

**ASPHALTIC PLUG TYPE JOINT DETAIL**

BR 20 VT. ROUTE 104 ST. ALBANS TOWN MM 2.865  
 MM 2.834 - 45 FT  
 MM 2.896 - 45 FT

**ASPHALTIC PLUG BRIDGE JOINT  
 GENERAL NOTES**

**INSTALLATION:**

LOCATE THE JOINT CENTRALLY OVER THE DECK OVERLAY EXPANSION GAP OR FIXED JOINT MARKED OUT TO THE MANUFACTURER'S RECOMMENDED WIDTH.

REMOVE THE BITUMINOUS CONCRETE PAVEMENT FULL DEPTH AS SHOWN ON THE PLANS. THE PAVEMENT SHALL BE DRY AND SAW CUT TO THE LIMITS REQUIRED TO PLACE THE JOINT. A PNEUMATIC HAMMER AND CHISEL MAY BE USED ADJACENT TO THE CURB ONLY WHEN SAW CUTTING IS NOT POSSIBLE.

BLAST CLEAN THE JOINT AREA OF DEBRIS, ASPHALT AND SHEET MEMBRANE. THOROUGHLY DRY THE JOINT AREA WITH COMPRESSED AIR PRIOR TO APPLYING BINDER MATERIAL.

REPAIR SPALLED AND DEFECTIVE CONCRETE WITH AN APPROVED MATERIAL AS AGREED UPON BY THE ENGINEER.

PLACE PROPERLY SIZED HEAT RESISTANT BACKER ROD IN THE MOVEMENT GAP ALLOWING FOR 1 INCH +/- OF BINDER ABOVE THE ROD.

HEAT AND PLACE THE BINDER MATERIAL AS RECOMMENDED BY THE MANUFACTURER.

PLACE 1/4 INCH THICK BY 8 INCH WIDE SECTIONS OF STEEL PLATE OVER THE CENTER OF THE MOVEMENT GAP. SECURE THE PLATES FROM MOVING BY INSERTING LOCATING PINS THROUGH THE PRESTAMPED HOLES INTO BACKER ROD AND COVER WITH HOT BINDER. THE STEEL PLATES MAY BE OMITTED WHERE THE ENGINEER DETERMINES THAT THE APPROACH SLAB OR BRIDGE DECK WILL PROVIDE INADEQUATE SUPPORT AND WHERE VERTICAL MOVEMENT OF THE PLATES MIGHT OCCUR.

HEAT AND MIX THE BINDER MATERIAL AND AGGREGATE AS RECOMMENDED BY THE MANUFACTURER.

INSTALLATION OF MATERIAL, COMPACTION, AND TOPCOATING SHALL BE AS RECOMMENDED BY THE MANUFACTURER.

IMMEDIATELY AFTER TOPCOATING, CAST AN ANTI-SKID MATERIAL OVER THE JOINT TO REDUCE THE RISK OF TRACKING.

