

# GENERAL NOTES

LAKE COUNTY LAK-90/271-1.88/0.00		OHIO	15 185
		FHWA REGION 5	
		FEDERAL PROJECT	

ITEM 304 - AGGREGATE BASE, AS PER PLAN

MATERIALS FURNISHED FOR THIS ITEM SHALL EXCLUDE ALL SLAG EXCEPT GRANULATED SLAG OR CRUSHED AIR-COOLED BLAST FURNACE SLAG. [THE MAXIMUM TOTAL PERCENT PASSING THE NO. 200 SIEVE FOR 304 SHALL BE 8% AS OPPOSED TO THE 13% SHOWN IN 304.02].

ITEM 305 - PORTLAND CEMENT CONCRETE BASE, AS PER PLAN

THE SECOND SENTENCE IN 305.01(A) SHALL READ "LOAD TRANSFER DEVICES ARE REQUIRED AT ALL TRANSVERSE CONTRACTION, CONSTRUCTION AND EXPANSION JOINTS. THE MAXIMUM JOINT SPACING SHALL BE 20 FEET".

ITEM 310 - SUBBASE, TYPE I OR II, AS PER PLAN

MATERIALS FURNISHED FOR THIS ITEM SHALL EXCLUDE ALL SLAG EXCEPT GRANULATED SLAG OR CRUSHED AIR-COOLED BLAST FURNACE SLAG AND SHALL EXCLUDE BROKEN SALVAGED PORTLAND CEMENT PAVEMENT.

ITEM 203 - EXCAVATION NOT INCLUDING EMBANKMENT CONSTRUCTION  
ITEM 304 - AGGREGATE BASE, AS PER PLAN

THIS ITEM SHALL BE USED TO REPLACE EXISTING UNSUITABLE SUBBASE PRIOR TO THE PLACING OF ITEM 301 OR 305. THE FOLLOWING ESTIMATED QUANTITIES ARE INCLUDED IN THE GENERAL SUMMARY TO BE USED AS OUTLINED ABOVE:

ITEM 203 - EXCAVATION NOT INCLUDING EMBANKMENT CONST....30 C.Y.  
ITEM 304 - AGGREGATE BASE, AS PER PLAN.....30 C.Y.

ITEM 407 - TACK COAT

THE RATE OF APPLICATION OF 407 - TACK COAT SHALL BE SUBJECT TO ADJUSTMENT, AS DIRECTED BY THE ENGINEER. PLAN QUANTITIES INDICATE AVERAGE APPLICATION RATES OF 0.10 GALLONS PER SQUARE YARD OF TACK COAT FOR USE ON EXISTING PAVEMENT AND 0.075 GALLONS PER SQUARE YARD FOR USE ON NEW PAVEMENT (LANE ADDITIONS) FOR ESTIMATING PURPOSES ONLY.

WHEN THE MAINTENANCE OF TRAFFIC SCHEMES AS DETAILED IN THESE PLANS REQUIRE TRAFFIC TO TRAVEL ON THE INTERMEDIATE COURSE FOR MORE THAN TEN (10) DAYS THE PLACEMENT OF TACK COAT PRIOR TO PLACING THE SURFACE COURSE SHALL BE PAID FOR SEPARATELY (NOT AT THE CONTRACTORS EXPENSE AS PER 401.12). WHEN USED AS SUCH, PLAN QUANTITIES INDICATE APPLICATION RATES OF 0.075 GALLONS PER SQ. YD. FOR ESTIMATING PURPOSES ONLY.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO PERFORM THIS ITEM OF WORK:

ITEM 407 - TACK COAT  
COST PARTICIPATION I.....2,120 GAL.  
● COST PARTICIPATION II.....6,750 GAL.  
▲ COST PARTICIPATION III.....5,250 GAL.

ITEM 446 - ASPHALT CONCRETE SURFACE COURSE, TYPE I, AC-20, AS PER PLAN AND TYPE II INTERMEDIATE COURSE, AC-20, AS PER PLAN

THE AGGREGATE IN THE 446 SURFACE COURSE TYPE I ARE RESTRICTED TO SLAG.  
‡ 446 INTERMEDIATE COURSE, TYPE II

ASPHALT CONCRETE UTILIZING SLAG AGGREGATE (ITEM 446)

SLAG AGGREGATE HAS VARIABLE SPECIFIC GRAVITIES, THEREFORE THE CONTRACTOR SHALL DETERMINE THE MSG SEVERAL TIMES EACH DAY TO PROPERLY CONTROL THE ASPHALT CONCRETE AS PER 441.10. ALL COSTS OF THE ABOVE TESTING AND MIX DESIGNS SHALL BE INCLUDED UNDER THE PERTINENT 446 ITEM.

ITEM 609 - ASPHALT CONCRETE CURB

THIS ITEM SHALL BE USED TO RE-DIRECT THE FLOW OF WATER FROM BRIDGE ABUTMENTS LOCATED AT THE DOWNGRADE SIDE OF EACH BRIDGE.

THE USE OF THIS ITEM SHALL BE LIMITED TO BRIDGES WHICH EXHIBIT EROSION AT THE WINGWALL ENDS OR WHICH HAVE SLOPES 4:1 OR STEEPER ALONG THE SUBJECT CURB AREA.

TWENTY FIVE (25) FEET OF ASPHALT CURB SHALL BE USED AT EACH LOCATION. THE CURB SHALL BUTT CLOSELY TO THE WINGWALL AND BE LOCATED EITHER BEHIND OR UNDER THE GUARDRAIL.

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS OUTLINED ABOVE:

ITEM 609 ASPHALT CONCRETE CURB, AC-20, TYPE I.... 100 L.F.

