TENNESSEE D.O.T.
DESIGN DIVISION
FILE NO.

TYPE	YEAR	PROJECT NO.	SHEET NO.
FED. AID PROJ. NO.	2014	STP/HSIP-48(49)	B1
STATE PROJ. NO.	2014	41005-8240-14	
BRIDGE REPAIR	2014	41005-4240-04	

PROJECT PIN 119197.00

TABULATION OF BRIDGE RELATED WORK AND ESTIMATED QUANTITIES

LOCATION OF BRIDGE AND BRIDGE NUMBER	REFERENCE DRAWINGS TO BE PRINTED WITH CONTRACT DRAWINGS	TYPE OF WORK	604-10.50 BRIDGE DECK REPAIR (PARTIAL DEPTH OF SLAB) SY	617-04.01 TYPE 1 THIN OVERLAY (EPOXY URETHANE) SY
41-SR48-13.55/ DUCK RIVER BRIDGE ID (41SR0480021)		BRIDGE DECK REPAIR EPOXY THIN OVERLAY	5	7260
TOTAL			5	7260

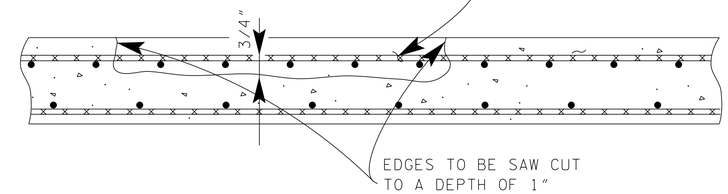
POWER DRIVEN HAND TOOLS:

POWER DRIVEN HAND TOOLS USED FOR THE REMOVAL OF UNSOUND CONCRETE IN MAKING PARTIAL AND FULL DEPTH REPAIRS ARE SUBJECT TO THE FOLLOWING RESTRICTIONS: (1) PARTIAL DEPTH REPAIRS; PNEUMATIC HAMMERS HEAVIER THAN NOMINAL 60 lb. CLASS SHALL NOT BE USED. ALSO TRAFFIC CONTROL SHALL BE SET UP DURING PARTIAL DEPTH REPAIRS OVER TRAFFIC. (2) FULL DEPTH REPAIRS; PNEUMATIC HAMMERS HEAVIER THAN NOMINAL 90 lb. CLASS SHALL NOT BE USED. ALSO ALL DECK REPAIR OVER BEAMS WILL BE RESTRICTED TO 60 lb. PNEUMATIC HAMMERS. (3) CHIPPING HAMMERS OF THE 15 lb. CLASS SHALL BE USED TO REMOVE CONCRETE FROM BENEATH ANY REINFORCING STEEL.

BRIDGE DECK REPAIR MATERIAL

IF OVERNIGHT LANE CLOSURES ARE PROVIDED FOR THIS PROJECT AND THE LANE CLOSURES ARE SUCH THAT TRAFFIC WILL BE KEPT OFF THE BRIDGE DECK WHERE DECK REPAIRS WILL BE MADE. THEN HIGH EARLY STRENGTH CONCRETE SHALL BE USED WITH A COMPRESSIVE STRENGTH OF 3,000 p.s.i. AT 18 HOURS. THE CONTRACTOR SHALL PROVIDE PROOF PRIOR TO BEGINNING WORK THAT PROPOSED CONCRETE MIX WILL OBTAIN REQUIRED PROPERTIES. PROOF SHALL BE PROVIDED BY AN INDEPENDENT TESTING COMPANY AND SUBMITTED TO THE MATERIAL AND TEST DIVISION OF TENNESSEE DEPARTMENT OF TRANSPORTATION FOR APPROVAL. THE MIX TO MEET THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS CLASS "A". EXCEPT THE CEMENT SHALL BE A MINIMUM OF 714 lbs. A HIGH RANGE, WATER REDUCING ADMIXTURE (SUPERPLASTICIZER) SHALL BE USED SUBJECT TO THE APPROVAL OF AND THE CONCRETE SHALL ATTAIN A MINIMUM OF COMPRESSIVE STRENGTH OF 3,000 p.s.i. IN 18 HOURS. TRAFFIC SHALL NOT BE ALLOWED ON REPAIRED AREAS UNTIL THE CONCRETE HAS BEEN IN PLACE A MINIMUM OF 18 HOURS

CONCRETE FOR DECK REPAIR SHALL BE HIGH EARLY CONCRETE WITH A COMPRESSIVE STRENGTH OF 3,000 p.s.i. AT 18 HOURS



SKETCH SHOWING DECK REPAIR

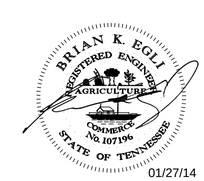
NOTE: REMOVE CONCRETE IN ALL DELAMINATED AREAS TO A DEPTH OF ¾" BELOW THE TOP BAR OF THE TOP MAT OF REINFORCING STEEL. ALL REINFORCING STEEL IN AREAS OF DECK REPAIR SHALL BE COMPLETELY CLEANED. CLEANING SHALL BE DONE PRIOR TO PLACING NEW CONCRETE OR INSTALLING PATCHING MATERIAL. AREAS OF CONCRETE REMOVAL SHALL BE DESIGNATED BY PERSONNEL FROM THE HEADQUARTERS, BRIDGE INSPECTION AND REPAIR OFFICE. INSPECTIONS TO DETERMINE AREAS OF DECK REPAIR SHALL BE SCHEDULED WITH THE BRIDGE REPAIR OFFICE AT LEAST THREE (3) DAYS IN ADVANCE.

NOTE: ITEM NO. 604-10.50, BRIDGE DECK REPAIR (PARTIAL DEPTH OF SLAB) SHALL BE BID WITH THE CONTINGENCY THAT THIS MAY BE INCREASED, DECREASED OR ELIMINATED AS DIRECTED BY THE ENGINEER.

NOTE: TRAFFIC CONTROL SHALL BE PROVIDED ON ROADWAY UNDERPASS DURING PARTIAL DEPTH DECK REPAIR OF OVERHEAD BRIDGE.

NOTE: ALL CONCRETE REPAIRS SHALL RECEIVE A WET CURE FOR THE DURATION OF THE CURE

NOTE: THE COST OF CONCRETE, CONCRETE REMOVAL, LABOR, CLEANING REBARS AND ANY MISCELLANEOUS MATERIAL REQUIRED SHALL BE PAID FOR UNDER ITEM NO. 604-10.50 BRIDGE DECK REPAIR (PARTIAL DEPTH OF SLAB), S.Y.



01/27/14

STATE OF TENNESSEE
DEPARTMENT OF TRANSPORTATION

BRIDGE TABULATION AND ESTIMATED QUANTITIES