



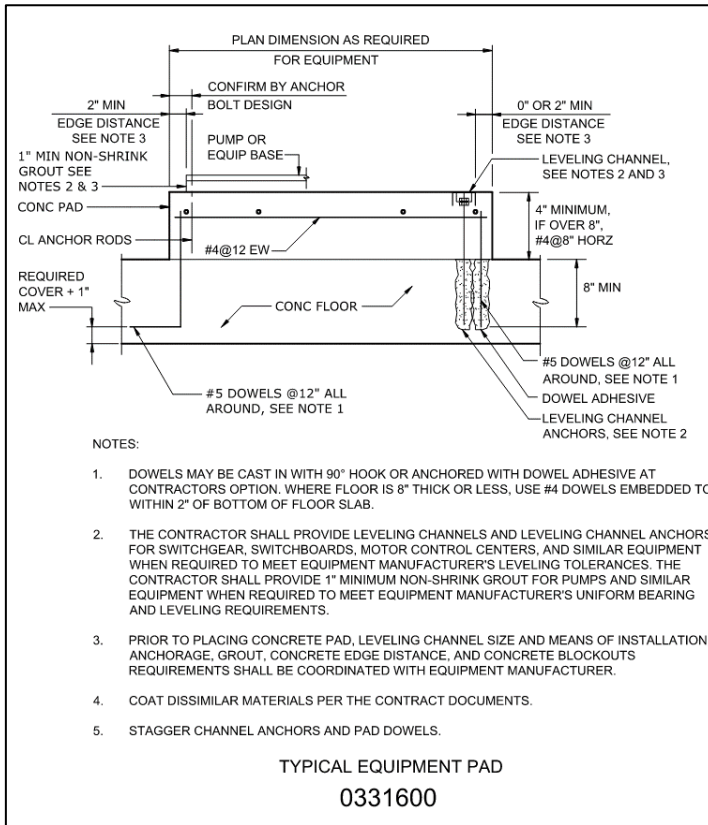
**IFB NO. 500630-FY22-18  
WATER FILTRATION PLANT (WFP)  
FILTERS 1 & 2 REHABILITATION PROJECT**

**ADDENDUM NO. 6**

**APRIL 5, 2022**

**ITEM NO. 1: CHANGES TO CONTRACT DRAWINGS**

1. There is no Sheet 28 (Sheet 28 is missing from Drawing G2). This sheet number was inadvertently skipped.
2. Make the following Sheet Number changes:
  - a. Drawing EE1 – Sheet 19.
  - b. Drawing EE2 – Sheet 20.
  - c. Drawing EE3 – Sheet 21.
  - d. Drawing EE4 – Sheet 22.
  - e. Drawing EE5 – Sheet 23.
  - f. Drawing EE6 – Sheet 24.
  - g. Drawing EE7 – Sheet 25.
  - h. Drawing EE8 – Sheet 26.
  - i. Drawing EE9 – Sheet 27.
  - j. Drawing I1 – Sheet 29.
  - k. Drawing I4 – Sheet 32.
3. Drawing E3 – **ADD** the following detail to this sheet:



## ITEM NO. 2: CHANGES TO CONTRACT SPECIFICATIONS

### 1. Specification Section 03732 – Concrete Repairs

#### 1.02 DELETE Item B – Section 01025 – Measurement and Payment

### 2. Specification Section 13201 – Filter Underdrain Rehabilitation

**1.03A. REPLACE** Paragraph 1.03.A with the following, *“Filter underdrain inspection and testing of the existing underdrains shall be conducted by F.B. Leopold Company. Alternate manufacturers for filter inspection and testing shall have a minimum of 5-years experience and shall provide references for 10 inspection/rehabilitation projects. Approval of alternate manufacturers for filter inspection and testing is subject to approval from the Town and the Engineer.”*

### 3. Specification Section 13201 – Filter Underdrain Rehabilitation

**1.05.B.A. REPLACE** paragraph 1.05.B.1 with the following, *“One trip of two (2) days at a minimum to supervise removal of the existing filter lateral underdrain system within each Filter Cell.”*

