



**TOWN COUNCIL INFORMATIONAL  
WORK SESSION AGENDA**

**Starting at 6:00 PM**

**August 29, 2022**

**I. Call to Order and Roll Call**

**II. Pledge of Allegiance**

**III. Informational discussion on the following:**

1. Chesapeake Beach Water Reclamation Treatment Plant Filter Cover RFP
2. American Rescue Plan Priority Projects
3. Richfield Station Water Tower Pump
4. Public Works Multi-Purpose vehicle purchase
5. RT 260 replacement clock

**IV. Council Lightning Round**

- V. Closed Session** – Motion to close the regular meeting to go into a closed session under the Statutory Authority of Md. Annotated Code, pursuant to General Provisions Article, §3-305(b) subsection (7) “to consult with legal counsel to obtain legal advice”.

**VI. Adjournment**

**8200 BAYSIDE ROAD, P.O. BOX 400 CHESAPEAKE BEACH, MARYLAND 20732**

**(410) 257-2230**

**(301) 855-8398**



To: The Honorable Mayor and Town Council

From: Holly Wahl, Town Administrator

Subject: Chesapeake Beach Water Reclamation Treatment Plant (CBWRTP) Filter Covers

**Date: August 26, 2022**

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## **I. BACKGROUND:**

The Town of Chesapeake Beach released a request for proposals for the Clarifier, Mudwell, Clearwell, and Covers Installation at the Chesapeake Beach Water Reclamation Treatment Plant (CBWRTP). RFP information can be obtained on eMMA eMaryland Marketplace Advantage Project [Source # BPM031120](#).

The filter covers are needed in order to address algae growth at the plant in order to meet State requirements.

## **II. SCOPE OF WORK:**

See Exhibit "A"

## **III. RFP SCHEDULE:**

- a) **A mandatory pre-bid meeting** will be held on August 30th at 10 AM. The meeting will start at 8200 Bayside Rd. Chesapeake Beach MD the Chesapeake Beach Town Hall. The meeting will finalize with a site visit to the Chesapeake Beach Water Reclamation Treatment Plant (CBWRTP).
- b) **Sealed Proposals** will be received on September 7<sup>th</sup> and opened in Town Council chambers at 9 AM.
- c) **Review of proposals** Town staff will engage the Town Engineer in the review of the proposals submitted and provide a recommendation for the Town Council.

## **IV. RECOMMENDATION:**

The town staff plans to make a recommendation at the upcoming Town Council meeting of the most responsive bidder for this project.

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**SECTION 01000  
SUMMARY OF WORK**

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**01000.01 GENERAL**

A. DESCRIPTION

1.A.1 Unless otherwise expressly provided in the Contract Drawings, Specifications and any Addenda; the work must be performed in accordance with the Contract Specifications Set and with best modern practice, with materials and workmanship of the highest quality to the satisfaction of the Owner.

1.A.2 All work shall be done per Contract Drawings Set, Standard Specifications, and latest edition and any revisions hereto.

B. MEANS & METHODS OF CONSTRUCTION

1.B.1 Unless otherwise expressly provided in the Contract Drawings, Specifications and Addenda; the means and methods of construction shall be such as the Contractor may choose subject, however, to the OWNER'S right to reject means and methods proposed by the Contractor which:

1.B.1.a Will constitute or create a hazard to the work or to persons or damage to property or existing utilities.

1.B.1.b Will not produce finished work in accordance with the terms of the Contract.

1.B.2 The Owner's approval of the Contractor's means and methods of construction, or his failure to exercise his right to reject such means or methods; shall not relieve the Contractor of his obligation to accomplish the result intended in the Contract, nor shall the exercise of such right to reject create a cause of action for damages.

C. SUMMARY OF WORK

1.C.1 The intent of this project is to install an aluminum grating platform covering in its entirety, unless shown otherwise on the drawings, mudwell tank, denitrification filters No. 1 through No. 4, and clearwell tank. The grating shall have penetrations as shown on the contract drawings. New handrail shall be installed for safety. Launder covers shall be installed in clarifiers No. 1 and No. 2 as shown on the contract drawings. Part of the existing handrail shall be removed as shown on the contract drawings.

**01000.02 EXISTING STRUCTURES & UTILITIES**

A. Prior to installing anchors for trough cover, contractor must scan existing concrete structure to accurately locate existing post tensioning cables. All new anchors shall be located to avoid the existing cables. The contractor shall prepare shop drawings showing all new anchor locations plus the existing post tensioning cables found.

B. Any information as to the location of existing structures and utilities both at and

below ground surface on the Contract Drawings or in information provided by the Owner is not guaranteed as to accuracy or completeness. The Contractor shall make such supplemental investigations, as he deems necessary and shall have no claims for damages due to encountering subsurface structures or utilities in locations other than shown on the Contract Drawings. The utility locations, as found, shall be painted and/or staked on the surface as necessary to establish subsurface utility line locations. If the Contractor, in making up or submitting his bid, relies on said information, he does so at his own risk. The giving of this information on the Contract Drawing or by the Owner will not relieve the Contractor of his obligations to support and protect all pipes, conduits, telephone lines, and other structures which may be met with during construction of the work and to make good all damage to such pipes, conduits, telephone lines, and other structures, as provided, in the specifications.

The Contractor shall be responsible for contacting MISS Utility at 1-800-257-7777 to locate existing utilities. The Contractor shall have Miss Utility mark all areas where the Work is to be performed.

### **01000.03 PROTECTION OF EXISTING STRUCTURES & UTILITIES**

#### **A. GENERAL**

- 3.A.1 The Contractor shall be required, at his own expense, to protect, support and sustain all existing piping, electric lights, power, conduits, wires or cables, and other fixtures laid across or along the site of the work. The Owner as well as the Company or Corporation owning said facilities must be notified by the Contractor before any such facilities are removed or damaged. In case any of the said facilities are damaged, they shall be repaired by the authorities having control of the same, and the expense of said repairs shall be paid by the Contractor or deducted from the monies which are due or to become due said Contractor under this contract.
- 3.A.2 Should it become necessary to change the position or temporarily remove any such facilities in order to permit the Contractor to use a particular method of construction, the Contractor shall notify the Owner of the location and circumstances, and shall cease work if necessary, until satisfactory arrangements have been made by the Owner's of the said facilities to properly care for the same. No claims for damages will be allowed on account of any delay occasioned thereby. The entire cost of the changes or temporarily removal must be included in the prices bid in the Proposal for the various classifications of work.
- 3.A.3 If so ordered in writing by the Owner, the Contractor shall make permanent changes in the location of electrical conduits and wires if they are obstructing the new Work to be built.

### **01000.04 WORKING HOURS**

- A. Work under this contract shall not be prosecuted on Saturdays, Sundays, or on State and National Holidays, except in time of emergency, and then only under written permission from the Owner who shall be the sole judge as to the urgency of that emergency. The workday shall not begin before 7:00 A.M. and shall end prior

to 3:30 P.M. unless the Contractor requests permission of the Owner to do so on a case-by-case basis. Working hours and working conditions for those days requested by the Contractor and approved in writing by the Owner will be determined at the time of the Contractor's request. Total normal working hours per week (Sunday to Saturday) shall not exceed forty (40) unless the Contractor requests permission of the Owner to do so on a case-by-case basis.

