

ITB # 201901 – Strothers Lane Tank

Questions & Answers

- Q1. When will the demo occur – before or after the new?
A1. Demolition of the existing tank must occur before construction of the new because they are in the same general location.
- Q2. What is the anticipated timeline for the demo - spring/summer/fall 2019/2020?
A2. Selected contractor will need to provide a detailed schedule prior to starting construction.
- Q3. Is there a plan holders list available? Could you share it?
A3. The sign-in sheet from the mandatory pre-bid meeting will be shared with all attendees and posted on the City's purchasing website.
- Q4. Is there an inspection report available for the tank? Can you share it?
A4. Yes – a copy will be posted on the purchasing website
- Q5. Is there a clean out report? How much sediment was left in the tank after it was last cleaned out?
A5. There was no noticeable sediment in the tank at the time of inspection
- Q6. Will foundation removal be required? If so, how deep?
A6. Yes. Refer to notes 4 & 5 on Sheet C1.
- Q7. Will this be a prevailing wage project?
A7. No.
- Q8. Will the fence removal happen prior to our arrival or will that need to happen at time of demo?
A8. This work will need to be coordinated with the General Contractor.
- Q9. Will the fence need to be reinstalled?
A9. Yes, see drawings for location.
- Q10. Where will the new concrete tank be constructed in relation to the existing tank?
A10. Roughly in the same location.
- Q11. What is the local power company? Do you have a number for them?
A11. Shenandoah Valley Electric Cooperative – 800-234-7832

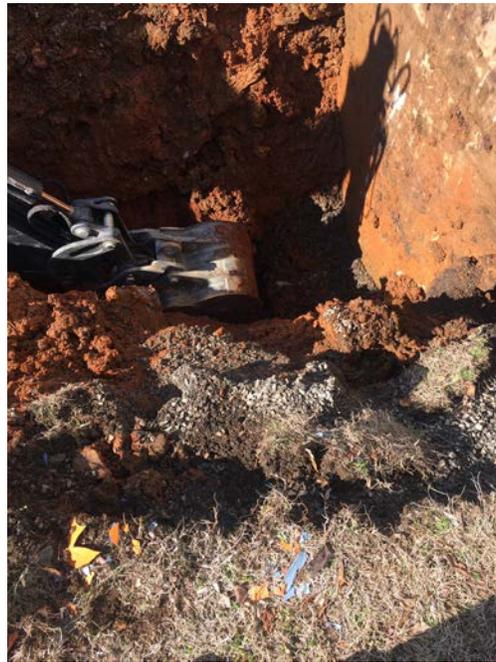
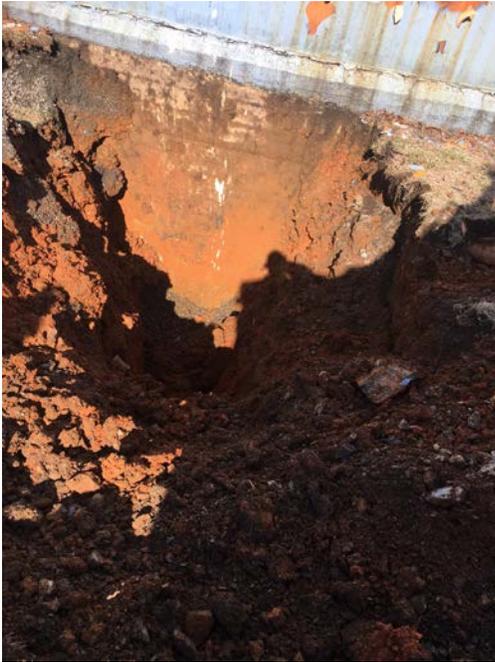
- Q12. If trees are needed to be cleared surrounding the tank, will we be allowed to do that? Will they be moved prior to our arrival due to the construction of the new tank?
- A12. Any clearing required will be the responsibility of the contractor.
- Q13. Is there lead-based paint on the tank?
- A13. See the tank inspection report.
- Q14. Drawing C4, Note 1 indicates the precast building to be 20'x20'x12'. The East Elevation on the same drawing shows it as only 9' high. Specification 03452 calls it out to be 12'x20'x8'. Please clarify building size.
- A14. 20'x20'x12' – as shown on the drawings. The specification will be revised in Addendum #1.
- Q15. Spec 02510 indicates requirements for aggregate stabilized subgrade “where shown on drawings”. While subgrade is shown, it is not called out to be aggregate stabilized. Please clarify if aggregate stabilization is required.
- A15. Refer to Note 5 on Sheet C1.
- Q16. Do you have any “as-built” information or old shop drawings for the existing tank and foundation?
- A16. No.
- Q17. Drawing C1, Note 3 calls for 6” topsoil. Specification 02910-3.02A calls for 4” topsoil. Please clarify.
- A17. 6” topsoil required as modified by Addendum #1.
- Q18. Can you provide a scope of work included in the allowance for instrumentation? Typically, the I & C vendor would provide the ultrasonic level sensors (spec 16940) and chlorine analyzers (spec 16941). Please clarify.
- A18. The allowance only includes programming and is included as information available to bidders.
- Q19. The Owner is providing water for flushing and testing. Will the Owner also provide water for the shotcrete or will the Contractor need to have a meter installed
- A19. Yes – City will provide the water.
- Q20. Is the elevation for the new tank slab the same as for the existing?
- A20. No. Existing tank ring wall elevation is 824.8 +/-
- Q21. Is the property next to the site (where tanks currently sit) available for Contractor office trailers?
- A21. The only property available is the City’s parcel where the tank sits. The Contractor would need to make arrangements with any surrounding property owners, should they desire to use adjacent property for storage, staging and office trailers.