### 4. See attached updated Bid Form.

### 5. See attached updated Subcontractor Form.

### **ITEM NO. 3: RESPONSES TO QUESTIONS RECEIVED**

Interested bidders shall be mindful of the following responses to the questions received:

1. The liquidated damages for this project seem relatively high. Will the Town consider lowering?

**RESPONSE: Liquidated damages shall remain as stipulated in the Contract Documents.**

2. Were Sheets 19 & 29 of 34 intentionally left out of the Bid Document drawings?

**RESPONSE: Contents of the Contract Drawings are complete. There was a typo in the Sheet Number, but the Drawing Numbers are correct as shown on the Contract Drawings.**

3. Sheet 30 of 34 was noted for three different drawings in the Bid Documents – I1, I2, and I4. Please clarify.

**RESPONSE: Contents of the Contract Drawings are complete. There was a typo in the Sheet Number, but the Drawing Numbers are correct as shown on the Contract Drawings.**

4. Does the Owner take generator status or indemnify contractor for pre-existing hazardous materials?

**RESPONSE: The Town is the generator for any waste disposal. Contractor shall follow relevant manifest system to ensure proper disposal of waste.**

5. Is it the Owner's plan to issue a change order for additional work (i.e., repairs, etc.) needed as a result of the filter basin inspections?

**RESPONSE: See Changes to Contract Specifications section above. Bid Form has been updated to include unit prices for various repairs.**

6. Specification Section 03732; paragraph 1.02 B. references "Section 01025 – Measurement and Payment". We do not find Section 01025 in the Bid Documents.

**RESPONSE: See Changes to Contract Specifications section above. There is no Section 01025.**

7. Please clarify Spec Section 13200; paragraph 1.01 C. The scope of work is unclear with respect to identified cracks, crack repairs, and repair of the internal filter wall coating system.

**RESPONSE: The Scope of Work for Section 13200 is dependent upon the extent of repairs identified during construction. Inspections shall take place with representatives from the Town, Contractor, and Engineer to confirm necessary repair work.**

8. Specification Section 13200 calls for demolition of Monolithic Wheeler Bottom Underdrains. We anticipate this project going considerably over the budget due to current market conditions. If this should occur, we respectfully request that an alternate be considered to price the rehabilitation of Filters 1 & 2 without removing the underdrain.

**RESPONSE: The Town and Engineer conducted an evaluation of options available and due to hydraulic conditions, rehabilitation of the existing underdrains is not acceptable. Underdrains of Filters 1 and 2 shall be replaced as shown in the Contract Documents.**

9. Each filter is a double bay. Does the Town of Leesburg consider one (1) filter both bays? Please advise. Can each bay be backwashed separately?

**RESPONSE: One filter consists of two bays (referred to as "filter cell" in the Contract Documents). Each bay (or cell) could be backwashed separately. However, to backwash one bay would require that the entire filter (both bays) be out of service.**

10. Do Filters No. 1 & 2 need to be done before Filters 3 & 4?

**RESPONSE: The order in which filter work is completed can be modified given that only one filter can be taken out of service at a time. Construction Schedule shall be coordinated with the Town and Engineer at the beginning of the project.**

11. Section 13201 sole-sources and implies Leopold is the only entity qualified to inspect the existing underdrains. This is not accurate. Request the Town require a price from Leopold for the inspection and testing of the underdrain and an alternate price from a qualified filter sub-contractor who is truly independent subject to the Engineer's approval as a comparison.

**RESPONSE: See Changes to Contract Specifications section above.**

12. Section 13201 does not address any of the costs associated with underdrain repairs for Filters 3 & 4. An allowance should be provided in the bid form.

**RESPONSE: Refer to the response to Question No. 5 above.**

13. Section 13201, paragraph 1.05B.1 requires the General Contractor to price removal of the existing Leopold system in Filter 3A. Is this to be part of the base bid or is it a change order item?

It should be noted that IMS caps are subject to clogging over time, the screws holding it in place can back out, and larger screws will be required to put new plates on or secure the older ones, and individual laterals or blocks cannot be reliably removed without damaging adjacent laterals. The Bidding Contractors should be required to provide a complete price for demolition of Filters 3 & 4 and for replacement of the underdrains by cell. Roberts has a comparable underdrain to the Leopold Type S in their Trilateral Underdrain.

