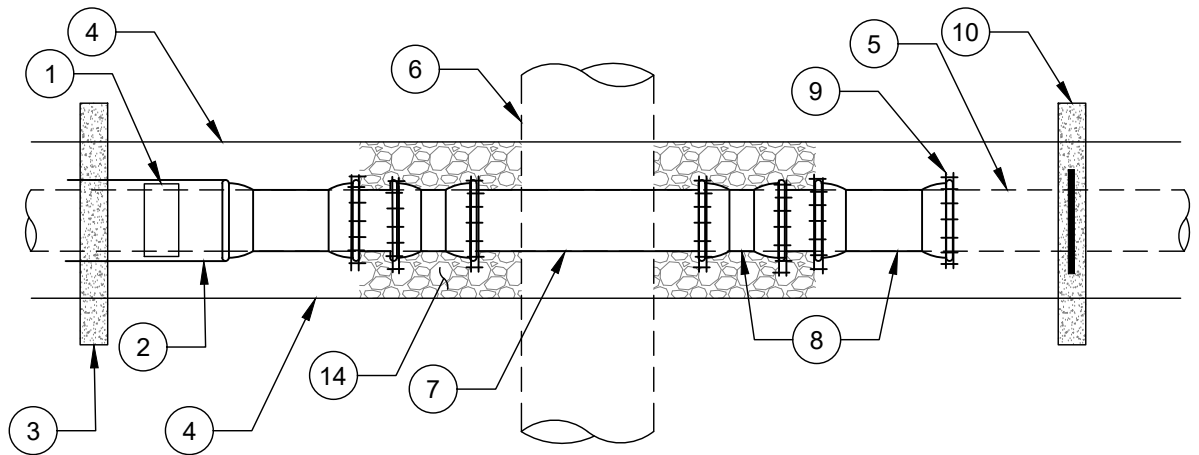
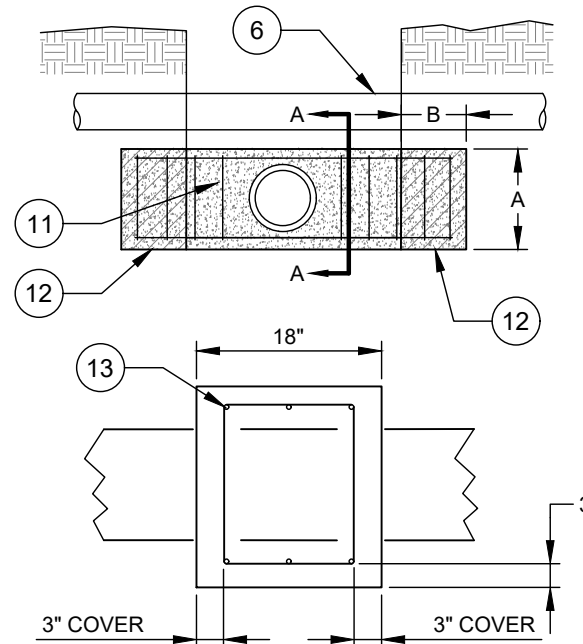


PROFILE VIEW



PLAN VIEW



SECTION A-A  
THRUST BLOCK DETAIL

- NO. DESCRIPTION:**
1. TRANSITION COUPLING (IF REQUIRED).
  2. ROD BEND TO THRUST BLOCK.
  3. CONCRETE THRUST WALL BLOCKING.
  4. TRENCH LIMITS.
  5. EXISTING PIPE.
  6. STORM PIPE.
  7. NEW DUCTILE IRON PIPE, WITH LENGTH CENTERED UNDER STORM DRAIN PIPE.
  8. 11.25° OR 22.5° RJ BENDS ROTATE AS REQUIRED.
  9. WEDGE ACTION RESTRAINT GLANDS.
  10. CONCRETE THRUST WALL BLOCKING WITH ANCHOR RING. SEE NOTE C.
  11. STIRRUPS (TYPICAL) SPACING 6" MINIMUM, 12" MAXIMUM.
  12. BEARING AREA.
  13. #4 BAR (TYPICAL).
  14. BACKFILL WITH WASHED STONE (#57) BETWEEN TWO PIPES.

**NOTES:**

- A. FITTINGS SHALL BE RESTRAINED USING WEDGE ACTION RESTRAINT, STAINLESS STEEL TIE RODS, OR RESTRAINED JOINT PIPE, AS APPROVED BY ENGINEER.
- B. BEARING AREAS (A X B) DETERMINED BY ACTUAL SOIL CONDITIONS. SHOULD BE BASED ON 200 PSI TEST PRESSURE. SEE CHART BELOW.
- C. DO NOT USE ANCHOR RING ON PVC, CIP, OR AC PIPE. ANCHOR RING NOT REQUIRED IF THE TOP BEND IS RODDED.

**RESULTANT THRUST AT FITTINGS AT 200 PSI WATER PRESSURE.  
TOTAL POUNDS.**

NOM. PIPE DIAMETER	11.25° BEND	22.5° BEND
6 INCH	1466	2918
8 INCH	2522	5020
10 INCH	3793	7552
12 INCH	5364	10680

THE FOLLOWING OFTEN-USED SOIL VALUES FOR THE DEPTHS OF 4' ARE LISTED ONLY AS A GUIDE\*. THE ENGINEER SHOULD SELECT THESE BEARING VALUES FOR EACH SOIL TYPE AND DEPTH OF COVER ENCOUNTERED ON THE SPECIFIC PIPELINE PROJECT. APPROPRIATE SAFETY FACTORS SHOULD BE APPLIED TO COVER FUTURE CHANGES IN PIPE DEPTH, SOIL BEARING CAPACITIES, ETC.

SOIL	BEARING LOAD (LBS/SQ.FT.)
MUCK	0
SOFT CLAY	1,000
SILT	1,500
SANDY SILT	3,000
SAND	4,000
SANDY CLAY	6,000
HARD CLAY	9,000

\*NO RESPONSIBILITY CAN BE ASSUMED FOR THE ACCURACY OF THE DATA IN THIS TABLE DUE TO THE WIDE VARIATION OF BEARING LOAD CAPABILITIES FOR EACH SOIL TYPE.