

PLYMOUTH ER BRS 0149 (5) CONTRACTOR FABRICATED PRE-CAST

- SHEET1: ABUTMENT #1 PLAN
- SHEET2: ABUTMENT #2 PLAN
- SHEET3: WING WALL FORMING PLAN
- SHEET4: CLOSURE POUR FORMING PLAN
- SHEET5: APPROACH SLAB PLAN
- SHEET6: APPROACH SLAB FORMING PLAN
- SHEET7: APPROACH SLAB INSTALLATION / GROUTING PLAN
- SHEET8: GENERAL NOTES
- SHEET9: QUALITY CONTROL PLAN & PROCEDURES
- SHEET10: NPCA TOLERANCES
- SHEET11: INSPECTION FORMS
- SHEET12: REINFORCING STEEL DRAWINGS

<input type="checkbox"/> No Exception Taken	T-Y-LIN INTERNATIONAL
<input type="checkbox"/> Make Correction as Noted	
<input type="checkbox"/> Submit Specified Item	
<input checked="" type="checkbox"/> Revise and Resubmit as Noted	
<input type="checkbox"/> Rejected	

Checking is for general compliance with the design concept of the project and general compliance with the information given in the contract documents only. Any action shown is not an approval and is subject to the requirements of the plans and specifications. Any action shown on a specific item shall not indicate the checking of an assembly of which the item is a component. Contractor is solely responsible for: dimensions which shall be confirmed and correlated at the job site, fabrication processes, techniques of construction, safety precautions; and coordination of its work with that of all other trades and the satisfactory performance of its work.

Reviewed By: JAW (Josh Auld) Date: 04/30/2013

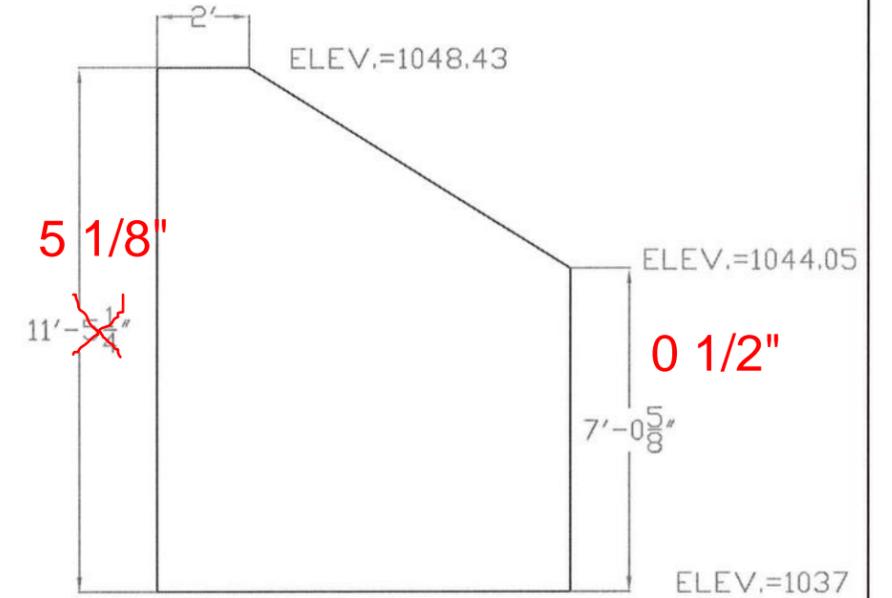
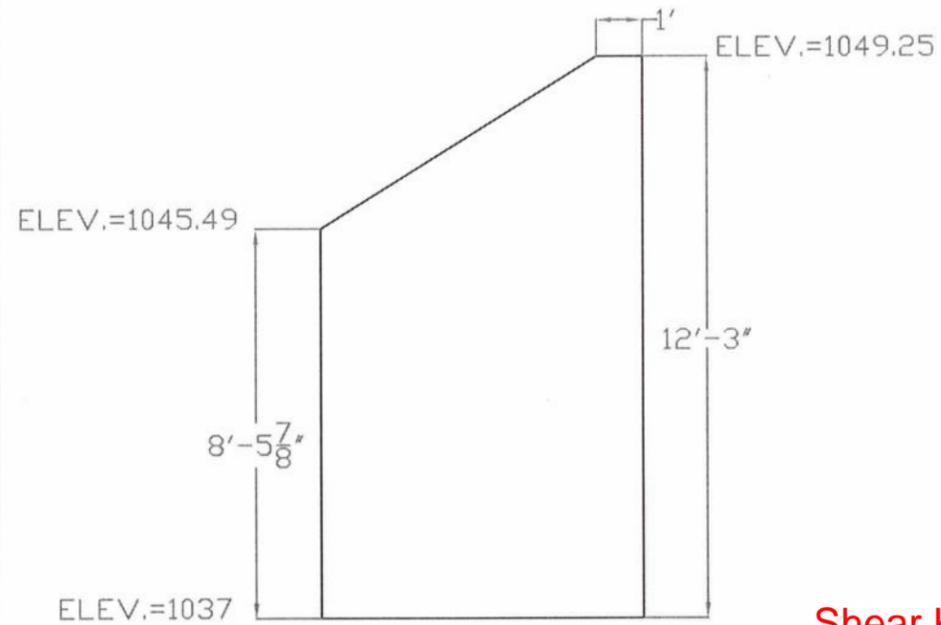
A number of items under the 'Submittals' section of the applicable Special Provision are missing from this submittal and are needed for acceptance.

Vermont Agency of Transportation
RECEIVED

CK'D BY _____ OK'D BY _____
April 25, 2013

RESUBMIT Yes _____ Rejected _____
BY Rob Young DATE 04/30/2013

COLD RIVER BRIDGES, LLC	
10 LANBRO LANE WALPOLE, NH	
TEL 603-756-9300	FAX 603-756-9303
PLYMOUTH ER BRS 0149 (5)	
COVER SHEET/INDEX	SHEET NUMBER
	COVER
DATE: 4-16-13	scale:



Need to identify and show lifting devices, and provide supporting calculations/documentation related to their use

Shear Key (See Structures Detail Sheet SD-501.00) (Typ)