**RESPONSE: It is not anticipated that work on the underdrains within Filters No. 3 and No. 4 will be required. However, Section 13201 is provided as a specification in case the existing underdrains in Filters 3 and 4 need to be rehabilitated and is relevant to any Filter Cell (not only Filter Cell 3A). Based on the inspection and testing of Filters 3 and 4, some filter components may need to be replaced. Any underdrain replacement required in Filters 3 and 4 shall be completed via a Change Order as agreed upon with the Town and Engineer.**

**See Changes to Contract Specifications section above.**

14. Please modify the bid form to require a write-in by the General Contractors in the bid form of the various major suppliers and underdrain manufacturers they propose to use if awarded the contract. This should include the Filter Underdrain Manufacturer and other major equipment manufacturers. Write-in bid forms stop post bid shopping and get the Owner the truly low bid price on bid day.

**RESPONSE: See Changes to Contract Specifications section above. An updated Subcontractor Form has been included to have Contractor's provide this information.**

15. How is the General Contractor supposed to cost the "If Required" items under Section 13201, Part 3, paragraphs 3.01 & 3.02? Is this part of the base contract or a change order item to be awarded after the inspection? Please advise. The Contractor is required to price work possibly not awarded as written and the paid form calls for a single lump sum price.

**RESPONSE: Refer to the response to Question No. 5 above.**

### **Section 13225: Filter Media**

16. AWWA 8100 requires a Sampling Entity to determine the lot size to determine the number of bags sampled. We recommend the Engineer specify the lot size as per each filter which would require four (4) different samples/testing. Please specify the lot size.

**RESPONSE: Per AWWA Standard B-100-01 (Not AWWA 8100), Table 4, the lot size is the number of bags produced in a batch. This value is dependent on the media supplier.**

17. Does the garnet sand have to be sampled?

**RESPONSE: Garnet sand does not have to be sampled.**

18. Is pea gravel acceptable for filling in the voids between laterals of the stainless-steel underdrain? If so, please provide desired specification for pea gravel. Pea gravel is considerably less costly than garnet sand.

**RESPONSE: Only garnet sand is acceptable for filling the voids between laterals of the stainless-steel underdrains.**

19. Why is media required to be tested after installation? This is a legal problem created unnecessarily. Who pays to remove the media from a filter after installation if it fails to pass but has already been approved twice by the Engineer? Please remove this requirement.

**RESPONSE: Testing of the filter media is required per Specification 13225 to ensure that media installation is in accordance with the Contract Documents. If the installed media is not in accordance with Specification Section 13325, the Contractor shall be responsible for the removal and replacement of the filter media.**

20. Please provide the properties of the existing garnet sand the Contractor is required to match per Section 13225, Paragraph 2.02.D.1.

**RESPONSE: Garnet Specifications identified in Section 13225, Paragraph 2.02.D, shall be used for replacing the existing garnet sand.**

21. Please provide an acid solubility and hardness specification for filter sand, garnet, and pea gravel if required.

**RESPONSE: The acid solubility of shall be <0.5% for anthracite, and <1% for sand and gravel. The hardness of anthracite shall be in the range of 2.5–3.5 on the Mohs scale, and hardness of sand and gravel shall be in the range of 6.5–7.0 on the Mohs scale.**

22. Please specify anthracite shall be shipped with a moisture content of not less than 3.5%. Moisture content should be sampled immediately upon delivery to the jobsite. Several manufacturers use a wet process and on large orders such as these the material is often not dried sufficiently resulting in costly shortages to the Contractor. Provide an independent on-site sampling with an independent test result to show compliance with this requirement.

**RESPONSE: The Contractor shall submit media specifications, including moisture content, as a part of the submittal process. Alternative media shipping and handling could be accepted contingent upon Town and Engineer approval.**

23. During media install, how many backwashes are available per 10-hour day so we can calculate time to install the media?

