

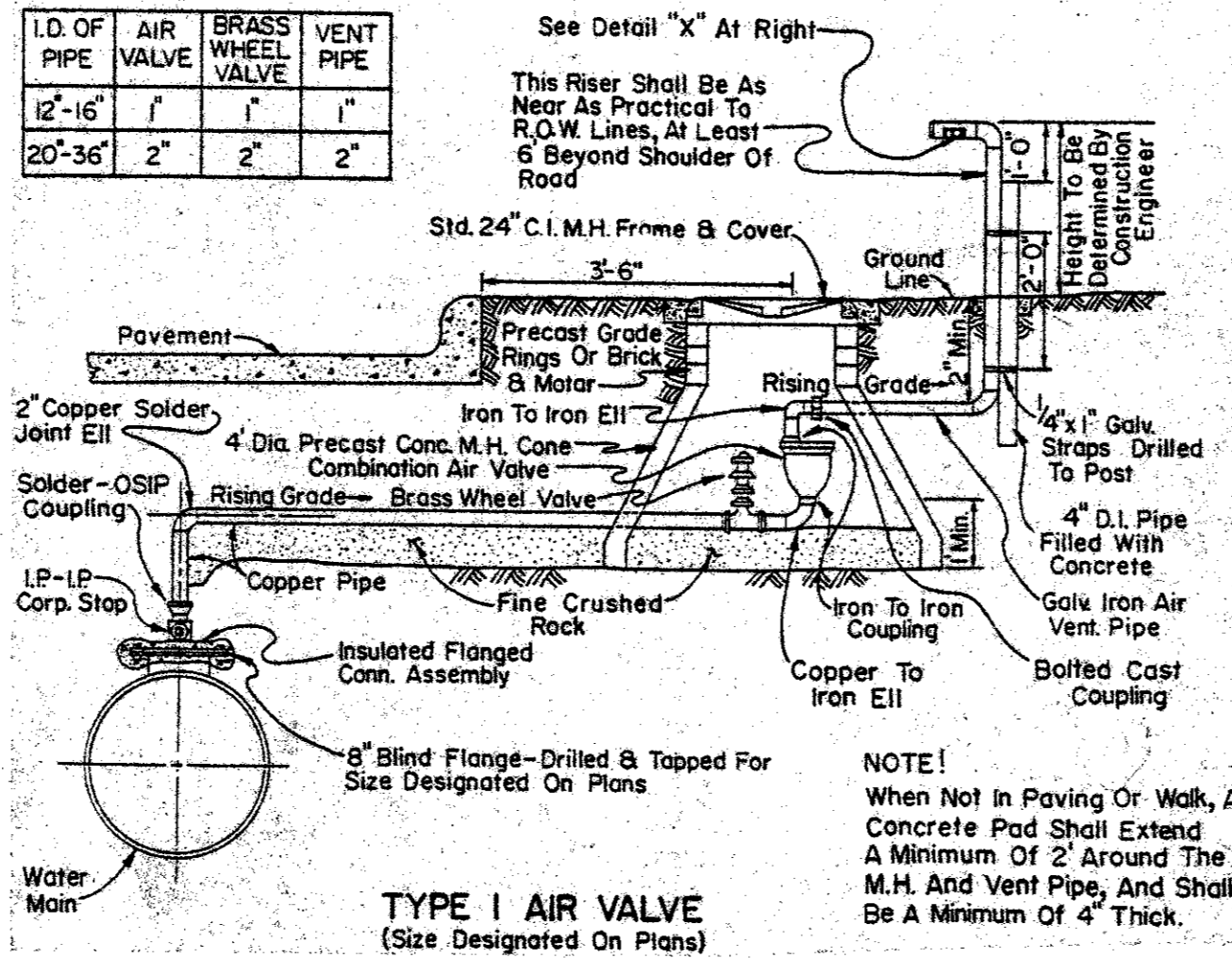
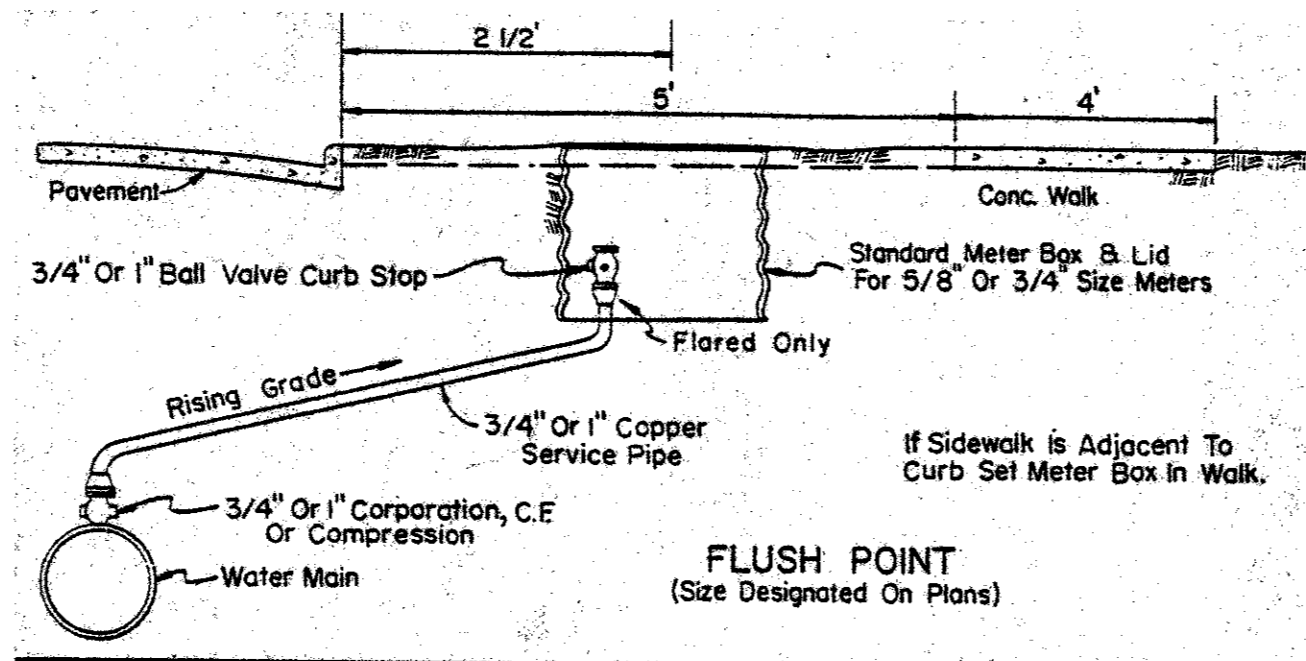
SIZE REQUIREMENTS FOR BYPASS VALVES	
Valve Diameter	Bypass Diameter
16"-20"	3"
24"-30"	4"
36"-42"	6"
48"	8"
Above 48" Will Be Stated On Plan.	

