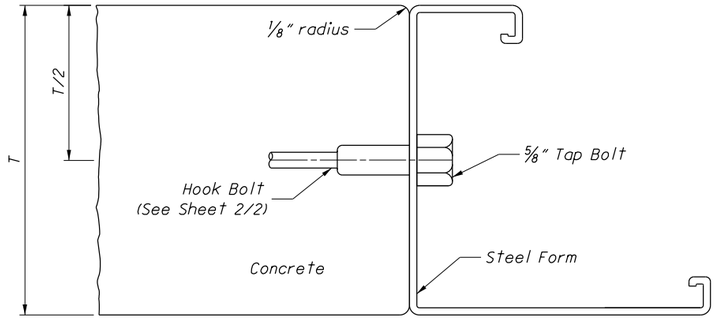
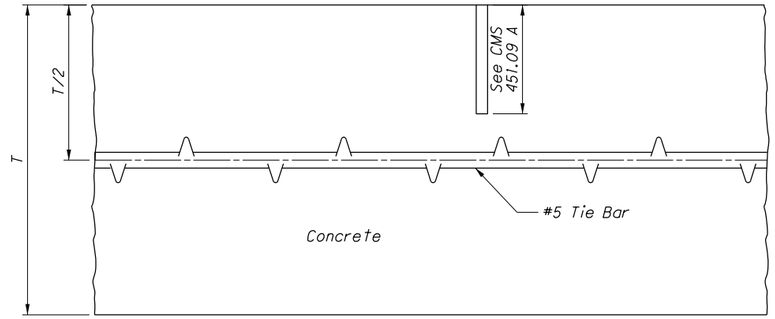


ACCEPTABLE METHOD OF FORMING JOINT



SAWED JOINT

NOTES

GENERAL: *Longitudinal joints shall be used when specified on the typical section and shall be constructed as shown on this drawing in Items 451 and 452 Pavement and Item 305 Base.*

The joint shall be on the centerline of the pavement unless otherwise shown on the plans. Where the pavement width exceeds 16', an additional longitudinal joint shall be introduced into the jointing details as directed by the Engineer.

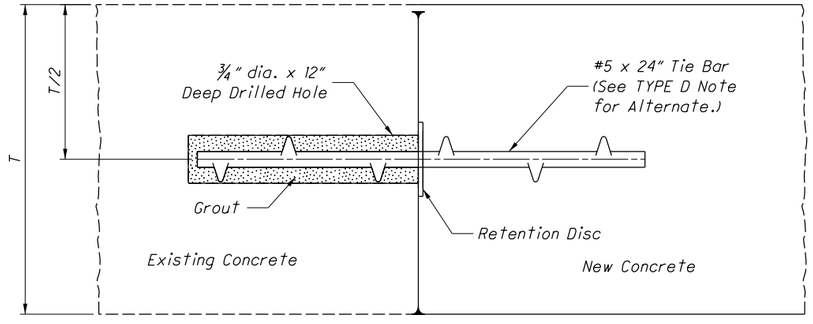
Tie bars shall be #5 deformed bars. A satisfactory device shall be used to hold the tie bars in proper positions or they may be installed by a mechanical installing device. Tie bars shall be centered on the longitudinal joint as nearly as practical.

BUTT JOINT: *The longitudinal joint between adjoining slabs poured in separate operations shall be butt joint with hook bolts or tie bars, unless otherwise shown on the plans. Bent tie bars shall not be permitted.*

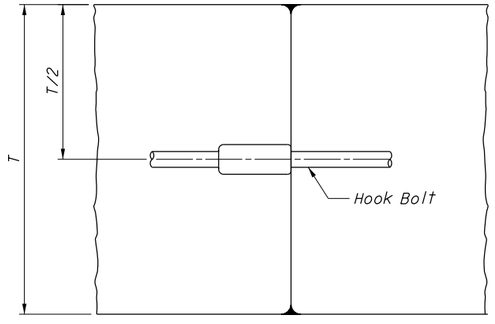
TYPE D (DRILLED TIED LONGITUDINAL) JOINT: *Type D joints shall be constructed in accordance with CMS 255.05. The nylon or plastic retention disc shall be clear or opaque white in color. Grout shall meet the requirements or CMS 255.02. 5/8" expansion anchors, 712.01.A may be used in lieu of the #5 x 24" deformed bar and shall be installed according to the manufacture's recommendations.*

The use of self drilling expansion shield anchors, 712.01.B shall not be permitted.