- B. Should the Contractor deem it necessary to work on Saturdays, Sundays, or on State and National Holidays, or outside the hours described in the previous paragraph in order to comply with his construction schedule or because of an emergency; the Contractor shall request permission of the Owner to do so. If, in the opinion of the Owner the need is bona fide, he will authorize in writing the Contractor to work such hours as may be necessary.
- C. If the Contractor receives authorization from the Owner to work outside the scope of normal working hours, as described above, costs incurred by the Owner arising from such lengthening of hours, including the furnishing inspectors, shall be the Contractor's responsibility and the cost thereof may be deducted from monies owed to the Contractor.

#### **01000.05 USE OF PREMISES & REMOVAL OF DEBRIS**

- A. The Contractor expressly undertakes at his own expense:
  - 5.A.1 To take every precaution against injuries to persons or damage to property.
  - 5.A.2 To store his apparatus, materials, supplies and equipment in such orderly fashion at the site of the work as will not unduly interfere with the progress of his work, or the work of any other contractors;
  - 5.A.3 To clean up frequently all refuse, rubbish, scrap materials, and debris caused by his operations, to the end that at all times the site of the work shall present a neat, orderly and workmanlike appearance;
- B. Before final payment to remove all surplus materials, false-work, temporary structures, including foundations thereof; plant of any description and debris of every nature resulting from his operations, and to put the site in a neat, orderly condition.

**END OF SECTION**

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**SECTION 01301  
SUBMITTALS**

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**01301.01 GENERAL**

A. DESCRIPTION

- 1.A.1 The Contractor shall submit to the Engineer the specified number of copies of shop drawings for approval. At the time of submission the Contractor shall call to the Engineer's attention, in writing, any deviations that the shop drawings may have from the requirements of the Plans and Specifications. All shop drawings shall be submitted with an Index and a cover letter for approval within the time frame specified.
- 1.A.2 The Contractor shall submit construction progress schedules showing the order in which he or she proposes to carry on the Work, including dates at which he or she will start the various parts of the Work and estimated date of completion of each part.
- 1.A.3 The Contractor shall submit a detailed Contract Bid Breakdown of the construction costs in a form acceptable to the Owner with the executed Contract. The Contract Bid Breakdown will be used for estimating the value of monthly progress payments.
- 1.A.4 The Contractor shall submit a schedule of payments that he anticipates he will earn during the course of the work.

**01301.02 SUBMITTALS**

The Contractor shall submit the shop drawings with a cover letter marked as either "Submitted as Specified" or "Submitted as Equal to Specified."

Each shop drawing submission shall cover only one specification section, which shall be identified in the cover letter. Each copy of the shop drawings shall be marked to identify all options or features the equipment will contain.

All shop drawings, regardless if "Submitted as Specified" or "Submitted as Equal to Specified," shall be furnished with complete, specific, detailed information from the manufacturer or supplier of the material or equipment the Contractor proposes to furnish, in which the requirements of the Specifications are clearly shown to be met. This shall include a point-by-point comparison with the detail requirements of the Specifications.

Where any article is specified by trade name or name of manufacturer with or without the clause "or equal", it is intended to establish the quality of the article. If the Contractor proposes to use material or equipment of another manufacturer as an "or equal" to materials or equipment specified, all shop drawings shall conform to the following requirements, conditions, and procedure:

Substitution of equipment or materials other than those specified will be considered, providing, in the opinion of the Engineer, such equipment or material is equal to, or better than that specified. The decision of the Engineer with respect to approval or disapproval of any material or equipment proposed to be

substituted as an "or equal" is final. The Contractor shall have no claim of any sort by reason of such decision.

If the Contractor proposes to substitute materials or equipment as "or equal" to those specified, it shall be his responsibility to furnish, in addition to the information discussed above, a point-by-point comparison of the material or equipment specified under the Contract and that proposed to be substituted. The burden of responsibility in furnishing this information is with the Contractor.

If incomplete or irrelevant data is submitted as evidence of compliance with this section of the Specifications, the data will be returned and the request for approval will be denied.

Submittals for substitutions shall be submitted within 15 days after notice to proceed is issued.

Submittals shall be in accordance with G.P. 5.04 of the Standard Specifications

### **01301.03 APPROVAL**

The Engineer will review and stamp the shop drawings in one of the following ways:

- A. Accepted as Specified
- B. Accepted as Equal to Specified
- C. Accepted as Noted
- D. Revise and Resubmit
- E. Rejected
- F. Informational Purposes Only

The Engineer's comments will be returned to the Contractor within 15 working days of submittal. For purposes of establishing the comment period, the review time begins on receipt by the Engineer of the complete shop drawing submittal including the cover letter transmitting the "shop drawing" information. The Engineer's comments will include specific details as to why or where the shop drawings do not comply with the Contract drawings or specifications. The Engineer may review only such data and details as are transmitted to him by the Contractor. The Contractor shall coordinate between all suppliers and Subcontractors.

The specified number of copies of the accepted shop drawings will be returned by the Engineer.

### **01301.04 PLAN AND SPECIFICATION CONFORMITY**

Corrections or comments on the shop drawings during the Engineer's review do not relieve the Contractor from compliance with the requirements of the drawings and specifications. The Town or Engineer will not be responsible for errors or omissions on drawings furnished by the Contractor, even though drawings containing such errors or omissions are inadvertently approved. The review is only general conformance with the design concept of the Project and general compliance with the information given in the Contract Documents. The Contractor

is responsible for confirming and correlating all quantities and dimensions; selecting fabrication processes and techniques of construction; and in performing this in a safe manner. If the shop drawings deviate from the Contract Documents, the Contractor shall advise the Engineer of the deviations, in writing accompanying the shop drawings, including the reasons for the deviations, and shall request a deviation from the Contract Documents.

**01301.05 FABRICATION**

The Contractor's attention is specifically directed to the fact that no items shall be fabricated, nor equipment or materials ordered nor any construction performed, prior to approval by the Engineer of shop drawings applicable thereto. However, to expedite the Project, the Contractor may request authorization from the Engineer to order critical items before formal approval of drawings. Items ordered or fabricated without such authorization or until drawings are approved by the Engineer, which are subsequently rejected, are the responsibility of the Contractor and may not be the subject of a claim for compensation.

**01301.06 PAYMENT**

No extra measurement or payment shall be made for compliance with the requirements of this Section of the Specifications; costs shall be included in the applicable items as shown on the Proposal.

Failure to comply with this Specification and to submit the necessary shop drawings approval within 90 days of Award shall be sufficient reason to suspend progress payments.

**01301.07 AS-BUILT DRAWINGS**

The Contractor shall maintain one set of Plans clearly marked to show all field modifications and other changes. Upon completion of the Work, the Contractor shall furnish to the Engineer the services of a qualified person to assist in the preparation of as-built drawings for a time period not less than one week. Accordingly, the Contractor is responsible for recording and advising the Engineer promptly of any necessary field modifications to ensure accurate as-built drawings. As-builts shall be furnished to the Town.

