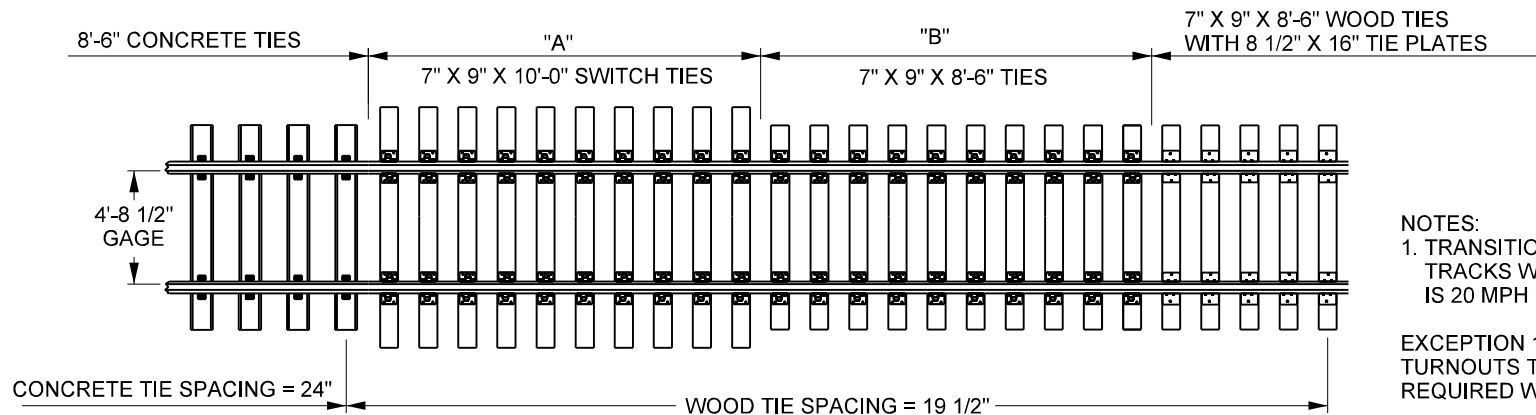


TO CONCRETE TRACK

OPEN DECK BRIDGE

TO WOOD TRACK



CONCRETE TIE TO WOOD

		MAXIMUM AUTHORIZED TRACK SPEED			
		TIE TYPE	20-29 MPH	30 TO 49 MPH	50 MPH AND GREATER
QTY REQ'D	"A"	0	10	20	
	"B"	10	10	10	

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.

UNION PACIFIC RAILROAD ENGINEERING STANDARDS

STANDARD TRANSITION ZONES

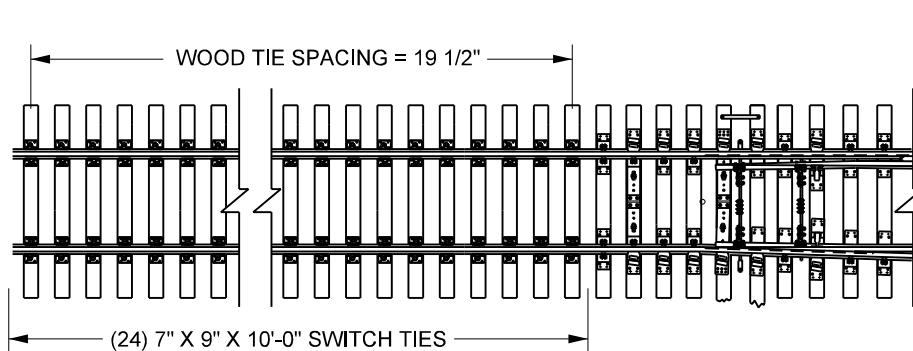


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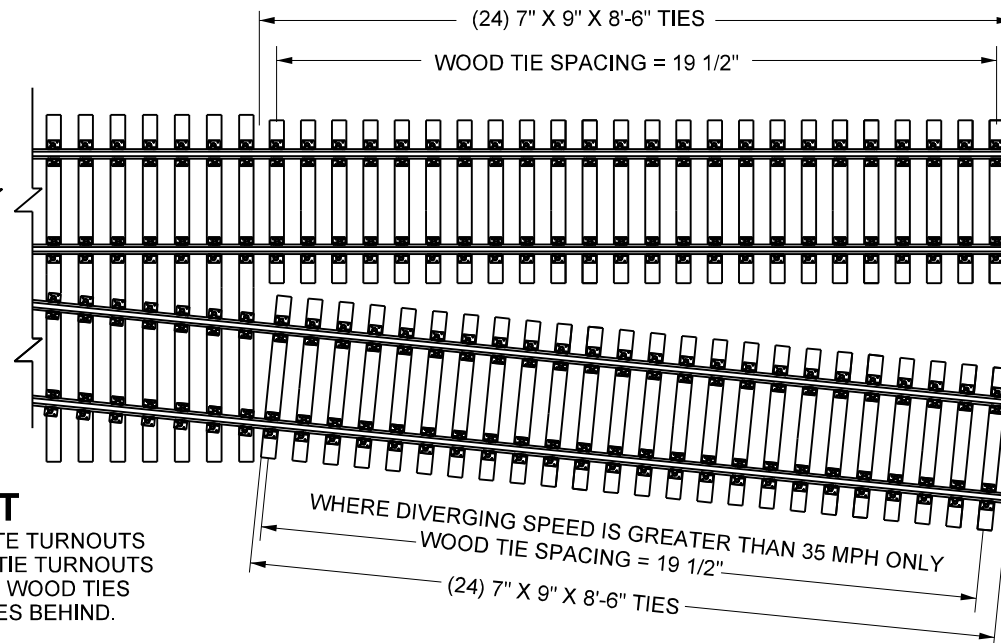
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SWITCH END

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.



