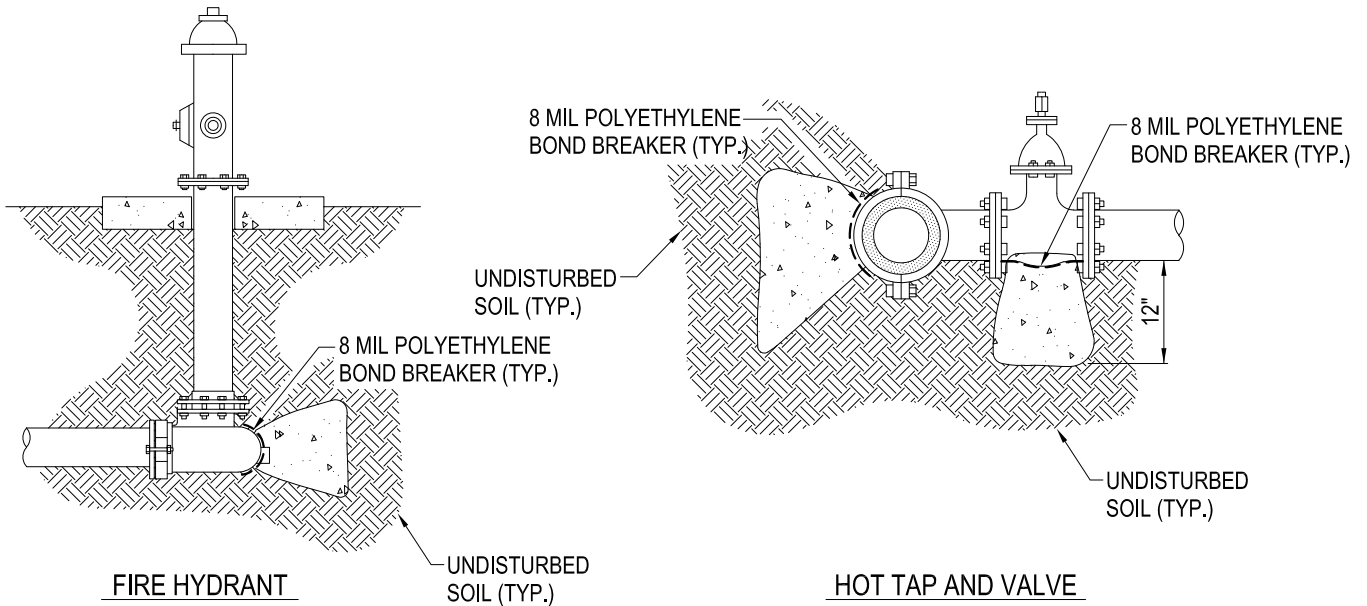


**GENERAL NOTES**

1. PIPE INSTALLED UNDER CONDITIONS DIFFERENT FROM THOSE NORMALLY ENCOUNTERED SHALL REQUIRE THRUST BLOCK DESIGNED FOR THOSE PARTICULAR CONDITIONS
2. ALL THRUST BLOCKS SHALL BE CLASS 520-C-2000 CONCRETE AND PLACED AGAINST UNDISTURBED SOIL. PPHCSD WILL DETERMINE SIZES NOT SHOWN
3. THRUST BLOCKS ON CROSSES SHALL BE USED WHENEVER PIPE SIZES DIFFER OR WHEN ONE OR MORE OPENINGS ARE PLUGGED, OR AS DIRECTED BY PPHCSD
4. REINFORCING STEEL SHALL CONFORM TO A.S.T.M. SPECIFICATIONS A15 AND A305 INTERMEDIATE GRADE
5. ALL FITTINGS TO BE WRAPPED WITH 8 MIL POLYETHYLENE, PER PPHCSD SPECIFICATIONS
6. ALL MATERIALS SHALL BE NEW

MINIMUM BEARING SURFACE AREA (SQ. FT.)					
PIPE SIZE	BENDS				TEE OR DEAD END
	11 1/4°	22 1/2°	45°	90°	
6"	1.0	1.5	2.5	4.5	3.5
8"	1.5	2.5	4.5	8.0	5.5
12"	3.0	4.5	9.0	16.5	12.0



Revised: April 22, 2020

RECOMMENDED BY:	REV.	DATE	BY
Engineering			
APPROVED BY:			
Operations			

**PHELAN PIÑON HILLS**  
**COMMUNITY SERVICES DISTRICT**  
**CONCRETE THRUST BLOCK DETAILS**



STD. DWG. No.  
**W-7**