

Vermont Agency of Transportation

RECEIVED

ON: **June 9, 2014**

and Checked for

CONFORMANCE

BY: **Jennifer Fitch** DATE: **06/11/2014**

NEXT BEAM GENERAL NOTES

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 7,000 PSI.
- MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 5,500 PSI.
- REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) AND SHALL ADHERE TO THE REQUIREMENTS OF LEVEL II (DUAL COATED) REINFORCING STEEL IN ACCORDANCE WITH VERMONT SPECIFICATION SECTION 507.
- PRESTRESSING STRANDS SHALL CONFORM TO ASTM A-416 (AASHTO M203) AND SHALL CONSIST OF 0.60" x 270 KSI 7-WIRE LOW RELAXATION STRANDS.
- PRESTRESSING STRANDS SHALL EACH BE PULLED TO HAVE A NET TENSION OF 44.0 K AFTER ACCOUNTING FOR CHUCK SLIPPAGE. TENSION SHALL BE VERIFIED BY MEASURING STRAND ELONGATION. (SEE EXAMPLE ELONGATION CALCULATION AND TENSIONING PROCEDURE, THIS SHEET.)
- ENDS OF PRESTRESSING STRANDS SHALL BE CUT FLUSH WITH END OF NEXT BEAM STEMS (UNLESS NOTED OTHERWISE) AND EPOXY PAINTED.
- ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
- THE TOP OF BEAMS SHALL RECEIVE A SMOOTH FLOAT FINISH (UNLESS NOTED OTHERWISE).
- SHEAR KEY SURFACES SHALL BE SAND BLASTED CLEAN.
- BEAMS SHALL BE HANDLED AND ERECTED USING THE LIFTING LOOPS ONLY. THE MINIMUM SLING ANGLE FROM THE HORIZONTAL SHALL BE 90° (VERTICAL PICK). RIGGING SHALL BE CONFIGURED SUCH THAT THE BEAMS REMAIN PLUMB AND LEVEL AT ALL TIMES. A SPREADER BEAM OR FRAME MAY BE REQUIRED. THE PINS OF THE SHACKLES SHALL BE PLACED THROUGH THE LIFTING LOOPS - SEE DETAIL, THIS SHEET. BEAMS SHALL BE STORED AND TRANSPORTED WITH TIMBER SUPPORTS WITHIN 3'-0" OF THE BEAM ENDS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. P510.02 AND P510.05 RESPECTIVELY.
DESIGN MIX: J.P.C. BRIDGE MIX #430M (5 GAL./CY DCI)
- QUALITY CONTROL PROCEDURES ARE IN ACCORDANCE WITH PCI REQUIREMENTS. J.P. CARRARA & SONS, INC. IS A PCI CERTIFIED PLANT.
- CURING METHOD: AS SOON AS THE TOP OF BEAM IS FINISHED, A COVER OF INSULATED POLY. THE DESIRED CURING TEMPERATURE RANGE SHALL NOT DROP BELOW 70°F. THE TEMPERATURE SHALL BE RECORDED BY AUTOMATIC SENSOR INSTRUMENTS ON GRAPH CHARTS. SPACED NOT MORE THAN 100' APART AND WILL CONTINUE UNTIL RELEASE STRENGTH IS ACHIEVED. EACH CHART SHALL BE MARKED WITH THE CASTING DATED AND LOCATION OF THE RECORDER. IF NECESSARY TO MAINTAIN CASTING BED TEMPERATURE PRIOR TO CONCRETE PLACEMENT OR TO ACCELERATE EARLY AGE STRENGTH GAIN, EXTERNAL RADIANT HEAT MAY BE EMPLOYED VIA HOT WATER DUCTS BENEATH AND WITHIN THE PERIPHERY OF THE CASTING BED. MAXIMUM CURING TEMPERATURE SHALL NOT EXCEED PCI SPECIFIED LIMITS.
- OWNER SHALL PROVIDE APPROPRIATE WATERPROOFING TO GROUTED SHEAR KEYS. J.P. CARRARA & SONS, INC. SHALL NOT BE HELD LIABLE FOR PROBLEMS ASSOCIATED WITH MOISTURE INFILTRATING GROUTED SHEAR KEYS.
- PRECAST CONCRETE PARAPET SHALL HAVE A RUBBED FINISH IN ACCORDANCE WITH VERMONT SPECIFICATION SECTION 501.

ABUTMENT, WING WALL, & APPROACH SLAB GENERAL NOTES

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 5,000 PSI.
- MIN. CONCRETE STRENGTH AT STRIPPING SHALL BE 3,500 PSI.
- REINFORCING STEEL IN THE ABUTMENTS & APPROACH SLABS SHALL BE GR-60, ASTM A-615 (AASHTO M31) AND SHALL ADHERE TO THE REQUIREMENTS OF LEVEL I REINFORCING STEEL IN ACCORDANCE WITH VERMONT SPECIFICATION SECTION 507 (UNLESS NOTED OTHERWISE).
REINFORCING STEEL IN THE WING WALLS SHALL BE GR-60, ASTM A-615 (AASHTO M31) AND SHALL ADHERE TO THE REQUIREMENTS OF LEVEL II (DUAL COATED) REINFORCING STEEL IN ACCORDANCE WITH VERMONT SPECIFICATION SECTION 507 (UNLESS NOTED OTHERWISE).
- THE TOP OF ABUTMENTS, APPROACH SLABS, & WING WALLS SHALL RECEIVE A SMOOTH FLOAT FINISH (UNLESS NOTED OTHERWISE).
- SHEAR KEY SURFACES SHALL BE SAND BLASTED CLEAN.
- PRECAST CONCRETE UNITS SHALL BE HANDLED AND ERECTED USING THE LIFTING INSERTS ONLY. THE MINIMUM SLING ANGLE FROM THE HORIZONTAL SHALL BE 60°. NON-PRESTRESSED UNITS SHALL BE STORED & TRANSPORTED WITH TIMBER SUPPORTS AT 5th POINTS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPECIFICATION SECTION 540.
DESIGN MIX:
WING WALLS: J.P.C. BRIDGE MIX #425M NO DCI
APPROACH SLABS: J.P.C. BRIDGE MIX #425M NO DCI
ABUTMENTS: J.P.C. BRIDGE MIX #445M
- QUALITY CONTROL PROCEDURES ARE IN ACCORDANCE WITH PCI REQUIREMENTS. J.P. CARRARA & SONS, INC. IS A PCI CERTIFIED PLANT.
- CURING METHOD: AS SOON AS THE TOP OF PRECAST CONCRETE UNITS ARE FINISHED, A COVER OF RIGID INSULATION AND POLY WILL BE PLACED OVER THE UNIT. NATURAL CURE WITH NO EXTERNAL HEAT APPLIED.
- ABUTMENT POST-TENSIONING SEQUENCE:
A. ERECT PRECAST CONCRETE ABUTMENTS. APPLY SIKADUR 32 HI-MOD EPOXY TO FIRST UNIT ERECTED AT MATCH CAST JOINT.
B. THREAD (2) 1/2" POLY STRAND TENDONS THROUGH EACH DUCT IN ABUTMENTS, AND POST-TENSION ALL TENDONS TO APPROXIMATELY 3,000 LBS.
C. AFTER 12 HOURS, POST-TENSION ALL TENDONS TO 32,000 LBS.

STRAND TENSIONING PROCEDURE:

- PULL EACH STRAND INITIALLY TO 3,000* LBS. AND MARK STRAND.
 - THEN PULL EACH STRAND TO A TOTAL TENSION OF 45,026* LBS. AND MEASURE ELONGATION AFTER SEATING. IT MUST BE BETWEEN 19" AND 21".
- * NOTE: FORCES READ ON STRESSING JACK GAUGES MUST BE MADE TO CORRESPOND TO ABOVE VALUES BASED ON CALIBRATION DATA FOR SPECIFIC JACK USED.

EXAMPLE PRESTRESSING STRAND ELONGATION CALC. AND TENSIONING

(NOT TO BE USED FOR CONSTRUCTION)

SIZE & GRADE: 0.60" x 270 KSI
AREA: 0.217 IN²
TENSION: 44,000 LB. EACH STRAND
GRIP-TO-GRIP: 252'-0" = 252.00'
Es = 28,600,000 PSI (ASSUMED FOR THESE CALCULATIONS; VALUE TO BE OBTAINED FOR STRAND SPOOL ACTUALLY USED)

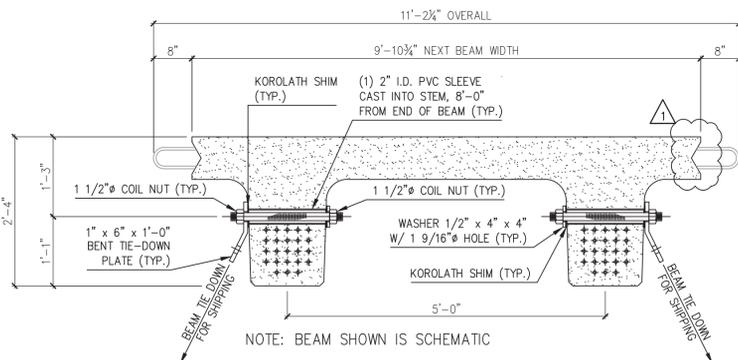
EXAMPLE:
$$\Delta = \frac{PL}{AE} = \frac{(44,000 - 3,000) \times 252.00 \times 12}{0.217 \times 28,600,000} = 19.977"$$

THEREFORE: (TOLERANCES ± 5%)
$$\Delta \text{ UPPER LIMIT} = 1.05 \times 19.977" = 20.98" = 21"$$

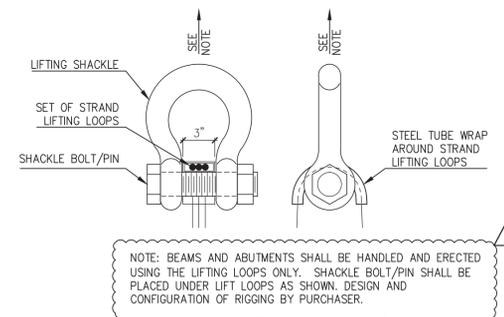
$$\Delta \text{ LOWER LIMIT} = 0.95 \times 19.977" = 18.98" = 19"$$

EXTRA FORCE REQUIRED TO COMPENSATE FOR 1/2" CHUCK SLIPPAGE:
$$\Delta P = \frac{0.5 \times 41,000}{19.977} = 1,026 \text{ LBS.}$$

TOTAL TENSIONING FORCE = 44,000 + 1,026 = 45,026 LBS.



NEXT BEAM 28D HOLD-DOWN DETAIL FOR SHIPPING



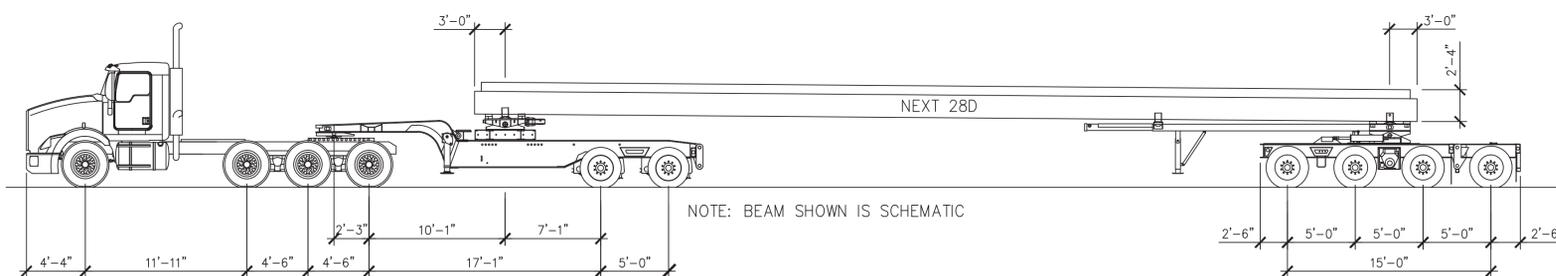
LIFTING SHACKLE DETAILS

SHOP DRAWING REVIEW

REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.
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VHB Job Number: 57927
Reviewed By: L. Olevinsky
Date: 6-11-14



SHIPPING ELEVATION

- 5/16/14 REVISE & RESUBMIT
- 4/30/14 REVISE & RESUBMIT
- 4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2844 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

W.M. SCHULTZ CONSTRUCTION, INC.
PO BOX 2620
BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

TOWN OF ROCHESTER
VI ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRP 0162 (17)

BRIDGE 16 COVER SHEET

DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM/AAT/RWS JJ/KLT
JOB NO: 23419-013
DWG. NO: C1