- Q22. Drawing C2 shows 18" RCP from the DI-1 to MH-1. The 18" Drain Profile on C3 shows this same line as 18" corrugated HDPE. Please clarify.
A22. The pipe should be RCP. Drawing will be revised in Addendum #1.
- Q23. Is there a geotechnical report available for this project?
A23. A geotech report was prepared in 2018 and is available for download on the City's purchasing website.
- Q24. Is the E&S review completed by the City or DEQ?
A24. By the City.
- Q25. When the tank is tested where will the test water go?
A25. Water can be dechlorinated and discharged to the storm drain.
- Q26. Is power available out at the site?
A26. Existing power is available and will need to be run at the contractor's cost.
- Q27. It appears that blasting may be required – will that be an issue?
A27. Contractor will need to obtain blasting permit from the Fire Marshal and comply with any requirements of that permit.
- Q28. Where is the water available?
A28. There is currently a hydrant within 150 feet. Will need to provide a backflow preventer or air gap when using the hydrant.
- Q29. Are there plans to mount any cell towers on top of this tank?
A29. Not at this time.
- Q30. Any County business license requirements?
A30. No. The project is all within City limits.
- Q31. Is the existing tank elevation shown on the plans?
A31. Existing tank ring wall elevation is 824.8 +/-
- Q32. Will the City provide geotech services to verify tank base is good?
A32. Yes – City will provide necessary testing services.
- Q33. What about concrete and shotcrete testing?
A33. Yes, City will take care of that too.
- Q34. Would you reconsider going to a standard proctor test requirement for the stone base?
98% is tough to achieve.
A34. Requirements will be modified by Addendum 1.