**01301.08 OPERATION AND MAINTENANCE MANUALS**

A. General

The Contractor shall furnish and submit to the Engineer the specified number of Operation and Maintenance (O&M) Manuals for approval. The O&M Manual shall cover all products, equipment, and systems provided and installed under this Contract. While Work is in process, but prior to the 50 percent payment, the Contractor shall deliver three (3) copies of the O&M Manual in preliminary draft form to the Engineer for review. Prior to completing the Work and prior to the 85 percent



payment, the Contractor shall provide three (3) copies of the final draft O&M Manual to the Engineer for approval. All comments generated by the Engineer during review of the preliminary draft manual must be adequately addressed by the Contractor prior to submission of the final draft manual. The final draft O&M Manual must be received by the Engineer prior to scheduling the Conditional Acceptance inspection and issuance of Conditional Acceptance. The final draft O&M Manual must be approved by the Engineer and the requisite number of copies submitted by the Contractor prior to the Final Acceptance inspection and issuance of Final Acceptance. There will be no deviations from these requirements.

B. Manual Preparation

Manuals shall include both a comprehensive shop drawing submittal log as well as equipment operation and maintenance data. The Contractor's prepared manual may be supplemented by additional operational data prepared by the design engineer as directed by Chesapeake Beach WWTP. The inclusion of engineer prepared information shall not relieve the Contractor of completing his requirements as described in the Contract documents. The shop drawing submittal portion of the manual shall contain a complete set of all approved shop drawing submittals for the Project. A typed table of contents shall be prepared by the Contractor indicating the submittal number and submittal description.

All submittals shall be indexed by a reinforced divider with a typewritten tab indicating the submittal number. Operation and maintenance information shall be included for all mechanical and electrical equipment. The compiled data shall consist of assembly drawings, brochures, bulletins, catalogs, catalog cuts, installation guides, lubrication schedules, operator's/owner's/ maintenance manuals, recommended spare parts inventory and ordering information, trouble-shooting guides, warranty information, as-built wiring diagrams and other related data necessary for the operation, preventative maintenance and repair of equipment installed under this Contract. As a minimum the Contractor furnished O&M Manual shall include the following information:

1. Title page giving name and location of facility, Project number, Contract number, general Contractor (name, address, and phone number), and design engineer (name, address, and phone number) and date.
2. Tabbed index dividers with the name, address, and phone number of the equipment manufacturer, supplier, installer, and authorized representative for parts and service. In addition, all equipment nameplate data and serial numbers shall be reproduced on the front of the divider.
3. Performance curves with operating points identified where applicable.
4. Manufacturer's shop cuts and dimension drawings of each piece of equipment with assembly details of replacement parts.
5. Manufacturer's installation, operation, maintenance, and lubrication instructions for all equipment.
6. Manufacturer's trouble-shooting guides presented in the format of "decision trees."
7. Complete wiring diagrams, corrected to as-built conditions, of all individual pieces of equipment and systems including one-line diagrams, schematic diagrams, and interconnection and terminal board identification diagrams.

8. Piping and interconnecting drawings.
9. Complete parts list with parts assembly drawing, names and addresses of spare parts suppliers, and a list of recommended spare parts to be kept in stock. In addition, a complete listing of spare parts included in the original equipment purchase order and turned over to the Chesapeake Beach WWTP shall be included.
10. Instructions with diagrams for disassembling and re-assembling the equipment for repairs or overhaul.
11. The information necessary to complete the equipment file maintenance forms (manufacturer, model number, serial number, other name plate data) for each piece of equipment furnished under the contract.
12. Test results and certifications including infrared tests, load tests and vibration signatures.

All information for the manuals shall be organized and assembled in loose-leaf 3-ring binders with black plastic-coated or vinyl covers. Where necessary, more than one binder may be used to assemble the data. When two or more binders are used, each book or volume shall be titled to indicate its particular book or volume number and the total number of volumes per set (i.e., volume 2 of 12). The Contractor shall plan manual contents and shall "break" the data between volumes at reasonable locations so no loss in continuity of data presentation occurs. Tabbed index dividers shall be typewritten for legibility. Dividers shall be reinforced on the binding edge. The indexing system shall allow easy identification and retrieval of information. The indexing system shall be consistent throughout the entire manual. All data for inclusion in the manuals shall be printed on an 8-1/2" X 11" sheet size. Where drawings or schematic diagrams cannot be reduced and maintain legibility, they may be folded to a size of 8-1/2" X 11". Folded drawings shall be bound into the manuals by using file pockets or sheet protectors with manufactured three-hole binding edges. Illegible data due to any cause, including poor copy quality or reduction, will not be accepted. Manuals with illegible data shall be rejected and returned to the Contractor for correction.

#### C. Electronic O&M Data:

1. Electronic submittals shall contain information described above and shall meet the requirements herein.
2. Electronic equipment manual files shall be submitted in searchable Adobe Acrobat Reader (.PDF) format unless otherwise mutually agreed upon by Contractor and Engineer.
3. Electronic files shall be submitted on USB drives. USB drives shall be provided in a Flash Drive Zipper Case for 3-ring binders with paper insert providing the project name, supplier, equipment identification and specification section. USB drives will be separated by volumes; permanently label USB drives accordingly. Volumes will be separated by Mechanical, Electrical/Instrumentation and Generator. Each volume shall result in a single searchable PDF file with the same name as its title of the hard copy binder. The PDF file shall have a table of contents which aligns with the printed table of contents.

4. Digital submittal on USB drive(s) shall be indexed and tabbed in the same manner as the hardcopy versions. Bookmark and thumbnail tabs shall be provided for quick access to the desired volumes and sections.
5. In addition to the complete manual submitted in PDF format, the supplier shall furnish electronic files containing the following information in MicrosoftWord (.doc), rich text (.rtf), or ASCII text (.txt) format.
  - a. Operation Description - Discuss operational procedures for the equipment supplied. Operational procedures shall include "startup procedures," "normal operation," "automated operation," and "shutdown procedures." Where multiple modes of automatic operation exist, describe each mode separately.
  - b. Controls - Provide a table outlining the controls provided for the unit. Utilize two columns in the table. The left-hand column shall indicate the location of the control (e.g., local to the pump, remote control panel, etc.). In the right-hand column describe the control and its function.
  - c. Troubleshooting Provide - a troubleshooting table with three columns entitled "Problem," "Possible Causes," and "Corrective Action," Under the "Problem" column, identify possible problems that may occur with the equipment or system including, but not limited to, all malfunctions that can be expected for the equipment and all alarm indications provided by the system. Under the "Possible Causes" column, identify the causes that may be the root of each "Problem." Under the "Corrective Action" column, provide direction to verify and rectify/repair the "Problem."
  - d. Preventive Maintenance - Provide a preventive maintenance table containing headings for "Daily", "Weekly", "Monthly", and "Annual" (or other period as required) maintenance requirements. Under each heading, indicate visual inspections, procedural inspections, calibration routines, lubrication, and all other manufacturer suggested preventive maintenance procedures required for the equipment or system. List recommended lubricants and any special tools required for the recommended maintenance.
  - e. Nameplate Data Provide - nameplate data tables consisting of two columns. In the left hand column, indicate the equipment name, equipment designation, manufacturer, model number, serial number, year installed, dimensions, min and max speed, min and max torque, measurement range, accuracy, and all other data that may assist maintenance persons in identifying, replacing, and maintaining the piece of equipment. Provide the appropriate values and designations in the right-hand column. Provide a separate nameplate data table for each major system component, including gear reducers, motors, etc. Motor nameplate data tables shall include as a minimum,

manufacturer, model, and serial number.

