



1600 Battle Creek Road, Morrow, GA 30260

W.B. Casey WRRF Secondary Launder Covers

ADDENDUM # 1

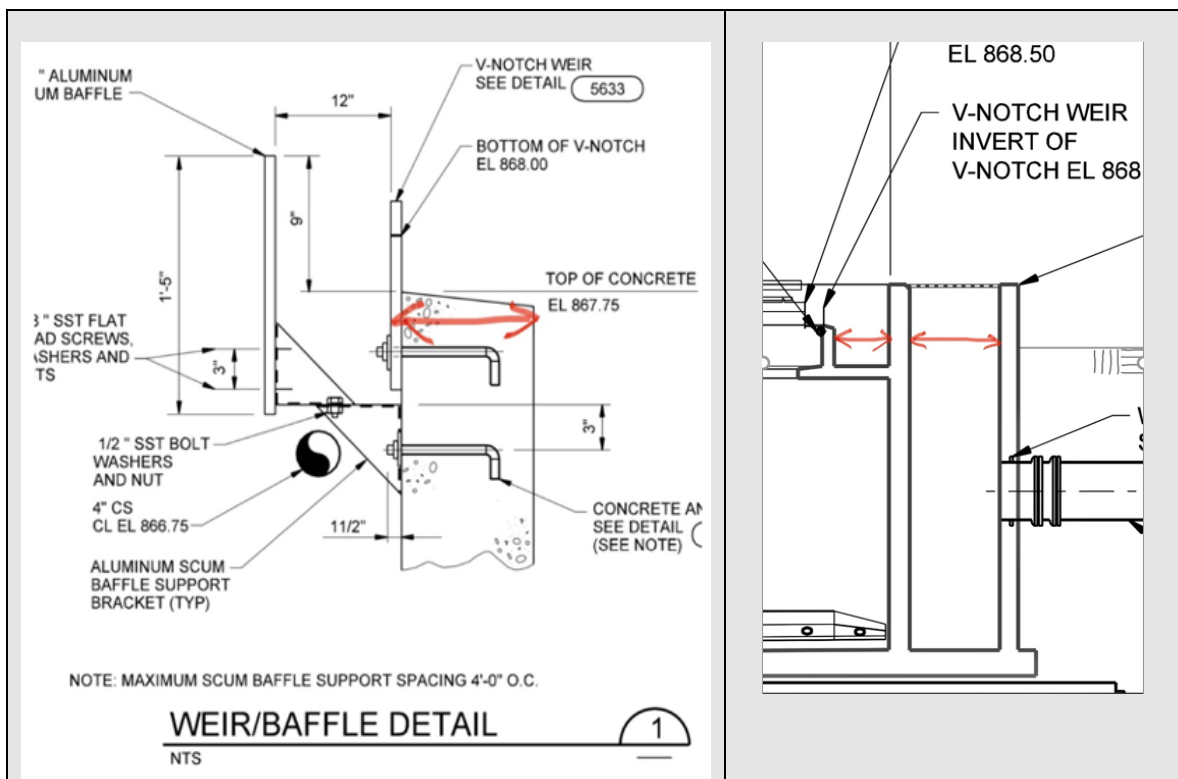
DATE	Thursday, March 31, 2022
BID NUMBER	2022-WR-06
BID OPENING DATE	Tuesday, April 5, 2022, at 2:00 p.m. (local time)


ADDENDUM MUST BE SIGNED AND INCLUDED IN YOUR RESPONSE TO THE RFB.

QUESTIONS:

1. Is it possible to provide us with a detailed drawing of the Launder, Scum Baffle, and V Notch Weir area for the Clarifier? The dimensions that we need are below. The ??? indicate those dimensions not present in the drawings provided:
 - i. Inside tank diam (160-ft)
 - ii. Outer wall elevation (870)
 - iii. V-notch weir diam (???)
 - iv. Top of V-notch weir elevation (???)
 - v. Bottom of V-notch weir elevation (868)
 - vi. Elevation of V-Notch Weir Base/bottom (normally concrete surface) (867.75)
 - vii. Scum baffle diam (???)
 - viii. Launder width (???)

I have blown up the images and marked the dimensions in red. It is the inside width of the collection trough and the thickness of the wall that has the V Notch Weir attached:



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Answer: We do not have detailed drawings of those items in question.