FROG END

NOTES:

1. SEE PAGES 1 AND 3 FOR NOTES AND MORE DETAILS.

**UNION PACIFIC RAILROAD
 ENGINEERING STANDARDS**

**STANDARD TRANSITION
 ZONES**

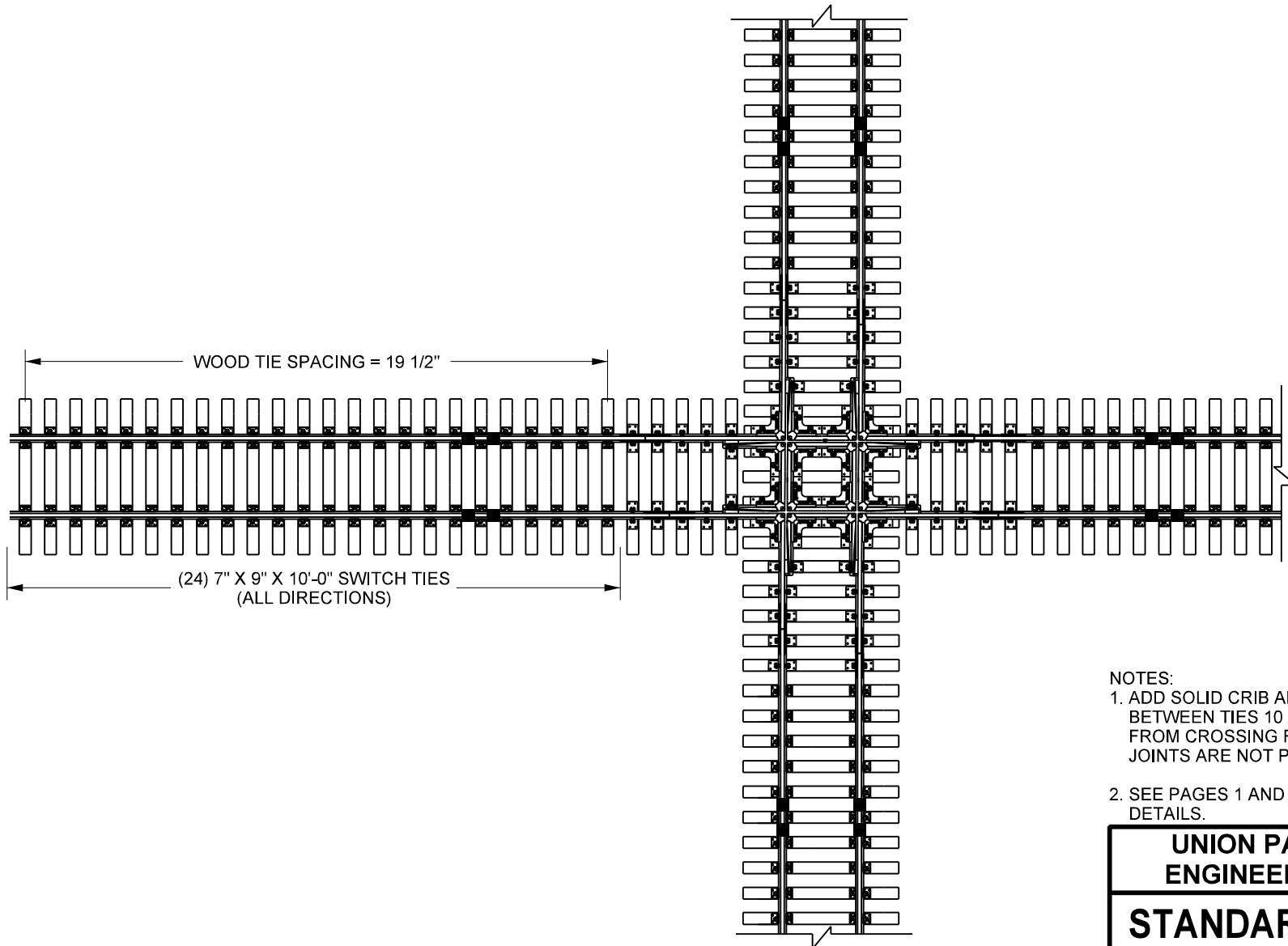


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NOTES:

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.

**UNION PACIFIC RAILROAD
ENGINEERING STANDARDS**

**STANDARD TRANSITION
ZONES**



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CROSSING DIAMOND

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