- f. Manufacturer and Sales Representative Information - Indicate the equipment manufacturer name, mailing address, telephone number, fax number, email address, website address, and contact person's name. Provide the same information for the local manufacturer's representative who supplied the equipment.
- g. USB flash drive(s) shall be provided in a Flash Drive Zipper Case for 3-ring binders (vinyl plastic).

**01301.09 O&M MANUAL APPROVAL**

Upon written approval of the final manual by the Engineer, the Contractor shall submit one (1) hard copy and two (2) electronic copies (on USB flash drive) of completed manual to the Engineer. The Engineer will distribute the manual as directed by the Chesapeake Beach WWTP. Final payment to the Contractor will not be made, nor will final acceptance be made until the required numbers of copies of the approved Manual are received by the Engineer for distribution manual.

**END OF SECTION**

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**SECTION 05200**  
**MISCELLANEOUS METALS & STRUCTURAL ALUMINUM FRAMING**

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PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Aluminum framing members, support members and connections.
- B. Aluminum grating
- C. Misc. Supports, Anchors and Fasteners
- D. Handrail/Guardrail
- E. Ladder

1.02 REFERENCE STANDARDS

- A. Aluminum Design Manual – The Aluminum Association.
- B. ASTM A36-84a - Structural Steel.
- C. ASTM A53-90a Pipe, Steel, Black and Hot-Dipped, Zinc-Coated Welded and Seamless.
- D. ASTM A193-90 Alloy Steel and Stainless Steel Bolting Materials for High Temperature Service.
- E. ASTM A194-90 Carbon and Alloy Steel Nuts for Bolts for High- Pressure and High-Temperature Service.
- F. ASTM A123-78 Zinc (Hot-Galvanized) Coatings on Products Fabricated from Rolled, Pressed and Forged Steel Shapes, Plates, Bars, and Strip.
- G. ASTM A307-90 Carbon Steel, Externally and Internally Threaded Standard Fasteners.
- H. ASTM B26-91 Aluminum-Alloy Sand Castings.
- I. ASTM B108-91 Aluminum-Alloy Permanent Mold Castings.
- J. ASTM B211-90 Aluminum-Alloy Bars, Rods, and Wire.
- K. ASTM B308-90a Aluminum-Alloy Standard Structural Shapes, Rolled and Extruded.
- L. ASTM B209-10 – Standard Specification for Aluminum and Aluminum Alloy Sheet and Plate
- M. ASTM B308/B 308M – Standard Specification for Aluminum-Allot 6061-T6 Standard Structural Profiles
- N. ASTM B221 – Standard Specification for Aluminum and Aluminum-Alloy Extruded Bars, Rods, Wire, Profiles, and Tubes
- O. ASTM B429 - Standard Specification for Aluminum-Alloy Extruded Structural Pipe and Tube

- P. AWS D1.2 – Structural Welding Code, Aluminum
- Q. IBC 2018 – International Building Code.
- R. American National Standards Institute (ANSI) Publications: A14.3-74 Safety Requirements for Fixed Ladders
- S. National Association of Architectural Metal Manufacturers (NAAMM) Publications: Metal Finishes Manual (January 1976)
- T. American Welding Society (AWS) Publication: D1.1-80 Structural Welding.
- U. American Institute of Steel Construction (AISC) Publications: Manual of Steel Construction (8th Edition)
- V. Aluminum Association Publication: “Aluminum Construction Manual - Specifications for Aluminum Structures”.
- W. Steel Structures Painting Council (SSPC) Publications:
  - 1. SSPC-SP3 Surface Preparation Specification No. 1, Solvent Cleaning
  - 2. SSPC-SP6 Surface Preparation Specification No. 6, Commercial Blast Cleaning.

#### 1.03 SUBMITTALS

- A. See Section 01300 – Submittals, for submittal procedures.
- B. Manufacturer’s Data: Submit manufacturer’s specifications, load tables, dimension diagrams, anchor details and installation instructions for products to be used in miscellaneous metal work, including paint products.
- C. Shop Drawings:
  - 1. Submit shop drawings for the fabrication and erection of all assemblies of miscellaneous metal work. Include plans, elevations, and details of sections and connections. Show anchorage and accessory items.
  - 2. Include setting drawings for location and installation of miscellaneous metal items and anchorage devices.
  - 3. Indicate profiles, sizes, spacing, and locations of structural members.
  - 4. Include details of cuts, openings, attachments, fasteners, splices and camber.
  - 5. Detail all connections.
    - a. Indicate welded connections with AWS welding symbols. Include type, size and length.
    - b. Indicate all AWS weld designations for pre-qualified full and partial penetration welds and detail all joint preparations.
  - 6. Provide erection details for all field welded connections.
  - 7. Prepare and submit for Owner's Representative approval of detailed Shop Drawings and samples of work included herein and do not proceed with any work for which such Shop Drawings or samples are required until they have been approved. Shop Drawings shall indicate kinds of materials, sizes of gauges and shapes of members, detail of pieces worked out, due reference to their position and execution of work in connection with other trades.

8. Approval of Shop Drawings shall not relieve Contractor from responsibility for correctness of details and dimensions, or proper fabrication and installation of work, nor from obligation to provide all materials and labor required by the Contract even though they are incorrectly shown or not indicated on approved Shop Drawings.
- D. Mill Test Reports: Signed by manufacturer certifying that the product complies with specified requirements. Indicate structural strength, destructive test analysis and non-destructive test analysis, and chemical analysis from the aluminum used.
- E. Welders Certificates: Certify welders employed on the Work, verifying AWS qualification within the previous 12 months.
- F. Samples: Submit representative samples of materials and finished products as may be requested by the Engineer. Engineer's review will be for color, texture, style, and finish only. All other requirements for the work are the Contractor's responsibility.
- G. Items manufactured by other firms may be submitted and will be accepted if it can be shown in a point by point comparison prepared by the CONTRACTOR that they are equal to the items specified. The Owner's Representative shall be sole judge as to equalities.

#### 1.04 QUALITY ASSURANCE

- A. Fabricate aluminum members in accordance with Aluminum Design Manual "Specification for Aluminum Structures".
- B. Welding: Comply with AWS D1.2, "Structural Welding Code-Aluminum" for procedures, tolerances, appearance and quality.
- C. Qualifications for Welding Work: Quality welding processes and welding operators in accordance with AWS "Standard Qualification Procedure".
  1. All welders shall be certified, qualified welders in accordance with the requirements of the American Welding Society, for the particular materials and methods being used. The welder's certification papers shall be available on the first trip by the inspector.
  2. All welding materials and methods used for fabrication and erection shall be in accordance with the requirements of the American Welding Society.
- D. Field Measurements: Take field measurements prior to preparation of shop drawings and fabrication, where possible, to ensure proper fitting of the work. However, do not delay job progress; allow for trimming and fitting wherever the taking of field measurements before fabrication might delay the work.
- E. Shop Assembly: Preassemble items in the shop to the greatest extent possible, so as to minimize field splicing and assembly of units at the project site. Disassemble units only to the extent necessary for shipping and handling limitations. Clearly mark units for re-assembly and coordinated installations.

#### 1.05 DELIVERY, STORAGE, AND HANDLING

- A. Store materials to permit easy access for inspection and identification. Keep aluminum members off the ground and spaced by using pallets, dunnage, or other supports and spacers. Protect aluminum members and packaged materials from erosion and deterioration.
  1. Store fasteners in a protected place. Clean and re-lubricate bolts and nuts that become dry or rusty before use.