**RESPONSE: The Town may backwash filters up to 3 times per day. Note that the other filters in service also require periodic backwashes and the number of backwashes for filter rehabilitation may be less depending on the day. The Contractor shall coordinate closely with the Town on backwashing needs for the media installation, so that it has minimal impact on plant operations.**

24. Is there a fire hydrant close to the filter building and what is the working pressure on the hydrant?

**RESPONSE: There is a fire hydrant near the filter building and the working pressure is approximately 80 psi, but does fluctuate a bit depending upon plant operations and system demands. Use of the fire hydrant shall be coordinated with the Town. The Contractor shall notify the Town of any intended use, a minimum of 48 hours in advance of use.**

25. What is the purpose of the pre-conditioning of the filter media in Section 13226 and how is success measured?

**RESPONSE: Purpose of filter media conditioning is to acclimate the media for manganese removal. Preconditioning of the media shall be in accordance with Section 13226. Alternative pre-conditioning methods/plans could be acceptable contingent upon Town, Engineer, media Manufacturer, and the underdrain Manufacturer's approval.**

26. Why does the Engineer not specify a pre-conditioning plan rather than make the Contractor guess what the Engineer/Owner wants?

**RESPONSE: The plan for pre-conditioning media is in Section 13226. Alternative pre-conditioning methods/plans could be acceptable contingent upon Town, Engineer, media Manufacturer, and the underdrain Manufacturer's approval.**

27. Is it possible to revisit the plant after questions have been answered and at least three (3) days prior to the bid date?

**RESPONSE: Revisiting the site is acceptable. The Contractor shall contact Russell Chambers, Town Plant Manager, to coordinate visits.**

28. Can the Contractor work on weekends? Can the Contractor work from 7:00 AM-7:00 PM Monday-Thursday?

**RESPONSE: Extended work hours are acceptable by the Town, however, it may not be an option all the time depending upon staff availability.**

29. What is the Engineer's estimate for the project?

**RESPONSE: Pursuant to §2.2-4342 of the VPPA, cost estimates or Engineer's Estimates prepared by or for the Town are not available for public inspection.**

30. How does the Town of Leesburg plan on handling supply chain issues such as late deliveries, unavailable parts, increased prices from bid date to award, etc.?

**RESPONSE: The Town will allow for reasonable time extensions, which are properly documented by the Contractor. Consideration may be given to providing an administrative Notice to Proceed to allow for submittals and material procurement to be initiated, prior to construction Notice to Proceed being provided. These items will be coordinated with the Contractor awarded the project.**

