

# TANCO

ENGINEERING, INC.

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February 11<sup>th</sup>, 2021

Marco Carani  
City of Johnstown  
Johnstown, CO

Dear Mr. Carani,

In response to your request, TANCO is pleased to submit this LUMP SUM price for various repair options on your existing tank (50' diameter x 52.5' tall) at your Johnstown, CO facility. Please reference this proposal in any resulting contract or purchase order.

## Price

TANCO's Lump Sum price to provide all materials, fabrication, engineering, field labor, supervision, tools, supplies and equipment required to execute the scope of work is broken out below:

<b>Option 1</b> (Replace Damaged Sections of Rafters)	\$77,000
<b>Option 2</b> (Replace Cone Roof Plate and Rafters)	\$120,000
<b>Option 3</b> (Replace Existing Cone Roof with Umbrella Roof)	\$129,000
<b>Option 4</b> (Replace Existing Cone Roof with Aluminum Geodome Roof)	\$185,000
<b>Coatings Cost for Option 1 Repairs</b>	<b>\$58,000</b>
<b>Coatings Cost for Option 2 Repairs</b>	<b>\$88,000</b>
<b>Coatings Cost for Option 3 Repairs</b>	<b>\$83,000</b>

## Schedule

We estimate that completion of your tank work will take 2 weeks with a 6 person crew working a 5-10's schedule for Option 1. We estimate that completion of your tank work will take 3-4 weeks with a 6 person crew working a 5-10's schedule for Option 2. We estimate that completion of your tank work will take 4-5 weeks with a 6 person crew working a 5-10's schedule for Option 3. Our planned working time is Monday- Friday from 6:00 a.m. – 5:00 p.m. **We can arrive onsite as soon as a PO is received for repair options 1-3. There is an 8 week lead time for the procurement of the aluminum geodome.**

See below the Clarifying Notes, Assumptions, and Exclusions form, as it is an integral part of our proposal.

Please feel free to contact me at (970) 776-4211 if you have any questions or need more information.

Regards,

Keegan Maloney  
Project Manager

## **TANCO'S CLARIFYING NOTES, ASSUMPTIONS AND EXCLUSIONS**

1. This proposal is firm for acceptance for 30 days. **Note: Material Costs Subject to Escalation Due to Import Tarrif Implementation by the Government. Material Costs are Price in Effect at Time of Shipment from Material Vendor.**
2. The schedule in this proposal is based on our current workload and is contingent upon receipt of materials as committed to us. Our labor forces and equipment are subject to prior sale.
3. This proposal is based on one move in; one move out for all contractors and subs. Any additional mobilization or shutdown time due to customer will be billed as an extra.
4. Any period of delay due to causes beyond the reasonable control of TANCO will be added to the time for completion of this work.
5. In the event that our work should be stopped periodically for reasons beyond our control, our average cost to shutdown a crew is \$ 1,000 per hour. If we could work part of the day and/or could make up some hours by working late or on Saturday, these costs could be reduced or eliminated.
6. Local building permits or special licenses required for the construction of this tank shall be obtained by others. Costs to provide any extra information (beyond standard submittals) for permitting purposes would be added to our contract price. If "hot work" or other special site permits are required, they must be issued prior to the beginning of a day's work period to avoid delays.

### **Clarifications**

1. We assume that access to the tank site and a suitable work area around the tank will be provided. We also assume that the site is in a well-drained area and that soil conditions will allow our trucks and equipment to move around the area under their own power. If required, the work and storage areas will be kept free of excessive dust, ice, mud, and/or water by others.
2. Purchaser shall provide clear and open space adjacent to the construction site adequate for receiving and storing materials and construction equipment. As a safety precaution, our field construction forces do not operate hoisting equipment or install rigging within 15 feet of live 220 volt electric power lines (larger clear distances are required for lines of higher voltage). If such are present at the time of construction, the cost of moving them or otherwise making them safe will be for the Purchaser's account.
3. The tank is to be cleaned, isolated, and gas freed by others. TANCO is to be notified of any conditions that may present a danger to our crew.
4. We have assumed that once the tank has been cleaned, gas-freed and isolated, any special confined/enclosed spaced requirements will be unnecessary. We would continue to monitor the air both inside and outside of the tank and provide a firewatch per the following clarifying note. Entry/hot work permits also will be obtained as needed and fire extinguishers will be on hand. However, our pricing does not include such items as fresh air gear, air educators, lifelines, special clothing or PPE, warning horns, explosion-proof lights or standby rescue crews.
5. Our proposal does not include a non-working safety watch, fire watch, hole watch, or confined space rescue.
6. Our proposal does not include seal welding of any underside laps of the umbrella roof, cone roof, or existing roof. We have not included any seal welding of roof rafters to roof plate.
7. Our proposal is based on using A36 steel from API Group I.

