

GENERAL NOTES

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THWA REGION	STATE	PROJECT	
5	OHIO		

LAKE COUNTY
 LAK-2/91-031/456

ITEM 624 - MOBILIZATION, AS PER PLAN

THE CONTRACTOR SHALL PROVIDE A SUITABLE FIELD OFFICE HAVING A MINIMUM OF 800 SQ. FT. OF FLOOR SPACE WHICH SHALL BE IN ACCORDANCE WITH 619.01 AND 619.02. PAYMENT FOR THE ABOVE SHALL BE INCLUDED IN THE LUMP SUM PRICE BID FOR ITEM 624 MOBILIZATION, AS PER PLAN.

CONTINGENCY QUANTITIES

THE CONTRACTOR SHALL NOT ORDER MATERIALS OR PERFORM WORK FOR PLAN ITEMS SET UP TO BE USED "AS DIRECTED BY THE ENGINEER" UNLESS AUTHORIZED BY THE ENGINEER. THE ACTUAL WORK LOCATIONS AND QUANTITIES USED AT THE ENGINEER'S DISCRETION SHALL BE MADE A MATTER OF RECORD BY INCORPORATION INTO THE FINAL CHANGE ORDER GOVERNING COMPLETION OF THIS PROJECT.

RIGHT OF WAY

ALL WORK SHALL BE PERFORMED WITHIN THE EXISTING RIGHT OF WAY OR EASEMENTS.

ITEM 404 - BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC

THIS ITEM SHALL BE USED TO REPAIR HOLES IN THE BRIDGE DECKS, ROADWAY SURFACE AND BERMS WHICH ARE DAMAGED DURING THE CLOSURE. THE CONTRACTOR SHALL USE THIS ITEM TO MAINTAIN THE HIGHWAY ACCORDING TO SEC. 614.02. THE CONTRACTOR SHALL PERFORM THE ABOVE WORK DURING THE HOURS AS PER TRAFFIC CONTROL PLANS AND SHALL NOT CLOSE MORE THAN ONE ADDITIONAL LANE TO DO THIS WORK. THE FOLLOWING ESTIMATED QUANTITY IS INCLUDED IN THE GENERAL SUMMARY FOR THE MAINTENANCE OF TRAFFIC AS OUTLINED ABOVE, TO BE USED AS DIRECTED BY THE ENGINEER ON ALL PARTS OF THIS PROJECT.

ITEM 404 - BITUMINOUS CONCRETE FOR MAINTAINING TRAFFIC _____ 300 C.Y.

ITEM 407 - TACK COAT

THE TACK COAT AND COVER AGGREGATE OPERATIONS SHALL BE AS DETERMINED AT A PRE-CONSTRUCTION CONFERENCE AS PER SECTION 407.05. THE APPLICATION RATE SHALL NOT EXCEED 0.10 GAL. PER SQUARE YARD FOR TACK COAT AND 7 LBS. PER SQUARE YARD FOR COVER AGGREGATE. COVER AGGREGATE SHALL BE AS PER 703.06.

ITEM 310 - SUBBASE, TYPE 1, AS PER PLAN

THIS ITEM SHALL BE USED UNDER ITEM 301 BITUMINOUS AGGREGATE BASE, AS PER PLAN, IN AREAS WHERE THERE IS NO EXISTING SUBBASE OR WHERE THE SUBBASE UNDER AN EXISTING BERM IS FOUND TO BE UNSUITABLE. COURSE THICKNESS SHALL BE 6". PLACEMENT AND COMPACTION SHALL BE AS SPECIFIED IN SECTION 310.05.

ALL COSTS OF EXCAVATION AND INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 310 - SUBBASE TYPE 1, AS PER PLAN. THE FOLLOWING ESTIMATED QUANTITY IS INCLUDED IN THE GENERAL SUMMARY TO BE USED AS OUTLINED ABOVE:

ITEM 310 - SUBBASE, TYPE 1, AS PER PLAN _____ 350 C.Y.

