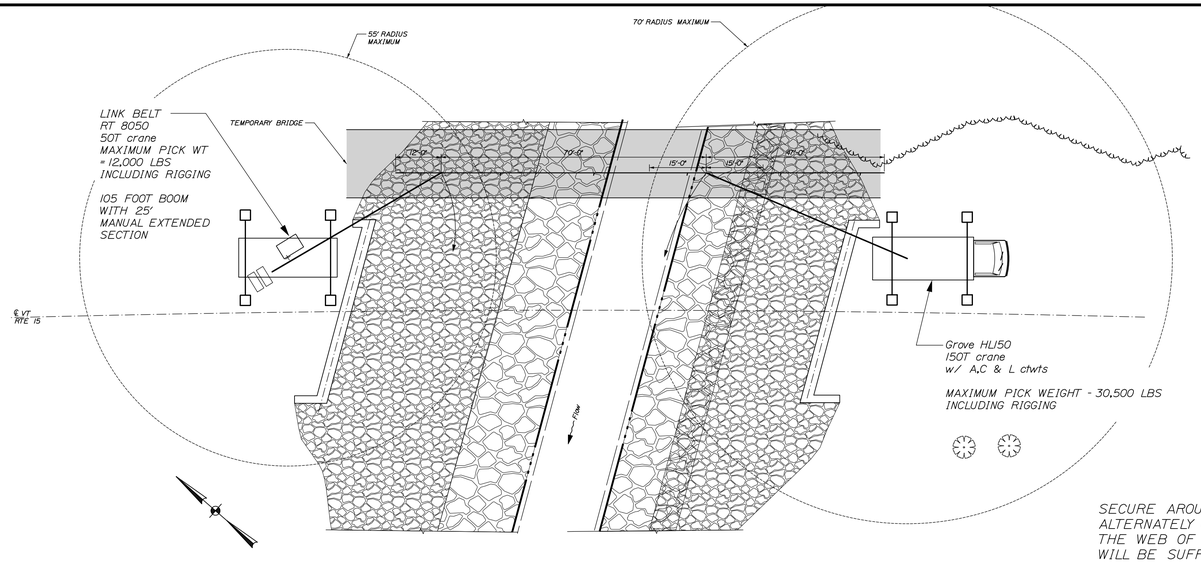


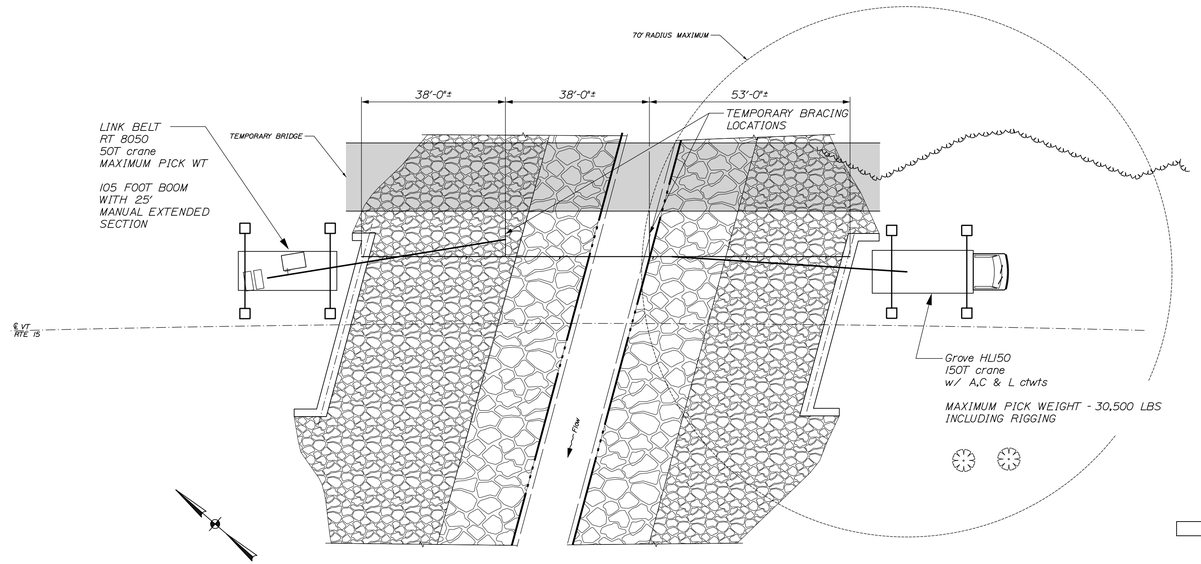
STAGE I - ASSEMBLY

1. SET UP GROVE HL-150 AND LINK BELT 8050 APPROXIMATELY AS SHOWN - MARK MAXIMUM LIFTING RADII ON THE TEMPORARY BRIDGE FOR EASE OF ENSURING DELIVERY LOCATION OF GIRDERS.

2. WITH GIRDER G1 (OVERALL LENGTH = 129 FT OVERALL WEIGHT ~ 34,000 LBS) ON TEMPORARY BRIDGE - RIG THE 8050 TO A 20T BEAM CLAMP AT 12' FROM THE END OF THE GIRDER (AS MEASURED FROM THE ABUTMENT #1 END).

3. RIG THE GROVE HL-150 TO A 30' SPREADER BEAM (HP12x74 SPREADER) WITH 30' SLINGS. SLING ANGLE WILL BE APPROXIMATELY 60 DEGREES FROM HORIZONTAL. RIG EACH END OF THE SPREADER BEAM TO THE GIRDER AT 67' FROM THE END AND 97' FROM THE END (ALL MEASURED FROM THE ABUTMENT #1 END OF THE GIRDER)

4. WITH BOTH CRANES RIGGED PICK GIRDER G1 AND SWING IT INTO POSITION APPROXIMATELY 12' FROM THE FACE OF THE TEMPORARY BRIDGE.

