

CONCRETE THRUST BLOCK DIMENSIONS												
PIPE SIZE	11-15° BEND		22-30° BEND		45°-BEND		90°-BEND		TEE & PLUG			
DIAMETER	Н	L	Н	L	Н	L	Н	L	Н	L		
< 8''	1'-6''	1'-6''	2'-0''	2'-6''	2'-6''	3'-0''	3'-6''	4'-0''	3'-0''	3′-6′′		
< 12''	1'-6''	2'-0''	2'-3"	2'-6''	3'-0''	3'-6''	4'-0''	4'-6''	3′-6′′	4'-0''		
< 16''	2'-0''	2'-0''	2'-6''	3'-0''	4'-0''	4'-6''	5′-0′′	6'-0''	4'-6''	5′-6′′		

- THRUST BLOCK NOTES:

 1. ALL BLOCKING SHALL BE CONSTRUCTED WITH POURED CL. X CONCRETE AGAINST UNDISTURBED VERTICAL EARTH FACE WITH A MINIMUM WIDTH OF 12 INCHES.

 2. THRUST BLOCKS MUST BE USED AT ALL BENDS 11° DEGREES OR GREATER.

 3. RESTRAINED JOINT PIPE MAY BE USED AS AN ALTERNATIVE TO CONCRETE THRUST BLOCKS WHEN APPOVED BY THE ENGINEER. THE CONTRACTOR MUST SUBMIT RESTRAINED JOINT LENGTHS WITH CALCULATIONS WHERE RESTRAINED JOINT PIPE IS TO BE USED. THE CALCULATIONS MUST BE SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF ILLINOIS.

 4. ALL PIPE PLACED UNDER PAVED ROADWAY MUST BE RESTRAINED JOINT PIPE. TRUST BLOCKING SHALL NOT BE REQUIRED IN THESE AREAS.

 5. TEST PRESSURE SHALL BE 150 PSI.

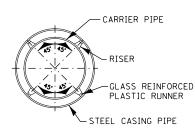
1' MAX. - STAINLESS STEEL BANDING CLAMPS →B RESTRAINED PUSH-ON-FILL VOIDS PER-JOINTS WITHIN CASING SPECIAL PROVISION RUBBER SEAL AND MORTAR CLOSE END (TYP. BOTH ENDS) CASING SPACERS SHALL BE SPACED AT A MAXIMUM OF ONE FOOT FROM -PULL-ON END SEAL (TYP. BOTH ENDS) EACH SIDE OF JOINT

BORING AND JACKING NOTES:

- JACKING AND BORING OPERATIONS AND CASING PIPE SHALL MEET THE
- REQUIREMENTS OF THE PROJECT SPECIAL PROVISIONS.

 ACCESS PITS SHALL BE LOCATED A MINIMUM 10 FEET FROM THE ROADWAY EDGE OF PAVEMENT AND BE LOCATED OUTSIDE OF THE I.D.O.T. HIGHWAY
- SHORING SHALL BE INSTALLED IMMEDIATELY DURING THE EXCAVATION OF ACCESS PITS AND SHALL CONFORM TO OSHA STANDARDS FOR TRENCH
- SHORING SHALL BE DESIGNED, ERECTED, SUPPORTED, BRACED, AND MAINTAINED SUCH THAT IT WILL SAFFELY SUPPORT ALL VERTICAL AND HORIZONTAL LOADS DURING CONSTRUCTION OPERATIONS.
- OPEN ACCESS PITS SHALL BE CLEARLY MARKED AND REMAIN PROTECTED
- WITH TEMPORARY CONCRETE BARRIERS AT ALL TIMES. BACKFILL ACCESS PITS WITH CA-6 AND COMPACT.

CASING PIPE DETAIL



STANDARD FRAME AND LID PER VILLAGE STANDARDS

-3/4" MASTIC

-PRECAST ADJUSTING RINGS (6" MAX., 2 RINGS MAX.)

-PRECAST VALVE VAULT

TAPPING VALVE

(FL X MJ)

-GROUT

6" MIN.

-PRECAST REINFORCED CONCRETE BASE SLAB ON A COMPACTED

FA-6 STONE CUSHION (4" MIN.)

-MASTIC JOINT

SECTION B-B

WATER MAIN THRUST BLOCKS

FILE NAME =	USER NAME = Frank_Stallone	DESIGNED - DF	REVISED -			F.A.P	SECTION	COUNTY TOTAL SHEET
D160M62-SHT-WATER08.dgn		DRAWN - DF	REVISED -	STATE OF ILLINOIS	WATER MAIN DETAILS	330	103R-5	COOK 778 237
	PLOT SCALE = 40.0000 '/ in.	CHECKED - TDW	REVISED -	DEPARTMENT OF TRANSPORTATION		500	WT-08	CONTRACT NO. 60M62
SHT_PLAN	PLOT DATE = 3/15/2013	DATE - 03/13/13	REVISED -		SCALE: NO SCALE SHEET 8 OF 8 SHEETS STA. TO STA.			AID PROJECT