2. Do not store materials on structure in a manner that might cause deterioration, damage, or overload to members or supporting structures. Repair or replace damaged materials or structures as directed.

## PART 2 - PRODUCTS

### 2.01 MATERIALS

#### A. Grating, Beams & Accessories:

1. Rolled and Extruded Members: Alloy and temper 6016-T6
2. Aluminum Tubing: Alloy and temper 6016-T6.
3. Bolts and Nuts: alloy 6061-T6
4. Bar Grating: Alloy 6063-T6

#### B. Welding Materials:

1. Filler Metals: AWS D1.2.
2. Electrodes and Equipment Settings: As recommended by the filler metal manufacturer for the position, thickness and conditions of use.
3. Furnish written verification to the University that filler metal is appropriate to the materials and welding process

#### C. Grout:

1. Non-shrink, non-metallic aggregate type, complying with ASTM C 1107/C 1107M and capable of developing a minimum compressive strength of 7,000 psi at 28 days.

#### D. Aluminum Ladder:

1. Vertical ladders shall be as manufactured by Washington Aluminum Company, Inc. or approved equal. Ladders shall have stringers, square non slip serrated rungs. Ladders shall be aluminum alloy 6061-T6.
2. All necessary anchor bolts will be stainless steel and furnished with ladder. All material will have a standard mill finish. The portion of the ladder in contact with the concrete shall have a heavy shop coat of bituminous paint. The standoff brackets shall have minimum 2 square inches in contact with concrete.
3. Ladder rungs shall be spaced 12" on center, and 1'4" in width. The ladder shall be installed 7 inches off the wall. The lowest rung of the ladder shall be minimum 12" off the ground with standoff brackets.
4. Stringers shall be hole punched to allow snug fit to ends of ladder rungs. Rungs shall rest on strings and be welded to stringers. Welding of rungs to flat surface of stringers is not allowed.
5. Ladder rungs shall have non-slip serrations which are extruded. Knurlings of rungs is not allowed.
6. Preassemble ladder and check the operation of all components prior to incorporating this item into the work.
7. Store and handle the ladder assembly so as to avoid damage to the ladder or any accessory assemblies.
8. Ladders are to be installed in such a way that they shall conform to and support loads required by the current regulations published by the Occupational Safety and Health Administration.



E. Aluminum Handrail

1. All aluminum handrails shall be as shown on the drawings and shall conform to the design and installation specifications that meet all standards as set by OSHA for handrailing. All handrails shall be fabricated using extruded aluminum pipe, 1-1/2" schedule 40 pipe size (posts schedule 80) having a circumferentially brushed satin 0.7 mil. anodized finish, and aluminum fittings machined from solid extruded aluminum shapes of the same alloy and finished as the pipe. All blind rivets and self-tapping screws shall be 305 stainless steel. Wherever posts are mounted other than in concrete or side mounted, cast or machined aluminum base flanges shall be used. All railings, wherever possible, shall be fabricated using a continuously formed top rail to minimize the number of splice joints. Railing shall in all respects conform to the design details as shown on the drawings, and shall be installed in accordance with the installation details of the manufacturer.
2. All pipe cuts shall be square and accurate for minimum joint-gap. Cuts shall be clean and straight, free of "chamfer" from deburring, burrs and nicks. All holes shall be drilled and countersunk the proper size, as required for a tight, flush fit of rivets. Where protection is applied for prevention of dissimilar materials electrolysis, care shall be taken that none of the protective material is visible when assembly is completed. All posts grouted in concrete must have one weep hole 15/64" diameter drill, 1/2" to 3/4" above post collar in the plane of the rail.
3. Post spacing should not exceed 4'-0" on center. All attachment brackets shall be spaced as specified. Posts shall be a single unspliced pipe length. Lower rails shall be a single, unspliced length between posts. Top rails shall be continuous whenever possible, and a single, unspliced length shall, where possible, be attached to a minimum of three posts. All fasteners shall be tightened so that completed railing is rigid and completely free of play at all joints and attachments. After drilling 15/64" diameter hole, the #17 screws are to be self-tapped into the hole and seated firmly with a torque of approximately 100 in lbs.
4. The contractor shall use all precautions necessary to protect the finish from scratches, nicks, gouges, dents, etc., during storage, assembly, and installation. Insofar as possible, the plastic film shall be left intact on the pipe until inspections and acceptance by the OWNER. Rail should be stored in an area protected from the elements prior to installation.
5. Surfaces of railing in contact with other metals and concrete surfaces should be painted with a coat of bituminous paint to prevent contact between the two surfaces. All components shall be installed so that no drainage over them has previously been contaminated from copper, caustics or alkalis.
6. For all exterior installations, provisions must be made to drain water from the railing system to prevent damage caused by freezing of entrapped water. Likewise, for interior installations subject to high humidity, provision must be made to drain water from the railing system. When posts are mounted into concrete or when bends or elbows occur at low points, weep holes of 15/64" minimum diameter must be drilled at the lowest possible elevations.
7. Railing system shall be Wesrail, as manufactured by Moultrie Manufacturing Company, or equal.

2.02 FABRICATION

- A. Fabricate aluminum members in accordance with the approved shop drawings. Shop fabricate to the greatest extent possible.
- B. Dimensional Tolerances:
  1. Overall length of members with both ends milled shall vary by not more than 1/32-inch

2. Overall length of members without milled ends shall vary by not more than 1/16-inch for lengths less than .30 feet.
- C. The Contractor shall provide shims, washers, anchors, etc. as necessary to achieve a well-constructed installation.

### PART 3 - EXECUTION

#### 3.01 ERECTION

- A. Allow for erection loads, and provide sufficient temporary bracing to maintain structure in safe condition, plumb, and in true alignment until completion of erection and installation of permanent bracing.
- B. Field weld components indicated on shop drawings.
- C. Verify that field conditions are acceptable and are ready for erection.
- D. Do not field cut or alter structural members without the approval of the Architect/Engineer

#### 3.02 FIELD QUALITY CONTROL

- A. An independent testing agency will perform field quality control tests. Inspection services shall conform to Section 1705.2 of the 2018 IBC Code
- B. In addition to visual inspection, field-welded connections shall be tested and inspected according to the requirements of AWS D1.2
- C. Correct deficiencies in work that inspections indicate does not comply with the specified requirements.

**END OF SECTION**

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**SECTION 10600**  
**SAFETY EQUIPMENT**

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**10600.01 GENERAL**

A. Description

This section includes the requirements for providing climbing safety devices for ladders, where required by OSHA regulations, 29 CFR Parts 1910, and first aid kit to the extent indicated in the Contract Documents.

B. Submittals

1. Submit certification that climbing safety devices comply with all applicable sections of OSHA Regulation 1910.27 (requirement for fixed ladders).

C. Delivery, Handling and Storage

1. Identify, and match mark if applicable, all materials, items and fabrications for installation and field assembly.
2. Whenever practicable, deliver items to job site as complete units, ready for installation or erection, with all anchors, hangers, fasteners and miscellaneous metal items required for installation.

- D. Provide adequate storage facilities at the job site for the protection and storage of all delivered materials. Handle and store in such a manner as to not damage factory finishes. Repair damaged finishes at no cost to the Owner.