General Notes

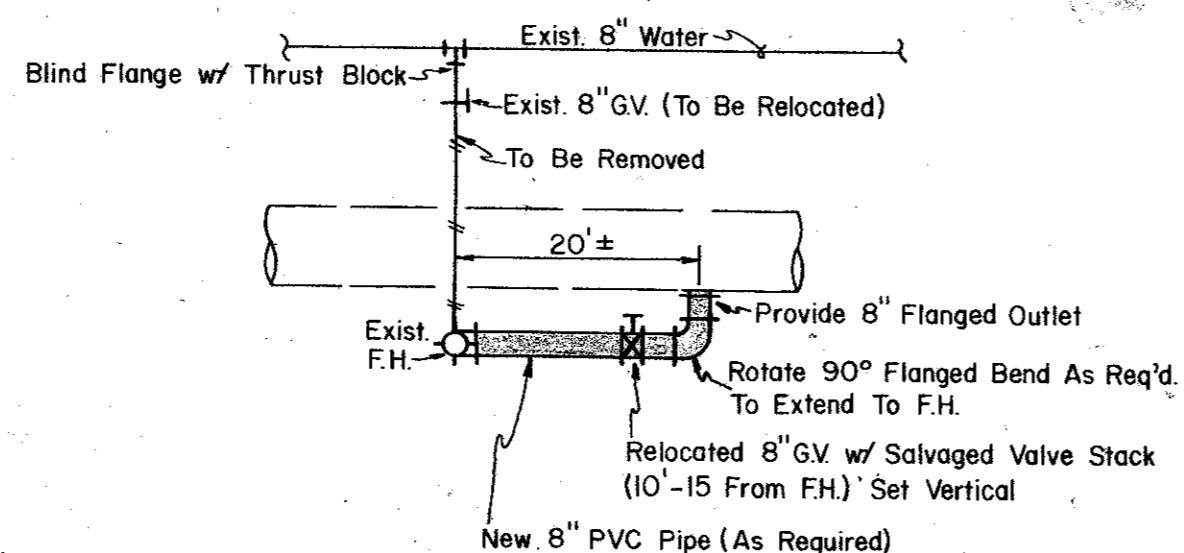
- In open country, a concrete pad shall extend a minimum of 2' around the M.H. and bypass stack and shall be a minimum of 4" thick.
- Reinforcing steel may be omitted for valves 24" and smaller.
- Precast grade rings or brick and mortar riser shall be eliminated and top of M.H. placed at 8" minimum above existing grade when not in existing or proposed street (open country). Standard 40" M.H. frame and cover shall be set in M.H. top (for this case only).

