

CAVENDISH ER BRF 0146 (13)

CONTRACTOR FABRICATED PBU UNITS

Vermont Agency of Transportation

RECEIVED

PBU SUB REV1 - reviewed.pdf

CK'D BY _____ OK'D BY Rob Young

February 19, 2014

RESUBMIT Yes **Rejected**

BY Rob Young DATE 03/06/2014

SHEET1:PBU PLAN
 SHEET2:PBU PLAN UNITS 1&2
 SHEET3:PBU PLAN UNITS 3&4
 SHEET4:PBU TYPICAL DETAILS
 SHEET5:CLOSURE POUR DETAILS
 SHEET6:PBU INSERT-LAYOUT
 SHEET7:PBU-RE-BAR
 SHEET8:QC PROCEDURES/PLAN
 SHEET9:QC PROCEDURES/PLANS
 SHEET10:PBU CASTING PLAN
 SHEET11: CONCRETE MIX DESIGNS
 SHEET12: BRIDGE ANCHORAGE
 (ADDED 2-19-14)

T.Y. LIN INTERNATIONAL

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APPROVED
 APPROVED AS NOTED
 REVISE AND RESUBMIT

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JOSH OLUND
REVIEWER

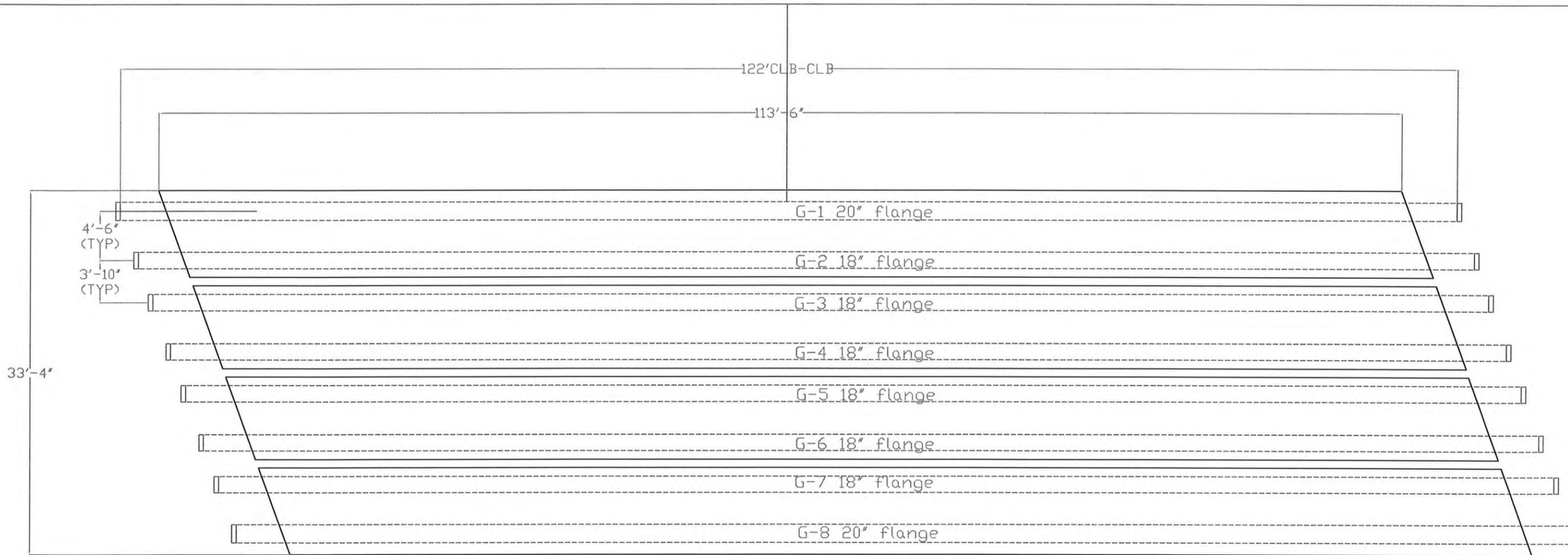
03/05/2014
DATE

The Steel fabrication drawings should be referenced since they are part of the overall PBU item

It should be understood that the Erection plan needs to be submitted and accepted before the structural steel gets to the site.

(REVISION #1 2/17/2014)

COLD RIVER BRIDGES, LLC 10 LANBRO LANE TEL 603-756-9300 WALPOLE, NH FAX 603-756-9303	
CAVENDISH ER BRF 0146(13)	
COVER SHEET/INDEX	SHEET NUMBER
	COVER
DATE: 2-17-14	Scale:



