

REQUEST FOR PROPOSALS
by the City of Homer, Alaska
For Fuel Island Replacement
Contract

The City of Homer, Alaska (the City) is requesting proposals from qualified firms (Proposer) to replace all elements of the City of Homer's Fuel Island. The proposer will furnish all necessary labor, material, equipment, tools, supervision, and other facilities and equipment to perform the required contractual services.

The successful proposer will enter into a services contract with the City, on a form provided by the City. The successful proposer will have until December 31, 2025 to complete the work called for under the contract.

All proposers must submit a City of Homer Plan Holders Registration Form separate from their proposal to be on the Plan Holder's List and receive communication about this Request for Proposals (RFP).

Proposals are due Wednesday, November 13, 2024 at 2:00 p.m. Sealed proposals must be delivered or mailed to the City Clerk's Office by the date and time established herein. Proposals received after the proposal due date and time will be rejected. It is the Proposer's responsibility to ensure their proposal is received at the specified location and time.

An optional Pre-Close RFP meeting will be held on Friday, November 8, 2024 at 3:00 p.m. in the Public Works office at 3575 Heath St.

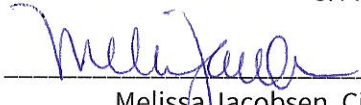
For Proposal Documents, Specifications or questions regarding submittal contact: City Clerk's Office, City of Homer, 491 E. Pioneer Avenue Homer, Alaska 99603 or call 907-235-3130.

Submit questions regarding technical details in writing to: Daniel Kort, Public Works Director, City of Homer Public Works Department 3575 Heath Street, Homer, AK 99603 or email: dkort@ci.homer.ak.us.

An electronic copy of the RFP Documents is available on the City's website or you may purchase hard copies at the City Clerk's Office upon payment of \$10.00 per set (\$40.00 for priority mail). All fees are non-refundable. The City of Homer reserves the right to accept or reject any or all proposals, to waive irregularities or informalities in the proposals, and to award a contract to the proposer that best meets the selection criteria and the City's needs.

