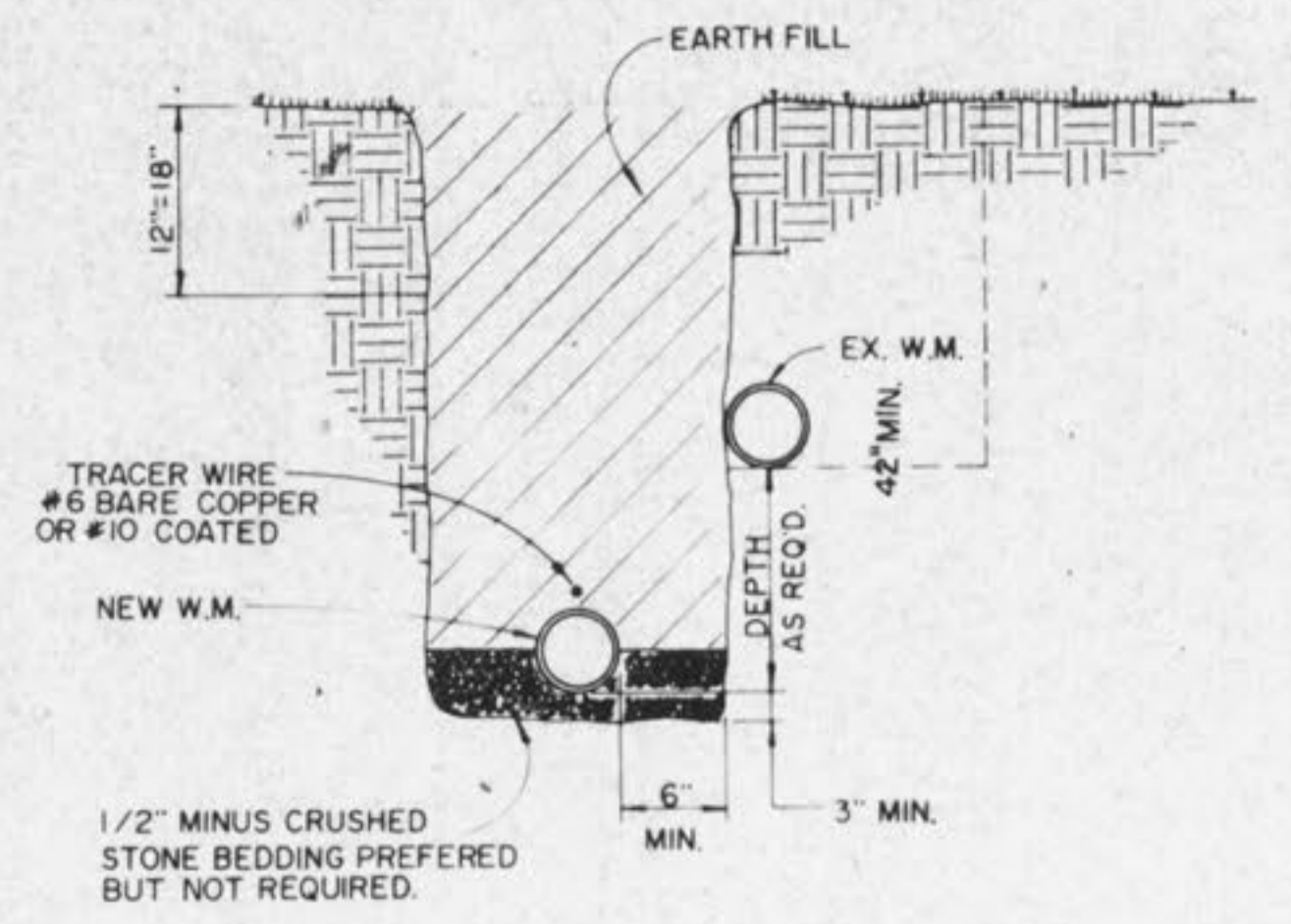