- We would like to know more about the construction and installation requirements that are not present in the bid package. We would also like to suggest that the following be used to further define the bid specifications as there are many variables to installing the covers and ensuring that you get the best product for your application as well as a proper installation for that product. The package as of now seems to only indicate certain performance factors. We look forward to bidding this project and want to see you have a successful improvement to your plant. *Please see attachment/suggestions provided with this question on pages 4-6 of this Addendum.***

Answer: We are open to all construction and installation requirements of various materials of launder covers. We are requiring all specification of parts and installation to be specific to each material. We will include information provided for the fiberglass reinforced plastic in the bid; however, it will only apply if that is the material selected.

- Could you please email me a copy of the plan holders list for the above-named project?**

Answer: See below:

Company	Point Of Contact	Phone	Email
Construct Connect	June Calago	323.602.5079 X 51076	June.Calago@ConstructConnect.com
Cornerstone Mechanical	Andy Bramlett	(770) 742-3321	andy@cornerstone-mechanical.com
Environmental Instrumentation and Calibration Inc.	Josh Godbee	(478)-278-2659	joshgodbee@eicworks.com
IHC Construction Companies, LLC		404-497-7619	jarevalo@ihconstruction.com ; estimatingse@ihconstruction.com
Industrial and Environmental Concepts-	Michael Lever	952-829-0731	mlever@ieccovers.com
NEFCO		561-775-9303	sales@nefco.us
Principle Environmental Inc.	Mary Watson	770.952.9444	marywatson@principleenvironmental.com
Southern Water Technologies - Representing Warminster Fiberglass	Bert Gardner	770-356-8722	bert@southernwater.com
Templeton & Associates Engineering Sales	Jordan Longoria	470-345-4012	Jordan@templeton-associates.com
Warminster Fiberglass-	Bert Gardner	770-356-8722	bert@southernwater.com
WesTech-	Clint Curl	770-509-1808	ccurl@tdhco.com

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4. I would like a list of proposed bidders when available.

Answer: See list provided above.

5. What is the estimated construction budget?

Answer: This information is not available at this time.

<i>Acknowledgment of receipt of this addendum must be signed and included in your bid response.</i>	
COMPANY NAME	
SIGNATURE	
DATE	

FIBERGLASS REINFORCED PLASTIC (FRP) LAUNDER COVERS

GENERAL

SUMMARY

- A. This Section includes fiberglass reinforced plastic (FRP) launder covers for clarified basins and other applications as shown on the Contract Drawings.

QUALITY ASSURANCE

- A. The material covered by these specifications shall be furnished by a reputable and qualified manufacturer of proven ability that is regularly engaged in the manufacture and installation of FRP products.
- B. Fabricator shall be experienced in successfully producing FRP products specified for this project, with sufficient production capacity to produce required units without causing delay in the work.
- C. Fabricator shall provide a list of five (5) installations of comparable size in operation for at least three (3) years.

SUBMITTALS

- A. The following shall be submitted in accordance with the General and Special Provisions.
 - 1. Shop Drawings
 - a. Dimensions.
 - b. Job specific layout.
 - c. Sectional assembly.
 - d. Location and identification mark.
 - e. Accessories, attachments, transition pieces.
 - f. Connection details.
 - 2. Manufacturer's catalog data showing:
 - a. Dimensions, spacing, and construction details
 - b. Materials of construction.
 - c. Description.
 - 3. Certificate
 - a. Submit Manufacturer's certification that all materials furnished are in compliance with the applicable requirements of this specification.
 - 4. Manufacturer's Instructions
 - b. Submit complete information and instructions relating to the storage, handling, installation, and inspection of all equipment related to this Section

SHIPPING AND STORAGE INSTRUCTIONS

- A. All FRP components shall be shop fabricated and assembled into the largest practical size suitable for transporting.
- B. The parts and assemblies that are shipped unassembled shall be packaged and tagged in a manner that will protect the equipment from damage and facilitate the final assembly in the field.
- C. All FRP materials shall be stored before, during, and after shipment in a manner to prevent cracking, twisting, bending, breaking, chipping or damage of any kind to the materials.

