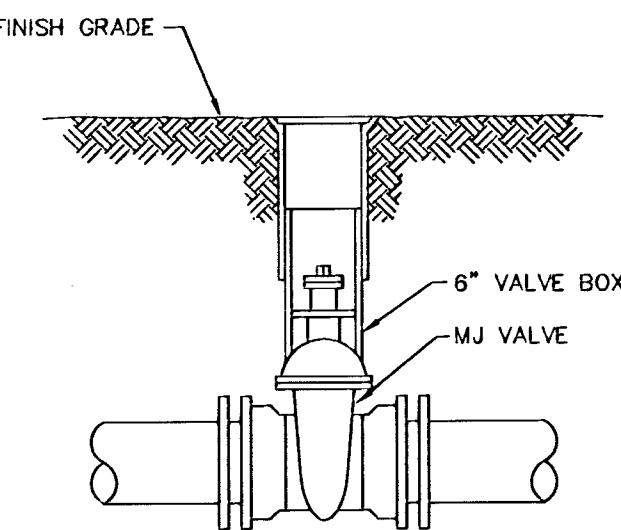
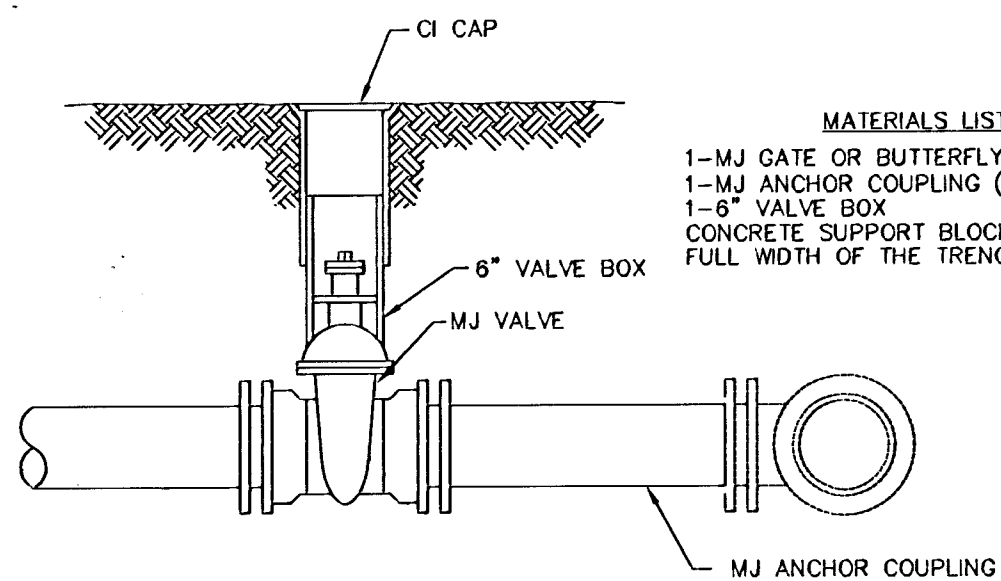




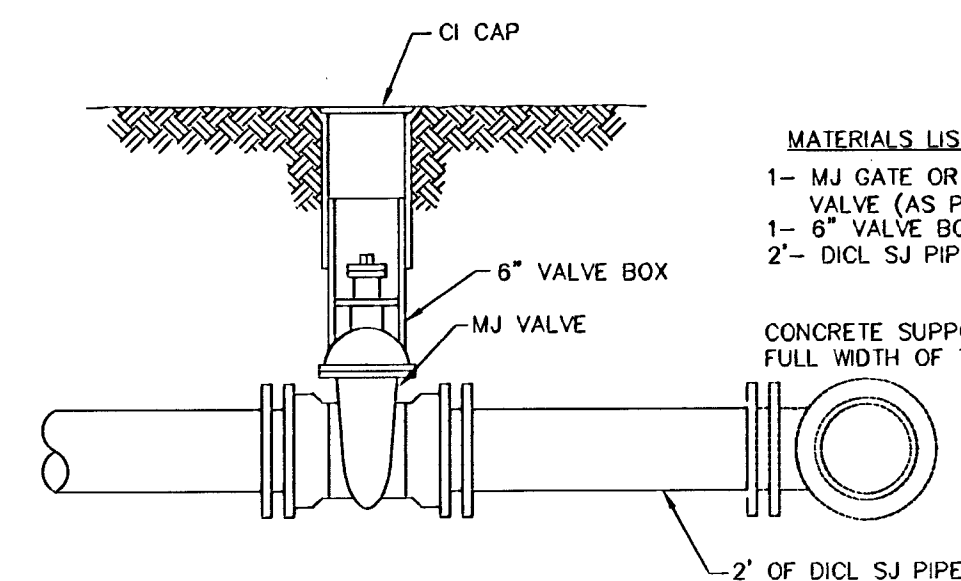
LINE VALVE ASSEMBLY

MATERIALS LIST
1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1-6" VALVE BOX
CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH



