

From: Michael Stierli
To: [Lemos, June](#)
Cc: [Varga, Tom](#); [O'Connor, Diane](#); [O'Neal, Chantell](#); [Prairie, Crystal](#); [Owen, Jennifer](#); [Smith, John](#)
Subject: Bid Protest
Date: Tuesday, December 5, 2017 12:51:13 PM
Attachments: [Ft Bragg \(84X45\) Akeff Construction Proposal 12-01-2017.pdf](#)
[Ft Bragg \(84X45\) Wylatti Proposal 12-01-2017.pdf](#)
[Ft Bragg \(84X45\) Argonaut Construction Proposal 12-04-2017.pdf](#)
[Ft Bragg \(84X45\) Granite Construction Proposal 12-01-2017.pdf](#)

Ms. Lemos,

After reviewing the bid from Akeff Construction, we are compelled to file a bid protest based on the inexperience of the low bidder. The Contractor Reference form included in the bid documents requests the bidder list projects of a similar nature. We cannot find any heavy civil projects listed for the low bidder let alone any tank projects whatsoever. We believe that the City put the Contractor's Reference form in the bid documents for a reason.

While Akeff may have many years' experience in the work they have listed, we believe the City would agree that a 1.5 million gallon water storage tank is not the type nor size project that a contractor should cut-their-teeth-on. With close to 100,000 pounds of reinforcing steel and 400 cubic yards of concrete, the complexity of a heavy civil project such as this one requires an experienced project manager that can oversee and ensure the proper construction of a large tank foundation.

Akeff's listed subcontractors on page 2-13 should give the City further concern. This general has subcontracted out the reinforcing steel and concrete. With the tank erection a specialty item, the essence of this project is the tank foundation. Rebar and concrete subcontractors will need experienced supervision during the course of this project. For example, has the concrete subcontractor, Franco Construction, formed or poured a foundation of this nature and size?

Why is the tank price listed on page 2-13 \$450,000, but the cost quoted to all the contractors \$861,850 (see attached) or \$828,050 in Akeff's bid schedule?

The City should take note of public bid precedent. An obvious error on a bid can release a contractor from his bid without concern for forfeiting their bid bond. On the contrary, a bid cannot be accepted by a public entity with a blatant error that would have allowed the contractor the option of claiming an error and being released from their bid. To allow contractors to insert errors into their bid would provide an escape clause for public bids and negate the purpose of a bid bond. Akeff's tank cost on the bid schedule is less than what Aquastore quoted.

Thank you,
M. Shawn Stierli
MDS Engineering & Construction, Inc.
530-275-2779



City of Ft. Bragg 1.5 Million Gallon Tank Proposal

Akeff Construction

Attn: Jeff Green

December 1, 2017

**Subject: Proposal #1708018–City of Fort Bragg Water Storage Tank
1,691,288 Useable Gallons Glass Fused to Steel Water Storage Tank**

Dear Jeff;

California Aquastore (CAS) is pleased to respectfully submit this Scope of Work letter for the installation of One (1) Glass Fused to Steel Bolted Storage Tank for the City of Fort Bragg Tank Project. This tank has been designed based on the preliminary design information provided by the City of Fort Bragg and the Tank Manufacturer. Final tank design and price impacts will be completed based on final system design, detailed chemical and physical data on the tank contents, and a site specific geotechnical report.

Scope of Work

- Provide Standard Engineered Drawings from the Tank Manufacturer CST, stamped by a California Registered Professional Civil Engineer for the foundation and tank designs.
- Furnish (US Manufactured) and install steel bolted storage tanks; tank structures and appurtenances as listed.
- The price includes all required labor (Prevailing Wage, non-union), materials, taxes and equipment.

Tank Proposal

The proposed installed cost for the design, procurement and installation of the above tanks is:

Ft. Bragg Water Tank – One (1) 84' x 45' – 60" Freeboard (1,691,288 Useable Gallons) \$ 861,650.00

California Aquastore will furnish all labor, materials, equipment and incidentals required to design, fabricate and install the above referenced factory coated bolted steel storage tank(s), and tank appurtenances as shown in this scope of work. The steel tank will be installed on the concrete foundation designed by the steel tank manufacturer. The design, materials, fabrication and methods of construction shall conform to the requirements of the AWWA- D103-09 for Factory Coated Bolted Steel Tanks.