NOTES:
 FINISHES
 TOP-SCREED
 SIDES-FORM WIRE BRUSH&POWER WASH
 BOTTOM-FORM
 ENDS-FORM WIRE BRUSH&POWER WASH

CONCRETE- VERMONT CLASS HPC A f_c' -5000
 psi @ 28 days

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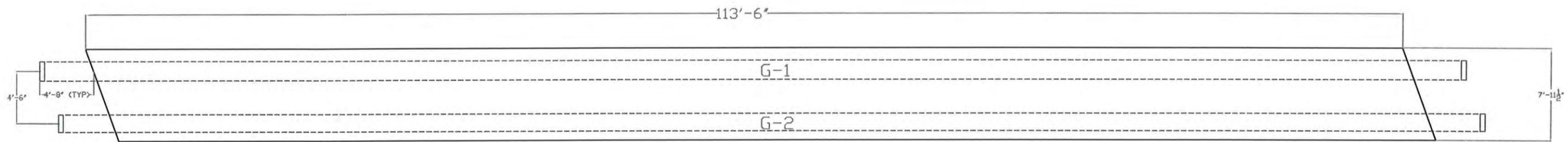
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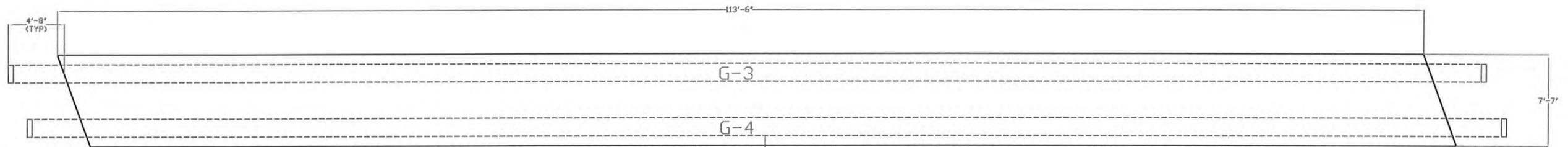
_____ JOSH OLUND 03/05/2014
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PBU PLAN	SHEET NUMBER 1
DATE: 2-17-14	scale:



PBU #1 EXTERIOR UNIT



PBU #2 INTERIOR UNIT

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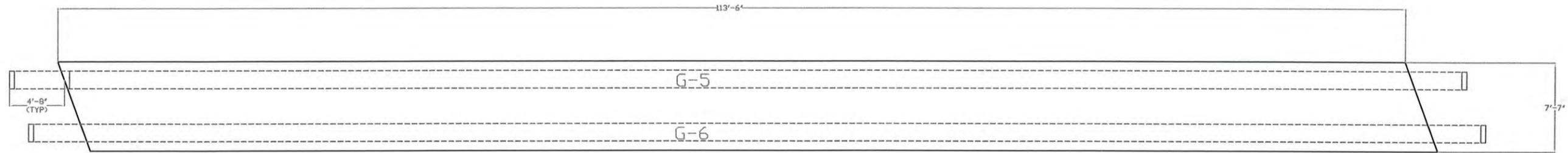
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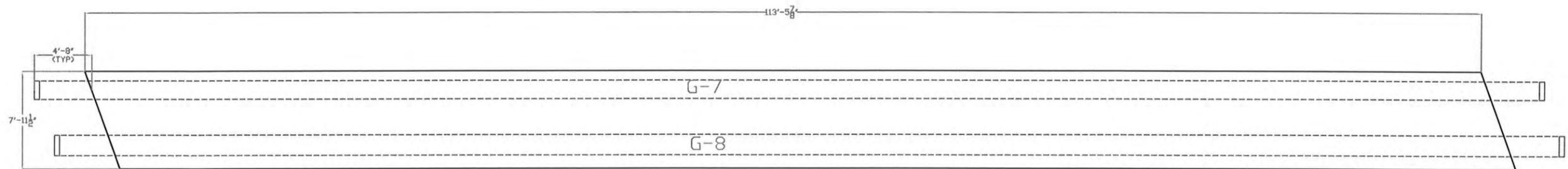
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PBU #1, AND #2	SHEET NUMBER
DATE: 2-17-14	2
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PBU #3 INTERIOR UNIT