Dated this 16th day of October, 2024

CITY OF HOMER



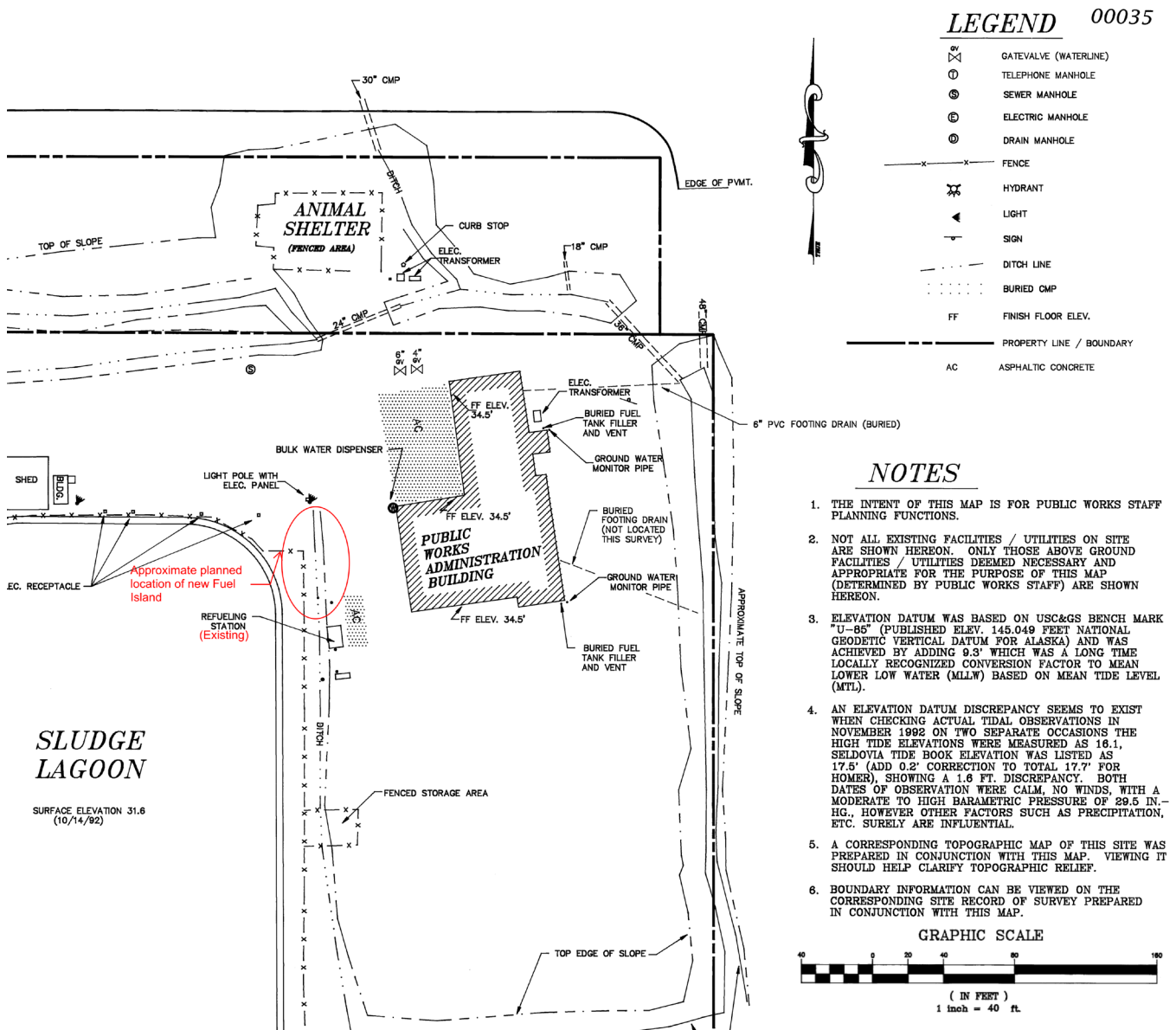
Melissa Jacobsen, City Manager

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I. SCOPE OF SERVICES

The proposed work is located within the limits of the City of Homer near the Public Works office at 3575 Heath Street, Homer AK, 99603. Below is a site map of the property, pulled from a 1992 survey drawing of the Public Works campus, depicting generally where the fuel island will go.



The project consists of:

- Procurement and installation of two “turn key” skid mounted movable fuel tanks as specified
- Supply and install two new fuel tanks mounted on moveable skids, one for unleaded and one for diesel. Both Tanks will be 6,000 gallons, have attached dispensing systems and be constructed according to the Specifications in Section 10 of this RFP.
- Supply and install fuel management software, including transfer of data from existing software and hardware associated with data transfer from the pumps to the new software system. Software must be in accordance with the Specifications in Section 10.
- Provide services to commission the tanks and training to staff on operation and maintenance requirements of the tank systems.

II. INSTRUCTIONS TO PROPOSERS

- A. **There will be an optional Pre-Close RFP meeting/teleconference on Friday, November 8, 2024 at 3:00 p.m. at the Public Works Office located at 3575 Heath Street, Homer, Alaska.** This will give all proposers involved the opportunity to present project questions to City staff.
- B. **Sealed proposals must be received by the City Clerk’s Office at the address referenced below no later than 2:00 p.m. on Wednesday, November 13, 2024.** The time of receipt will be determined by the City Clerk’s time stamp. Proposals received after that time shall not be considered.
- C. Proposers must submit one original and three (3) copies of the completed proposal in an opaque envelope marked as follows:

City of Homer 2024 RFP
Fuel Island Replacement Contract
November 13, 2024
Bidders Name and Address

- D. Proposal submittals shall be delivered in person or mailed to:
- City of Homer
City Clerk’s Office
491 E. Pioneer Avenue
Homer, Alaska 99603
- E. The City Clerk’s Office does not provide envelopes for responsive firms to put their completed proposals in, nor will the Clerk’s Office Staff write proposer’s information on the envelope on their behalf. Facsimile, email, electronic or telephone proposals will not be accepted. City procurement policies require a paper submittal by the stated time and date. Electronic submissions will not be accepted.
- F. Proposals may be withdrawn by written, email, or facsimile notice received prior to the deadline for proposal submittal. Withdrawals received after the proposal submittal deadline will not be considered.
- G. Inquiries must be received at least 10 days prior to the RFP submittal deadline. Copies of all written requests and replies will be forwarded to each Proposer on the Official Plan Holders List. The City will not be bound by any oral interpretation of this RFP. Only formal, written responses to properly submitted questions will be binding.
- H. Inquiries regarding the Scope of Work or clarification of the RFP must be directed in writing to:
- Daniel Kort, Public Works Director, City of Homer, Public Works Office
3575 Heath Street

Homer, AK 99603
Email: dkort@ci.homer.ak.us

- I. General RFP and proposal submission inquiries must be directed in writing to:

City Clerk's Office
491 E. Pioneer Avenue
Homer, AK 99603
Email: clerk@ci.homer.ak.us