PO Box 551131, South Lake Tahoe, CA 96155

Phone (925) 667-1039

License Number: #1013296 A

DIR Registration #1000038543

City of Ft Bragg Water Storage Tank – (84' X 45')

1. **Installation of One (1) Glass Fused to Steel Bolted Storage Tank of approximately 1,691,288 useable gallons with a diameter of 83.92 ft. and height of 44.99 ft. with 59.88" of estimated Freeboard (Does not meet AWWA recommendation/requirement for Sloshing Wave Height).**
2. **Tank Design**
 - a. Tank to Store: Potable Water
 - b. Specific Gravity: 1.0
 - c. pH: 6 to 8 @ ambient temperature
 - d. Tank Designed in Accordance with: AWWA
 - e. Seismic Design: IBC 2012/2015
 - f. Zip Code: 95437
 - g. Seismic:
 - i. Ss: 1.5
 - ii. S1: 0.78
 - iii. Seismic Site Class: C
 - iv. Seismic Importance Factor: 1.5
 - v. TL: 12
 - h. Wind Speed: 120 mph
 - i. Exposure Category: C
 - j. Risk Category: 4
 - k. Wind Importance Factor: 0
 - l. Snow Load: 30 PSF
 - m. Operating Pressure: 0-inch Water Column Pressure, 0-inch Vacuum
3. **Mid Starter Ring Embedded in Concrete Foundation Constructed by Others.**
4. **Exterior Tank Color: Cobalt Blue**
5. **Tank Accessories:**
 - a. 1 – 30" Shell Manway (Galvanized)
 - b. 1 – Aluminum Ladder with Galvanized Cage and Bracket Assembly, Extension to Grade, Lockable Device, and Standard Manway Observation Platform.
 - c. CST Standard Cathodic Protection with 14 Standard Anodes based on assumed resistivity of 4,520 ohm-cm.
 - d. 1 – 12" x 8" Inlet Nozzle, exterior, FxF, CS Epoxy
 - e. 1 – 12" x 8" Inlet Nozzle, interior, FxPlain, CS Epoxy (w/ 45° elbow/bend)
 - f. 1 – 12" Diameter 90° Elbow, exterior, FxF, CS Epoxy (for Inlet Riser Pipe Connection to Exterior Inlet Nozzle)
 - g. 1 – 39ft Section of 12" Inlet Riser Pipe, Fx??, CS Epoxy (Cobalt Blue)
 - h. 1 – Set of 10 Stand-off Pipe Support Brackets (for 12" Inlet Riser Pipe, Cobalt Blue)
 - i. 1 – 18" x 8" Outlet Nozzle, exterior, FxF, CS Epoxy (Cobalt Blue)
 - j. 1 – 18" Suction Nozzle, interior, FxF, CS Epoxy (for Outlet) w/ Vortex Breaker
 - k. 1 – 12" x 8" Overflow Nozzle, interior, FxF, CS Epoxy
 - l. 1 – Overflow Weir Cone 12" x ??", interior, FxPlain, CS Epoxy
 - m. 1 – Stainless Steel Standoff Pipe Support Bracket (for 12" Dia Overflow Weir)
 - n. 1 – 12" x 8" Overflow Nozzle, exterior, FxF, CS Epoxy (Cobalt Blue)
 - o. 1 – 12" Diameter 90° Elbow, exterior, FxF, CS Epoxy (for Overflow Dropper Pipe Connection to Exterior Overflow Nozzle)
 - p. 1 – 40ft Section of 12" Overflow Dropper Pipe, Fx??, CS Epoxy (Cobalt Blue)
 - q. 1 – Set of 10 Exterior Stand-off Pipe Support Brackets
 - for 12" Overflow Dropper Pipe, Cobalt Blue
 - r. 1 – 6" x 8" Drain Nozzle, exterior, FxF, CS Epoxy (Cobalt Blue)
 - s. 1 – 6" x 8" Drain Nozzle, interior, FxF, CS Epoxy
 - t. 1. Full Height Mechanical Liquid Level Indicator

6. Temcor Dome Roof - Standard Aluminum Finish

- a. Dome Accessories;
 - i. 2 - 30" Square Access Hatch
 - ii. 1 - 24" Gravity Vent
 - iii. 1 - Walkway with Guard Rail (one sided) to Dome Apex
 - iv. 1 - 42" Railing and Toeboard to extend 10ft in each direction beyond ladder and roof hatch.

