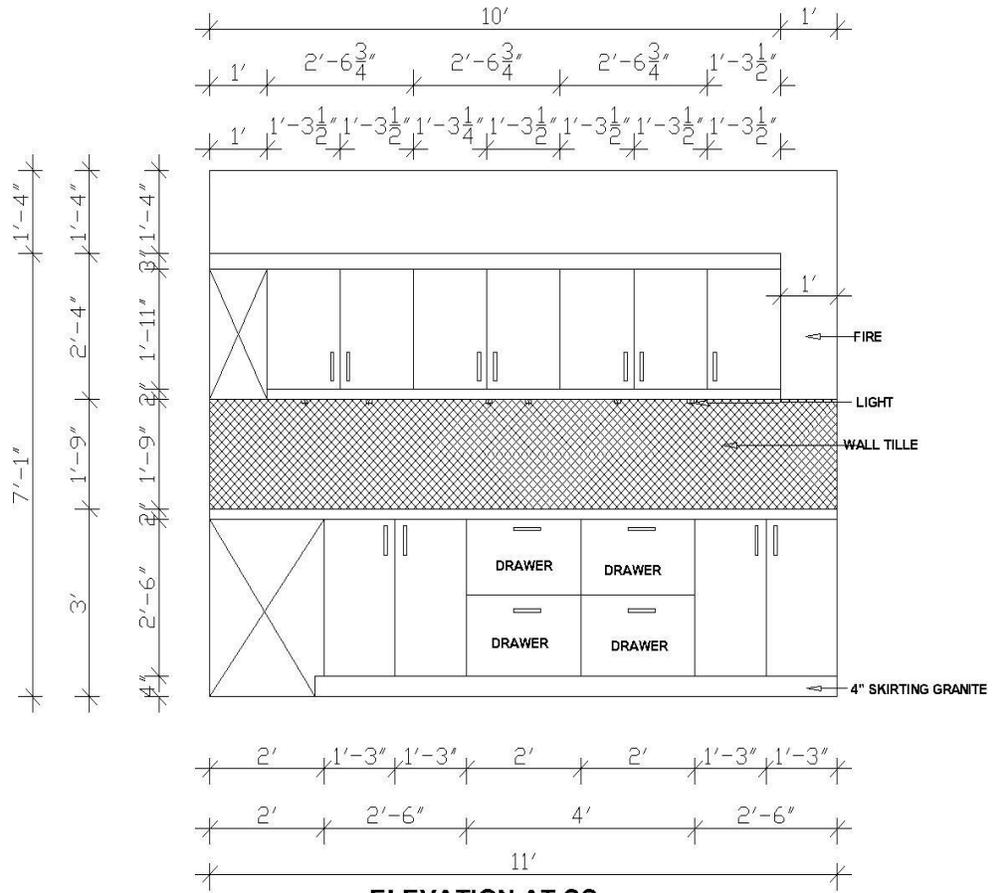
Approx. 48" to the east wall of the kitchen with a granite countertop. (**Approx. Size: 10'8"x2'6"x3'**) to accommodate the US embassy supplied cooking range and top cabinet (**Approx. Size: 3'3"x1'4"x2'2"**) with all complete sets as shown in ELEVATION AT BB (waterproof plywood not less than 18mm). All cabinets are stained wood finish

3. Contractor must supply and install wooden cabinet (**Approx. Size: 9'x2'6"x3'**) to accommodate the US embassy supplied cooking range and top cabinet (**Approx. Size: 9'x1'4"x2'2"**) with all complete sets as shown in ELEVATION AT CC (waterproof plywood not less than 18mm). All cabinets are stained wood finish
 4. Contractor must supply and install wooden cabinet (**Approx. Size: 6'6"x2'6"x3'**) to accommodate the US embassy supplied cooking range, top cabinet (**Approx. Size: 6'6"x1'4"x2'2"**), cupboard board for refrigerator (**Approx. Size: 3'x2'6"x6'2"**) and cabinet on the water distiller (**Approx. Size: 2'2'6"x3'**) with all complete sets as shown in ELEVATION AT DD (waterproof plywood not less than 18mm). All cabinets are stained wood finish
 5. Contractor must supply and install wooden island table (**Approx. Size: 3'6"x2'6"x3'**) with granite top and movable leg as shown in drawing.
- Contractor must supply and install wooden cabinet (**Approx. Size: 3'x1'9"x3'**) to accommodate the washbasin as shown in drawing.
 - o) Contractor must supply and install 30" kitchen hood with appropriate size as approved by COR