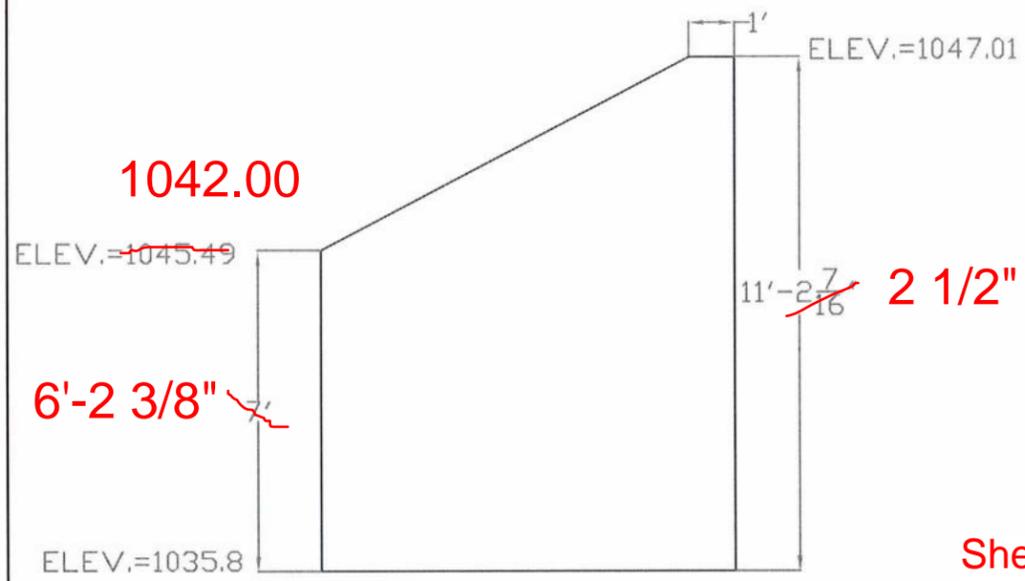
CLOSURE POUR



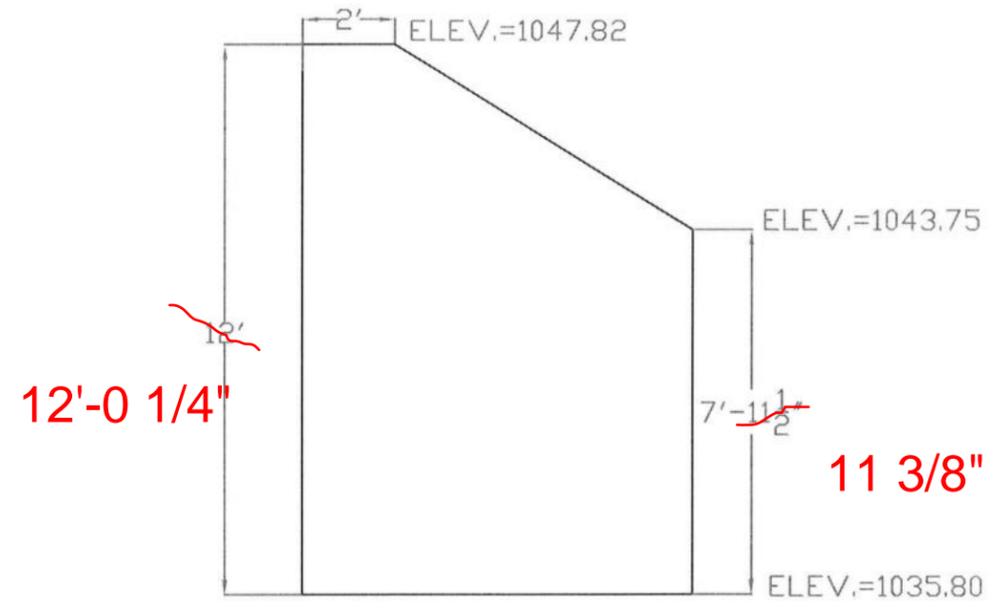
ABUTMENT 1 PLAN & ELEV VIEW

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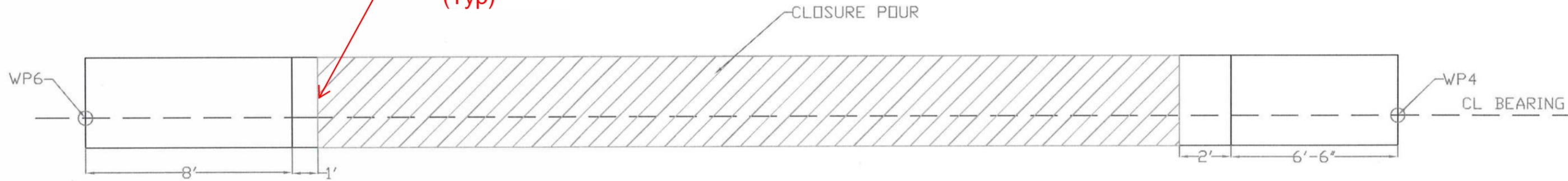
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10 LANBRO LANE WALPOLE, NH	
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PLYMOUTH BR BR 0149 (5)	
ABUTMENT 1 PLAN	SHEET NUMBER 1
DATE: 4-16-13	Scale: 1/4"=1'



Need to identify and show lifting devices, and provide supporting calculations/documentation related to their use



Shear Key (See Structures Detail Sheet SD-501.00) (Typ)