7. Special Requirements

- a. All Exterior Appurtenances Color Matched to Cobalt Blue
- b. Backflow Preventer for 12" Inlet Pipe (@ 39' Elevation)

Qualifications & Conditions

- California Aquastore provides a PDF submittal package that includes State of California PE stamped drawing for the tank and foundations including associated engineering calculations and appurtenances details. CAS can provide non-engineer and unstamped CAD informational drawings that show a plan view, sectional views, and flat panel views that show proposed locations of connections and tank vertical and horizontal seams for the tank. Any additional drawings or stamps may be provided at an additional cost.
- This proposal is based on standard CST tank sizes and appurtenances as listed and is intended to comply with all project requirements. Any items or specifications not specifically mentioned are not part of this Proposal and the customer is responsible for verifying all tank specification & plan compliance.
- GC or Owner to provide unloading, site sanitary facilities, accessible job site access, staging area (50' from tank site sufficient in size for tank staging), and dumpster.
- Site is assumed to be reasonably flat and level without obstructions with unrestricted access including access for 40' flatbed trailers for tank delivery.
- Freight is included FOB to Site.
 - All Materials to Ship as One. Multiple shipments will incur extra charges.
- Tank design and pricing are based on CST Dome Loads only. Any additional loads on tank may require additional engineering and tank wall steel.
- Safety - price is based on using standard tank jacks. We have not included a full-time safety person and the CAS Foreman will act as our on-site safety representative. It is CAS's understanding that our tanks are a non-permit confined space so long as the wall panels allow access to the work area. Site specific safety training or Fire watch is not included.
- Pricing includes;
 - One (1) mobilization to the site for foundation support.
 - One (1) mobilization for tank installation.
 - One (1) mobilization for testing.
 - Any additional mobilizations to be billed at \$2,500.
- Payment Terms*:
 - 30% upon commencement of Engineering Submittals.
 - 30% upon shipment of materials.
 - 30% upon tank installation.
 - 10% retention due within 30 days following completion of tank and testing.

▪ ***Payment Terms Can Be Changed as Needed**

- Schedule – CAS will provide submittals within 1 week of receipt of executed tank order. Estimated Fabrication Schedule is;
 - 9 - 10 Weeks – Delivery of tank material to site following approval of submittals.
 - Tank Installation; Approximately 8 - 9 weeks - allow approximately 2 weeks for curing after foundation has been poured before tank installation.
 - 1 Week Testing/Servicing – Tank to be filled by others.
 - Schedule is based on a single crew working a standard M – F 40-hour work week.
 - Every effort will be made to meet schedule requirements. CAS is not responsible for delays due to; adverse weather conditions, factory or shipping issues, building permits, or any other delay out of the control of California Aquastore.
- All nozzles #150 lb flange face with Grade 8 bolts and zero-degree Hillside angle.
- Zinc bolts, nuts, washers and gaskets are standard. Interior plastic encapsulated head bolts for interior vertical seams are included.
- All appurtenances that are to be attached to the tank must be done by CAS personnel or extra charges could possibly be incurred.
- Installation by CAS utilizes factory certified personnel. Installation will be performed in a workman like manner in accordance with the contract documents.
- All tank penetrations are field cut unless specifically noted as a factory cut.
- Ladders and manways are per CAL/OSHA Requirements, but do not include any local conditions that may apply.
- Governing Codes: CST Storage Company utilizes those standards, specifications and/or interpretations and recommendations of professionally recognized agencies and groups such as AWWA, API, ACI, AISI, AWS ASTM, Factory Mutual, U.S. Government, etc. as the basis in establishing its own design, fabrication and quality criteria, standards, practices, methods and tolerances.
- Owner is responsible to; blind and close all flanges and valves, disinfect, fill the tank to level required for a continuous 24-hour period, and provide water sampling and testing. CAS to provide one day of hydrostatic testing support upon one week notice. Once testing is complete owner is responsible for emptying and disposal of water (if required).
- All non-standard applications that do not include water or municipal waste water require submittal of water chemistry by owner at time of bid. CST and CAS are not responsible for undisclosed water chemistry and warranty may be voided.
- Warranty is standard 5 year on materials and installation for Glass Fused to Steel tanks with CST standard Cathodic Protection for storage of only municipal water or wastewater (copy of warranty can be provided on request). Tank and Cathodic Protection inspections at 1, 3 and 4 years are required (inspections cost are not included). Visual tank inspection and Cathodic Protection Inspection can be provided for an additional cost of \$800 each with two to three weeks' advanced notice. Water Chemistry data to be provided by owner.
- Warranty is standard 1 year on materials and workmanship for Temcor Domes.
- The prices quoted in this document are valid for 30 days from the date of this document for Carbon Steel Tanks and associated fittings. After these expiration dates, tank and associated fitting prices must be re-quoted. Delivery must be accepted within 120 days, unless delayed by CST Storage.
- Indemnification in contract documents to be based on proportionate fault.
- Insurance rates based on CAS standard insurance (a copy can be provided upon request) with no OCIP, Builders Risk or other unusual insurance requirements.
- Verification of Funds and Pre-Lien information will be required prior to mobilization.
- This proposal is based on the stated parameters as listed only. If any changes are made to these parameters, the proposal is subject to change.