III. RULES GOVERNING COMPETITION

- A. Examination of RFP. Proposers should carefully examine the entire Request for Proposal (RFP) and any addenda thereto, and all related materials and data referenced in the RFP. Proposer should become fully aware of the nature of the work and conditions likely to be encountered in performing the work.
- B. Proposal Acceptance Period. Award of this proposal is anticipated to be announced within 10 calendar days of the proposal submission due date.
- C. Confidentiality. The content of all proposals will be kept confidential until the selection of the Contractor is announced. At that time, the selected proposal is open for review by the competing proposers, excluding any tabulation and evaluations thereof. After the award of the Contract, all proposals, tabulations and evaluation will then become public information.
- D. Proposal Format. Proposals are to be prepared in such a way as to provide a straight forward, concise delineation of the proposers' capabilities to satisfy the requirements of this RFP. Emphasis should be concentrated on:
- (1) Conformance to the RFP instructions;
 - (2) Responsiveness to the RFP requirements;
 - (3) Completeness and clarity of content.
- E. Local Bidder Preference. Per HCC 3.16.080, a contract or purchase shall be awarded to a local bidder where the bid by such local bidder is, in all material respects, comparable to the lowest responsible nonlocal bid if the amount bid by such local bidder does not exceed the lowest nonlocal bid by more than the following percentages, unless such an award is contrary to State or Federal law or regulation or unless the Council, at its discretion, determines prior to giving notice soliciting bids that the provisions of this section shall not apply to the contract or purchases:
- | | |
|---|---|
| Nonlocal bid is: | Local bid is not more than: |
| \$0 - \$500,000 | 5% higher than nonlocal bid |
| \$0 - \$1,000,000 | 5% higher than nonlocal bid on first \$500,000 and 2.5% higher than nonlocal bid on amount in excess of \$500,000 to \$1,000,000. |
| No additional adjustment for bids above \$1,000,000 | |
- F. Signature Requirement. All proposals must be manually signed. A proposal may be signed by: an officer or other agent of the corporate vendor, if authorized to sign contracts on its behalf; a member of a partnership; an owner of a privately-owned vendor; or other agent if properly authorized by power of attorney or equivalent document. The name and title of the individual(s) signing the proposal must be clearly shown immediately below the signature.

- G. Licenses and Certifications. Proposers shall include with their proposals copies of all licenses, certificates, registrations and other credentials required for performance under the contract. Documentation must be current and must have been issued by or under authority of the State of Alaska or, if documentation is from an outside jurisdiction, such documentation must be accepted as valid by the State of Alaska for performance in Alaska. Such documentation shall include, but is not limited to, Alaska business license and applicable professional licenses, registrations and certificates.

IV. PROPOSAL FORMAT & CONTENT REQUIREMENTS

To achieve a uniform review process and obtain the maximum degree of comparability, it is required that the proposals be organized in the manner specified below. Proposals that do not address the items listed in this request may be considered incomplete and deemed non-responsive by the City.

All bidders/proposers must submit a City of Homer Plan Holders Registration form to be on the Plan Holders List and to be considered responsive.

To be considered, each sealed proposal must include **two separate** sealed envelopes the contents of these envelopes shall be as follows:

ENVELOPE 1:

A. Personnel Synopsis: The personnel synopsis must provide the following information:

- Introduction of the contract manager (single point of contact) and members of the firm that will be performing the work under the contract.
- List of equipment utilized by the firm.
- Full resumes are not needed.

B. Work Examples. Provide three examples of work your firm has completed for similar projects. Include a detailed descriptions of the scope of work, specifications and contact information for the clients of each project.

C. Timeline. Provide proposed start date, estimated days necessary for completion of work and estimated completion date. Also list planned hours of operation.

D. Proposed Tanks and Software. Provide information describing the proposed tanks and Software. Ideally the tank will include Fuel Management Software and a Fleet Management Software, or the Fuel Management Software can feed data into the existing Fleet Management Software. The existing Fleet Management Software is Antero which is through All Max Software.

E. Maintenance Location. Identify location of service technicians that would be supporting this system. Describe the response time for an issue and how the issue would be addressed/resolved with the fuel system and software. Further provide a list of facilities where you provide service support of a fuel and software system.

F. Insurance. Prior to commencement of work, the Proposer shall be required to provide current proof of insurance and to keep it in full force and effect for the duration of the Contract, at its own expense, with the following minimum policy limits. Also, the City of Homer shall be named as additional insured during the project's duration.

- General Liability Insurance in the minimum amount of \$500,000 for any one person and not less than \$1,000,000 for any one accident or occurrence, for death, bodily injury, personal injury, and/or property damage.
- Worker's Compensation in accordance with the laws of the State of Alaska, and Employer's Liability Insurance with minimum limits of \$1,000,000/\$1,000,000/\$1,000,000.
- Property damage liability which shall include any and all property whether or not in control, custody or care of the contractor, in an amount of not less than \$1,000,000 on account of any one accident.
- Automobile Liability Insurance covering owned, non-owned, or hired vehicles used by the firm, with limits not less than \$1,000,000 combined single limit for bodily injury and property damage.

G. Licenses and Certifications. Licenses and certifications mentioned above in Section III G of this RFP must be included in Envelope 1.

ENVELOPE 2:

Envelope 2 will contain a filled out bid form showing a detailed price breakout of the work. No pricing information may be included in Envelope 1.

V. EVALUATION CRITERIA & SELECTION PROCESS

A selection committee made up of representatives of various City of Homer department staff will evaluate the proposals and make a recommendation to the City Council. Submittals will be evaluated and scored in accordance with the following criteria:

Firm Experience/Qualifications	20
Key Staff	10
Proposed Tank System, Fuel Management /Fleet Management Software and Timeline	20
Location of Company and Maintenance Support	30
Cost	20
Total	100

The City reserves the right to accept or reject any or all proposals, to waive irregularities or informalities in the proposals.