HORIZONTAL BUTTERFLY VALVE INSTALLATION

All Items Shown Herein Are Complete-In-Place And Shall Not Be Separate Pay Items, Include In Pay Item No. 102.1 or 102.2.

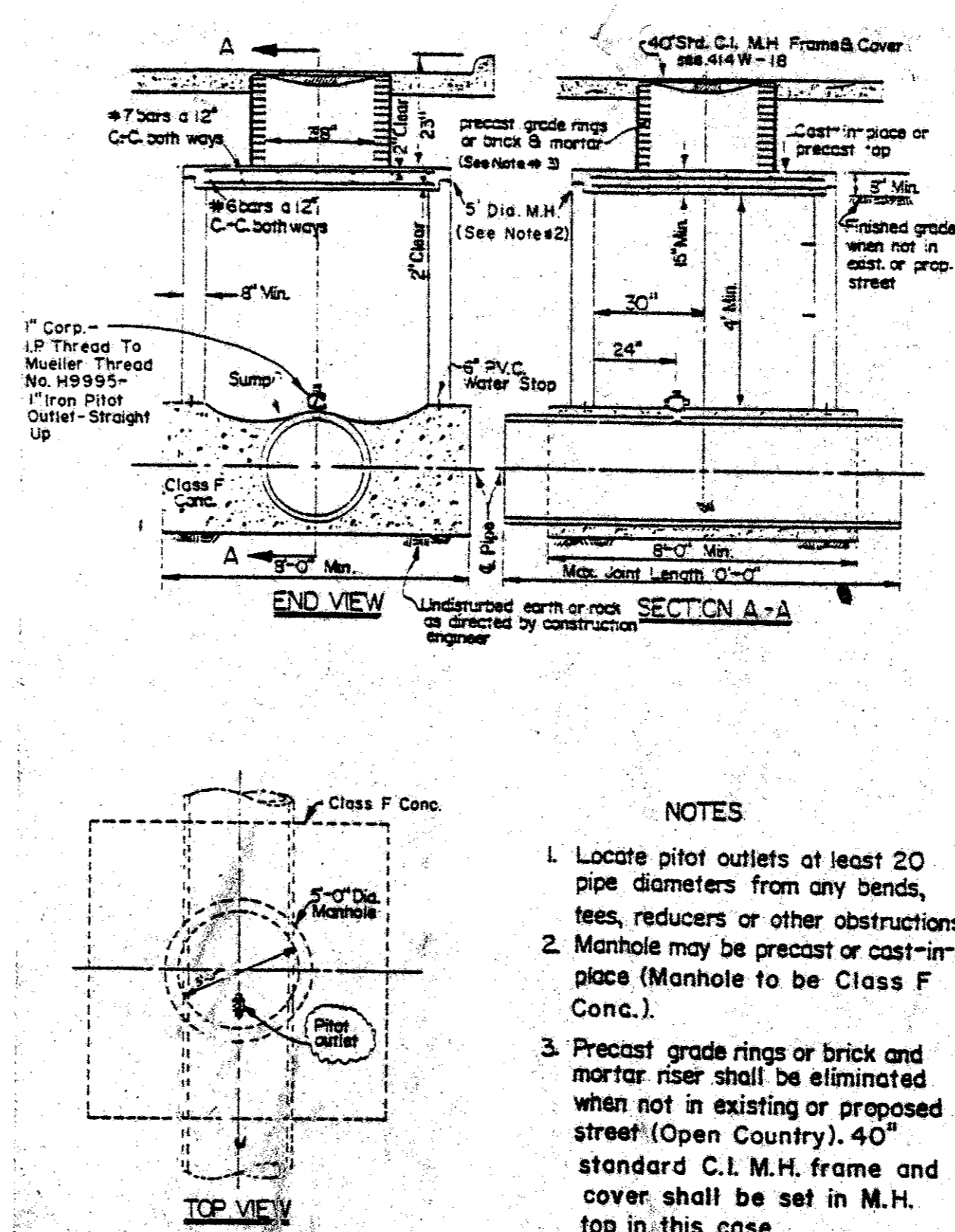


TYPE I AIR VALVE INSTALLATION & FLUSH POINT INSTALLATION