- This proposal (or its entire specifications, terms, and conditions) will be made part of any subsequent contract. California Aquastore will be the contracting entity for this contract and please use CAS for any subcontractor listings and contract documents.

Foundation Information:

Concrete Foundation is to be provided by others. California Aquastore to provide and install Mid Starter Ring after the rebar installation and before the concrete slab pour. Typical foundation designs are assumed to be for a standard strip footing foundation.

Exclusions

- Bonding but can be provided for 2.5% Extra.
- Separate Mobilizations for multiple tank projects.
- Concrete Foundations.
- Permits & Fees.
- Tank Unloading, Site Sanitary, Dumpster, restricted access, and remote laydown area.
- Exterior Piping, Valves and Fittings – Nozzle installation is to the first outer flange connection from tank wall. All flanges are with no hillside angle unless noted separately.
- Interior Piping and Fittings.
- Level Control Instrumentation or Transmitters.
- Obstruction Lighting or Beacon Equipment.
- Mechanical or electrical systems.
- Survey & Geotechnical Testing.
- Sub grade drains or piping.
- SWPP and erosion control plans, installation, monitoring or maintenance.
- Tank Insulation.
- Interior Ladders, Perimeter Railings on Roof, or Platforms except as listed.
- Mixers and accessories.
- Tank filling, disinfection, sampling, testing, and disposal of water (if required)
- Any items not specifically listed in this quote.

Should you have any questions or would like to meet to discuss this proposal, please contact me at (925) 667-1039.

Sincerely,

CALIFORNIA AQUASTORE



Eric Harper

e.harper@californiaaquastore.com

Acceptance of Proposal: The above prices and Scope of Work are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.



Authorized Signature _____ Dated _____



City of Ft. Bragg 1.5 Million Gallon Tank Proposal

Argonaut Const.
Attn: Steve Langhals

December 4, 2017

Subject: Proposal #1708018–City of Fort Bragg Water Storage Tank
1,691,288 Useable Gallons Glass Fused to Steel Water Storage Tank

Dear Steve;

California Aquastore (CAS) is pleased to respectfully submit this Scope of Work letter for the installation of One (1) Glass Fused to Steel Bolted Storage Tank for the City of Fort Bragg Tank Project. This tank has been designed based on the preliminary design information provided by the City of Fort Bragg and the Tank Manufacturer. Final tank design and price impacts will be completed based on final system design, detailed chemical and physical data on the tank contents, and a site specific geotechnical report.

Scope of Work

- Provide Standard Engineered Drawings from the Tank Manufacturer CST, stamped by a California Registered Professional Civil Engineer for the foundation and tank designs.
- Furnish (US Manufactured) and install steel bolted storage tanks; tank structures and appurtenances as listed.
- The price includes all required labor (Prevailing Wage, non-union), materials, taxes and equipment.

Tank Proposal

The proposed installed cost for the design, procurement and installation of the above tanks is:

Ft. Bragg Water Tank – One (1) 84' x 45' – 60" Freeboard (1,691,288 Useable Gallons) \$ 861,650.00

California Aquastore will furnish all labor, materials, equipment and incidentals required to design, fabricate and install the above referenced factory coated bolted steel storage tank(s), and tank appurtenances as shown in this scope of work. The steel tank will be installed on the concrete foundation designed by the steel tank manufacturer. The design, materials, fabrication and methods of construction shall conform to the requirements of the AWWA- D103-09 for Factory Coated Bolted Steel Tanks.