**10600.02 MATERIALS**

A. Materials

1. Ladder Climbing Safety Device

All materials of construction for climbing safety devices shall be new and of the highest grade. All materials shall be free from defect prior to installation. Ladder safety rail system shall be Railok Safety Rail by Research & Trading Corporation, Saf-T-Climb by Norton, Co., TS Fall Prevention System by TS Products Incorporated or equal.

2. Rail Extension

- a. Provide a removable rail extension complete with all required fittings and connectors.
- b. Rail extension system materials shall be aluminum.
- c. A mandrel shall be permanently affixed to the ladder supported climbing rail. The rail extension shall engage the mandrel for a minimum of 6-inches.

- d. When in place the extension rail shall extend 3 feet 6 inches above top ladder access level.

### 3. Rail Sleeve

- a. Rail sleeves shall be designed to move freely both up and down on the rail. A maximum of 5 lbs. upward pull shall be exerted to slide the sleeve over the rail. Stainless steel roller bearings shall be mounted integrally with the sleeve where sleeve contacts the rail during ascent.
- b. Sleeve shall lock positively to the rail by any downward force of greater than 50 pounds in not more than 6 inches of fall.
- c. Sleeve shall have a snap hook device made of drop forged steel proof load tested to 5,000 pounds. Snap hook shall be permanently connected to the sleeve.
- d. Two rail sleeves shall be furnished.

### 4. Safety Belt

- a. Safety belt shall be a Class 1 body belt conforming to ANSI A10.14.
- b. Belt shall be constructed of a polyester or nylon webbing attached to a 3" body pad. A 3/8" D-ring located at the 10 o'clock position shall be constructed of a drop forged steel capable of withstanding a 5,000 pound force without failure.
- c. Two safety belts shall be furnished.

## **10600.03 EXECUTION**

### A. Installation

- 1. Ladder Climbing Safety Device
- 2. Rail system shall be installed in accordance with manufacturer's recommendations.

Rail shall be fastened to the ladder at the top, bottom and at 4 foot intervals, maximum. Rail shall be located along outside vertical center of all ladders.

### B. Testing

- 1. Ladder Climbing Safety Device (when required by safety regulations)
- 2. Each sleeve shall be tested to ensure positive locking and strength under a 500 pound static load. Dynamic test of each sleeve shall subject the sleeve to a force of 300 pounds falling through 24 inches.
- 3. Replacement of safety devices not fulfilling test requirements shall be at no cost to the Owner.
- 4. The Contractor shall furnish the Engineer certification that all safety equipment has been tested as described hereinbefore.

**END OF SECTION**

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**SECTION 10700  
SYNTHETIC TURF COVER**

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**10600.01 GENERAL**

A. Description

This section includes the requirements for furnishing, delivery, installation and warranty of a complete synthetic turf system including under field drainage, field turf, field markings and resilient infill material.

B. Submittals

1. Submit the exact product name/description as well as the name and location of the manufacturers and suppliers of each component. Manufacturers and suppliers must not be changed after the contract is awarded unless approved by the Owner in writing.
2. Submit two (2) samples, 12"x12" minimum size.
3. Product Literature: Submit two (2) copies of manufacturer's recommended installation and maintenance information, including any technical criteria for evaluation of the installed product. Descriptions of all equipment recommended for the maintenance and repair of turf product, as well as a list of any activities not recommended relative to the warranty.
4. A letter and specification sheet certifying that the products of this section meet or exceed specified requirements.
5. Certified copies of independent (third-party) laboratory reports on ASTM tests as follows:
  - a. Pile Height, Face Width & Total Fabric Weight, ASTM D418 or D5848
  - b. Primary & Secondary Backing Weights, ASTM D418 or D5848
  - c. Tuft Bind, ASTM D1335
  - d. Grab Tear Strength, ASTM D1682 or D5034
6. ASTM test submittals may vary by no more than ¼" and 6 oz. of the specified product to bid.
7. Provide a complete sample copy of all warranty documentation.
8. Project Record Documents: Record actual locations of seams or other pertinent information.

C. Installer Qualifications

1. Contractor shall provide competent workmen skilled in this type of synthetic grass installation. All technicians must have installed tall pile synthetic turf.
2. Remove defective Work, whether the result of poor workmanship, defective products or damage, which has been rejected by the Owner as unacceptable. Replace defective work at no cost to the Owner.

D. Warranty

- 1. The Contractor shall provide a minimum ten (10) year, 3rd party insured warranty policy by the manufacturer, against defects in materials and workmanship. Defects shall include, but not be limited to ultraviolet ray fading, degradation, or excessive wear of fiber.
- 2. Warranty shall be for full replacement of any damaged product within the warranty period. Warranty shall be comprehensive and sufficient to replace entire coverage if necessary.
- 3. Warranty shall become effective from the date of substantial completion.
- 4. The Warranty shall contain no usage limits for warranted area.
- 5. Supply Warranty Insurance Certificate with complete information on contacting the Insurance Carrier should a claim need to be made. Warranty insurance policy shall have the Owner listed as insured.

**10600.02 MATERIALS**

A. Materials

Synthetic turf shall be TFD 65 Special by Turf Factory or approved equal. TFD 65 Special shall use a tri-color yarn system, consisting of field green and olive green grass strands coupled with secondary tan thatch layer. TFD 65 Special shall be manufactured with a standard perforated dual polyurethane backing to allow for proper water drainage.

Color: Fescue | Field Green | Olive | Tan Thatch

Pile Height: 1 1/2"

Total Yarn Weight: 65 oz. per sq. yd.

Primary Yarn Fiber: Polyethylene

Secondary Yarn Fiber: Polyethylene Thatch | Tan

Primary Backing: K-29 | 7 oz

Secondary Backing: 24 oz Polyurethane

Perforations: Yes

Total Product Weight: 96 oz per sq yd. | 10.6 oz per sq ft.

Machine Gauge: 1/2"

Standard Width: 15 ft.

Measurements: Priced per sq. ft | Sold in Standard Width by Custom Length

Pricing: Per Sq. Ft.

Warranty: 10 Year

### **10600.03 EXECUTION**

#### **A. Installation**

1. Installation of the synthetic turf system is to comply with the manufacturer's recommendations, requirements and the reviewed and approved shop drawings.
2. Perform all work in strict accordance with the Contract Documents and the manufacturer's specifications and instructions. Only those skilled technicians proposed in the bid phase are to be assigned to this project by the Contractor.
3. All products and equipment are to be from sources approved by the authorized turf manufacturer and conform to the specifications.

#### **B. Product Delivery, Storage and Handling**

1. Deliver products to site in original containers and wrappers.
2. Store products in a location and in a position that protects them from crush damage or any other defects.
3. Handle and store (on and off site) all materials safely to ensure their physical properties are not adversely affected and that they are not subject to vandalism or damage.

#### **C. Cleaning and Completion**

1. Protect all installed work from other construction activities as installation progresses.
2. The Contractor shall keep the area clean throughout the construction period and free from the installation process.
3. Upon completion of the installation, thoroughly clean surfaces and site of all refuse resulting from the installation process, including track surfaces.
4. Any damage to existing fixtures or facilities resulting from the installation of the synthetic turf system shall be repaired to original condition at the Contractor's expense prior to Substantial Completion and commencement of the Warranty Period.
5. A deficiency list will be produced by the Engineer at the conclusion of the project. All installation project deficiencies not in dispute must be remedied by the Contractor prior to the issuance of a certificate of Substantial Completion.

