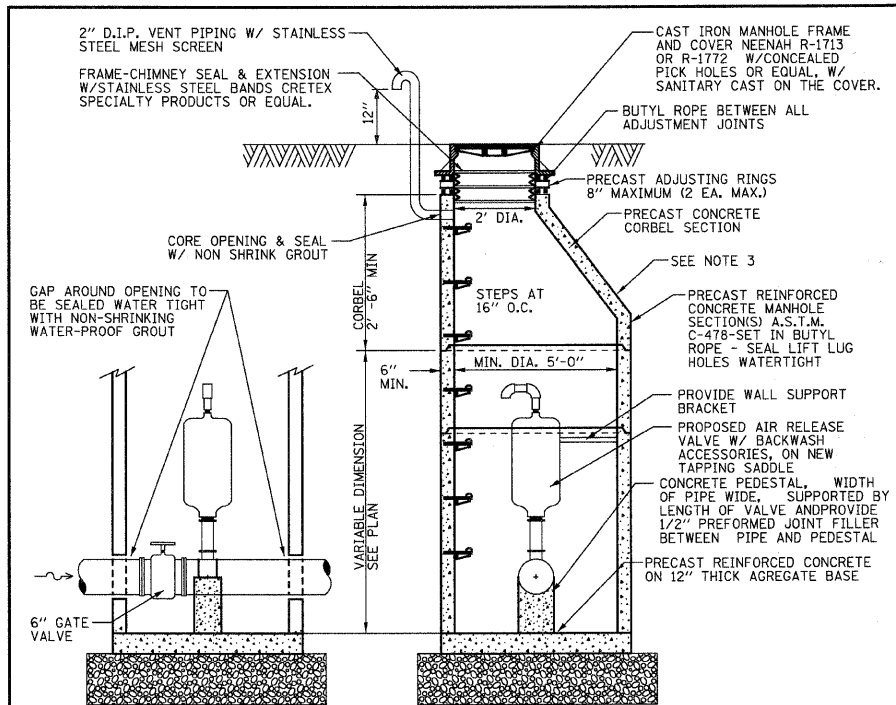


NOTES:

- FOR MAXIMUM TRENCH WIDTH "W" AT TOP OF CONDUIT SEE SECTION 20-2.03. *
 - TRENCH BOX SHALL NOT EXTEND BELOW TOP OF PIPE UNLESS OTHERWISE SPECIFIED.
 - LIMITS FOR EXCAVATING FOR PAYMENT PURPOSES ARE AS SHOWN, SEE TABLE NO. 1 * ON STANDARD DRAWING NO. 2 *. ANY FLARE OR EXCAVATION BEYOND THESE LIMITS WILL BE BACKFILLED AS SPECIFIED AT THE EXPENSE OF THE CONTRACTOR.
- * ACCORDING TO STANDARD SPECIFICATIONS FOR WATER & SEWER MAIN CONSTRUCTION IN ILLINOIS, LATEST EDITION

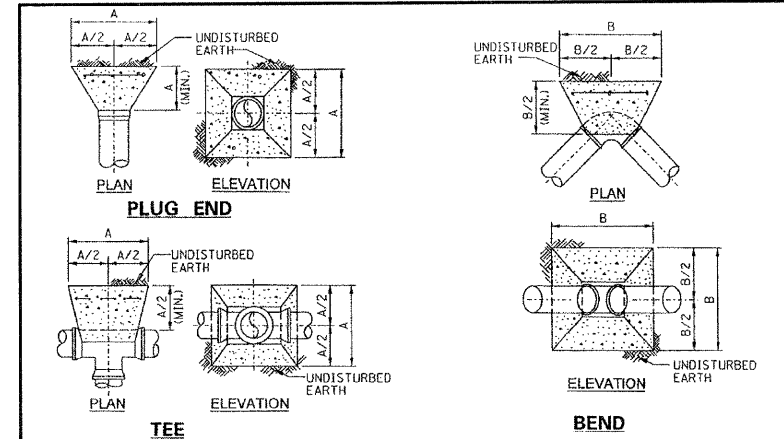
TYPICAL DETAIL OF FORCE MAIN INSTALLATION



NOTES:

- STEPS ARE REQUIRED, UNLESS DELETED BY SPECIAL PROVISION
- SEPARATE SANITARY SEWER MANHOLES SUBJECT TO SATURATED SOIL CONDITIONS OR SURFACE SUBMERGENCE SHALL BE EQUIPPED WITH CHIMNEY SEALS AND WATER TIGHT MANHOLE COVERS.
- OUTER SURFACES OF PRECAST AND CAST-IN-PLACE MANHOLES SHALL BE GIVEN TWO (2) COATS OF BITUMINOUS DAMPPROOFING AT THE RATE OF 30 - 60 SQ FT PER GALLON AS DIRECTED BY THE ENGINEER AND IN ACCORDANCE WITH THE MANUFACTURER'S INSTRUCTIONS.