PO Box 551131, South Lake Tahoe, CA 96155
Phone (925) 667-1039
License Number: #1013296 A
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City of Ft Bragg Water Storage Tank – (84' X 45')

1. **Installation of One (1) Glass Fused to Steel Bolted Storage Tank of approximately 1,691,288 useable gallons with a diameter of 83.92 ft. and height of 44.99 ft. with 59.88" of estimated Freeboard (Does not meet AWWA recommendation/requirement for Sloshing Wave Height).**
2. **Tank Design**
 - a. Tank to Store: Potable Water
 - b. Specific Gravity: 1.0
 - c. pH: 6 to 8 @ ambient temperature
 - d. Tank Designed in Accordance with: AWWA
 - e. Seismic Design: IBC 2012/2015
 - f. Zip Code: 95437
 - g. Seismic:
 - i. Ss: 1.5
 - ii. S1: 0.78
 - iii. Seismic Site Class: C
 - iv. Seismic Importance Factor: 1.5
 - v. TL: 12
 - h. Wind Speed: 120 mph
 - i. Exposure Category: C
 - j. Risk Category: 4
 - k. Wind Importance Factor: 0
 - l. Snow Load: 30 PSF
 - m. Operating Pressure: 0-inch Water Column Pressure, 0-inch Vacuum
3. **Mid Starter Ring Embedded in Concrete Foundation Constructed by Others.**
4. **Exterior Tank Color: Cobalt Blue**
5. **Tank Accessories:**
 - a. 1 – 30" Shell Manway (Galvanized)
 - b. 1 – Aluminum Ladder with Galvanized Cage and Bracket Assembly, Extension to Grade, Lockable Device, and Standard Manway Observation Platform.
 - c. CST Standard Cathodic Protection with 14 Standard Anodes based on assumed resistivity of 4,520 ohm-cm.
 - d. 1 – 12" x 8" Inlet Nozzle, exterior, FxF, CS Epoxy
 - e. 1 – 12" x 8" Inlet Nozzle, interior, FxPlain, CS Epoxy (w/ 45° elbow/bend)
 - f. 1 – 12" Diameter 90° Elbow, exterior, FxF, CS Epoxy (for Inlet Riser Pipe Connection to Exterior Inlet Nozzle)
 - g. 1 – 39ft Section of 12" Inlet Riser Pipe, Fx??, CS Epoxy (Cobalt Blue)
 - h. 1 – Set of 10 Stand-off Pipe Support Brackets (for 12" Inlet Riser Pipe, Cobalt Blue)
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6. Temcor Dome Roof - Standard Aluminum Finish

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- Warranty is standard 5 year on materials and installation for Glass Fused to Steel tanks with CST standard Cathodic Protection for storage of only municipal water or wastewater (copy of warranty can be provided on request). Tank and Cathodic Protection inspections at 1, 3 and 4 years are required (inspections cost are not included). Visual tank inspection and Cathodic Protection Inspection can be provided for an additional cost of \$800 each with two to three weeks' advanced notice. Water Chemistry data to be provided by owner.
- Warranty is standard 1 year on materials and workmanship for Temcor Domes.
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- Mixers and accessories.
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- Any items not specifically listed in this quote.

Should you have any questions or would like to meet to discuss this proposal, please contact me at (925) 667-1039.

Sincerely,

CALIFORNIA AQUASTORE



Eric Harper

e.harper@californiaaquastore.com

Acceptance of Proposal: The above prices and Scope of Work are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.



Authorized Signature _____ Dated _____



City of Ft. Bragg 1.5 Million Gallon Tank Proposal

Granite Construction
Attn: Jenni McKenzie

December 1, 2017

Subject: Proposal #1708018–City of Fort Bragg Water Storage Tank
1,691,288 Useable Gallons Glass Fused to Steel Water Storage Tank

Dear Jenni;

