7/2/99

PROJECT REFERENCE NO.	SHEET NO.
R-5816	EC-04A/CONST.04
R/W SHEET NO.	
ROADWAY DESIGN ENGINEER	HYDRAULICS ENGINEER

R–5816 DEWATERING AND CONSTRUCTION NOTES

GENERAL CONSTRUCTION NOTES

1. THE CONTRACTOR IS RESPONSIBLE FOR THE DESIGN, INSTALLATION, AND OPERATION OF AN ADEQUATE DEWATERING SYSTEM CONSISTING OF WELL POINTS OR WELLS TO DEWATER EXCAVATIONS FOR PIPE CULVERT INSTALLATION.
2. THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN TO THE ENGINEER FOR HIS RECORDS BEFORE BEGINNING CONSTRUCTION.
3. THE WELL POINTS OR WELLS SHALL MAINTAIN THE WATER TABLE 3 FEET OR MORE BELOW THE MAXIMUM DEPTH OF EXCAVATION.
4. PROVIDE CONTINUOUS DEWATERING UNTIL COMPLETING CONSTRUCTION OF THE PIPE CULVERTS AND BACKFILL AT LEAST TO TOP OF PLANNED SUBGRADE ELEVATION.
5. WHEN DEWATERING IS DISCONTINUED, DECREASE RATE OF PUMPING GRADUALLY SO WATER TABLE WILL RISE SLOWLY AT A RATE EQUAL TO THE NUMBER OF FEET THE WATER TABLE WAS LOWERED DIVIDED BY 10 OR AT THE RATE OF 1 FOOT PER HOUR, WHICHEVER IS LESS.
6. INSTALL PIEZOMETER WELLS AS NEEDED TO A DEPTH 10 FEET BELOW THE MAXIMUM DEPTH OF EXCAVATION TO CONFIRM DRAW DOWN OF THE WATER TABLE PRIOR TO BEGINNING EXCAVATION AND MONITOR DURING PIPE CULVERT INSTALLATION AND AFTER DISCONTINUATION OF DEWATERING.
7. THE COST OF DESIGN, INSTALLATION, OPERATION, MONITORING, AND REMOVAL OF THE DEWATERING SYSTEM INCLUDING ALL NECESSARY EQUIPMENT, PARTS, AND LABOR IS INCIDENTAL TO THE COST OF INSTALLATION OF PIPE CULVERTS AND SHALL BE INCLUDED IN THE APPLICABLE PIPE CULVERT PAY ITEMS PAID BY LINEAR FEET OF PIPE CULVERT FURNISHED AND INSTALLED.

GENERAL CONSTRUCTION SEQUENCE

1. UTILIZE WELL POINTS OR WELLS TO AID IN DEWATERING DURING CONSTRUCTION ACTIVITIES.
2. AT THE BEGINNING OF EACH CONSTRUCTION SHIFT:
   - i) PLUG EXISTING/PROPOSED DRAINAGE SYSTEM
   - ii) INSTALL PUMPS AND TEMPORARY FLEXIBLE HOSES.
   - iii) BEGIN PUMPING OPERATIONS TO DRAIN EXISTING STORM DRAIN SYSTEM.
3. EXCAVATE AREA FOR PROPOSED DRAINAGE STRUCTURE, PIPES, AND/OR WATERLINE INSTALLATION.
4. DEWATER CONSTRUCTION AREA, UTILIZING SPECIAL STILLING BASIN(S) (OR SELF–CONTAINED DEVICES WHERE NOTED) FOR PUMPED EFFLUENT.
5. INSTALL PROPOSED DRAINAGE STRUCTURE, PIPES AND/OR WATERLINES.
6. AT THE END OF EACH CONSTRUCTION SHIFT, REMOVE ANY TEMPORARY PLUGS FROM PROPOSED/EXISTING SYSTEMS TO ALLOW DRAINAGE SYSTEM TO FUNCTION.

40′ 20′ 0 40′ 80′
SCALE: 1″ = 40′
NAD 83