REQUEST FOR A WAIVER FROM THE AMERICAN IRON AND STEEL REQUIREMENT

This request for a waiver from the American Iron and Steel requirement was completed with the City of Fort Wayne and its consultants to document a need to use foreign made iron/steel component and verify that the conditions of Section 436 are met.

This waiver request is necessary due to (highlight):

- Public Interest (complete sections A and B below)
- Availability (complete sections A and C below)
- Cost (complete sections A and D below)

Section A – General

Describe the unit process which contains the proposed foreign-made iron/steel component.

The City of Fort Wayne closed a loan in the amount of $34,999,000 with the IFA on September 25, 2023. The loan includes the South Foster Park Wet Weather Pump Station and relief sewer project, which will construct large diameter gravity sewers, four diversion structures, a dual wet weather and storm water pump station, an above ground electrical building, associated manholes, and project related appurtenances. The combined sewer flows to CSO outfalls 005, 020, and 021 will be diverted and conveyed through the Foster Park Relief Sewer to the Three Rivers Protection and Overflow Reduction Tunnel upon completion of the project.

This project is included in the Consent Decree Fort Wayne has entered into with the US EPA, Department of Justice, and Indiana Department of Environmental Management to implement a Combined Sewer Overflow Long Term Control Plan, to reduce the volume of combined sewage that is discharged into the waterways within the City of Fort Wayne. In order to have this system finished and operational by the end of the year, as required in the Consent Decree, these valves need to be onsite no later than the end of August 2025.

To complete the project, seven (7) 24" knife gate valves will be required. AIS compliant valves were identified and approved April of 2024. The ship date on the valves has been delayed and as of Feb 25, 2025, the manufacturer has stated that the ship date is uncertain and not guaranteed but are not expected to meet the required timeline of the Consent Decree.

Non-domestic valves meeting the project specification can be secured within 20 weeks. The purchase of non-domestic valves will reduce project delays, protect critical infrastructure, and meet the needs of the Consent Decree.

Section B – Public Interest (N/A)

Why is the use of the product in the public interest? For example, is the use of a foreign made iron/steel component necessary because of compatibility with existing components in the wastewater system or other reason?

Section C – Availability

Describe requirements in the project plans, specifications or permits which describe the required

quantity and quality of the product:

Fort Wayne attempted to secure domestic knife gate valves from the manufacturer approximately 47 weeks ago. The ship date has been pushed to the point that the project will not be able to wait for the uncertain delivery date and meet the timeline required by the system's Consent Decree.

- Product requirements: Specifications for the valves are included in the attached documentation from Fort Wayne.
- Quantity: Seven (7) 24" knife gate valves
- Project timeline: Valves must be onsite by August 30, 2025, to meet Consent Decree requirements.
- Domestic product:
  - [redacted] knife gate valves
  - Timeline – Uncertain.
    - 47 weeks since approval (as of March 19th), see attached letter from [redacted]
  - Price: [redacted]
- Nondomestic product
  - [redacted]
  - Timeline 20 weeks
  - [redacted]

Section D – Cost (N/A)
Cost of project with domestic components $_____

Cost of project with foreign made components $_____

Will the use of domestic components increase the project cost by more than 25%?

___Yes ____No

If No, cost is not a valid basis. If Yes, attach a detailed cost comparison of the domestic and foreign made options.

1.6 PRODUCT DELIVERY, STORAGE AND HANDLING

A. The Contractor shall be responsible for the delivery, storage, and handling of products.

B. Load and unload all valves and appurtenances by hoists or skidding. Do not drop products. Do not skid or roll products on or against other products. Use sling, hooks and pipe tongs in such a manner to prevent damage to products.

C. Keep stored products safe from damage or deterioration. Keep the interior of valves and appurtenances free from dirt or foreign matter. Drain and store valves in a manner that will protect valves from damage by freezing. Store gaskets and other products which will deteriorate from sunlight in a cool location out of direct sunlight. Gaskets shall not come in contact with petroleum products.

D. Store valves and appurtenances in accordance with manufacturer's recommendations.

E. Do not stack valves, valve boxes or valve stands.

F. Promptly remove damaged products from the job site and replace with undamaged.

PART 2 - PRODUCTS

2.1 GENERAL

A. All valves and appurtenances shall be new, unused, and as shown on the drawings and specified in this Section. Valve opening direction shall be determined by the Engineer.