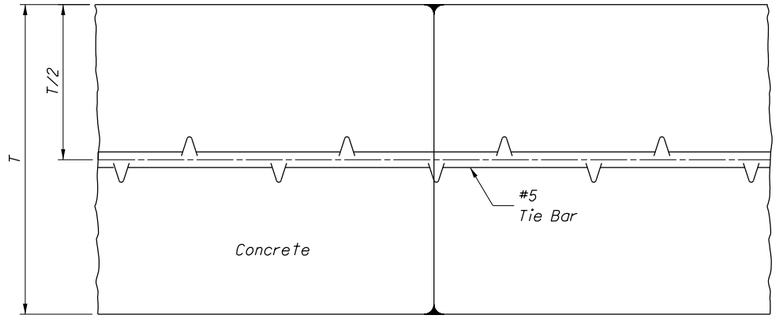
See sheet 2/2 for additional details.



TYPE D (DRILLED TIED LONGITUDINAL) JOINT



BUTT JOINT
w/ HOOK BOLT



BUTT JOINT
w/ TIE BAR

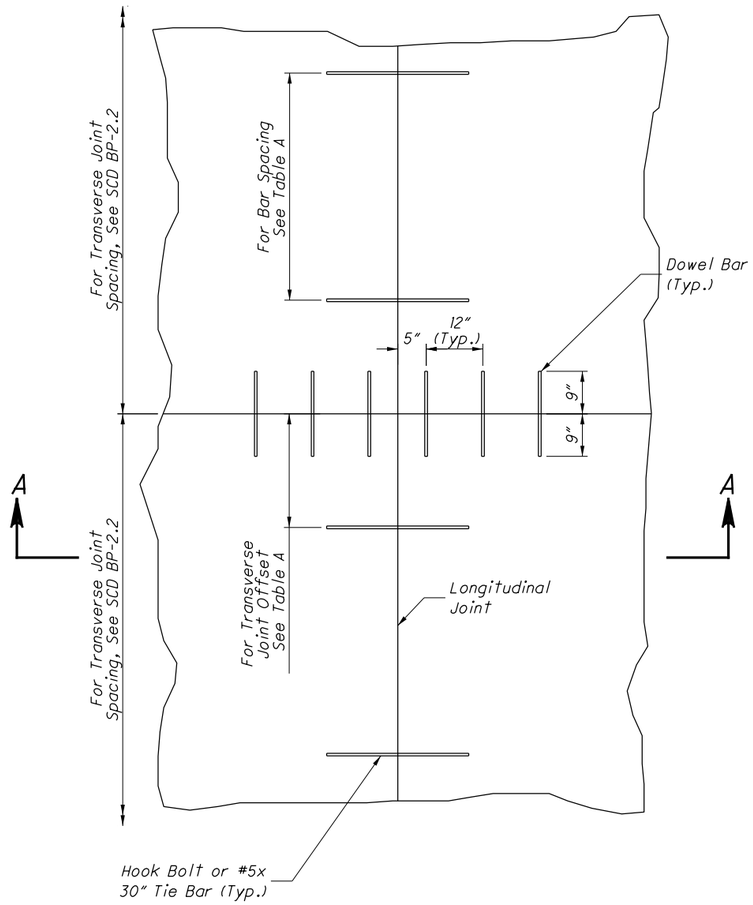
REVISION DATE	STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATOR	STDS. ENGINEER	OFFICE OF PAVEMENT ENGINEERING
7-17-2015	David J. Humphrey	D. Miller	

THIS DRAWING REPLACES BP-2.1 DATED 7-19-13.

