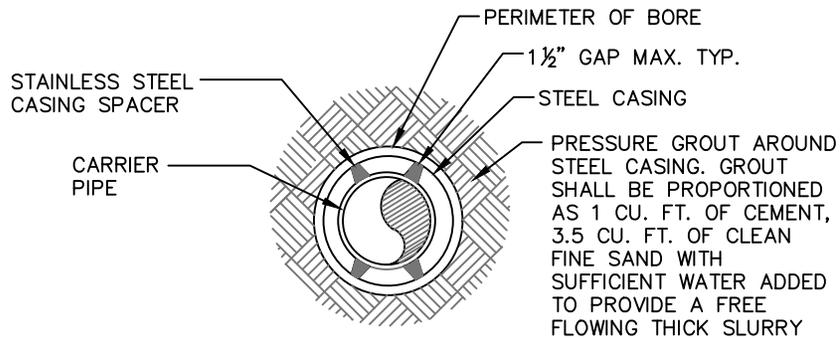


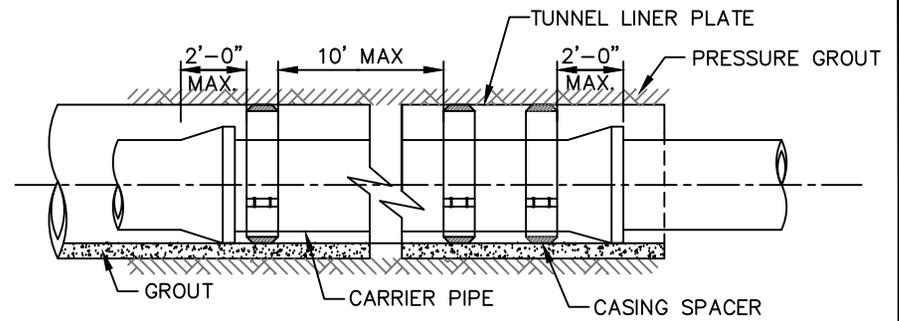
BORE PROFILE DETAIL

NTS.



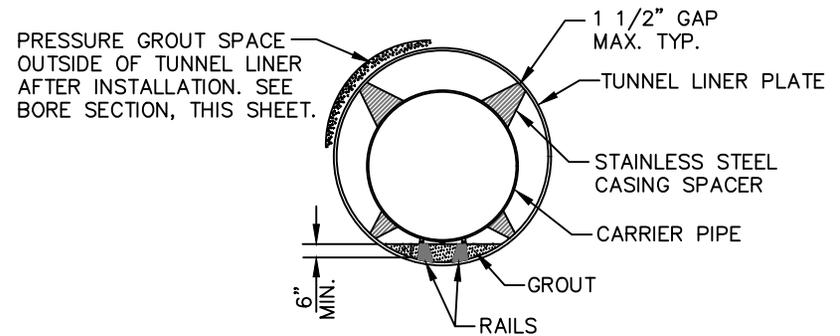
BORE SECTION DETAIL

NTS.



TUNNEL PROFILE DETAIL

NTS.



TUNNEL SECTION DETAIL

NTS.

NOTES:

1. ALL CASING SPACERS SHALL BE STAINLESS STEEL.
2. FURNISH AND INSTALL INSULATING END SEAL OR CONCRETE PLUG AT EACH END OF TUNNEL OR BORE. END SEAL SHALL BE APS END SEALS OR APPROVED EQUAL. CONCRETE PLUG SHALL BE 2:27 CONCRETE BACKFILL MATERIAL.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR PREVENTING PIPE FROM FLOATING DURING GROUTING OF ANNULAR SPACE.
4. NUMBER OF SPACERS (MIN. 3 PER JOINT OF CARRIER PIPE) AND CASING INSULATORS TO BE DETERMINED BY MANUFACTURER PIPE SUPPLIER AND CASING SPACER SUPPLIER.
5. PROVIDE 9 LB ANODE AT BOTH ENDS OF CASING AS NEEDED AND AS DETERMINED BY THE ENGINEER.
6. WHERE GROUNDWATER IS ENCOUNTERED GASKETED LINER PLATES SHALL BE USED.
7. GROUT FITTINGS SHALL BE FABRICATED INTO TUNNEL LINER PLATE OR CASING PIPE WITH MAXIMUM SPACING OF 6 FEET. REMOVE AND PLUG FITTINGS AFTER PRESSURE GROUTING.
8. SEE STANDARD SPECIFICATION (B23) FOR CASING THICKNESS, COATINGS, AND OTHER REQUIREMENTS.
9. GAP BETWEEN CASING OR TUNNEL LINER AND CASING SPACER SHALL BE A MAXIMUM OF 1.5 INCHES.
10. ALL PIPE JOINTS WITHIN A CASING OR TUNNEL LINER SHALL BE RESTRAINED. IF MJ TYPE RESTRAINT IS USED, JOINTS SHALL BE BOLTED BEFORE PULLING INTO PLACE.



CITY OF ARLINGTON, TEXAS

**CASING DETAIL
(BORE OR TUNNEL)**

10/02/2019