

STATEMENT OF WORK (SOW)
As of 14/JUNE/2018 REVISED 8/10/2018

Contract Number:	
Task Order Number:	600-18-3-5667-0801
IFCAP Tracking Number:	
Follow-on to Contract and Task Order Number:	

1. Contracting Officer's Representative (COR).

Name:	KEITH DIDRICKSON
Section:	Facilities
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2. Contract Title. VA LONG BEACH, 5901 E. 7th ST LONG BEACH, CA. 90822.

Remove & Replace existing Underground Fuel Lines for Emergency Generators at Bldg-126 & 128, and move overfill alarm system, and Re-Route vent line. VALBHS.

3. Background. In July of 2017, VA Long Beach had the Three (3) year SB/989 testing performed, it was found in this testing that we had several leaks in our Fuel Lines for the Underground Fuel Storage Tanks that supply fuel to the Emergency Generators for Bldg-126 & 128. These deficiencies were noted by the City of Long Beach Fire Department, and we have been cited and fined since then. These repairs will bring us back into compliance with the Regulatory Agencies. Also, we are relocating the Veeder Root **Overfill Alarm System, as it is over 200 feet away from the fill port for the Underground Fuel Storage Tank at Bldg-126. The alarm system is so far away from the fill port that if it were to be overfilled while the operator is dispensing fuel, he/she will not be able to hear the alarm, alarm needs to be relocated to bring it up to current codes.**

4. Scope.

Contractor shall provide all labor, parts, materials, equipment and Supervision required to perform all work, including shop drawings for the removal and replacement of existing underground fuel lines with new systems for Bldg-126 & 128. All work shall be performed per latest edition of VHA specifications and State of California standards for design & specifications.

VHA Speciations are as follows:

1.

- **SECTION 23 10 00 FACILITY FUEL OIL SYSTEMS (ATTACHED)**
- **Section 01 00 00 General Requirements (attached).**

View following applicable Specifications at VHA web site ,
<https://www.cfm.va.gov/TIL/> .

- Section 02 41 00 Demolition.
- Section 03 30 53, Short Form CAST-IN-PLACE CONCRETE.
- Section 26 05 11 Requirements for Electrical Installation.
- Section 26 05 19 Low Voltage Electrical Power Conductors & Cables.
- Section 26 27 26 Wiring Devices
- Section 26 05 41, UNDERGROUND ELECTRICAL CONSTRUCTION.
- Section 28 31 00 Fire Detection & Alarm
- Section 31 20 00, EARTHWORK.

California Design & Specifications are described in :

Title 23 , California Code of Regulations , Chapter 16 ,

California water Boards

‘ Underground storage Tank Regulations’ July 2011.

Web site ‘<https://www.waterboards.ca.gov/ust/regulatory/>’

Contractor shall submit State of California Mechanical, Plumbing, Safety Engineer approved shop drawings for each component of the new system and construction schedule for VA-COR and City of Long Beach Fire Department approval. All work under this contract shall be in accordance with industry standards, OSHA, California State Water Resources Board, and all applicable State/Federal Regulations. Contractor shall ensure that all required coordination and notification is conducted with the regulatory agency, City of Long Beach Fire Department and VALBHS. All work shall be performed by an approved and valid State of California Contractor, with a **Valid “A” License. Any Sub Contractors performing work on this system shall also have a Valid “A” License.** Contractor shall ensure (if required) all permits, plans and certifications are in place prior to commencing work.

Applicable VHA Specification are:

- SECTION 23 10 00 FACILITY FUEL OIL SYSTEMS (ATTACHED)
- 1.1 Section 01 00 00, GENERAL REQUIREMENTS (ATTACHED)
- 1.2 Section 02 41 00, DEMOLITION.

