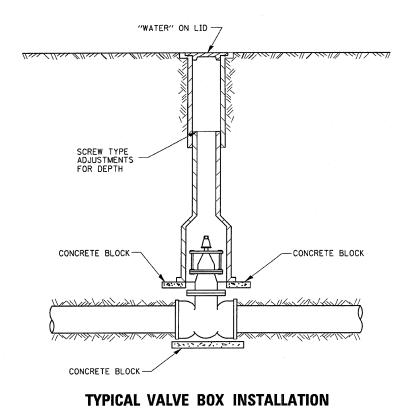
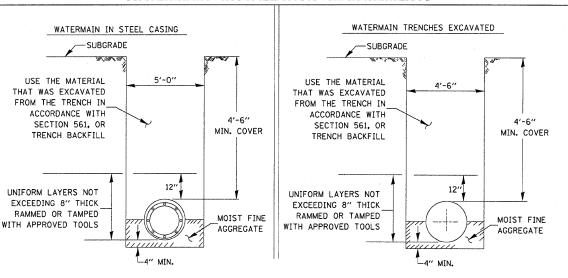


TYPICAL HYDRANT INSTALLATION



WATERMAIN INSTALLATION REQUIREMENTS



GENERAL NOTES

- 1. ANY SOFT OR SPONGY MATERIAL ENCOUNTERED BELOW THE ELEVATION OF THE PIPE SHALL BE REMOVED AND REPLACED WITH WELL COMPACTED MOIST FINE AGGREGATE.
- 2. ANY ROCK ENCOUNTERED IN THE TRENCH SHALL BE REMOVED TO A DEPTH OF AT LEAST 8 INCHES BELOW THE PIPE GRADE AND REPLACED WITH WELL COMPACTED MOIST FINE AGGREGATE.
- 3. THE SIDES OF THE TRENCH MAY BE SLOPED OR BENCHED ABOVE A 5 FT. TRENCH DEPTH OR ABOVE THE ELEVATION OR THE TOP OF PIPE, WHICHEVER IS GREATER, IN LIEU OF CONPLETE SHORING OR SHEETING OF THE FULL TRENCH DEPTH.

BACKFILL OPTIONS:

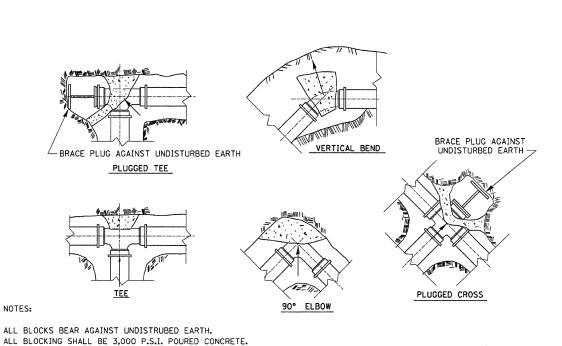
ARROWS INDICATE DIRECTION OF THRUST.

ALL FITTINGS SHOWN IN PLAN EXCEPT VERTICLE BEND.

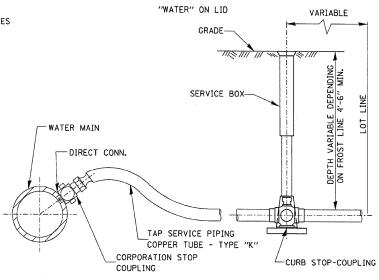
METHOD 1: UNIFORM LAYERS NOT EXCEEDING 12" THICK RAMMED OR TAMPED WITH APPROVED TOOLS

METHOD 2: UNIFORM LAYERS NOT EXCEEDING 12" THICK INUNDATED OR DEPOSITED IN WATER

METHOD 3: FILL TRENCH WITH LOOSE MATERIAL THEN JET WITH WATER, 6 FT MANIMUM SPACING OF HOLES



TYPICAL THRUST BLOCK INSTALLATIONS



SECTION

COUNTY ...
LIVINGSTON
TO STA.

FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

*(123,123X)RS-3, (124)RS-5, (123)BR-3

TYPICAL TAP SEVICE PIPING (COPPER)

REVISIONS		ILLINOIS DEPARTMENT OF TRANS	ENT OF TRANSPORTATION
NAME	DATE	ICCINOIS DEFARIN	ENT OF TRANSPORTATION
	-	14/67	
		WATERMAIN	
	1		
· · · · · · · · · · · · · · · · · · ·	·	DETAILS	
		SCALE: VERT.	
		HORIZ.	DRAWN BY
		DATE	CHECKED BY