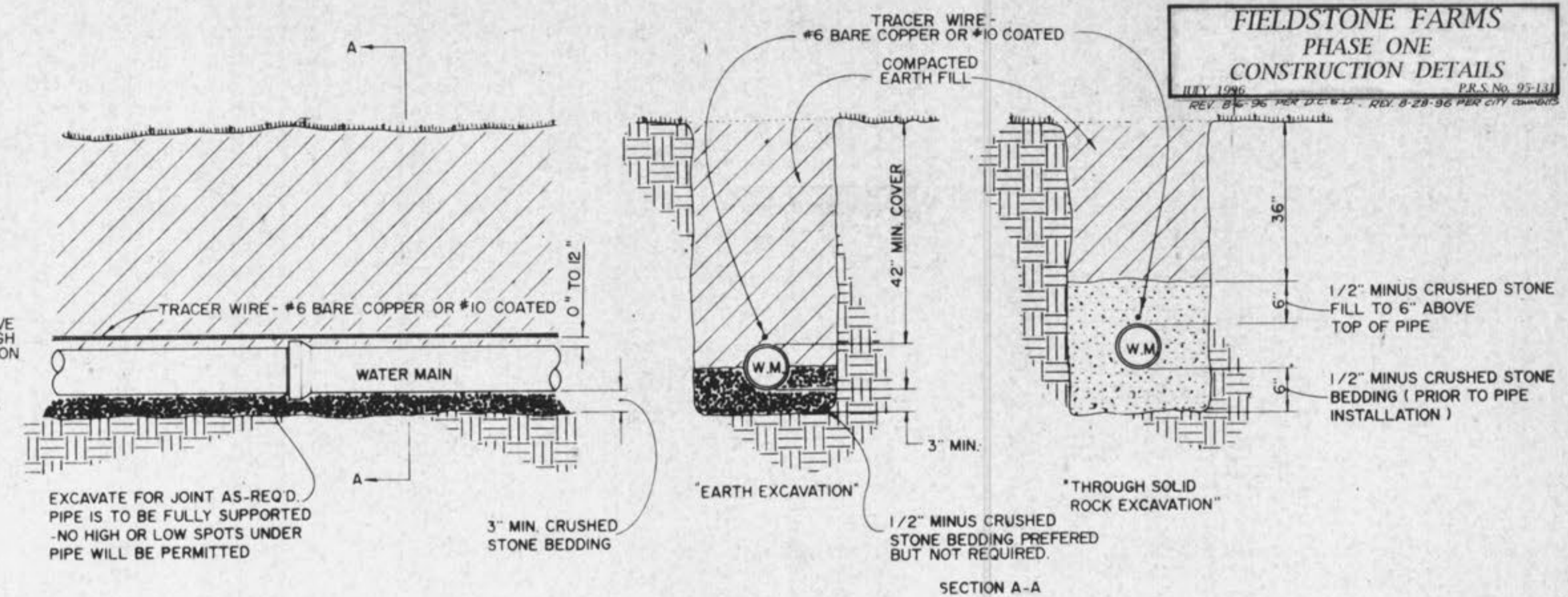


