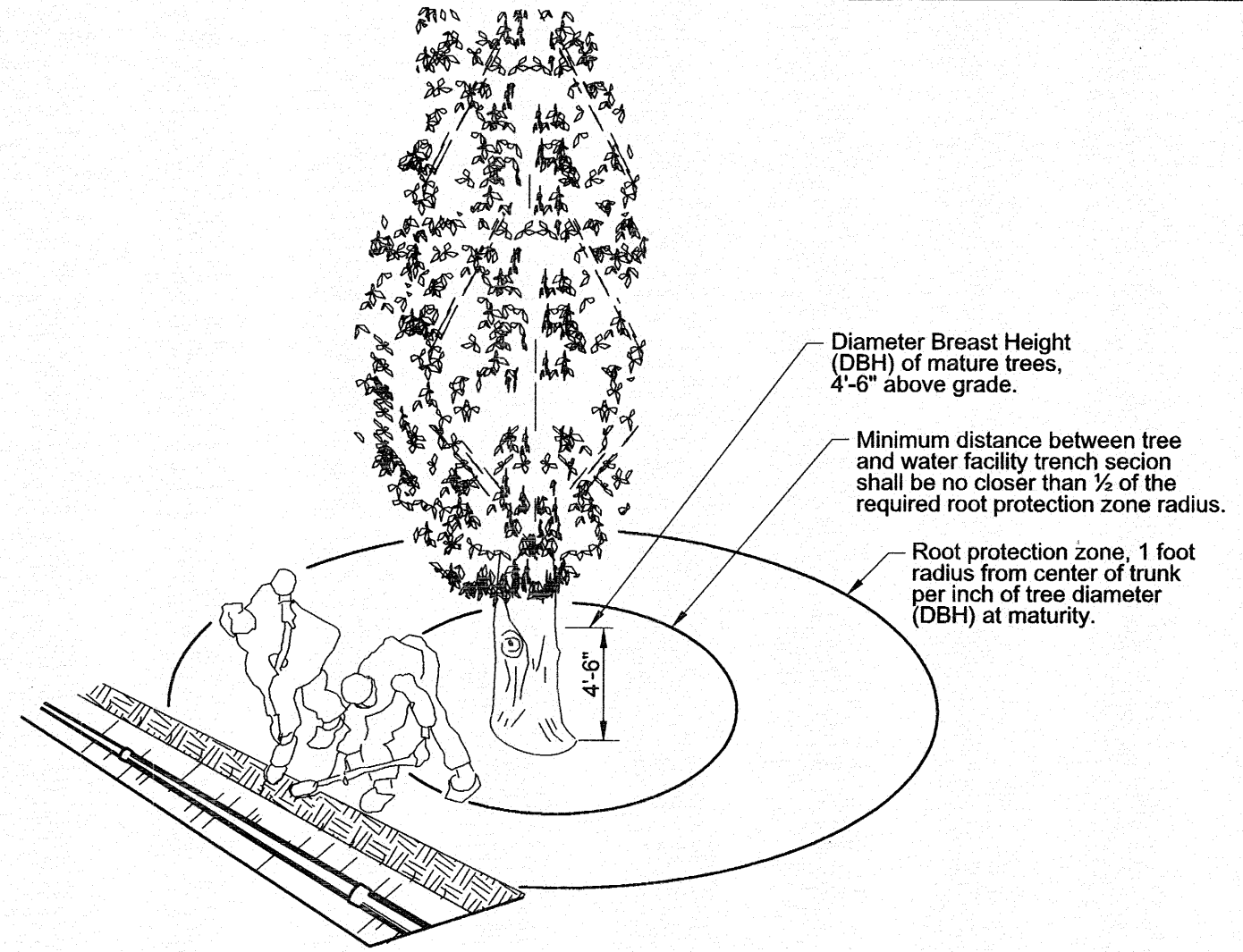
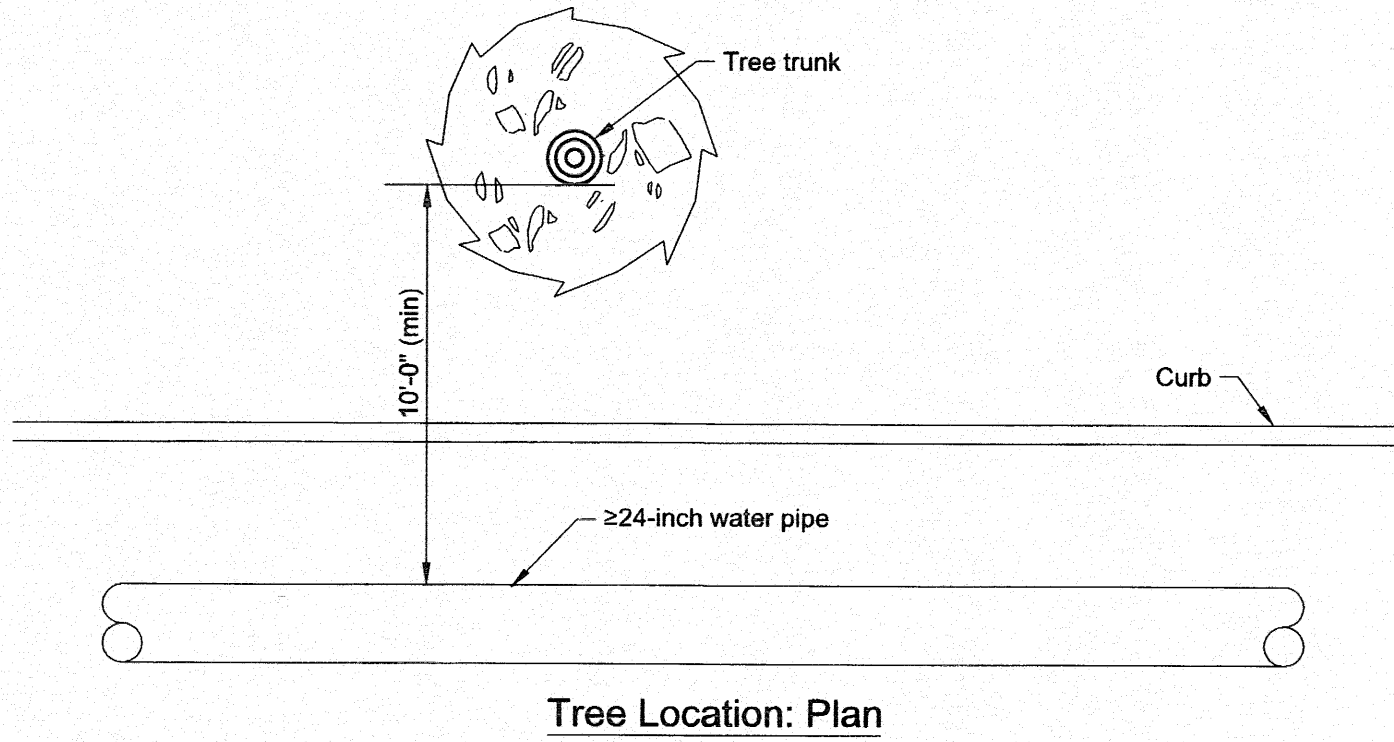



