

### Miscellaneous Iron Products

#### Automatic Flood Gates

Supplier	Brand
None Approved	

#### Grates and Frames

Supplier	Brand
Deeter Foundry Lincoln, NE	#1976 Yard Drain Frame & Grate
	#2245, HD, Type E D I
	#2440L-B, HD Vane Grate
EJ USA, Inc. East Jordan, MI	#5724M & 5724-80 HD Pedestrian Frame & Grate
	#6970M, 6970 Z1, 6970 Z2 HD Vane Grate and Frame
	V-1610-3 & V3610-3 Yard Drain Frame & Grate
	V-4868 & V-4868-2 HD 6" Deep Frame - Must be reversible
	V5660 & V5660-80
	V-5760 HD
Neenah Foundry Company Neenah, WI	R-4808 A Pedestrian Frame & Grate
	R-4843 - H.D. Grates (3'x2')
	R-4999 L9 Vane Frame & Grate
	R5900 C / R-5901 C Yard Drain Frame & Grate

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Supplier	Brand
US Foundry Atlanta, GA	USF 1293 Ring and 5627 Grate
	USF 1293 Ring and 5680 Grate
	USF 1617 Frame and 6001 Grate
	USF 4137 Frame and 6237 Grate
	USF 4180 Frame and 6172 Grate
	USF 4658 Frame and 6317 Grate
	USF 6518 Angle Frame Set and 6037 Vane Grate
	USF 6536 Double Frame and 6038 Vane Grates

### Rings and Covers

Supplier	Brand
Deeter Foundry Lincoln, NE	#2018-A
EJ USA, Inc. East Jordan, MI	#1606Z & #2750A, HD
	#2750Z & #2750A, HD
US Foundry Atlanta, GA	
	USF 630 Ring and F Cover

### Method of Documentation of Acceptance:

By brand and source.

### Method of Approval:

This QPL section covers automatic flood gates, steel grate assemblies, iron castings for rings and covers,

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grates and frames, and other appurtenances when called for on the plans.

- The product shall be marked. Minimum markings shall be: name of manufacturer and the model identification. The manufacturer will supply product information and certify that the product meets applicable material specifications.

- The following will also apply for products containing iron or steel:

All iron and steel material used on Department projects must be in compliance with the "Buy America" requirements and the Department's "Standard Specifications for Highway Construction", Subsection 106.01. This means all manufacturing processes of iron and steel in a product (i.e., smelting/remelting and any subsequent process which alters the steel material's physical form or shape or changes its chemical composition) must occur within the United States to be considered of domestic origin. This includes processes such as rolling, extruding, machining, bending, grinding, drilling and applying coatings. The use of pig iron or processed, pelletized and reduced iron ore manufactured outside of the United States is permitted in the domestic manufacturing process for steel and/or iron materials. All steel and iron mill test reports must include a certified statement that all manufacturing processes for the iron or steel product occurred in the United States. Each supplier/fabricator of an intermediate product will also certify that the product complies with the "Buy America" requirements.

- Iron castings for rings and covers, grates and frames, and other appurtenances shall comply with AASHTO M 105, Class 35B and AASHTO M 306. Bearing surfaces between rings and covers or grates and frames shall be cast or machined with such precision that uniform bearing shall be provided throughout the perimeter area of contact. Iron castings for rings and covers or frames and grates shall not be painted.

- Automatic floodgates shall be of standard design and shall be made of cast iron complying with AASHTO M 105 for Gray Iron Castings. The gates shall be carefully machined, water-tight and entirely automatic in their operation. They shall be sensitive to a difference in water level and must be hinged so as to seat accurately.

**Note:** Steel Pipe Grate Assemblies shall be reviewed by the Bridge Division. Certified mill test reports for pipe and plate material as well as welder certification shall be provided for review and approval.

No information contained in these lists is to be used for promotional purposes.

The manufacturer of privately labeled products must be disclosed.