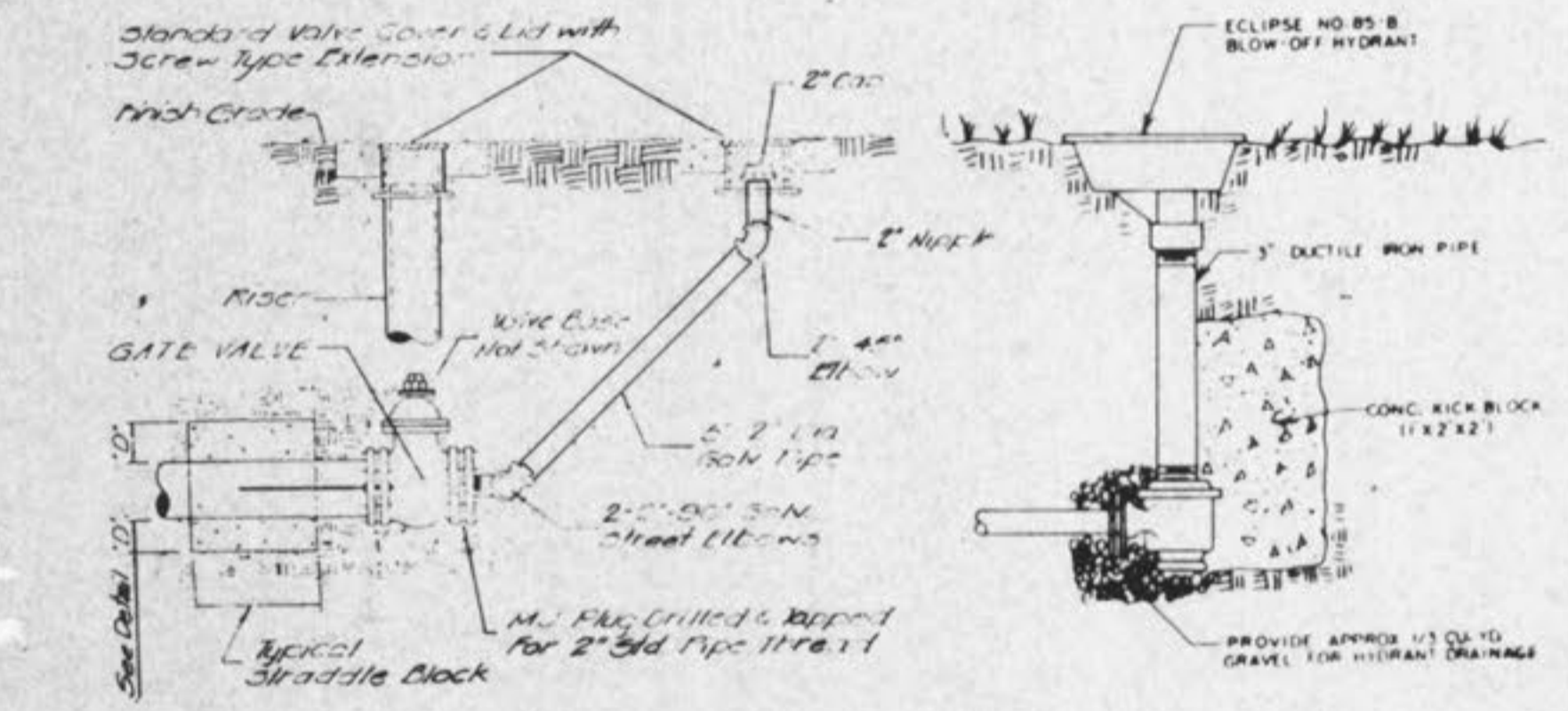
TYPICAL PAVED STREET OR ROAD TRENCH BACKFILL & SURFACE REPLACEMENT DETAIL
N.T.S.