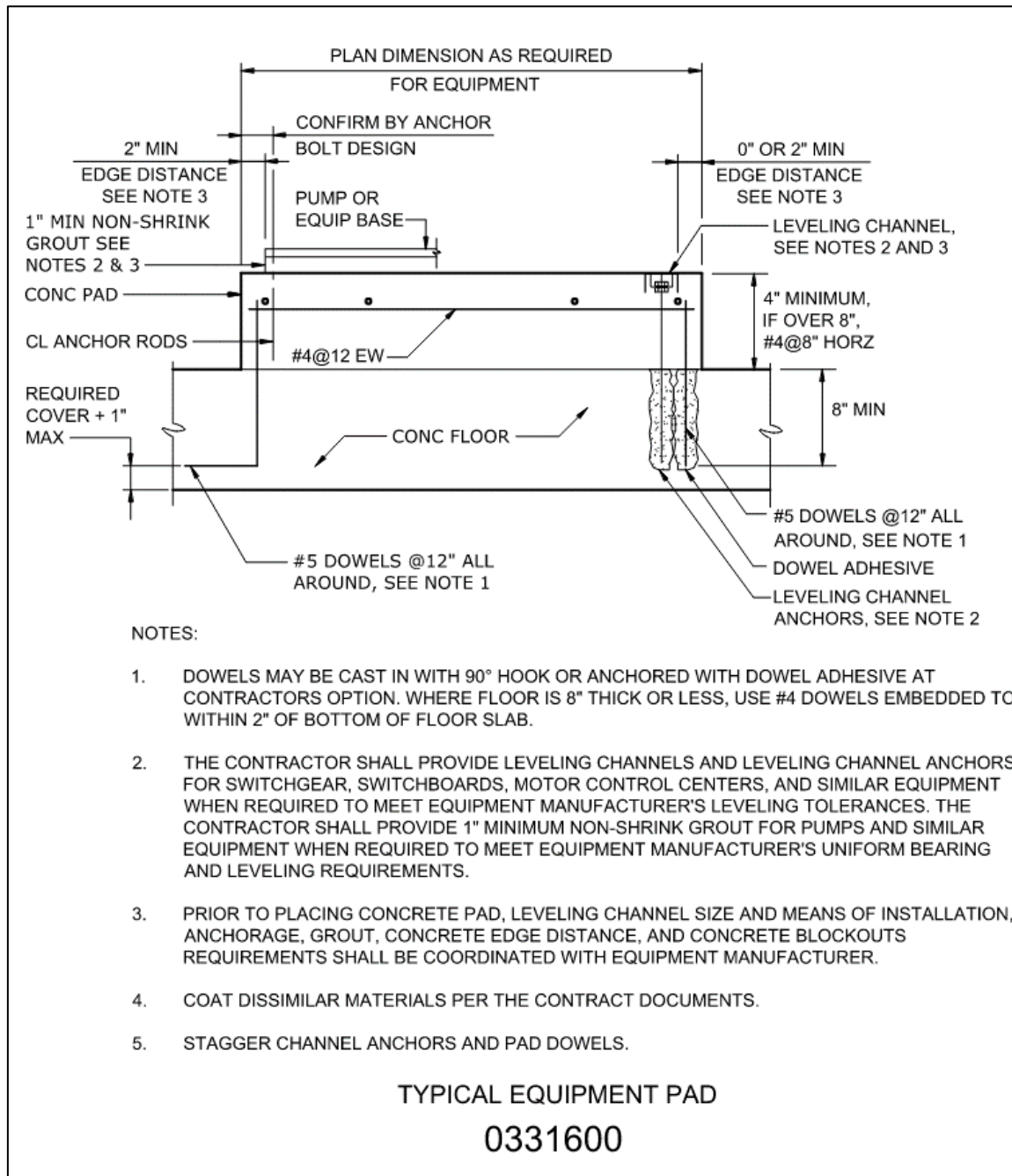
**The Town will work to expedite, to the extent possible, project award, following bid opening.**

31. Will the Owner allow reasonable time extensions requested by the Contractor for legitimate supply chain issues?

**RESPONSE: See response to Question #30 above.**

32. Can a detail be provided for the new concrete pad shown on page E3?

**RESPONSE: Detail for the equipment pad is shown below.**



33. Reference drawing M2 and M5. Please clarify what replaces the piping removed. Is this the tie-in point for the new air piping? How is this to occur?

**RESPONSE: The Contractor shall refer to the Section View on Contract Drawing M6 for tie-ins to the existing air header.**

34. Specification 17000, 1.04, B states that "subcontractors shall be M.C. Dean and Object Automation; or approved equal." Is it intended that this project would need both M.C. Dean and Object Automation? Please provide a contact for each company.

**RESPONSE: M.C. Dean is the proposed Integrator – refer to the response to Question No. 35 below. The Town has typically dealt with their Harrisonburg office. Object Automation is the SCADA Platform. Key to the successful replacement of the Integrator with an "Or Equal" will be the ability of the proposed**



**Integrator to perform modifications to the existing SCADA System, including Object Automation platform programming changes.**

**M. C. Dean  
1650 C F Pours Dr.  
Harrisonburg, VA  
(540) 442-6270**

35. Would Micro-Tech Designs and Optimum Controls Corporation be acceptable as approved equals for the I & C Subcontractor?

