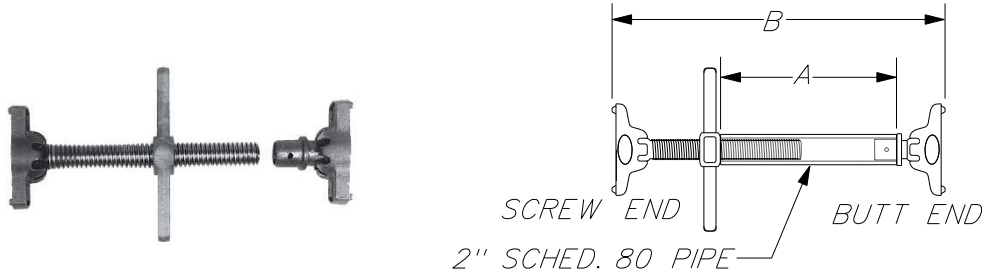


METROPOLITAN UTILITIES DISTRICT Prepared by: Bill Travnicsek Approved by: Jeff Loll	Construction Standard Screw Jacks for Support Backing With Extra Heavy (Sch 80) Black Pipe	No: 1.8.13 Page: 1 of 1 Supersedes: 10-19-11 Effective: 4-20-12

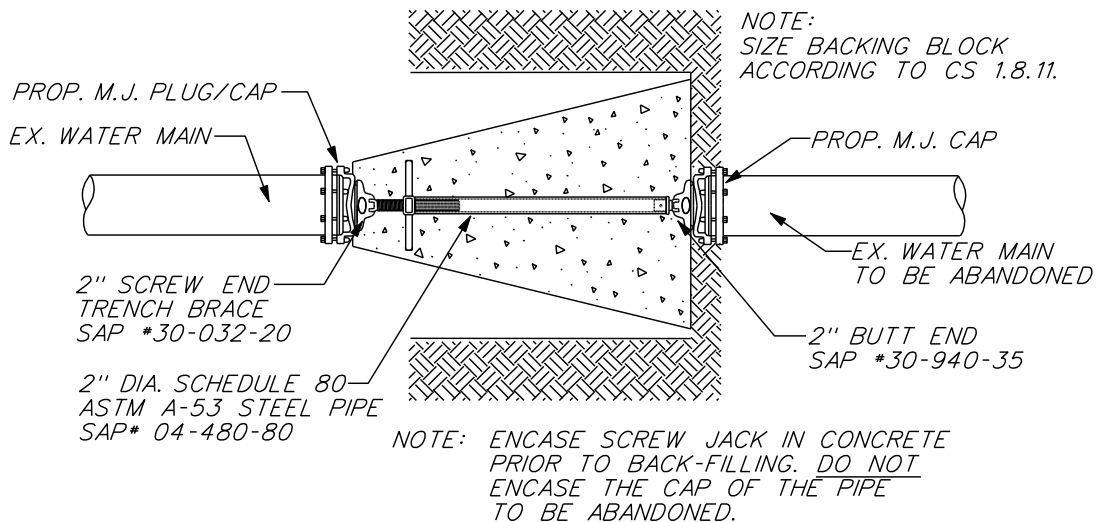
GENERAL

The intent of this Construction Standard is to specify the materials and installation of screw jacks for 6", 8" and 12" diameter mains. Screw jacks shall be installed where indicated on job drawings.



SCREW JACK		
	A	B
DIAMETER WATER MAIN ⁽¹⁾	REQUIRED LENGTH OF 2" Ø SCHEDULE 80 PIPE SAP # 04-480-80	MAX. LENGTH OF STRUT ASSEMBLY (ALLOWING 12" LL FOR SCREW AND BUTT END)
6" ⁽²⁾	2" Ø x 1'-6"	2'-6"
8" ⁽²⁾	2" Ø x 2'-6"	3'-6"
12" ⁽³⁾	2" Ø x 3'-0"	4'-0"
>12"	CONTACT ENGINEERING	
ASSUMPTIONS: Calculations for the above chart are based on 180 PSI test pressure, K1/R (slenderness ratio) w/K=2.0 and load (l)=1.6 live load. NOTE 1: If water main size at connection varies, use larger diameter. NOTE 2: 6" and 8" are sized for 90° bend (worst case). NOTE 3: 12" is sized for <u>dead ends only</u> . Contact Engineering for 12" bends.		

**



** Revised Drawing



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