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Phone (925) 667-1039
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 - b. Specific Gravity: 1.0
 - c. pH: 6 to 8 @ ambient temperature
 - d. Tank Designed in Accordance with: AWWA
 - e. Seismic Design: IBC 2012/2015
 - f. Zip Code: 95437
 - g. Seismic:
 - i. Ss: 1.5
 - ii. S1: 0.78
 - iii. Seismic Site Class: C
 - iv. Seismic Importance Factor: 1.5
 - v. TL: 12
 - h. Wind Speed: 120 mph
 - i. Exposure Category: C
 - j. Risk Category: 4
 - k. Wind Importance Factor: 0
 - l. Snow Load: 30 PSF
 - m. Operating Pressure: 0-inch Water Column Pressure, 0-inch Vacuum
3. **Mid Starter Ring Embedded in Concrete Foundation Constructed by Others.**
4. **Exterior Tank Color: Cobalt Blue**
5. **Tank Accessories:**
 - a. 1 – 30" Shell Manway (Galvanized)
 - b. 1 – Aluminum Ladder with Galvanized Cage and Bracket Assembly, Extension to Grade, Lockable Device, and Standard Manway Observation Platform.
 - c. CST Standard Cathodic Protection with 14 Standard Anodes based on assumed resistivity of 4,520 ohm-cm.
 - d. 1 – 12" x 8" Inlet Nozzle, exterior, FxF, CS Epoxy
 - e. 1 – 12" x 8" Inlet Nozzle, interior, FxPlain, CS Epoxy (w/ 45° elbow/bend)
 - f. 1 – 12" Diameter 90° Elbow, exterior, FxF, CS Epoxy (for Inlet Riser Pipe Connection to Exterior Inlet Nozzle)
 - g. 1 – 39ft Section of 12" Inlet Riser Pipe, Fx??, CS Epoxy (Cobalt Blue)
 - h. 1 – Set of 10 Stand-off Pipe Support Brackets (for 12" Inlet Riser Pipe, Cobalt Blue)
 - i. 1 – 18" x 8" Outlet Nozzle, exterior, FxF, CS Epoxy (Cobalt Blue)
 - j. 1 – 18" Suction Nozzle, interior, FxF, CS Epoxy (for Outlet) w/ Vortex Breaker
 - k. 1 – 12" x 8" Overflow Nozzle, interior, FxF, CS Epoxy
 - l. 1 – Overflow Weir Cone 12" x ??", interior, FxPlain, CS Epoxy
 - m. 1 – Stainless Steel Standoff Pipe Support Bracket (for 12" Dia Overflow Weir)
 - n. 1 – 12" x 8" Overflow Nozzle, exterior, FxF, CS Epoxy (Cobalt Blue)
 - o. 1 – 12" Diameter 90° Elbow, exterior, FxF, CS Epoxy (for Overflow Dropper Pipe Connection to Exterior Overflow Nozzle)
 - p. 1 – 40ft Section of 12" Overflow Dropper Pipe, Fx??, CS Epoxy (Cobalt Blue)
 - q. 1 – Set of 10 Exterior Stand-off Pipe Support Brackets
 - for 12" Overflow Dropper Pipe, Cobalt Blue
 - r. 1 – 6" x 8" Drain Nozzle, exterior, FxF, CS Epoxy (Cobalt Blue)
 - s. 1 – 6" x 8" Drain Nozzle, interior, FxF, CS Epoxy
 - t. 1. Full Height Mechanical Liquid Level Indicator

6. Temcor Dome Roof - Standard Aluminum Finish

- a. Dome Accessories;
 - i. 2 - 30" Square Access Hatch
 - ii. 1 - 24" Gravity Vent
 - iii. 1 - Walkway with Guard Rail (one sided) to Dome Apex
 - iv. 1 - 42" Railing and Toeboard to extend 10ft in each direction beyond ladder and roof hatch.

7. Special Requirements

- a. All Exterior Appurtenances Color Matched to Cobalt Blue
- b. Backflow Preventer for 12" Inlet Pipe (@ 39' Elevation)

Qualifications & Conditions

- California Aquastore provides a PDF submittal package that includes State of California PE stamped drawing for the tank and foundations including associated engineering calculations and appurtenances details. CAS can provide non-engineer and unstamped CAD informational drawings that show a plan view, sectional views, and flat panel views that show proposed locations of connections and tank vertical and horizontal seams for the tank. Any additional drawings or stamps may be provided at an additional cost.
- This proposal is based on standard CST tank sizes and appurtenances as listed and is intended to comply with all project requirements. Any items or specifications not specifically mentioned are not part of this Proposal and the customer is responsible for verifying all tank specification & plan compliance.
- GC or Owner to provide unloading, site sanitary facilities, accessible job site access, staging area (50' from tank site sufficient in size for tank staging), and dumpster.
- Site is assumed to be reasonably flat and level without obstructions with unrestricted access including access for 40' flatbed trailers for tank delivery.
- Freight is included FOB to Site.
 - All Materials to Ship as One. Multiple shipments will incur extra charges.
- Tank design and pricing are based on CST Dome Loads only. Any additional loads on tank may require additional engineering and tank wall steel.
- Safety - price is based on using standard tank jacks. We have not included a full-time safety person and the CAS Foreman will act as our on-site safety representative. It is CAS's understanding that our tanks are a non-permit confined space so long as the wall panels allow access to the work area. Site specific safety training or Fire watch is not included.
- Pricing includes;
 - One (1) mobilization to the site for foundation support.
 - One (1) mobilization for tank installation.
 - One (1) mobilization for testing.
 - Any additional mobilizations to be billed at \$2,500.
- Payment Terms*:
 - 30% upon commencement of Engineering Submittals.
 - 30% upon shipment of materials.
 - 30% upon tank installation.
 - 10% retention due within 30 days following completion of tank and testing.