ITEM 605 - AGGREGATE DRAIN

THE FOLLOWING ESTIMATED QUANTITY IS INCLUDED IN THE GENERAL SUMMARY TO BE USED WHERE AND AS DIRECTED BY THE ENGINEER TO DRAIN SUBBASE MATERIAL WHICH HAS BECOME SATURATED:

ITEM 605 - AGGREGATE DRAIN _____ 1000 L.F.

ITEM 301 - BITUMINOUS AGGREGATE BASE, AC-20, RT-11 OR RT-12, AS PER PLAN

THIS ITEM SHALL BE USED ON ALL MAINLINE BERMS PRIOR TO MOVING TRAFFIC OFF THEM. IT SHALL ALSO BE USED TO REPAIR BADLY DAMAGED BERM AREAS AS DIRECTED BY THE ENGINEER. THIS WORK SHALL INCLUDE THE REMOVAL OF 6" OF THE EXISTING SHOULDER MATERIAL AND THE CONSTRUCTION OF A 6" COURSE OF ITEM 301 ON THE EXISTING SUBBASE OR NEW SUBBASE. THIS ITEM OF WORK SHALL BE PERFORMED FOR THE WIDTHS SHOWN ON THE TRAFFIC CONTROL PLANS. ALL COST OF EXCAVATION AND INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 301 - BITUMINOUS AGGREGATE BASE, AC-20, RT-11 OR RT-12, AS PER PLAN. THE CONTRACTOR SHALL PERFORM THE ABOVE DURING THE HOURS SET FORTH IN THE TRAFFIC CONTROL PLANS AND SHALL NOT CLOSE MORE THAN ONE LANE IN EACH DIRECTION AT ANY ONE TIME.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS OUTLINED ABOVE FOR THE RECONSTRUCTION OF PAVED SHOULDERS.

ITEM 301 - BITUMINOUS AGGREGATE BASE, AC-20, RT-11 OR RT-12 AS PER PLAN _____ 5800 C.Y.

ITEM SPECIAL - PRESSURE RELIEF JOINTS, TYPE C

THIS ITEM SHALL BE AS PER BP-11 OF THE STANDARD DRAWINGS.

ITEM 622 - TEMPORARY CONCRETE BARRIER

THE BARRIER SECTIONS PROVIDED FOR THE FIRST PHASE OF BRIDGE DECK REPAIR SHALL BE MOVED AND RE-USED FOR THE SECOND PHASE AND PAID FOR EACH TIME THEY ARE MOVED.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS OUTLINED ABOVE FOR BRIDGE DECK REPAIR.

ITEM 622 - TEMPORARY CONCRETE BARRIER _____ 13840 L.F.

ITEM 509 - REINFORCING STEEL, AS PER PLAN

THIS ITEM SHALL BE USED TO REPLACE REINFORCING STEEL WHICH IS BENT, ELONGATED, MISSING, OR EXTREMELY CORRODED. BARS SHALL BE THE SAME SIZE AS THE ORIGINAL BARS AND SHALL BE PLACED AS NEAR AS POSSIBLE TO THEIR ORIGINAL LOCATION. BARS SHALL BE LAPPED ACCORDING TO SEC. 509.08. PAYMENT FOR THIS ITEM SHALL INCLUDE THE COST OF ALL MATERIALS AND LABOR NECESSARY TO COMPLETE THE ABOVE WORK, INCLUDING REMOVAL OF THE EXISTING STEEL.

THE FOLLOWING ESTIMATED QUANTITY OF REINFORCING STEEL IS TO BE USED WHERE AND AS DIRECTED BY THE ENGINEER.

ITEM 509 - REINFORCING STEEL, AS PER PLAN _____ 1000 LBS.