ABUTMENT 2 PLAN&ELEV VIEW

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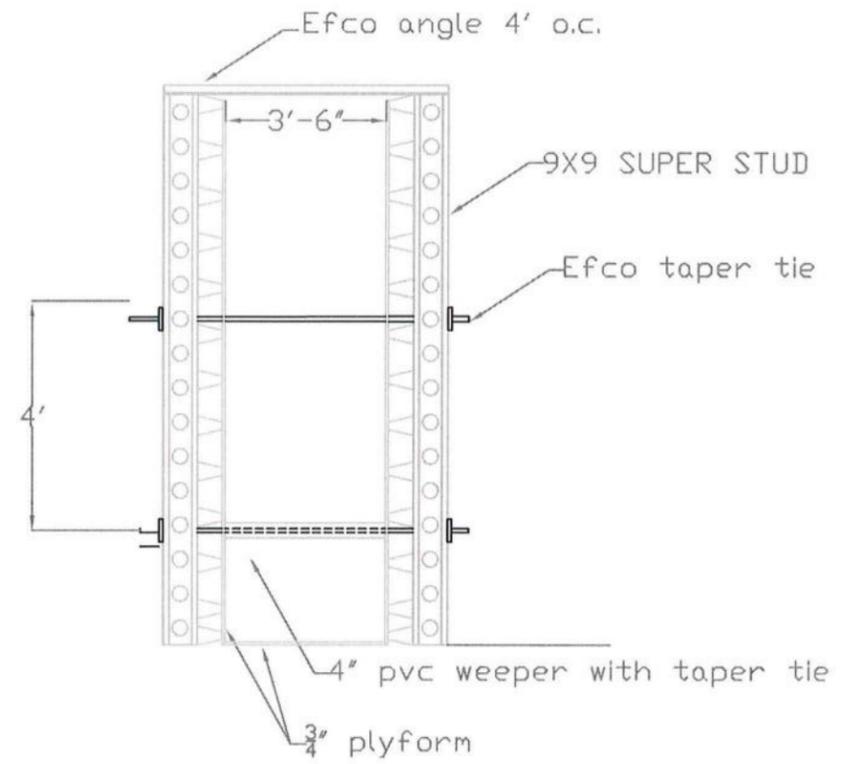
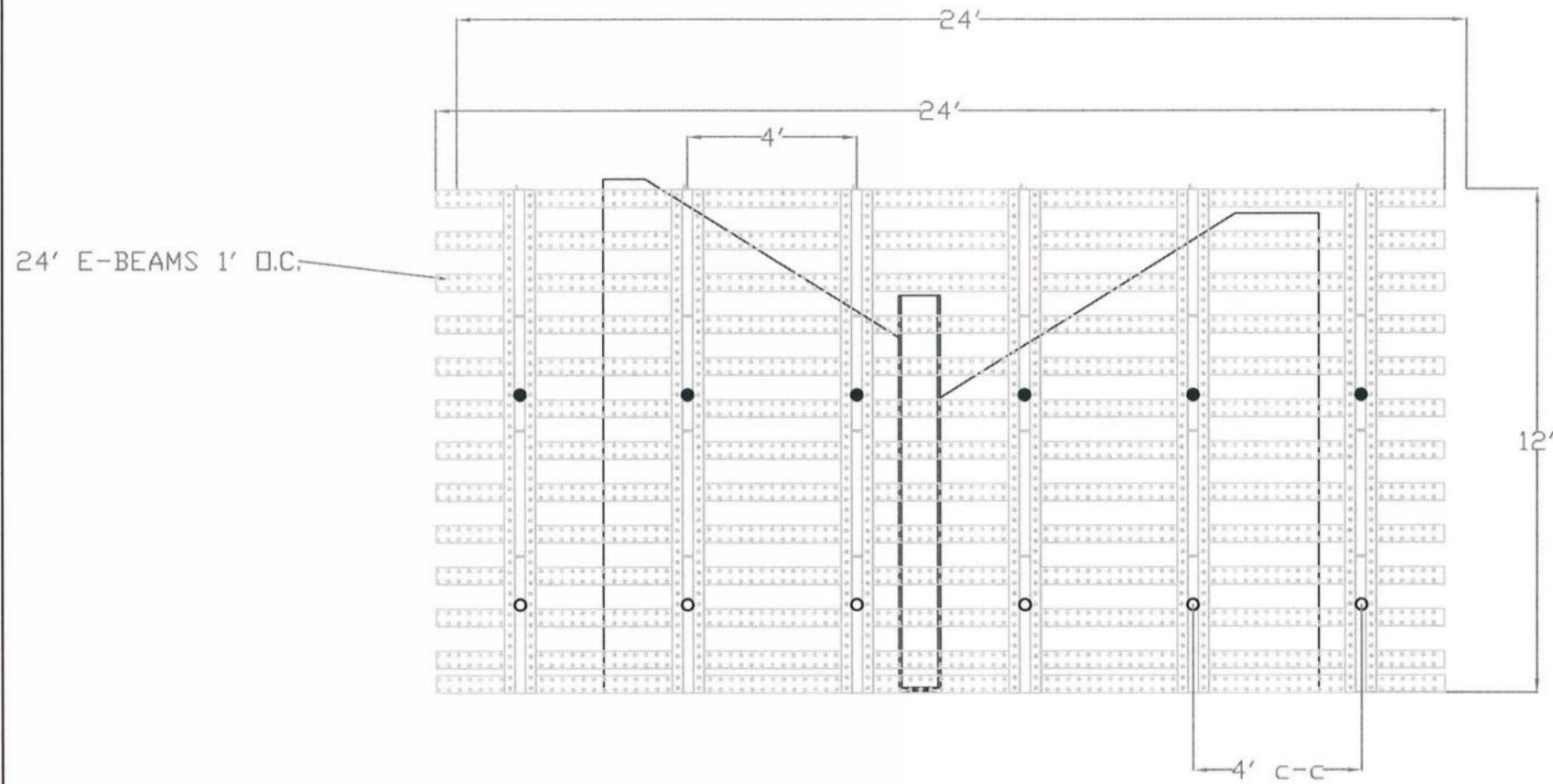
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ABUTMENT 2 PLAN	SHEET NUMBER
DATE: 4-16-13	SCALE: 1/4"=1'
2	



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W.W. FORMING PLAN

SHEET NUMBER

3

DATE: 4-16-13

Scale: 1/4"=1'

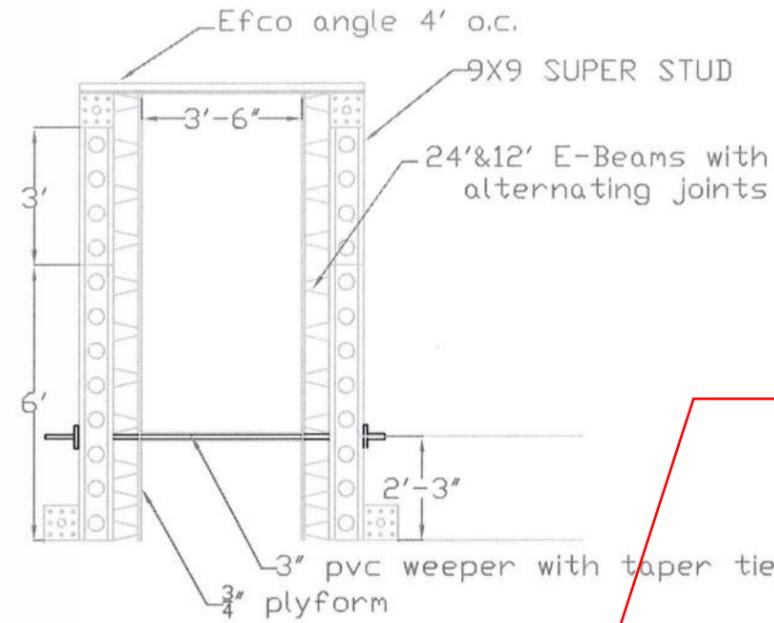
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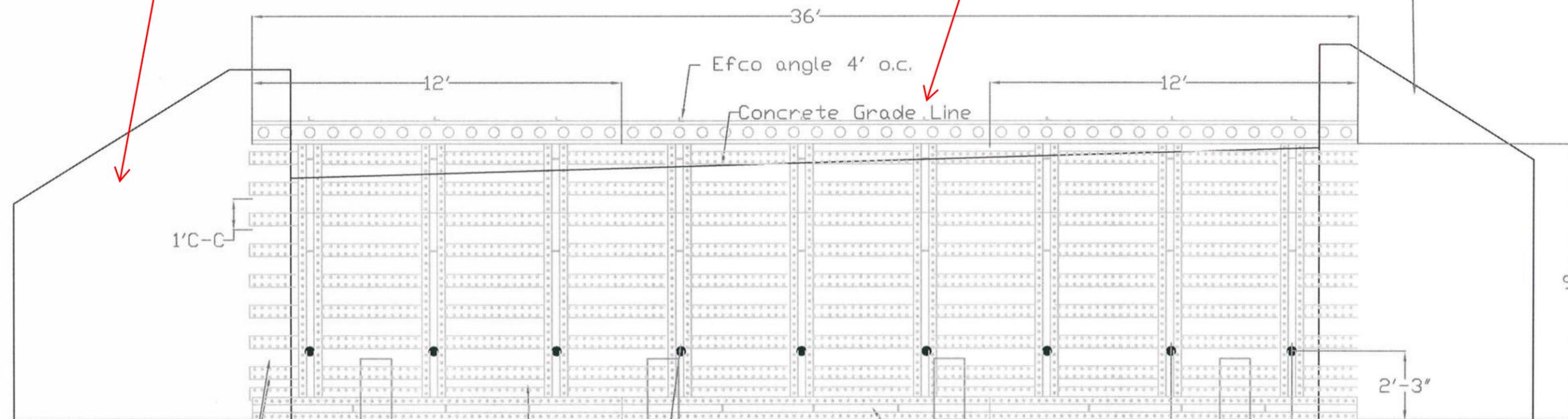
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PROVIDE ELEVATIONS OR DIMENSIONS TO ACHIEVE SLOPE ALONG ABUTMENT AND FRONT-TO-BACK

How are wing elevations, locations, and stability achieved during closure pour casting?