PBU #4 EXTERIOR UNIT

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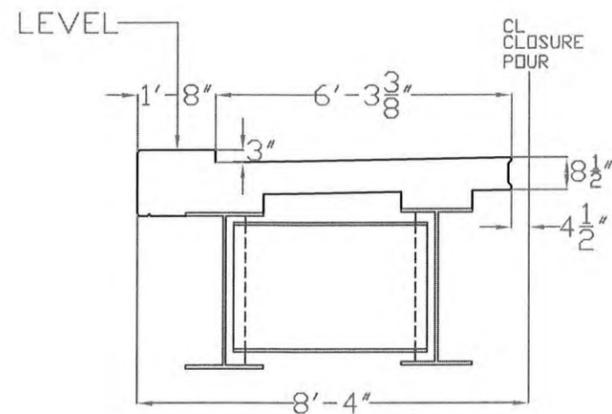
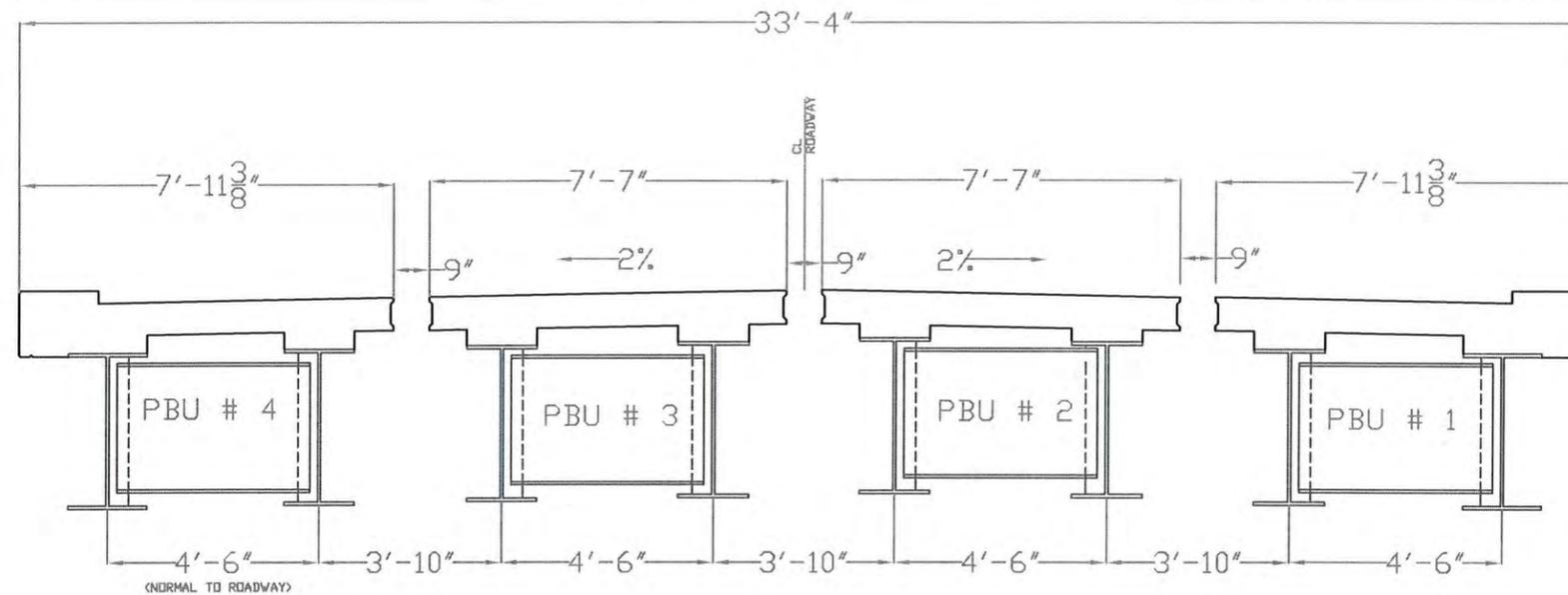
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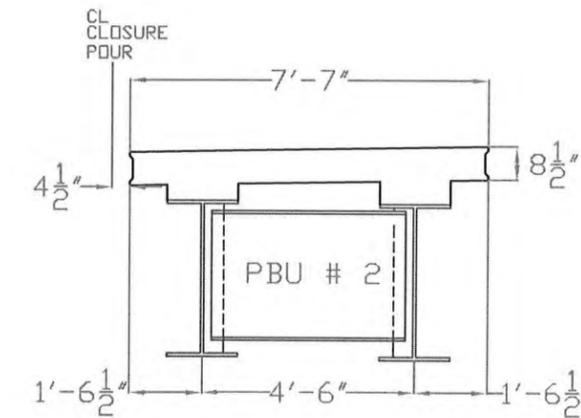
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PBU #3 AND #4	SHEET NUMBER
DATE: 2-17-14	3
scale:	