- Q35. Are there photos available of the interior of the tank?
A35. Yes – in the tank inspection report.
- Q36. Is the tank bottom concrete or steel?
A36. Bottom of the tank is steel.
- Q37. It is believed that the existing steel tank is founded on oil-impregnated sand. I assume this will be deemed unsuitable and need to be disposed of offsite. The tipping fees for this soil will be considerable. Can you quantify the amount to assume vs the amount of clean soil in the 2,500 CY bid item? Alternatively, can you establish a separate unit price for oil-impregnated unsuitable soil?
A37. Bid Item will be added by Addendum 1.
- Q38. Drawing E-3, Note 1 references a Lighting Protection Spec section 16670 for structure protection. However, within the Project Manual, there is no Spec Section 16670. Please advise.
A38. Section will be added by Addendum 1.
- Q39. Drawing E-3, Enlarged Site Plan; there is a lighting fixture LL1 to be mounted adjacent to the handrail on the top of the tank near the tank mixer, in the Lighting Fixture Schedule (E-5) it is noted these are to be mounted on 14' round tapered base mounted pole. Please provide more structure mounting detail for connection of this to the roof.
A39. Light fixture will be changed by Addendum 1 to a smaller fixture on an 8-foot pole. The mount will need to be coordinated with and designed by the tank manufacturer.
- Q40. Drawing E-3, Site Plan, there is a pole fixture type LL1 to be installed adjacent to the gate entrance. Please provide a structural detail for the pole base.
A40. Detail will be added by Addendum 1.
- Q41. Drawing E5, Light Fixture Schedule; please provide a referencing catalog number for primary fixture manufacture for cross referencing.
A41. Light fixture schedule will be modified by Addendum 1, however Manufacturer and model numbers are indicated in the far right column.
- Q42. Would like to know an actual number of how much space there is around the back side of the existing tank? Is it 6 feet, 8 feet or 10 feet?
A42. Clearance varies between 5 and 10-feet +/-
- Q43. Can the City provide the engineer's estimate for the project?
A43. The City does not provide construction estimates for projects that are actively being bid.

Q44. Is there any information regarding the thickness of the base slab the existing tank is on?
A44. It is not known if there is a base slab below the entire tank. There is a concrete ring wall around the entire circumference, which is approximately 36 inches wide and approximately 9 feet tall.

Q45. How deep is the tank?
A45. Test digging shows that there is an approximately 3' wide ring wall that is approximately 9 feet deep. Pictures taken during excavation are provided.



Q46. Electric Unit Heaters/Fans/Controls – Electrical Drawing E4 indicates these items both on the BOTTOM PLAN and FAN CONTROL SCHEMATIC. Mechanical Drawing M4 indicates the outline only of the Unit Heaters on the BOTTOM PLAN with no specific notation as to what they represent. The Mechanical Drawings do not include an Equipment Schedule for the Heaters/Fans, nor are there any related written Division 15 specification sections. Please review and confirm who is to provide these items and if so, what specifically is to be provided. Are these intended to be provided by the building manufacturer (which is where they are specified)?
A46. Electric Unit heaters are specified in Section 03452, who provides them is up to the Contractor.

