TOWN:
TC JOIN WORK FOR BRIDGES
TAPR
SON
Rev.
ON MEMBRANE WATERPROOFING
BITUMINOUS CONCRETE OVERLAY

REVISION DESCRIPTION

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OVERLAY (TYP.)
OF BITUMINOUS CONCRETE
SAWCUT PRIOR TO REMOVAL
CONTRACTOR SHALL PROVIDE DENSITY TESTING WITH A QC NUCLEAR DENSITY
IF THESE METHODS ARE NOT PERFORMED TO THE SATISFACTION OF THE
APPROVED BY THE ENGINEER PRIOR TO USE.

20 TIMES MINIMUM BEFORE MATERIAL COOLS TO 180°F.
AT CORNERS OR OTHER AREAS INACCESSIBLE TO PLATE TAMPER, HAND TAMP
COMPACTION BEFORE MATERIAL COOLS TO 180°F.
ADDITIONAL COMPACTING EQUIPMENT MAY BE REQUIRED TO COMPLETE LIFT

REQUIREMENTS FOR PROPER COMPACTION:
TOP LIFT MUST BE UNIFORM THICKNESS; INTERMEDIATE LIFTS CAN BE
SHALL BE FOLLOWED TO ASSURE PROPER COMPACTION.

LIFT THICKNESS (INCHES) NUMBER OF PASSES BASED ON LIFT THICKNESS AS FOLLOWS:
1 1/16 TO 1 1/8 8
1 1/2 2 1/2 12
1 3/4 TO 2 10
2 1/2 12

TEMPERATURE REQUIREMENT WILL BE REJECTED.
SPREAD MATERIAL BEFORE IT COOLS TO 260°F. MATERIAL BELOW
MINIMUM 265°F DELIVERY TEMPERATURE OF MATERIAL. PLACE AND
INSTALLATION OF MEMBRANE WITHIN THE LIMITS SHOWN TO BE PAID UNDER THE ITEM.

CONTRACTOR SHALL NOTIFY THE DEPARTMENT IF THE EXISTING PAVEMENT IS
SPECIAL PROVISION.
SELECTED JOINT PRODUCT IN THE TABLE FOR "INSTALLATION RESTRICTIONS" IN THE
TEMPERATURE RANGE SPECIFIED IN THE SPECIAL PROVISION "ASPHALTIC PLUG
ASPHALTIC PLUG EXPANSION JOINT SYSTEMS MAY BE INSTALLED ONLY WITHIN THE
ASPHALTIC PLUG JOINT INSTALLATION TO BE INCLUDED FOR PAYMENT UNDER THE ITEM.
THE FURNISHING AND PLACING OF TEMPORARY PAVEMENT IN THE JOINT CUT-OUT
SHALL BE PAID UNDER THE ITEM "REMOVAL OF EXISTING WEARING SURFACE".
THE DEPTH OF PROPOSED ASPHALTIC PLUG JOINT IS ESTIMATED TO BE 4"
AVERAGE.

NEW STEEL BRIDGING PLATES SHALL BE A MINIMUM OF 
SOC.
8" THICK BY 12" WIDE; PLACE AND INSTALLATION OF THE BRIDGING PLATE WHERE THE APPROACH
SLAB IS DISCONTINUED (TYPICALLY IN THE ROADWAY SHOULDERS). SEE
DISCONTINUE THE INSTALLATION OF THE BRIDGING PLATE WHERE THE APPROACH
SLAB OR APPROACH PAVEMENT
EXISTS OR THE JOINT BETWEEN A DECK END AND A CONCRETE APPROACH SLAB.
WILL BE REQUIRED FOR JOINT OPENINGS WHICH EXCEED 3", A …" THICK BY 12" WIDE PLATE
SHALL BE USED.

SILICONE GLAND TO BE PAID UNDER THE ITEM "REMOVAL OF EXISTING WEARING SURFACE".
ASPHALTIC PLUG JOINT INSTALLATION TO BE INCLUDED FOR PAYMENT UNDER THE ITEM "REMOVAL OF EXISTING WEARING SURFACE".
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THE DEPTH OF PROPOSED ASPHALTIC PLUG JOINT IS ESTIMATED TO BE 4"
SUGGESTED SEQUENCE OF WORK


STEP 2: REMOVE EXISTING PAVEMENT MATERIAL AND JOINT MATERIAL TO BRIDGE DECK LEVELS ALONG THE ENTIRE LENGTH OF THE BRIDGE. REMOVE BRIDGING PLATES PRIOR TO MILLING THE PAVEMENT.

STEP 3: INSTALL TEMPORARY BACKER ROD AT THE TOP SURFACE OF THE JOINT TO PREVENT BITUMINOUS CONCRETE FROM ENTERING THE JOINT.

STEP 4: INSTALL MEMBRANE WATERPROOFING TO THE TOP OF DECK AND APPROACH SLAB WITHIN THE LIMITS SHOWN.

