<table>
<thead>
<tr>
<th>SHEET NO.</th>
<th>SUBJECT</th>
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<tr>
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<td>D-1 Contraction Joint Details</td>
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<td>4</td>
<td>Transverse Construction Joint Details</td>
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<td>5</td>
<td>Longitudinal Joint Details</td>
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</tbody>
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**GENERAL NOTES:**

1. Dowel bars shall be epoxy coated.
2. Tie-bars shall be epoxy coated.
### TYPE OF JOINT | DEPTH OF SAW CUT | DEPTH OF SEALANT
--- | --- | ---
Longitudinal Joint | D/3 | 2” (min.)
D-1 Contraction Joint | D/3 | 2” (min.)
Retrofit Contraction Joint ③ | 1” | Bottom of Saw Cut
Retrofit Pressure Relief Joint ③ | 1” | Bottom of Saw Cut
Transverse Construction Joint | 1” | Bottom of Saw Cut
Longitudinal Construction Joint | 1” | Bottom of Saw Cut

### NOTES:
1. Multiple passes of sealant may be required.
2. Backer rod shall not be installed.
3. For retrofit contraction joint and pressure relief joint details, see Standard Drawing Series E 506-CCPP.

---

D = PCCP Thickness

**INDIANA DEPARTMENT OF TRANSPORTATION**

**SAWED JOINTS AND JOINT SEALANT**

**SEPTEMBER 2020**

**STANDARD DRAWING NO.** E 503-CCPJ-02

---

**DATE**

**DESIGN STANDARDS ENGINEER**

**CHIEF ENGINEER**
Dowel Bars at 1'-0" c/c
(Dowel bar diameter as shown on the plans.)

Sawed Contraction Joint Seal

**LONGITUDINAL SECTION THROUGH PCCP**

**TYPE D-1 CONTRACTION JOINT**

Transverse Construction Joint

D-1 Contraction Joint

Longitudinal Joint

Tie-Bar (typ.)

6" (typ.)

**PLAN**

Lane

Lane

Dowel Bar at 1'-0" (typ.)

**PLAN HORIZONTAL SKEW**

Horizontal Skew ± 1/4"

New PCCP

PCCP Centerline

New PCCP

**ELEVATION VERTICAL TILT**

Face of Saw Cut

Roadway Surface

Vertical Tilt Tolerance ± 1/4"

Dowel Bar Parallel with roadway surface

**INDIANA DEPARTMENT OF TRANSPORTATION**

**D-1 CONTRACTION JOINT DETAILS**

**SEPTEMBER 2020**

**STANDARD DRAWING NO. E 503-CCPJ-03**

**DESIGN STANDARDS ENGINEER**

No. 10200124

**DATE**

05/08/20

**CHIEF ENGINEER**

03/10/20
**SECTION A-A**
(RETROFITTED TIE-BARS)

**SECTION A-A**
(TIE-BARS PLACED IN PLASTIC CONCRETE)

**NOTE:**
1. Diameter of drilled hole (d) shall be in accordance with the chemical anchor system manufacturer’s instructions.

**TIE-BAR SIZES FOR TRANSVERSE CONSTRUCTION JOINT**

<table>
<thead>
<tr>
<th>Pavement Thickness, D</th>
<th>Tie-Bar Size</th>
<th>Min. le (Retrofit)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than 9&quot;</td>
<td>#5</td>
<td>1'-6&quot;</td>
</tr>
<tr>
<td>9&quot; through 12&quot;</td>
<td>#8</td>
<td>1'-8&quot;</td>
</tr>
<tr>
<td>Greater than 12&quot;</td>
<td>#10</td>
<td>2'-0&quot;</td>
</tr>
</tbody>
</table>

**INDIANA DEPARTMENT OF TRANSPORTATION**

**TRANSVERSE CONSTRUCTION JOINT DETAILS**

**SEPTEMBER 2020**

**STANDARD DRAWING NO.** E 503-CCPJ-04
TIE-BAR SIZES FOR LONGITUDINAL JOINT

<table>
<thead>
<tr>
<th>Pavement Thickness, D</th>
<th>Tie-Bar Size</th>
</tr>
</thead>
<tbody>
<tr>
<td>Less than or equal to 9&quot;</td>
<td>#5</td>
</tr>
<tr>
<td>Greater than 9&quot;</td>
<td>#6</td>
</tr>
</tbody>
</table>

NOTE:
1. Diameter of drilled hole (d) shall be in accordance with the chemical anchor system manufacturer's instructions.
2. For retrofitted tie-bar skew and tilt tolerances see 503-CCPJ-04.