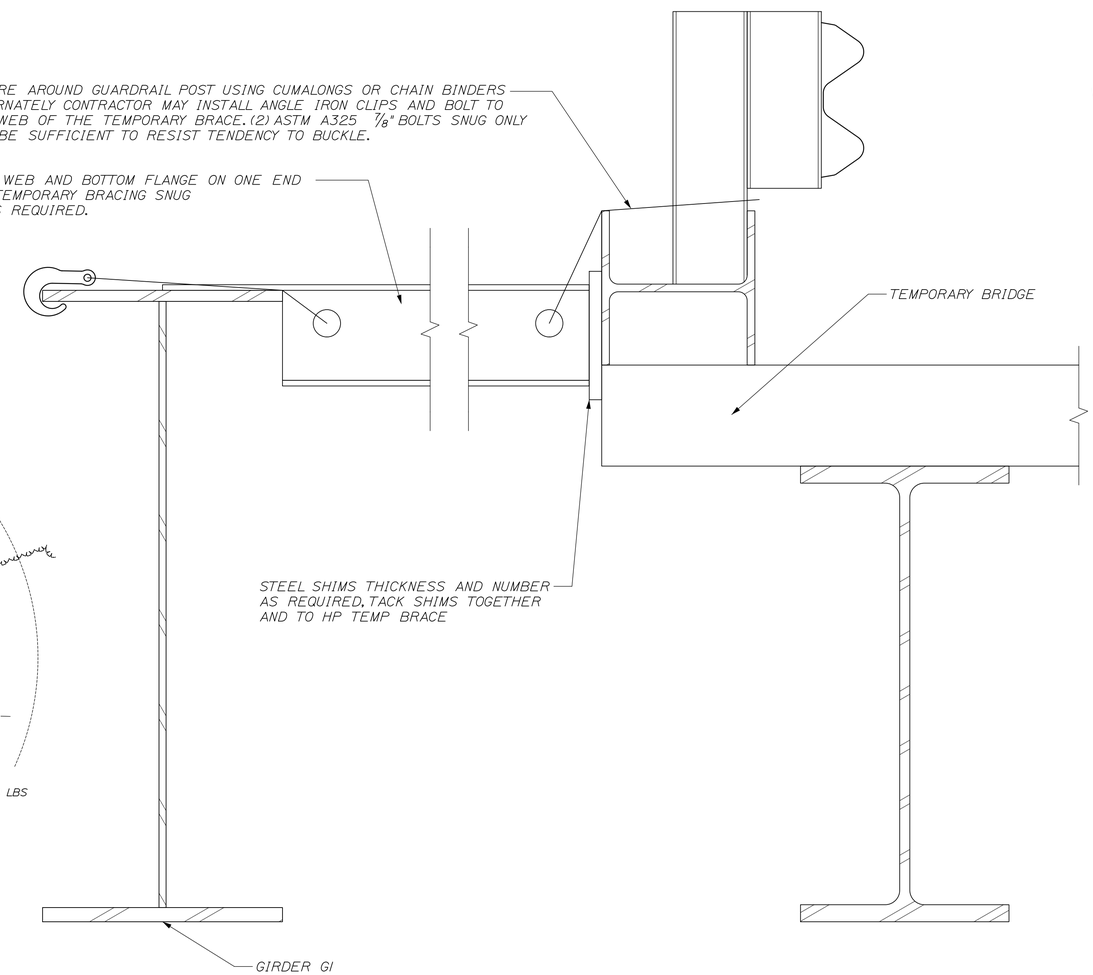


STAGE II - ASSEMBLY

5. LINK BELT 8050 MAY BE RELEASED FROM THE LOAD ONCE IT IS POSITIONED ON THE BEARINGS APPROPRIATELY AT THE ABUTMENT #1 END OF THE GIRDER. GROVE HL-150 SHOULD BE LEFT RIGGED TO THE GIRDER WITH SOME STRAIN UNTIL THE TEMPORARY BRACES ARE INSTALLED.

6. INSTALL HP8X36 BRACES TO THE TOP FLANGE OF THE GIRDER FROM THE TEMPORARY BRIDGE BRIDGE MOUNTED GUARDRAIL ASSEMBLY. INSTALL SQUARE TO GIRDER G1 AND SNUG THE TOP FLANGE TO THE BRACE USING A CHAIN BINDER OR CUMALONG AS APPROPRIATE. A 2T RESTRAINT IS SUFFICIENT TO PREVENT BUCKLING OF THE TOP FLANGE. SEE DETAILS ON TEMPORARY BRACING THIS SHEET.

7. WITH TEMPORARY BRACES SNUG AND INSTALLED RELEASE HL-150



TEMPORARY BRACING SECTION FOR GIRDER G1

USE SOFTENERS WHERE CHAIN OR CABLE CONTACTS TOP FLANGE TYPICAL

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PREPARED FOR:
A.L. ST. ONGE CONTRACTOR, INC
VTAOT PROJ. NUMBER STP-CULV(26)
CEE 89-BR-14

STATE OF VERMONT
ERIC T. CALDERWOOD
NO. 8744
Stamp Date
LICENSED
PROFESSIONAL ENGINEER

P.E. NUMBER
JUL 2014
DATE

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DESIGN-DETAILED	ETC	8/14
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REVISIONS 3		
REVISIONS 4		
FIELD CHANGES		