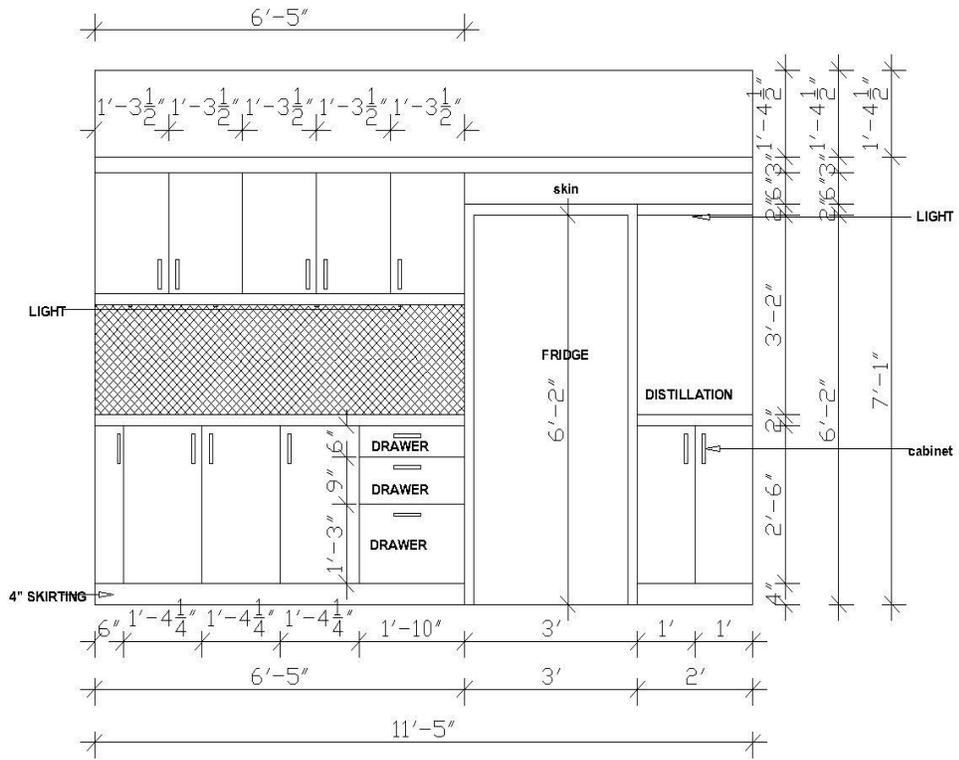




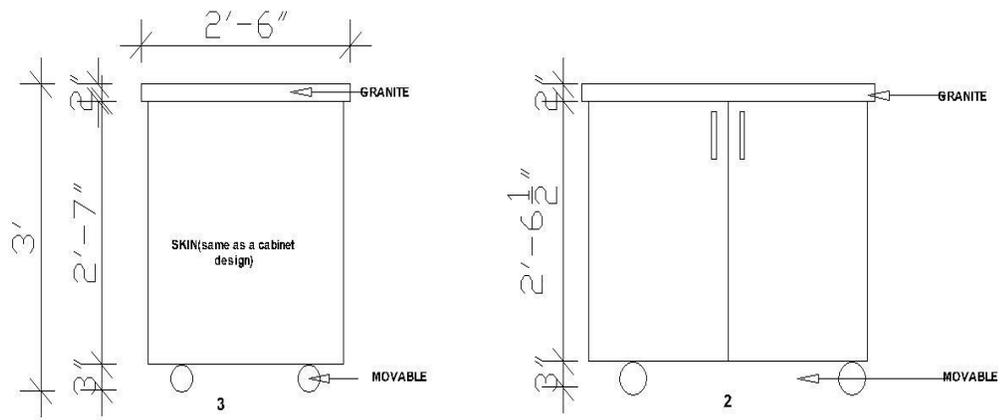
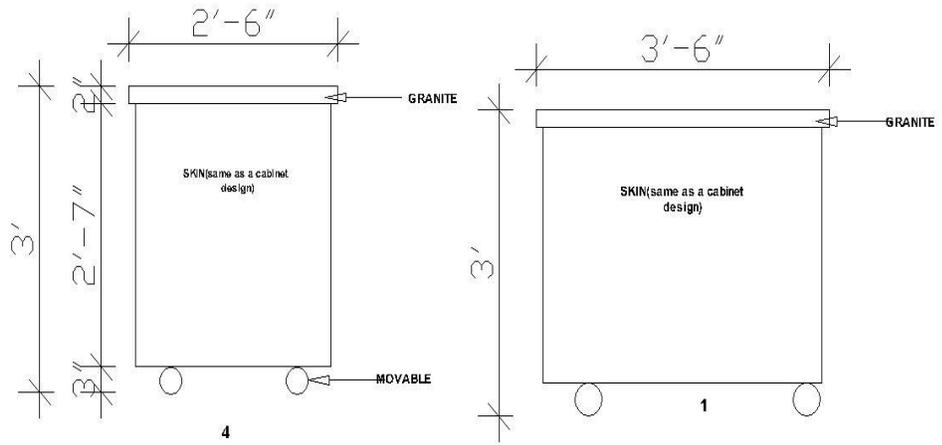
ELEVATION AT BB



ELEVATION AT CC



ELEVATION AT DD



ISLAND 1'-8" 1'-8"

C. INSPECTION AND ACCEPTANCE

The COR, or his/her authorized representatives, will inspect the services being performed and the supplies furnished to determine whether work is being performed in a satisfactory manner, and that all supplies are of acceptable quality and standards.

The Contractor shall be responsible for any countermeasures or corrective action, within the scope of this contract, which may be required by the Contracting Officer as a result of such inspection.

D.1 SUBSTANTIAL COMPLETION

(a) "*Substantial Completion*" means the stage in the progress of the work as determined and certified by the Contracting Officer in writing to the Contractor, on which the work (or a portion designated by the Government) is sufficiently complete and satisfactory. Substantial completion means that the property may be occupied or used for the purpose for which it is intended, and only minor items such as touch-up, adjustments, and minor replacements or installations remain to be completed or corrected which:

- (1) do not interfere with the intended occupancy or utilization of the work, and
- (2) can be completed or corrected within the time period required for final completion.

(b) The "date of substantial completion" means the date determined by the Contracting Officer or authorized Government representative as of which substantial completion of the work has been achieved.

Use and Possession upon Substantial Completion - The Government shall have the right to take possession of and use the work upon substantial completion. Upon notice by the Contractor that the work is substantially complete (a Request for Substantial Completion) and an inspection by the Contracting Officer or an authorized Government representative (including any required tests), the Contracting Officer shall furnish the Contractor a Certificate of Substantial Completion. The certificate will be accompanied by a Schedule of Defects listing items of work remaining to be performed, completed or corrected before final completion and acceptance. Failure of the Contracting Officer to list any item of work shall not relieve the Contractor of responsibility for complying with the terms of the contract. The Government's possession or use upon substantial completion shall not be deemed an acceptance of any work under the contract.

D.2 FINAL COMPLETION AND ACCEPTANCE

D.2.1 "Final completion and acceptance" means the stage in the progress of the work as determined by the Contracting Officer and confirmed in writing to the Contractor, at which all work required under the contract has been completed in a satisfactory manner, subject to the discovery of defects after final completion, and except for items specifically excluded in the notice of final acceptance.

D.2.2 The "date of final completion and acceptance" means the date determined by the Contracting Officer when final completion of the work has been achieved, as indicated by written notice to the Contractor.

D.2.3 FINAL INSPECTION AND TESTS. The Contractor shall give the Contracting Officer at least five (5) days advance written notice of the date when the work will be fully completed and ready for final inspection and tests. Final inspection and tests will be started not later than the date specified in the notice unless the Contracting Officer determines that the work is not ready for final inspection and so informs the Contractor.

D.2.4 FINAL ACCEPTANCE. If the Contracting Officer is satisfied that the work under the contract is complete (with the exception of continuing obligations), the Contracting Officer shall issue to the Contractor a notice of final acceptance and make final payment upon:

- Satisfactory completion of all required tests,
- A final inspection that all items by the Contracting Officer listed in the Schedule of Defects have been completed or corrected and that the work is finally complete (subject to the discovery of defects after final completion), and
- Submittal by the Contractor of all documents and other items required upon completion of the work, including a final request for payment (Request for Final Acceptance).

E. DELIVERIES OR PERFORMANCE

52.211-10 COMMENCEMENT, PROSECUTION, AND COMPLETION OF WORK (APR 1984)

The Contractor shall be required to:

- (a) commence work under this contract within **5 (Five)** calendar days after the date the Contractor receives the notice to proceed,
- (b) prosecute the work diligently, and,
- (c) complete the entire work ready for use not later than **May 1st 2020**.

The time stated for completion shall include final cleanup of the premises.

52.211-12 LIQUIDATED DAMAGES - CONSTRUCTION (SEPT 2000)

(a) If the Contractor fails to complete the work within the time specified in the contract, or any extension, the Contractor shall pay liquidated damages to the Government in the amount of **NPR 10,000.00** for each calendar day of delay until the work is completed or accepted.

(b) If the Government terminates the Contractor's right to proceed, liquidated damages will continue to accrue until the work is completed. These liquidated damages are in addition to excess costs of repurchase under the Default clause.

CONTRACTOR'S SUBMISSION OF CONSTRUCTION SCHEDULES

(a) The time for submission of the schedules referenced in FAR 52.236-15, "Schedules for Construction Contracts", paragraph (a), is hereby modified to reflect the due date for submission as " **5 (five)** calendar days after receipt of an executed contract".

(b) These schedules shall include the time by which shop drawings, product data, samples and other submittals required by the contract will be submitted for approval.

(c) The Contractor shall revise such schedules (1) to account for the actual progress of the work, (2) to reflect approved adjustments in the performance schedule, and (3) as required by the Contracting Officer to achieve coordination with work by the Government and any separate contractors used by the Government. The Contractor shall submit a schedule, which sequences work so as to minimize disruption at the job site.

(d) All deliverables shall be in the English language and any system of dimensions (English or metric) shown shall be consistent with that used in the contract. No extension of time shall be allowed due to delay by the Government in approving such deliverables if the Contractor has failed to act promptly and responsively in submitting its deliverables. The Contractor shall identify each deliverable as required by the contract.

(e) Acceptance of Schedule: When the Government has accepted any time schedule; it shall be binding upon the Contractor. The completion date is fixed and may be extended only by a written contract modification signed by the Contracting Officer. Acceptance or approval of any schedule or revision thereof by the Government shall not:

- (1) Extend the completion date or obligate the Government to do so,
- (2) Constitute acceptance or approval of any delay, or
- (3) Excuse the Contractor from or relieve the Contractor of its obligation to maintain the progress of the work and achieve final completion by the established completion date.