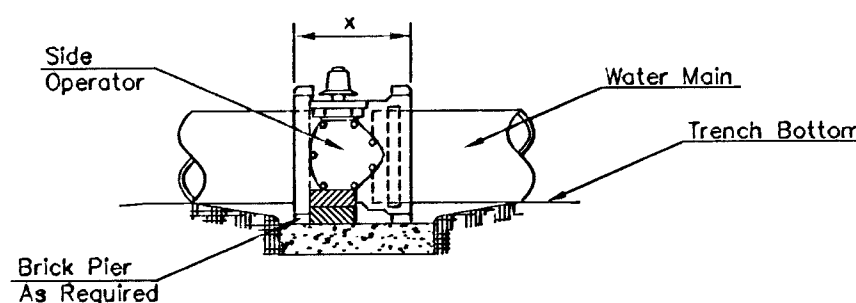
ANCHORED VALVE ASSEMBLY

MATERIALS LIST
1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1-MJ ANCHOR COUPLING (12" OR SMALLER)
1-6" VALVE BOX
CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH



VALVE ASSEMBLY

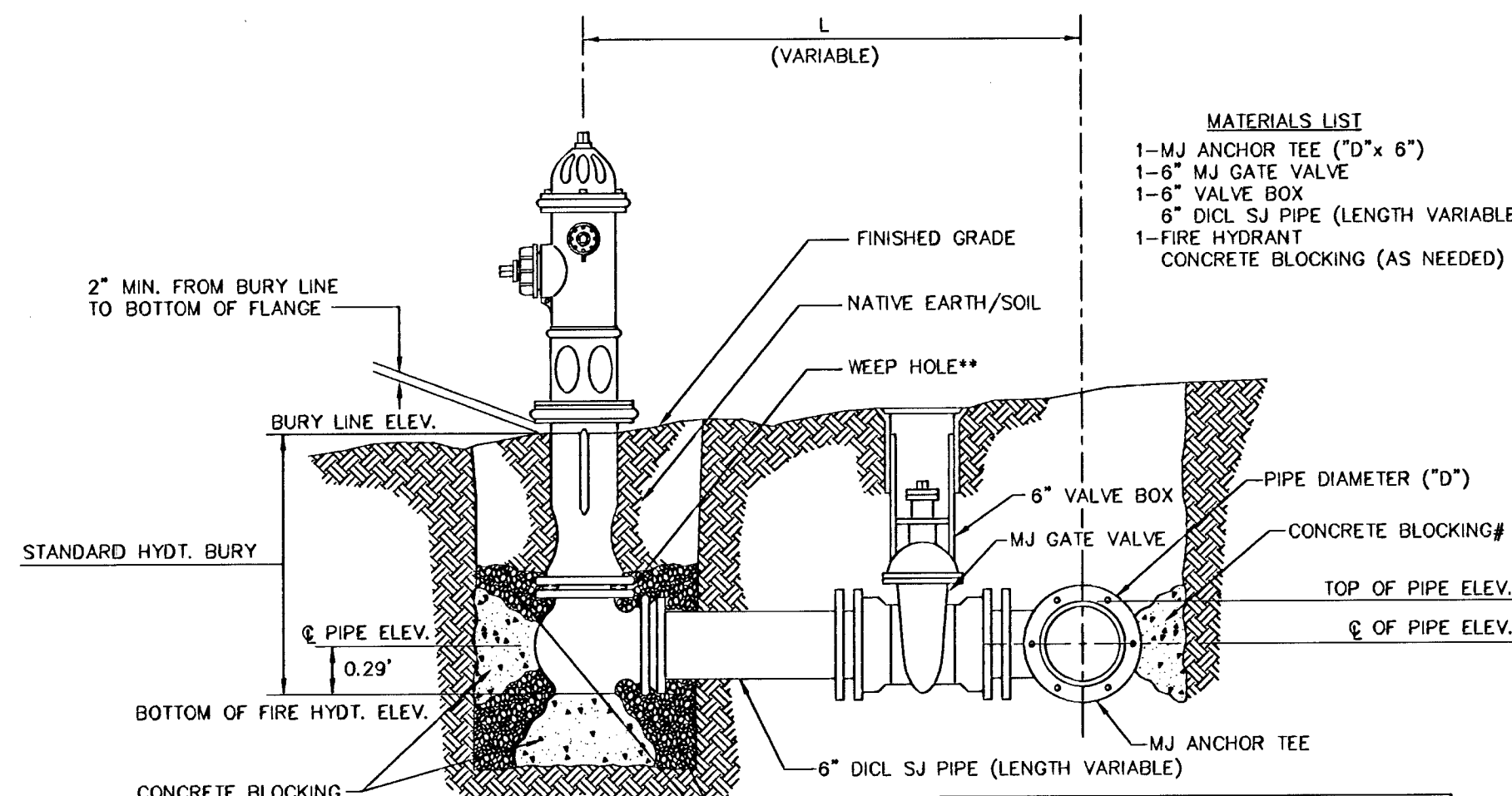
MATERIALS LIST
1-MJ GATE OR BUTTERFLY VALVE (AS PER PLAN)
1-6" VALVE BOX
2'- DI. SJ PIPE
CONCRETE SUPPORT BLOCK SHALL BE FULL WIDTH OF THE TRENCH