TYPICAL EXTERIOR PBU



TYPICAL INTERIOR PBU

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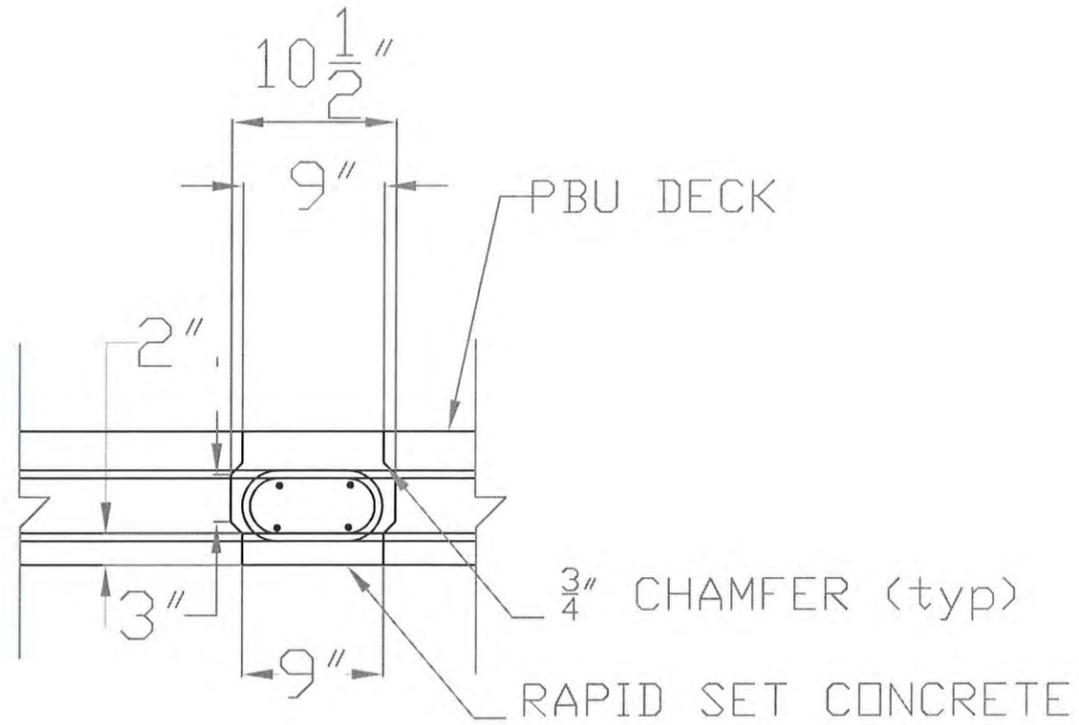
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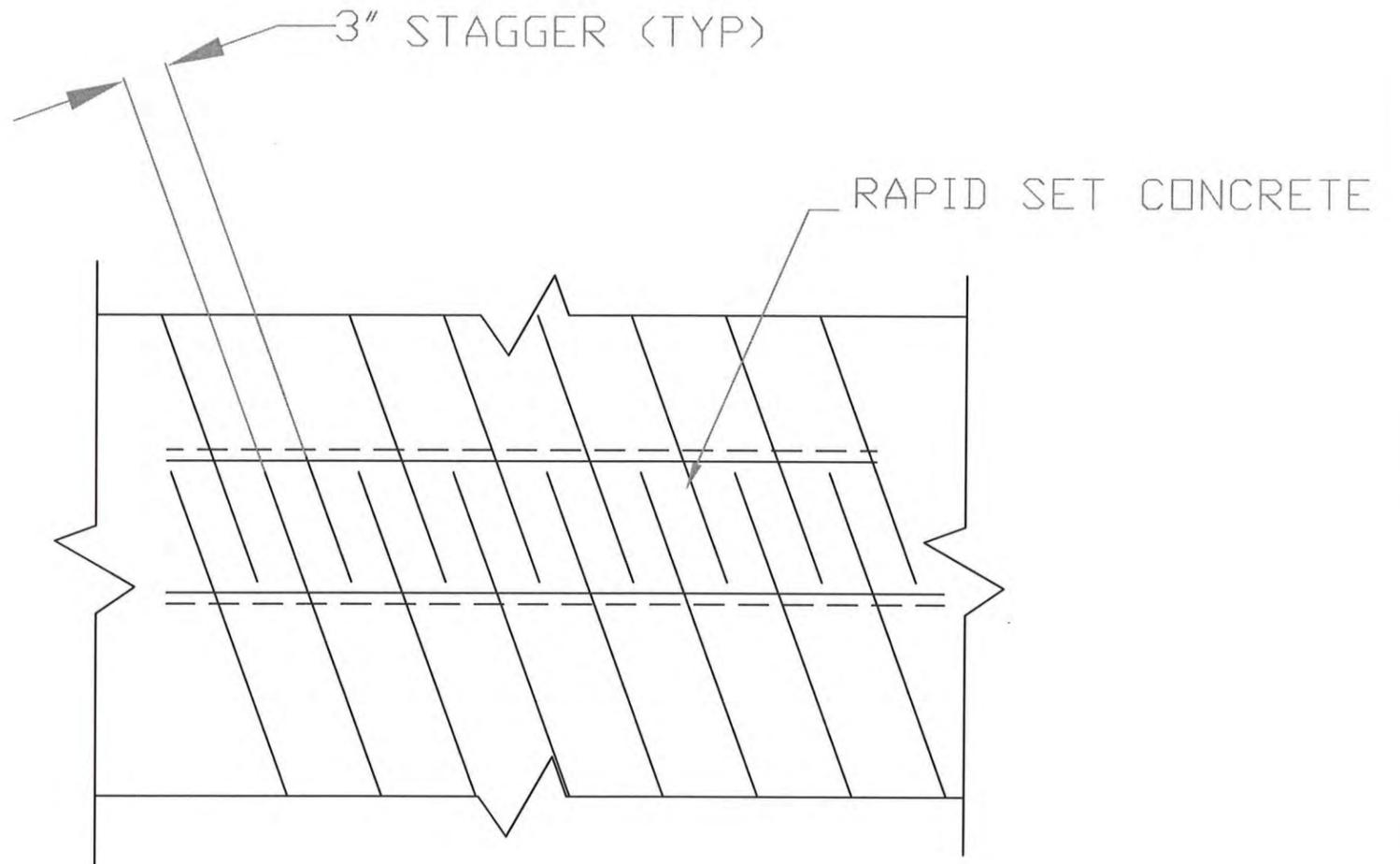
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PBU DETAILS	SHEET NUMBER 4
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CLOSURE POUR SECTION