NOTICE OF DELAY

If the Contractor receives a notice of any change in the work, or if any other conditions arise which are likely to cause or are actually causing delays which the Contractor believes may result in late completion of the project, the Contractor shall notify the Contracting Officer. The Contractor's notice shall state the effect, if any, of such change or other conditions upon the approved schedule, and shall state in what respects, if any, the relevant schedule or the completion date should be revised. The Contractor shall give such notice promptly, not more than ten (10) days after the first event giving rise to the delay or prospective delay. Only the Contracting Officer may make revisions to the approved time schedule.

NOTICE TO PROCEED

- (a) After receiving and accepting any bonds or evidence of insurance, the Contracting Officer will provide the Contractor a Notice to Proceed. The Contractor must then prosecute the work, commencing and completing performance not later than the time period established in the contract.
- (b) It is possible that the Contracting Officer may elect to issue the Notice to Proceed before receipt and acceptance of any bonds or evidence of insurance. Issuance of a Notice to Proceed by the Government before receipt of the required bonds or insurance certificates or policies shall not be a waiver of the requirement to furnish these documents.

WORKING HOURS

The contractor shall coordinate any changes to the work hours of the project with the COR at least two weeks in advance. The contractor is expected to work at least eight hours per day and will be able to work from 7:00 AM until 7:00 PM, 7 days a week.

PRECONSTRUCTION CONFERENCE

A preconstruction conference will be held **3 days** after contract award at **US Embassy, Maharajgunj, Kathamandu, Nepal** to discuss the schedule, submittals, notice to proceed, mobilization and other important issues that effect construction progress. See FAR 52.236-26, Preconstruction Conference.

DELIVERABLES - The following items shall be delivered under this contract:			
<u>Description</u>	<u>QTY.</u>	<u>Deliver Date</u>	<u>Deliver To</u>
Section G. Securities/Insurance	1	10 days after award	CO
Section E. Construction Schedule	1	Attach with Solicitation	CO
Section E. Preconstruction Conference	1	10 days after award	COR
Section G. Personnel Biographies	1	Attach with Solicitation	C
Section F. Payment Request	1	Last calendar day of each month	COR
Section D. Request for Substantial Completion	1	15 days before inspection	COR
Section D. Request for Final Acceptance	1	5 days before inspection	COR

F. ADMINISTRATIVE DATA

652.242-70 CONTRACTING OFFICER'S REPRESENTATIVE (COR) (AUG 1999)

(a) The Contracting Officer may designate in writing one or more Government employees, by name or position title, to take action for the Contracting Officer under this contract. Each designee shall be identified as a Contracting Officer's Representative (COR). Such designation(s) shall specify the scope and limitations of the authority so delegated; provided, that the designee shall not change the terms or conditions of the contract, unless the COR is a warranted Contracting Officer and this authority is delegated in the designation.

(b) The COR for this contract is Mr. Saroj K. Shrestha, FAC.

Payment: The Contractor's attention is directed to Section H, 52.232-5, "Payments Under Fixed-Price Construction Contracts". The following elaborates on the information contained in that clause.

Requests for payment, may be made no more frequently than monthly. Payment requests shall cover the value of labor and materials completed and in place, including a prorated portion of overhead and profit.

After receipt of the Contractor's request for payment, and on the basis of an inspection of the work, the Contracting Officer shall make a determination as to the amount, which is then due. If the Contracting Officer does not approve payment of the full amount applied for, less the retainage allowed by in 52.232-5, the Contracting Officer shall advise the Contractor as to the reasons.

Under the authority of 52.232-27(a), the 14 day period identified in FAR 52.232-27(a)(1)(i)(A) is hereby changed to 30 days.

Please forward original invoice to below address and soft copy to KDUPMTInquiry@state.gov and CC to maskeys@state.gov

Finance Management Office US Embassy, Maharajgunj, Kathmandu Nepal PO Box. 295

The Contractor shall show Value Added Tax (VAT) as a separate item on invoices submitted for payment.

G. SPECIAL REQUIREMENTS

G.2.0 INSURANCE - The Contractor is required by FAR 52.228-5, "Insurance - Work on a Government Installation" to provide whatever insurance is legally necessary. The Contractor shall at its own expense provide and maintain during the entire performance period the following insurance amounts:

G.2.1 GENERAL LIABILITY (includes premises/operations, collapse hazard, products, completed operations, contractual, independent contractors, broad form property damage, personal injury) :

(1) BODILY INJURY, ON OR OFF THE SITE, IN U.S. DOLLARS	
Per Occurrence	NPR 100000.00
Cumulative	NPR 500000.00
(2) PROPERTY DAMAGE, ON OR OFF THE SITE, IN U.S. DOLLARS	
Per Occurrence	NPR 100000.00
Cumulative	NPR 500000.00

G.2.2 The foregoing types and amounts of insurance are the minimums required. The Contractor shall obtain any other types of insurance required by local law or that are ordinarily or customarily obtained in the location of the work. The limit of such insurance shall be as provided by law or sufficient to meet normal and customary claims.

G.2.3 The Contractor agrees that the Government shall not be responsible for personal injuries or for damages to any property of the Contractor, its officers, agents, servants, and employees, or any other person, arising from and incident to the Contractor's performance of this contract. The Contractor shall hold harmless and indemnify the Government from any and all claims arising therefrom, except in the instance of gross negligence on the part of the Government.

G.2.4 The Contractor shall obtain adequate insurance for damage to, or theft of, materials and equipment in insurance coverage for loose transit to the site or in storage on or off the site.

G.2.5 The general liability policy required of the Contractor shall name "the United States of America, acting by and through the Department of State", as an additional insured with respect to operations performed under this contract.

G.3.0 DOCUMENT DESCRIPTIONS

G.3.1 SUPPLEMENTAL DOCUMENTS: The Contracting Officer shall furnish from time to time such detailed drawings and other information as is considered necessary, in the opinion of the Contracting Officer, to interpret, clarify, supplement, or correct inconsistencies, errors or omissions in the Contract documents, or to describe minor changes in the work not involving an increase in the contract price or extension of the contract time. The Contractor shall comply with the requirements of the supplemental documents, and unless prompt objection is made by the Contractor within 20 days, their issuance shall not provide for any claim for an increase in the Contract price or an extension of contract time.

G.3.1.1. RECORD DOCUMENTS. The Contractor shall maintain at the project site:

- (1) a current marked set of Contract drawings and specifications indicating all interpretations and clarification, contract modifications, change orders, or any other departure from the contract requirements approved by the Contracting Officer; and,
- (2) a complete set of record shop drawings, product data, samples and other submittals as approved by the Contracting Officer.

G.3.1.2 "As-Built" Documents: After final completion of the work, but before final acceptance thereof, the Contractor shall provide:

- (1) a complete set of "as-built" drawings, based upon the record set of drawings, marked to show the details of construction as actually accomplished; and,
- (2) record shop drawings and other submittals, in the number and form as required by the specifications.

G.4.0 LAWS AND REGULATIONS - The Contractor shall, without additional expense to the Government, be responsible for complying with all laws, codes, ordinances, and regulations applicable to the performance of the work, including those of the host country, and with the lawful orders of any governmental authority having jurisdiction. Host country authorities may not enter the construction site without the permission of the Contracting Officer. Unless otherwise directed by the Contracting Officer, the Contractor shall comply with the more stringent of the requirements of such laws, regulations and orders and of the contract. In the event of a conflict between the contract and such laws, regulations and orders, the Contractor shall promptly advise the Contracting Officer of the conflict and of the Contractor's proposed course of action for resolution by the Contracting Officer.

G.4.1 The Contractor shall comply with all local labor laws, regulations, customs and practices pertaining to labor, safety, and similar matters, to the extent that such compliance is not inconsistent with the requirements of this contract.