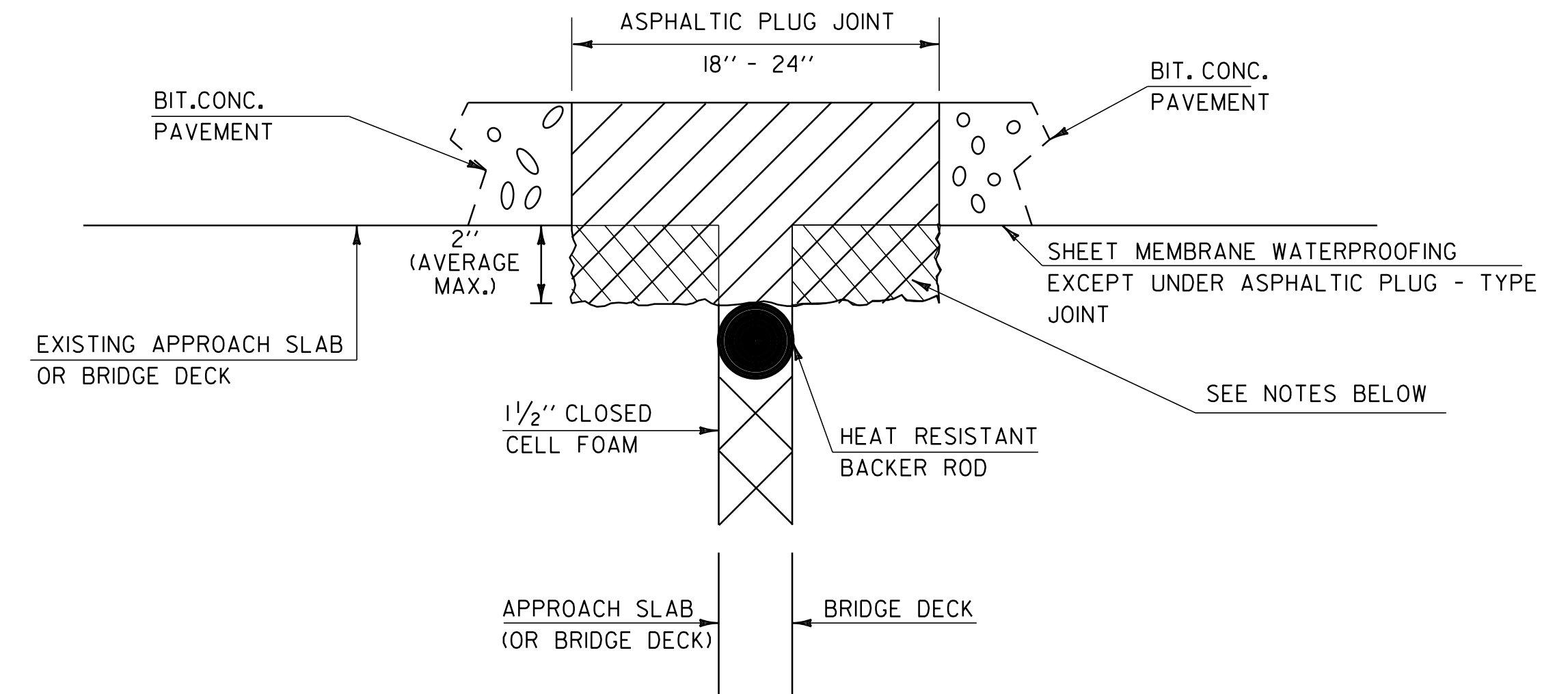
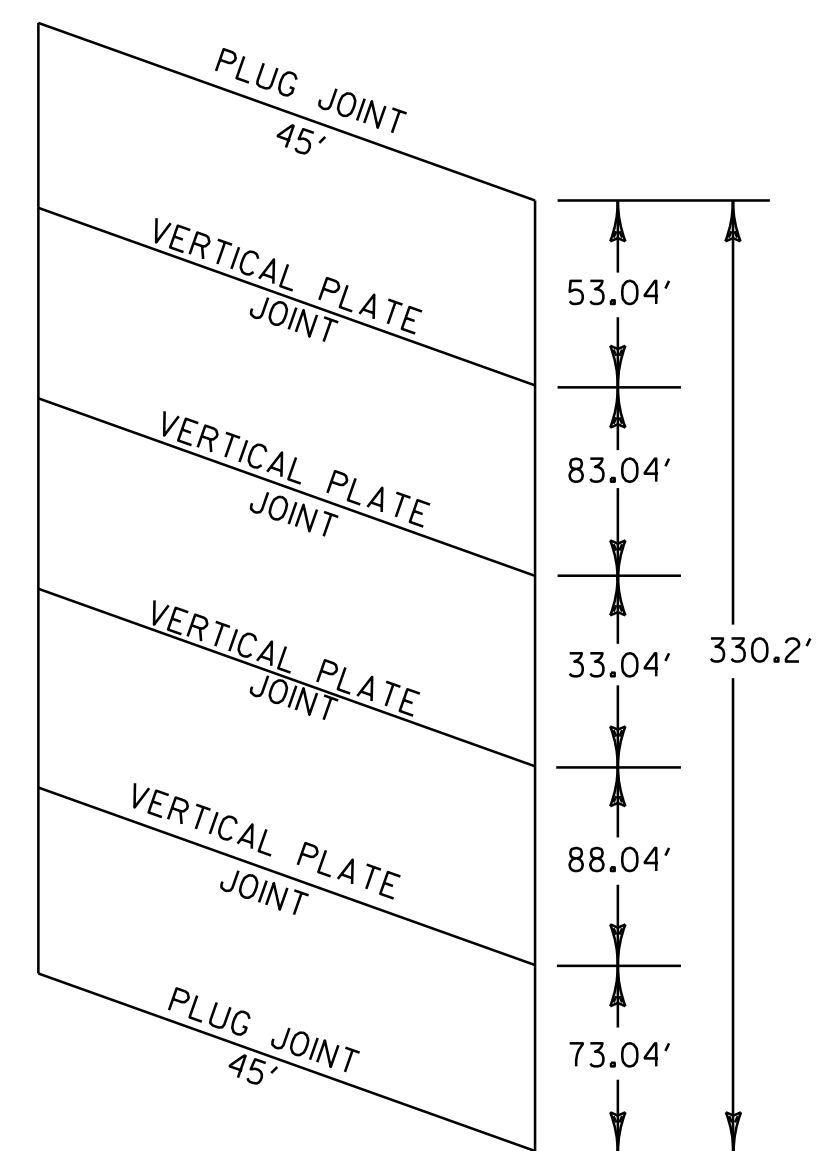
ONCE THE JOINT REACHES 82 DEG C (180 DEF F) +/-, WATER MAY BE USED TO EXPEDITE THE COOLING PROCESS.

