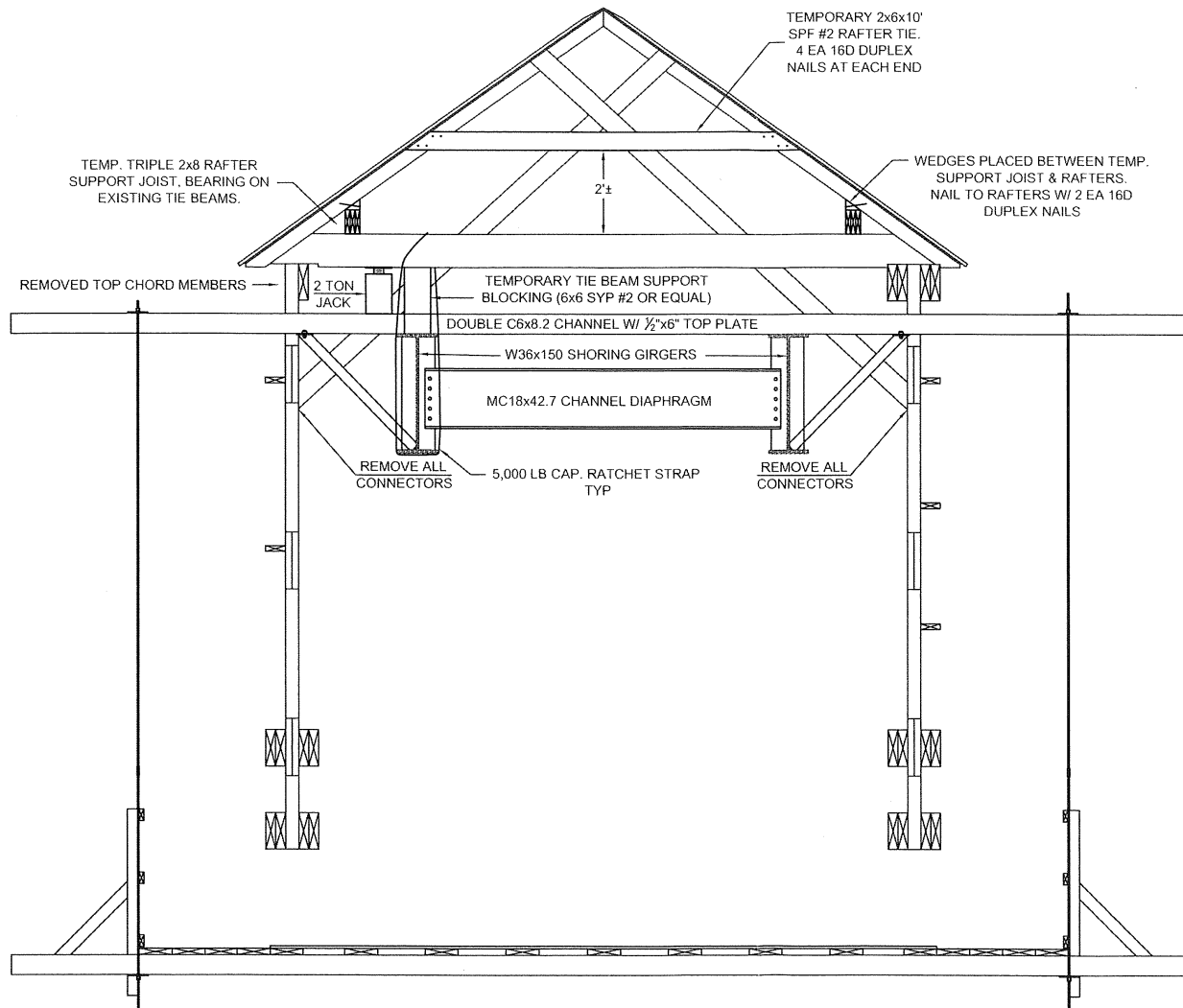


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DESIGNED BY



THIS BRACING PLAN SHALL BE FOLLOWED PRIOR TO REMOVING ANY TOP CHORD ELEMENT.

**NOTES:**

1. VERIFY THAT ALL WIND BRACING BLOCKS AND RESTRAINT LINES ARE PROPERLY INSTALLED.
2. INSTALL TRIPLE 2x8 RAFTER SUPPORT JOISTS ABOVE BOTH TRUSS LINES THROUGHOUT THE LENGTH OF THE BRIDGE.
3. INSTALL SHIMS/WEDGES BETWEEN THE RAFTERS AND THE RAFTER SUPPORT JOISTS.
4. INSTALL THE RAFTER COLLAR TIES.
5. INSTALL RATCHET STRAPS AROUND EACH TIE BEAM/GIRDER INTERSECTION - LEAVE APPROXIMATELY 3" OF SLACK.
6. REMOVE THE BOLTS SECURING THE TIE BEAMS TO THE TOP CHORDS.
7. REMOVE ALL FASTENERS CONNECTING THE KNEE BRACES TO THE LATTICE/POSTS.
8. PLACE JACK AS SHOWN AND RAISE THE TIE BEAM APPROX. 2 INCHES, SUCH THAT THE TOP CHORD WILL CLEAR THE SHOULDER OF THE TIE BEAM. LIMIT DIFFERENTIAL JACKING TO 1/2" BETWEEN ADJACENT TIE BEAMS AND 1/2" ACROSS EACH TIE BEAM.
9. INSTALL BLOCKING BETWEEN THE TIE BEAM AND THE W36x150 SHORING GIRDER AND REMOVE THE JACK.
10. TIGHTEN RATCHET STRAP.
11. PROCEED TO THE NEXT TIE BEAM LOCATION AND REPEAT STEPS 8-10 ABOVE, OR:
12. UPON COMPLETION OF MEMBER REPLACEMENT, VERIFY STRAIGHTNESS OF TOP CHORD AND CORRECT IF NECESSARY (SEE SHEET 8).
13. SLIGHTLY LOOSEN RATCHET STRAP.
14. JACK TIE BEAM TO REMOVE PRESSURE ON BLOCKING, REMOVE BLOCKING AND LOWER THE TIE BEAM DOWN ONTO THE TOP CHORD. LIMIT DIFFERENTIAL JACKING TO 1/2" BETWEEN ADJACENT TIE BEAMS AND 1/2" ACROSS EACH TIE BEAM.
15. RE-INSTALL THE BOLT SECURING THE TIE BEAM TO THE TOP CHORD AND REMOVE THE RATCHET STRAP.
16. PROCEED TO THE NEXT TIE BEAM LOCATION AND REPEAT STEPS 13-15 ABOVE, OR:
17. REMOVE TEMPORARY COLLAR TIES, RAFTER SUPPORT JOISTS AND SHIMS.
18. **DO NOT** RE-INSTALL THE CONNECTORS FROM THE KNEE BRACES TO THE LATTICE/POSTS - THIS WILL BE PERFORMED AFTER THE BRIDGE HAS BEEN STRAIGHTENED AND PLUMBED (SEE SHEET 9).

<b>WORRALL COVERED BRIDGE (BRIDGE #40) WILLIAMS ROAD SHORING, STAGING &amp; REHABILITATION PLAN</b>	
REHABILITATION PLAN (ROOF BRACING)	
SCALE	1" = 3'-0"
DATE	DECEMBER 1, 2009
JOB NUMBER	BHO 1442 (34)
FILE	BR40.dwg
SHEET	7 OF 9
DRAWING NUMBER	ROOF-1