Pre-cast Wing walls See Forming sheet 1

Space E-Beams to clear tie and weeper pipe

24'x12' E-Beams with alternating joints

1.25" taper tie placed through weeper pipes

9x9x12' SUPER STUD

4' O.C.

2'-3"

9'

Draw foms tight against pre-cast wings

CLOSURE POUR

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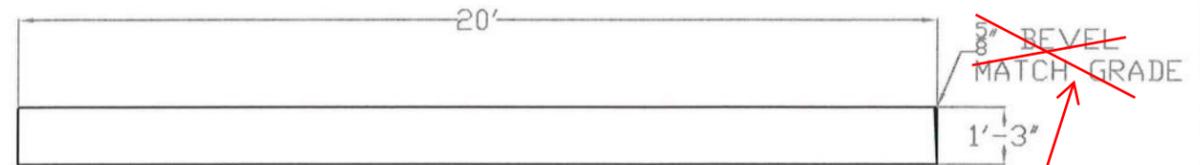
CLOSURE POUR FORM PLAN

SHEET NUMBER

4

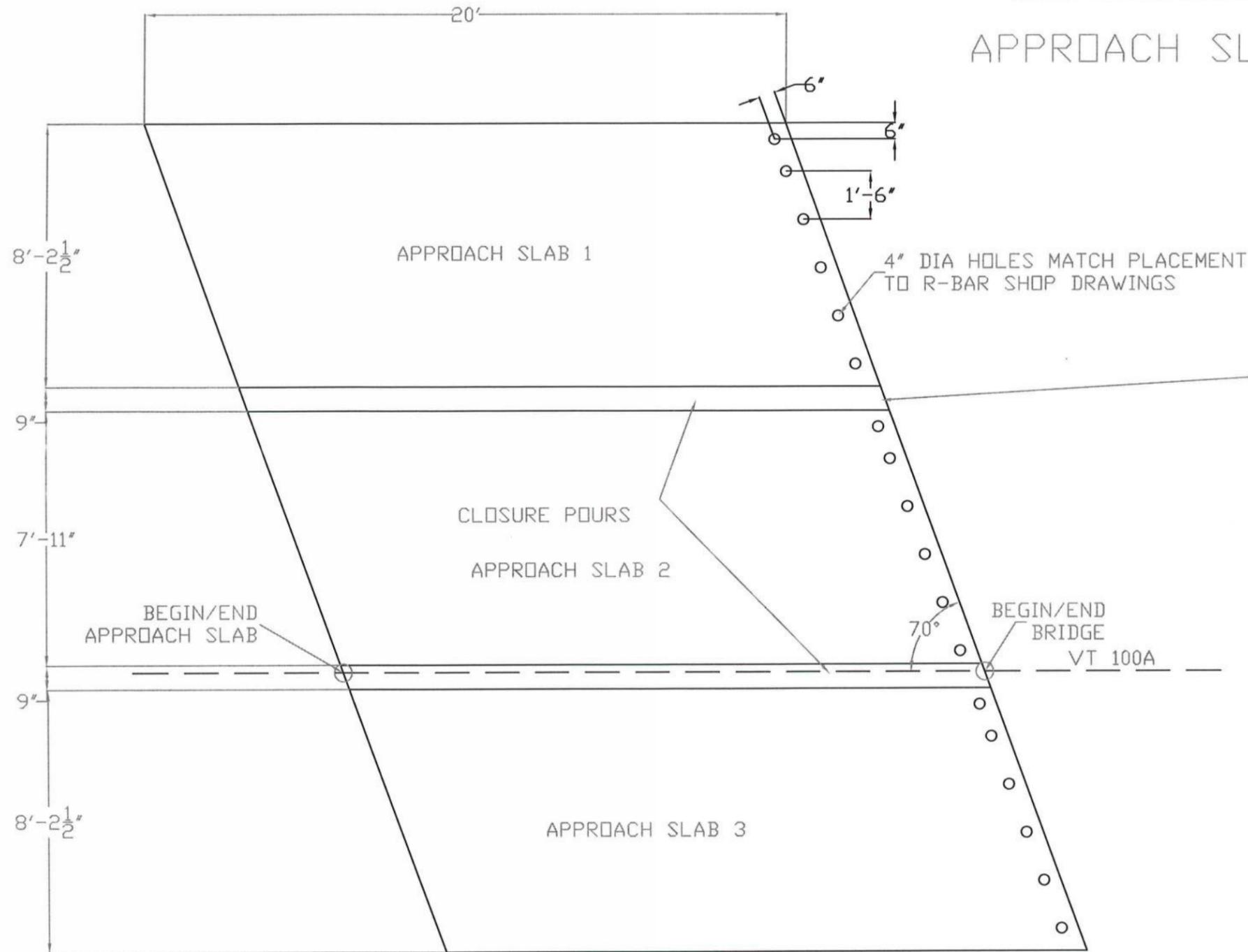
DATE: 4-16-13 scale: 1/4"=1'

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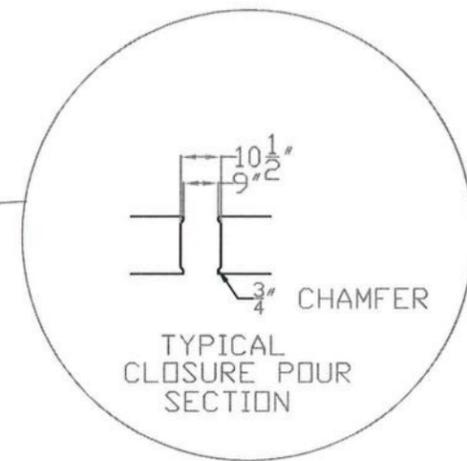


APPROACH SLAB ELEVATION VIEW

Not necessary if slab ends are cast in to abutment, as opposed to being set after closure.