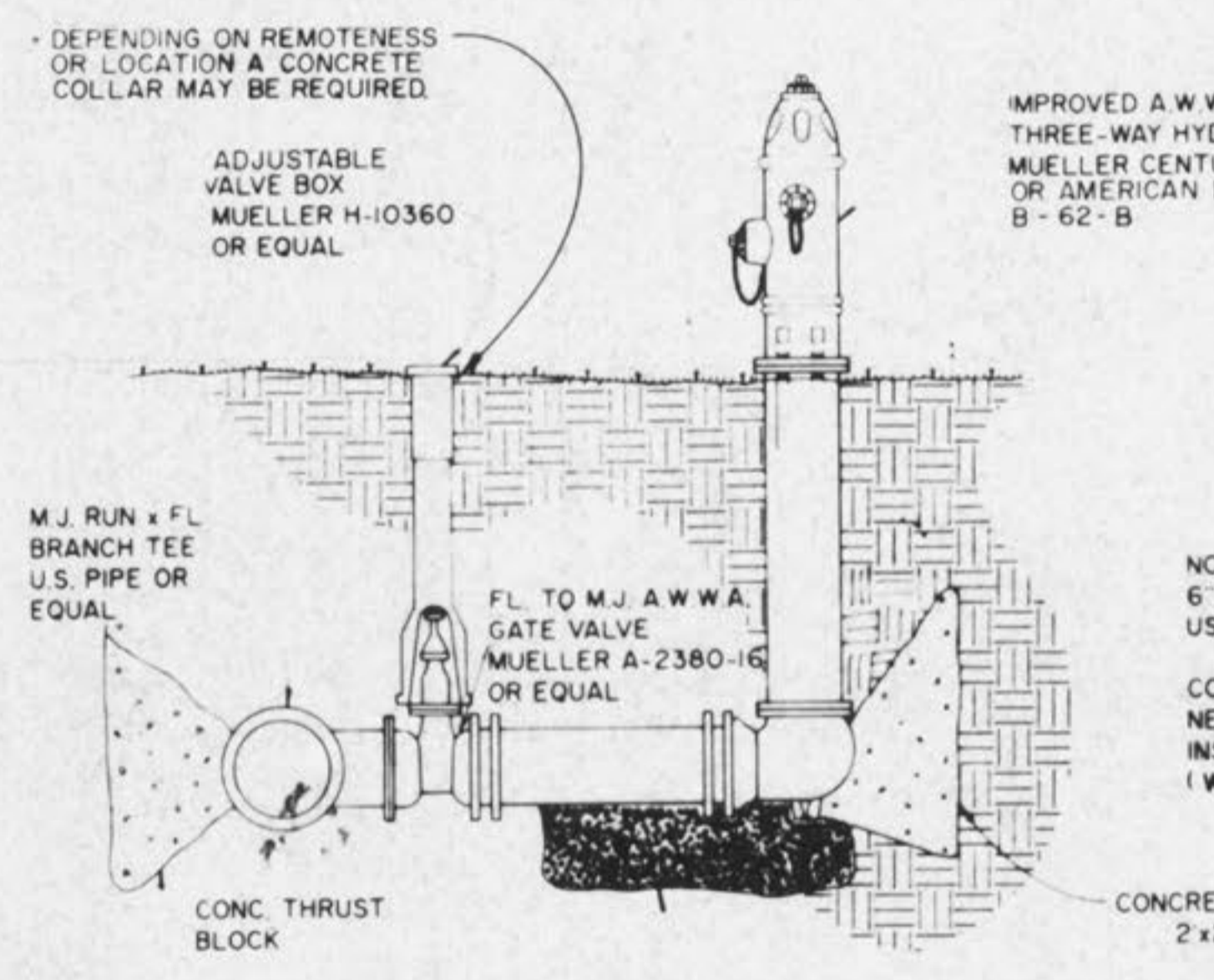
TYPICAL WATER MAIN LOWERING DETAIL
N.T.S.