NOTES

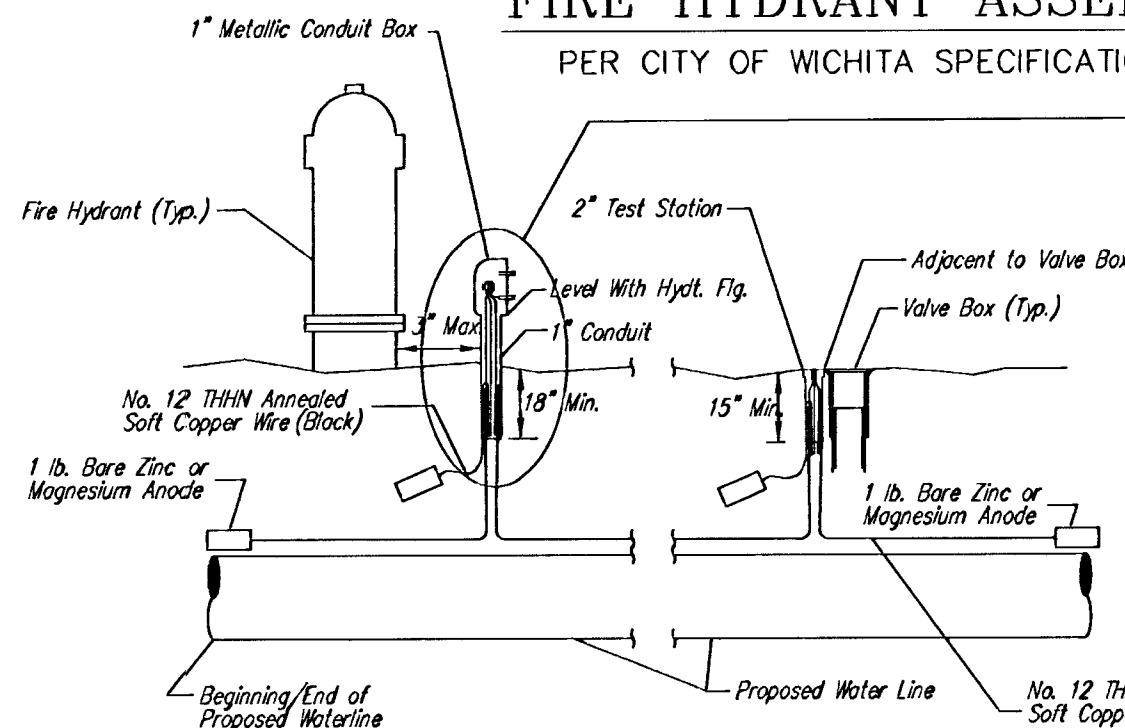
- This detail covers Butterfly Valve installation, inclusive, regardless of type of pipe or joint used. Larger lines to be detailed on plans.
- 6" Valve Box and Cover required per City of Wichita Std. Specifications.
- Conc. Support Block to be full width of trench.

