


NOTES:

- REFER TO FIRE HYDRANT ASSEMBLY STANDARD DRAWING P-700. CENTER OF HYDRANTS MUST HAVE MIN 6 FT CLEARANCE FROM THE CENTER OF THE HYDRANT TO THE OUTSIDE EDGE OF STORMWATER FACILITY.
- MAINTAIN 2FT SKIN-TO-SKIN SEPARATION DISTANCE BETWEEN THE FACE OF GUTTER PAN AND WATER MAIN. IF WATER MAIN IS < 2 FT FROM FACE OF GUTTER PAN, A 30 MIL HDPE SHIELD LINER IS REQUIRED, UNLESS OTHERWISE APPROVED BY PWB. VERIFICATION OF WATER MAIN DEPTH AND LOCATION IS REQUIRED PRIOR TO PWB APPROVAL.
- CROSS-SECTION VIEWS MAY BE REQUIRED ON CONSTRUCTION PLANS FOR PWB TO VERIFY WATER MAIN LOCATION IN RELATION TO FACILITY.
- FOR PLANT HEALTH THE MAXIMUM WIDTH FOR ENCROACHMENT INTO THE FACILITY WITH A LINER FOR WATER LINE PROTECTION IS 6". AFTER 6", THE WATER MAIN MUST BE RELOCATED.
- STRAIGHT RUNS OF WATER MAIN WITH NO FITTINGS, WATER SERVICE CONNECTIONS, HYDRANT CONNECTIONS, NOR CONNECTIONS TO OTHER WATER MAINS MAY REMAIN UNDERNEATH STORMWATER FACILITIES AS LONG AS:
 - THERE WILL BE 18" OF UNDISTURBED SOIL COVER OVERTOP OF THE WATER MAIN DURING EXCAVATION OF THE FACILITY, AND ≥ 30" OF COVER AT THE FINISHED GRADE FOR THE FACILITY.
 - A 30 MIL HDPE SHIELD LINER IS INSTALLED. EXTEND 3' ON EITHER SIDE OF THE WATER MAIN WHERE IT CROSSES UNDER THE FACILITY.
- 40 MIL LINER REQUIRED IN THE COLUMBIA SOUTH SHORE WELL FIELD PROTECTION AREA WHEN USED TO PROTECT GROUNDWATER.

<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>Bureau of Environmental Services CITY OF PORTLAND, OREGON William Ryan Digitally signed by William Ryan Date: 2020.09.11 09:32:15 -0700 Chief Engineer</p>	
	<p>STANDARD DRAWING Title</p> <p>UTILITY COORDINATION WATER ASSET CLEARANCES</p>	
<p>Note: All material and workmanship shall be in accordance with the City of Portland Standard Construction Specifications.</p>	<p>Effective Date: 07-31-20</p>	<p>Standard Drawing No. P-333</p>
	<p>Calc. Book No.: N/A</p>	
	<p>Baseline Report Date: N/A</p>	