A committee of individuals representing the City of Homer will perform evaluation of the proposal. The committee will rank the proposal as submitted. The City of Homer reserves the right to award a contract based solely on the written proposal.

The City also reserves the right to request oral interviews with the highest ranked firms (short list). The purpose of the interviews with the highest ranked firms is to allow expansion upon, and possible refinement of the written responses. If interviews are conducted, a maximum of three (3) firms will be short-listed. A second score sheet will be used to score those firms interviewed. The final recommendation for selection will be based on the total of all evaluators scores achieved on the second rating. The same categories and point ranges will be used during the second evaluation as for the first.

The evaluation committee will forward a recommendation for contract award based on points awarded. The firm, whose proposal is ranked highest, may be invited to enter into final negotiations with the City for the purposes of contract award.

The City will issue a Notice of Intent to Award to the highest-scoring proposer. The successful proposer will be required to enter into a services contract with the City, on a form prepared by the City. All work must be completed by December 31, 2025

VI. RFP TIMELINE & AWARD SCHEDULE

These dates represent a tentative schedule of events. The City reserves the right to modify these dates at any time, with appropriate notice to applicable proposers on the Plan Holders List.

ACTIVITY	DATE/TIME
RFP Publish Dates	City of Homer Website October 24, 2024 Homer News October 24 and October 31, 2024
Optional Pre-Close Meeting	November 8, 2024
Submittal Deadline for Proposals	November 13, 2024
Evaluation Period and Proposal Selection	November 14-22, 2024
Authority to Proceed by Homer City Council	November 25, 2024
Contract Signing/Notice to Proceed	November 27, 2024

VII. PROTEST

If an interested party wishes to protest the content of this RFP, the protest must be received, in writing, by the City Clerk at least ten days prior to the deadline for receipt of proposals.

If a proposer wishes to protest the award of a contract or the proposed award of a contract, the protest must be received, in writing, by the City Clerk within ten days after the date the Notice of Intent to Award the contract is issued.

A hearing officer shall be appointed by the City Manager to hear and decide protests.

Protests must include the following information:

- the name, address, and telephone number of the protester;
- the signature of the protester or the protester's representative;
- identification of the solicitation or contract at issue;
- a detailed statement of the legal and factual grounds of the protest including copies of relevant documents; and
- the form of relief requested.

All Proposers will be notified of any protest.

If a protest is filed the award may be made unless it is determined by the issuing City Department that a reasonable probability exists that the protest will be sustained; or stay of the award is not contrary to the best interests of the City.

The hearing officer will issue a written response to the protest within 15 days after a protest has been filed. Notwithstanding the outcome of a protest, the City will not be responsible for any disappointed Proposer's proposal preparation costs.

The decision of the hearing officer may be appealed to the Superior Court within 30 days after the date the decision was issued. For the purposes of this section the date of issuance is the date upon which the decision was mailed or delivered to the parties.

VIII. SAMPLE CONTRACT

CONTRACT

This Contract, made and entered into by and between the City of Homer, Alaska, a Municipal Corporation, hereinafter called the "City" and

(Company Name)

Hereinafter called the "Contractor".

I. CONTRACT DOCUMENTS

The Contractor, in consideration of the sum to be paid by the City agrees to furnish all materials, tools, labor, machinery and appurtenances to perform the work set forth in the Contract documents, including:

- a. Signed copy of the Proposal;
- b. Performance Bond;
- c. Payment Bond;
- d. Current Business license;
- e. Insurance Certificates;
- f. All Addenda, totaling _;
- g. The RFP, consisting of 18 pages, titled "Request for Proposals by the City of Homer, Alaska for the Fuel Island Replacement Contract".

Said Contract Documents are fully and completely incorporated as part of the Contract as if the same were fully set forth herein.

In consideration of the performance of the work as set forth in these Contract Documents, the City agrees to pay to the Contractor the amounts specified in the Contract Documents and to make such payments upon the Contractor's invoicing as approved by the City.

II. CONTRACT COMPLETION TIME

The Contractor agrees to complete the Project, in all respects on or before _____, 2025.

III. CONTRACT AMOUNT

\$ _____

In Numbers

\$ _____

In Words

IV. **LIQUIDATED DAMAGES**

Liquidated damages in the amount of **\$350.00** per day will apply to the Contractor's unexcused delay in the Completion of Construction. The liquidated damage amount specified herein shall only apply to damages and expenses the Owner may incur as a result of a delay in placing the facility into use and operation exclusive of third party damages or claims. The liquidated damage amount shall not cover any damages or expenses the Owner may incur as a result of the Contractor's unexcused delay in completing any portion of the entire Project, which delay results in whole or in part in delay, disruption, hindrance, interference, damages or expenses to any third party. The Contractor shall remain liable for the full amount of any such delay damages or expenses suffered by any third party without limitation by any liquidated damage provision set forth in the Contract.

IN WITNESS WHEREOF, we, the parties hereto, each herewith subscribe the same this _____ day of _____, 2024.