CONCRETE SUPPORT BLOCKING FOR BUTTERFLY VALVE INSTALLATION



FIRE HYDRANT ASSEMBLY

PER CITY OF WICHITA SPECIFICATIONS



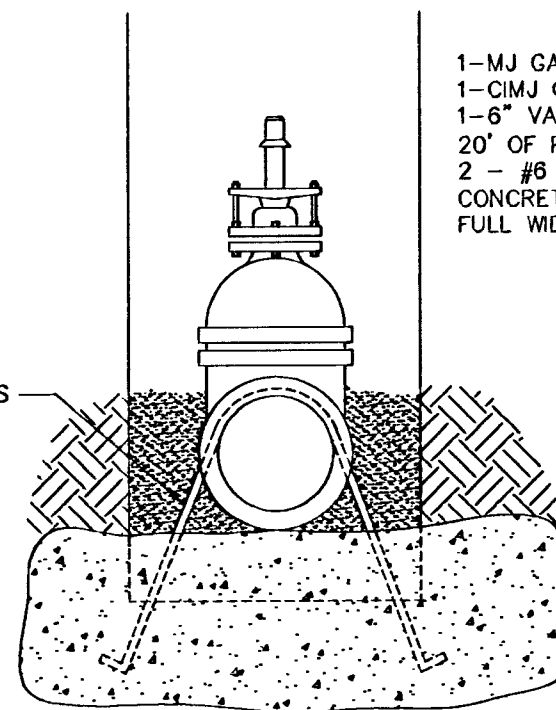
FIRE HYDRANTS REQUIRED			
STATION	BURY LINE ELEVATION	TOP OF PIPE ELEVATION	FIRE HYDRANT BURY REQUIRED
2+78.83 Line 1	112.86	108.18 (12")	5.5
6+31.80 Line 1	112.39	108.18 (12")	5.0
9+98.77 Line 1	112.55	104.84 (24")	9.0
13+50.43 Line 1	112.23	108.32 (24")	7.0
16+53.08 Line 1	111.87	105.86 (24")	7.5
24+00.89 Line 1	111.58	106.37 (24")	6.5
2+15.04 Line 4	113.02	108.64 (8")	5.0
3+27.98 Line 5	113.84	109.48 (8")	5.0
3+22.00 Line 6	110.83	108.95 (8")	4.5

** CAUTION! WEEP HOLES TO BE KEPT CLEAR DURING CONSTRUCTION AND BACKFILL. CONCRETE FOR THRUST BLOCKING SHALL NOT OBSTRUCT WEEP HOLES.

CONCRETE THRUST BLOCKING SHALL BE KEPT CLEAR OF BOLTS, NUTS, AND MJ ACCESSORIES.

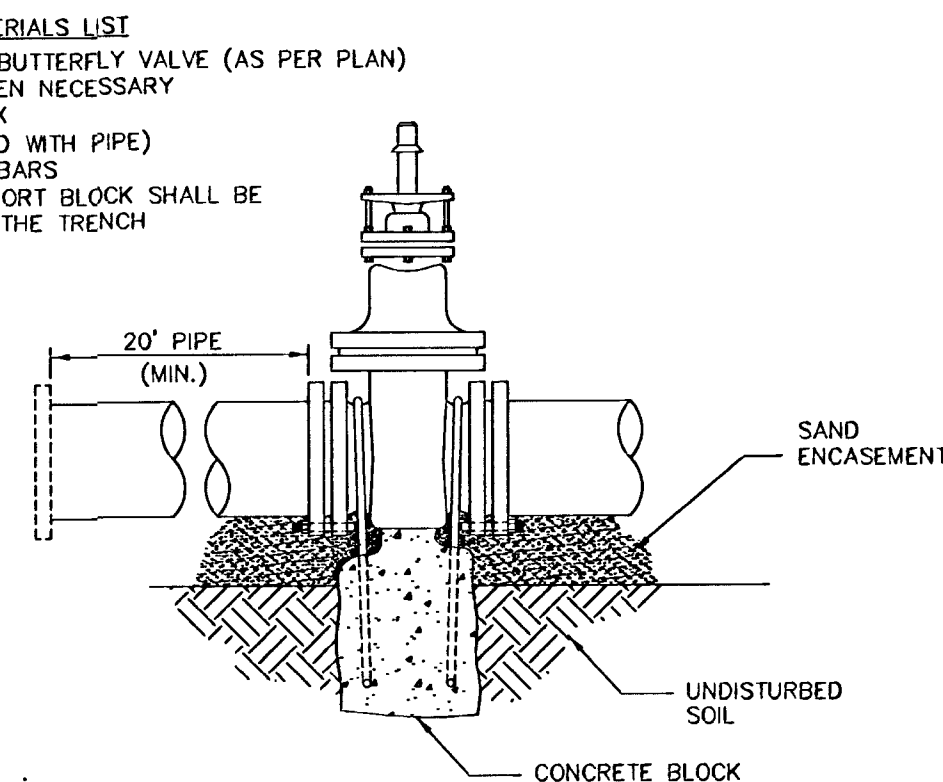
* IF HYDRANT BURY IS IN EXCESS OF 5', CONTRACTOR SHALL USE STANDARD 5' HYDRANT BURY AND HYDRANT BARREL EXTENSIONS AS NECESSARY.