STEP 5: PLACE BITUMINOUS CONCRETE OVERLAY AS INDICATED ON THE PLANS.

STEP 6: SAW-CUT PAVEMENT FULL DEPTH AT 10" EACH SIDE OF CENTERLINE OF JOINT AND REMOVE PAVEMENT MATERIAL BETWEEN SAW-CUTS. TO BE PAID FOR UNDER THE ITEM "REMOVAL OF EXISTING WEARING SURFACE." CONTRACTOR SHALL ALSO MEASURE THE DECKING GAP OPENING FOR SIZING OF THE FOAM SUPPORTED SILICONE GLAND AND BRIDGING PLATE. LOCATING PINs SHALL BE USED TO SECURE THE BRIDGING PLATE.

STEP 7: INSTALL PROPOSED ASPHALTIC PLUG EXPANSION JOINT SYSTEM WITH FOAM SUPPORTED SILICONE GLAND AND BRIDGING PLATE. LOCATING PINs SHALL BE USED TO SECURE THE BRIDGING PLATE.

STEP 8: INSTALL CRACK SEAL AT CURB LINE ALONG THE LENGTH OF THE BRIDGE. BOTH SIDES SILL SEALING SHALL BE INCLUDED FOR PAYMENT UNDER THE ITEM "JOINT AND CRACK SEALING OF BITUMINOUS CONCRETE PAVEMENT."
**SUGGESTED SEQUENCE OF WORK**

**STEP 1:** Contractor shall perform an exploration at the gutterline (at the four corners of the bridge and the crown (at the beginning and end of the bridge) a minimum of six (6) representative depth measurements shall be taken per bridge at these locations to determine the depth of pavement and the location of the deck joint. Contractors are responsible for determining the location of the deck joint centerline and special provisions for removal of existing waterproofing. Contractor shall also measure the joint deck gap opening for sizing of the foam supported silicone gland.

**STEP 2:** Saw-cut the bituminous pavement to the limits shown in detail for "Joint and Crack Sealing of Bituminous Concrete Pavement." Saw-cut shall not damage the bridge deck or approach slab. To be paid for under item "Removal of Existing Waterproofing Surface".

**STEP 3:** Place crack sealant on the horizontal surface at pavement cutout joints. To be paid for under "Removal of Existing Waterproofing Surface".

**STEP 4:** Saw-cut the existing pavement material and joint material full depth within the limits shown to be paid under the step "Removal of Existing Waterproofing Surface." Saw-cut shall not damage the bridge deck or approach slab. To be paid for under item "Removal of Existing Waterproofing Surface".

**STEP 5:** Saw-cut the existing pavement material and joint material full depth within the limits shown to be paid under the step "Removal of Existing Waterproofing Surface." Saw-cut shall not damage the bridge deck or approach slab. To be paid for under item "Removal of Existing Waterproofing Surface".

**STEP 6:** Saw-cut the existing pavement material and joint material full depth within the limits shown to be paid under the step "Removal of Existing Waterproofing Surface." Saw-cut shall not damage the bridge deck or approach slab. To be paid for under item "Removal of Existing Waterproofing Surface".

**STEP 7:** Place crack sealant on the horizontal surface at pavement cutout joints. To be paid for under "Removal of Existing Waterproofing Surface".

**STEP 8:** Saw-cut the existing pavement material and joint material full depth within the limits shown to be paid under the step "Removal of Existing Waterproofing Surface." Saw-cut shall not damage the bridge deck or approach slab. To be paid for under item "Removal of Existing Waterproofing Surface".

**STEP 9:** Saw-cut the existing pavement material and joint material full depth within the limits shown to be paid under the step "Removal of Existing Waterproofing Surface." Saw-cut shall not damage the bridge deck or approach slab. To be paid for under item "Removal of Existing Waterproofing Surface".

**STEP 10:** Place crack sealant on the horizontal surface at pavement cutout joints. To be paid for under "Removal of Existing Waterproofing Surface".

**STEP 11:** Saw-cut the existing pavement material and joint material full depth within the limits shown to be paid under the step "Removal of Existing Waterproofing Surface." Saw-cut shall not damage the bridge deck or approach slab. To be paid for under item "Removal of Existing Waterproofing Surface".

**STEP 12:** Saw-cut the existing pavement material and joint material full depth within the limits shown to be paid under the step "Removal of Existing Waterproofing Surface." Saw-cut shall not damage the bridge deck or approach slab. To be paid for under item "Removal of Existing Waterproofing Surface".

**STEP 13:** Saw-cut the existing pavement material and joint material full depth within the limits shown to be paid under the step "Removal of Existing Waterproofing Surface." Saw-cut shall not damage the bridge deck or approach slab. To be paid for under item "Removal of Existing Waterproofing Surface".

**STEP 14:** Saw-cut the existing pavement material and joint material full depth within the limits shown to be paid under the step "Removal of Existing Waterproofing Surface." Saw-cut shall not damage the bridge deck or approach slab. To be paid for under item "Removal of Existing Waterproofing Surface."