**RESPONSE: The Subcontractor (integrator) may submit their Qualification Form and Reference Form to the Bidder to be included in the Bid. Refer to the "Or Equal" requirements of the Specifications (General Conditions Paragraph 4.6). The Owner will review and evaluate the qualifications of the Subcontractor (integrator) submitted with the Bid. The Owner may accept an alternate integrator provided that the qualifications meet the requirements of the Contract Documents. The Owner reserves the right to reject any integrator that does not have the required qualifications upon review of the submitted documentation. Key to the successful replacement of the Integrator with an "Or Equal" will be the ability of the proposed Integrator to perform modifications to the existing SCADA System, including Object Automation platform programming changes.**

36. Would a second site visit be possible, if needed

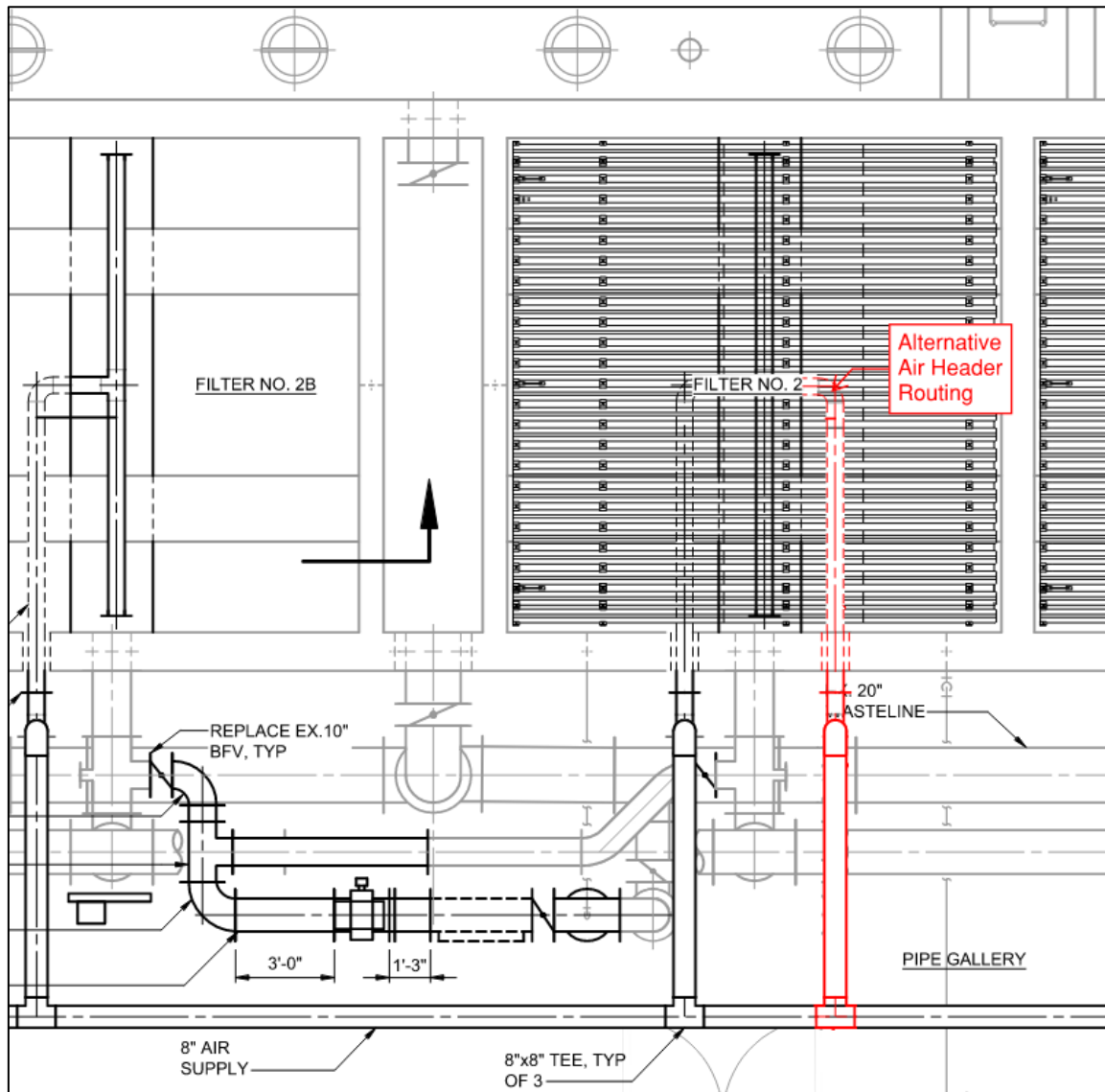
**RESPONSE: Please refer to the response to Question No. 27.**

37. During our site visit, it was noted that a venturi tube is located where the section of the existing air header is to be removed. Is the venturi tube to be removed? Please clarify.