2.2 VALVES

A. Check Valves

1. Oil Controlled Buffer Swing Check Valve

   Check valves for general wastewater service in sizes four (4) inches and larger, shall be the single disc, swing check design, non-slam, cast iron ASTM A-126, Class B body and bonnet, bronze seat ring and disk plate, swing check, bolted cover, flanged ends, 175 psig working pressure. Valves of four-inch diameter shall have bronze disk. Valves larger than four (4) inches shall have ductile iron or cast iron disk in accordance with ASTM B536 or ASTM A126 Class B. Hinge pin shall be 316 stainless steel. These shall meet or exceed ANSI/AWWA C508 and be suitable for use in a horizontal position. Flanges shall conform in dimensions and drilling to ANSI B16.1. Swing check valves shall have outside weight and lever with an oil controlled bottom mounted buffer to dampen valve closure. Closing speed shall be adjustable. These valves shall be [redacted] or approved equal.

2. Flexible Elastomer Duckbill Check Valve

   Valve vault drain to the wet weather valve vault shall be a 4-inch Tideflex Series 35.

B. Knife Gate Valves:

1. General: Valve shall be bonnetless and fully bi-directional.
2. Gate Edge: Machined, finished, and rounded and have a 45-degree beveled knife edge. The gate faces shall be finish ground.

3. Packing System: Fits a rounded cast packing chamber. The packing system shall consist of multiple layers of packing. The selected packing system shall be for wet service. The packing gland shall match the valve body. The fasteners shall be stainless steel.
4. Body: One piece casting of type 304 stainless steel. Valve body shall incorporate cast in guides and jams and can handle full reverse pressure without damage. Valve inside port diameter shall be equal to ANSI B36.10 STD pipe inside diameter for both metal and resilient seated valves. Raised faces shall be full width per ASME B16.20 standards for spiral-wound gaskets. Valve body modifications such as bonnets, V-orifice, and purges in the chest and/or seat area shall be available.
5. Seat: Resilient seated with seat material molded on three sides of the stainless steel seat ring for installations where drip-tight shutoff is required. Resilient seat material shall be chloroprene suitable for use with wastewater.
6. Face-to-Face Dimension: Meet MSS SP-81 for knife gate valves.
7. Cold Working Pressure: Valve rating shall meet or exceed MSS SP-81. Valves shall be 150 psi.
8. Flange Drilling: ANSI B16.5 class 150, 2 to 24 inches, ANSI 16.47 Series A class 150, 26 to 48 inches.
9. Actuators:
    a. Comply with actuator type and actuator orientation as shown on the Drawings.
    b. Size for an operating pressure of 30 psi.
10. Spare Parts / Special Tools:
    a. Packing: One (1) supply bag per each valve supplied.
    b. Packing Screws: One (1) set per each valve supplied.
    c. Packing Rods: One (1) rod per each size valve supplied.
    d. Seal Kits: Five (5) kits per each size valve supplied. Each seal kit shall include:
        (i) Two transverse seals assembled together with packing, scraper blades and backing cord.
        (ii) One body seal.
        (iii) One bag of spare packing.
11. Manufacturer of Knife Gate Valves shall be:
    a. 24-inch Knife Gate Valves shall be [redacted] Cast Knife Gate Valve, or approved equal.

C. Air/Vacuum Valves

Design: Provide air/vacuum valves that are designed to operate with liquids carrying solid particles, such as sewage and effluent. Provide valves that are designed to automatically release air accumulations in piping and to permit quantities of air to enter the piping when the piping is subjected to a vacuum. When the piping is pressurized and the valve fills with air, the float falls and causes the resilient seat to open an orifice allowing the air to escape to atmosphere. When the air has been exhausted from the valve body, the float is buoyed up and causes the resilient seat to close the orifice, preventing water from being released from the valve. When the piping is subjected to a vacuum, the float falls and causes the resilient seat to open an orifice allowing air to enter the pipe. Design the valves to exhaust air at up to sonic velocity without closing prematurely. Provide removable seats fastened to the inside of the cover. 1/2" through 3" air/vacuum valves shall have NPT threaded outlets for installation of a mushroom cap or street elbow. Fit 4" and larger air/vacuum valves with steel protective cowls. Valve shall incorporate a conical design with a funnel-shaped lower body that will allow solids and other foreign material to fall back into the force main. Valve design shall guarantee complete separation of the liquid from the sealing mechanism.