LONGITUDINAL SAWED JOINT

- Sawed groove
- No. 6 x 30 (No. 19 x 750) Tie bars at 36 (900) cts.
- (shown on support pins)
- Hot poured joint sealer
- Form

LONGITUDINAL CONSTRUCTION JOINT

- Tie bar formed in place or mechanically inserted
- Form

LONGITUDINAL KEYED JOINT

- Type C metal joint or approved equal
- Side form

- * 8 (203) min. pavement thickness for keyed joints.

LONGITUDINAL CONSTRUCTION JOINT

(TIE BAR GROUTED IN PLACE)

- Preformed or drilled hole (bar size + 3/4)
- Hot poured joint sealer
- Form

TYPE C METAL JOINT

- Channel pin, size sufficient to securely hold joint in place, spaced not more than 3'-4" (1.02 m) cts.
- 0.0598 x 2 (1.5 x 50)

SUPPORTING CHAIR ALTERNATE

- No. 6 x 24 (No. 19 x 400) Tie bars at 36 (900) cts.

GENERAL NOTES

- All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
- All dimensions are in inches (millimeters) unless otherwise shown.

DATES

- 1-1-22: Revised DOWEL BAR TABLE on Sheet 2
- 1-1-12: Changed tie bar spacing to 36 (900) cts., Revised DOWEL BAR TABLE

THIS SHEET IS PART OF THE

ILLINOIS DEPARTMENT OF TRANSPORTATION

STANDARD 420001-10

PAVEMENT JOINTS

(Sheet 1 of 2)
**TRANSVERSE EXPANSION JOINT**

(for pavements with unequal thickness)

- Expansion caps shall be installed on the exposed end of each dowel bar once the header has been removed and the joint filler material has been installed.

- Expansion cap

- Dowel bar assembly

- See SEALING DETAIL below

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**TRANSVERSE CONTRACTION JOINT**

18 (450) long dowel bars at 12 (300) cts.

Expansion cap *

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**TRANSVERSE EXPANSION JOINT**

(for pavements with equal thickness)

- Dowel bar assembly

- See SEALING DETAIL below

---

**TRANSVERSE CONTRACTION JOINT**

(for CAM, CFA and LFA base course mixtures)

- Dowel bar assembly

- See SEALING DETAIL (Sheet 2 of 2)

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**SEALING DETAIL**

Joint sealer

Hot poured with edger

Finish corners

Joint filler

Foam

Flexible

Preformed

Closed cell

Stabilized

Base course

Bituminous surface

4 (100) (typ.)

This portion of saw cut not required when base course and surface are cut separately.

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**DOWEL BAR TABLE**

<table>
<thead>
<tr>
<th>PAVEMENT BAR THICKNESS</th>
<th>DOWEL BAR DIAMETER</th>
</tr>
</thead>
<tbody>
<tr>
<td>10 (250) and greater</td>
<td>16 (138)</td>
</tr>
<tr>
<td>8.01 (200) thru 9.99 (249)</td>
<td>16 (132)</td>
</tr>
<tr>
<td>8 (200) and less</td>
<td>3 (125)</td>
</tr>
</tbody>
</table>