SANITARY MANHOLE TYPE A

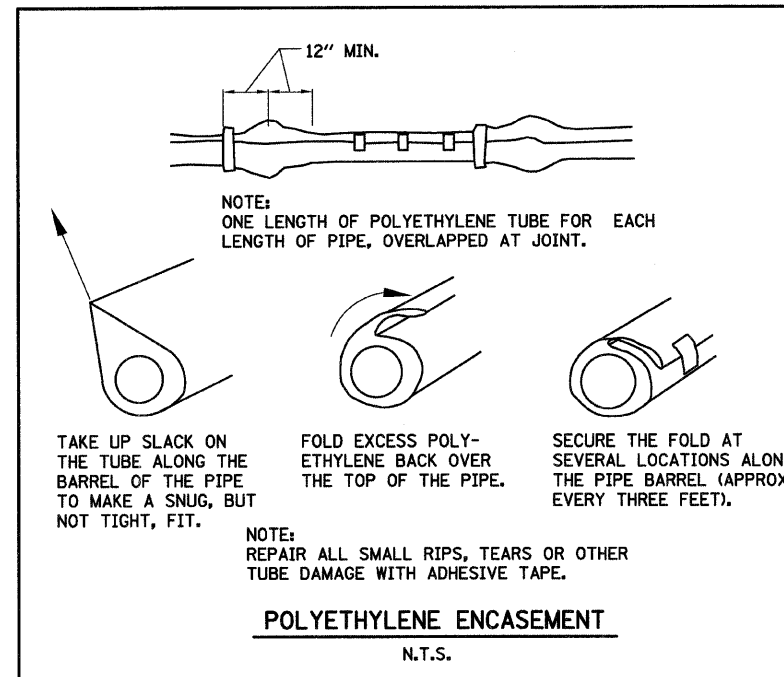


TEST PRESSURE (PSI)	TABLE OF "A" DIMENSION (IN FEET)						TEST PRESSURE (PSI)	TABLE OF "B" DIMENSION (IN FEET)							
	PIPE SIZE (NOMINAL DIA. IN INCHES)							PIPE SIZE (NOMINAL DIA. IN INCHES)							
100	1'-2"	1'-7"	2'-1"	2'-7"	3'-1"	4'-0"	5'-0"	90°	1'-4"	1'-11"	2'-6"	3'-1"	3'-8"	4'-9"	5'-11"
115	1'-3"	1'-9"	2'-3"	2'-9"	3'-3"	4'-4"	5'-4"	45°	1'-0"	1'-5"	1'-10"	2'-3"	2'-8"	3'-5"	4'-4"
130	1'-3"	1'-10"	2'-5"	2'-11"	3'-6"	4'-7"	5'-8"	11-1/4°	0'-9"	1'-4"	1'-9"	2'-4"	2'-9"	3'-6"	4'-3"
150	1'-4"	2'-0"	2'-7"	3'-2"	3'-9"	4'-11"	6'-1"	90°	1'-5"	2'-1"	2'-8"	3'-3"	3'-11"	5'-1"	6'-4"
								45°	1'-1"	1'-6"	2'-0"	2'-5"	2'-10"	3'-9"	4'-8"
								11-1/4°	0'-9"	1'-4"	1'-9"	2'-4"	2'-9"	3'-6"	4'-3"
								90°	1'-6"	2'-2"	2'-10"	3'-6"	4'-2"	5'-5"	6'-9"
								45°	1'-2"	1'-7"	2'-1"	2'-7"	3'-1"	4'-0"	5'-0"
								11-1/4°	0'-7"	1'-2"	1'-6"	2'-1"	2'-7"	3'-1"	4'-0"
								90°	1'-8"	2'-4"	3'-1"	3'-9"	4'-5"	5'-10"	7'-3"
								45°	1'-3"	1'-9"	2'-3"	2'-9"	3'-3"	4'-4"	5'-4"
								11-1/4°	0'-8"	1'-3"	1'-8"	2'-0"	2'-4"	3'-1"	3'-10"
								90°	1'-7"	2'-3"	3'-0"	3'-7"	4'-3"	5'-9"	7'-3"

NOTES:

- THRUST BLOCKS SHALL BE CONSTRUCTED OF CLASS "X" CONCRETE
- REINFORCING STEEL SHALL BE: FOR TEST PRESSURES OF 100 PSI - #4 @ 12" E.W., 115 PSI - #4 @ 12" E.W., 130 PSI - #5 @ 12" E.W., 150 PSI - #5 @ 12" E.W.
- THRUST BLOCK SIZE FOR TEE DETERMINED BY SMALLEST DIAMETER OF TEE AND TEST PRESSURE OF LINE. ALL THRUST BLOCK SIZES SHOWN ARE BASED ON A MINIMUM SOIL BEARING PRESSURE OF 1500 PSI (STANDARD PROCTOR). SEE PLAN SHEETS FOR SPECIFIC REQUIREMENTS IN SPECIAL SOILS AND ROCK AREAS.

THRUST BLOCK DETAILS



NOTE:
ONE LENGTH OF POLYETHYLENE TUBE FOR EACH LENGTH OF PIPE, OVERLAPPED AT JOINT.

- TAKE UP SLACK ON THE TUBE ALONG THE BARREL OF THE PIPE TO MAKE A SNUG, BUT NOT TIGHT, FIT.
- FOLD EXCESS POLYETHYLENE BACK OVER THE TOP OF THE PIPE.
- SECURE THE FOLD AT SEVERAL LOCATIONS ALONG THE PIPE BARREL (APPROX. EVERY THREE FEET).

NOTE:
REPAIR ALL SMALL RIPS, TEARS OR OTHER TUBE DAMAGE WITH ADHESIVE TAPE.

POLYETHYLENE ENCASEMENT
N.T.S.

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