CITY OF HOMER

By: _____

Melissa Jacobsen

Title: City Manager_____

CONTRACTOR

(Contractor)

By: _____

Title: _____

IX. BID FORM – Fuel Island Replacement

The Bid Form is to be included in Envelope 2 of the RFP submission. All other parts of the submission will go in Envelope 1.

Item	Description	Unit	Qty	Unit Price	Price
1	Mobilization & Demobilization	LS	1		
2	Furnish & Install 6,000 gal Unleaded Fuel Tank	EA	1		
3	Furnish & Install 6,000 gal Diesel Fuel Tank	EA	1		
4	Furnish & Install Electrical and Communication facilities between Tanks and Public Works Building	LS	1		
5	Furnish & Setup Fuel Management Software	LS	1		
6	Furnish & Install Electrical Hardware	LS	1		

Grand Total:_____

Name of Bidding Company_____

Address of Bidding Company_____

Signature of Company Representative _____ Date _____

Printed Name of Company Representative_____

Phone#/Email_____

X. SPECIAL PROVISIONS

The services and construction contract for this project will be administered in accordance with these Special Provisions and the General Provisions of the City of Homer 2011 Standard Construction Specifications. The technical specifications of the City of Homer 2011 Standard Construction Specifications shall not apply to this project as they are replaced by these Special Provisions.

MODIFICATIONS TO THE GENERAL PROVISIONS

SP - 1: Article 5.19 – Easement and Rights-of-way

Add the following language:

“The Contractor will be provided access to a laydown area for material storage, job shack, and other uses. This will be on adjacent City property.”

SP - 2: Article 5.25 - Unusual Work Hours

Add the following sentence:

“The noise level from work completed before 8:00 AM and after 8:00 PM cannot exceed 75 db at a distance of 50 feet.”

SP - 3: Section 10.07 – Modify Article 7.6 – Progress Payments

Remove the following language:

“Until such time as the work is accepted by the City, retainage shall be withheld in accordance with the following schedule:

Contract Completion Percentage	Retainage Percentage
0-75%	10%
76-95%	5%*
Over 95%	5%*

*May be reduced to these percentages depending upon satisfactory performance and adherence to the Contractor’s progress schedule, clean-up, Contract completion cost and other factor, in the judgement of the Engineer.”

And replace with:

“Until such time as the work is accepted by the City, 10% of the final payment application shall be withheld as retainage.”

TECHNICAL SPECIFICATIONS

SECTION 336000 –FUEL STORAGE TANKS AND EQUIPMENT DISTRIBUTION PART 1

- GENERAL

1.1 SUMMARY

- A. Section Includes requirements for the City of Homer Public Works Fuel Systems. Tank systems and dispenser systems shall each be fully assembled by vendor and shipped to the City of Homer for assembly on site.
 - a. Diesel skid package system
 - 1) 6,000-gallon storage (FT-1)
 - 2) Integral fuel distribution system mounted to tank skid
 - b. Gasoline skid package system
 - 1) 6,000-gallon storage (FT-2)
 - 2) Integral fuel distribution system mounted to tank skid

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of product indicated. Include rated capacities, operating characteristics, electrical characteristics, and furnished specialties and accessories. Substitutions shall meet or exceed this specification and must be pre-approved by owner.
- B. Manufacturer recommended list of spare parts.
- C. Tank and Fuel Distribution System Certifications
- D. Shop Drawings: Fuel Tank and Distribution layout(s), including connections to infrastructure components; grounding and bonding, pipe hangars and supports, Fuel Control-Distribution System shop drawings shall include schematic connections, wiring diagrams, control panel elevation and external and internal layout drawings, electrical power diagrams, controls diagram, lighting controls, and equipment assembly instructions.
- E. Warranty Information.

1.3 TEST REPORTS

- A. Preliminary Pneumatic Test (Tanks)
- B. Final Pneumatic Test (Tanks and Fuel Dispensing Piping)
- C. Test Reports for Fuel Control system will be provided under commissioning

1.4 REFERENCE STANDARDS

- A. API 2000 (American Petroleum Institute) - Venting Atmospheric and Low-Pressure Storage Tanks.
- B. ASME B16.3 (American Society of Mechanical Engineers) - Malleable Iron Threaded Fitting.