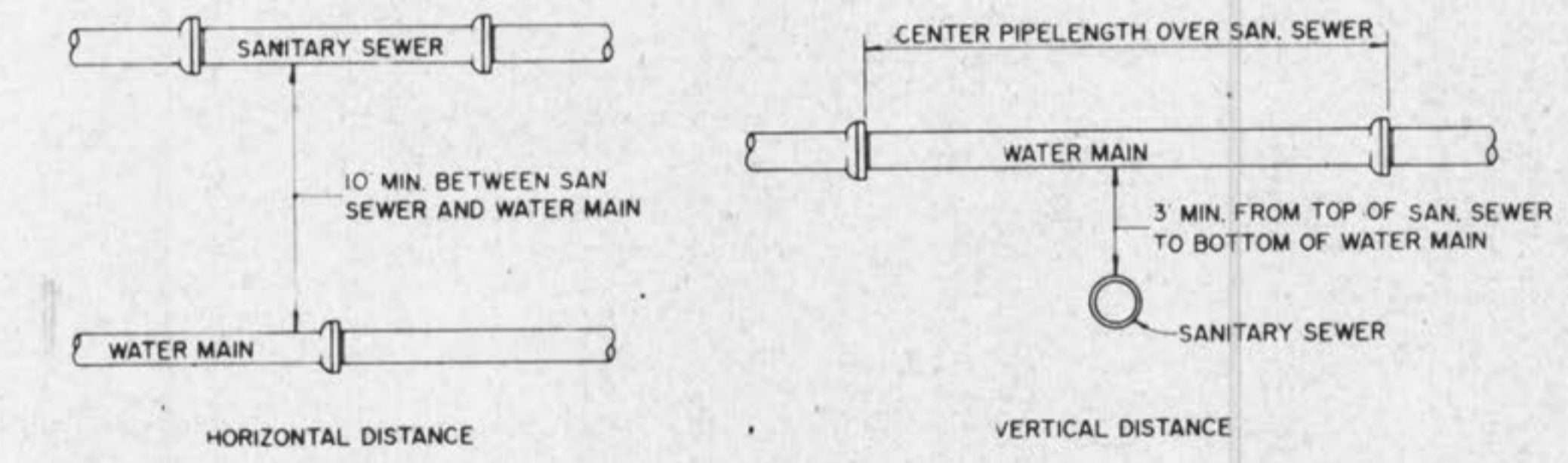
TYPICAL WATER MAIN INSTALLATION DETAIL
N.T.S.



