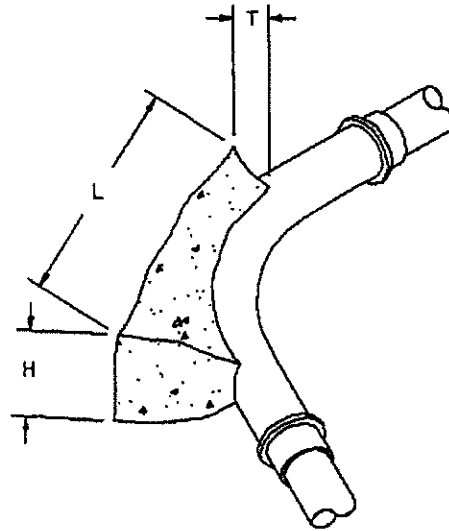
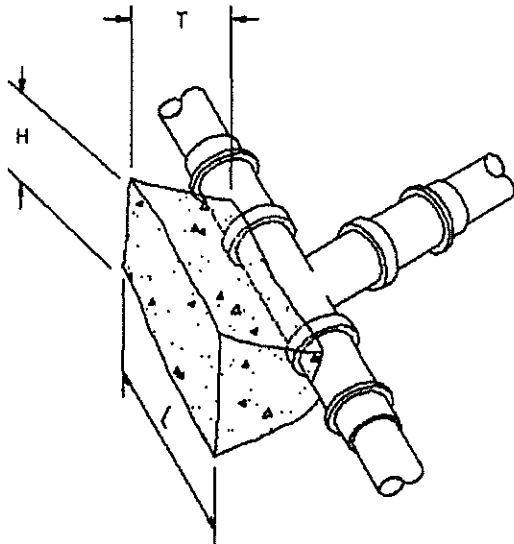


TABLE OF THRUST BLOCK BEARING AREAS

<u>PIPE SIZE</u> DIA.	<u>90° BEND</u> H X L	<u>45° BEND</u> H X L	<u>TEE</u> H X L
1.25"	*3.75" X 8"	-	*3.75" X 8"
1.50"	*3.75" X 8"	*3.75" X 8"	*3.75" X 8"
2"	4" X 12"	*3.75" X 8"	4" X 8"
2.50"	4.50" X 15"	4.50" X 8"	4.50" X 11"
3"	5" X 20"	5" X 11"	5" X 14"

*2.25" X 3.75" X 8" BRICK ACCEPTABLE.



NOTE : "T" DIMENSION SHALL BE A MINIMUM OF 2 INCHES.

CONSTRUCTION OF THRUST BLOCKING

1. CONCRETE THRUST BLOCKS SHALL BE CONSTRUCTED BY PLACING CONCRETE BETWEEN THE FITTING AND THE UNDISTURBED EARTH WALL OF THE TRENCH.
2. CINDER BLOCKS, WOOD, BRICK, AND OTHER MATERIALS MAY BE USED PROVIDED THAT THERE IS SUFFICIENT BEARING AREA BETWEEN BACKING AND FITTING, AND THE BACKING HAS SUFFICIENT STRENGTH TO WITHSTAND THE THRUST LOAD. IF WOOD IS USED IT MUST BE TREATED TO PREVENT DETERIORATION.
3. THRUST BLOCKING IS NEEDED WHEREVER THE PIPELINE CHANGES DIRECTION OR SIZE, AS AT TEES, BENDS, AND CROSSES; STOPS, AS AT A DEADEND; AND AT VALVES, AT WHICH THRUST DEVELOPS WHEN CLOSED.
4. THRUST BLOCKS SHALL BE BRACED AGAINST THE UNDISTURBED SOIL AND SHALL HAVE ENOUGH RESISTANCE TO WITHSTAND UPWARD AND OUTWARD THRUSTS AT THE FITTINGS.
5. ANCHORS ON SLOPES ARE NEEDED ONLY WHEN THERE IS THE POSSIBILITY OF BACKFILL SLIPPING DOWNHILL AND CARRYING THE PIPE WITH IT. WHERE SOIL SLIPPAGE IS A POSSIBILITY, ANCHORS PLACED IN UNDISTURBED SOIL MAY BE FASTENED TO EVERY OTHER LENGTH OF PIPE.

DRAWN BY: ARMDN

AUG. '92

**CITY OF MANHATTAN BEACH
DEPARTMENT OF PUBLIC WORKS**

STANDARD SPRINKLER SYSTEM THRUST BLOCKS

APPROVED

BY:

DIRECTOR OF PUBLIC WORKS

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