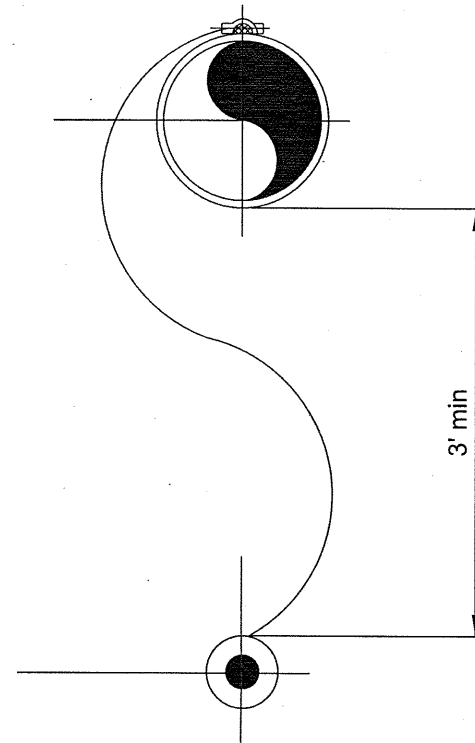


**Notes:**

1. Apply weld cap directly to pipe, not to pipe wrap. Use primer as required by the manufacturer.
2. Completely enclose wire within weld cap.
3. Repair any damaged coating not covered by weld cap.

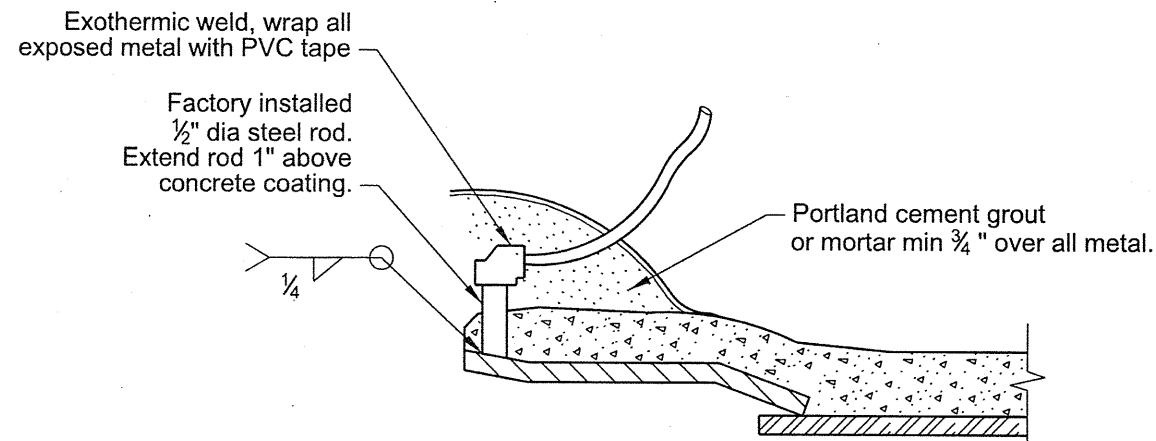
**Exothermic Weld  
DI & Steel Pipe**



**Notes:**

1. Locate anodes a max of 3 feet horizontally from centerline of pipe.
2. Place galvanic anode in clean native backfill and compact to 12" above anode.
3. Anodes may be placed upright or horizontally, horizontal orientation shown.
4. Anode wire shall be exothermic welded directly to pipe or incorporated into the joint bond with a split-bolt connection.

**Galvanic Anode Installation**



**Exothermic Weld  
MCSP & CCP Pipe**

For piping runs greater than or equal to 100 feet

Pipe diameter	Number of anodes
Less than or equal to 16"	1 per 100 ft (2 min)
18" to 30"	2 per 100 ft
Greater than or equal to 32"	4 per 100 ft


**Notes:**

1. Runs of pipe shall have an anode installed at each end.
2. Anodes to be spaced a min of 5 ft apart.
3. Anodes along a run of pipe shall be evenly distributed and located adjacent to a pipe joint.

For piping runs less than 100 feet install anode at each end of run

Pipe diameter	Number of Anodes
Less than or equal to 16"	2 (1 at each end)
Greater than or equal to 18"	4 (2 at each end)

**Anode Schedule**

<p>The selection and use of this Standard Drawing, while designed in accordance with generally accepted engineering principles and practices, is the sole responsibility of the user.</p>	 <p>PORTLAND WATER BUREAU CITY OF PORTLAND, OREGON</p> <p><i>[Signature]</i> Chief Engineer</p>	
	<p>Standard Drawing Title</p> <p><b>GENERAL CORROSION CONTROL DETAILS</b></p>	
<p>Note: All material and workmanship shall be in accordance with City of Portland Standard Construction Specifications.</p>	<p>Effective Date <b>Dec 16, 2009</b></p>	<p>Standard Drawing No.</p> <p><b>P-750</b></p>
	<p>Calc. Book No. <b>PWB 1</b></p>	
	<p>Baseline Report Date <b>Dec 16, 2009</b></p>	