BLOW-OFF DETAILS



FIRE HYDRANT INSTALLATION DETAIL
N.T.S.



TYPICAL WATER & SEWER SEPARATION
N.T.S.

THRUST BLOCK SCHEDULE

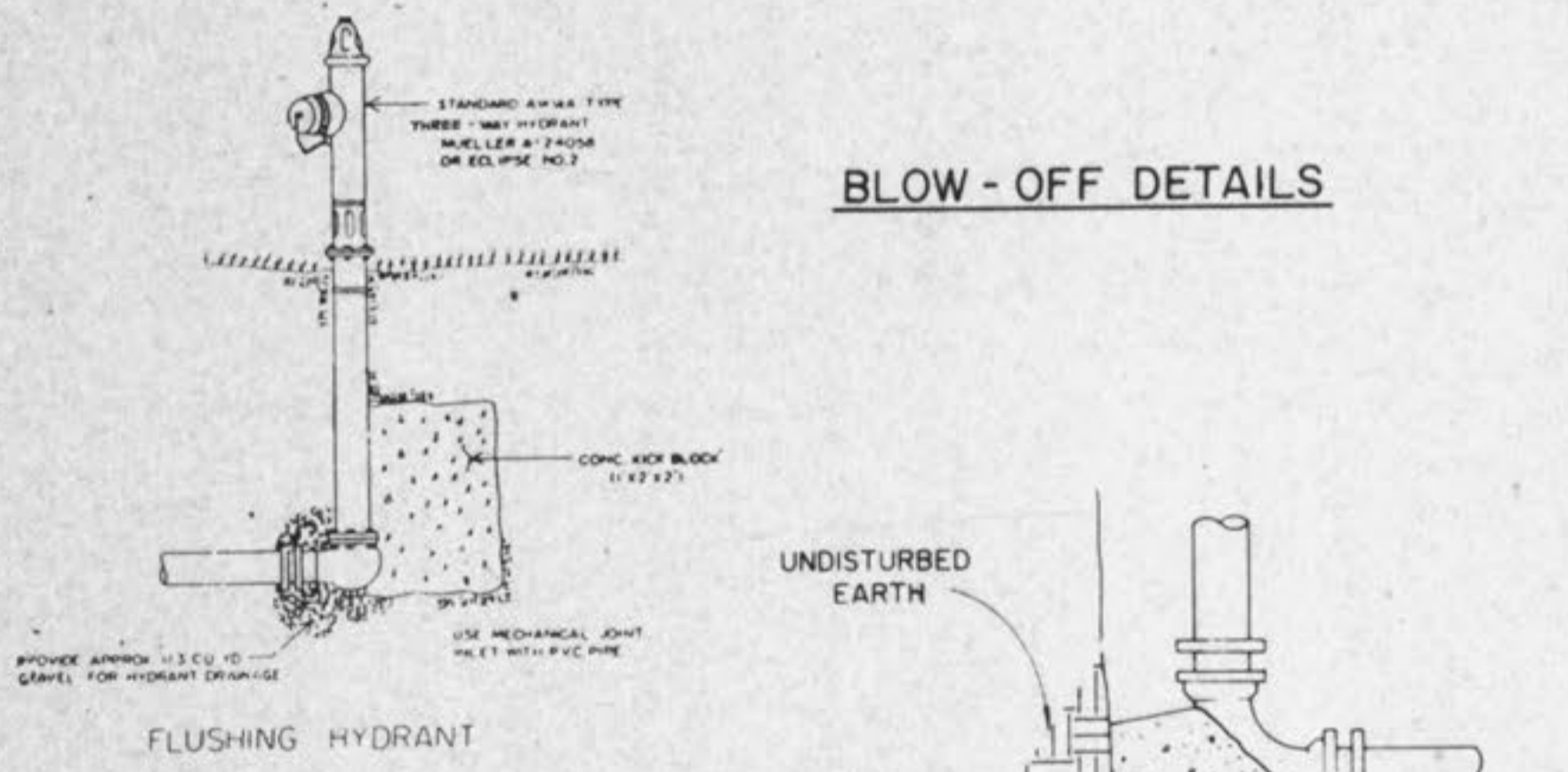
NOTES:
1. 2" & 4" FITTINGS EQUIVALENT TO 6" FITTINGS.
2. TAPPING SLEEVES TO HAVE BACKING BLOCKS SAME SIZE AS REQUIRED FOR TEES.

SECTION 1-1					SECTION 2-2				
BENDS	B	C	D	A	TEES	G	H	J	K
6" x 2 1/2"	5	5	2	23	6" x 6" x 6"	12"	24"	24"	18"
2" x 4"	5	5	2	23	8" x 8" x 8"	12"	24"	24"	18"
6" x 30"	5	5	2	23	12" x 12" x 12"	12"	24"	24"	18"
8" x 11 1/4"	8	20"	12"	24"	12" x 12" x 15"	12"	24"	24"	24"
8" x 22 1/2"	8	22"	12"	24"	12" x 12" x 18"	12"	24"	24"	24"
8" x 45"	8	30"	12"	24"					
8" x 90"	8	35"	12"	24"					
12" x 11 1/4"	8	30"	12"	24"					
12" x 22 1/2"	8	35"	12"	24"					
12" x 45"	8	40"	12"	24"					
12" x 90"	8	60"	12"	24"					