Eriksson technologies
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TAMPA, FL LRFDD.COM
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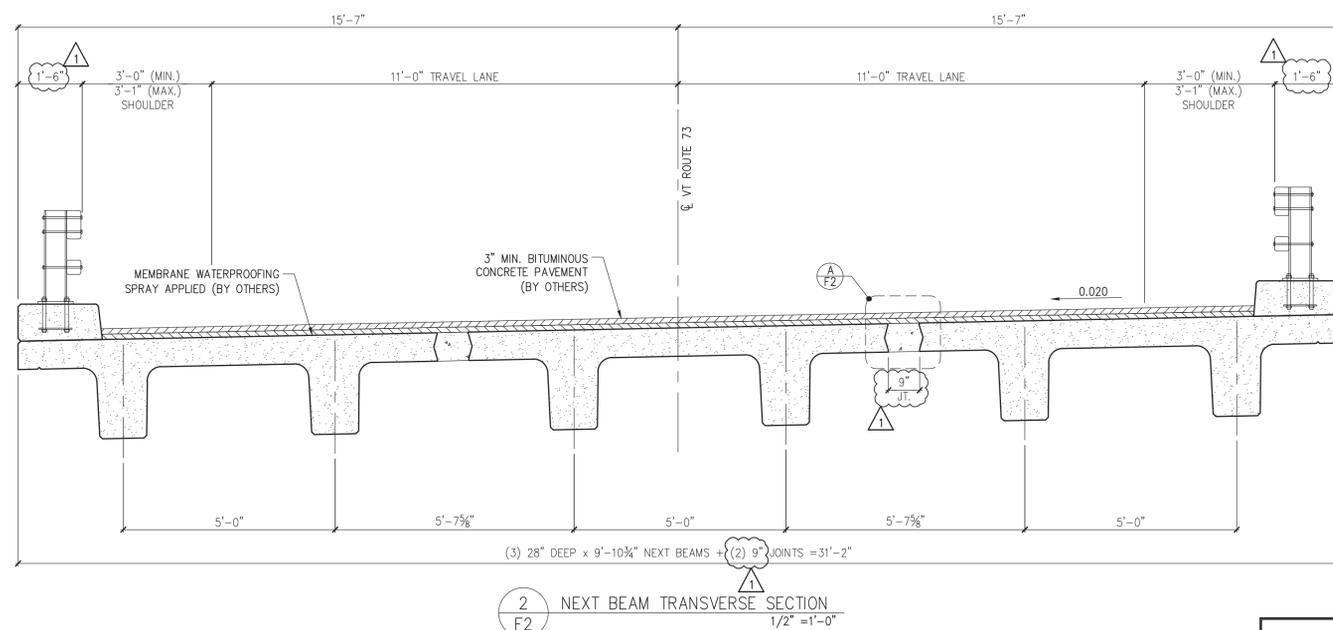
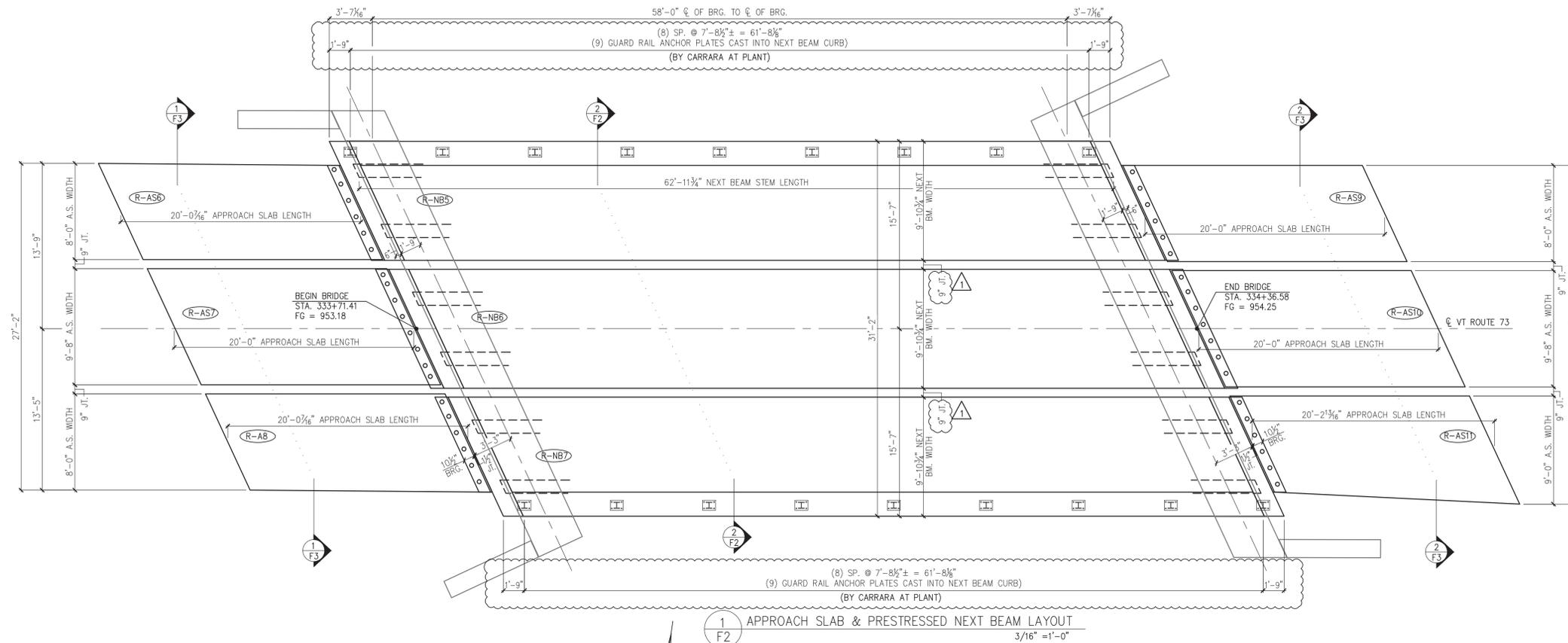
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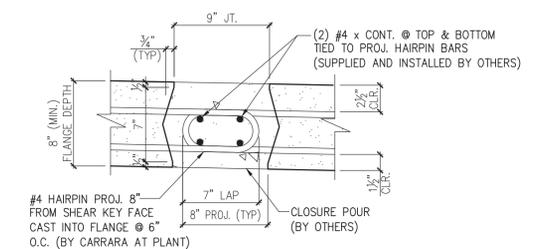
SHOP DRAWING REVIEW

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VHB Job Number: 57527
 Reviewed By: L. Cierewicz
 Date: 6-11-14



A
F2 NEXT BEAM CLOSURE POUR
 1 1/2" = 1'-0"

SUBMITTED
 JUN 6 2014
 J.P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753

4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	W.M. SCHULTZ CONSTRUCTION, INC. PO BOX 2620 BALLSTON SPA, NY 12020
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR	DATE: MAR. 14, 2014 SCALE: NOTED
	TOWN OF ROCHESTER VT ROUTE 73 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)	CHKD: DFTM: AAT/RWS JJ/KLT JOB NO: 23419-013
	SUPERSTRUCTURE PLANS & SECTIONS	DWG. NO: F2

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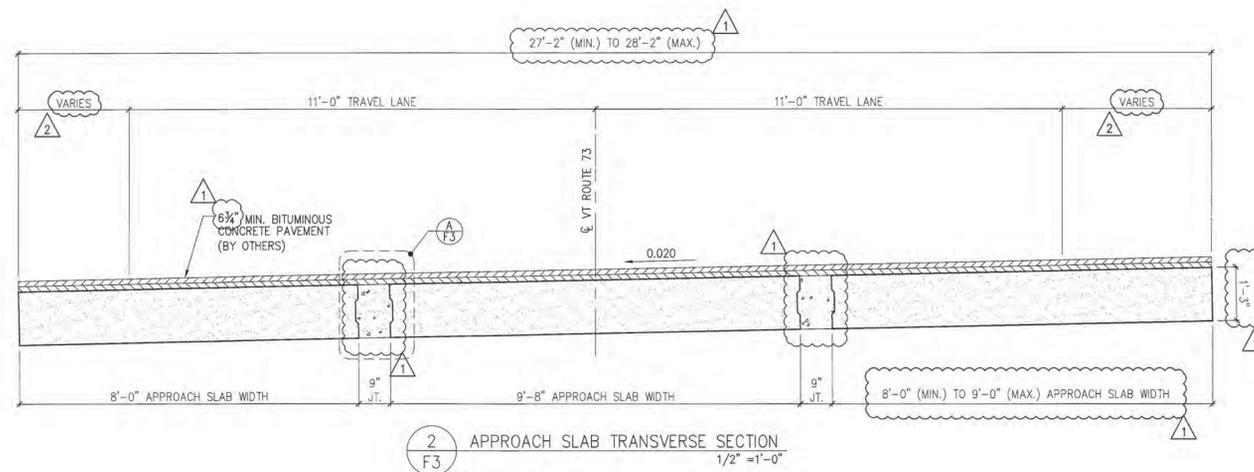
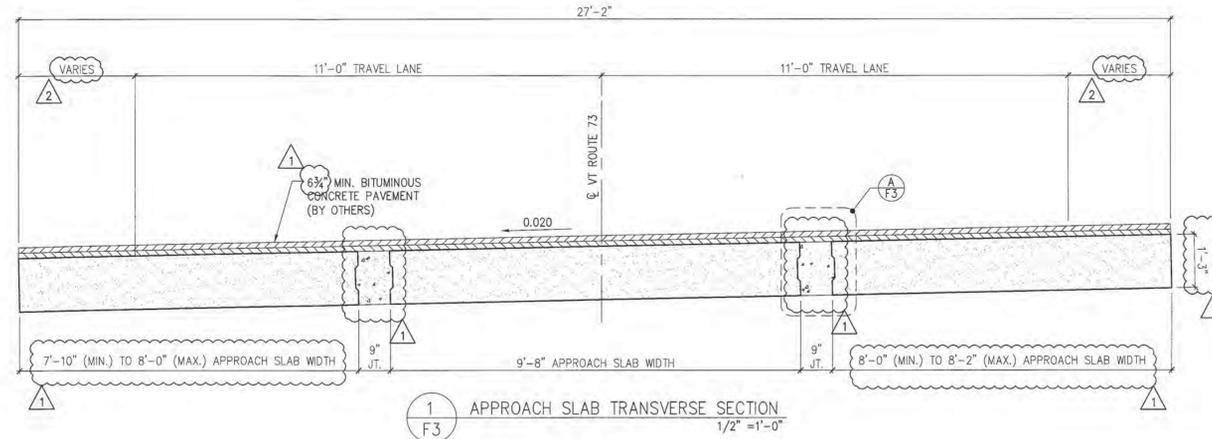
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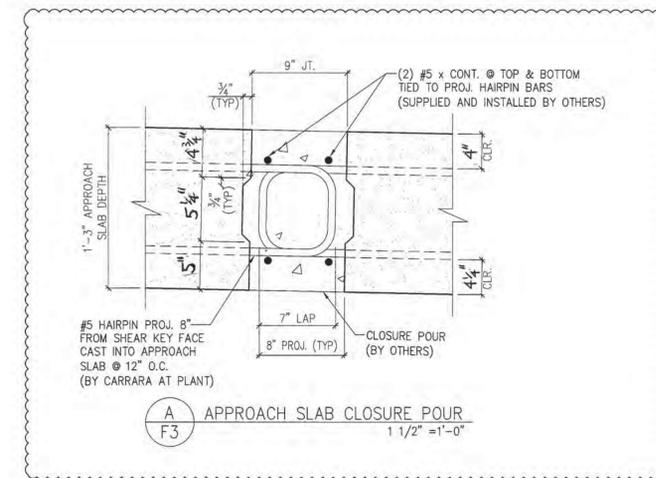
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VHB Job Number: 87957
Reviewed By: L. Chernivsky
Date: 6-11-14



- △ 5/27/14 REVISE & RESUBMIT
- △ 4/30/14 REVISE & RESUBMIT
- △ 4/11/14 REVISE & RESUBMIT

SUBMITTED
JUN 6 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2444 OISE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010</small>		W.M. SCHULTZ CONSTRUCTION, INC. <small>PO BOX 2620 BALLSTON SPA, NY 12020</small>
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR		DATE: MAR. 14, 2014 SCALE: NOTED
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	TRANSVERSE SECTIONS & DETAILS		DWG. NO: F3