**RESPONSE: The venturi on the existing air header shall not be removed and shall remain in service. The Contractor shall tie-in the new air header after the venturi flowmeter. The Contractor shall use necessary fittings (i.e., bends and elbows) for routing of the proposed air header.**

38. During our site visit, it was noted that electrical components, chemical lines, and a valve actuator potentially interfere with the location of the new blower piping for Filter No. 1A. Similar conditions exist at Filter No. 1B, 2A, and 2B. Is the contractor responsible for relocating these utilities?

**RESPONSE: The new blower piping can be located on either side of the existing filter effluent piping. Alternative air header routing is shown below. The Contractor shall be responsible for relocating/rerouting of the existing utilities, as deemed necessary, for a fully functioning system. Relocations shall be coordinated with the Town and Engineer for review and approval.**



39. Reference the General Conditions; Section 11.2.1 of the insurance spec states that the General Liability policy should have coverage for Owners Protective Liability.

Please confirm that the Owner does not want a separate Owners Contractors Protective Liability policy, and that the Owner can be added as an Additional Insured on the General Liability to meet this requirement.

**RESPONSE: The Town can be added as an Additional Insured on the General Liability to meet this requirement.**

40. We are looking to get CEI Filtration listed as an approved manufacturer for Anthracite supply on this contract. CEI is one of 2 dry anthracite manufacturers and has an extensive history of manufacturing Anthracite for drinking water purposes. Attached is proof of NSF, Affidavit of compliance and reference to experience.

**RESPONSE: CEI Filtration could be considered an "approved equal" for anthracite supply, subject to meeting the "Or Equal" requirements of the Specifications (General Conditions Paragraph 4.6). Town**

and Engineer will review and evaluate the qualifications submitted accordingly. The Town reserves the right to reject any supply that does not meet the required qualifications upon review of the submitted documentation.

**BIDDERS MUST TAKE DUE NOTICE AND BE GOVERNED ACCORDINGLY. THIS ADDENDUM MUST BE ACKNOWLEDGED AS INDICATED IN THE INVITATION FOR BID OR YOUR BID MAY NOT BE CONSIDERED.**

*For the Town of Leesburg,  
Octavia Andrew, NIGP-CPP, CPPO, VCO  
Chief Procurement Officer  
Town of Leesburg, Virginia  
Email: [bidquestions@leesburgva.gov](mailto:bidquestions@leesburgva.gov)  
Bid Board: <http://www.leesburgva.gov/bidboard>*

**BID FORM – FOR REFERENCE ONLY**

**\*\* Submit bid pricing electronically via eVA. This form is for reference only and should not be submitted with a bid. \*\***

Item	Description	Quantity	Unit of Measure	Unit Price	Extended Price
A-1	Kenneth B. Rollins WFP Filters 1 and 2 Rehabilitation, in accordance with CONTRACT DOCUMENTS, PLANS, AND SPECIFICATIONS, as necessary to furnish a complete operating facility. To include, but not be limited to, demolition of existing underdrains, disposal of material, demolition of water wash, installation of air wash, installation of underdrains, updating control panels, and testing of the underdrain system. The work shall not impact operation of the adjacent filters and plant operations.	1	LS	N/A	
A-2	Kenneth B. Rollins WFP Filters 1 through 4 media removal and replacement, in accordance with CONTRACT DOCUMENTS, PLANS, AND SPECIFICATIONS, as necessary to furnish a complete operating facility. This item shall include, but is not limited to, all work and costs associated with the removal, disposal, replacement, and testing of all existing filter media. The work shall not impact operation of the adjacent filters and plant operations. Other work includes pressure washing the filter cell's interior, removal and replacement of protective coating as specified in the drawing. The filter is located inside the filter building and access is limited through double doors and stairs.	1	LS	N/A	
A-3	Kenneth B. Rollins WFP Finished Water Pump No. 3 VFD removal, disposal, and replacement, in accordance with CONTRACT DOCUMENTS, PLANS, AND SPECIFICATIONS, as necessary to furnish a complete operating facility.	1	LS	N/A	
A-4	Kenneth B. Rollins WFP Filter Piping, Fittings, Valve, and Flow Meter (Filters No. 1 through No. 4) replacement and installation, in accordance with CONTRACT DOCUMENTS, PLANS, AND SPECIFICATIONS, as necessary to furnish a complete operating facility.	1	LS	N/A	
A-5	Contingent Coating Repair: This item shall include, but is not limited to all work and costs associated with coating repair located inside Filters No. 1 through No. 4. The work includes removal of all failing coating within Filters No. 1 through No. 4 where the initial pressure washing, described in Item 2, does not completely remove the failed coating. Failing coating shall be removed to exposed bare concrete. Back edges of intact coatings shall be grinded back to provide a smooth transition to concrete. Abrasion of the existing coating shall be completed prior to coating around the area to be coated. Contractor shall apply two coats of an NSF approved epoxy coating to the exposed and abraded areas as specified in the Contract Documents. All membrane patch work and crack repair areas shall be coated with the same approved epoxy. Total area of coating repair shall be determined during a joint field inspection with the Owner, Contractor, and Engineer. Repair shall be as directed by the Engineer and Owner.	150	SF		