APPROACH SLAB PLAN VIEW



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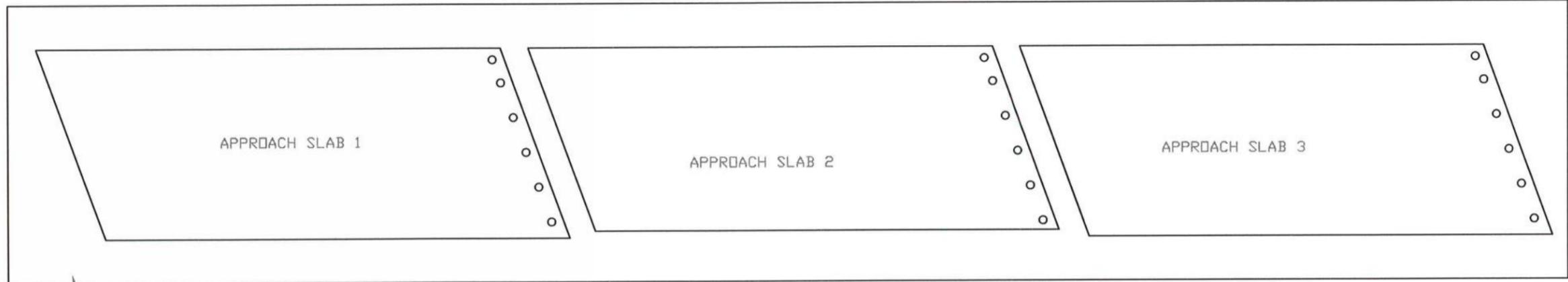
April 25, 2013

RESUBMIT Yes **Rejected**

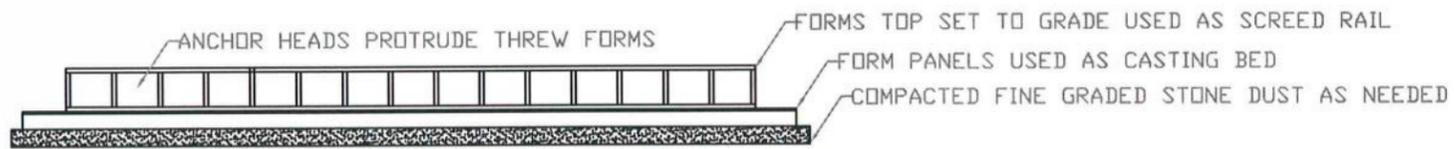
BY Rob Young DATE 04/30/2013

**APPROACH SLABS 4,5,6 ARE THE SAME

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DATE: 4-16-13	scale: 1/4"=1'
APPROACH SLAB PLAN	SHEET NUMBER 5



CASTING BED



ANCHOR HEADS PROTRUDE THREW FORMS

FORMS TOP SET TO GRADE USED AS SCREED RAIL

FORM PANELS USED AS CASTING BED

COMPACTED FINE GRADED STONE DUST AS NEEDED

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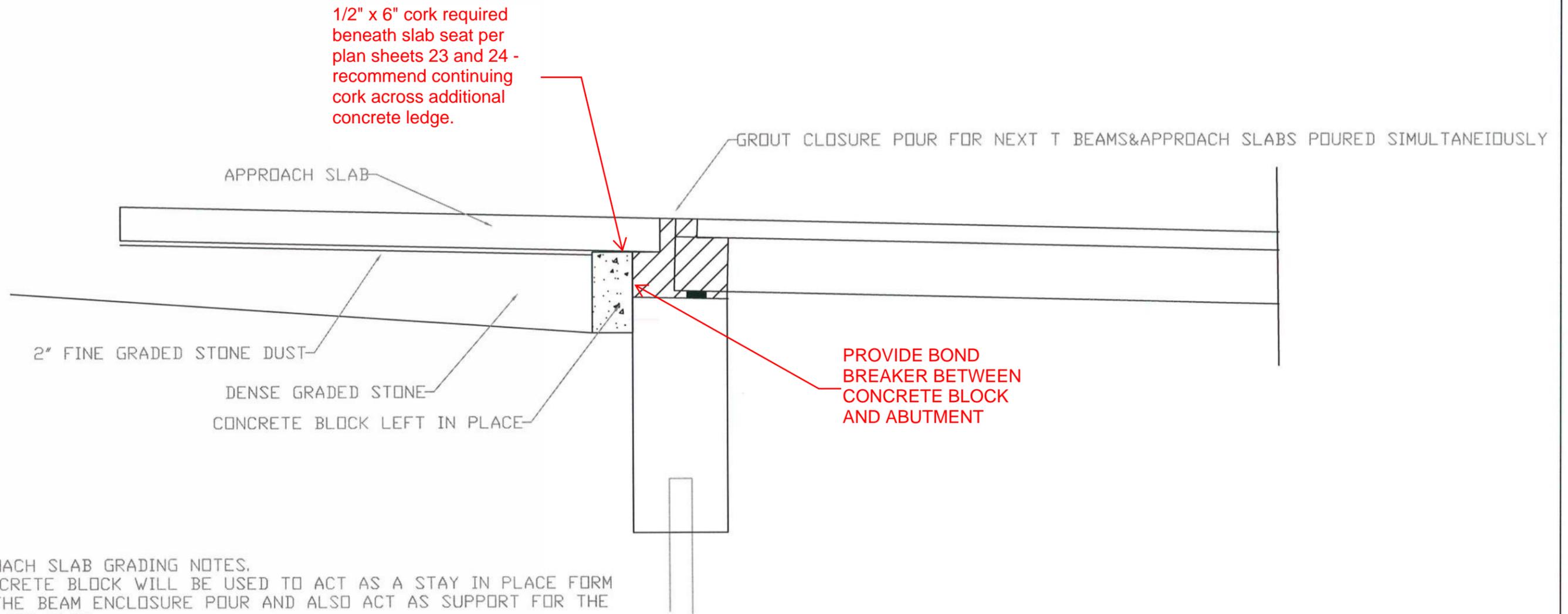
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PLYMOUTH ER BRS 0149 (5)	
APPROACH SLAB FORMING PLAN	SHEET NUMBER 6
DATE: 4-16-13	scale: 3/16"=1'



APPROACH SLAB GRADING NOTES.
 1. CONCRETE BLOCK WILL BE USED TO ACT AS A STAY IN PLACE FORM FOR THE BEAM ENCLOSURE POUR AND ALSO ACT AS SUPPORT FOR THE APPROACH SLAB.
 2. 2" +/- OF STONE DUST WILL BE USED TO GRADE THE SUB BASE SO THE APPROACH SLABS HAS ADEQUATE BEARING ON THE GROUND SURFACE.

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WALPOLE, NH

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PLYMOUTH ER BRS 0149 (5)

APP SLAB INSTALLATION PLAN
AND GROUTING PLAN

SHEET NUMBER

7

DATE: 4-16-13

Scale: 1/4"=1'

CONCRETE NOTES:
CONTRACTOR-FABRICATED PRECAST CONCRETE STRUCTURES.