▪ ***Payment Terms Can Be Changed as Needed**

- Schedule – CAS will provide submittals within 1 week of receipt of executed tank order. Estimated Fabrication Schedule is;
 - 9 - 10 Weeks – Delivery of tank material to site following approval of submittals.
 - Tank Installation; Approximately 8 - 9 weeks - allow approximately 2 weeks for curing after foundation has been poured before tank installation.
 - 1 Week Testing/Servicing – Tank to be filled by others.
 - Schedule is based on a single crew working a standard M – F 40-hour work week.
 - Every effort will be made to meet schedule requirements. CAS is not responsible for delays due to; adverse weather conditions, factory or shipping issues, building permits, or any other delay out of the control of California Aquastore.
- All nozzles #150 lb flange face with Grade 8 bolts and zero-degree Hillside angle.
- Zinc bolts, nuts, washers and gaskets are standard. Interior plastic encapsulated head bolts for interior vertical seams are included.
- All appurtenances that are to be attached to the tank must be done by CAS personnel or extra charges could possibly be incurred.
- Installation by CAS utilizes factory certified personnel. Installation will be performed in a workman like manner in accordance with the contract documents.
- All tank penetrations are field cut unless specifically noted as a factory cut.
- Ladders and manways are per CAL/OSHA Requirements, but do not include any local conditions that may apply.
- Governing Codes: CST Storage Company utilizes those standards, specifications and/or interpretations and recommendations of professionally recognized agencies and groups such as AWWA, API, ACI, AISI, AWS ASTM, Factory Mutual, U.S. Government, etc. as the basis in establishing its own design, fabrication and quality criteria, standards, practices, methods and tolerances.
- Owner is responsible to; blind and close all flanges and valves, disinfect, fill the tank to level required for a continuous 24-hour period, and provide water sampling and testing. CAS to provide one day of hydrostatic testing support upon one week notice. Once testing is complete owner is responsible for emptying and disposal of water (if required).
- All non-standard applications that do not include water or municipal waste water require submittal of water chemistry by owner at time of bid. CST and CAS are not responsible for undisclosed water chemistry and warranty may be voided.
- Warranty is standard 5 year on materials and installation for Glass Fused to Steel tanks with CST standard Cathodic Protection for storage of only municipal water or wastewater (copy of warranty can be provided on request). Tank and Cathodic Protection inspections at 1, 3 and 4 years are required (inspections cost are not included). Visual tank inspection and Cathodic Protection Inspection can be provided for an additional cost of \$800 each with two to three weeks' advanced notice. Water Chemistry data to be provided by owner.
- Warranty is standard 1 year on materials and workmanship for Temcor Domes.
- The prices quoted in this document are valid for 30 days from the date of this document for Carbon Steel Tanks and associated fittings. After these expiration dates, tank and associated fitting prices must be re-quoted. Delivery must be accepted within 120 days, unless delayed by CST Storage.
- Indemnification in contract documents to be based on proportionate fault.
- Insurance rates based on CAS standard insurance (a copy can be provided upon request) with no OCIP, Builders Risk or other unusual insurance requirements.
- Verification of Funds and Pre-Lien information will be required prior to mobilization.
- This proposal is based on the stated parameters as listed only. If any changes are made to these parameters, the proposal is subject to change.

- This proposal (or its entire specifications, terms, and conditions) will be made part of any subsequent contract. California Aquastore will be the contracting entity for this contract and please use CAS for any subcontractor listings and contract documents.

Foundation Information:

Concrete Foundation is to be provided by others. California Aquastore to provide and install Mid Starter Ring after the rebar installation and before the concrete slab pour. Typical foundation designs are assumed to be for a standard strip footing foundation.

Exclusions

- Bonding but can be provided for 2.5% Extra.
- Separate Mobilizations for multiple tank projects.
- Concrete Foundations.
- Permits & Fees.
- Tank Unloading, Site Sanitary, Dumpster, restricted access, and remote laydown area.
- Exterior Piping, Valves and Fittings – Nozzle installation is to the first outer flange connection from tank wall. All flanges are with no hillside angle unless noted separately.
- Interior Piping and Fittings.
- Level Control Instrumentation or Transmitters.
- Obstruction Lighting or Beacon Equipment.
- Mechanical or electrical systems.
- Survey & Geotechnical Testing.
- Sub grade drains or piping.
- SWPP and erosion control plans, installation, monitoring or maintenance.
- Tank Insulation.
- Interior Ladders, Perimeter Railings on Roof, or Platforms except as listed.
- Mixers and accessories.
- Tank filling, disinfection, sampling, testing, and disposal of water (if required)
- Any items not specifically listed in this quote.