ITEM 516 - VERTICAL EXTENSION OF STRUCTURAL EXPANSION JOINTS, AS PER PLAN

THE CONTRACTOR SHALL FURNISH AND WELD WITH A CONDUIT END HEAD, SHEET PILES TO THE EXISTING END DAM PLATES. FOR DETAILS NOT SHOWN SEE STD. CONSTRUCTION DRAWING BP-5. BARS SHALL BE SET TO THE DIMENSIONS SHOWN IN THE MISCELLANEOUS DETAIL SHEET. ALL COST OF MATERIALS AND INSTALLATION SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 516 - VERTICAL EXTENSION OF STRUCTURAL EXPANSION JOINTS, AS PER PLAN.

TYING REBARS

THE PURPOSE OF THIS ITEM IS TO TIE EXPOSED STEEL REINFORCING BARS WHICH ARE IN CROSS CONTACT OR LAPPED. TACK WELDING SHALL NOT BE PERMITTED. THIS WORK SHALL BE PERFORMED WHERE AND AS DETERMINED BY THE ENGINEER TO RESTRICT THE RELATIVE MOVEMENT OF THE REINFORCING BARS.

PAYMENT FOR THIS WORK INCLUDING EXTRA REMOVAL OF CONCRETE AS REQUIRED TO PERMIT TYING SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 845 - LATEX MODIFIED CONCRETE OVERLAY (VARIABLE THICKNESS).

COST PARTICIPATION

THE QUANTITIES WHICH APPEAR IN THE PLANS HAVE BEEN PLACED IN ONE OF THE FOLLOWING PARTICIPATION AREAS:

COST PARTICIPATION I

FEDERAL, STATE AND LOCAL

COST PARTICIPATION II

STATE AND LOCAL

ITEM 516 - ELASTOMERIC COMPRESSION SEALS FOR CONCRETE SLAB BRIDGE JOINTS, AS PER PLAN

DESCRIPTION OF WORK

THIS ITEM SHALL CONSIST OF FURNISHING AND INSTALLING ELASTOMERIC COMPRESSION SEALS FOR BRIDGE DECK JOINTS ON CONCRETE SLAB BRIDGES. IT DOES NOT INCLUDE THE REMOVAL OF OLD CONCRETE AND PLACING OF NEW CONCRETE TO FORM THE COMPRESSION SEAL SEAT WITHIN THE JOINT.

MATERIALS

COMPRESSION SEALS OF THE SIZE, SHAPE AND CONFIGURATION SHOWN ON THE PLANS SHALL BE COMPOSED OF AN EXTRUDED VULCANIZED ELASTOMERIC VIRGIN POLYCHLOROPRENE MATERIAL. SEALS FOR BRIDGE DECK JOINTS SHALL BE FURNISHED IN ONE CONTINUOUS PIECE UNLESS A SHOP FABRICATED SPLICE, FIELD SPLICE OR FIELD BUTT JOINT IS INDICATED ON THE PLANS OR APPROVED BY THE ENGINEER.

THE LUBRICANT-ADHESIVE USED WHEN INSTALLING THE PREFORMED JOINT SEALS SHALL BE A COMPOUND CONSISTING OF THE SAME BASE POLYMER AS THE SEALS, UNLESS OTHERWISE APPROVED BY THE ENGINEER, BLENDED WITH SUITABLE VOLATILE SOLVENTS. IT SHALL HAVE SUITABLE CONSISTENCY AT THE TEMPERATURE AT WHICH THE SEALS ARE TO BE INSTALLED, SHALL BE COMPATIBLE WITH THE SEALS AND CONCRETE, AND SHALL BE RELATIVELY UNAFFECTED BY THE NORMAL MOISTURE IN THE CONCRETE.