ITEM 617 - COMPACTED AGGREGATE, TYPE A, AS PER PLAN

THIS ITEM SHALL BE USED ALONG ALL RESURFACED SHOULDERS EXCEPT THOSE WHICH ARE IN A REGRADING AREA OR WHICH ABUT ASPHALT CONCRETE UNDER GUARDRAIL. MATERIAL SHALL BE LIMITED TO CRUSHED SLAG OR CRUSHED LIMESTONE.

THE ACTUAL DEPTH USED WILL VARY DEPENDING UPON EXISTING CONDITIONS. FOR CALCULATION PURPOSES AN AVERAGE DEPTH OF 1.00 INCH WILL BE USED.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN CARRIED TO THE GENERAL SUMMARY:

ITEM 617 - COMPACTED AGGREGATE, TYPE A, AS PER PLAN.....200 800 C.Y.  
ITEM 617 - WATER.....1 4 M.GAL

ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN

IN ADDITION TO THE REQUIREMENTS OF ITEM 623 THE CONTRACTOR SHALL PROVIDE FIELD SURVEYS FOR ALL ASPHALT TRANSITIONS. (SEE SHEET NO. 79) SAID SURVEY SHALL CONSIST OF ELEVATIONS TAKEN AT THE BRIDGE EXPANSION JOINT (WHERE APPLICABLE) AND EXTENDING SEVENTY FIVE (75) FEET ONTO THE ROADWAY. ELEVATIONS AFTER RESURFACING SHALL BE TAKEN AT THE FOLLOWING DISTANCES: 0 FEET, 5 FEET, 10 FEET, 25 FEET, 50 FEET, 65 FEET, 70 FEET, AND 75 FEET. THE CONTRACTOR SHALL PLOT THESE AT EACH LOCATION AT A SCALE OF 1 INCH EQUALS 10 FEET HORIZONTALLY AND 1 INCH EQUALS 1 FOOT VERTICALLY. THIS SURVEY SHALL BE DONE AND THE PLOTTED RESULTS GIVEN TO THE ENGINEER AS SOON AS POSSIBLE AFTER THE PLACEMENT OF THE SURFACE COURSE.

ASPHALT APPROACHES AT BRIDGES

THE ASPHALT APPROACHES TO STRUCTURES SHALL BE PLACED AS SHOWN ON THE DETAILS ON SHEET NO. 79. MINOR SURVEY WORK WILL BE REQUIRED TO DETERMINE THE LIMITS OF THE PAVEMENT PLANING. ALL COSTS OF SAID SURVEY SHALL BE INCLUDED UNDER ITEM 623 - CONSTRUCTION LAYOUT STAKES, AS PER PLAN.

ITEM SPECIAL-SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS, 705.04, SEE NOTE IN PROPOSAL FOR THIS ITEM OF WORK.

PRIOR TO PHASES 2, 4, AND 6 CONSTRUCTION, JOINTS IN THE INTERMEDIATE COURSE SHALL BE SAWED AND SEALED PRIOR TO OPENING THE ROADWAY TO TRAFFIC. AFTER PLACING THE SURFACE COURSE, ALL PAVEMENT SHALL BE SAWED AND SEALED PRIOR TO OPENING THE ROADWAY TO TRAFFIC. SAWING AND SEALING THE SURFACE COURSE SHALL BE PAID FOR SEPARATELY FROM SAWING AND SEALING THE INTERMEDIATE COURSE. RAMPS E, F, G, AND H SHALL BE SAWED AND SEALED ONLY AFTER THE SURFACE COURSE IS PLACED.

THE FOLLOWING ESTIMATED QUANTITIES HAVE BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS OUTLINED ABOVE:

ITEM SPECIAL - SAWING AND SEALING ASPHALT CONCRETE PAVEMENT JOINTS  
705.04.....72,020 299,350 93,140 L.F.

ITEM SPECIAL - PRESSURE RELIEF JOINTS, TYPE B

A. EXISTING PAVEMENT

PRIOR TO RESURFACING THE EXISTING PAVEMENT, THE ENGINEER IS TO EXAMINE THE CONDITION OF EXISTING PRESSURE RELIEF JOINTS. ANY UNSATISFACTORY JOINTS ARE TO BE REPLACED WITH TYPE B PRESSURE RELIEF JOINTS AS SHOWN ON STANDARD DRAWING BP-2.4. AN ESTIMATED QUANTITY OF REPLACEMENT JOINTS, AS INDICATED BELOW, HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE B.....72 480 L.F.

B. NEW CONCRETE BASE FOR PAVEMENT OR SHOULDERS

WHERE NEW CONCRETE BASE OR SHOULDERS ARE ADDED TO THE EXISTING PAVEMENT, THE EXISTING PRESSURE RELIEF JOINTS ARE TO BE EXTENDED AT THE SAME LOCATION THROUGH THE NEW CONCRETE BASE. AN ESTIMATED QUANTITY OF NEW PRESSURE RELIEF JOINTS HAS BEEN CARRIED TO THE GENERAL SUMMARY FOR USE AS DIRECTED BY THE ENGINEER.

ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE B.....24 24 480 L.F.

ITEM SPECIAL - PRESSURE RELIEF JOINTS, TYPE C

THIS ITEM SHALL BE USED TO INSTALL OR REPLACE PRESSURE RELIEF JOINTS AT BRIDGES NO. LAK-271-0001 (WHITE ROAD), LAK-90-0105 (CHARDON ROAD) AND LAK-90-0380 (MAPLEGROVE ROAD).

THE FOLLOWING ESTIMATED QUANTITY HAS BEEN INCLUDED IN THE GENERAL SUMMARY TO BE USED AS OUTLINED ABOVE:

ITEM SPECIAL - PRESSURE RELIEF JOINT, TYPE C..... 156 LIN.FT.

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