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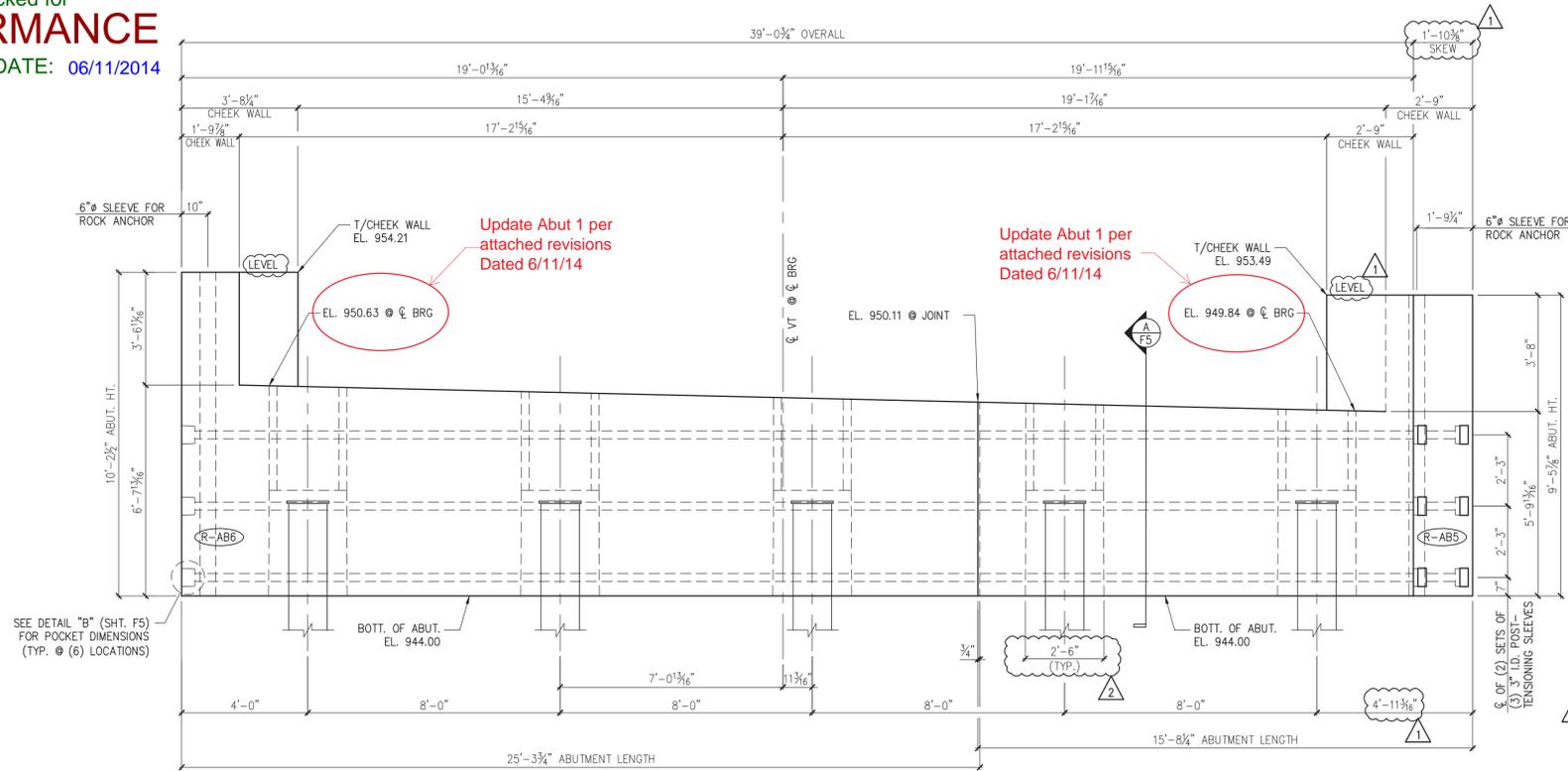
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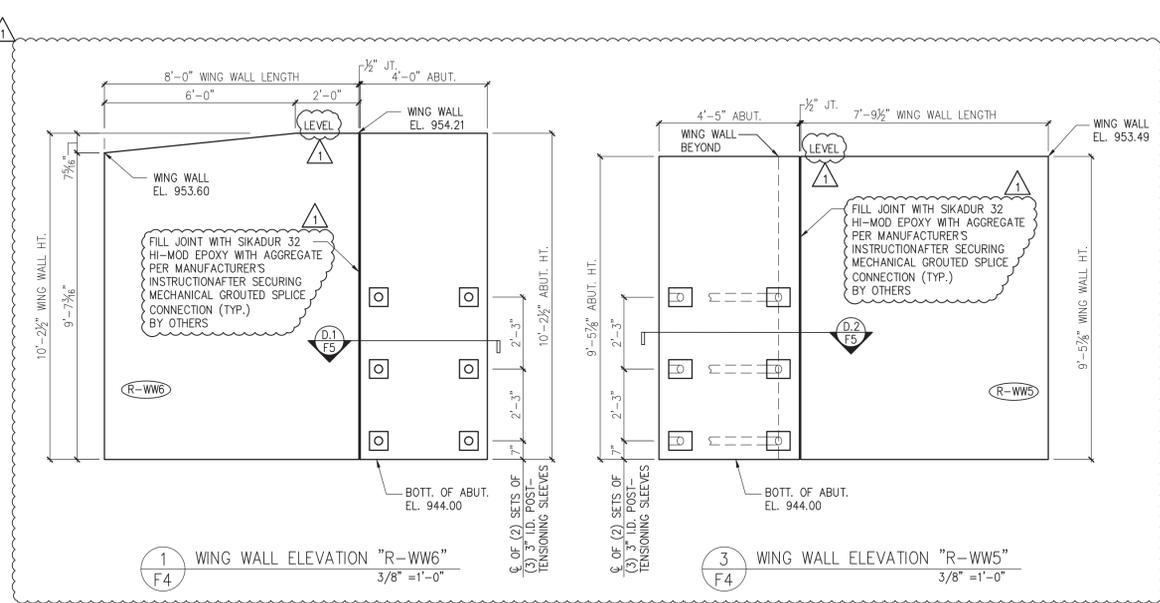
BY: Jennifer Fitch DATE: 06/11/2014



Update Abut 1 per attached revisions Dated 6/11/14

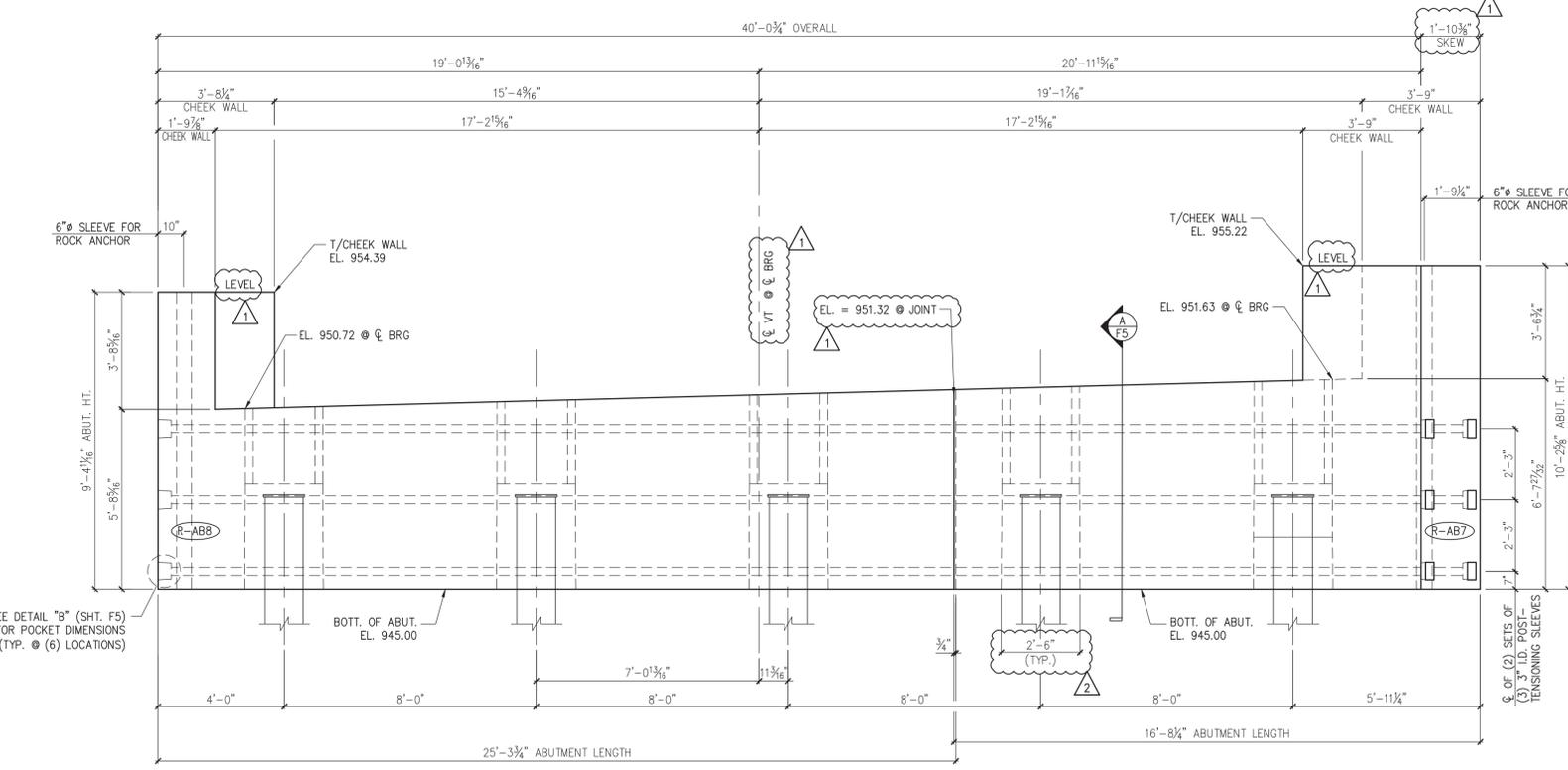
Update Abut 1 per attached revisions Dated 6/11/14

2 ABUTMENT #1 ELEVATION
3/8" = 1'-0"

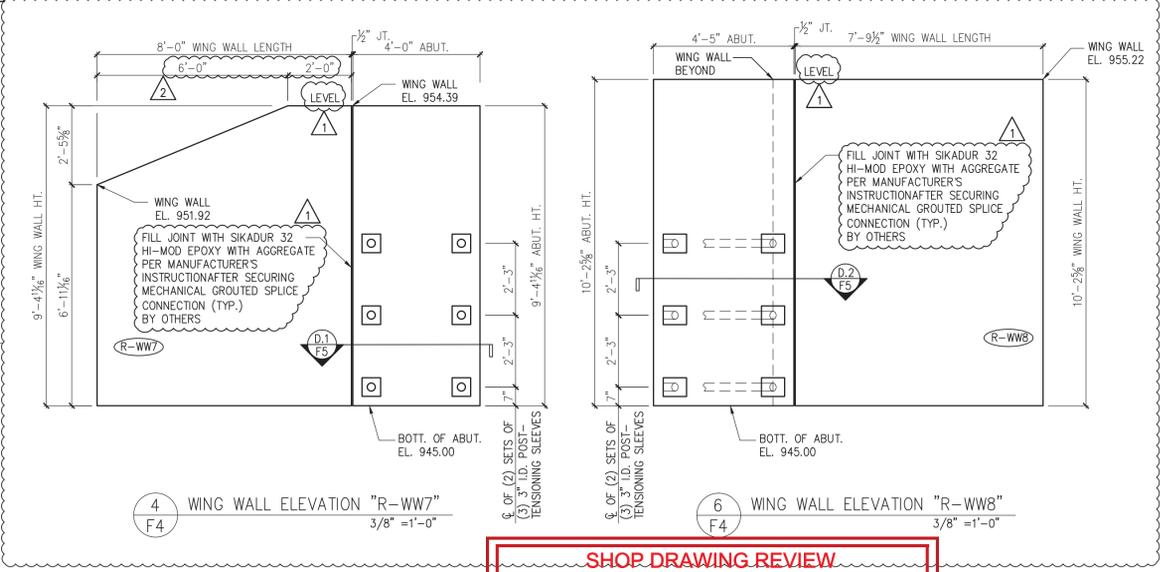


1 WING WALL ELEVATION "R-WW6"
3/8" = 1'-0"

3 WING WALL ELEVATION "R-WW5"
3/8" = 1'-0"



5 ABUTMENT #2 ELEVATION
3/8" = 1'-0"



4 WING WALL ELEVATION "R-WW7"
3/8" = 1'-0"

6 WING WALL ELEVATION "R-WW8"
3/8" = 1'-0"

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VHB Job Number: 57527
Reviewed By: L. Chernovska
Date: 6-11-14

SUBMITTED
JUN 20 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

4/30/14 REVISE & RESUBMIT
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APPROVAL STAMP:

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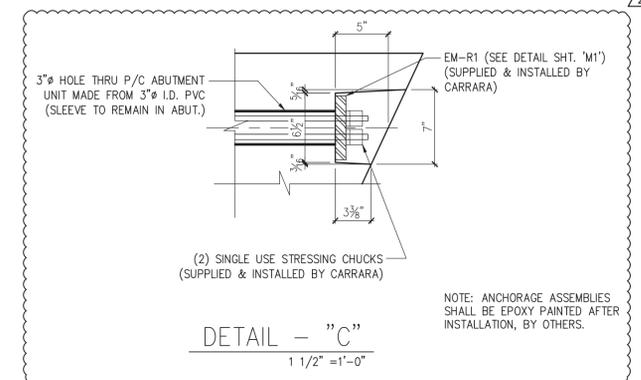
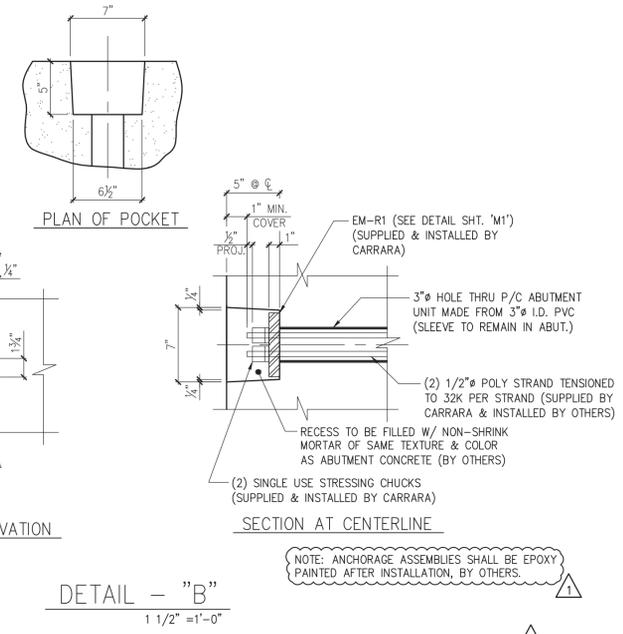
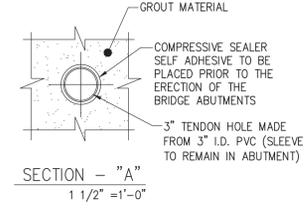
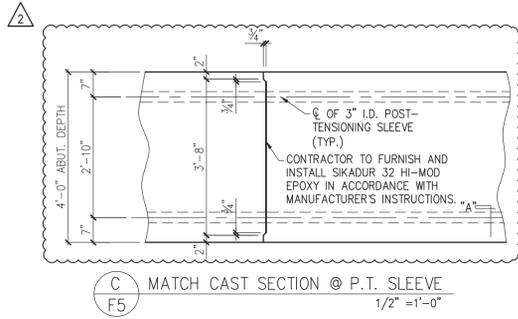
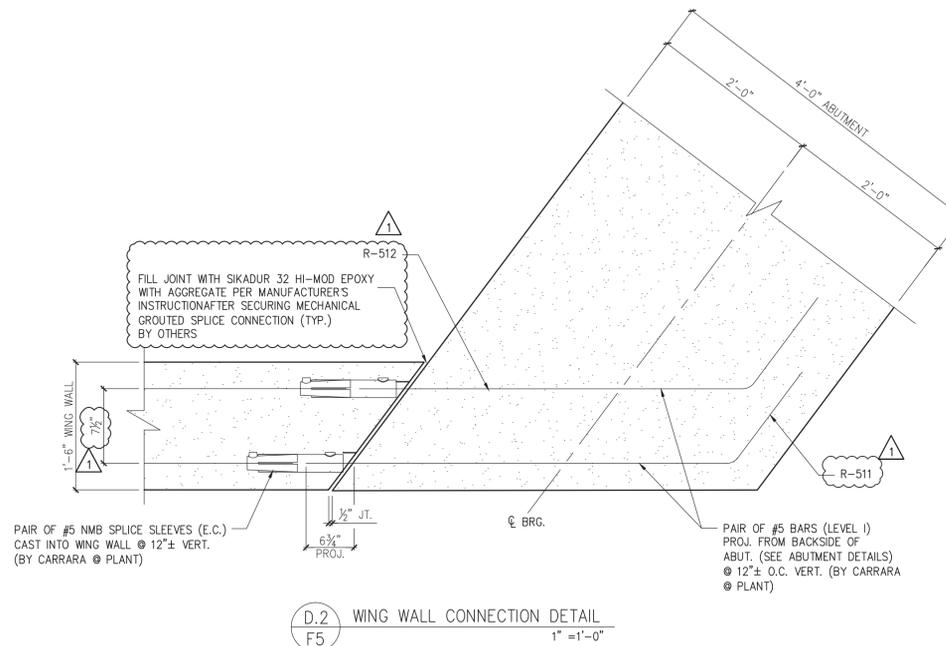
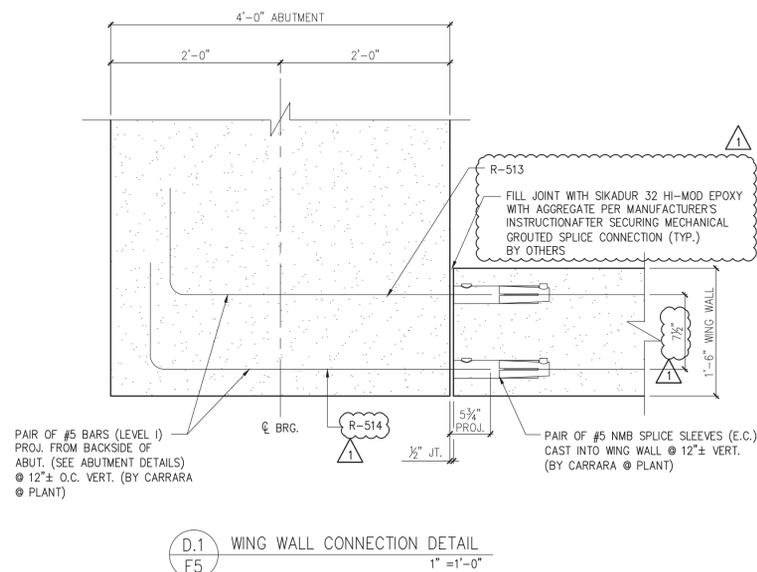
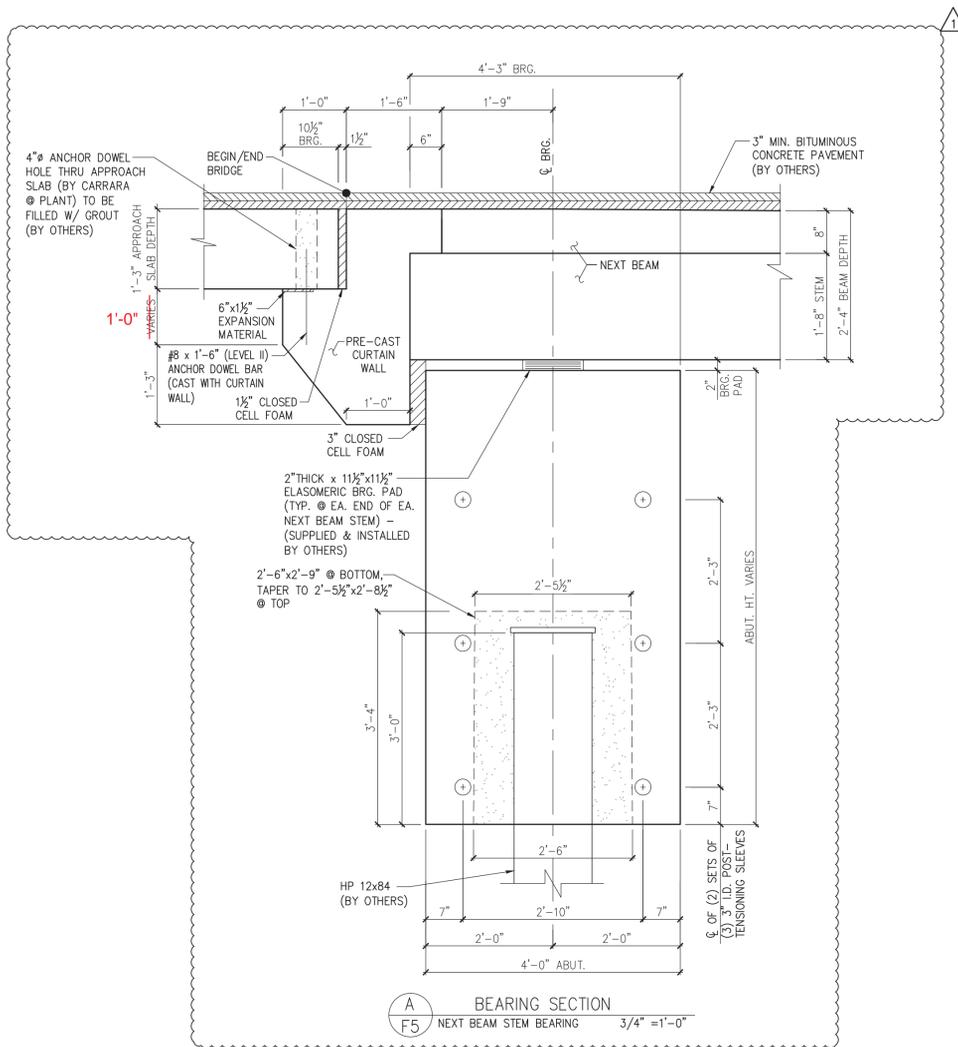
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ABUTMENT ELEVATIONS DWG. NO: F4

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Job Number: 57527
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 Date: 6-11-14

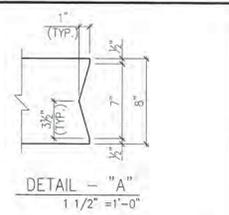
VHB

- 4/30/14 REVISE & RESUBMIT
- 4/11/14 REVISE & RESUBMIT

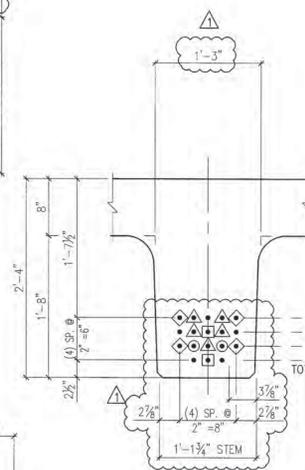
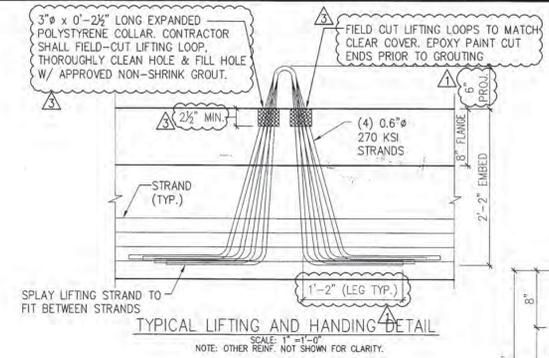
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 J.P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753



PRESTRESSING NOTATIONS
• DENOTES STRAIGHT STRANDS TO BE CUT FLUSH WITH EA. END OF EA. STEM
◊ DENOTES STRAIGHT STRANDS TO PROJECT 1'-6" FROM EA. END OF EA. STEM
▲ DENOTES STRAIGHT STRANDS TO BE DEBONDED 6" FROM EA. END OF EA. STEM
◻ DENOTES STRAIGHT STRANDS TO BE DEBONDED 8'-0" FROM EA. END OF EA. STEM
○ DENOTES STRAIGHT STRANDS TO BE DEBONDED 12'-0" FROM EA. END OF EA. STEM



(5) STRANDS
○ (5) STRANDS
○ (3) STRANDS
TOTAL (18) 0.60" x 270 KSI STRANDS @ EACH STEM PULLED TO 44.0K EACH

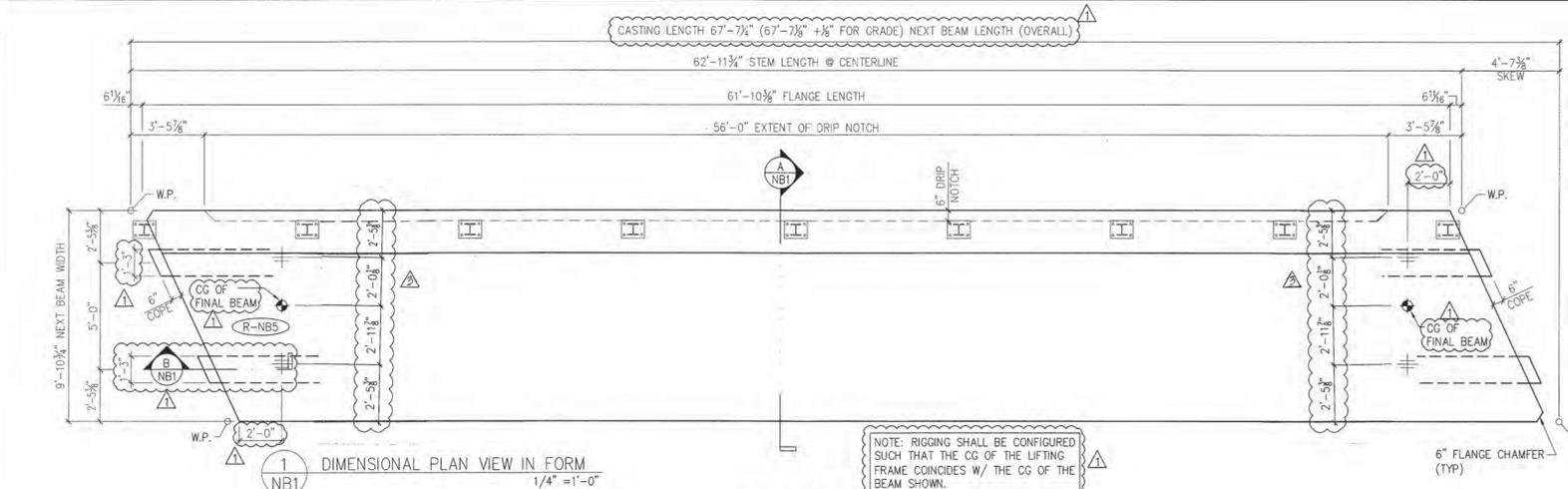
DETENSING SCHEDULE
N.T.S.

