



TRENCH EXCAV. 1'-0" DEPTH	PIPE DIAM.	1-1/2:1 SLOPE			2:1 SLOPE			TRENCH EXCAV. 1'-0" DEPTH
		CU.FT.	D	L	CONS OR F.S.M.	STEEL LBS.	L	
21.60	8"	4'-2"	0.77	15	5'-10"	1.08	21	27.40
23.91	10"	4'-10"	0.92	20	6'-8"	1.28	23	30.35
26.25	12"	5'-6"	1.05	21	7'-6"	1.49	29	33.25
29.73	15"	6'-6"	1.34	24	8'-9"	1.82	32	37.63
33.25	18"	7'-6"	1.61	30	10'-0"	2.18	39	42.00
37.35	21"	8'-6"	1.95	34	11'-6"	2.62	43	47.25
39.38	24"	9'-3"	2.16	35	12'-6"	2.97	50	50.75
43.75	30"	10'-6"	2.63	44	15'-0"	3.86	62	59.50
Q		4" FOR 1-1/2:1 SLOPE			6" FOR 2:1 SLOPE			

**NOTE:**  
 1. FOR DESCRIPTIONS, MATERIALS AND CONSTRUCTION METHODS, SEE LATEST SPECIFICATIONS.  
 2. ALL CONCRETE DIMENSIONS SHOWN ARE MINIMUM.



**DEPARTMENT OF PUBLIC WORKS  
 ENGINEERING DIVISION  
 TOWN OF BILLERICA,  
 MASSACHUSETTS**

**CONCRETE & FIELD  
 STONE MASONRY ENDS  
 FOR 8" TO 30" PIPE  
 CULVERT**

CREATED BY: DCW/KCS

SCALE: NTS

FILE:

CHECKED BY: GA/JT

DATE: 06/29/2015