



GENERAL NOTES:

1. PRECAST BOX CULVERT DESIGN SPECIFICATIONS SHALL BE IN ACCORDANCE WITH ACI-318 "BUILDING REQUIREMENTS FOR STRUCTURAL CONCRETE", AASHTO "STANDARD SPECIFICATIONS FOR HIGHWAY BRIDGES", ASTM C789 "PRECAST REINFORCED CONCRETE BOX SECTIONS FOR CULVERTS, STORM DRAINS, AND SEWERS, OR ASTM C850 "PRECAST REINFORCED CONCRETE BOX SECTIONS FOR CULVERTS, STORM DRAINS, AND SEWERS WITH LESS THAN 2 Ft. OF COVER SUBJECT TO HIGHWAY LOADINGS", AS APPLICABLE.
2. CONCRETE COMPRESSIVE STRENGTH 5,000 P.S.I. MINIMUM UNLESS OTHERWISE SPECIFIED.
3. STEEL REINFORCING DESIGN TO CONFORM TO THE REQUIREMENTS OUTLINED IN NOTE #1 AND SHALL UTILIZE GRADE 60 RE-BARS CONFORMING TO THE REQUIREMENTS OF ASTM A185, OR WWF CONFORMING TO THE REQUIREMENTS OF ASTM A185 OR BOTH.
4. TYPICAL HAUNCH DETAIL SHALL BE 8"x8". LARGER HAUNCHES ARE AVAILABLE FOR CULVERTS OF LONGER SPANS, DEEPER FILLS OR HEAVY LIVE LOAD REQUIREMENTS.
5. WALL, ROOF, AND FLOOR DIMENSIONS SHALL BE DETERMINED BY JOB CONDITIONS. TYPICAL CONFIGURATIONS AS WELL AS STEEL REQUIREMENTS ARE DETAILED IN ASTM C789 AND C850 AS PER NOTE #1.
6. PENETRATIONS IN ROOF SLAB AND WALLS CAN BE PROVIDED DEPENDENT ON JOB CONDITIONS. ADDITIONAL STEEL WILL BE REQUIRED AT ALL PENETRATIONS.
7. WEEP HOLES AVAILABLE PER JOB REQUIREMENTS AND ARE TYPICALLY PLACED ONE PER CULVERT SECTION AT EACH EXTERIOR WALL.
8. TONGUE AND GROOVE SHALL BE SIZED IN PROPORTION TO CULVERT CROSS SECTION. JOINTS SHALL BE SEALED BY 1"x1" CLOSE CELL NEOPRENE SPONGE GASKET MATERIAL WHICH IS FACTORY APPLIED TO THE "BELL" OR "GROOVE" END OF THE CULVERT SECTION.
9. SEE SPECIAL DETAILS FOR END TREATMENTS, CURVES, AND ADDITIONAL OPTIONS AVAILABLE.
10. THIS SECTION MAY BE USED FOR VARIOUS APPLICATIONS WHERE IT IS DESIRABLE TO GAIN ACCESS TO A TRENCH OR INSTALL PIPING OR UTILITIES BEFORE CLOSING TOP SECTION.