G.4.2 The Contractor shall give written assurance to the Contracting Officer that all subcontractors and others performing work on or for the project have obtained all requisite licenses and permits.

G.4.3 The Contractor shall submit proper documentation and evidence satisfactory to the Contracting Officer of compliance with this clause.

G.5.0 CONSTRUCTION PERSONNEL - The Contractor shall maintain discipline at the site and at all times take all reasonable precautions to prevent any unlawful, riotous, or disorderly conduct by or among those employed at the site. The Contractor shall ensure the preservation of peace and protection of persons and property in the neighborhood of the project against such action. The Contracting Officer may require, in writing that the Contractor remove from the work any employee that the Contracting Officer deems incompetent, careless, insubordinate or otherwise objectionable, or whose continued employment on the project is deemed by the Contracting Officer to be contrary to the Government's interests.

G.5.1 If the Contractor has knowledge that any actual or potential labor dispute is delaying or threatens to delay the timely performance of this contract, the Contractor shall immediately give notice, including all relevant information, to the Contracting Officer.

G.5.2 After award, the Contractor has ten calendar days to submit to the Contracting Officer a list of workers and supervisors assigned to this project for the Government to conduct all necessary security checks. It is anticipated that security checks will take **10 days** days to perform. For each individual the list shall include (However, contractor also requires to submit list of workers with submitting solicitation) :

Full Name
Place and Date of Birth
Current Address
Citizenship Card

Failure to provide any of the above information may be considered grounds for rejection and/or resubmittal of the application. Once the Government has completed the security screening and approved the applicants a badge will be provided to the individual for access to the site. This badge may be revoked at any time due to the falsification of data, or misconduct on site.

G.5.3 The Contractor shall provide an English speaking supervisor on site at all times. This position is considered as key personnel under this purchase order.

G.6.0 Materials and Equipment - All materials and equipment incorporated into the work shall be new and for the purpose intended, unless otherwise specified. All workmanship shall be of good quality and performed in a skillful manner that will withstand inspection by the Contracting Officer.

G.7.0 SPECIAL WARRANTIES

G.7.1 Any special warranties that may be required under the contract shall be subject to the stipulations set forth in 52.246-21, "Warranty of Construction", as long as they are not in conflict.

G.7.2 The Contractor shall obtain and furnish to the Government all information required to make any subcontractor's, manufacturer's, or supplier's guarantee or warranty legally binding and effective. The Contractor shall submit both the information and the guarantee or warranty to the Government in sufficient time to permit the Government to meet any time limit specified in the guarantee or warranty, but not later than completion and acceptance of all work under this contract.

G.8.0 EQUITABLE ADJUSTMENTS

Any circumstance for which the contract provides an equitable adjustment that causes a change within the meaning of paragraph (a) of the "Changes" clause shall be treated as a change under that clause; provided, that the Contractor gives the Contracting Officer prompt written notice (within 20 days) stating:

- (a) the date, circumstances, and applicable contract clause authorizing an equitable adjustment and
- (b) that the Contractor regards the event as a changed condition for which an equitable adjustment is allowed under the contract

The Contractor shall provide written notice of a differing site condition within 10 calendar days of occurrence following FAR 52.236-2, Differing Site Conditions.

G.9.0 ZONING APPROVALS AND PERMITS

The Government shall be responsible for:

- obtaining proper zoning or other land use control approval for the project
- obtaining the approval of the Contracting Drawings and Specifications
- paying fees due for the foregoing; and,
- for obtaining and paying for the initial building permits.

H. CLAUSES

This contract incorporates one or more clauses by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. Also, the full text of a clause may be accessed electronically at this/these address(es): <http://www.acquisition.gov/far/> or <http://farsite.hill.af.mil/offara.htm>. Please note these addresses are subject to change.

If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use the Department of State Acquisition website at [https://www.ecfr.gov/cgi-bin/text-idx?SID=2e978208d0d2aa44fb9502725ecac4e5&mc=true&tpl=/ecfrbrowse/Title48/48chapter6.t](https://www.ecfr.gov/cgi-bin/text-idx?SID=2e978208d0d2aa44fb9502725ecac4e5&mc=true&tpl=/ecfrbrowse/Title48/48chapter6.tpl) to access links to the FAR. You may also use an internet "search engine" (for example, Google, Yahoo, Excite) to obtain the latest location of the most current FAR.

The following Federal Acquisition Regulation clause(s) is/are incorporated by reference (48 CFR CH. 1):

<u>CLAUSE</u>	<u>TITLE AND DATE</u>
52.202-1	DEFINITIONS (NOV 2013)
X_52.204-9	PERSONAL IDENTITY VERIFICATION OF CONTRACTOR PERSONNEL (JAN 2011)
52.204-10	REPORTING EXECUTIVE COMPENSATION AND FIRST-TIER SUBCONTRACT AWARDS (OCT 2018)
52.204-13	SYSTEM FOR AWARD MANAGEMENT MAINTENANCE (OCT 2018)
52.204-18	COMMERCIAL AND GOVERNMENT ENTITY CODE MAINTENANCE (JUL 2016)
X_52.204-19	INCORPORATION BY REFERENCE OF REPRESENTATIONS AND CERTIFICATIONS (DEC 2014)
52.204-25	PROHIBITION ON CONTRACTING FOR CERTAIN TELECOMMUNICATION AND VIDEO SURVEILLANCE SERVICES OR EQUIPMENT (AUG 2019)
52.209-6	PROTECTING THE GOVERNMENT'S INTEREST WHEN SUBCONTRACTING WITH CONTRACTORS DEBARRED, SUSPENDED OR PROPOSED FOR DEBARMENT (OCT 2015)

- 52.209-9 UPDATES OF PUBLICLY AVAILABLE INFORMATION REGARDING RESPONSIBILITY MATTERS (JUL 2013)
- 52.213-4 TERMS AND CONDITIONS-SIMPLIFIED ACQUISITIONS (OTHER THAN COMMERCIAL ITEMS) (AUG 2019)
- 52.216-7 ALLOWABLE COST AND PAYMENT (JUN 2013)
- 52.222-1 NOTICE TO THE GOVERNMENT OF LABOR DISPUTES (FEB 1997)
- 52.222-19 CHILD LABOR - COOPERATION WITH AUTHORITIES AND REMEDIES (JAN 2018)
- X_52.222-50 COMBATING TRAFFICKING IN PERSONS (FEB 2009)
- 52.223-18 ENCOURAGING CONTRACTOR POLICIES TO BAN TEXT MESSAGING WHILE DRIVING (AUG 2011)
- 52.225-13 RESTRICTIONS ON CERTAIN FOREIGN PURCHASES (JUNE 2008)
- 52.225-14 INCONSISTENCY BETWEEN ENGLISH VERSION AND TRANSLATION OF CONTRACT (FEB 2000)
- X_52.228-4 WORKERS' COMPENSATION AND WAR-HAZARD INSURANCE OVERSEAS (APR 1984)
- 52.228-5 INSURANCE - WORK ON A GOVERNMENT INSTALLATION (JAN 1997)
- 52.228-11 PLEDGES OF ASSETS (JAN 2012)
- 52.228-13 ALTERNATIVE PAYMENT PROTECTION (JULY 2000)
- 52.228-14 IRREVOCABLE LETTER OF CREDIT (NOV 2014)
- 52.229-6 TAXES - FOREIGN FIXED-PRICE CONTRACTS (FEB 2013)
- 52.229-7 TAXES- FIXED PRICE CONTRACTS WITH FOREIGN GOVERNMENTS (FEB 2013)
- 52.232-5 PAYMENTS UNDER FIXED-PRICE CONSTRUCTION CONTRACTS (MAY 2014)
- 52.232-8 DISCOUNTS FOR PROMPT PAYMENT (FEB 2002)
- 52.232-11 EXTRAS (APR 1984)

