CONCRETE TIE TO WOOD

MAXIMUM AUTHORIZED TRACK SPEED

<table>
<thead>
<tr>
<th>TIE TYPE</th>
<th>20-29 MPH</th>
<th>30 TO 49 MPH</th>
<th>50 MPH AND GREATER</th>
</tr>
</thead>
<tbody>
<tr>
<td>&quot;A&quot;</td>
<td>0</td>
<td>10</td>
<td>20</td>
</tr>
<tr>
<td>&quot;B&quot;</td>
<td>10</td>
<td>10</td>
<td>10</td>
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</tbody>
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TIE TYPE REQUIRED

"A" - 7" X 9" X 10'-0" PREPLATED SWITCH TIE UPRR ITEM #502-6817
OR 7" X 9" X 10'-0" SWITCH TIE UPRR ITEM #502-1000
(4) E-CLIPS UPRR ITEM #503-6100

"B" - 7" X 9" X 8'-6" PREPLATED TIE UPRR ITEM #502-6855
OR 7" X 9" X 8'-6" TIE UPRR ITEM #502-7979
(4) E-CLIPS UPRR ITEM #503-6100

NOTES:
1. TRANSITION ZONES ARE REQUIRED ON ALL TRACKS WHERE MAXIMUM AUTHORIZED SPEED IS 20 MPH OR GREATER.

EXCEPTION 1: MAKING TRANSITION FROM WOOD TURNOUTS TO CONVENTIONAL WOOD TRACK IS REQUIRED WHEN TRACK SPEED EXCEEDS 40MPH.

2. TRANSITIONS BETWEEN CONCRETE AND WOOD TIES SHOULD NOT BE MADE WHERE CURVATURE OR OBSTRUCTIONS SUCH AS CROSSINGS EXISTS. INSTEAD, CONCRETE TIES SHOULD BE EXTENDED THROUGH THE OBSTRUCTION OR CURVE BEFORE INSTALLING TRANSITION.

3. SEE PAGES 2 AND 3 FOR MORE DETAILS.
WOOD TIE SPACING = 19 1/2"

(24) 7" x 9" x 10'-0" SWITCH TIES

WOOD TIE SPACING = 19 1/2"

(24) 7" x 9" x 8'-6" TIES

WHERE DIVERGING SPEED IS GREATER THAN 35 MPH ONLY

WOOD TIE SPACING = 19 1/2"

(24) 7" x 9" x 8'-6" TIES

FROG END

WOOD TURNOUT
USE THE SAME TRANSITION FOR CONCRETE TURNOUTS
INSTALLED IN WOOD TIE TRACK OR WOOD TIE TURNOUTS
INSTALLED IN CONCRETE TRACK. (24) 10' WOOD TIES
AHEAD OF THE SWITCH AND (24) 8'-6" TIES BEHIND.

NOTES:
1. SEE PAGES 1 AND 3 FOR NOTES AND MORE DETAILS.
CROSSING DIAMOND

WOOD TIE SPACING = 19 1/2"

(24) 7" X 9" X 10'-0" SWITCH TIES (ALL DIRECTIONS)

NOTES:
1. ADD SOLID CRIB ANCHORS IN TWO CRIBS BETWEEN TIES 10 AND 12 IN ALL DIRECTIONS FROM CROSSING FROG, WHERE EXPANSION JOINTS ARE NOT PRESENT.
2. SEE PAGES 1 AND 2 FOR MORE NOTES AND DETAILS.