- 1.3 Section 03 30 53, SHORT FORM, CAST-IN-PLACE CONCRETE.
- 1.4 Section 26 05 11, REQUIREMENTS FOR ELECTRICAL INSTALLATION.
- 1.5 Section 26 05 19, LOW VOLTAGE ELECTRICAL POWER CONDUCTORS & CABLES.
- 1.6 Section 26 27 26, WIRING DEVICES
- 1.7 Section 26 05 41, UNDERGROUND ELECTRICAL CONSTRUCTION.
- 1.8 Section 28 31 00, FIRE DETECTION & ALARM.
- 1.9 Section 31 20 00, EARTHWORK

- 2. Contractor shall check in with Keith Didrickson, Bldg-5C, upon arrival at the VA Long Beach Healthcare System.
- 3. Contractor and Employees shall be issued Temporary ID Badges from the VA Police Department that are to be worn at all times while on VA Property.
- 4. Supervisor: 30 Hour OSHA Construction Safety Training.
- 5. Personnel: 10 Hour OSHA Construction Safety Training.
- 6. Contractor and Employees to attend a 30 minute VA Safety briefing provided by the Safety Department.
- 7. A site visit is required for this Construction.

5. Specific Tasks. EAST SIDE OF BLDG-126, NEW FUEL LINES:

- 1. Contractor shall provide one (1) 1-MEG/1000 KW Mobile Generator and install on-site at the temporary generator hookup located at the front driveway of Bldg-126, for Back up Emergency Power for the Main Hospital, Bldg-126. Generator shall be maintained 24 Hours by Contractor during duration of Construction. Load bank hook up box has cam-lock cables, a 120/V outlet for battery charger, auto start wires and a phase rotation meter. Generator hookup will require 13 4/0 cables for hookup at 50 feet
- 2. Contractor shall remove two (2) existing sidewalks that cross over existing trench for underground fuel lines, and hand excavate to expose existing underground fuel lines. (A) 25" x 90" x 4". (B) 5' x 6' x 4". Contractor shall secure the area once the existing sections of the sidewalks have been removed with construction stakes/posts and plastic mesh, provided by the VA.
- 3. Contractor shall flush out three (3) fiberglass lined pipes (FRP) to remove any oil residue. Residue shall be disposed of per California Codes at an approved site for disposal. Contractor shall provide a Manifest of the disposal of any residue that was removed and disposed of at the approved site for disposal.
- 4. Contractor shall remove three (3) FRP lines (one supply, one return & one vent line) and dispose of at an approved site for disposal, and provide a Manifest of the disposal of the pipes.
- 5. Contractor shall hand excavate the base of the existing trench so that the installation of two (2) FRP lines (supply & return) will be installed as follows: (A) Base shall be 20" wide. (B) Base shall be hand excavated so that there will be 10" thick of rounded 3/8" pea stone. (C) Return line shall be slightly sloped

to match existing line. All soil that is removed is to be disposed of at an approved site for disposal and Contractor is to provide a Manifest for all soil that is disposed of, as the soil will be contaminated with fuel residue. All Manifests are to be provided to the COR within 14 calendar days of disposal.

6. Contractor shall submit sketch of excavated trench with dimensions for approval.
7. Contractor shall install two (2) new FRP lines (one supply & one return), , 2" Primary with 3" Secondary containment on a 10" base of 3/8" rounded pea stone, each line will be approximately 220 feet long. Primary 2" line shall be tested at 10/PSI. Secondary containment line shall be tested at 5/PSI. Return line shall be slightly sloped to match existing line at Underground Storage Tank (UST).
8. Contractor shall install 10" of 3/8" rounded pea stone the entire length of the trench.
9. Contractor shall install Filter Fabric, Model: Woven 150, as Manufactured by Granite Environmental on top of the 3/8" rounded pea stone. Backfill entire trench to grade. Contractor shall remove 4" of existing Earth from sidewalk to Building, and install 4" of top soil. Contractor shall install Hydroseed to the affected area..
10. Two (2) FRP lines at Bldg-126 shall enter via a transition pump, manufactured by APT, Model: AST-2922. Cover shall have 4" inspection port with lockable cap and adaptor, Model: OPW634TTM7087/OPW633T8075.
11. Pipes shall exit using entry boots, Model: DEB-200-SC.
12. Contractor shall make all electrical & plumbing connections between new lines and existing lines for detection of fuel overflow at Veeder Root Panel.
13. Sump shall have one (1) Veeder Root sump sensor, Model: 330513-001 and shall be tied into existing TLS-300 Console.
14. Contractor shall replace two (2) sections of sidewalk that were removed with 3000/psi concrete with steel mesh, (A) 25" x 90" x 4". (B) 6' x 5' x 4", and finish concrete to match existing.
15. Contractor shall repair/replace any irrigation (Sprinkler) piping and sprinkler heads that may be damaged during excavation to match existing.
16. Contractor shall remove and dispose of all dirt and gravel left from the original excavation, as well as current excavation, and dispose of at an approved site for disposal.