CLOSURE POUR PLAN

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CLOSURE POUR DETAILS

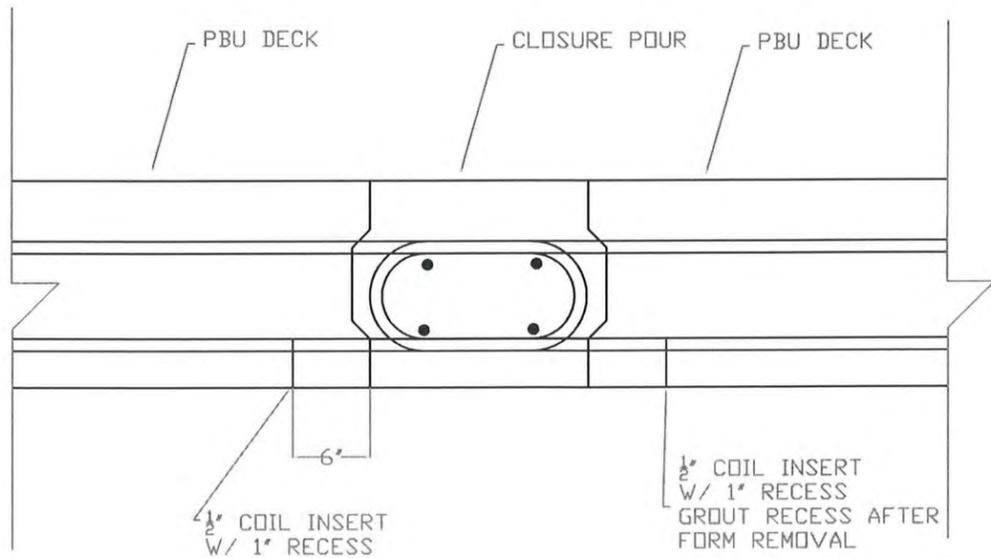
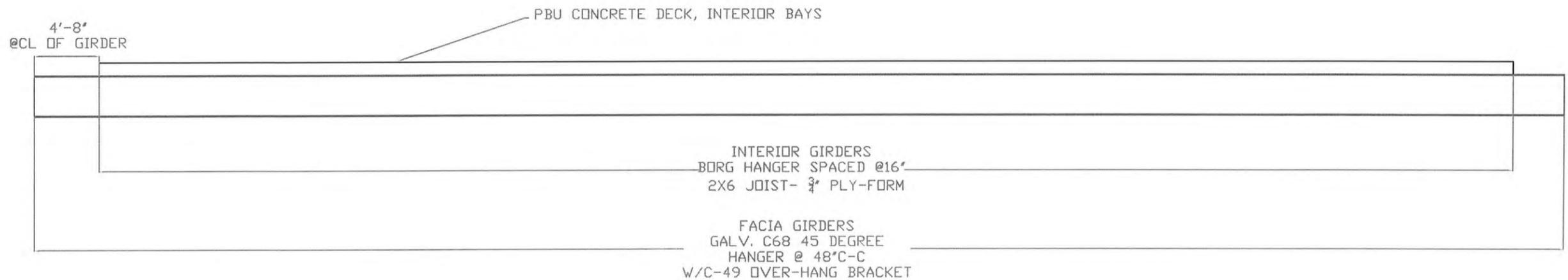
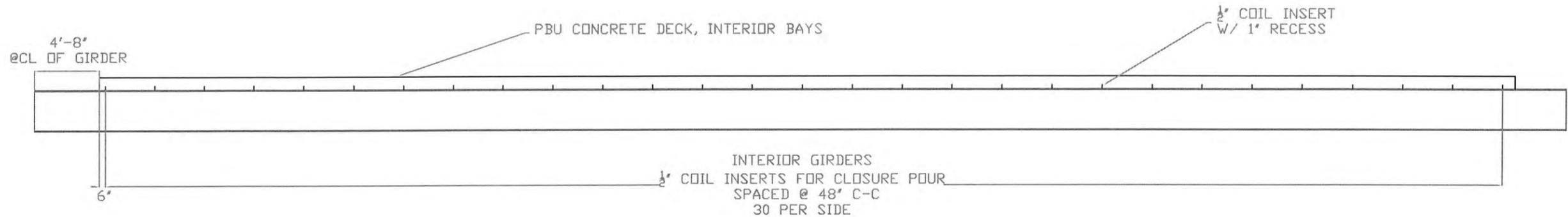
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DATE: 2-17-14

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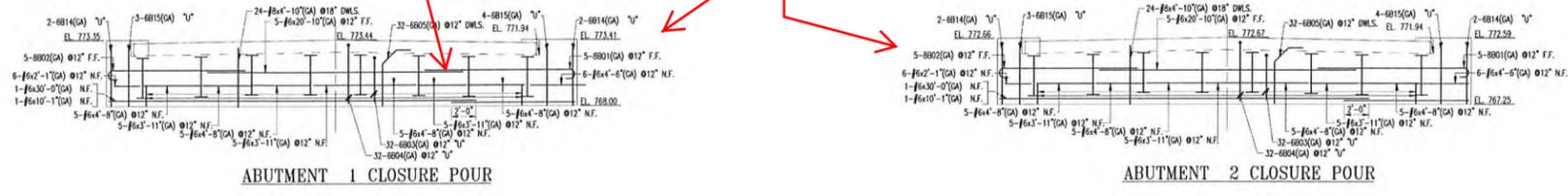
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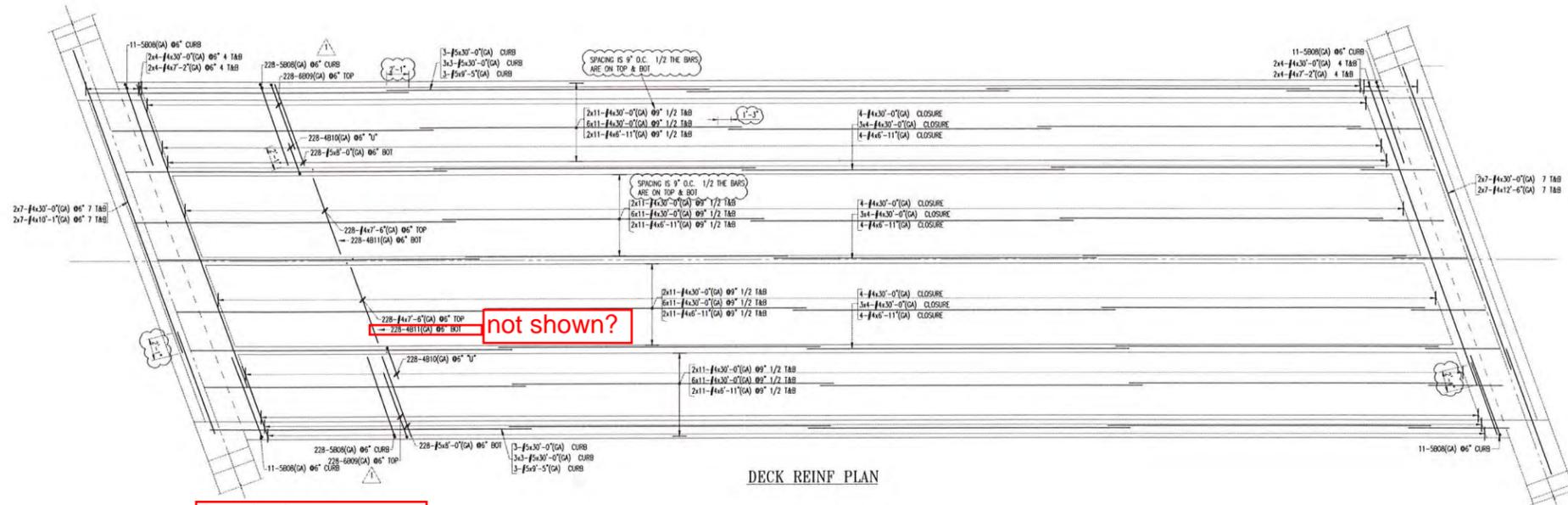
COLD RIVER BRIDGES, LLC 10 LANBRO LANE WALPOLE, NH TEL 603-756-9300 FAX 603-756-9303	
CAVENDISH ER BRF 0146(13)	
PBU CLOSURE POUR COIL INSERT LAY-OUT DATE: 1-6-14	SHEET NUMBER <div style="font-size: 2em; text-align: center;">6</div>
scale:	



