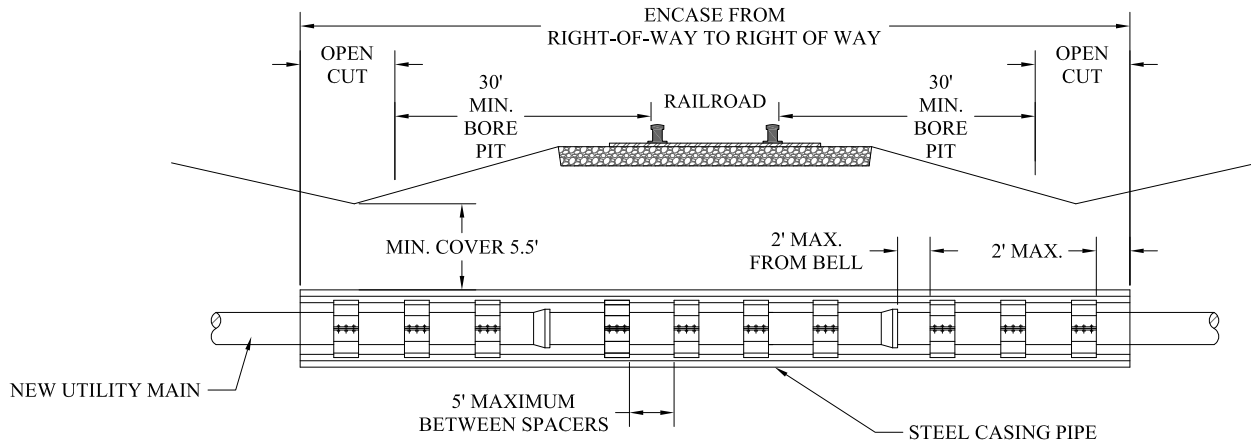


RAILROAD CROSSING WATER AND SEWER MAINS



NOTES

1. ALL RAILROAD CROSSINGS SHALL BE MADE BY BORING OR TUNNELING.
2. CASING PIPE SHALL BE MINIMUM 3/8" STEEL PIPE WITH WELDED JOINTS AND BE TWO NOMINAL PIPE SIZES LARGER THAN THE CARRIER PIPE.
3. CASING SHALL EXTEND FROM EDGE OF RIGHT-OF-WAY TO EDGE OF RIGHT-OF-WAY OR AS SPECIFIED IN THE PLANS.
4. EACH END OF CASING SHALL BE SEALED WITH WATERTIGHT NON-SHRINK GROUT OR A MANUFACTURED WATERTIGHT SEAL.
5. ALL OVER CUTTING IN EXCESS OF 1" AROUND CASING PIPE SHALL BE PRESSURE GROUTED.
6. GROUT SHALL HAVE A MINIMUM STRENGTH OF 1,800 P.S.I. IN 28 DAYS WITH A SLUMP OF 10" OR GREATER.
7. HDPE CASING SPACERS SHALL BE PLACED AT MAXIMUM 5' INTERVALS AND 2' FROM EACH BELL AND END OF CASING.
8. BORE PITS SHALL BE LOCATED AND CONFINED TO THE WORK EASEMENT AND SHALL BE CONSTRUCTED IN SUCH A MANNER AS TO NOT INTERFERE WITH HIGHWAY STRUCTURAL INTEGRITY OR RAIL STRIKING DISTANCE. IF NECESSARY, SHORING SHALL BE USED.