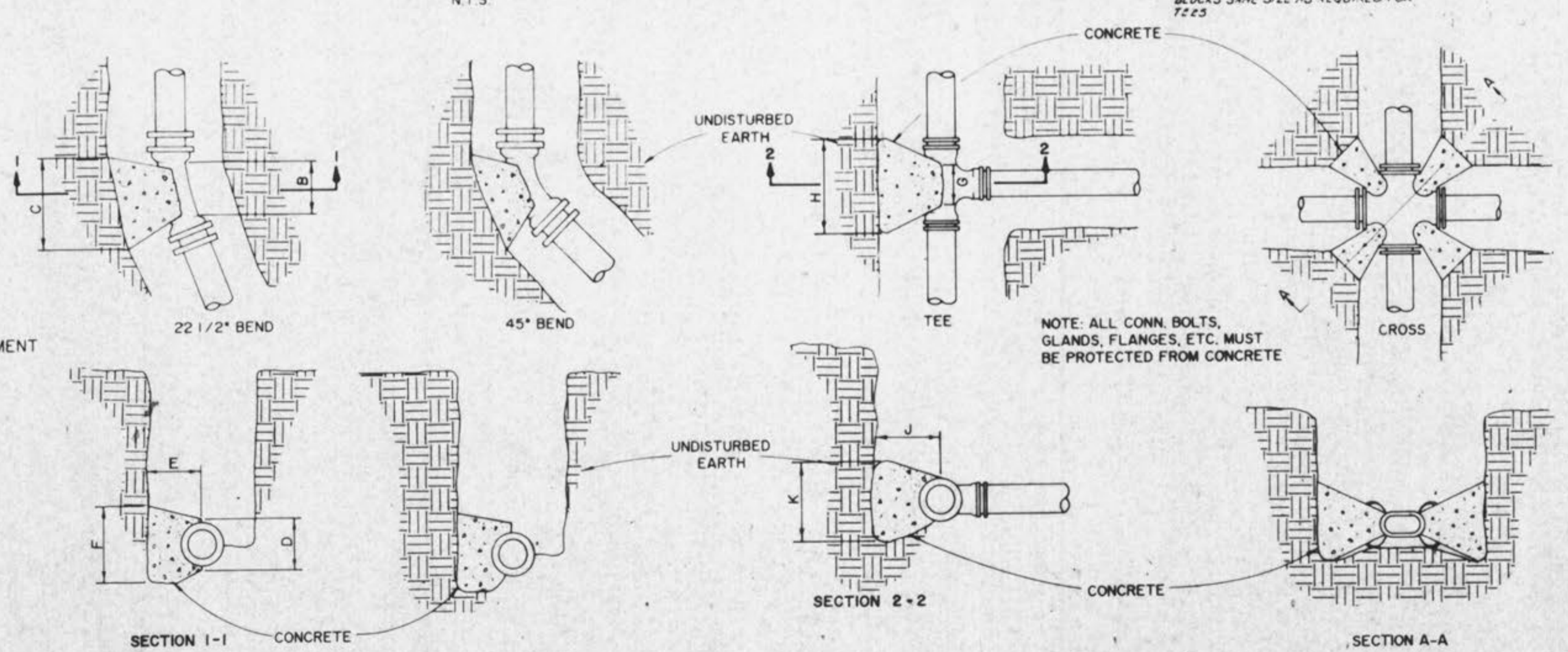
CUBIC FEET OF CONCRETE REQUIRED				
BEND	11 1/4"	22 1/2"	45"	90"
6"	17	24	33	33
8"	21	31	50	50
12"	37	53	97	173

TEE x			
6"	8"	12"	PLUS
6"	40	~	40
8"	40	50	50
12"	45	55	105

THRUST BLOCK SCHEDULE



TYPICAL FIRE HYDRANT LOCATION DETAIL
N.T.S.



TYPICAL THRUST BLOCK DETAILS
N.T.S.

- GENERAL NOTES**
- At road or driveway crossings, or under public paved areas, trench backfill is to be crushed stone or gravel, compacted by water jetting or by mechanical tamping in ten inch lifts to achieve 90% compaction determined by the Modified AASHTO T-160 Compaction Test.
 - All other trench backfill shall be placed in the trench and compacted by jetting or mechanical means to a density adequate to prevent ditch settlement.
 - All connections to the City water system shall be subject to the City Backflow Prevention Ordinance (#1592) and all other regulations that may be adopted from time to time by the United States Environmental Protection Agency, the Missouri Department of Natural Resources, or the City of O'Fallon, Missouri.

NOTE: 4" WATERMAIN IS FOR SERVICE LINES ONLY!