Plot Date: 3/28/2016 1:57:50 PM File Name: J:\Engineering\CAD\Standards\Working_Details\Misc\P-846_Tree_Root_Clearance.dgn



Note:

1. Trees must be a minimum of 10 feet from the nearest edge of ≥24-inch water pipe.
2. Tree selection must be approved by the City Forester.
3. Trees to be planted 10 feet from any ≥24-inch water pipe must be a species expected not to exceed 12-inch diameter breast height (DBH) at maturity. Trees expected to be greater than 12-inch DBH at maturity shall be planted a minimum distance of 1/2 the root protection zone from the ≥24-inch water pipe trench section. The root protection zone is 1 foot radius from the center of the tree trunk per inch of the tree diameter (DBH) at maturity. See Detail 1, Tree to Trench Distance.
4. The 24-inch pipe trench section is outside pipe diameter plus 24-inches, and the pipe trench section for pipe size >24-inches is outside diameter plus 48-inches.

<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>Tree Planting Clearance Water Facility Pipe ≥ 24-inch Diameter</p>	
<p>Note: All material and workmanship shall be in accordance with City of Portland Standard Construction Specifications.</p>	<p>Effective Date <i>MAR 28, 2016</i></p>	<p>Standard Drawing No.</p> <p>P-846</p>
	<p>Calc. Book No. <i>PW13 1</i></p>	
	<p>Baseline Report Date <i>MAR 28, 2016</i></p>	