**END OF SECTION**

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**SECTION 15000  
LAUNDER COVERS**

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**15000.01 GENERAL**

A. Description

The launder cover is an advanced cover system designed to inhibit the growth of algae on the launder troughs and weirs of clarifier tanks by minimizing incident sunlight on these surfaces, while minimizing effluent TSS by keeping leaves and other airborne debris from entering the launder.

B. Shop Drawings

- i. Manufacturer's catalog information, descriptive literature, specifications, and identification of materials of construction, including resins and glass fiber content and layout for FRP constructions.
- ii. Detailed drawings showing equipment fabrication, dimensions, method of attachment including number, locations and size of fasteners and weights of fabrications.
- iii. Manufacturer's recommended cover dimensions, mounting configuration and location for each application.

C. Quality Control Submittals

- i. Prior to installing anchors for trough cover, contractor must scan existing concrete structure to accurately locate existing post tensioning cables. All new anchors shall be located to avoid the existing cables. The contractor shall prepare shop drawings showing all new anchor locations plus the existing post tensioning cables found.
- ii. Manufacturer's Certificate of Compliance.
- iii. Special shipping, storage and protection and handling instructions.
- iv. Manufacturer's written/printed installation instructions.
- v. A list of ten installations of comparable size in operation for at least five years.
- vi. Certify that the cover meets local building code specifications for wind load, including uplift and deflection.
- vii. Certified test reports of the physical and mechanical properties of the product. Each panel shall have the following minimum physical properties:

<u>Property</u>	<u>Test</u>	<u>Value</u>
Tensile Strength	ASTM D-638	26000 psi
Flexural Strength	ASTM D-790	30,000 psi
Flexural Modulus	ASTM D-790	1.9 x 10 <sup>6</sup> psi
Barcol Hardness	ASTM D-2853	50
Notched Izod	ASTM D-256	20 ft-lbs/in
Water Absorption	ASTM D-570	0.25%(MAX)



#### D. Warranty

- i. Manufacturer shall expressly warrant the Launder Cover System to be free of defects in materials and workmanship for a period of ten (10) years from the date of installation, exclusive of misuse, negligence, or accident on the part of the installation contractors or owner.

#### E. Coordination

- i. Manufacturer shall coordinate the Launder Cover design and installation requirements with the clarifier mechanism, scum box and launder effluent channel configurations.
- ii. Prior to installing anchors for trough cover, contractor must scan existing concrete structure to accurately locate existing post tensioning cables. All new anchors shall be located to avoid the existing cables. The contractor shall prepare shop drawings showing all new anchor locations plus the existing post tensioning cables found.

### **15000.02 MATERIALS**

#### A. Manufacturers

- i. Materials, equipment, and components in this section shall be the products of:

Enduro Composites Inc., 16602 Central Green Boulevard, Houston, TX 77032 or approved equal.

#### B. Design

- i. The Launder Cover shall consist of a system of molded fiberglass panels that come together to form a continuous cover over the launder trough and weir within the treatment tank. The Cover shall be designed and manufactured to inhibit incident sunlight from striking the surfaces of the launder and weir. Each Cover section shall be molded of UV-protected fiberglass and shall be opaque to sunlight. Individual sections shall be a minimum of four feet in length and curved to follow the curvature of the tank. The Cover shall extend over the trough and weir as far as possible and may extend to a point immediately outside the scum baffle ring to avoid interference with the sweep arm. The Cover shall be designed such that adjacent panels fit together properly and the completed Cover, when installed, forms a rigid structure, and has a well-engineered and professional appearance.
- ii. Provision shall be made to support the Cover in such a manner that the panels are held securely in place, with the panels' pivoting point to provide access to the launder and weir for inspection and maintenance. Neither the Cover nor the means used to support it shall interfere with effluent flow over the weir or within the trough. Cover pivoting / support brackets shall not impede personnel from entering and traversing the launder. Cover supports that cantilever from the outer effluent launder wall without support at the weir wall are unacceptable.
- iii. Launder cover panels shall have a cross-sectional ridge over the width of the launder trough in the direction of the flow to strengthen the panel and minimize possible

- deflections against snow loads. Additional reinforcement against snow loads shall be incorporated into the design by means of stiffening flanges fastened radially to the cover panel's underside.
- iv. The Cover shall be designed to open away from the operator and toward the center of the tank. Each Cover segment shall consist of a single Cover Section fastened to the top or side of the weir wall using two 316 S.S. (2) pivoting support brackets. The pivoting support brackets shall provide a rigid mount for the Cover Sections and ensure the proper fixed spacing between them. Cover systems comprised of cover sections with multiple parts connected by piano hinges are unacceptable.
  - v. The Launder Cover sections shall be designed to open independently.
  - vi. Provision shall be made to secure the Cover in the closed position for safety and security. This is accomplished by means of an easily operated, spring-loaded S.S. latch mechanism that secures the Launder Cover panels in the closed position. Handles or lift rings may also be required for some panels. All hardware and accessories shall be 316 S.S. A means of limiting the travel of the Launder Cover sections, in the form of a restraint cable or tether, shall also be provided to protect against damage. Covers with inspection hatches or cleanout doors are unacceptable.
  - vii. Where the circumference of the trough is interrupted by a bridge-support or another obstacle, a fixed panel(s) shall be installed over the trough beneath the support such that the surface of the Cover is continuous around the entire tank. Alternatively, vertical panels may be installed on both sides of the bridge supports to block out sunlight.
  - viii. The Cover system shall be designed to withstand common wind and snow loads but the entire Cover shall not be intended as a "walk-on" Cover designed to support the weight of plant personnel. Adequate stiffeners shall be integral to each panel, but panels reinforced with balsa or foam cores are not acceptable except where a single or double length reinforced walk-on section is used for safe entry to the launder.
  - ix. Each cover panel's weight shall not supersede 55 lbs. max.

### C. Materials

- i. Each Cover panel shall be molded of fiberglass, reinforced plastics. The resins and fiberglass reinforcing materials shall be consistent with the environmental conditions and structural requirements of the application.
- ii. The resin shall be an industrial quality, isophthalic polyester resin with UV suppression additives, or equivalent. The resin shall be pigmented to ensure that the resulting part is opaque. The glass reinforcement shall be continuous fiberglass mats/roving. Multiple continuous panels of woven roving may be applicable for extra-large panels. Additional reinforcement in the form of stiffening ribs shall be added when necessary. The glass content of the finished laminate shall be not less than 35% by weight (ASTM D2584-18). The nominal thickness of each panel shall be 1/4 inch. The laminate shall consist of resin-rich glossy surface finish. The laminations shall be dense and free of voids, dry spots, cracks, or crazes. All factory-trimmed

edges shall be sanded and sealed. The finished laminate shall have a smooth, even appearance.

- iii. Fasteners, handles, hinge, and latches shall be stainless steel. The weir wall mounting brackets shall be stainless steel, FRP or a combination of the two. The latch/handle shall be spring-loaded, where the mechanism shall have a positive detent positioned to indicate the closed/locked position of the handle. The spring-loaded latch is activated by pressing down on the handle and turning it.
- iv. The tether or restraint cable shall consist of a length of stainless-steel cable secured to the tank wall and the hinged Cover Section by means of stainless-steel eyebolts. The length of the cable is selected to limit the travel of the Cover.