- Q47. Please review and identify the bold underground line shown on Electrical Drawing E3 on both the SITE PLAN and the ENLARGED SITE PLAN extending from the south wall of the Valve Building due south and then due east to a termination point along the north side of Strothers Lane, said line unidentified on this drawing. This appears to be the same underground line shown on Civil Drawing C2 Civil Site Plan and noted as a 12" DI Water Line.
- A47. The line is a 12" DI water Line
- Q48. Drawing E5 Conduit Schedule – Conduit P-008 on this schedule is indicated to feed Electric Unit Heater EUH-2 from Panel LP-1 via a disconnect switch. This appears to be a duplication of Conduit P-003 on this same schedule. Please review and address the duplication/discrepancy.
- A48. Conduit P-008 deleted by Addendum 1
- Q49. Lighting Contactor LC-1 - Drawing E4 Note 4 indicates all exterior lights shall be controlled by this Lighting Contactor. No location for this controller is provided on Electrical Drawing E4 BOTTOM PLAN. Is this the box shown on Electrical Drawing E4 BOTTOM PLAN located along the south interior wall of the Valve Building at the southwest corner? Please provide further details/information regarding what is to be provided.
- A49. Note 4 Deleted by Addendum 1
- Q50. Mixer Control Panel - Electrical Drawing E4 BOTTOM PLAN indicates this is to be installed along the west interior wall of the Valve Building, this is also shown on Drawing E2 MIXER POWER ONE-LINE DIAGRAM with an incomplete note beginning with 'Mounted In'. Please review and confirm who is to provide this panel. If Division 16 responsibility, please confirm specific details as to what is required.
- A50. See Addendum 1. Panel is provided by the mixer manufacturer as specified in Section 11730
- Q51. Lightning Protection – Electrical Drawings E2 Note 8 and E3 Note 1 indicate to provide Lightning Protection per Specification Section 16670. Note 1 on Electrical Drawing E3 specifically points to the Lightning Protection/Grounding Counterpoise shown around the perimeter of the Water Tank, confirming this structure is to be protected. Electrical Drawing E4 BOTTOM PLAN indicates a Grounding Counterpoise shown around the perimeter of the Valve Building. No Specification Section 16670 for Lightning Protection has been provided. Please provide the missing Specification Section and confirm if the Valve Building is also to be protected.
- A51. A connection to LP-1 is shown on the Bottom Plan. See Addendum 1 for Specification

- Q52. Electrical Drawing E4 BOTTOM PLAN indicates a Grounding Counterpoise shown around the perimeter of the Valve Building, with no grounding connection to the Building interior (i.e., Electrical Panel, Ground Bar, etc.). Please review and confirm if a grounding connection to the Building interior is required and, if so, the specific details of this requirement.
- A52. A connection to LP-1 is shown on the Bottom Plan
- Q53. Please provide Section 15390 referenced from 15100 1.01B or confirm it is not required.
- A53. Section 15390 is not included or required. See Addendum 1
- Q54. Please provide Division 17 specifications referenced in 15100 1.01C or confirm they are not required.
- A54. There are no Division 17 Specifications. See Addendum 1
- Q55. Please provide dimension schedule to accompany detail 1509405R.
- A55. Schedule included in Addendum 1
- Q56. Precast building – please clarify if the insulation requires fiberglass facing on both sides, or just the interior face.
- A56. Interior face only
- Q57. Confirm EUH – 2 is identical to EUH – 1 included in the Precast Building specification – only one is scheduled, two required per drawings.
- A57. EUH 1&2 are identical 5 Kw heaters, See Addendum1
- Q58. Prestressed Concrete Tank specification indicates exterior painting if applicable to be specified in 09900. Please confirm exterior of tank is not being painted / stained or sealed.
- A58. See Section 13206 Para 2.09 B. “Paint all exterior surfaces with 2 coats (4-8 mils/coat) of Tnemec Series 156 Enviro-Crete.” See additional Addendum requirements
- Q59. The existing tank coating system has failed to the point it is falling from the tank and is scattered about the site in various sizes from fragments to large pieces. Tank removal operations will result in significant additional quantities of the coating landing on the ground and potentially being mixed with the soil. Any site activity will exacerbate the existing conditions. Please advise if the existing paint fragments on the ground present an environmental hazard or risk requiring remedial action and if so, how should we handle this in bidding the project.
- A59. See Specification Section 02052 added by Addendum 1
- Q60. Paragraph 2.01H.1. indicates the Unit Heaters are 15KW @ 240V/1P, this would require about an 80A circuit. Drawing E5 Panel LP-1 Schedule indicates each heater is to be fed by a 30A/240V/1P circuit, with a load of 2500W (2.5KW).
- A60. EUH 1&2 are identical 5 Kw heaters, See Addendum1