7	1	5	3	9
17	11	15	13	19
27	21	23	22	29
31	33	33		
10	4	6	2	8
20	14	16	12	18
30	24	26	22	28
34	36	32		

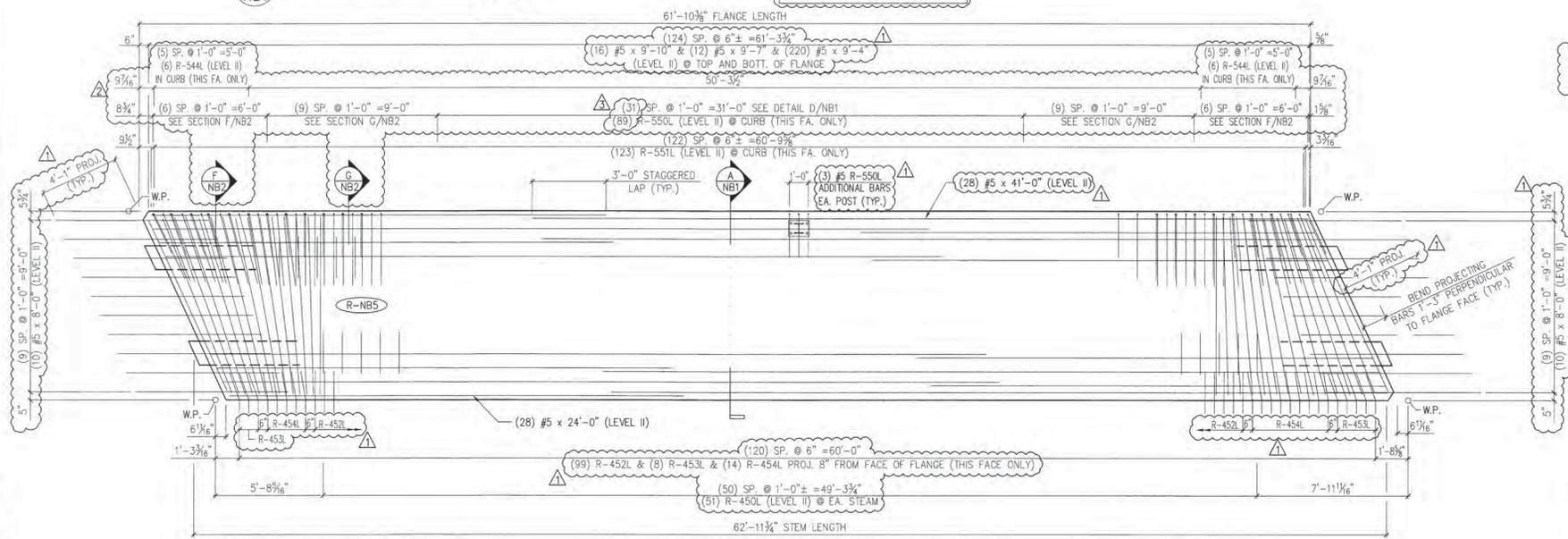
SUBMITTED
JUN 6 20 14
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

MARK:	R-NB5	QTY.:	1	WT.:	49.3 T	VOL.:	24.33 cy
TOTAL WITH CURTAIN WALLS & CURB -				WT.:	67.5 T	VOL.:	33.4 cy

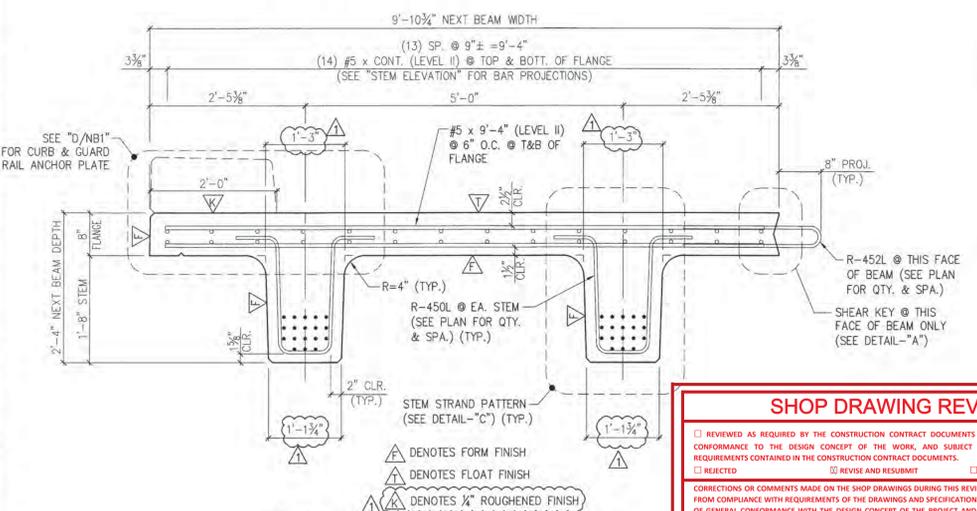
MATERIAL LIST / NEXT BEAM			
ITEM	MARK	DESCRIPTION	QTY.
1	R-450L	#4 BENT BAR (LEVEL II, DUAL COATED)	146
2	R-451L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
3	R-452L	#4 BENT BAR (LEVEL II, DUAL COATED)	99
4	R-453L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
5	R-454L	#4 BENT BAR (LEVEL II, DUAL COATED)	14
6			
7	R-544L	#6 BENT BAR (LEVEL II, DUAL COATED)	18
8	R-550L	#5 BENT BAR (LEVEL II, DUAL COATED)	85
9	R-551L	#5 BENT BAR (LEVEL II, DUAL COATED)	123
10	R-552L	#5 BENT BAR (LEVEL II, DUAL COATED)	16
11			
12		#4 x 9'-10" (LEVEL II, DUAL COATED)	18
13			
14		#5 x 8'-0" (LEVEL II, DUAL COATED)	20
15		#5 x 9'-4" (LEVEL II, DUAL COATED)	220
16		#5 x 9'-7" (LEVEL II, DUAL COATED)	12
17		#5 x 9'-10" (LEVEL II, DUAL COATED)	20
18		#5 x 24'-0" (LEVEL II, DUAL COATED)	28
19		#5 x 26'-0" (LEVEL II, DUAL COATED)	3
20		#5 x 40'-0" (LEVEL II, DUAL COATED)	3
21		#5 x 41'-0" (LEVEL II, DUAL COATED)	28
22			
23		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4



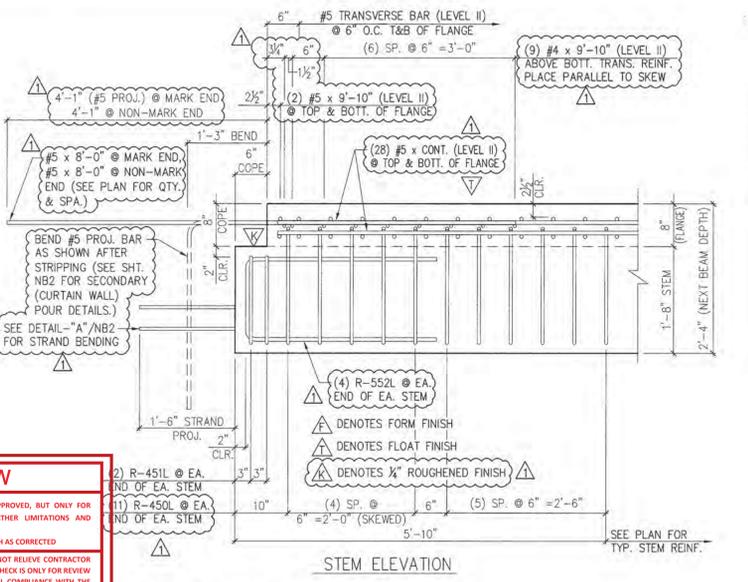
1 DIMENSIONAL PLAN VIEW IN FORM
1/4" = 1'-0"



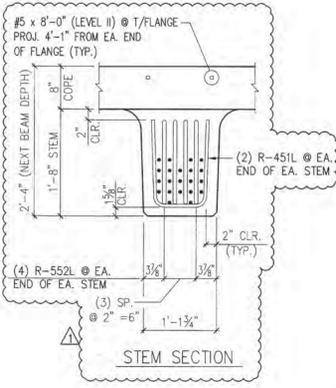
2 REINFORCING PLAN VIEW IN FORM
ALL DIMENSIONS INDICATED ARE PARALLEL OR PERPENDICULAR TO C OF STEMS U.N.O.
1/4" = 1'-0"



A DIMENSIONAL & REINFORCING SECTION
3/4" = 1'-0"



B STEM ELEVATION
3/4" = 1'-0"



5/16/14 REVISE & RESUBMIT
4/30/14 REVISE & RESUBMIT
4/11/14 REVISE & RESUBMIT

SHOP DRAWING REVIEW

REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

CORRECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

VHB
Job Number: 57927
Reviewed By: L. Chervacku
Date: 6-11-14

APPROVAL STAMP:

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2844 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

W.M. SCHULTZ CONSTRUCTION, INC.
PO BOX 2620
BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM/AAT/RWS
JJK/KLT
JOB NO: 23419-013

Eriksson technologies
813.989.3317
TAMPA, FL LRFD.COM
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DWG. NO: NB1

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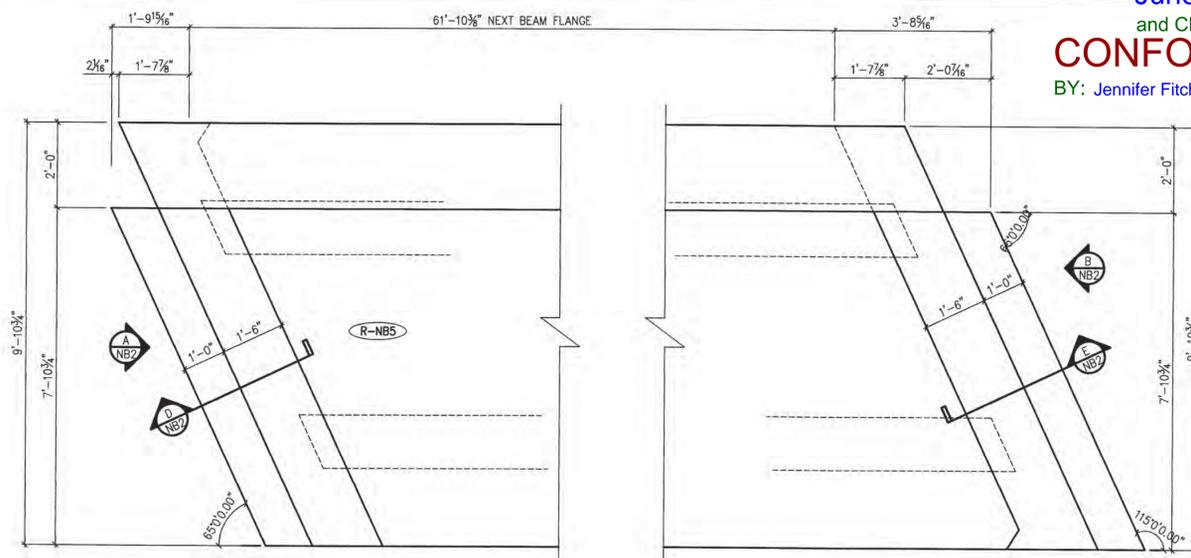
RECEIVED

ON: June 9, 2014

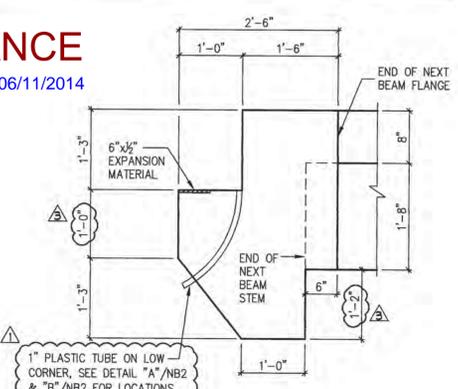
and Checked for

CONFORMANCE

BY: Jennifer Fitch DATE: 06/11/2014



1 CURTAIN WALL PLAN VIEW IN FORM NB2 (CAST AS SECONDARY POUR, AFTER DETENSIONING) 1/2\"/>



C DIMENSIONAL CURTAIN WALL SECTION NB2 3/4\"/>

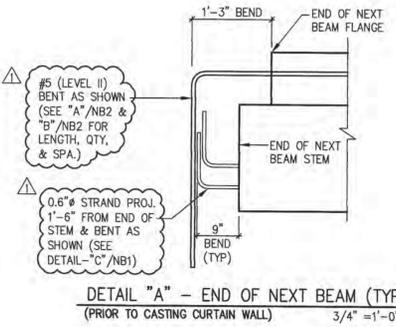
SHOP DRAWING REVIEW

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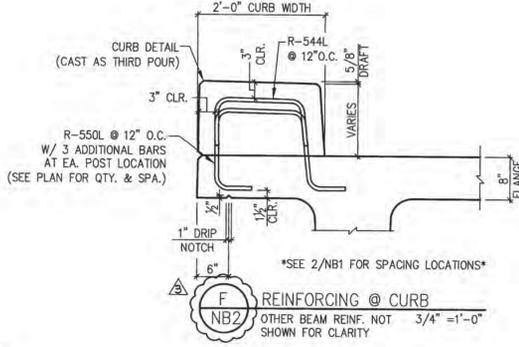
REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

