



# CITY OF CALEXICO

608 Heber Ave.  
Calexico, CA 92231-2840  
Tel: 760.768.2160  
Fax: 760.768.0992  
www.calexico.ca.gov

## Request for Proposals for Structural Engineering Services for the 352 First Street Water Tower Project Addendum No. 1 September 16, 2020

This Addendum forms a part of the Contract Documents for the above identified project and modifies the original request for proposal (RFP) as noted below. Portions of the contract not specifically mentioned in this Addendum, remain in force. All subconsultants affected shall be fully advised of these changes, deletions, and additions.

### PROPOSAL SUBMISSION REQUIREMENTS

This Addendum shall indicate the extension of the "Proposal Due Date" date for the above-mentioned projects from **Friday, September 18, 2020 to Thursday, September 24, 2020 at 4:00p.m.**

### RESPONSE TO QUESTION(S):

1. What is the budget for the Detailed Structural Report and, if necessary, retrofit of this project?

No budget is set for the detailed structural report. Section 8.1.5 of the RFP outlines the fee proposal requirements.

2. Regarding the schedule, it is 45 day for the Structural Report and, if necessary, another 45 for retrofit design? Or 90 for the retrofit design?

Section 4 of the RFP lays out the City's preferred schedule for tasks. The City hopes to have the initial structural assessment and report completed within 45 days. If necessary and requested by the City, the selected proposer would have another 45 days to complete the plans and specifications for retrofitting, if needed.

3. There is no geotechnical soils report or as-built drawings for the tower? Just want to confirm.

That is correct.

4. Will the consultant that conducted the analysis in 2005 and 2019 allowed to bid on the project?

The consultant that conducted the analysis in 2005 and 2019 prepared only a limited assessment, and the information from that assessment is provided with the RFP. The consultant will be allowed to submit a proposal on the project. Please note that this RFP is open to all qualified consultants.

5. I understand that the tower was originally constructed in 1949. Do you have as-built drawings of the tower that we can use to figure out the extent of as-built documentation that we would need to do in order to assess the tower?



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The City does not have as-built drawings of the tower at this time.

6. Will the previous consultant's STAAD model and calculations be made available to us?

Please visit the following website for a copy of Malouf Engineering International Inc. Structural Analysis report dated July 1, 2005:

<https://www.calexico.ca.gov/index.asp?SEC=D59DFDD0-BC66-4296-8CBD-7180020D22DE&DE=D19FD00E-99FF-4D36-AD13-779A89177543>

7. The IEBC allows the structure to be evaluated based on the code it was designed for. I note that the calculations were conducted based on the IBC 2015 and ASCE 7-10. Current code in effect in California is CBC 2019 that references ASCE 7-16. Does the City want the consultants to conduct the analysis again per the new code or the original code it was designed for UBC 1946.

Proposed consultant must provide their recommendation in their proposal. The City desires to ensure compliance with current applicable codes for non-water storage vertical infrastructure. The water tower is not used for water storage.

8. I note in the calculations that the previous consultant has not used any combination that considers the seismic loads. One of the recommendations is to add more weight in order to reduce the uplift due to wind loads. Has the consultant considered the effect of adding weight at the top of the structure on the seismic forces. Typically we see seismic design govern for most of our structures in California.

Proposed consultant must provide their recommendation in their proposal.

9. The report indicated that there were no as-built drawings of the foundations. Do you know if the foundations were constructed as a mat/spread footing or is the tower supported on piles? Will be allowed to do excavations to access the foundations to determine the as-built conditions using non-destructive methods?

Proposed consultant will be allowed to conduct all necessary excavation and/or testing for the foundation to determine the as-built conditions using non-destructive method and obtaining the necessary permits.

10. I see the bracing of the tower as pre-fabricated steel rods with turnbuckles. Do we have the strength/capacity of the existing rods (the existing drawings should have this information)?

The City does not have any existing drawings of the tower at this time.

11. What is the grade of steel used for the structural members. The documents note it was not available. I did not find the grade of steel used in the calculations in Appendix. Would it be possible for us to remove some small coupons of steel from non-critical members for strength testing?

Proposed consultant will be allowed to remove some small coupons of steel from non-critical member for strength test, if necessary.



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12. The DCR for a number of the steel members was noted to be above 1.0. Do these members need to be reinforced? There is no discussion in the report findings about this.

Proposed consultant must provide their recommendation in their proposal.

13. I am reviewing the findings and note that the consultant has indicated that the uplift loads are significantly higher. However, there is no reference to the design uplift forces and the assumed anchorage design approaches. Based on our understanding the anchors have had a lot of research that has been done in the last 10 years that has significantly reduced the strength. I would assume that the tower was originally designed to function when it was empty. Were the anchors checked per the new ACI 318 procedure or the anchorage design procedure when the structure was constructed?

The anchors were not checked per the new ACI 318 procedures. Proposed consultant must provide recommendation in their proposal.

14. I note that some of the members in the tower are showing signs of rust and corrosion. Is it the intent of the city to clean and coat the steel members to increase the service life of the tower?

It is the intent of the City to increase the service life of the tower.

This Addendum was sent via email. Please acknowledge receipt of this Addendum by signing and returning a faxed copy to 760/768-0992. Also include a copy of the Addendum in your proposal package.

Sincerely,

Lilliana Falomir  
Public Works Manager – Administrative

### ACCEPTANCE OF ADDENDUM

Receipt of the above-mentioned ADDENDUM No. 1, is hereby acknowledged by:

\_\_\_\_\_  
Company Name

This the \_\_\_\_\_ day of \_\_\_\_\_, 2020

By: \_\_\_\_\_

Signature: \_\_\_\_\_ Title: \_\_\_\_\_