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- C. ASME B16.26 (American Society of Mechanical Engineers) - Cast Bronze Fittings for Flared Copper Tubes.
 - D. ASME B31.4 (American Society of Mechanical Engineers) - Liquid Petroleum Transportation Piping Systems.
 - E. ASME B31.9 (American Society of Mechanical Engineers) - Building Service Piping.
 - F. ASME B36.10M - Welded and Seamless Wrought Steel Pipe.
 - G. ASTM A53 - Pipe, Steel, Black and Hot-Dipped Zinc Coated, Welded and Seamless.
 - H. ASTM A234 - Pipe Fittings of Wrought Carbon Steel and Alloy Steel for Moderate and Elevated Temperatures.
 - I. AWS D1.1 (American Welding Society) - Structural Welding Code.
 - J. NFPA 30 (National Fire Protection Association) - Flammable and Combustible Liquids Code.
 - K. NFPA 70 (National Electrical Code) – Including Articles 500 -514 as applicable.
 - L. UL 79A (Underwriters Laboratories, Inc.) –Power-Operated Pumps for Gasoline and Gasoline / Ethanol.
 - M. UL 79B (Underwriters Laboratories, Inc.) – Power-Operated Pumps for Diesel Fuel.
 - N. UL 142 (Underwriters Laboratories, Inc.) - Steel Aboveground Tanks for Flammable and Combustible Liquids.
 - O. UL 567 (Underwriters Laboratories, Inc.) - Emergency Breakaway Fittings, Swivel Connectors and Pipe-Connection Fittings for Petroleum Products and LP-Gas.
 - P. UL 842 (Underwriters Laboratories, Inc.) - Standard for Valves for Flammable and Combustible Liquids.
 - Q. UL 1238 (Underwriters Laboratories, Inc.) - Control Equipment for Use with Flammable Liquid and LP-Gas Dispensing Devices.
 - R. UL 2085 (Underwriters Laboratories, Inc.) – Protected Fire-Resistant Steel Aboveground Tanks for Flammable and Combustible Liquids.
 - S. UL 2586 (Underwriters Laboratories, Inc.) - Hose Nozzle Valves for Flammable and Combustible Liquids.
 - T. STI F-92 (Steel Tank Institute) - Double Wall Steel Tank
 - U. NECA (National Electrical Contractors Association) – Recognized standard for installation of electrical systems and equipment.

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- V. NEMA (National Electrical Manufacturers Association)

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Protect fully assembled skid packages from damage.
- B. Comply with manufacturer's written instructions for handling.

PART 2 - PRODUCTS

2.1 PERFORMANCE REQUIREMENTS

- A. Electrical Components, Devices, and Accessories: Listed and labeled as defined in NFPA 70, by a qualified testing agency, and marked for intended location and application.
- B. Comply with UL 142 for aboveground fuel storage tanks, UL 2085 for fire-resistant tanks, and STI F921 for double-wall steel above-ground storage tanks.
- C. Comply with NFPA 30/30A and International Fire Code Compliance.
- D. Environmental Conditions: Fuel tank skid and dispensing equipment shall withstand environmental conditions without structural, mechanical, or electrical damage or degradation of performance capability.

2.2 FUEL STORAGE TANKS

- A. Above-ground double-wall horizontal fuel tanks (FT-1 & FT-2):
 - 1. Tank: Skid-mounted, double-wall type, insulated, heavy gage welded steel, cleaned and coated with urethane, or isophthalic polyester resin, above-ground steel tank, with a tank monitoring system, and an overfill preventer. Provide OSHA compliant access ladder and platform for filling, ground-mounted and top filling systems, clock style liquid level gauge, and electrically isolated pipe connectors with striker plates below each opening. Basis of design: Mascot Fireguard MECA06000FGC-L.
 - 2. Mobility: Skid-mounted with crane lifting lugs having a rated lifting capacity sufficient for safe installation of skid. Features forklift pockets allowing the tank to be easily shipped and moved around when empty.
 - 3. Tanks shall be manufactured and labeled in conformance to NFPA 30, the International Fire Code (IFC), UL 142, and UL 2085 with primary and secondary containment and 3 inches of insulation between the two walls of steel as specified herein.
 - 4. Minimum Tank Fittings:
 - a. One 4-inch product fill opening with camlock fitting and locking cap
 - b. One 3-inch fuel supply opening
 - c. One 4-inch inspection opening