A-6	<p>Contingent Waterproof Membrane Patch Repair:  This item shall include, but is not limited to all work and costs associated with crack and joint repair located inside Filters No. 1 through No. 4 and the exterior walls located within the filter gallery. The work includes repair of all leaking cracks or joints deemed necessary by the Engineer with a waterproof membrane patch as specified in the Contract Documents. Waterproof membrane patch shall be installed following injection grout, where grout is directed by the Engineer or Owner. Total length of membrane patch installation shall be determined during a joint field inspection with the Owner, Contractor, and Engineer. Repair shall be as directed by the Engineer and Owner.</p>	250	LF		
A-7	<p>Contingent Waterproof Injection Grout Repair:  This item shall include, but is not limited to all work and costs associated with crack and joint repair located inside Filters No. 1 through No. 4. The work includes repair of all leaking cracks or joints deemed necessary by the Engineer with waterproof injection grout as specified in the Contract Documents. The joint shall than be sealed with a waterproof membrane patch as specified in the drawing. Total length of crack joint and crack repair required shall be determined during a joint field inspection with the Owner, Contractor, and Engineer. Repair shall be as directed by the Engineer and Owner.</p>	200	LF		
A-8	<p>Contingent Surface Spall Repair:  This item shall include, but is not limited to all work and costs associated with repair of all spalled areas located inside Filters No. 1 through No. 4. Maximum thickness of surface spall repair shall be assumed as one inch. Total extent of surface spall repair required shall be determined during a joint field inspection with the owner, Contractor, and Engineer. Repair shall be as directed by the Engineer and Owner.</p>	40	CF		
<b>TOTAL BID PRICE</b>					\$ _____
_____ (in words)					_____ (in figures)

**SUBCONTRACTOR FORM**

*Note: Please note QUALIFICATIONS OF THE LOWEST BIDDER SECTION of the Bid Documents. The following information is required as part of your response to this solicitation. Failure to complete and provide this form with your bid response may result in the Town deeming your bid as non-responsive.*

**If you are NOT using any subcontractor(s), please initial here \_\_\_\_\_**

**If you are using subcontractor(s), please list them in the following table:**

<i>Subcontractor(s) Name &amp; Address</i>	<i>Contact Name, Email Address, &amp; Phone Number</i>	<i>Type of Work to Be Performed</i>	<i>Percentage of Work</i>

**Indicate here which Filter Underdrain Manufacturer is included in your Bid \_\_\_\_\_**

**Indicate here which Finished Water VFD Manufacturer is included in your Bid \_\_\_\_\_**

**I/We agree that the information provided herein is accurate, current, and complete to the best of my/our knowledge.**

**Signature:** \_\_\_\_\_

**Title of Company Official:** \_\_\_\_\_

**Date:** \_\_\_\_\_

*BIDDER MUST RETURN THIS FORM WITH THEIR BID*