#### D. Execution

- i. The Cover sections shall be mounted to the weir wall on 316 stainless steel brackets. The free end of each Cover panel shall be supported at the outer tank wall by an FRP support flange that attaches to the entire periphery of the tank.
- ii. The installation contractor shall install the Cover in accordance with the manufacturing drawings and manufacturer's recommendations. Field cutting of panels shall be allowed to complete the structure and accommodate in-tank obstructions. All cut ends shall be dressed as per the manufacturer's recommendations.
- iii. All hardware, including fasteners and brackets, required for the installation shall be 316 stainless steel and shall be supplied by the cover manufacturer. The support flange and weir wall brackets are installed using 3/8" x 3-3/4" expansion anchors with flat washers, lock washers and hex nuts.

**END OF SECTION**



To: The Honorable Mayor and Town Council  
 Subject: American Rescue Plan (ARP) Priority Projects  
 Date: August 26, 2022

From: Holly Wahl, Town Administrator

**I. BACKGROUND:**

The Town Council submitted several priority projects as a starting point to allocate American Rescue Plan (ARPA) funding in the Town. The Town Council elected to reimburse the costs incurred for police and fire protection for the Town as part of the ARPA funding. Utilizing funding received for expenses that were already budgeted to be paid provides an opportunity to use the funding for other priority projects.

**II. SUMMARY OF THE PRIORITY PROJECTS:** The following is a list of projects submitted by the Mayor and Town Council as priority projects for review and further conversations of Town Councils desired next steps.

Category	Project	Estimated Expense	Span of Time	Rating on a Scale of importance 1 being the least important and 10 being the most important
<b>Emergency Preparedness</b>	Establish the equipment necessary for the Chesapeake Beach Water Park to serve as a Community Emergency Location. This will require a generator and heat for the showers. A location that is within proximity to the Northeast Community Center which is already set up to serve as an emergency location for citizens.	For discussion during the work session	1-2 year	
<b>Public Health – Opioid</b>	Create a fund that is set up to offset the costs of medicated assistance for opioid use disorder for Town residents.	Variable	?	
<b>Sustainability</b>	Coastal Resiliency planning	Current grant funding of \$75,000 to	<i>ONGOING</i>	



		identify projects' potential for future projects are expansive (Grant Eligible)		
<b>Sustainability</b>	Japanese Knotweed (invasive) Removal	\$150,000-\$200,000	2 years	
<b>Sustainability</b>	Create a Carbon Zero Town by 2030 <ul style="list-style-type: none"> <li>a. Conduct a carbon/energy audit</li> <li>b. Develop a plan to implement green energy steps to accomplish solar, wind, geothermal, offsets, transition to Town electric vehicles</li> </ul>	?	8 years	
<b>Sustainability</b>	Establish a septic tank relief fund to convert to public sewer. This fund will offset/waive some conversion costs to reduce pollution to the Bay	Approximately \$10,000-\$30,000 per home converted (Grant Eligible)	5-10 years	
<b>Broadband Connectivity</b>	Provide affordable, wired, high-speed (>=100 Mbps) broadband options for all residents, preferably fiber optic.	Approximately \$150/month per household	5 years	
<b>Walkability</b>	Install a connecting sidewalk from CB to NB along the east side of RT 261 between the firehouse and Seagate.	Step 1 Feasibility Study Step 2 Execution SHA Coordination (Grant Eligible)	3-5 years	
<b>Parks and Recreation</b>	Complete a feasibility study of how Kellam's can be used to promote open space, outdoor activity, and community resource	Building upon existing plans previously provided by the Town Engineer, RK&K	6-9 months	



		Scope of work to be defined. Cost unknown. (Grant eligible)		
<b>Parks and Recreation</b>	Acquire the lot south of Bayfront Park/	The 2022 Tax Value is estimated at just over \$1,000,000	3 months	
<b>Parks and Recreation</b>	Investment in Kellam's to emphasize outdoor activity, community event center	A current concept plan provides further recreational areas for children and adults and expanded activity courts. (Grant eligible)	\$2,000,000	



To: The Honorable Mayor and Town Council

From: Holly Wahl, Town Administrator

Subject: Richfield Station Water Tower Pump

**Date: August 26, 2022**

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## **I. BACKGROUND:**

The Town of Chesapeake Beach utilizes pumps in the wells to supply water to the water tower. The age of the current equipment that requires repair or replacement is 18 years old. The Town encountered a power outage where we believe there was an electrical surge that damaged the pump. The Town contacted BGE regarding the suspicion that there was an electrical surge causing the pump to go offline. Once we are able to pull the pump we can determine if that was the case.

## **II. SCOPE OF WORK:**

The scope of work would be as follows:

- a. Pull existing pump and inspect for repairs and replacement
- b. Camera the existing well housing to inspect the well casing to ensure no additional work needs to take place.

## **III. RECOMMENDATION:**

Town staff will bring forward recommendations for this emergency expenditure to either repair or replace the pump at the upcoming Town Council meeting. We expect the expenditure to be approximately \$35,000.



To: The Honorable Mayor and Town Council

From: Holly Wahl, Town Administrator

Subject: Public Works Multi-purpose Vehicle Purchase

**Date: August 26, 2022**

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**I. BACKGROUND:**

The Town Council budgeted \$80,000 for the purchase of a multipurpose vehicle for Public Works in the FY23 budget. This vehicle provides multiple uses for Public Works staff.

**II. PUBLIC WORKS NEEDS:**

Public Works initially budgeted a vehicle that would be used for general use such as a snowplow and utility use. Due to a recent water main break in Richfield Station, it is recognized that staff needs a vehicle that will also have the ability to hold a trench box for staff safety. A trench box is required to safely access water lines at depths greater than 4 feet. Due to this need, we expect the price of this vehicle to go from \$80,000 to \$135,000 for the General Fund Capital Improvements line item.

**III. RECOMMENDATION:**

Town Council to consider authorizing Town staff to move forward to make the necessary purchase of a multi-purpose vehicle in the amount not to exceed \$135,000 from the General Fund Capital Improvements line item.





To: The Honorable Mayor and Town Council

From: Holly Wahl, Town Administrator

Subject: RT 260 replacement clock

Date: August 26, 2022

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## **I. BACKGROUND:**

The clock along RT 260 is no longer working and requires repair or replacement.

## **II. REPAIRS NEEDED TO THE CLOCK:**

The cost to make the mechanical restoration of the 4U Georgetown two-dial post clock would be \$11,403 +, this includes freight and installation. There would be additional costs for a new timepiece, Master Clock Controller, and replacement fluorescent tube illumination with LED. The access opening at the bottom of the post would have to be enlarged and a new access door provided. Essentially, all the internals of the clock would be new.

In comparison, the estimated price for a new Georgetown clock would be \$20,350. An eagle at the top as the current clock has would add additional costs.





### **III. RECOMMENDATION:**

The town staff is currently collecting several pricing options to present to Town Council at the work session. The town staff plans to make a recommendation at the upcoming September town meeting for this unbudgeted expenditure. Costs would be recommended to come from the General Fund Capital Expenditure line item.