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- d. One 2-to-4-inch Liquid level gauge opening
 - e. One 2-inch Stick opening
 - f. Connections: UL 567, dielectric bushings.
 - g. Access Port: 24-inch diameter, with cover and gasket, and extension sleeve; bolted and located at top of tank.
 - h. Lockable equipment cabinet secures all ports and fittings as well as captures all spills and drips.
5. Accessories:
- a. The following are minimum requirements for tank accessories. Provide additional accessories as required to comply with applicable codes, or as recommended by the tank supplier.
 - b. Top Fill Inlet: Fill inlet tank connection shall include a 5-gallon (minimum) spill containment pan, fill adapter, overfill prevention valve, 2-inch (minimum) drop tube, and lockable fill cap. The containment pan shall have a drain tube that drains spillage back into the tank and shall be mounted to the top of the tank.
 - c. Ground-Mounted Fill: Fill inlet tank connection shall include a 5-gallon (minimum) spill containment pan, fill adapter, overfill prevention valve, 2-inch (minimum) drop tube, and lockable fill cap. The containment pan shall have a drain tube that drains spillage back into the tank and shall be mounted to the top of the tank.
 - d. Emergency Vent: Morrison Bro. 244 Series or equal.
 - e. Primary Tank Vent: Provide 2-inch tee style vent with screen, terminate vent minimum 12 ft above ground level. Morrison 155 or approved equal.
 - f. Liquid Level Gauge: Provide clock style level gauge, MOR 818 or equal.
 - g. Fuel Leak Detection Sensor: Provide a bright-eye sensor to detect any leak of the primary tank into the secondary tank. Equipped with four wire buss technology, internal microprocessor, shielded 22 ASW sensor cable with drain wire. Not affected by hydrocarbon vapors or condensation. Basis of design: Omntec OM-BX-PDWS.
 - h. Fuel Level Detection Sensor: Provide magnetostrictive tank gauging inventory probe. UL-listed tube-in-tube construction in single or dual float configurations. Basis of design: Omntec MTG-RS-R1F2-03.
 - i. Fuel Leak and Level Detection Monitoring system: Equipped with microprocessor, 7-inch touch screen graphic display, five programmable relays, thirty-two dry contact relays, web server, VPN capability, ethernet/TCP/IP standard, and email/text capability. Basis of Design: Omntec Proteus OEL8000IIIXP.
 - j. Remote Annunciator / Alarm: User programmable audio-visual alarm equipped with 100dB multi frequency horn and 60,000 candle power red light with flash rate of 50- 120 flashes/minute. Equipped with NEMA 4x non-metallic, corrosion resistant enclosure. Provide with IB-RAS remote annunciator interface board. Basis of design: Omntec OM-RAS-1-NYS.
 - k. Junction Box: Provide junction box for probes and sensors. Basis of design: Omntec U-JBK-1.
 - l. Fire extinguisher.

2.3 RIGID FUEL OIL PIPING

- A. Steel Pipe: ASTM A53/A53M or ASME B36.10M Schedule 40 black.

1. Fittings: ASME B16.3, malleable iron, or ASTM A234/A234M wrought carbon steel and alloy steel welding type.
2. Joints: Threaded for pipe 2 inch (50 mm) and smaller; welded for pipe 2-1/2 inches (65 mm) and larger.

2.4 FUEL MANAGEMENT SYSTEM

A. Fuel Dispensing System – Unleaded

1. Submersible Turbine Pumps: 3/4 HP fixed speed submersible pump listed UL79A and UL79B with max motor draw of 7 amps. Equipped with adjustable length shaft, active air eliminator, intake filter, monitoring and control interface, and manual pressure relief. Basis of design: Mascott FESTP-75VL2-12.
 - a. Controls: Provide Single phase control box relay. Basis of design: FE Petro 400818921.
2. Anti-siphon valve: Provide ductile iron e-coated body with stainless steel cap, spring, and plunger, and with Viton disc. Basis of design: Morrison Bros MR910-1100AV.
3. Ball valve: Provide stainless steel ball valve with solid ball construction, lockable latch lock handle, threaded connection. Basis of design: Jomar Valve JO601-607.
4. Flexible connection: 1-1/2-inch hose diameter with minimum bend radius of 4-1/2-inches and length of 18-inches for working pressure of 50 psi. Basis of design: Hose Master Fireshield HMFSMS18x1.5.
5. Fuel Filter: Provide 30 micron particulate filter capable of 25 gpm flow and 50 psi working pressure. Basis of design: Cim Tek CT70065.
6. Filter Mounting Adaptor: Provide aluminum mounting adaptor for filter installation. Basis of design: Cim Tek CT50032.
7. Fleet Fuel Dispenser: Provide shelf-mount fleet dispenser. Basis of design: Wayne Fueling Systems Reliance S1 WY/G6101D/27AJ/JSW1Electrical: 120 volt, single phase.
 - a. Dispenser shall be equipped with two-piston displacement meters capable of 22 gpm for fleet fueling. Working pressure up to 50 psi.
 - b. Register: Mechanical register with power reset with interlock. Non-resettable accumulative totalizer.
 - c. Solenoid valve: 1-inch, two-stage valve.
 - d. Cabinet: Galvannealed steel, corrosion resistant panels with powder coat finish. Locking door and panels shall be removable for servicing.
 - e. Nozzle Boot and Hook: Fits standard UL nozzles. Lift to start nozzle hook.
8. Emergency Shut-off Valve: Provide corrosion resistant cast iron body valve with stainless steel poppet spring and shear groove design with fusible link., in compliance with UL 842. Basis of design: OPW 10BHMP-5830.
9. Retail / Commercial Nozzle: Provide automatic nozzle with aluminum body, Duratuff lever and lever guard, graphite with Teflon packing, Viton disc, and aluminum spout. Nozzle shall be provided with spill prevention that will not allow nozzle to open unless pumping system is pressurized and shall be equipped with FlowLock to shut-off nozzle

when falling out of vehicle. Capable of working pressure up to 50 psi. UL-2586 listed. Basis of design: OPW 11BP-0400.