RE-ROUTING OF VENT LINE AT BLDG-126.

1. Contractor shall excavate approximately 15' of existing soil toward Bldg-126, with a 20" wide base to re-route Vent line towards Bldg-126.
2. Contractor shall install one set of FRP's (2" primary & 3" secondary), approximately 15' in existing trench, with a 10" base of 3/8" rounded pea stone.
3. Contractor shall install one (1), 90 degree elbow and run an additional 15' of FRP toward Bldg-126, with a 10" base of 3/8" rounded pea stone.
4. Contractor shall install one (1), 90 degree elbow up to existing grade, with FRP, and install another 90 degree elbow running toward Bldg-126, with 14' of 2" diameter stainless steel flex pipe, Model: FSMM0200x18.
5. Contractor shall install stainless steel flex pipe to 90 degree elbow mounted to Bldg-126, per California codes.

6. Contractor shall install, 30' of 2" Galvanized pipe vertically up the wall of Bldg-126, and attach per California Codes.
7. Vent lines underground will all be FRP's and run from the UST to the transition sump Manufactured by APT, Model AST-2922, cover shall have 4" inspection port with lockable cap and adaptor, Model: OPW634TTM7087/OPW633T8075.
8. Vent lines in trench shall be connected to transition sump using entry boots, Model: DEB-200-5C. Sump shall have one (1) Veeder Root sump sensor, Model: 330513-001 and shall be tied into existing **TLS-350** console. Vent line shall be connected to UST, transition sump and Veeder Root sensor per California Codes.

RELOCATING EXISTING VEEDER ROOT OVERFILL ALARM SYSTEM FROM BLDG-151, SUB-STATION 13, WHICH HOUSES EMERGENCY GENERATOR FOR BLDG-126, TO TANK FILL PORT, LOCATED AT BLDG-126.

1. Contractor shall turn off all power to Veeder Root alarm system, and do LO/TO (lock out/tag out).
2. Contractor shall remove L/B (left bend) on outside of cinder block wall to include all conduit, boxes, fittings and straps that come before L/B (left bend).
3. Contractor shall remove all electrical wiring and low voltage wiring to 4S junction box inside Bldg-151.
4. Contractor shall seal penetration on outside of Bldg-151.
5. Contractor shall remove existing **Veeder Root Overfill** alarm system and reinstall at new location near fill port station next to Bldg-126.
6. Contractor shall run new ¾" EMT (electrical metallic tubing) from existing 4S box inside to adjacent wall and install new 4S box, with compression couplings & connectors.
7. Contractor shall drill through wall at new 4S box through cinder block wall.
8. Contractor shall run ¾" EMT (electrical magnetic tubing) through cinder block wall. Install on outside of cinder block wall a new weather rated junction box & connect new 4S box to new weather rated junction box.
9. Contractor shall install new ¾" EMT for low voltage wiring from Veeder Root to newly installed 4S box.
10. Contractor shall install new ¾" EMT for electrical wiring from Veeder Root to newly installed 4S junction box.
11. Contractor shall install ¾" RMC for low voltage wiring from newly installed weather rated junction box down to existing trench, 8" to 10" below grade, with 8" to 10" of 20/ML PVC pipe tape on RMC & SCH/80 PVC pipe.
12. Contractor shall install approximately 220' of SCH/80 PVC electrical conduit in existing trench for low voltage wiring, with 8" to 10" inches of 20/ML PVC pipe tape from connection of newly installed RMC.
13. Contractor shall install approximately 220' of SCH/80 PVC electrical conduit in existing trench for electrical wiring, with 8" to 10" of 20/ML PVC pipe tape from connection of newly installed RMC.
14. Contractor shall run all wiring to match existing wire type and adjust to account for voltage drop of newly install electrical wiring and newly installed low voltage wiring.

