Washington State Department of Transportation

Memorandum

May 8, 2015

TO: Pasco Bakotich
E&EP/Design - 47329

THRU: Kent Kalisch
E&EP/Design - 47330

FROM: Bijan Khaleghi/Scott Sargent
PHONE: 705-7181/705-7753

SUBJECT: Statewide Blanket Proprietary Item Request

Description:
The Bridge and Structure's office is requesting blanket approval to use the following materials statewide for the 2015 – 2017 biennium.

Proprietary Item:
Manufacture: Neenah Foundry Company
R-3923 Heavy Duty Bridge Drain Frame with Bolted Grate
R-3943 Heavy Duty Bridge Scupper
R-4005-A2 Heavy Duty Scupper Frame and Grate (for temporary condition)
R-4014 Series Overhead Scupper Drain, Bolted Grate
R-4015 to R-4016 Series Roadway and Deck Drains

Justification:
The R-3923, R-3943, R-4005, R-4014, R-4015 and R-4016 drains listed above from Neenah Foundry Company are currently the only known bridge deck drains that can be installed in either new or existing bridge decks without major revisions to the bridge slab reinforcement or making revisions to the standard bridge deck depth and design use by WSDOT.

The Neenah series deck drains are the only drains that meet WSDOT's current water collection requirements. Drains from other manufactures have a much smaller surface area and would require up to four times as many drains to equal the capacity of the Neenah design.

The Public Interest Finding is served by utilizing these drains, as they meet both hydraulic and bridge structural requirements:

- Reduces the number of drains needed, thereby reducing procurement/installation costs
- Increases safety for maintenance when cleaning is necessary by reducing the amount of time the crew is exposed to traffic. The drains with larger outlet pipe diameters will further reduce the necessity for maintenance crews to clean out the drains and drain lines.
- Reduces maintenance costs since fewer drains are needed
- Eliminates addition design costs for a site specific design to accommodate other drains.
- The Neenah drains can be installed in typical WSDOT bridge decks, eliminating extra forming costs or additional drain pipe.

Your earliest approval of this request is needed. If you have any questions, please call Scott Sargent.

I, Pasco Bakotich, State Design Engineer, of Washington State Department of Transportation, do hereby certify that in accordance with the requirements of 23 CFR 635.411(a)(2) that no equally suitable alternative exists for this patented or proprietary item.

Pasco Bakotich Date: 5/13/15

BK:tms
WSS
SF051215(1813)

cc: Casey Kramer Hydraulics, 47329