D. H. GRIFFIN INFRASTRUCTURE, LLC

4716 Hilltop Road, Greensboro, North Carolina 27407

PROJECT AIS WAIVER REQUEST

NOTE: The referenced attachments with project diagrams, schedules, and supplier correspondence are in formats that do not meet the Federal accessibility requirements for publication on the Agency's website. Hence, these exhibits have been omitted from this waiver publication. They are available upon request by emailing CWSRFWaiver@epa.gov.

Date: 3-31-2020
To: Highfill Infrastructure Engineering, P.C.
Address: 380 Knollwood St., Suite 734
Winston Salem, NC 27103
Highfill Project No: WIN1702
Attn: Jake Lowe P.E.

Owner: City County Utilities, Winston-Salem NC
Contract: CS370882-01
Project: Idols Rd Regional Lift Station
Subject: Project Availability Waiver of American Iron and Steel Requirements for 12" Check Valves

Specification Section: 33 32 20-4

Dear Mr. Lowe,

We have encountered a problem with the domestic manufacture of the 12" Check Valves on this project. After waiting for 28 weeks the castings that the manufacture received from their supplier were deemed flawed and unusable. We have now been informed it will be an additional 22-24 weeks for new casting and valves to be fabricated and shipped to the project. When we were informed this information and realized we cannot afford to wait that long, as we don't have the available time in the project schedule, we requested the supplier to find out how quick he could get new check valves if we were allowed to use castings outside of the AIS requirements. The supplier informed us that he could have the valves to us in 4 weeks.

Per this information and in order to complete the project on schedule we request this waiver to use castings that were globally sourced to have these valves built. Please note this is an *availability request waiver* and not a *cost waiver request.*

The following supporting documentation is included for review:

- Description of foreign material
- Unit of measure, Quantity, Cost
- Time of delivery/availability
- Location of construction project
- Name and address of supplier
- Detailed justification for use of foreign material
- Attachments 1, 2, and 3 that are referenced

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Description of Foreign Material

12" Check Valves per the contract specifications, **(Specification and plan sheets for material is attached as attachment #1).**

Unit of Measure, Quantity, Cost

3-EA 12" Flanged Check Valve: [redacted] EA

Domestic Delivery / Availability

22-24 weeks **(Letter from supplier is attached for reference as attachment #2)**

Location of Project

7801 Idols Rd, Winston Salem, NC 27103

Name and Address of supplier

Danny Waldrop
Ferguson Waterworks
Sales
336-992-0140
Danny.waldrop@ferguson.com

Scott Oliver
704-844-1144
Scott.oliver@carotek.com

[redacted]

A detailed justification for the use of foreign construction material

The valves were ordered from [redacted] on August 19th,2019 with a delivery time of approximately 22-24 weeks. We were informed on March 3rd, 2020 that the castings that [redacted] received from the foundry didn't pass their quality standards and were rejected. We have contacted alternate valve manufactures that were listed in the specs as approved:

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Original Contracted Supplier:
[redacted]

Three Alternate Suppliers that were contacted:

1. GA Industries
2. Valmatic
3. Milliken (Mueller)

The alternate suppliers all stated that none of them could do any better than the 20-24-week time frame that was given by [redacted]

Please understand D.H. Griffin Infrastructure as well as Ferguson Enterprises has exhausted every effort to stay in compliance with the AIS requirements set forth in the contract, but at this point in the project and schedule we can no longer afford to wait an additional 22-24 weeks for new valves to be fabricated and shipped.

We are currently ready to install the 12" check valves now **(see referenced attachment #3**) and due to complete the project by early June of 2020, so any amount of time from here is an inconvenience to the project and it's completion.

Please contact me if you need any additional information.

Sincerely,

Doug Carter
Area Manager – Greensboro NC
DH Griffin Infrastructure, LLC
336-669-1832

2.4 CHECK VALVES

A. The valve shall have a heavy-duty body of high-strength cast iron conforming to ASTM A126 Class B with integral flanges, faced and drilled per ANSI B16.1 Class 125 for horizontal installation. The valve shall be rated at a minimum 150 psi working pressure.

B. Disc arm shall be ductile iron or fabricated of high strength stainless steel and be suspended from and keyed to a one-piece stainless steel shaft completely above the waterway and supported at each end by heavy lead-free bronze bushings. Shaft shall extend through both sides of the valve body, and rotate freely without the need for external lubrication. A shaft lock pin or other means of positively locking horizontal position of shaft shall be provided to ensure shaft does not move horizontally due to weight arm adjustments.

C. Valve disc shall be cast iron and faced with a renewable, resilient seat ring and be held in place by a follower ring and stainless steel screws, and shall seal tightly against a Type 316 stainless steel replaceable body seat.

D. Shaft shall be sealed at both ends where it passes through the body by means of replaceable O-rings in a removable bronze cartridge. A dual external lever with adjustable counterweight shall be keyed and positively locked to the shaft. There shall be no freedom of movement at the connection between the shaft and lever arm.

E. The valve shall swing open smoothly at pump start and provide three-stage closing upon pump shutdown. The initial stage of closure shall be provided by a timing valve that allows very fast closure of the disc from full open to any degree of closure. The second stage of closure shall be provided by a flow control valve that varies the speed toward final closure. The final stage of closure shall be provided by internal adjustment of the oil cylinder that controls variable speed closure to shut-off. Each stage shall be independently field adjustable and the oil system self-contained and separate from the main line media.

F. Valve shall be provided with a separate cushion lever to connect the hydraulic cylinder to the valve shaft. There shall be no connection between the weighted lever arm and the cushion mechanism, hinged or otherwise.

G. Supply each valve with limit switch and cord set rated for NEC Class 1, Division 2 service. Length of cord set shall be sufficient to reach to junction box shown.

H. The valve manufacturer shall have a representative within 125 miles of the project site to provide on-site troubleshooting and maintenance. Valves will not be accepted until manufacturer's representative has attended startup.

I. Acceptable Manufacturer's: G.A. Industries, APCO, Valmatic, Milliken

2.5 BALL CHECK VALVES

A. Ball check valves shall be 150 psi working pressure rated with NPT ends, epoxy coated cast iron body, Buna-N ball, and access port foe cleaning and backflush.

2.6 BALL VALVES

A. Ball Valves shall be 150 psi working pressure rated with NPT ends, 316 SS body, ball, and lever handle.

Attachment #3

Picture of the work area where the 12" check valves are to be installed.
Picture dated: 3-31-2020