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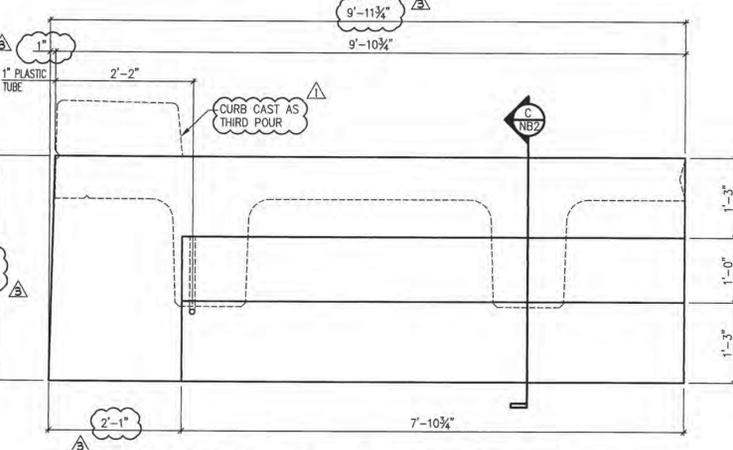
VHB
 Job Number: 97527
 Reviewed By: L. Cierniewski
 Date: 6-11-14



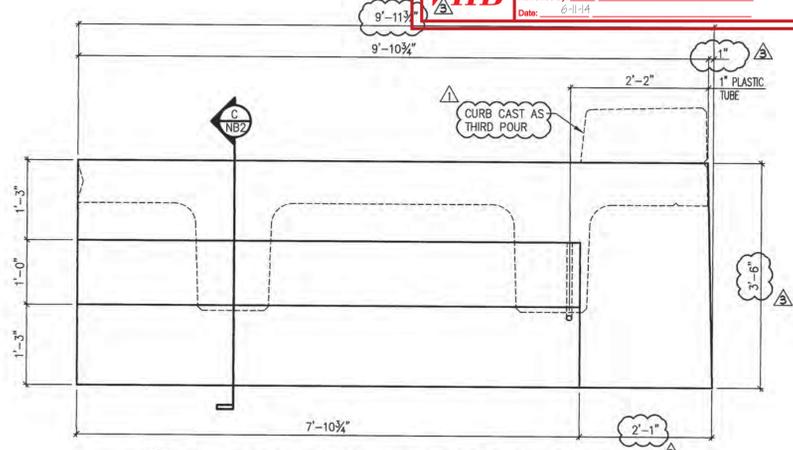
DETAIL "A" - END OF NEXT BEAM (TYP.) (PRIOR TO CASTING CURTAIN WALL) 3/4\"/>



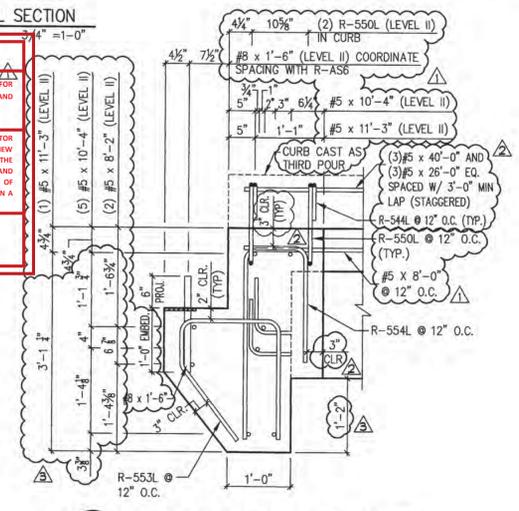
REINFORCING @ CURB NB2 OTHER BEAM REINF. NOT SHOWN FOR CLARITY 3/4\"/>



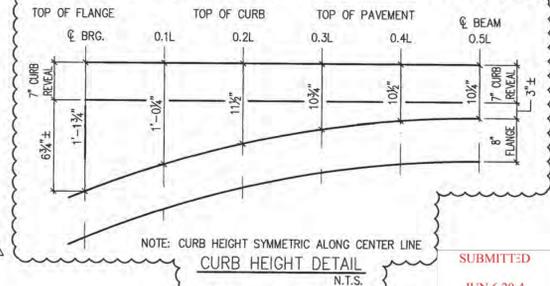
A DIMENSIONAL CURTAIN WALL ELEVATION @ ABUT. #1 NB2 3/4\"/>



B DIMENSIONAL CURTAIN WALL ELEVATION @ ABUT. #2 NB2 3/4\"/>

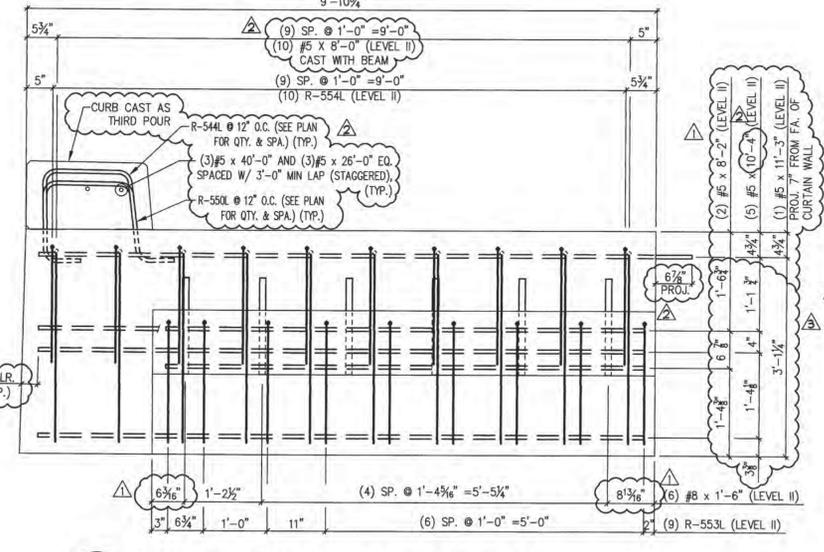


D REINFORCING CURTAIN WALL SECTION NB2 3/4\"/>

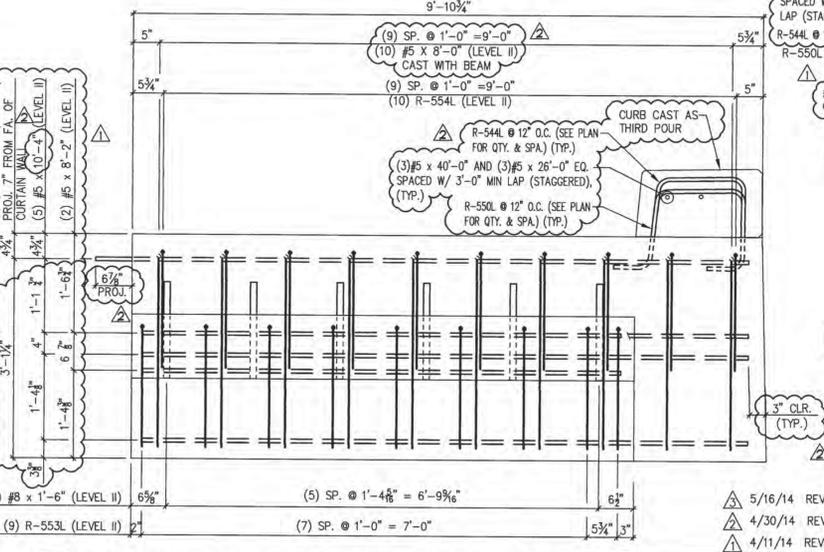


NOTE: CURB HEIGHT SYMMETRIC ALONG CENTER LINE N.T.S.

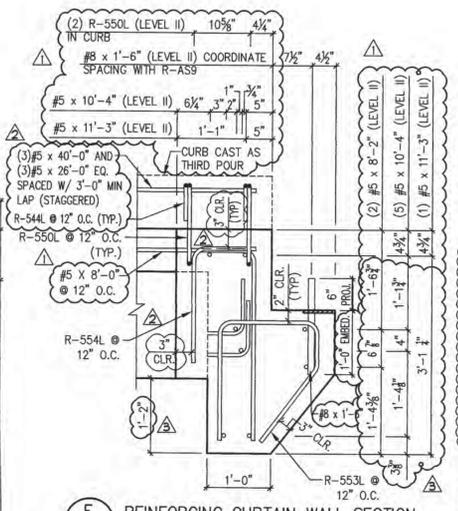
SUBMITTED JUN 6 2014 J.P. CARRARA & SONS, INC. MIDDLEBURY, VT 05753



A REINFORCING CURTAIN WALL ELEVATION @ ABUT. #1 NB2 3/4\"/>



B REINFORCING CURTAIN WALL ELEVATION @ ABUT. #1 NB2 3/4\"/>



E REINFORCING CURTAIN WALL SECTION NB2 3/4\"/>

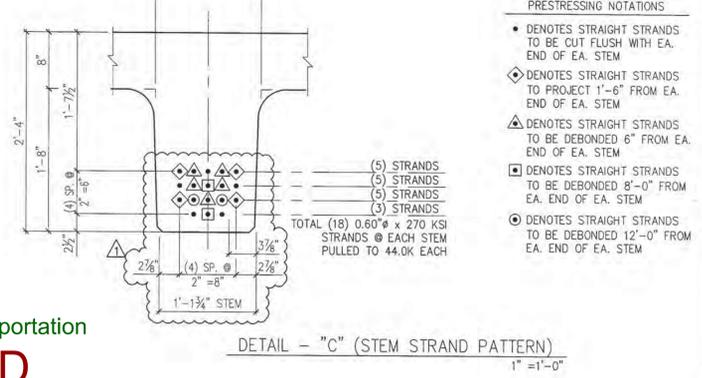
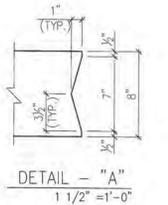
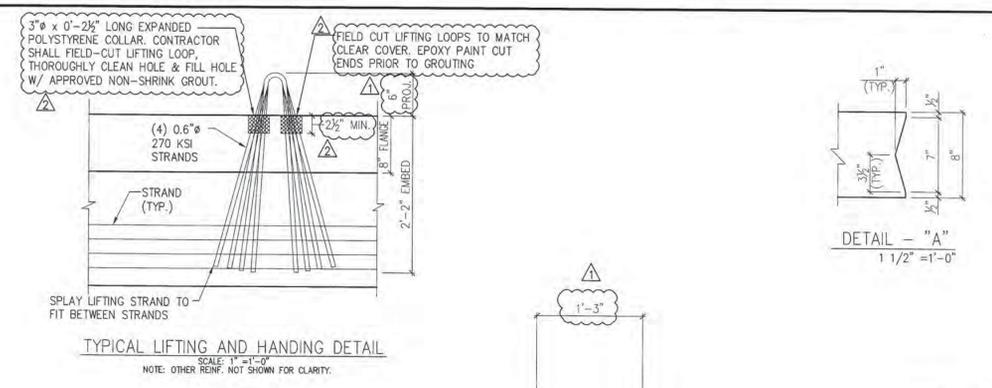
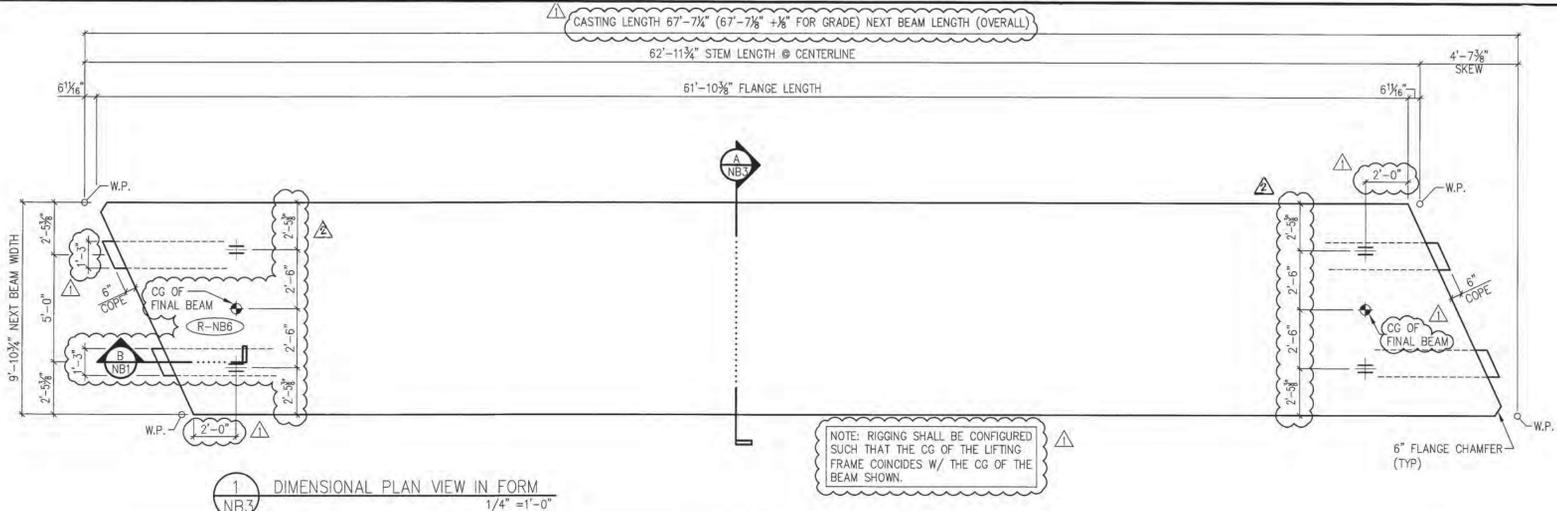
MARK:	R-NB5	QTY.:	1	WT.:	9.3 T	VOL.:	4.60 cy
MATERIAL LIST / CURTAIN WALLS							
ITEM	MARK	DESCRIPTION					QTY.
1	R-553L	#5 BENT BAR (LEVEL II, DUAL COATED)					18
2	R-554L	#5 BENT BAR (LEVEL II, DUAL COATED)					20
3							
4							
5		#5 x 8'-2\" (LEVEL II, DUAL COATED)					4
6		#5 x 10'-4\" (LEVEL II, DUAL COATED)					10
7		#5 x 11'-3\" (LEVEL II, DUAL COATED)					2
8							
9		#5 x 1'-6\" (LEVEL II, DUAL COATED)					12
10							
11		1\" PLASTIC TUBE					2
12							
13							
14							