HYDE PARK-VT RTE 15 OVER CENTERVILLE BROOK

STRUCTURAL STEEL ERECTION PLAN

SHEET NUMBER

1

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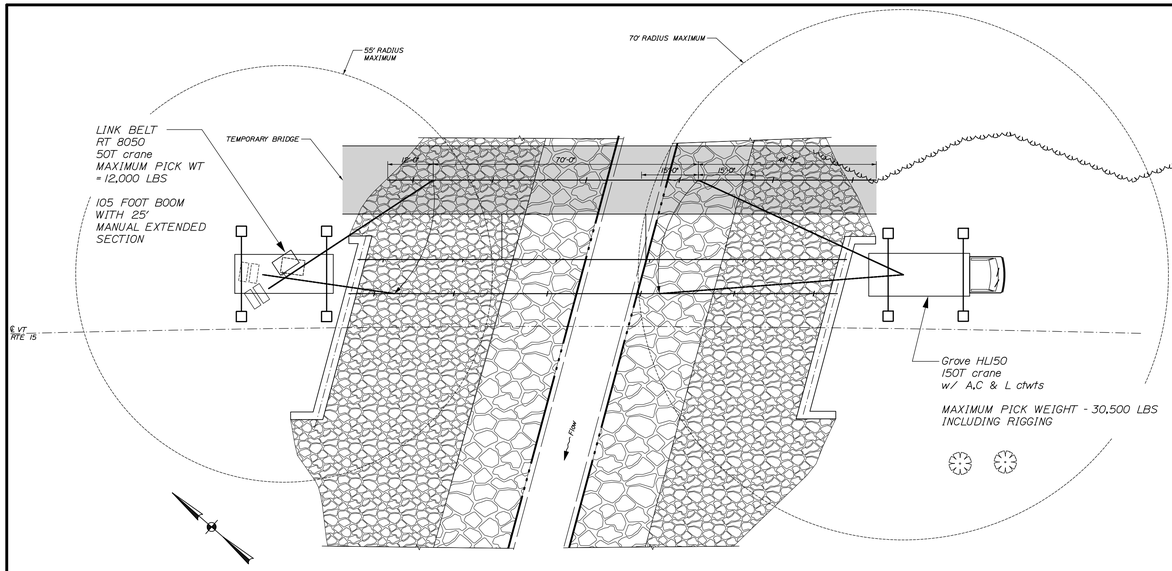
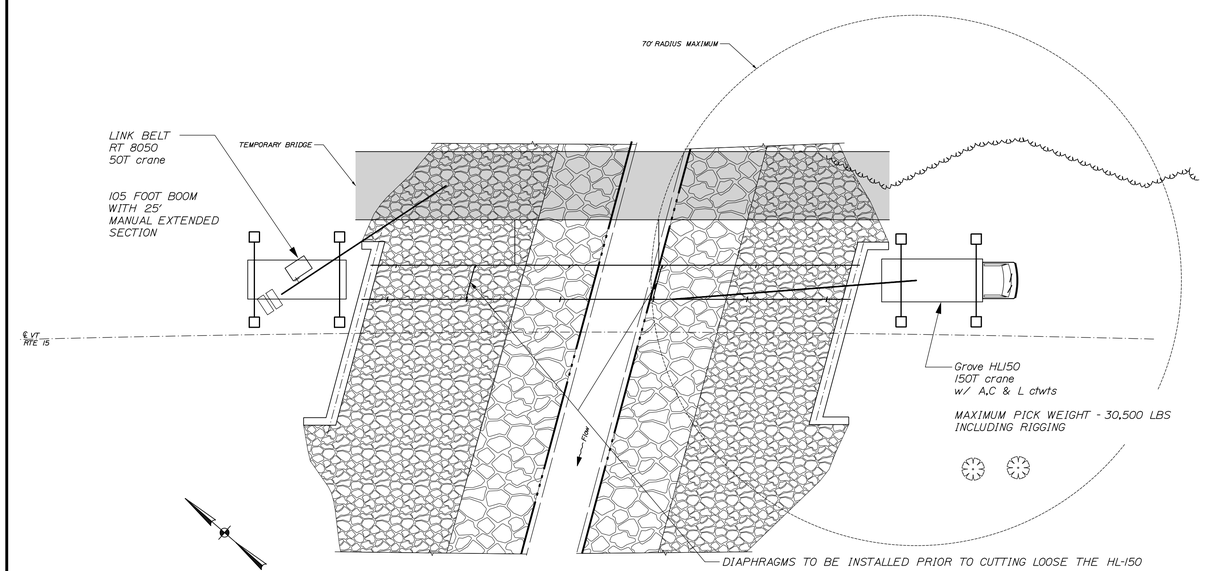