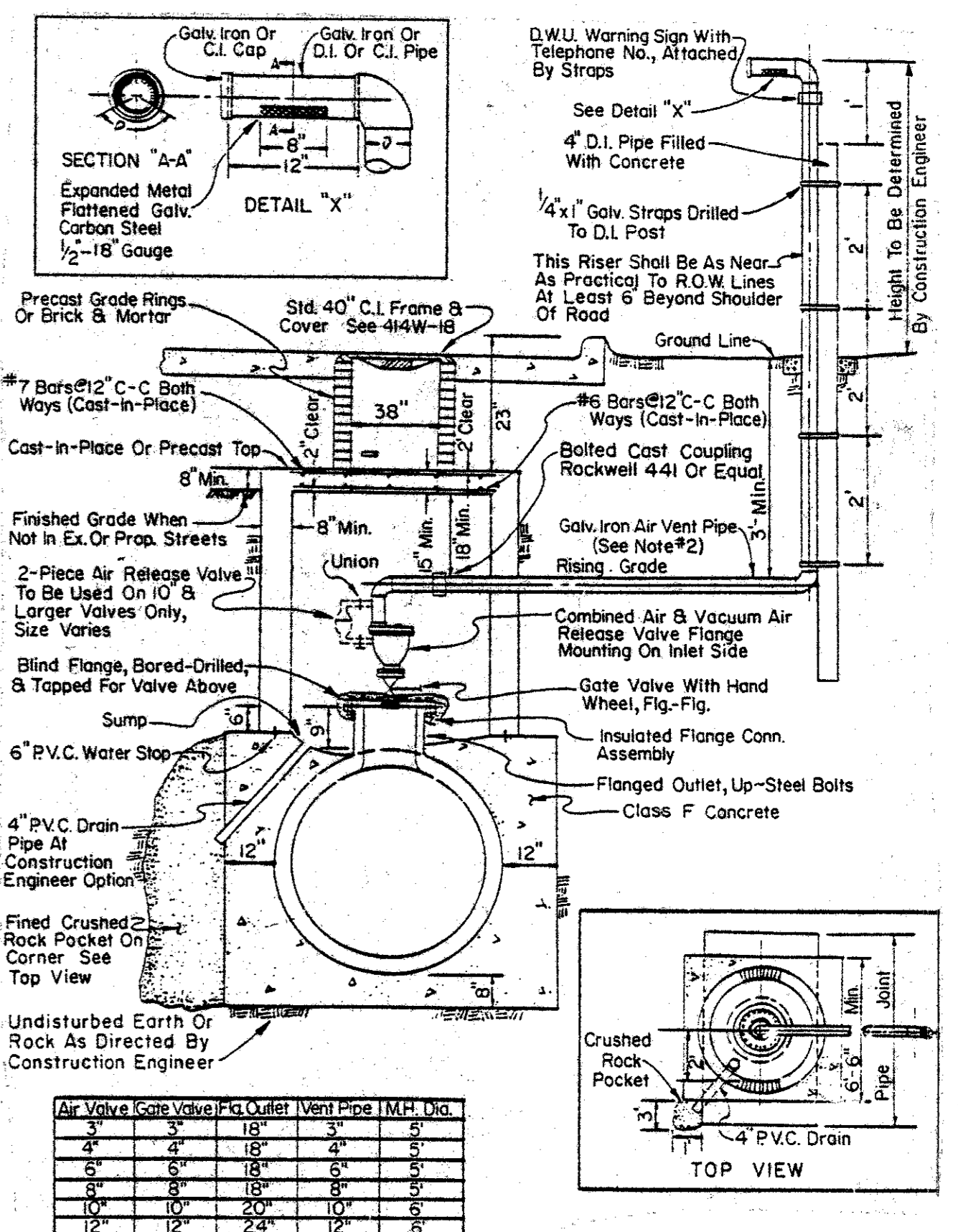
TYP. FIRE HYDRANT RELOCATION DETAIL

Pay Item No. 106.5
Shall Include All Items Shown Above In Detail Including Pavement Removal And Replacement Not Paid For Under Item 101.1