- 52.232-18 AVAILABILITY OF FUNDS (APR 1984)
- 52.232-22 LIMITATION OF FUNDS (APR 1984)
- 52.232-25 PROMPT PAYMENT (JULY 2013)
- 52.232-27 PROMPT PAYMENT FOR CONSTRUCTION CONTRACTS (MAY 2014)
- 52.232-33 PAYMENT BY ELECTRONIC FUNDS TRANSFER - SYSTEM FOR AWARD MANAGEMENT (OCT 2018)
- 52.232-34 PAYMENT BY ELECTRONIC FUNDS TRANSFER - OTHER THAN SYSTEM FOR AWARD MANAGEMENT (JULY 2013)
- 52.233-1 DISPUTES (MAY 2014) *Alternate I (DEC 1991)*
- 52.233-3 PROTEST AFTER AWARD (AUG 1996)
- 52.236-2 DIFFERING SITE CONDITIONS (APR 1984)
- 52.236-3 SITE INVESTIGATION AND CONDITIONS AFFECTING THE WORK (APR 1984)
- 52.236-5 MATERIAL AND WORKMANSHIP (APR 1984)
- 52.236-6 SUPERINTENDENCE BY THE CONTRACTOR (APR 1984)
- 52.236-7 PERMITS AND RESPONSIBILITIES (NOV 1991)
- 52.236-8 OTHER CONTRACTS (APR 1984)
- 52.236-9 PROTECTION OF EXISTING VEGETATION, STRUCTURES, EQUIPMENT, UTILITIES, AND IMPROVEMENTS (APR 1984)
- 52.236-10 OPERATIONS AND STORAGE AREAS (APR 1984)
- 52.236-11 USE AND POSSESSION PRIOR TO COMPLETION (APR 1984)
- 52.236-12 CLEANING UP (APR 1984)
- 52.236-13 ACCIDENT PREVENTION (NOV 1991)
- 52.236-14 AVAILABILITY AND USE OF UTILITY SERVICES (APR 1984)

- 52.236-15 SCHEDULES FOR CONSTRUCTION CONTRACTS (APR 1984)
- 52.236-21 SPECIFICATIONS AND DRAWINGS FOR CONSTRUCTION (FEB 1997)
- 52.236-26 PRECONSTRUCTION CONFERENCE (FEB 1995)
- 52.242-14 SUSPENSION OF WORK (APR 1984)
- 52.243-4 CHANGES (JUN 2007)
- 52.243-5 CHANGES AND CHANGED CONDITIONS (APR 1984)
- 52.244-6 SUBCONTRACTS FOR COMMERCIAL ITEMS (AUG 2018)
- 52.245-2 GOVERNMENT PROPERTY INSTALLATION OPERATION SERVICES (APR 2012)
- 52.245-9 USE AND CHARGES (APR 2012)
- 52.246-12 INSPECTION OF CONSTRUCTION (AUG 1996)
- 52.246-17 WARRANTY OF SUPPLIES OF A NONCOMPLEX NATURE (JUN 2003)
- 52.246-21 WARRANTY OF CONSTRUCTION (MAR 1994)
- 52.249-2 TERMINATION FOR CONVENIENCE OF THE GOVERNMENT (FIXED-PRICE) (APR 2012) *Alternate I (SEPT 1996)*
- 52.249-10 DEFAULT (FIXED-PRICE CONSTRUCTION) (APR 1984)
- 52.249-14 EXCUSABLE DELAYS (APR 1984)

The following Department of State Acquisition Regulation (DOSAR) clause(s) is/are set forth in full text:

652.204-70 DEPARTMENT OF STATE PERSONAL IDENTIFICATION CARD ISSUANCE PROCEDURES (MAY 2011)

(a) The Contractor shall comply with the Department of State (DOS) Personal Identification Card Issuance Procedures for all employees performing under this contract who require frequent and continuing access to DOS facilities, or information systems. The Contractor shall insert this clause in all subcontracts when the subcontractor's employees will require frequent and continuing access to DOS facilities, or information systems.

(b) The DOS Personal Identification Card Issuance Procedures may be accessed at <http://www.state.gov/m/ds/rls/rpt/c21664.htm> .

(End of clause)

652.229-71 PERSONAL PROPERTY DISPOSITION AT POSTS ABROAD (AUG 1999)

Regulations at 22 CFR Part 136 require that U.S. Government employees and their families do not profit personally from sales or other transactions with persons who are not themselves entitled to exemption from import restrictions, duties, or taxes. Should the Contractor experience importation or tax privileges in a foreign country because of its contractual relationship to the United States Government, the Contractor shall observe the requirements of 22 CFR Part 136 and all policies, rules, and procedures issued by the chief of mission in that foreign country.

(End of clause)

CONTRACTOR IDENTIFICATION (JULY 2008)

Contract performance may require contractor personnel to attend meetings with government personnel and the public, work within government offices, and/or utilize government email.

Contractor personnel must take the following actions to identify themselves as non-federal employees:

- 1) Use an e-mail signature block that shows name, the office being supported and company affiliation (e.g. "John Smith, Office of Human Resources, ACME Corporation Support Contractor");
- 2) Clearly identify themselves and their contractor affiliation in meetings;
- 3) Identify their contractor affiliation in Departmental e-mail and phone listings whenever contractor personnel are included in those listings; and
- 4) Contractor personnel may not utilize Department of State logos or indicia on business cards.

(End of clause)

652.236-70 ADDITIONAL SAFETY MEASURES (OCT 2017)

In addition to the safety/accident prevention requirements of FAR 52.236-13, Accident Prevention Alternate I, the contractor shall comply with the following additional safety measures.

(a) *High Risk Activities.* If the project contains any of the following high risk activities, the contractor shall follow the section in the latest edition, as of the date of the solicitation, of the U.S. Army Corps of Engineers Safety and Health manual, EM 385-1-1, that corresponds to the high risk activity. Before work may proceed, the contractor must obtain approval from the COR of the written safety plan required by FAR 52.236-13, Accident Prevention Alternate I (see paragraph (f) below), containing specific hazard mitigation and control techniques.

- (1) Scaffolding;
- (2) Work at heights above 1.8 meters;
- (3) Trenching or other excavation greater than one (1) meter in depth;
- (4) Earth-moving equipment and other large vehicles;
- (5) Cranes and rigging;
- (6) Welding or cutting and other hot work;
- (7) Partial or total demolition of a structure;
- (8) Temporary wiring, use of portable electric tools, or other recognized electrical hazards. Temporary wiring and portable electric tools require the use of a ground fault circuit interrupter (GFCI) in the affected circuits; other electrical hazards may also require the use of a GFCI;
- (9) Work in confined spaces (limited exits, potential for oxygen less than 19.5 percent or combustible atmosphere, potential for solid or liquid engulfment, or other hazards considered to be immediately dangerous to life or health such as water tanks, transformer vaults, sewers, cisterns, etc.);
- (10) Hazardous materials - a material with a physical or health hazard including but not limited to, flammable, explosive, corrosive, toxic, reactive or unstable, or any operations, which creates any kind of contamination inside an occupied building such as dust from demolition activities, paints, solvents, etc.; or
- (11) Hazardous noise levels as required in EM 385-1 Section 5B or local standards if more restrictive.

(b) *Safety and Health Requirements.* The contractor and all subcontractors shall comply with the latest edition of the U.S. Army Corps of Engineers Safety and Health manual EM 385-1-1, or OSHA 29 CFR parts 1910 or 1926 if no EM 385-1-1 requirements are applicable, and the accepted contractor's written safety program.