STAGE III - ASSEMBLY

8. RIG 8050 TO BEAM CLAMP AT 12' FROM ABUTMENT #1 END OF GIRDER G2

9. RIG GROVE HL-150 TO 30' SPREADER AS BEFORE - LOCATE BEAM CLAMPS FOR SPREADER BEAM AT 67' FROM ABUTMENT #1 END OF GIRDER AND 97' FROM ABUTMENT #1 END OF GIRDER

10. SWING GIRDER #2 INTO PLACE.



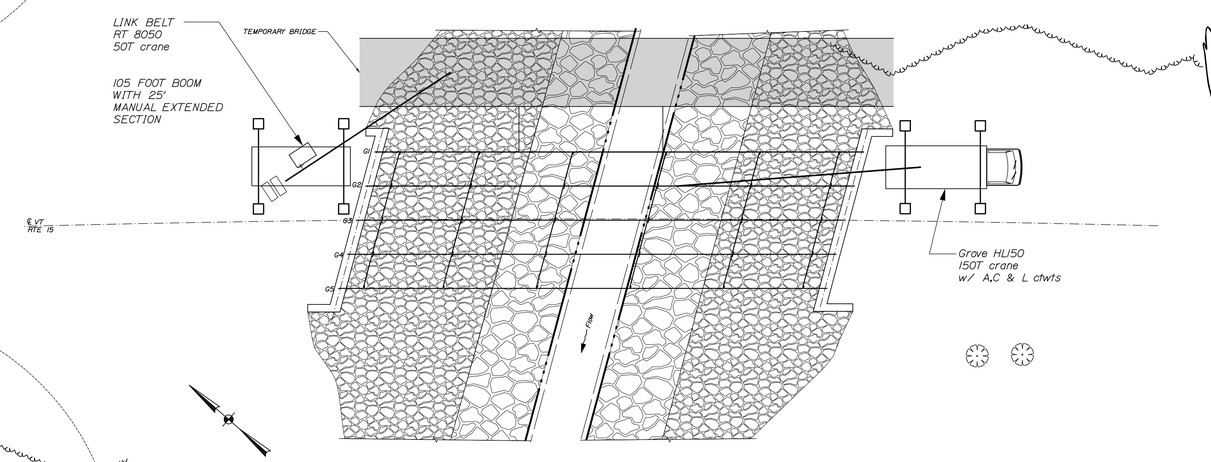
STAGE IV - ASSEMBLY

11. WITH GIRDER #2 ON THE BEARINGS AND STILL SUPPORTED BY THE HL-150 - CUT LOOSE THE 8050T

12. FEED CROSS FRAMES TO THE ASSEMBLY BETWEEN G1 & G2 INSTALL A MINIMUM OF (2) CROSS FRAMES AS SHOWN, INSTALL A MINIMUM OF 1/2 OF THE BOLTS REQUIRED IN EACH CROSS FRAME CONNECTION BETWEEN GIRDERS G1 & G2. BOLTS MAY BE LEFT SNUG TIGHT AT THIS POINT.

13. RELEASE GROVE HL150 FROM GIRDER G2 - TEMPORARY BRACING MAY BE REMOVED FROM GIRDER G1 AT THIS POINT

14. INSTALL REMAINDER OF DIAPHRAGMS BETWEEN G1 & G2 - AGAIN ONLY 1/2 THE BOLTS NEED TO BE INSTALLED IN ANY GIVEN CONNECTION AND ALL BOLTS MAY BE LEFT SNUG ONLY.



STAGE V - ASSEMBLY

15. REPEAT STAGES III THROUGH IV WITH GIRDERS G3 THROUGH G5

16. FINISH INSTALLING ALL CROSS FRAMES

17. DEMOB CRANES, AND INSTALL REMAINING BOLTS.

18. TIGHTEN BOLTS AS PER CONTRACT REQUIREMENTS

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