15. Contractor shall install new concrete pad, 3' x 3' x 18" near fill port station next to Bldg-126, to include 2 ea. 7' X 2" galvanized steel pipe, with galvanized caps, set approximately 20" apart, with 6' above finished concrete.
16. Contractor shall install ¾" RMC for low voltage wiring up to desired height, with 8" to 10" of 20/ML PVC pipe tape above finished concrete and 8" to 10" of 20/ML PVC pipe tape on SCH/80 PVC electrical conduit in existing trench.
17. Contractor shall install ¾" RMC for electrical wiring up to desired height, with 8" to 10" of 20/ML PVC pipe tape above finished concrete and 8" to 10" of 20/ML on SCH/80 PVC electrical conduit in existing trench.
18. Contractor shall install 2 ea. 24" long unistruts, with U-Bolts and Unistrut spring nuts.
19. Contractor shall install new weather rated junction box to unistruts, and tie all RMC into newly installed weather rated junction box.
20. Contractor shall run all wiring to match existing wire type and adjust to account for voltage drop of newly installed electrical wiring and newly installed low voltage wiring, through newly installed **Veeder Root - Remote Overfill Alarm Box for TLS-350, TLS-300, Item # 790091-001, to include Veeder Root - Remote ALARM Shutoff Switch, Item # 790095-001 All RMC and all SCH/80 PVC electrical conduit shall be tied into newly installed Veeder Root Overfill alarm location.**
21. Once Contractor is finished with the new installation, Contractor will remove LO/TO (lock out/tag out) and test system for proper operation.
22. Contractor shall remove and dispose all debris and leave area clean.

BLDG-128, FUEL LINES:

1. Contractor shall flush out existing Fiberglass Reinforced Plastic (FRP) line to remove any oil residue. Residue shall be disposed of per California Codes at an approved site for disposal. Contractor shall provide a Manifest of the disposal of any residue that was removed and disposed of at the approved disposal site.
2. Contractor shall remove one (1) FRP line (approximately 180' long) and dispose of at an approved site for disposal. Contractor to provide a Manifest for the disposal of the RFP.
3. Contractor shall hand excavate the base of the existing trench so that the installation of one (1) RFP line will be installed as follows: Base shall be 12" wide so that there will be 10" of 3/8" rounded pea stone. All soil that is excavated will be disposed of at an approved site for disposal, as soil will be contaminated with fuel/oil residue. Contractor shall provide a Manifest of all soil that was disposed of at the approved site for disposal.
4. Contractor shall remove existing irrigation lines in the trench, and replace to match existing to include sprinkler heads.
5. Contractor shall install approximately 180" of new FRP. Primary 2" with 3" secondary containment, per California Codes.
6. Contractor shall install Filter Fabric, Model: Woven 150, as Manufactured by Granite Environmental on top of 10" of 3/8" rounded pea stone.
Contractor shall backfill entire trench to grade. **Contractor shall remove 4" of existing Earth from sidewalk to Shrubbery, and install 4" of top soil. Contractor shall install Hydroseed to the affected area..**

7.

Service to perform duties stated in the “Scope of Work”.

5.1 Tasks 1 - Enterprise Management Controls.

Deliverables: **Contract Management Plan** **N/A**
 Monthly Status Report **N/A**

5.2 Task 2. N/A

5.2.1 Subtask 1. N/A

5.2.2 Subtask 2. N/A

Deliverables: N/A

6. Performance Monitoring - Routine inspections by Facilities Personnel

7. Security Requirements

Vendor will not have access to patient records, data or VA computer systems

8. Government-Furnished Equipment (GFE)/Government-Furnished Information (GFI).

No Government equipment will be used by the Vendor

9. Other Pertinent Information or Special Considerations.

None

10. Risk Control

Submit an (ICRA). “Infection Prevention Construction Risk Assessment” permits.

11. Place of Performance.

Bldg. 126 & 128,6 VAMCLB.

12. Period of Performance.

The period of performance will begin immediately due to the extreme nature of this emergency.

13. Delivery Schedule.

N/A:

SOW Task#	Deliverable Title	Format	Number	Calendar Days After CO Start
	* Standard Distribution: 1 copy of the transmittal letter <u>without the deliverable</u> to the Contracting Officer shall be Emailed.			