(c) *Mishap Reporting.* The contractor is required to report **immediately** all mishaps to the COR and the contracting officer. A "mishap" is any event causing injury, disease or illness, death, material loss or property damage, or incident causing environmental contamination. The mishap reporting requirement shall include fires, explosions, hazardous materials contamination, and other similar incidents that may threaten people, property, and equipment.

(d) *Records.* The contractor shall maintain an accurate record on all mishaps incident to work performed under this contract resulting in death, traumatic injury, occupational disease, or damage to or theft of property, materials, supplies, or equipment. The contractor shall report this data in the manner prescribed by the contracting officer.

(e) *Subcontracts.* The contractor shall insert this clause, including this paragraph (e), with appropriate changes in the designation of the parties, in subcontracts.

(f) *Written program.* The plan required by paragraph (f)(1) of the clause entitled "Accident Prevention Alternate I" shall be known as the Site Safety and Health Plan (SSHP) and shall address any activities listed in paragraph (a) of this clause, or as otherwise required by the contracting officer/COR.

(1) The SSHP shall be submitted at least 10 working days prior to commencing any activity at the site.

(2) The plan must address developing activity hazard analyses (AHAs) for specific tasks. The AHAs shall define the activities being performed and identify the work sequences, the specific anticipated hazards, site conditions, equipment, materials, and the control measures to be implemented to eliminate or reduce each hazard to an acceptable level of risk. Work shall not begin until the AHA for the work activity has been accepted by the COR and discussed with all engaged in the activity, including the Contractor, subcontractor(s), and Government on-site representatives.

(3) The names of the Competent/Qualified Person(s) required for a particular activity (for example, excavations, scaffolding, fall protection, other activities as specified by EM 385-1-1) shall be identified and included in the AHA. Proof of their competency/qualification shall be submitted to the contracting officer or COR for acceptance prior to the start of that work activity. The AHA shall be reviewed and modified as necessary to address changing site conditions, operations, or change of competent/qualified person(s).
(End of clause)

652.242-73 AUTHORIZATION AND PERFORMANCE (AUG 1999)

(a) The Contractor warrants the following:

(1) That is has obtained authorization to operate and do business in the country or countries in which this contract will be performed;

(2) That is has obtained all necessary licenses and permits required to perform this contract; and,

(3) That it shall comply fully with all laws, decrees, labor standards, and regulations of said country or countries during the performance of this contract.

(b) If the party actually performing the work will be a subcontractor or joint venture partner, then such subcontractor or joint venture partner agrees to the requirements of paragraph (a) of this clause.

(End of clause)

652.243-70 NOTICES (AUG 1999)

Any notice or request relating to this contract given by either party to the other shall be in writing. Said notice or request shall be mailed or delivered by hand to the other party at the address provided in the schedule of the contract. All modifications to the contract must be made in writing by the Contracting Officer.

(End of clause)

J. QUOTATION INFORMATION

A. QUALIFICATIONS OF OFFERORS

Offerors/quoters must be technically qualified and financially responsible to perform the work described in this solicitation. At a minimum, each Offeror/Quoter must meet the following requirements:

- (1) Be able to understand written and spoken English;
- (2) Have an established business with a permanent address and telephone listing;
- (3) Be able to demonstrate prior construction experience with suitable references;
- (4) Have the necessary personnel, equipment and financial resources available to perform the work;
- (5) Have all licenses and permits required by local law;
- (6) Meet all local insurance requirements;
- (7) Have the ability to obtain or to post adequate performance security, such as bonds, irrevocable letters of credit or guarantees issued by a reputable financial institution;
- (8) Have no adverse criminal record; and
- (9) Have no political or business affiliation which could be considered contrary to the interests of the United States.

B. SUBMISSION OF QUOTATIONS

This solicitation is for the performance of the construction services described in SCOPE OF WORK, and the Attachments which are a part of this request for quotation.

Each quotation must consist of the following:		
VOLUME	TITLE	NUMBER OF COPIES*
I	Standard Form 18 including a completed Attachment 4, "BREAKDOWN OF PROPOSAL PRICE BY DIVISIONS OF SPECIFICATIONS	
II	Performance schedule in the form of a "bar chart" and Business Management/Technical Proposal	

Submit the complete quotation to the address indicated. If mailed, on Standard Form 18, or if hand-delivered, use the address set forth below:

Suresh Maskey General Services Office US Embassy, Maharajgunj Kathamndu, Nepal Or, Send a soft copy to maskeys@state.gov
--

The Offeror/Quoter shall identify and explain/justify any deviations, exceptions, or conditional assumptions taken with respect to any of the instructions or requirements of this request for quotation in the appropriate volume of the offer.

Volume II: Performance schedule and Business Management/Technical Proposal.

- (a) Present the performance schedule in the form of a "bar chart" indicating when the various portions of the work will be commenced and completed within the required schedule. This bar chart shall be in sufficient detail to clearly show each segregable portion of work and its planned commencement and completion date.
- (b) The Business Management/Technical Proposal shall be in two parts, including the following information:

Proposed Work Information - Provide the following:

- (1) A list of the names, addresses and telephone numbers of the owners, partners, and principal officers of the Offeror;
- (2) The name and address of the Offeror's field superintendent for this project;
- (3) A list of the names, addresses, and telephone numbers of subcontractors and principal materials suppliers to be used on the project, indicating what portions of the work will be performed by them; and,

Experience and Past Performance - List all contracts and subcontracts your company has held over the past three years for the same or similar work. Provide the following information for each contract and subcontract:

- (1) Customer's name, address, and telephone numbers of customer's lead contract and technical personnel;
- (2) Contract number and type;
- (3) Date of the contract award place(s) of performance, and completion dates; Contract dollar value;
- (4) Brief description of the work, including responsibilities; and

(5) Any litigation currently in process or occurring within last 5 years.

C. 52.236-27 SITE VISIT (CONSTRUCTION) (FEB 1995)

- (a) The clauses at 52.236-2, Differing Site Conditions, and 52.236-3, Site Investigations and Conditions Affecting the Work, will be included in any contract awarded as a result of this solicitation. Accordingly, offerors or quoters are urged and expected to inspect the site where the work will be performed.
- (b) A site visit has been scheduled for **February 19th 2019 at 10:00 Hrs.**
- (c) Participants will meet at **Temple House, Pragati Marga, Losal.**

E. LATE QUOTATIONS. Late quotations shall be handled in accordance with FAR.

F. 52.252-1 SOLICITATION PROVISIONS INCORPORATED BY REFERENCE (FEB 1998)

This contract incorporates the following provisions by reference, with the same force and effect as if they were given in full text. Upon request, the Contracting Officer will make their full text available. The offeror is cautioned that the listed provisions may include blocks that must be completed by the offeror and submitted with its quotation or offer. In lieu of submitting the full text of those provisions, the offeror may identify the provision by paragraph identifier and provide the appropriate information with its quotation or offer.

Also, the full text of a solicitation provision may be accessed electronically at: <http://acquisition.gov/far/index.html/> or <http://farsite.hill.af.mil/offara.htm>. Please note these addresses are subject to change.

If the Federal Acquisition Regulation (FAR) is not available at the locations indicated above, use the Department of State Acquisition website at <http://www.statebuy.state.gov> to access the link to the FAR, or use of an Internet "search engine" (for example, Google, Yahoo or Excite) is suggested to obtain the latest location of the most current FAR.