1. APPROACH SLABS- CONCRETE CLASS HPC B
2. WINGWALLS-CONCRETE CLASS HPC A
3. ABUTMENT CLOSURE POUR CONCRETE CLASS HPC ~~B~~ **A**
4. CLOSURE POUR-940LBS/CY NON SHRINK GROUT MIX
5. ALL CONCRETE ABOVE WILL BE SUPPLIED BY CARROLL CONCRETE INC.
6. ALL CONCRETE MIX DESIGNS HAVE OR WILL BE SUBMITTED BY CARROLL CONCRETE INC.
7. APPROACH SLABS SHALL HAVE A FLOATED FINISH PRODUCED BY A VIBRATORY SCREED. **A TEXTURED BROOM FINISH IS ALSO AVAILABLE AT THE REQUEST OF VTRANS**
8. WINGWALLS AND CLOSURE POUR TOP WILL HAVE A HAND FLOATED FINISHED PRODUCED BY THE USE OF A MAGNESIUM FLOAT.
8. WINGWALLS AND APPROACH SLABS FORM CAN BE REMOVED WHEN THE SPECIFIED CONCRETE HAS REACHED 85% OF ITS DESIGN STRENGTH. WATER CURE WILL CONTINUE BASED ON TABLE 501.17A "CURING CONCRETE COMPONENTS" 7 DAYS OF WATER CURING.
9. ALL EXPOSED CONCRETE EDGES SHALL BE CHAMFERED 3/4"

Preferred for better
adhesion between
asphalt and concrete

CONSTRUCTION SEQUENCE:

1. CAST WINGWALLS FOR ABUTMENT # 1
3. CAST WINGWALLS FOR ABUTMENT #2
4. CAST APPROACH SLABS 1-3 AND 4-6
5. SET ABUTMENT #1 WINGWALLS
6. SET PRE-TIED R-BAR CAGE AND GANGED FORMS AND POUR ABUTMENT 1 CLOSURE
7. SET ABUTMENT #2 WINGWALLS
8. SET PRE-TIED R-BAR CAGE AND GANGED FORMS AND POUR ABUTMENT 2 CLOSURE
9. SET NEXT T-BEAMS, SET PRECAST APPROACH SLABS AND GROUT CLOSURE POURS.

#2

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BY Rob Young DATE 04/30/2013

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PLYMOUTH ER BRS 0149 (5)	
GENERAL NOTES	SHEET NUMBER
DATE: 4-16-13	scale: 8

QUALITY CONTROL PROCEDURES.

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. A MINIMUM OF TWO EXTRA CYLINDERS 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..
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. ANY COATING DAMAGED ON THE R-BAR SHALL BE REPAIRED WITH A 2 PART EPOXY TOUCH UP KIT.
9. ALL PRE-CAST WILL BE INSPECTED BY BOTH THE CONTRACTOR AND THE RESIDENT ENGINEER AND DOCUMENTED ON THE POST POUR INSPECTION SHEET. ANY MINOR REPAIRS AND HONEY COMBING OR RUBBING NECESSARY WILL BE COMPLETED USING A SAND AND PORTLAND SLURRY FROM THE SAME SOURCE AS THE CONCRETE. ANY MAJOR REPAIRS WILL BE REPAIRED WITH A VERTICAL OVERHEAD PATCH FROM THE APPROVED PRODUCTS LIST.
10. CONCRETE TOLERANCES SHALL BE IN ACCORDANCE WITH THE NPCA CONCRETE TOLERANCES.
11. EACH PIECE OF PRE-CAST SHALL BE MARKED WITH ITS UNIT NUMBER AND DATE OF CASTING.

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CONCRETE PRE-CAST PLAN 4-20-13 - 1000000
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 BY Rob Young DATE 04/30/2013

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10 LANBRO LANE WALPOLE, NH	
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PLYMOUTH ER BRS 0149 (5)	
QC PROCEDURES/PLAN	SHEET NUMBER
DATE: 4-16-13	9
Scale:	

PRESTRESSED CONCRETE TOLERANCES

I. Fabrication tolerances in linear elements except piles (Beams, girders, columns, joists and similar members)

A. Length of member
 Per 10 foot of length 1/8 in
 Total not more than 3/4 in

B. Cross-sectional dimensions
 6 in. or less 1/8 in
 Over 6 in. but not over 18 in 3/16 in
 Over 18 in. but not over 36 in 1/4 in
 Over 36 in 3/8 in

C. Lateral alignment (Sweep) of noncambered member of surfaces as measured relative to the centerline of member
 Member length
 40 ft and less 1/4 in
 Over 40 foot but not over 60 ft 3/8 in
 Over 60 foot 1/2 in

D. Camber variation from design chamber, at time of erection
 1/4 in. per 10 foot of length but not more than 1 in

E. Surface irregularities, deviation from a 10 ft straightedge...
 For elements which will not receive topping 1/4 in
 For elements to receive topping 1/2 in
 For elements to be used as concrete guideways support and steering surfaces 1/8 in

II. Fabrication tolerances for piles

A. Length +6 in
 -2 in

B. Cross-sectional dimensions
 Overall 3/8 in
 Wall thickness of hollow sections +1/2 in
 -9 in

C. Lateral alignment of pile surfaces relative to pile centerline
 in length of pile, per 10 foot 1/8 in

D. Location of internal void 3/8 in

E. Pile head
 From the plane perpendicular to the longitudinal axis of pile,
 1/4 in. in 12 in. but not more than 1/2 in

F. Surface irregularities
 Pile head 1/8 in
 Other surfaces, deviation from a 10 foot straightedge 1/4 in

III. Fabrication tolerances in planar elements (Wall and floor panels, tees and similar members)

A. Length and width
 10 foot or less 1/8 in
 Over 10 ft but no over 20 foot +1/8 in
 -3/16 in
 Over 20 ft but not over 40 foot 1/4 in
 Each additional 10 foot increment in excess of 40 foot, 1/16 in
 Difference in length of the two diagonals of a rectangular member the greater of 1/8 in. per 6 foot or diagonal or . 1/2 in

B. Cross-sectional dimensions
 Thickness +1/4 in
 -1/8 in

C. Openings in panels
 Size of opening 1/4 in
 Location referenced to centerline of opening 1/4 in

D. Lateral alignment of embedded items
 Reglets for glazing gaskets 1/8 in
 Bolts 1/4 in
 Flashing reglets 1/4 in
 Flashing reglets at panel edge 1/8 in
 Electrical penetrations and pipe sleeves 1/2 in
 Weld plates 1 in
 Inserts 1/2 in

E. Bowing and warping at time of erection
 Bowing
 1/200 times the panel diagonal dimension (in inches)
 but not more than 1 in.
 Warping
 1/16 in. per foot of distance from the nearest adjacent corner but not more than 1 in.