- Q61. Please review and confirm who is to furnish the SCADA Antenna noted on Drawing E3 ENLARGED SITE PLAN and the associated Mast Support Bracket indicated per Note 2 on this drawing. If Division 16 responsibility, please confirm what is specifically required. Please also confirm elevation/mounting height for this Antenna.
- A61. Antenna will be provided by Owner and installed by contractor as with the LTE gateway. Contractor shall coordinate exact location with Owner and Tank Manufacturer during shop drawing process
- Q62. Drawing E4 Detail D Conduit Rack indicates an Instrumentation Raceway I-003 and Detail A indicates an Instrumentation Raceway I-004, neither of which are shown on Drawing E5 Conduit Schedule. These are also noted on Drawing E2 CONTROL ONE-LINE DIAGRAM feeding the LE Tank Level Device and Security Camera. Drawing E5 ULTRASONIC LEVEL TRANSDUCER DETAIL 1774001R appears to indicate that the cable feeding the Level Transducer is Vendor-Supplied, meaning by the Vendor for the Level Transducer (equivalent to Instrumentation Raceway I-003). Please review and confirm the requirements for these Instrumentation Raceways.
- A62. The instrument manufacture or “vendor” supplies the cable required to connect the transducer and transmitter wherever they are located. It is responsibility of the Contractor to coordinate and order the correct length cable, as it cannot be spliced. See conduit schedule additions in Addendum 1
- Q63. Please provide base/support details for the (2) Type LL1 pole lights shown on Drawing E3 SITE PLAN and ENLARGED SITE PLAN. The ground-mounted light per the SITE PLAN would typically require a poured-in-place concrete base, the light at the top of the tank per the ENLARGED SITE PLAN could either be attached to the ladder or the Tank itself. Please review and confirm what is required for each location.
- A63. See Responses to Q39 & 40
- Q64. Because the new tank sits lower than the existing tank, there will be excess soil to be hauled off and disposed. Some or all of this soil is likely to be oil impregnated soil. Will all of this material be paid as unsuitable under the unit price, or is there some amount that must be included in our lump sum?
- A64. See Response to Q37 as well as Addendum 1
- Q65. The tank will require a gravel base for the slab. Will this be paid under the unit price for “backfill unsuitable” or must this be carried in the lump sum?
- A65. See Note 5 on Sheet C1 as well as Addendum 1
- Q66. Where and how many employees will be allowed to park their personal vehicles?
- A66. It is the Contractor’s responsibility to secure a parking location for their employees if they cannot be accommodated on the City’s parcel that is occupied by the existing tank.

- Q67. How is the City of Winchester going to verify the true past performance of bidders?
A67. The City will use the references provided on the Contractor Qualification data sheet to verify work experience and performed, when necessary.
- Q68. What is the approximate overhead electrical clearance?
A68. Contractor will need to determine this in the field.
- Q69. Please confirm if the bollards are Class II or Class III.
A69. Type III as shown on C7.
- Q70. Please provide the B-M3 detail (18" Overflow).
A70. Section B is provided on Sheet M3.
- Q71. Will Winchester require the 12" DI to be link sealed where it enters the drop inlet? Or is parging sufficient?
A71. Annular space shall be sealed with non-shrink grout.
- Q72. Contractor Qualification Data Sheet – 1.4.2.2 - Please confirm the contractor may utilize the past performance of subcontractors to meet this requirement, specifically the water tank subcontractor.
A72. Past performance will be evaluated for the lowest qualified bidder.
- Q73. Please confirm the Notice to Proceed will be issued only upon the approval of major submittals.
A73. Not necessarily. Submittals may be submitted before the Notice to Proceed is issued, but issuance of NTP is not contingent on submission or approval of any submittals, only signing of the Contract.
- Q74. Please confirm the tax exemption certificate is transferrable to the contractor for performance of this project.
A74. No. The City's tax-exempt status does not apply to materials purchased by the contractor.
- Q75. Please confirm the whole project site is to be fenced and illuminated.
A75. Please refer to the plans for these details.
- Q76. Would the owner insert a unit priced item for rock removal on the bid form for pricing of rock removal if found after the project commencement?
A76. Yes, see Addendum #3
- Q77. If blasting is required, will the 30 day notice to surrounding neighbors be an extension of time to the contract period?
A77. Not necessarily, time extension requests will be reviewed on a case by case basis.