The following Federal Acquisition Regulation provisions are incorporated by reference (48 CFR CH. 1):

<u>PROVISION</u>	<u>TITLE AND DATE</u>
52.204-7	SYSTEM FOR AWARD MANAGEMENT (OCT 2018)
52.204-16	COMMERCIAL AND GOVERNMENT ENTITY CODE REPORTING (JUL 2016)
52.214-34	SUBMISSION OF OFFERS IN THE ENGLISH LANGUAGE (APR 1991)
52.215-1	INSTRUCTIONS TO OFFERORS--COMPETITIVE ACQUISITION (JAN 2004)

K. EVALUATION CRITERIA

Award will be made to the lowest priced, acceptable, responsible quoter. The Government reserves the right to reject quotations that are unreasonably low or high in price.

The Government will determine acceptability by assessing the offeror's compliance with the terms of the RFQ. The Government will determine responsibility by analyzing whether the apparent successful quoter complies with the requirements of FAR 9.1, including:

- ability to comply with the required performance period, taking into consideration all existing commercial and governmental business commitments;
- satisfactory record of integrity and business ethics;
- necessary organization, experience, and skills or the ability to obtain them;
- necessary equipment and facilities or the ability to obtain them; and
- otherwise, qualified and eligible to receive an award under applicable laws and regulations.

SECTION L - REPRESENTATIONS, CERTIFICATIONS AND OTHER STATEMENTS OF OFFERORS OR QUOTERS

L.1 52.204-3 TAXPAYER IDENTIFICATION (OCT 1998)

(a) Definitions.

"Common parent", as used in this provision, means that corporate entity that owns or controls an affiliated group of corporations that files its Federal income tax returns on a consolidated basis, and of which the offeror is a member.

"Taxpayer Identification Number (TIN)", as used in this provision, means the number required by the IRS to be used by the offeror in reporting income tax and other returns. The TIN may be either a Social Security Number or an Employer Identification Number.

(b) All offerors must submit the information required in paragraphs (d) through (f) of this provision in order to comply with debt collection requirements of 31 U.S.C. 7701(c) and 3325 (d), reporting requirements of 26 USC 6041, 6041A, and 6050M and implementing regulations issued by the Internal Revenue Service (IRS). If the resulting contract is subject to the reporting requirements described in FAR 4.904, the failure or refusal by the offeror to furnish the information may result in a 31 percent reduction of payments

(c) otherwise due under the contract.

(d) The TIN may be used by the Government to collect and report on any delinquent amounts arising out of the offeror's relationship with the Government (31 USC 7701(c)(3)). If the resulting contract is subject to the payment reporting requirements described in FAR 4.904, the TIN provided hereunder may be matched with IRS records to verify the accuracy of the offeror's TIN.

(e) Taxpayer Identification Number (TIN).

TIN: _____

- TIN has been applied for.
- TIN is not required because:
 - Offeror is a nonresident alien, foreign corporation, or foreign partnership that does not have income effectively connected with the conduct of a trade or business in the U.S. and does not have an office or place of business or a fiscal paying agent in the U.S.;
 - Offeror is an agency or instrumentality of a foreign government;
 - Offeror is an agency or instrumentality of the Federal Government.

(e) Type of Organization.

- Sole Proprietorship;
- Partnership;
- Corporate Entity (not tax exempt);
- Corporate Entity (tax exempt);
- Government Entity (Federal, State or local);
- Foreign Government;
- International organization per 26 CFR 1.6049-4;
- Other _____.

(f) Common Parent.

- Offeror is not owned or controlled by a common parent as defined in paragraph (a) of this clause.
- Name and TIN of common parent:
Name _____
TIN _____

(End of provision)

52.204-8 Annual Representations and Certifications (OCT 2018)

(a) (1) The North American Industry classification System (NAICS) code for this acquisition is _____ *[insert NAICS code]*.

(2) The small business size standard is _____ *[insert size standard]*.

(3) The small business size standard for a concern which submits an offer in its own name, other than on a construction or service contract, but which proposes to furnish a product which it did not itself manufacture, is 500 employees.

(b) (1) If the provision at 52.204-7, System for Award Management, is included in this solicitation, paragraph (d) of this provision applies.

(2) If the provision at 52.204-7, System for Award Management, is not included in this solicitation, and the Offeror has an active registration in the System for Award Management (SAM), the Offeror may choose to use paragraph (d) of this provision instead of completing the corresponding individual representations and certifications in the solicitation. The Offeror shall indicate which option applies by checking one of the following boxes:

(i) Paragraph (d) applies.

(ii) Paragraph (d) does not apply and the offeror has completed the individual representations and certifications in the solicitation.

(c) (1) The following representations or certifications in SAM are applicable to this solicitation as indicated:

(i) 52.203-2, Certificate of Independent Price Determination. This provision applies to solicitations when a firm-fixed-price contract or fixed-price contract with economic price adjustment is contemplated, unless –

(A) The acquisition is to be made under the simplified acquisition procedures in Part 13;

(B) The solicitation is a request for technical proposals under two-step sealed bidding procedures; or

(C) The solicitation is for utility services for which rates are set by law or regulation.

(ii) 52.203-11, Certification and Disclosure Regarding Payments to Influence Certain Federal Transactions. This provision applies to solicitations expected to exceed \$250,000.

(iii) 52.203-18, Prohibition on Contracting with Entities that Require Certain Internal Confidentiality Agreements or Statements—Representation. This provision applies to all solicitations.

(iv) 52.204-3, Taxpayer Identification. This provision applies to solicitations that do not include the provision at 52.204-7, System for Award Management.

(v) 52.204-5, Women-Owned Business (Other Than Small Business). This provision applies to solicitations that –

(A) Are not set aside for small business concerns;

(B) Exceed the simplified acquisition threshold; and

(C) Are for contracts that will be performed in the United States or its outlying areas.

- (vi) 52.209-2, Prohibition on Contracting with Inverted Domestic Corporations – Representation.
- (vii) 52.209-5; Certification Regarding Responsibility Matters. This provision applies to solicitations where the contract value is expected to exceed the simplified acquisition threshold.
- (viii) 52.209-11, Representation by Corporations Regarding Delinquent Tax Liability or a Felony Conviction under any Federal Law. This provision applies to all solicitations.
- (ix) 52.214-14, Place of Performance--Sealed Bidding. This provision applies to invitations for bids except those in which the place of performance is specified by the Government.
- (x) 52.215-6, Place of Performance. This provision applies to solicitations unless the place of performance is specified by the Government.
- (xi) 52.219-1, Small Business Program Representations (Basic & Alternate I). This provision applies to solicitations when the contract will be performed in the United States or its outlying areas.
- (A) The basic provision applies when the solicitations are issued by other than DoD, NASA, and the Coast Guard.
 - (B) The provision with its Alternate I applies to solicitations issued by DoD, NASA, or the Coast Guard.
- (xii) 52.219-2, Equal Low Bids. This provision applies to solicitations when contracting by sealed bidding and the contract will be performed in the United States or its outlying areas.
- (xiii) 52.222-22, Previous Contracts and Compliance Reports. This provision applies to solicitations that include the clause at 52.222-26, Equal Opportunity.
- (xiv) 52.222-25, Affirmative Action Compliance. This provision applies to solicitations, other than those for construction, when the solicitation includes the clause at 52.222-26, Equal Opportunity.
- (xv) 52.222-38, Compliance with Veterans' Employment Reporting Requirements. This provision applies to solicitations when it is anticipated the contract award will exceed the simplified acquisition threshold and the contract is not for acquisition of commercial items.
- (xvi) 52.223-1, Biobased Product Certification. This provision applies to solicitations that require the delivery or specify the use of USDA-designated items; or include the clause at 52.223-2, Affirmative Procurement of Biobased Products Under Service and Construction Contracts.

(xvii) 52.223-4, Recovered Material Certification. This provision applies to solicitations that are for, or specify the use of, EPA- designated items.