MATERIALS LIST
1-MJ ANCHOR TEE ("D" x 6")
1-6" MJ GATE VALVE
1-6" VALVE BOX
6" DI. SJ PIPE (LENGTH VARIABLE)
1-FIRE HYDRANT
CONCRETE BLOCKING (AS NEEDED)

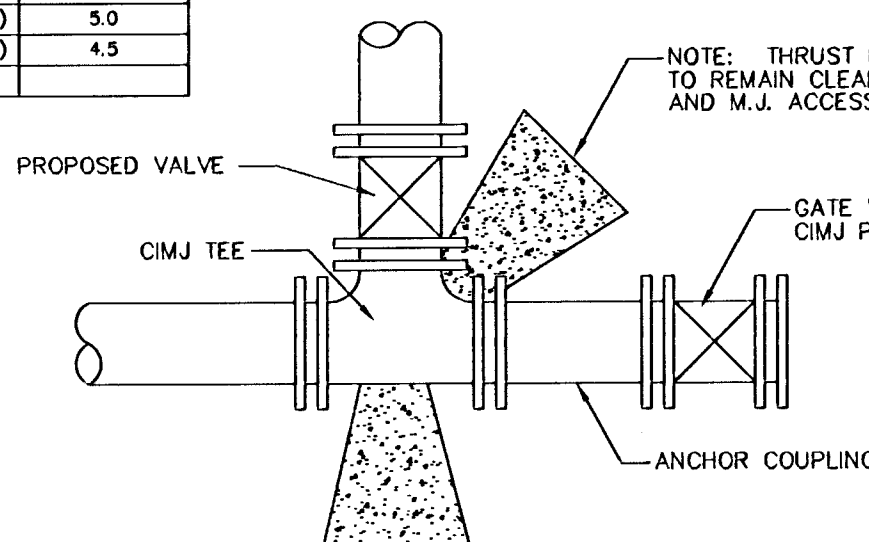


- Notes:**
- Concrete Block at Valve to have sufficient bearing in undisturbed soil to prevent thrust movement as shown in table at right. Field Engineer to determine thrust loading of undisturbed soil and final size of thrust block.
 - The thrust block shall be constructed such that bolts, nuts, and other MJ accessories are kept clear of concrete.
 - All valves at dead ends and at other locations as called out on the plans shall be blocked as shown here.