APPROVAL STAMP:

5/16/14 REVISE & RESUBMIT
 4/30/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

J.P. CARRARA & SONS INC. W.M. SCHULTZ CONSTRUCTION, INC.
 Precast & Prestress Manufacturer PO BOX 2620
 2664 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-8010 BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR DATE: MAR. 14, 2014
 TOWN OF ROCHESTER SCALE: NOTED
 VT ROUTE 73 (RURAL MAJOR COLLECTOR) CHKD: DFTM/AAT/RWS
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162(17) JOB NO: 23419-013
 DWG. NO: NB2



- PRESTRESSING NOTATIONS
- DENOTES STRAIGHT STRANDS TO BE CUT FLUSH WITH EA. END OF EA. STEM
 - ◊ DENOTES STRAIGHT STRANDS TO PROJECT 1'-6\"/>
 - ▲ DENOTES STRAIGHT STRANDS TO BE DEBONDED 6\"/>
 - DENOTES STRAIGHT STRANDS TO BE DEBONDED 8'-0\"/>
 - DENOTES STRAIGHT STRANDS TO BE DEBONDED 12'-0\"/>

SHOP DRAWING REVIEW

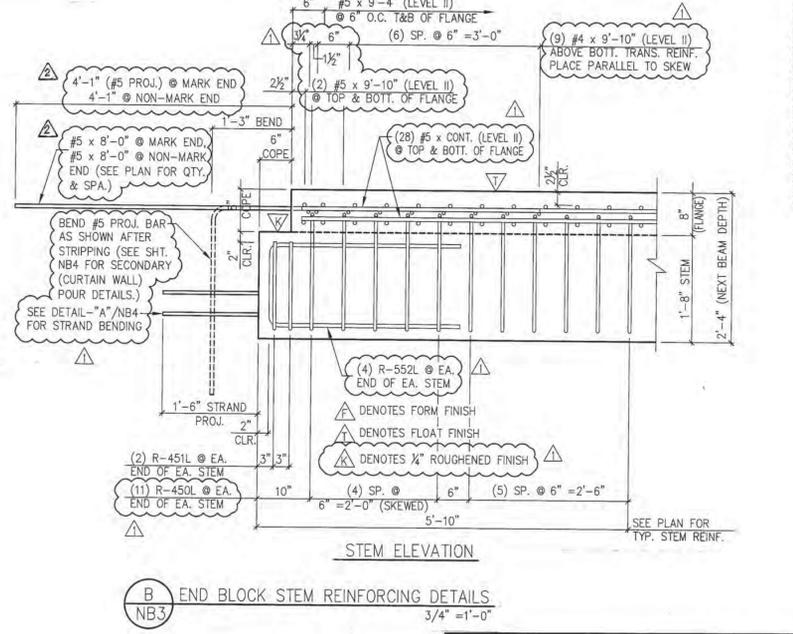
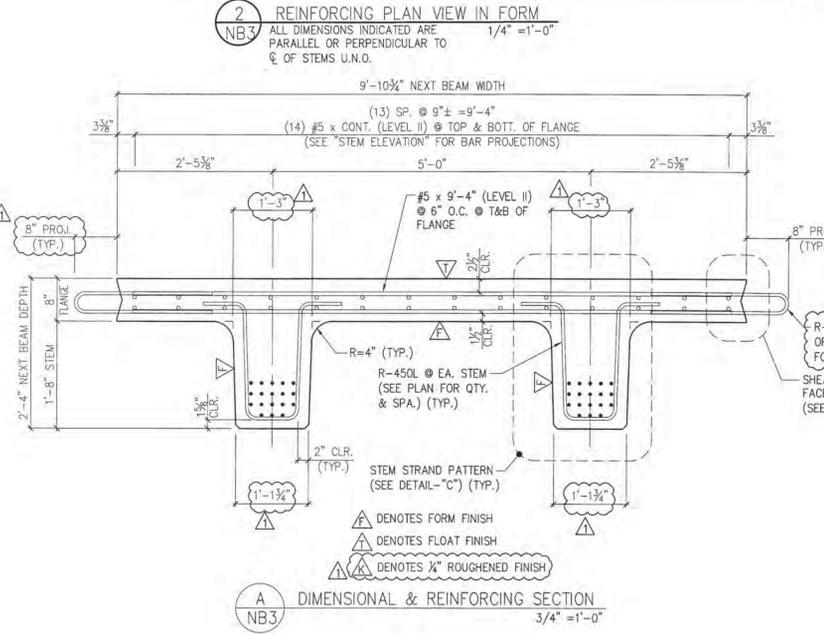
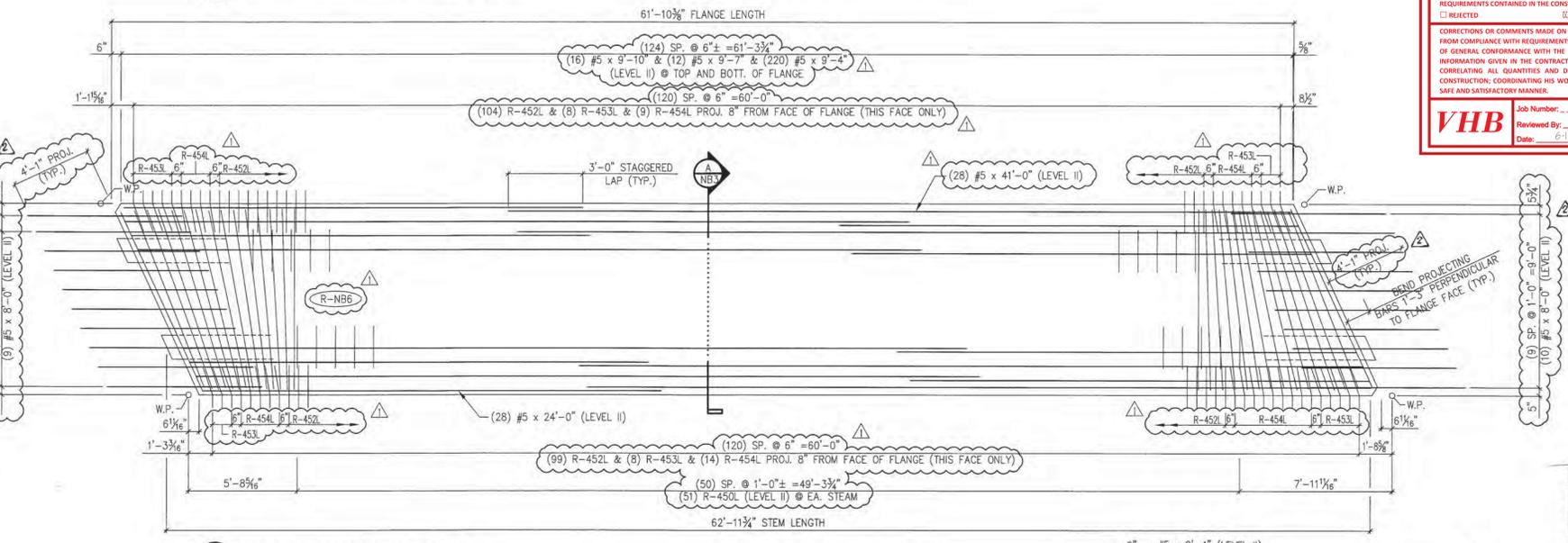
□ REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

□ REJECTED □ REVISE AND RESUBMIT □ FURNISH AS CORRECTED

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VHB Job Number: 91921
 Reviewed By: L. Charvada
 Date: 6/11/14

Vermont Agency of Transportation
RECEIVED
 ON: June 9, 2014
 and Checked for
CONFORMANCE
 BY: Jennifer Fitch DATE: 06/11/2014



DETONSING SCHEDULE N.T.S.

7	1	5	3	9	10	4	6	2	8					
17	1	1	9	13	19	20	1	4	16	12	18			
27	2	1	2	5	23	29	30	2	4	28	22	28		
					31	33	33					34	36	32

MARK: R-NB6 QTY.: 1 WT.: 49.3 T VOL.: 24.33 cy

TOTAL WITH CURTAIN WALLS - WT.: 29.91 T VOL.: 29.54 cy

MATERIAL LIST / NEXT BEAM

ITEM	MARK	DESCRIPTION	QTY.
1	R-450L	#4 BENT BAR (LEVEL II, DUAL COATED)	146
2	R-451L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
3	R-452L	#4 BENT BAR (LEVEL II, DUAL COATED)	203
4	R-453L	#4 BENT BAR (LEVEL II, DUAL COATED)	16
5	R-454L	#4 BENT BAR (LEVEL II, DUAL COATED)	23
6			
7	R-552L	#5 BENT BAR (LEVEL II, DUAL COATED)	16
8			
9		#4 x 9'-10" (LEVEL II, DUAL COATED)	18
10		#5 x 8'-0" (LEVEL II, DUAL COATED)	20
11		#5 x 9'-4" (LEVEL II, DUAL COATED)	220
12		#5 x 9'-7" (LEVEL II, DUAL COATED)	12
13		#5 x 9'-10" (LEVEL II, DUAL COATED)	20
14		#5 x 24'-0" (LEVEL II, DUAL COATED)	28
15		#5 x 41'-0" (LEVEL II, DUAL COATED)	28
16			
17			
18		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4

5/16/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:

J.P. CARRARA & SONS INC.
 Precast & Prestress Manufacturer
 2664 ONE STR., MIDDLEBURY, VERMONT 05751 Phone: (802)388-6361 Fax: (802)388-9010

W.M. SCHULTZ CONSTRUCTION, INC.
 PO BOX 2620
 BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
 COUNTY OF WINDSOR

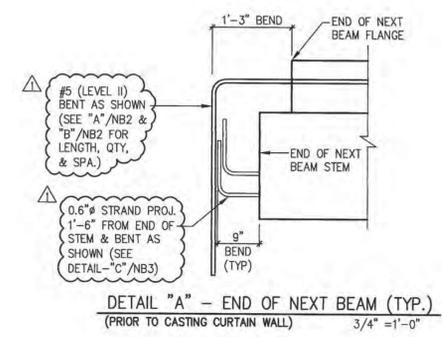
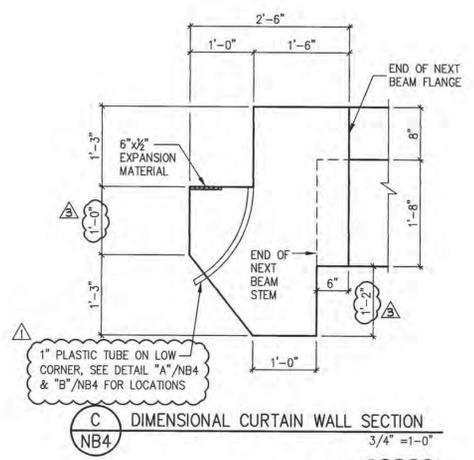
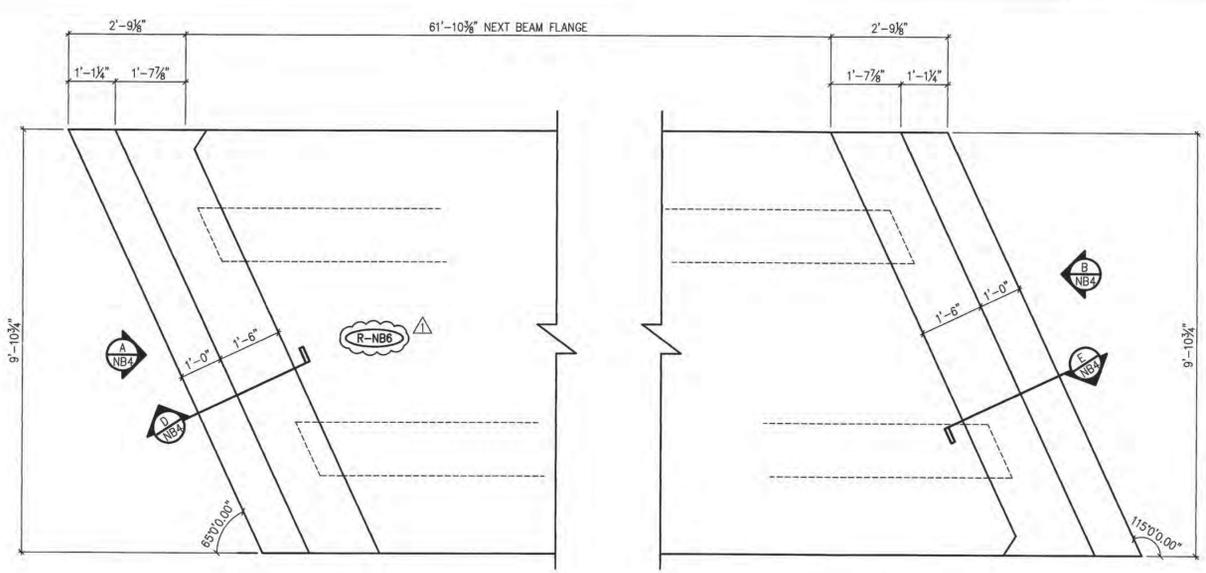
TOWN OF ROCHESTER
 VT ROUTE 73 (RURAL MAJOR COLLECTOR)
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
 SCALE: NOTED
 CHKD: DFTM/AAT/RWS
 JJU/KLT
 JOB NO: 23419-013
 DWG. NO: NB3