(xviii) 52.223-22, Public Disclosure of Greenhouse Gas Emissions and Reduction Goals—Representation. This provision applies to solicitations that include the clause at 52.204-7.

(xix) 52.225-2, Buy American Certificate. This provision applies to solicitations containing the clause at 52.225-1.

(xx) 52.225-4, Buy American--Free Trade Agreements--Israeli Trade Act Certificate. (Basic, Alternates I, II, and III.) This provision applies to solicitations containing the clause at 52.225- 3.

(A) If the acquisition value is less than \$25,000, the basic provision applies.

(B) If the acquisition value is \$25,000 or more but is less than \$50,000, the provision with its Alternate I applies.

(C) If the acquisition value is \$50,000 or more but is less than \$80,317, the provision with its Alternate II applies.

(D) If the acquisition value is \$80,317 or more but is less than \$100,000, the provision with its Alternate III applies.

(xxi) 52.225-6, Trade Agreements Certificate. This provision applies to solicitations containing the clause at 52.225-5.

(xxii) 52.225-20, Prohibition on Conducting Restricted Business Operations in Sudan--Certification. This provision applies to all solicitations.

(xxiii) 52.225-25, Prohibition on Contracting with Entities Engaging in Certain Activities or Transactions Relating to Iran—Representation and Certification. This provision applies to all solicitations.

(xxiv) 52.226-2, Historically Black College or University and Minority Institution Representation. This provision applies to solicitations for research, studies, supplies, or services of the type normally acquired from higher educational institutions.

(2) The following representations or certifications are applicable as indicated by the Contracting Officer:

[Contracting Officer check as appropriate.]

___ (i) 52.204-17, Ownership or Control of Offeror.

___ (ii) 52.204-20, Predecessor of Offeror.

___ (iii) 52.222-18, Certification Regarding Knowledge of Child Labor for Listed End Products.

___ (iv) 52.222-48, Exemption from Application of the Service Contract Labor Standards to Contracts for Maintenance, Calibration, or Repair of Certain Equipment--Certification.

___ (v) 52.222-52 Exemption from Application of the Service Contract Labor Standards to Contracts for Certain Services--Certification.

___ (vi) 52.223-9, with its Alternate I, Estimate of Percentage of Recovered Material Content for EPA-Designated Products (Alternate I only).

___ (vii) 52.227-6, Royalty Information.

___ (A) Basic.

___ (B) Alternate I.

___ (viii) 52.227-15, Representation of Limited Rights Data and Restricted Computer Software.

(d) The Offeror has completed the annual representations and certifications electronically in SAM accessed through <https://www.sam.gov>. After reviewing the SAM information, the Offeror verifies by submission of the offer that the representations and certifications currently posted electronically that apply to this solicitation as indicated in paragraph (c) of this provision have been entered or updated within the last 12 months, are current, accurate, complete, and applicable to this solicitation (including the business size standard applicable to the NAICS code referenced for this solicitation), as of the date of this offer and are incorporated in this offer by reference (see FAR 4.1201); except for the changes identified below [offeror to insert changes, identifying change by clause number, title, date]. These amended representation(s) and/or certification(s) are also incorporated in this offer and are current, accurate, and complete as of the date of this offer.

FAR Clause	Title	Date	Change

Any changes provided by the offeror are applicable to this solicitation only, and do not result in an update to the representations and certifications posted on SAM.

(End of Provision)

L.3. 52.225-18 PLACE OF MANUFACTURE (SEPT 2006)

(a) *Definitions.* As used in this clause –

“ Manufactured end product” means any end product in Federal Supply Classes (FSC) 1000-9999, except –

- (1) FSC 5510, Lumber and Related Basic Wood Materials;
- (2) Federal Supply Group (FSG) 87, Agricultural Supplies;
- (3) FSG 88, Live Animals;
- (4) FSG 89, Food and Related Consumables;
- (5) FSC 9410, Crude Grades of Plant Materials;
- (6) FSC 9430, Miscellaneous Crude Animal Products, Inedible;
- (7) FSC 9440, Miscellaneous Crude Agricultural and Forestry Products;
- (8) FSC 9610, Ores;
- (9) FSC 9620, Minerals, Natural and Synthetic; and
- (10) FSC 9630, Additive Metal Materials.

“Place of manufacture” means the place where an end product is assembled out of components, or otherwise made or processed from raw materials into the finished product that is to be provided to the Government. If a product is disassembled and reassembled, the place of reassembly is not the place of manufacture.

(b) For statistical purposes only, the offeror shall indicate whether the place of manufacture of the end products it expects to provide in response to this solicitation is predominantly –

- (1) In the United States (Check this box if the total anticipated price of offered end products manufactured in the United States exceeds the total anticipated price of offered end products manufactured outside the United States); or
- (2) Outside the United States.

(End of provision)

L.4 AUTHORIZED CONTRACTOR ADMINISTRATOR

If the offeror does not fill-in the blanks below, the official who signed the offer will be deemed to be the offeror's representative for Contract Administration, which includes all matters pertaining to payments.

Name:
Telephone Number:
Address:

L.5 52.225-20 PROHIBITION ON CONDUCTING RESTRICTED BUSINESS OPERATIONS IN SUDAN - CERTIFICATION (AUG 2009)

(a) *Definitions.* As used in this provision—

“Business operations” means engaging in commerce in any form, including by acquiring, developing, maintaining, owning, selling, possessing, leasing, or operating equipment, facilities, personnel, products, services, personal property, real property, or any other apparatus of business or commerce.

“Marginalized populations of Sudan” means—

(1) Adversely affected groups in regions authorized to receive assistance under section 8(c) of the Darfur Peace and Accountability Act (Pub. L. 109-344) (50 U.S.C. 1701 note); and

(2) Marginalized areas in Northern Sudan described in section 4(9) of such Act.

“Restricted business operations” means business operations in Sudan that include power production activities, mineral extraction activities, oil-related activities, or the production of military equipment, as those terms are defined in the Sudan Accountability and Divestment Act of 2007 (Pub. L. 110-174). Restricted business operations do not include business operations that the person conducting the business can demonstrate—

(1) Are conducted under contract directly and exclusively with the regional government of southern Sudan;

(2) Are conducted pursuant to specific authorization from the Office of Foreign Assets Control in the Department of the Treasury, or are expressly exempted under Federal law from the requirement to be conducted under such authorization;

(3) Consist of providing goods or services to marginalized populations of Sudan;

(4) Consist of providing goods or services to an internationally recognized peacekeeping force or humanitarian organization;

(5) Consist of providing goods or services that are used only to promote health or education; or

(6) Have been voluntarily suspended.

(b) *Certification.* By submission of its offer, the offeror certifies that it does not conduct any restricted business operations in Sudan.

(End of provision)

L.6. 52.209-2 PROHIBITION ON CONTRACTING WITH INVERTED DOMESTIC CORPORATIONS REPRESENTATION (NOV 2015)

(a) Definitions. "Inverted domestic corporation" and "subsidiary" have the meaning given in the clause of this contract entitled Prohibition on Contracting with Inverted Domestic Corporations ([52.209-10](#)).

(b) Government agencies are not permitted to use appropriated (or otherwise made available) funds for contracts with either an inverted domestic corporation, or a subsidiary of an inverted domestic corporation, unless the exception at [9.108-2\(b\)](#) applies or the requirement is waived in accordance with the procedures at [9.108-4](#).

(c) Representation. The Offeror represents that.

- (1) It is, is not an inverted domestic corporation; and
- (2) It is, is not a subsidiary of an inverted domestic corporation.

52.204-24 REPRESENTATION REGARDING CERTAIN TELECOMMUNICATIONS AND VIDEO SUVEILLANCE SERVICES OR EQUIPMENT (AUG 2019)

(End of provision)