SAMPLING AND TESTING

EACH LOT OF COMPRESSION SEALS SHALL BE TESTED BY THE MANUFACTURER OR AN ACCREDITED LABORATORY TO INSURE COMPLIANCE WITH THESE PROVISIONS. TWO CERTIFIED COPIES OF THE QUALIFICATION TEST DATA INDICATING THAT THE TEST MATERIALS COMPLY WITH THESE PROVISIONS SHALL BE SUBMITTED TO THE TESTING LABORATORY. SAMPLING WHEN REQUESTED, SHALL BE IN ACCORDANCE WITH 106.03 EXCEPT THAT WHERE COMPRESSION SEALS ARE TO BE FABRICATED ACCORDING TO PLAN REQUIREMENTS, SEAL SAMPLES SHALL BE MADE AVAILABLE PRIOR TO FABRICATION. THE SAMPLE FROM EACH LOT AND FOR EACH PROJECT SHALL BE ONE PIECE TWO FEET LONG.

MATERIAL ACCEPTANCE WILL BE BASED UPON LABORATORY EVALUATION OF CERTIFIED TEST DATA, LABORATORY TEST OF SAMPLED MATERIAL, OR THE EVALUATION OF BOTH CERTIFIED TEST DATA AND TESTED SAMPLES.

PREPARATION FOR INSTALLATION

ALL SURFACES TO RECEIVE ELASTOMERIC COMPRESSION SEAL SHALL BE FREE FROM DIRT, WATER, OIL, FROST AND ANY OTHER LOOSE FOREIGN DEBRIS WHICH MAY BE DETRIMENTAL TO EFFECTIVE JOINT SEALING. ALL JOINTS TO RECEIVE ELASTOMERIC COMPRESSION SEAL SHALL BE FREE FROM DEFECTS SUCH AS SPALLS, CRACKS OR LOOSE MATERIALS. THIS WORK SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.

INSTALLATION

FOR EASY INSTALLATION, THE AIR TEMPERATURE SHOULD BE BELOW 85 DEGREES F. AT HIGHER TEMPERATURES, THE JOINTS SHOULD CLOSE TO SUCH A DEGREE THAT THE SEAL BECOMES DIFFICULT TO INSERT. APPLY A CONTINUOUS COATING OF THE LUBRICANT-ADHESIVE TO BOTH JOINT INTERFACES IMMEDIATELY PRIOR TO SEAL INSTALLATION. SEALS SHALL BE INSTALLED WITH EQUIPMENT DESIGNED OR SPECIFICALLY ADAPTED FOR THE INSTALLATION OF ELASTOMERIC JOINT SEALS. THIS EQUIPMENT SHOULD NOT ELONGATE THE SEAL OR CAUSE STRUCTURAL DAMAGE TO THE COMPLETED INSTALLATION. COMPLETE THE INSTALLATION BY POSITIONING THE ELASTOMERIC COMPRESSION SEAL WITHIN THE JOINT TO A DEPTH REQUIRED BY THE APPLICATION INVOLVED. A MANUFACTURER'S REPRESENTATIVE SHALL BE PRESENT FOR AT LEAST THE FIRST DAY OF INSTALLATION OPERATIONS.

ELASTOMERIC COMPRESSION SEALS SHALL BE INSTALLED AS OUTLINED ABOVE AND SHALL OTHERWISE CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.

METHOD OF MEASUREMENT

THE QUANTITY SHALL BE THE LENGTH IN LINEAR FEET, MEASURED ALONG THE ELASTOMERIC COMPRESSION SEAL, FURNISHED AND PLACED AS SHOWN ON THE PLANS AND IN ACCORDANCE WITH THE SPECIFICATIONS.

BASIS OF PAYMENT

ALL COST OF PLACING THE ELASTOMERIC COMPRESSION SEALS, INCLUDING ALL TOOLS, EQUIPMENT, LABOR, MATERIALS AND THE MANUFACTURER'S REPRESENTATIVE, SHALL BE INCLUDED IN THE UNIT PRICE BID FOR ITEM 516 - ELASTOMERIC COMPRESSION SEALS FOR CONCRETE SLAB BRIDGE JOINTS, AS PER PLAN.