PROTECT JOINT FROM TRAFFIC UNTIL THE MATERIAL HAS COOLED TO 51 DEG C (125 DEG F) +/-.

**WEATHER LIMITATIONS:**

APPLY BINDER MATERIAL ONLY WHEN THE FOLLOWING CONDITIONS PREVAIL OR AS RECOMMENDED BY THE MANUFACTURER:

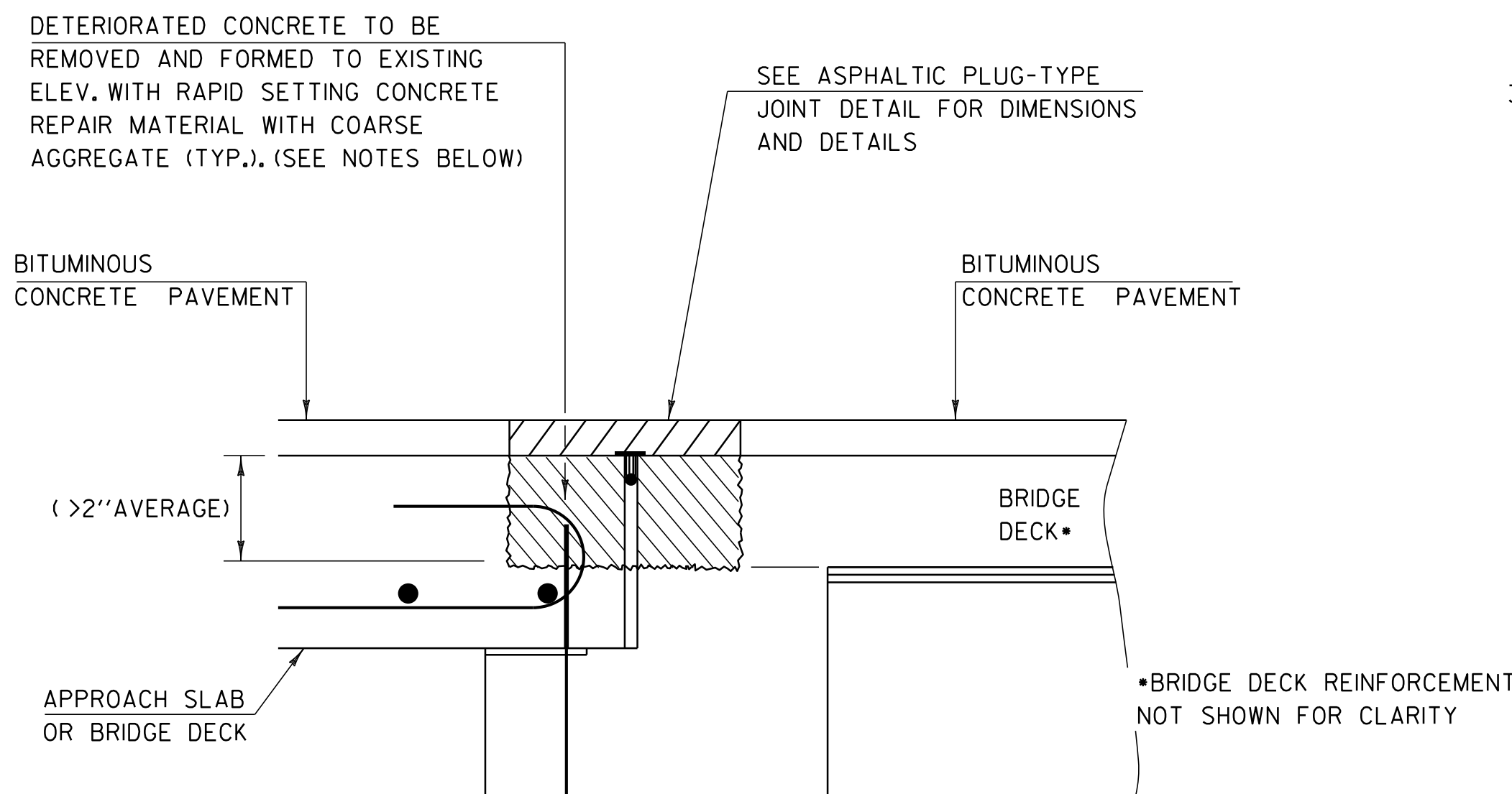
- (A) THE AMBIENT AIR TEMPERATURE IS AT LEAST 10 DEG C (50 DEG F) AND RISING.
- (B) THE ROAD SURFACE IS DRY.
- (C) WEATHER CONDITIONS OR OTHER CONDITIONS ARE FAVORABLE AND ARE EXPECTED TO REMAIN SO FOR THE PERFORMANCE OF THE SATISFACTORY WORK.