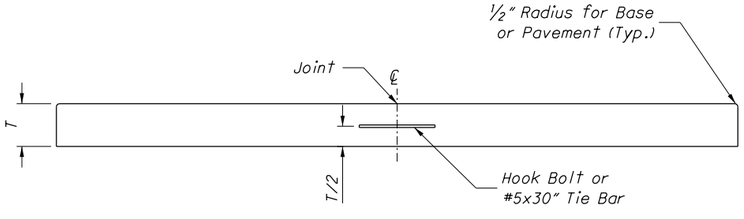
STANDARD ROADWAY CONSTRUCTION DRAWING

LONGITUDINAL PAVEMENT JOINTS

SCD NUMBER **BP-2.1**

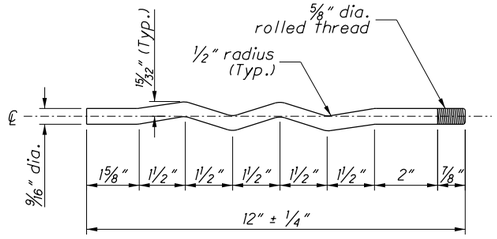


PLAN

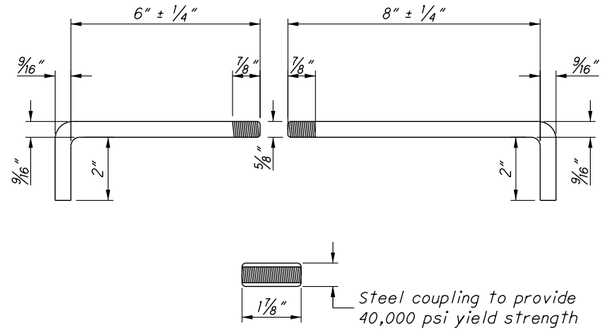


SECTION A-A

TIE BAR OR HOOK BOLT SPACING

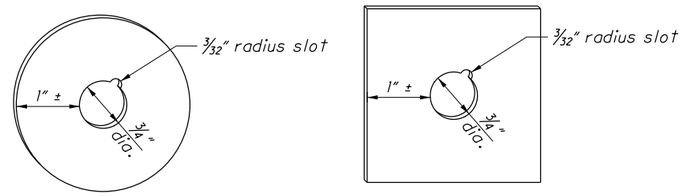


HOOK BOLT ALTERNATE



HOOK BOLT

TABLE A			
Transverse Joint Spacing	Number of Tie Bars per Slab	Max. spacing between Tie Bars	Minimum Offset to Transverse Joint
15′	6	30"	15"
21′	8	30"	21"



NYLON OR PLASTIC GROUT RETENTION DISCS FOR DOWEL/TIE BARS

(1/16" min. thick)

EDGING: *Edge butt joints with a thin metal edger having a radius of ⅛". Finish the free edges of the pavement with a thin metal edger having a radius of ½". Any impression left in the surface of the pavement by the flat part of the edging tool shall be eliminated.*

HOOK BOLTS: *Threaded hook bolts and alternates shall be turned to a tight fit when installed in couplings. Ensure the coupling is located on the same side of the joint as the shorter (6" +/-¼" hook bolt.*

METAL STRENGTH: *Tie bars, hook bolts assemblies, and the hook bolt alternate shall have a minimum yield strength of 40,000 psi.*

SPACING: *Tie bars shall not be located within 15" of any transverse joint.*

REVISION DATE 7-17-2015

STATE OF OHIO DEPARTMENT OF TRANSPORTATION ADMINISTRATOR David J. Humphrey

STDS. ENGINEER D. Miller

OFFICE OF PAVEMENT ENGINEERING

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STANDARD ROADWAY CONSTRUCTION DRAWING

LONGITUDINAL PAVEMENT JOINTS

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