

CULVERT NOTES:

1. ITEM 900.640 SPECIAL PROVISION (TRENCHLESS PIPE WITH CEMENT MORTAR LINING)(72" DIAMETER) WILL INCLUDE, BUT IS NOT LIMITED TO THE DESIGN, FABRICATION, DELIVERY, HANDLING, REPAIR AND CONSTRUCTION OF ALL THE CULVERT AND CEMENT MORTAR ELEMENTS.
2. THE REMOVAL AND DISPOSAL OF ALL MATERIAL FROM INSIDE THE TRENCHLESS PIPE WILL BE CONSIDERED INCIDENTAL TO ITEM 900.640 SPECIAL PROVISION (TRENCHLESS PIPE WITH CEMENT MORTAR LINING)(72" DIAMETER).

HEADWALL NOTES:

1. ITEM 540.10 PRECAST CONCRETE STRUCTURE (SOUTH WALL) AND ITEM 540.10 PRECAST CONCRETE STRUCTURE (NORTH WALL) WILL INCLUDE, BUT ARE NOT LIMITED TO THE DESIGN, FABRICATION, FURNISHING AND CONSTRUCTION OF THE HEADWALLS, WINGWALLS AND FOOTINGS. EACH WALL SHALL BE DESIGNED AND FABRICATED TO THE ELEVATIONS SHOWN ON THE PLANS. THE WALL AND FOOTING THICKNESSES ARE SHOWN FOR REFERENCE ONLY. THE ACTUAL DIMENSIONS WILL BE DEPENDENT ON THE CONTRACTOR.
2. THE CULVERT AND WALL SYSTEM SHALL BE DESIGNED PER THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 7TH EDITION, DATED 2014, AND ITS LATEST REVISIONS, AND SHALL CONSIDER THE FOLLOWING DESIGN CRITERIA:
 - A. DESIGN LOADING = HL-93
 - B. WEIGHT OF BACKFILL MATERIAL = 140 PCF
 - C. SEE GEOTECHNICAL REPORT FOR FACTORED SOIL BEARING RESISTANCES.
 - D. PRECAST CONCRETE COMPRESSIVE STRENGTH: $f'c = 5000 \text{ psi}$
CAST-IN-PLACE CONCRETE COMPRESSIVE STRENGTH: $f'c = 3500 \text{ psi}$
 - E. REINFORCING STEEL (CAST-IN-PLACE CONCRETE WALLS): $Fy = 60,000 \text{ psi}$
3. IT SHALL BE NOTED THAT THE SOIL CONDITIONS VARY GREATLY BETWEEN THE NORTH AND SOUTH WALLS. ALL REQUIREMENTS IN THE GEOTECHNICAL REPORT SHALL BE MET.
4. WEEP HOLES IN THE HEADWALLS SHALL BE PLACED APPROXIMATELY EVERY 10'. WEEP HOLES SHALL BE COVERED WITH GEOTEXTILE, OR EQUIVALENT, TO RETAIN BACKFILL MATERIAL AND TO PREVENT ENTRY BY ANIMALS. PAYMENT WILL BE CONSIDERED INCIDENTAL TO ITEM 540.10 PRECAST CONCRETE STRUCTURE.
5. ALL REINFORCING STEEL SHALL HAVE A MINIMUM CLEAR COVER OF 2".
6. REINFORCING STEEL PLACEMENT TOLERANCES SHALL BE AS FOLLOWS:
 - A. SPACING $\pm 1/2"$
 - B. CLEARANCE $\pm 1/4"$
7. ALL EXPOSED EDGES OF CONCRETE SHALL BE CHAMFERED 1" X 1".
8. WATER REPELLENT, SILANE SHALL BE FURNISHED IN ACCORDANCE WITH SECTION 514 AND SHALL BE FIELD APPLIED TO ALL EXPOSED EXTERIOR SURFACES OF PRECAST CONCRETE. PAYMENT WILL BE MADE UNDER ITEM 514.10 WATER REPELLENT, SILANE.

PROJECT NAME: HIGHGATE
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PROJECT NOTES SHEET	SHEET 5 OF 40