PRODUCTS

MANUFACTURERS

- A. The following manufacturer(s) is/are named to establish a standard of quality necessary for the Project:
 - 1. MFG Construction and Water Products Company, 55 Fourth Avenue, Union City, Pennsylvania 16438.
 - 2. Fiberglass Fabricators, Smithfield, RI
- B. Manufacturer and Supplier of launder covers shall be NSF 61 Certified and listed on NSF website as a certified manufacturer.
 - 1. When a project is NSF61 Certified all drawings and shipping documents shall be stamped with the NSF61 logo.
- C. Manufacturer and supplier to supply a performance bond.
- D. Manufacturer of products shall be ISO 9001 certified.
- E. All FRP products shall be manufactured entirely in the United States.
- F. Supplier of FRP material shall be the manufacturer of the FRP material.

DESIGN CRITERIA

- A. The Support applied downward vertical or gravity loadings
- B. Meet required snow load of 30 psf, wind load of 14 psf
- C. Covers supported off the top of the weir wall will not be permitted

MATERIALS

- A. The launder cover laminate shall meet the following minimum physical and mechanical requirements:

Table 1. Laminate Mechanical and Physical Properties Minimum

<u>Property</u>	<u>Test</u>	<u>Minimum Value</u>
Tensile Strength	ASTM D-638	18,500 psi
Flexural Strength	ASTM D-790	27,900 psi
Flexural Modulus	ASTM D-790	1,080,000 psi
Barcol Hardness	ASTM D-2853	40
Notched Izod	ASTM D-256	15.4 ft-lbs/in
Water Absorption	ASTM D-570	0.13%/»

- B. Resin - The resin shall be a commercial grade isophthalic polyester thermosetting resin, which has either been evaluated in a laminate, Of Which has been determined to be acceptable for use in a wastewater treatment plant environment.
- C. Fillers: The resin shall contain no fillers. Thixotropic agents for viscosity control are acceptable. Colorants which have been determined by at least five years previous service to be acceptable for the service condition are acceptable. The standard color for the launder cover shall be marine white or as per customer requirement. Ultraviolet stabilizers are required in all launder cover laminates. Catalysts, accelerators and/or promoters shall be added to provide complete cure of the laminate and must meet the physical properties as indicated in Section 2.3 Table 1.
- D. Ultraviolet Resistance - Ultraviolet resistance is required in all laminates exposed to ultraviolet light, whether it be in the form of pigmentation or ultraviolet absorbers.

- E. Reinforcement - E glass with silane finish.
- F. The content of the finished laminate shall be adequate to produce mechanical and physical properties conforming to Section 2.3, Table 1.
- G. Other Reinforcement - Additional reinforcement in the form of foam, balsa sheet or other reinforcement for high stress areas shall be completely encapsulated within the laminate. Care shall be taken to ensure that these areas of the launder cover laminate are not designated as attachment points or drilled for any purpose.
- H. Laminate Construction -
 - 1. 'A' surface shall be a gelcoat surface.
 - 2. Structural layers shall consist of plies of chopped strand mat with a maximum of 2 ounces per square foot. Adequate contact molding pressure ensures complete resin wet-out of glass fibers.
 - 3. 'B' surface shall be a gelcoat surface.
 - 4. Finished launder cover shall be a minimum of 25% fiber reinforced with a minimum thickness of not less than 1/4".
- I. Materials used in the manufacture of the FRP launder covers shall be new stock of the best quality and shall be free from all defects and imperfections that might affect the performance of the finished product.
- J. Color: Marine White
- K. Meet or exceed requirements of ANSI/AWWA F101 and ANSI/NSF 61 supply NSF labeled products and proof of certification

EXECUTION

STORAGE

- A. Should it be necessary to store product prior to installation, precautions should be taken to prevent cracking, twisting, warping, distortion, bending, breaking, chipping or damage of any kind to the materials.

INSTALLATION

- A. Install launder covers and supports in accordance with manufacturer's instructions and approved shop drawings.
- B. Field cutting of launder covers is allowed if necessary. All field cut edges and field drilled holes shall be sealed per the manufacturer's instructions.
- C. Ensure that launder covers and supports are installed plumb and true, free of warp or twist, within the tolerances specified by the manufacturer and as shown on the drawings.