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 BY Rob Young DATE 04/30/2013

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 WALPOLE, NH TEL 603-756-9300 FAX 603-756-9303

PLYMOUTH ER BRS 0149 (5)

NPCA TOLLERANCES		SHEET NUMBER
		10
DATE: 4-16-13	Scale:	

QMF-005, Rev. 1, 02-07-12 (9.0)
POST-POUR INSPECTION REPORT
 QUALITY CONTROL DEPARTMENT

PRODUCT:							
Job #	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Casting Date							
Inspection Date							
Mark Number							
Stripping Strength							
Top Finish							
Bottom Finish							
Surface Texture							
As Cast Length (ft/in)							
As Cast Width (ft/in)							
As Cast Depth (ft/in)							
Cracks							
Spalls							
Squareness							
Chamfers							
Honeycomb / Grout Leak							
Bowing							
Exposed Reinforcement							
Exposed Chairs							
Plates and Inserts							
Chamfer & Radius Quality							
Openings / Blockouts							
Lifting Devices							

REMARKS: _____

Inspector _____ Date _____ QC Supervisor _____

QMF-003, Rev. 1, 02-07-12 (9.0)
PRE-POUR INSPECTION REPORT
 QUALITY CONTROL DEPARTMENT

PRODUCT:							
Job #	Sun	Mon	Tues	Wed	Thurs	Fri	Sat
Casting Date							
Form Condition							
Form Cleanliness							
Form Joints							
Release Agent/Retarder							
Design Length (ft/in)							
Set-Up Length (ft/in)							
Design Width (ft/in)							
Set-Up Width (ft/in)							
Design Depth (ft/in)							
Set-Up Depth (ft/in)							
Blockouts							
Squareness							
End and Edge Details							
Reinforcing Steel							
Size of Reinforcing							
Spacing of Reinforcing							
Corrosion							
Reinf. Cleanliness							
Plates and Inserts							
Lifting Devices							
Top Finish (wet)							

* All applicable boxes should have a S=Satisfactory or D=Deficiency

REMARKS: _____

QC Supervisor _____ Date _____ Inspector _____

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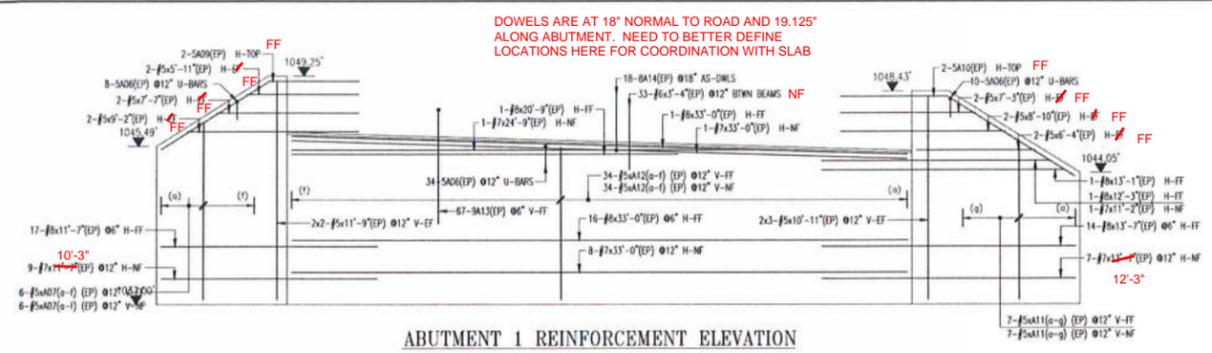
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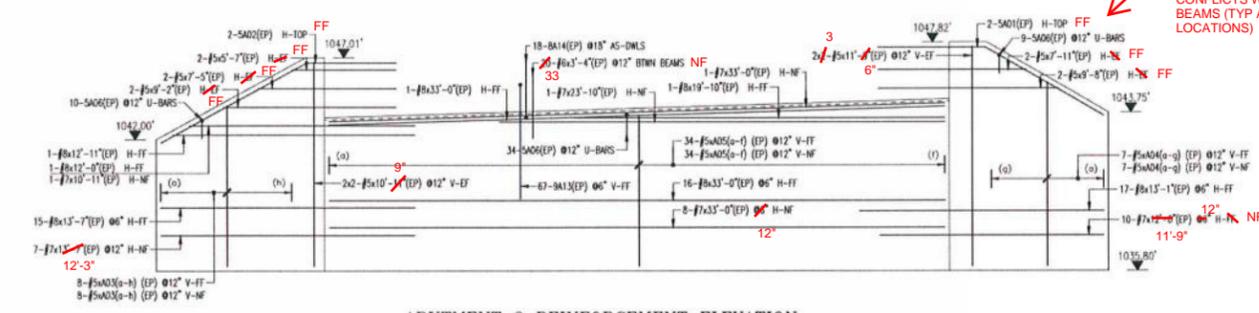
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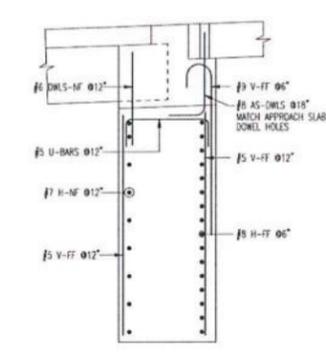
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PLYMOUTH BR BR 0149 (5)	
INSPECTION FORMS	SHEET NUMBER
DATE: 4-16-13	scale: _____
11	



ABUTMENT 1 REINFORCEMENT ELEVATION

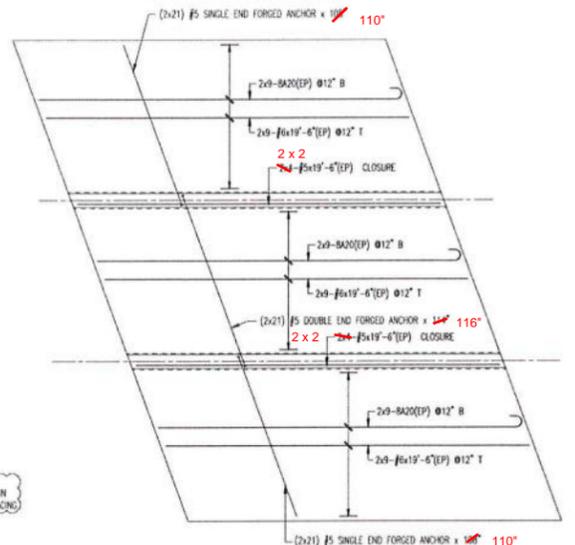


ABUTMENT 2 REINFORCEMENT ELEVATION

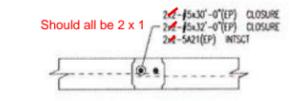


TYPICAL ABUTMENT SECTION
ABUTMENT "1" AS SHOWN
ABUTMENT "2" OPP. HAND

SEE CONTRACT LIST AND SECTION FOR CLOSURE POUR AND TRANSITION BARBERS REINFORCEMENT AND PLACING



ABUTMENT 2 APPROACH SLAB REINFORCEMENT-A.S.
ABUTMENT 1 APPROACH SLAB REINFORCEMENT-O.H.