**ASPHALTIC PLUG-TYPE JOINT DETAIL**

**NOTES: REMOVAL OF UP TO 2\"/>**

1. UPON ENCOUNTERING UP TO 2\"/>
2. REMOVAL OF DETERIORATED CONCRETE WILL NOT BE PAID SEPARATELY BUT WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR ITEM 516.10. THE ADDITIONAL PLUG JOINT MATERIAL BELOW THE DESIGN DEPTH TO REPLACE THE DETERIORATED CONCRETE WILL BE CONSIDERED INCIDENTAL TO THE UNIT BID PRICE FOR THE ITEM 516.10.
3. THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED AS SHOWN IN THE DETAIL ABOVE IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.



**ASPHALTIC PLUG-TYPE JOINT DETAIL  
 REMOVAL OF >2\"/>**

**NOTES:**

1. UPON ENCOUNTERING GREATER THAN 2\"/>
2. REMOVAL OF THE DETERIORATED CONCRETE WILL BE INCLUDED IN THE UNIT BID PRICE FOR ITEM 580.20 \*RAPID SETTING CONCRETE REPAIR MATERIAL WITH COARSE AGGREGATE\*.
3. THE STEEL PLATE IN THE ASPHALTIC PLUG JOINT MAY BE OMITTED ONLY IF THE REPAIRED SURFACE IS SO IRREGULAR IT WILL CAUSE VERTICAL MOVEMENT AND IT IS DIRECTED BY THE RESIDENT ENGINEER.

**NOT TO SCALE**

**ASPHALTIC PLUG  
 JOINT  
 DETAIL SHEET**

PROJECT NAME: FAIRFAX - ST. ALBANS TOWN  
 PROJECT NUMBER: STP 2217(1)  
 FILE NAME: p99cl86.dgn  
 PROJECT LEADER: T. DOMEY  
 DESIGNED BY: K. LOCKE  
 IPARM FILE NAME: p99cl86apjd.i  
 PLOT DATE: 11-OCT-2011 11:48  
 DRAWN BY: K. LOCKE  
 CHECKED BY: PAVT MGMT  
 SHEET 4 OF 25