8. Our proposal is based on using 3/16" thick roof plate.
9. Pricing is based on reusing existing roof appurtenances.
10. Our price does not include post weld heat treatment or stress relieving procedures.
11. Our proposal is based on us being able to reuse the existing center column and top dollar plate.
12. Coating pricing is based on disinfecting only areas where new coating has been applied for each repair option.
13. Our proposal does not include any coating repairs for installation of the aluminum geodome option.
14. Our proposal is based on us being able to reuse the existing top angle and rafter clips/chairs. It has been assumed that the existing rafter chairs have two bolt holes each to bolt the new rafters to and same for the center column dollar plate.
15. Our proposal is based on us being able to safely walk on the existing cone roof to perform our scope of work.
16. Our price does not include piping or valves beyond the exterior flanges on the tank nozzles. New gaskets and bolts have not been included.
17. We plan to use our current weld procedures and welder qualifications. TANCO's standard welding procedures call for all down flat welds to be single pass with E7024 rod. All welds on the tank shell will be made with E6010.
18. We have assumed that there are no special or toxic coatings or linings on the tank interior.
19. Our proposal does not include any coating work.
20. Our pricing for tank coatings only includes costs for the actual tank repairs and does not include costs for coating damages on other surfaces from performing the repair work as we do not know what the extent of the coating repairs is until we complete mechanical repairs.
21. We have assumed that the existing tank materials are weldable. Any cost to assure weldability would be added to our price.
22. Our proposal includes all required AWWA D100 required NDE.
23. TANCO's bid does not include a hydrotest.
24. We have relied on the drawings and specifications provided in developing our price. Any revisions or corrections to the information provided will be evaluated for impact to our quoted price and schedule.
25. Our price is based on receiving the entire project.
26. Taxes have not been included in our price. TANCO will collect taxes at the end of the job, if appropriate.
27. Below are the clarifications, exclusions, and assumptions for the aluminum geodome:

## 1.2 Design Standards and Certifications

- API 650.
- ASCE 7-16.
- EN 10204 3.1 Metallic products. Types of Inspection Documents.
- EN 485-2. Aluminum and aluminum alloy. Mechanical properties.
- EN 515. Aluminum and Aluminum alloys; wrought products; temper designations.
- EN 573-3. Aluminum and aluminum alloys. chemical composition of wrought products.
- EN 755-9. Aluminum and aluminum alloys. Extruded rod/bar, tube and profiles. Profiles and tolerances.
- ISO 9001.
- CE Marking.

## 1.3 Design Loads and Criteria

Item	LL(kN/m <sup>2</sup> )	Wind (mph)	Seismic	Suspended IFR LL(kN/m <sup>2</sup> )	Snow Load (kN/m <sup>2</sup> )	Suspended DL(kN/m <sup>2</sup> )	Support Type	P/V (" WC)
1	0.72	120	Ss:17% S1:5.6%	0.00	1.68	0.00	Fixed	Atm

Wind Load: Exposure category C

Snow Load: ground snow (Ct=1.2 & Ce=1.0)

Seismic: T:4 ; Site Class D

External tension ring required (excluded from price), estimated required S275 200x10mm.

## 1.4 Materials and alloys

- Struts an Batten Bars: 6082-T6 and 6005-T6.
- Gusset Plates: 6082-T651.
- Triangular Panels and Flashing: 3003-H16.
- Structure Connections: DIN933 SS316 bolt & nuts.
- Batten Bar Gaskets: Silicone.
- Sealant: Silicone.
- Material Finish: Mill.

Thank you for the opportunity to submit this proposal. The above clarifications and comments are intended to communicate the basis of our proposal. TANCO will gladly negotiate changes to best suit your requirements. If there are any questions, or if we can be of further service, please contact us at your earliest convenience. We look forward to working with you in the near future.