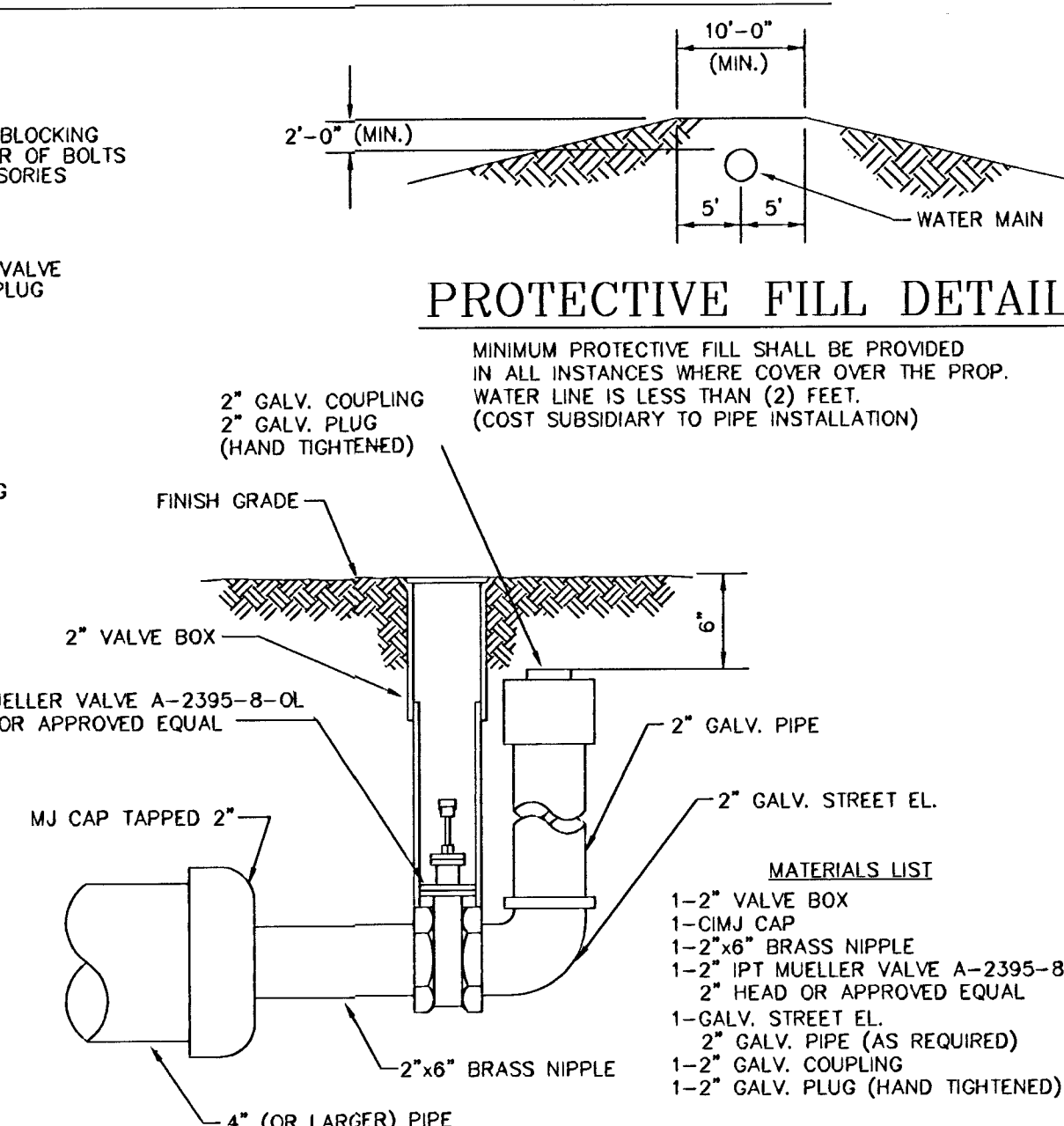
ANCHORED VALVE ASSEMBLY, SPECIAL



THRUST AT VALVES	
VALVE	THRUST AT 150 PSI
4"	1809 lbs.
6"	4245 lbs.
8"	7540 lbs.
12"	16965 lbs.



KEY BLOCK DETAIL



2" BLOWOFF ASSEMBLY

MATERIALS LIST
1-2" VALVE BOX
1-CIMJ CAP
1-2"x6" BRASS NIPPLE
1-2" IPT MUELLER VALVE A-2395-8-OL
2" HEAD OR APPROVED EQUAL
1-GALV. STREET EL.
2" GALV. PIPE (AS REQUIRED)
1-2" GALV. COUPLING
1-2" GALV. PLUG (HAND TIGHTENED)

TRACER WIRE DETAIL

COST IS SUBSIDIARY TO PIPE INSTALLATION



Standard Water Assembly Details

PROJECT NO. 448 89643
MVP PROJECT NO. 101008
DATE: August 7, 2002
REVISED: August 30, 2002

SHEET

CV 7.1

WEST DOUGLAS STREETSCAPE
ARKANSAS RIVER TO SENECA
WICHITA, KANSAS

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