Q78. Please confirm materials testing is to be provided and paid for by the contractor.

A78. Testing will be paid by the Owner.

Q79. Spec 13206 17 A references "the foundation mat for the prestressed concrete tank shall be designed by the prestressed concrete tank manufacturer." Is this a design-build requirement? Will engineer stamped drawings be required? Will the design include the concrete foundation in 17B?

A79. Engineered drawings are required for all components of the tank design.

Q80. Please confirm the referenced 5-year warranty requirement is to be a materials warranty from the manufacturer and a workmanship warranty from the installer and not by the GC.

A80. GC is required to coordinate with manufacturer/installer on warranty issues within the one-year correction period.

Q81. Please confirm the multiple millions of gallons for the tank are to be provided at the owner's cost.

A81. Confirmed.

Q82. Depending on the Notice to Proceed date, painting may be taking place during the winter months. Will an extension of time be granted if painting is to take place during cold weather?

A82. Not necessarily, time extension requests will be reviewed on a case by case basis.

Q83. Please confirm the oil impregnated sand is classified as contaminated materials.

A83. No testing has been completed.

Q84. Can the bid date be pushed back 7 calendar days?

A84. Yes, the bid date has been extended by 7 calendar days to Tuesday, March 26th at 3:00pm via Addendum #2.

Q85. The Geotechnical Report did not provide the subgrade modulus. Please provide.

A85. A revised Geotechnical Report will be provided.

Q86. Geotechnical Report, Page 5, Foundations, recommends that a maximum allowable bearing pressure of 3,000 psf be utilized for the design of foundations bearing on competent limestone bedrock. Based on the sidewall height of 53'-6" for the tank, a minimum bearing capacity of 3,400 psf is required. Please confirm that a minimum bearing capacity of 3,400 psf can be achieved.

A86. A revised Geotechnical Report will be provided.

Q87. Drawing Sheet M3, Section C, requires 304 stainless steel pipe support bracket at 10' oc, typ. Industry standards recommend using 316 stainless steel for the tank wall pipe support brackets. Please delete 304 and replace with 316.

A87. See Addendum #3.

Q88. Based on the sidewall height of the tank, Crom recommends providing an intermediate aluminum platform halfway up the exterior aluminum ladder along with cage and TS rail. Please confirm if an intermediate aluminum platform is desired.

A88. Yes, See Addendum #3.

Q89. Can the Top of Wall elevation, as shown on Drawing M2, be lowered to 874.50? Based on previous experience, this should provide sufficient freeboard to accommodate the flow rate.

A89. Yes, See Addendum #3.

Q90. Specification 16170 provides information about grounding and bonding. Specification 16111 provides information about conduit. Specification 16670 provides information about lightning protection systems. Bonding to any concrete encased tank steel is not recommended and shall not be allowed, per the tank manufacturer. All bonding shall be done by using air terminals on the top of the tank dome with PVC conduit adhered to the exterior tank wall. Electrical grounding to the reinforcing of a prestressed concrete tank is prohibited by AWWA D110-13 per Section 5.16. Items requiring grounding, such as lightning protection, are required to be a separate system with its own ground connections. Excerpts of the referenced sections are provided below.

- AWWA D110-13, Sec. 5.16 – Electrical grounding to non-prestressed reinforcing steel or prestressed reinforcement for any equipment or electrical service shall be strictly prohibited.
- AWWA D110-13, Sec. 5.17 – Lightning protection, if required, shall be a separate system with its own ground connections.

A90. See Addendum #3.

Q91. Is this project subject to AIS/Buy American provisions?

A91. No

Q92. Please confirm that no interior coatings are required for the tank.

A92. No Interior coatings are required.