10. Dry Reconnectable Breakaway: Provide 3/4-inch die-cast zinc body with impact resistant nylon sleeves, Viton seals, stain less steel spring and acetal guide and poppets. Capable of maximum of 50 psi working pressure and able to breakaway with pull force of no more than 350 pounds. Basis of Design: OPW 66REC-1000.
11. Hose Swivel: Provide aluminum body with zinc adaptors and buna-n seals. UL listed and capable of maximum of 50 psi working pressure. Basis of design: OPW 45-5075.

B. Fuel Dispensing System - Diesel

1. Submersible Turbine Pumps: 3/4 HP fixed speed submersible pump listed UL79A and UL79B with max motor draw of 7 amps. Equipped with adjustable length shaft, active air eliminator, intake filter, monitoring and control interface, and manual pressure relief. Basis of design: Mascott FESTP-75VL2-12.
 - a. Controls: Provide Single phase control box relay. Basis of design: FE Petro 400818921.
2. Anti-siphon valve: Provide ductile iron e-coated body with stainless steel cap, spring, and plunger, and with Viton disc. Basis of design: Morrison Bros MR910-1100AV.
3. Ball valve: Provide stainless steel ball valve with solid ball construction, lockable latch lock handle, threaded connection. Basis of design: Jomar Valve JO601-607.
4. Flexible connection: 1-1/2-inch hose diameter with minimum bend radius of 4-1/2-inches and length of 18-inches for working pressure of 50 psi. Basis of design: Hose Master Fireshield HMFSMS18x1.5.
5. Fuel Filter: Provide 30 micron particulate filter capable of 25 gpm flow and 50 psi working pressure. Basis of design: Cim Tek CT70065.
6. Filter Mounting Adaptor: Provide aluminum mounting adaptor for filter installation. Basis of design: Cim Tek CT50032.
7. Fleet Fuel Dispenser: Provide shelf-mount fleet dispenser. Basis of design: Wayne Fueling Systems Reliance S1 WY/G6101D/27AJ/JSW1Electrical: 120 volt, single phase.
 - a. Dispenser shall be equipped with two-piston displacement meters capable of 22 gpm for fleet fueling. Working pressure up to 50 psi.
 - b. Register: Mechanical register with power reset with interlock. Non-resettable accumulative totalizer.
 - c. Solenoid valve: 1-inch, two-stage valve.
 - d. Cabinet: Galvannealed steel, corrosion resistant panels with powder coat finish. Locking door and panels shall be removable for servicing.
 - e. Nozzle Boot and Hook: Fits standard UL nozzles. Lift to start nozzle hook.

8. Emergency Shut-off Valve: Provide corrosion resistant cast iron body valve with stainless steel poppet spring and shear groove design with fusible link., in compliance with UL 842. Basis of design: OPW 10BHMP-5830.
 9. High-flow fleet fill nozzle: Provide Automatic shut-off, heavy-duty, high flow nozzle constructed of aluminum body with Duratuff lever and lever guard, graphite with Teflon packing, Viton disc and aluminum spout. Nozzle shall be provided with spill prevention that will not allow nozzle to open unless pumping system is pressurized and shall be equipped with FlowLock to shut-off nozzle when falling out of vehicle. Capable of working pressure up to 50 psi. UL-2586 listed. Basis of design: OPW 7HB-0100.
 10. Swivel Breakaway: Provide aluminum body, nylon HDPE sleeve with Viton seals stainless steel spring, and aluminum poppet. Capable of working pressure up to 50 psi and breakaway with pull force of no more than 350 pounds. Basis of design: OPW 66SB-1010.
 11. Hose Swivel: Provide aluminum body with zinc adaptors and buna-n seals. UL listed and capable of maximum of 50 psi working pressure. Basis of design: OPW 45-5075.
- C. Fuel Management – Provide realtime transaction and fleet data accessible from secure cloud hosted FMLive software or approved equal. Provide mechanical dispensers, tank monitoring, firmware updates, surge protection, LCD display, power indication and illuminated keypad. Capable of communication via integrated wired ethernet, integrated wi-fi, integrated cellular and encrypted communications. Must be compatible with common key card systems. UL-1238 listed and FCC certified. Basis of design: Fuelmaster 4000 Series FMU5710-F2.
1. Fuel system data management – Provide software with real-time monitoring, controlling, and reporting of fuel dispensing activities. Provide adequate security measures to prevent fuel theft and unauthorized usage of fuel system. Support remote access for multiple users and offer role-based security to protect the integrity of the organization's data. Include automated fuel reconciliation, invoicing, real-time inventory management, and usage tracking by vehicle and driver, and customizable reporting tools.
 - a. Alerting – Generate alerts for low inventory, maintenance schedules, and discrepancies in fuel usage, as well as support the capability to limit quantity based on vehicle or driver group.
 - b. Integration – Integrate seamlessly with the fuel dispensing hardware and peripheral systems to ensure accuracy, security, and efficiency in fuel transactions. Compatibility with mobile devices and integration with existing fleet management and accounting systems is required to streamline operations.
- D. Electrical, Mechanical and Instrumentation: vendor to propose equipment related to each of these disciplines for the storage tanks proposed.

END OF SECTION
336000