3'-1" Lap

these could be on their own sheet. these aren't precast anyways. they are cast in place closure pour

for normal precast shop drawings, each different element has its own sheet and shows better details



not shown?

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these drawings are small. Please increase scale for clarity to ensure proper assembly and ability to perform QC and QA on site

label these bars with their appropriate bar marks to help coordinate layout with plan view above.

SPECIAL SKETCH 4B11 TYPE H10

EXTERIOR UNIT - SECTION

INTERIOR UNIT - SECTION

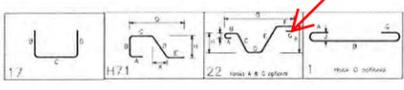
ENG. AND ARCH. PLEASE VERIFY ALL CLOUDED AREAS

(GA) IS DUAL COATED REINF

the drawings are just too small on this sheet. Please increase scale for clarity to ensure proper assembly and ability to perform QC and QA on site

Bar Mark	Qty	Size	Length	Y	X	Y	X	Y	X	Y	X	Y	X
4B12	4	#4	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
4B11	4	#4	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
5B08	5	#5	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
6B11	6	#6	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
7B11	7	#7	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
8B11	8	#8	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
9B11	9	#9	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
10B11	10	#10	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
11B11	11	#11	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
12B11	12	#12	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
13B11	13	#13	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
14B11	14	#14	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
15B11	15	#15	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
16B11	16	#16	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
17B11	17	#17	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
18B11	18	#18	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
19B11	19	#19	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"
20B11	20	#20	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"	15'-0"

A & G have no dimensions listed in table. Label as 0" if not used for clarity



can't read these at 600% magnification

LAP CHART-U.N.O.

#11	
#10	
#9	
#8	
#7	
#6	
#5	
#4	
#3	
#2	
#1	

SIZE: TOP BARS: OTHER BARS: * Top bars are horiz. bars with more than 12" of concrete cast below the bars.

Revisions and Issue Record

No.	Description	Date	By
2	CORRECTIONS/APPROVAL	2-17-14	TRH
1	CORRECTIONS/APPROVAL	1-16-14	TRH
0	APPROVAL	12-16-13	TRH

THIS DRAWING IS NOT TO BE SCALED.

DETAILED AT: CARANAK NEW HAMPSHIRE
 Project: BRIDGE REPLACEMENT #1 CAVENDISH, VT
 Drawing: DECK REINF
 Customer: COLD RIVER BRIDGES
 Engineer: Refer to Release:
 Date: 12-16-13
 Drawn: TRH
 Chkd.: TRH
 JOB No.: 10050769
 Dwg. No.: R02

COLD RIVER BRIDGES, LLC
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CAVENDISH ER BRF 0146(13)

PBU R-BAR SHEET NUMBER 7

DATE: 2/17/14 scale:

QUALITY CONTROL PROCEDURES-PORTABLE BRIDGE UNITS.

I want more detail than this!!

1. CARROLL CONCRETE WILL BE RESPONSIBLE FOR THE CONTRACTOR./SUPPLIER QC TESTING DURING CONCRETE POURS.
2. A PRE-PRODUCTION MEETING SHALL BE HELD BETWEEN THE CONTRACTOR AND RESIDENT ENGINEER BEFORE CONCRETE PLACEMENT.
3. VTRANS WILL RETAIN THEIR RESPONSIBILITIES FOR QUALITY ACCEPTANCE TESTING.
4. FOUR EXTRA CYLINDER SETS PER CONCRETE PLACEMENT SHALL BE TAKEN FOR EARLY STRENGTH BREAKS.
5. ALL INSIDE FORM DIMENSION AND R-BAR SPACING AND CLEARANCES SHALL BE REVIEWED AND DOCUMENTED ON THE PRE-POUR INSPECTION SHEET BY THE CONTRACTOR AND THE RESIDENT ENGINEER BEFORE CASTING IS COMMENCED. ANY DEFICIENCIES SHALL BE CORRECTED TO MEET THE TOLERANCES BELOW.
6. BEFORE FORMS ARE ERECTED THE CONTRACTOR WILL INSPECT ALL FORM-WORK FOR DAMAGE OR RESIDUAL CONCRETE. ANY DEFICIENCY IN THE FORM WORK SHALL BE CORRECTED BEFORE FORM WORK CONTINUES.
7. FORMS SHALL HAVE A GENEROUS COATING OF FORM OIL APPLIED. CAUTION WILL BE TAKEN NOT TO HAVE PONDING OF FORM OIL IN THE BASE OF THE FORM OR ON ANY R-BAR.
8. ALL PRE-CAST WILL BE INSPECTED BY BOTH THE CONTRACTOR AND THE RESIDENT ENGINEER AND DOCUMENTED ON THE POST POUR INSPECTION SHEET.
9. CURE WILL MEET THE REQUIREMENTS OF SECTION 501.17

"t" PORTABLE BRIDGE UNIT DIMENSIONAL TOLERANCES

Should mention something about taking beam profiles and the tolerances associated with setting up the screed.