Should you have any questions or would like to meet to discuss this proposal, please contact me at (925) 667-1039.

Sincerely,

CALIFORNIA AQUASTORE



Eric Harper

e.harper@californiaaquastore.com

Acceptance of Proposal: The above prices and Scope of Work are satisfactory and are hereby accepted. You are authorized to do the work as specified. Payment will be made as outlined above.



Authorized Signature _____ Dated _____



City of Ft. Bragg 1.5 Million Gallon Tank Proposal

Wylatti Resource
Attn: Christi

December 1, 2017

Subject: Proposal #1708018–City of Fort Bragg Water Storage Tank
1,691,288 Useable Gallons Glass Fused to Steel Water Storage Tank

Dear Christi;

California Aquastore (CAS) is pleased to respectfully submit this Scope of Work letter for the installation of One (1) Glass Fused to Steel Bolted Storage Tank for the City of Fort Bragg Tank Project. This tank has been designed based on the preliminary design information provided by the City of Fort Bragg and the Tank Manufacturer. Final tank design and price impacts will be completed based on final system design, detailed chemical and physical data on the tank contents, and a site specific geotechnical report.

Scope of Work

- Provide Standard Engineered Drawings from the Tank Manufacturer CST, stamped by a California Registered Professional Civil Engineer for the foundation and tank designs.
- Furnish (US Manufactured) and install steel bolted storage tanks; tank structures and appurtenances as listed.
- The price includes all required labor (Prevailing Wage, non-union), materials, taxes and equipment.

Tank Proposal

The proposed installed cost for the design, procurement and installation of the above tanks is:

Ft. Bragg Water Tank – One (1) 84' x 45' – 60" Freeboard (1,691,288 Useable Gallons) \$ 861,650.00

California Aquastore will furnish all labor, materials, equipment and incidentals required to design, fabricate and install the above referenced factory coated bolted steel storage tank(s), and tank appurtenances as shown in this scope of work. The steel tank will be installed on the concrete foundation designed by the steel tank manufacturer. The design, materials, fabrication and methods of construction shall conform to the requirements of the AWWA- D103-09 for Factory Coated Bolted Steel Tanks.

PO Box 551131, South Lake Tahoe, CA 96155
Phone (925) 667-1039
License Number: #1013296 A
DIR Registration #1000038543

City of Ft Bragg Water Storage Tank – (84' X 45')

1. **Installation of One (1) Glass Fused to Steel Bolted Storage Tank of approximately 1,691,288 useable gallons with a diameter of 83.92 ft. and height of 44.99 ft. with 59.88" of estimated Freeboard (Does not meet AWWA recommendation/requirement for Sloshing Wave Height).**
2. **Tank Design**
 - a. Tank to Store: Potable Water
 - b. Specific Gravity: 1.0
 - c. pH: 6 to 8 @ ambient temperature
 - d. Tank Designed in Accordance with: AWWA
 - e. Seismic Design: IBC 2012/2015
 - f. Zip Code: 95437
 - g. Seismic:
 - i. Ss: 1.5
 - ii. S1: 0.78
 - iii. Seismic Site Class: C
 - iv. Seismic Importance Factor: 1.5
 - v. TL: 12
 - h. Wind Speed: 120 mph
 - i. Exposure Category: C
 - j. Risk Category: 4
 - k. Wind Importance Factor: 0
 - l. Snow Load: 30 PSF
 - m. Operating Pressure: 0-inch Water Column Pressure, 0-inch Vacuum
3. **Mid Starter Ring Embedded in Concrete Foundation Constructed by Others.**
4. **Exterior Tank Color: Cobalt Blue**
5. **Tank Accessories:**
 - a. 1 – 30" Shell Manway (Galvanized)
 - b. 1 – Aluminum Ladder with Galvanized Cage and Bracket Assembly, Extension to Grade, Lockable Device, and Standard Manway Observation Platform.
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CALIFORNIA AQUASTORE



Eric Harper

e.harper@californiaaquastore.com

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Authorized Signature _____ Dated _____