

MISCELLANEOUS IRON PRODUCTS

Rings and Covers

<u>Product</u>	<u>Supplier</u>
#1606Z & #2750A, H.D. Ring & Cover	EJ USA, Inc.
#2750Z & #2750A, H.D. Ring & Cover	(formerly East Jordan Iron Works, Inc.)
#2018-A Ring & Cover	Deeter Foundry
* Approved for Jobs containing Std. Drawings FPC-9, FPC-9E, FPC-9M, or FPC-9S with 11-16-01 change. May be used with other jobs with Change Order.	

Grates and Frames

<u>Product</u>	<u>Supplier</u>
R-4843 – H.D., Grate(3'x2')	Neenah Foundry
R5900 C/R-5901 C,Yard Drain Frame & Grate	
R-4808 A, Pedestrian Frame & Grate	
R-4999 L9, Vane Frame & Grate	
#1976,Yard Drain Frame & Grate	Deeter Foundry
#2245, H.D. Frame & Grate, Type E D.I.	
#2440L-B, H.D. Vane Grate	
V-5760, H.D. Frame & Grate	EJ USA, Inc.
V-4868 & V-4868-2, H.D. Frame & Grate**	(formerly East Jordan Iron Works, Inc.)
(**6" Deep Frame, If Specified Must Be Reversible)	
V1610-3 & V3610-3, Yard Drain Frame & Grate	
V5724 & V5724-80 Frame & Pedestrian Grate	
#6970 M, 6970 Z1 & 6970 Z2 , H.D. Vane Frame & Grate	

Automatic Floodgates

<u>Product</u>	<u>Supplier</u>
None Approved	

Method of Documentation of Acceptance: By brand and manufacturer.

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The following procedure is to be used in acquiring approval of miscellaneous iron products for inclusion on the Qualified Products List:

1. This QPL section covers iron castings for rings and covers, grates and frames and other appurtenances, and automatic flood gates when called for on the plans.
2. 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.
3. All iron and steel material used on Department projects must be in compliance with "Buy America" requirements and Department's "Standard Specifications for Highway Construction", Subsection 106.01. This means all manufacturing processes of the iron or 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 mill test reports will contain a statement certifying that all manufacturing processes for the steel occurred in the United States. Each supplier/fabricator of an intermediate product will also certify that the product complies with "Buy America" requirements.
4. 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.
5. 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.