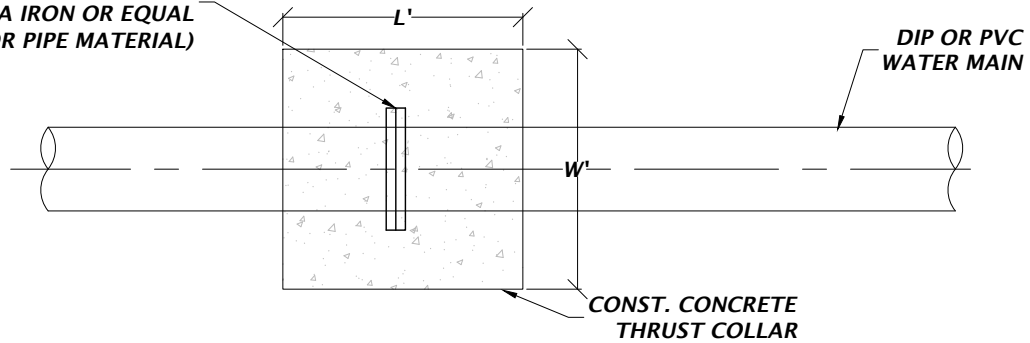
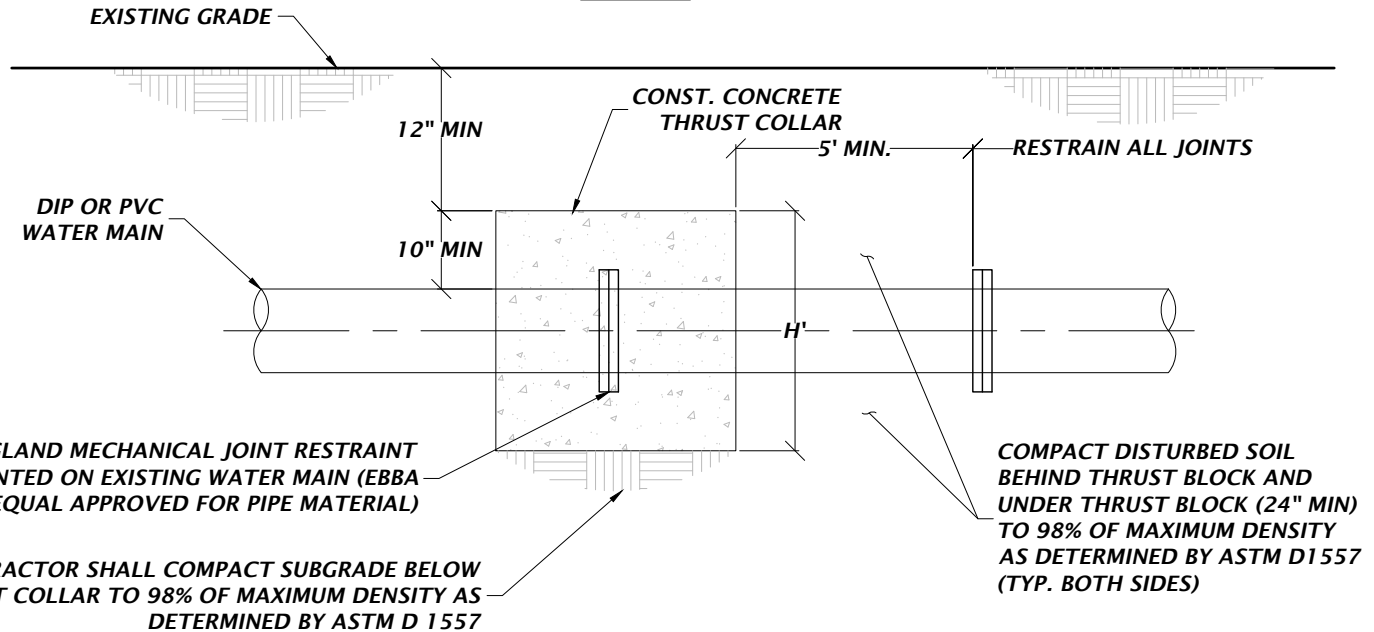


SPLIT GLAND MECHANICAL JOINT RESTRAINT MOUNTED ON EXISTING WATER MAIN (EBBA IRON OR EQUAL APPROVED FOR PIPE MATERIAL)



TOP VIEW



FRONT VIEW

**DETAIL NOTES:**

1. CONTRACTOR SHALL COMPACT SUBGRADE BELOW THRUST COLLAR TO 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D1557.
2. BACKFILL COMPACTION SHALL BE 98% OF MAXIMUM DENSITY AS DETERMINED BY ASTM D1557. LIFTS SHALL BE 12" MAXIMUM
3. CONTRACTOR SHALL CONSTRUCT A THRUST COLLAR ON EACH SIDE OF A 90 DEGREE BEND.
4. H X W X L (MIN) = 2.25' X 2.25' X 2.25' FOR 6"/4" PIPE
5. H X W X L (MIN) = 2.75' X 2.75' X 2.75' FOR 8" PIPE
6. H X W X L (MIN) = 3.25' X 3.25' X 3.25' FOR 10" PIPE
7. H X W X L (MIN) = 4.00' X 4.00' X 4.00' FOR 12" PIPE
8. USE 4,000 PSI COMPRESSIVE STRENGTH CONCRETE IN ACCORDANCE WITH ASTM C94 MEETING THE FOLLOWING REQUIREMENTS:
  - WATER/CEMENT RATIO 0.48 WITHOUT ADMIXTURES BY WEIGHT
  - FLY ASH MAX. 15% OF CEMENT CONTENT, TYPE F ONLY
  - SLUMP 4" +/- 1", 7" - 8" WITH SUPERPLASTICIZER
9. THRUST BLOCK SIZING IS BASED ON TYPICAL SYSTEM PRESSURE OF 75 PSI AND GENERALLY SANDY SOILS OF 2000 PSF. THE CALCULATIONS DO CONSIDER SURGES AND A SAFETY FACTOR. WHERE CONDITIONS EXPERIENCE HIGHER SYSTEM PRESSURES, LOWER QUALITY SOILS OR SHALLOWER BURIED DEPTHS THAN 3 FEET, THE THRUST BLOCK SHALL BE RESIZED BY AN ENGINEER REGISTERED IN THE STATE OF FLORIDA.