CLOSURE STRIPS IN DECK SLAB
(2) REQUIRED

Bar Mark	Qty	Size	Total Length	Spacing	Y	Y	Y	Y	Y	Y	Y	Y	Y	Y
A10a	2	#5	8'-10"	4'-5"	6'-4"									
A10b	2	#5	10'-4"	5'-2"	8'-1"									
A10c	2	#5	11'-7"	5'-8"	11'-7"									
A10d	2	#5	11'-7"	5'-8"	7'-7"									
A10e	2	#5	11'-7"	5'-8"	8'-4"									
A10f	2	#5	11'-7"	5'-8"	11'-7"									
A10g	2	#5	11'-7"	5'-8"	11'-7"									
A10h	2	#5	11'-7"	5'-8"	11'-7"									
A10i	2	#5	11'-7"	5'-8"	11'-7"									
A10j	2	#5	11'-7"	5'-8"	11'-7"									
A10k	2	#5	11'-7"	5'-8"	11'-7"									
A10l	2	#5	11'-7"	5'-8"	11'-7"									
A10m	2	#5	11'-7"	5'-8"	11'-7"									
A10n	2	#5	11'-7"	5'-8"	11'-7"									
A10o	2	#5	11'-7"	5'-8"	11'-7"									
A10p	2	#5	11'-7"	5'-8"	11'-7"									
A10q	2	#5	11'-7"	5'-8"	11'-7"									
A10r	2	#5	11'-7"	5'-8"	11'-7"									
A10s	2	#5	11'-7"	5'-8"	11'-7"									
A10t	2	#5	11'-7"	5'-8"	11'-7"									
A10u	2	#5	11'-7"	5'-8"	11'-7"									
A10v	2	#5	11'-7"	5'-8"	11'-7"									
A10w	2	#5	11'-7"	5'-8"	11'-7"									
A10x	2	#5	11'-7"	5'-8"	11'-7"									
A10y	2	#5	11'-7"	5'-8"	11'-7"									
A10z	2	#5	11'-7"	5'-8"	11'-7"									
A11	2	#5	11'-7"	5'-8"	11'-7"									
A12	2	#5	11'-7"	5'-8"	11'-7"									
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A18	2	#5	11'-7"	5'-8"	11'-7"									
A19	2	#5	11'-7"	5'-8"	11'-7"									
A20	2	#5	11'-7"	5'-8"	11'-7"									
A21	2	#5	11'-7"	5'-8"	11'-7"									
A22	2	#5	11'-7"	5'-8"	11'-7"									
A23	2	#5	11'-7"	5'-8"	11'-7"									
A24	2	#5	11'-7"	5'-8"	11'-7"									
A25	2	#5	11'-7"	5'-8"	11'-7"									
A26	2	#5	11'-7"	5'-8"	11'-7"									
A27	2	#5	11'-7"	5'-8"	11'-7"									
A28	2	#5	11'-7"	5'-8"	11'-7"									
A29	2	#5	11'-7"	5'-8"	11'-7"									
A30	2	#5	11'-7"	5'-8"	11'-7"									
A31	2	#5	11'-7"	5'-8"	11'-7"									
A32	2	#5	11'-7"	5'-8"	11'-7"									
A33	2	#5	11'-7"	5'-8"	11'-7"									
A34	2	#5	11'-7"	5'-8"	11'-7"									
A35	2	#5	11'-7"	5'-8"	11'-7"									
A36	2	#5	11'-7"	5'-8"	11'-7"									
A37	2	#5	11'-7"	5'-8"	11'-7"									
A38	2	#5	11'-7"	5'-8"	11'-7"									
A39	2	#5	11'-7"	5'-8"	11'-7"									
A40	2	#5	11'-7"	5'-8"	11'-7"									
A41	2	#5	11'-7"	5'-8"	11'-7"									
A42	2	#5	11'-7"	5'-8"	11'-7"									
A43	2	#5	11'-7"	5'-8"	11'-7"									
A44	2	#5	11'-7"	5'-8"	11'-7"									
A45	2	#5	11'-7"	5'-8"	11'-7"									
A46	2	#5	11'-7"	5'-8"	11'-7"									
A47	2	#5	11'-7"	5'-8"	11'-7"									
A48	2	#5	11'-7"	5'-8"	11'-7"									
A49	2	#5	11'-7"	5'-8"	11'-7"									
A50	2	#5	11'-7"	5'-8"	11'-7"									
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A52	2	#5	11'-7"	5'-8"	11'-7"									
A53	2	#5	11'-7"	5'-8"	11'-7"									
A54	2	#5	11'-7"	5'-8"	11'-7"									
A55	2	#5	11'-7"	5'-8"	11'-7"									
A56	2	#5	11'-7"	5'-8"	11'-7"									
A57	2	#5	11'-7"	5'-8"	11'-7"									
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A60	2	#5	11'-7"	5'-8"	11'-7"									
A61	2	#5	11'-7"	5'-8"	11'-7"									
A62	2	#5	11'-7"	5'-8"	11'-7"									
A63	2	#5	11'-7"	5'-8"	11'-7"									
A64	2	#5	11'-7"	5'-8"	11'-7"									
A65	2	#5	11'-7"	5'-8"	11'-7"									
A66	2	#5	11'-7"	5'-8"	11'-7"									
A67	2	#5	11'-7"	5'-8"	11'-7"									
A68	2	#5	11'-7"	5'-8"	11'-7"									
A69	2	#5	11'-7"	5'-8"	11'-7"									
A70	2	#5	11'-7"	5'-8"	11'-7"									
A71	2	#5	11'-7"	5'-8"	11'-7"									
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A74	2	#5	11'-7"	5'-8"	11'-7"									
A75	2	#5	11'-7"	5'-8"	11'-7"									
A76	2	#5	11'-7"	5'-8"	11'-7"									
A77	2	#5	11'-7"	5'-8"	11'-7"									
A78	2	#5	11'-7"	5'-8"	11'-7"									
A79	2	#5	11'-7"	5'-8"	11'-7"									
A80	2	#5	11'-7"	5'-8"	11'-7"									
A81	2	#5	11'-7"	5'-8"	11'-7"									
A82	2	#5	11'-7"	5'-8"	11'-7"									
A83	2	#5	11'-7"	5'-8"	11'-7"									
A84	2	#5	11'-7"	5'-8"	11'-7"									
A85	2	#5	11'-7"	5'-8"	11'-7"									
A86	2	#5	11'-7"	5'-8"	11'-7"									
A87	2	#5	11'-7"	5'-8"	11'-7"									
A88	2	#5	11'-7"	5'-8"	11'-7"									
A89	2	#5	11'-7"	5'-8"	11'-7"									
A90	2	#5	11'-7"	5'-8"	11'-7"									
A91	2	#5	11'-7"	5'-8"	11'-7"									
A92	2	#5	11'-7"	5'-8"	11'-									