- +/- 1/4" - REINFORCING PLACEMENT +/- 1/4" COVER AND CLEARANCE 1" BAR SPACING .
- LENGTH (EACH UNIT) +/- 3/4" (Length of adjacent units should not vary by more than 3/4")
- WIDTH +/- 3/8"
- DEVIATION FROM FROM DIAGONALS +/- 3/4" (Horizontal)
- DEVIATION SQUARENESS OR SKEW +/- 3/4"
- HORIZONTAL ALIGNMENT +/- 3/8"

According to the specification (section 73e) this needs to be 1/4" and a procedure needs to be supplied that addresses what action will be taken if this tolerance is not met.

10. FIELD INSTALLATION TOLERANCES

- VERTICAL DEVIATION BETWEEN UNITS PRIOR TO GROUTING- +/- 3/8"
- DEVIATION IN JOINT WIDTH +/- 3/8"

11. EACH PIECE OF PRE-CAST SHALL BE MARKED WITH ITS UNIT NUMBER AND DATE OF CASTING
12. CURING WILL MEET THE REQUIREMENTS OF SUBSECTION 501.17
13. CONCRETE FINISHING.

The QC plan should talk about cure procedures.

what method will be used, how will it be monitored and documented, etc.

PBU FINISH WILL BE A VIBRATORY SCREED FINISH

"a"

How will the screed be supported

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TEL 603-756-9300

CAVENDISH ER BRF 0146(13)

QC PROCEDURES/PLAN	SHEET NUMBER
	8
DATE: 1-8-14	scale:

will this be done before or after units are moved and set? after would be better

REPAIR OF UNITS:

1. Minor defects in the PBU units shall be fixed using an overhead and vertical repair material from the Vermont Agency of Transportation Approved Products list.

2. Cracking .01" or less shall be sealed with a penetrating sealing from the Vermont Agency of Transportation Approved Products list.

Crack widths measuring .01"-.08" shall be filled with an epoxy injected crack filler from the Vermont Agency of Transportation Approved Products List.

Production Site Handling: Units shall not be lifted or moved until design strength has been met.

Pre-Assembly: Cold River Bridges will be casting the PBU Units on site. Each unit will be constructed adjacent to the location of the new bridge. PBU units will be cast simultaneously. As the unit will be cast at the same time with only 19" between bulk-heads pre-assembly will not be required.

Shipping and Handling: PBU units will be constructed on site and laterally moved into place on rollers. The PBU Units will be jacked down onto the final bearing.

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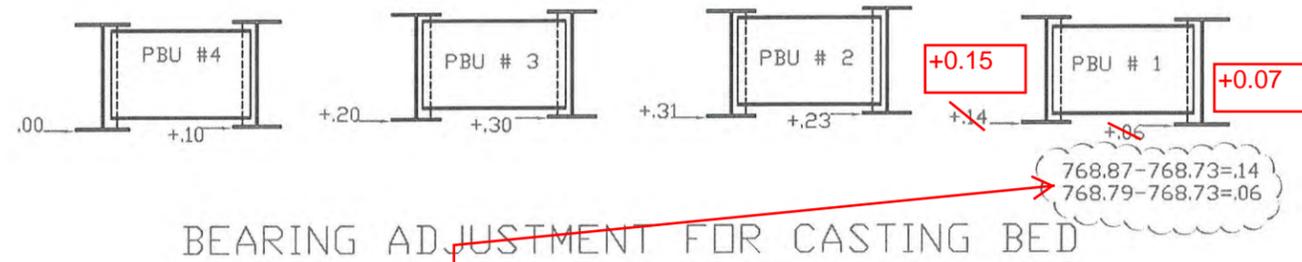
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QC PROCEDURES/PLAN	SHEET NUMBER
	9
DATE: 1-7-14	Scale:



WITH THE GIRDERS SPACED FURTHER APART DURING CONSTRUCTION AS NOTED BELOW, THE BEARING ELEVATIONS NEED TO BE ADJUSTED BEYOND THE DIFFERENCE BETWEEN FINAL ELEVATIONS SHOWN IN THE PLANS (WHICH IS TRUE AS SHOWN FOR PBU'S 2 AND 3 ABOVE)

DIST BETWEEN G1 AND G8 ALONG CL BELOW IS 33.92 FT.

