



NOTE:

CALL CPU INSPECTOR TWO(2) WORKING DAYS PRIOR TO BE ON-SITE TO OBSERVE. TRENCH BOTTOM SUBGRADE MUST BE FIRM AND UNDISTURBED.

PIPE BEDDING (**PER 10W & 11W**) SHALL BE A MINIMUM OF **12"** EACH SIDE AND TOP AND BOTTOM OF PIPE COMPACTED. THRUST BLOCKS/ANCHORS NOT SHOWN FOR CLARITY.

PIPE RESTRAINT LENGTHS (WITHOUT POLY BAG ENCASEMENT)					
FITTING	4" DIA PIPE L	6" DIA PIPE L	8" DIA PIPE L	10" DIA PIPE L	12" DIA PIPE L
11-1/4° BEND	6'	9'	11'	12'	16'
22-1/2° BEND	12'	17'	23'	27'	32'

NOTE: THESE ARE THE MINIMUM PIPE RESTRAINT LENGTHS UNLESS STATED OTHERWISE ON THE PLANS.

45° BENDS NOT ALLOWED FOR VERTICAL INSTALLATION. VALUES SHOWN HEREIN ASSUME 200PSI MAX TESTING PRESSURE WITH WELL GRADED GRAVEL BEDDING AND 3' STANDARD COVER.

REVISED JANUARY 2026

FILE NAME		VERTICAL FITTING WATER MAIN INSTALLATION DETAIL	<div>Clark Public Utilities</div> 
21W			
SHEET	1 OF 1	STANDARD DETAILS	