PITOT OUTLET

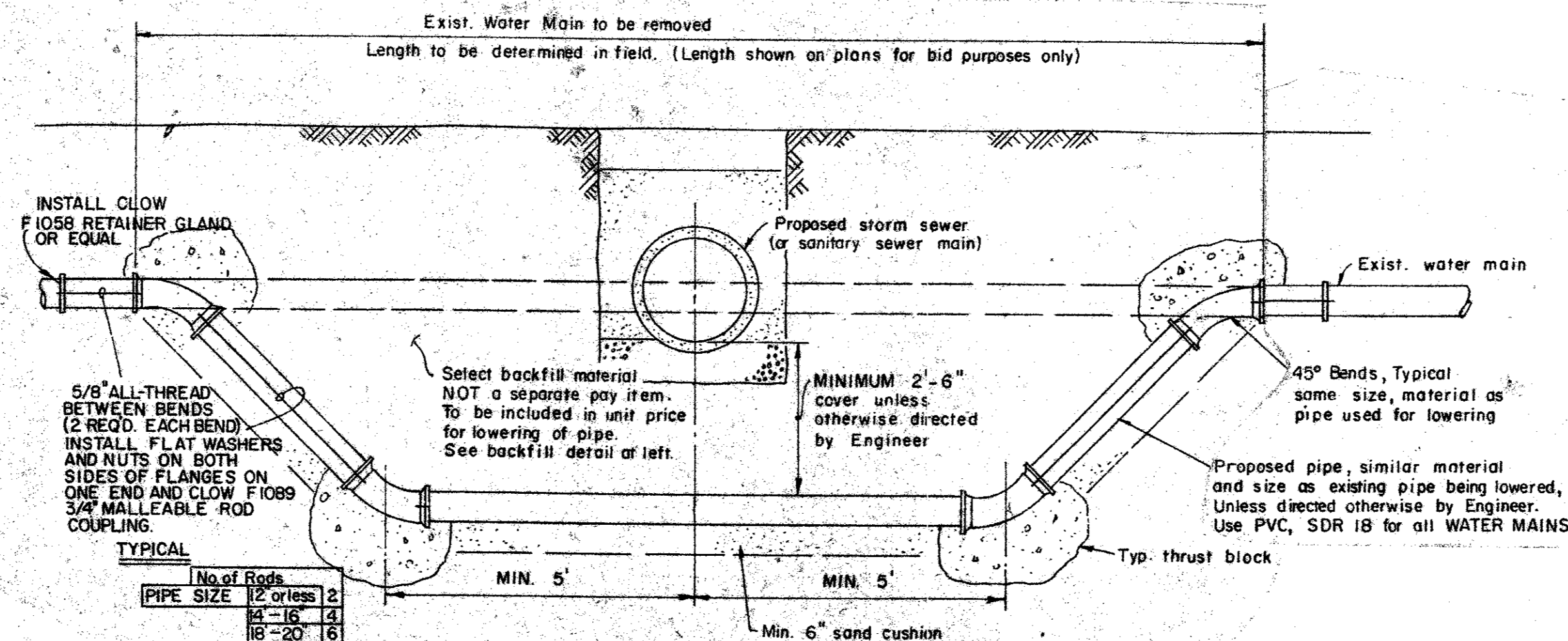
- NOTES**
- Locate pitot outlets at least 20 pipe diameters from any bends, tees, reducers or other obstructions.
 - Manhole may be precast or cast-in-place (Manhole to be Class F Conc.).
 - Precast grade rings or brick and mortar riser shall be eliminated when not in existing or proposed street (Open Country). 40" standard C.I. M.H. frame and cover shall be set in M.H. top in this case.



General Notes

- On 10" and larger two piece combination air valve, the outlet piping of the small valve shall be vented into the side of the larger vent pipe that goes above ground. Tapping saddle to be used, if required by construction engineer.
- Air vent pipe 6" and larger shall be D.I. pipe with flange fittings ordered special with Inertol Rustinhibitive Primer 621 or equal in lieu of coal tar. Pipe shall be painted with Rustamler 500 (aluminum color) per manufacturer's instructions prior to installation.
- Manhole may be Precast or Cast-in-Place (M.H. to be Class F concrete).
- Precast grade rings or brick and mortar riser shall be eliminated and top of M.H. placed at 8" minimum above existing grade when not in existing or proposed street (open country). Standard 40" M.H. frame and cover shall be set in M.H. top (for this case only).
- In open country, a concrete pad shall extend a minimum of 2' around the M.H. and vent pipe and shall be a minimum of 4" thick.

TYPE 2 AIR VALVE INSTALLATION



TYPICAL "LOWERING" DETAIL

No.	Revision	By	Date
TOWN OF ADDISON DALLAS COUNTY, TEXAS CROSTOWN WATER LINE			
VALVE DETAILS			
GINN, INC. Consulting Engineers Dallas, Texas			
Designed - MP	Drawn - GAP	Date - NOVEMBER, 1984	Job No. - 216
Approved - HWG	Checked - GF	Scale -	Sheet 19 OF 20