CORRESPONDING DIFFERENCE IN PROFILE IS $33.92 \times \sin(20) = 11.60$ FT

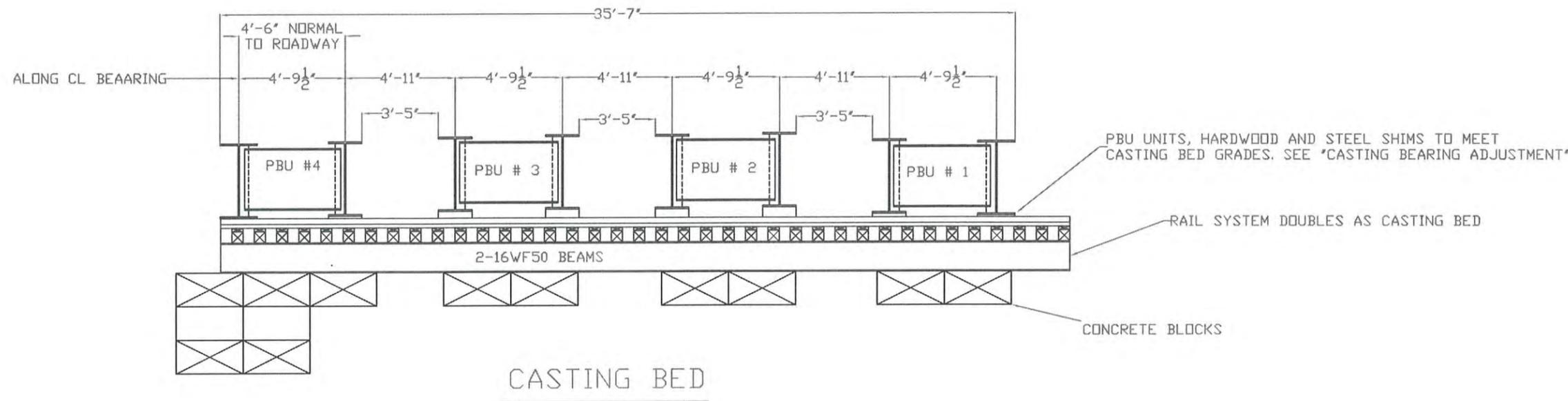
ELEVATION DIFFERENCE BETWEEN G1 AND G8 = $11.60 \text{ FT} \times 0.6149\%$ PROFILE = 0.071 FT.

G7 RELATIVE ELVATION IS 0.08 FT HIGHER THAN G8.

CASTING SEQUENCE:

- 1.SET CONCRETE BLOCKS ON COMPACTED SUB-GRADE
- 2.INSTALL HARDWOOD BLOCKING, DOUBLE BEAMS,AND 12X25 CHANNEL TRACK.
- 3.SET INDIVIDUAL PLATE GIRDERS,SHIM TO GRADE.
- 5.BOLT AND TORQUE INDIVIDUAL PBU SECTIONS.
- 6.PROFILE INDIVIDUAL GIRDERS AND CALCULATE BLOCKING DISTANCE****
- 6.TIE R-BAR, BUILD BULK-HEADS PBU-UNITS 1-4
- 7.SET SCREED, TEST RUN
- 8.CAST PBU DECK SECTIONS 1-4,SIMUTANEOUSLY

****THEORETICAL BOTTOM OF DECK ELEVATIONS ARE NOT INCLUDED IN THE PLANS,PLEASE PROVIDE.PLEASE PROVIDE ELEVATIONS BASED ON FINAL LOCATION.



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THIS REVIEW IS FOR GENERAL CONFORMANCE WITH DESIGN CONCEPT ONLY. ANY DEVIATION FROM THE PLANS OR SPECIFICATIONS NOT CLEARLY NOTED BY THE CONTRACTOR HAS NOT BEEN REVIEWED. REVIEW BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF THE CONTRACTUAL RESPONSIBILITY FOR ANY ERRORS OR DEVIATION FROM THE CONTRACT REQUIREMENTS.

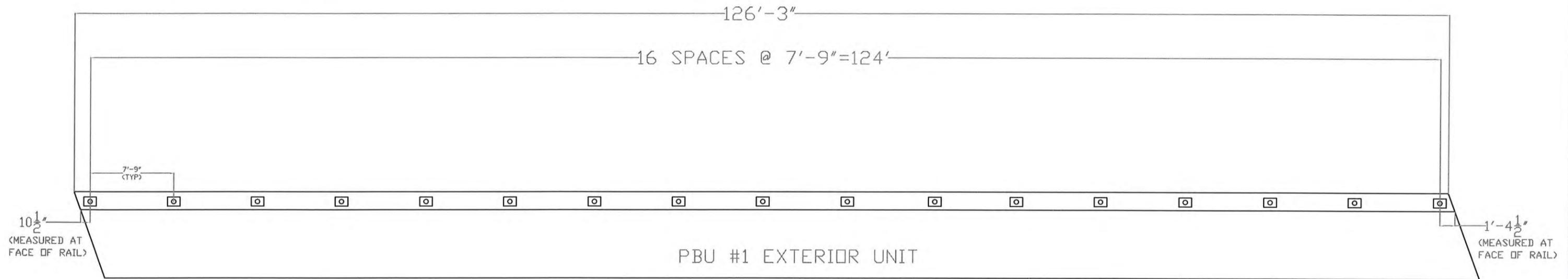
JOSH OLUND
 REVIEWER

03/05/2014
 DATE

COLD RIVER BRIDGES, LLC
 10 LANBRO LANE
 WALPOLE, NH
 TEL 603-756-9300 FAX 603-756-9303

CAVENDISH ER BRF 0146(13)

PBU-CASTING PLAN	SHEET NUMBER
DATE: 2-17-14	10
Scale:	



WEST RAILING PLAN VIEW
(EAST RAIL SIMILAR)

T.Y. LIN INTERNATIONAL

THE STAMPED DOCUMENTS ARE HEREBY:

- ____ APPROVED
- ____ APPROVED AS NOTED
- REVISE AND RESUBMIT

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CAVENDISH ER BRF 0146(13)	
ANCHORAGE LAY-OUT	SHEET NUMBER
DATE: 2-19-14	12
scale:	