Eriksson technologies 813.989.3317
 TAMPA, FL LRFD.COM
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S:\Engineering Services\Carrara\14002 Rochester BR 15 & 16\Production Drawings\AutoCAD Files\BR16 - R-NB2.dwg, 5/21/2014 4:25:32 PM

RECEIVED
 ON: **June 9, 2014**
 and Checked for
CONFORMANCE
 BY: Jennifer Fitch DATE: 06/11/2014



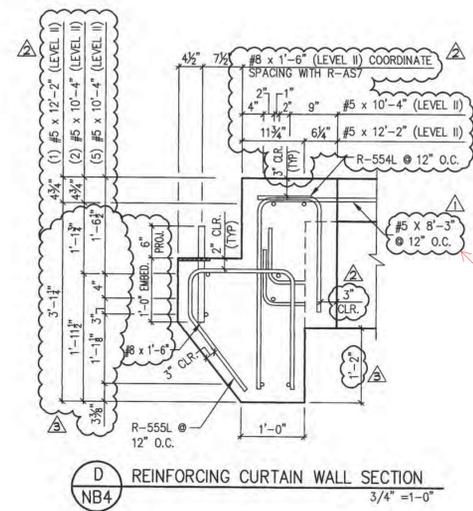
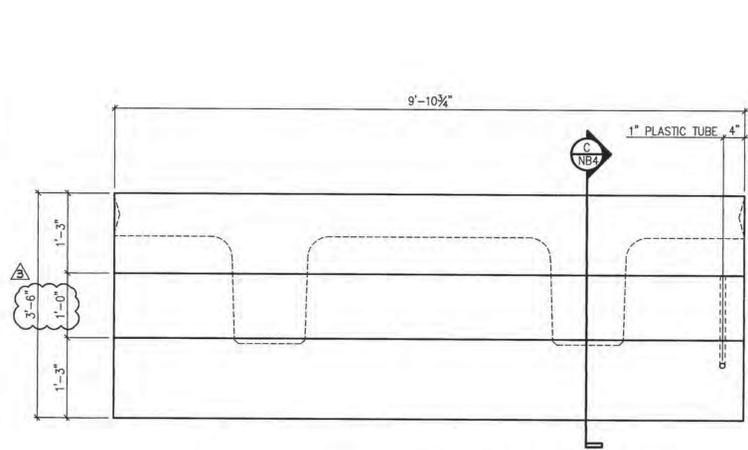
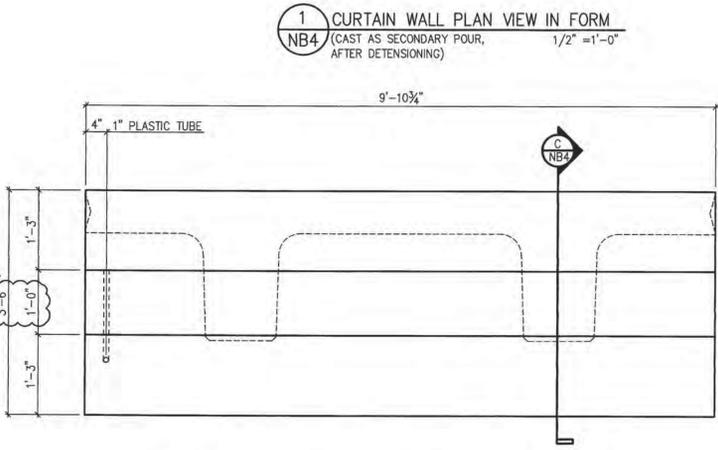
SHOP DRAWING REVIEW

REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

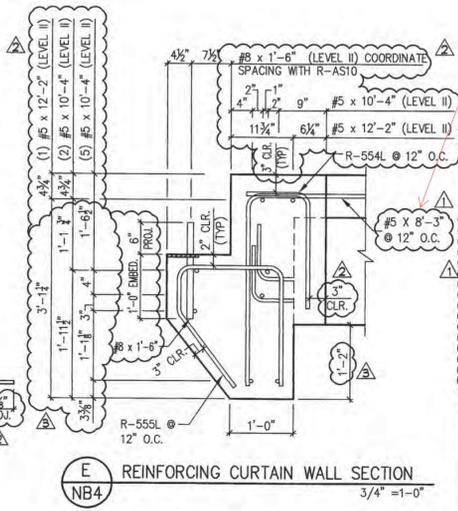
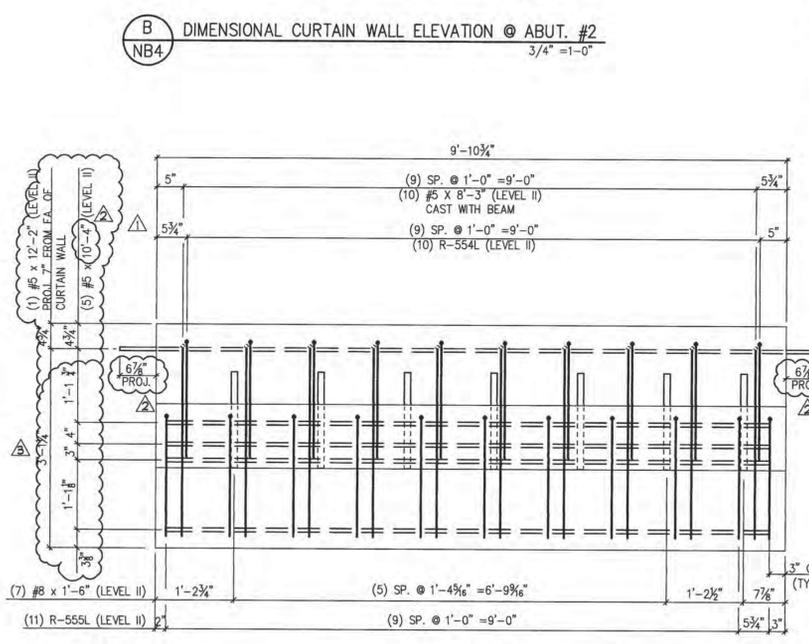
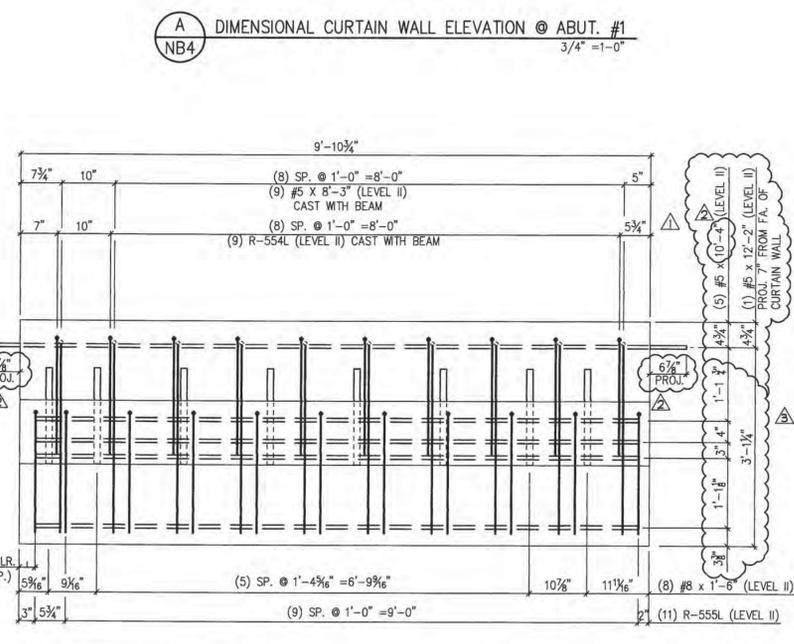
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VHB Job Number: 97527
 Reviewed By: L. Chernicka
 Date: 6-11-14



Verify length, does not match Reinforcing Plan on Sheet NB3



- 5/16/14 REVISE & RESUBMIT
- 4/30/14 REVISE & RESUBMIT
- 4/11/14 REVISE & RESUBMIT

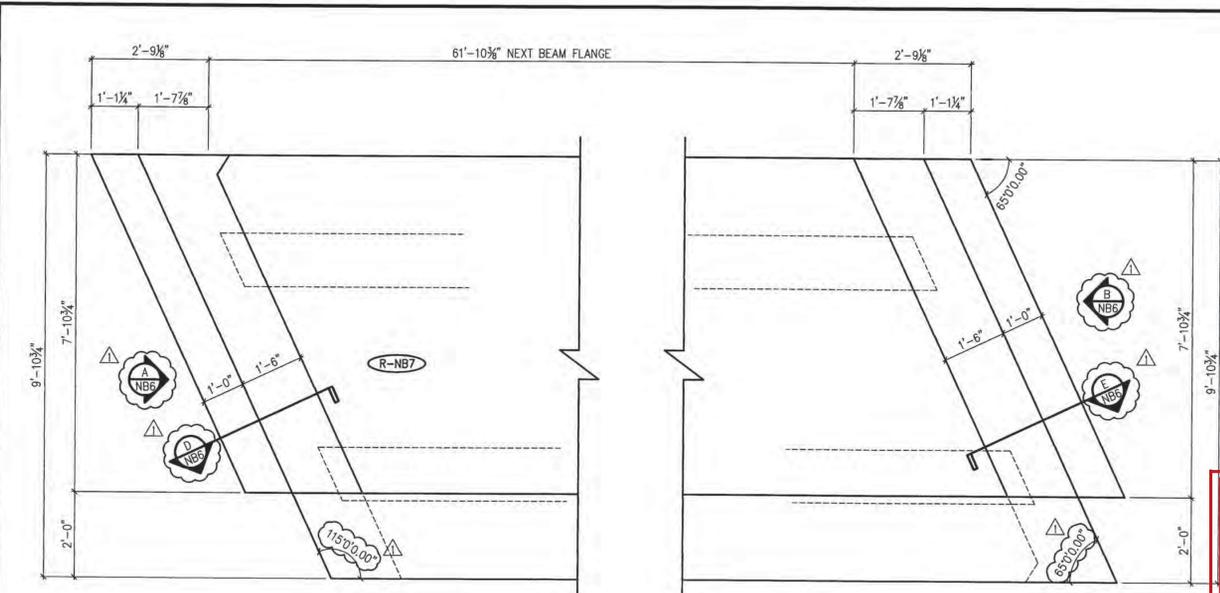
SUBMITTED
 JUN 6 20 4
 J. P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753

MARK:	R-NB6	QTY.:	1	WT.:	10.6 T	VOL.:	5.22 cy
MATERIAL LIST / CURTAIN WALLS							
ITEM	MARK	DESCRIPTION					QTY.
1	R-554L	#5 BENT BAR (LEVEL II, DUAL COATED)					20
2	R-555L	#5 BENT BAR (LEVEL II, DUAL COATED)					22
3							
4							
5		#5 X 10'-4" (LEVEL II, DUAL COATED)					14
6		#5 X 12'-2" (LEVEL II, DUAL COATED)					2
7							
8		#8 X 1'-6" (LEVEL II, DUAL COATED)					15
9							
10		1" PLASTIC TUBE					2
11							
12							
13							
14							

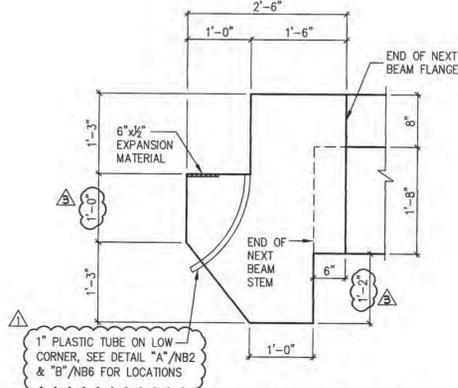
APPROVAL STAMP:

J.P. CARRARA & SONS INC. W.M. SCHULTZ CONSTRUCTION, INC.
 Precast & Prestress Manufacturer PO BOX 2620
 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010 BALLSTON SPA, NY 12020

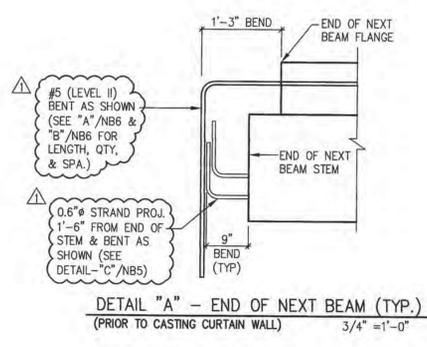
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR DATE: MAR. 14, 2014
 TOWN OF ROCHESTER CHKD: DFTM: AAT/RWS
 VT ROUTE 73 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 16 PROJECT NO.: BRF 0162(17) SCALE: NOTED
 JOB NO: 23419-013
 DWG. NO: NB4



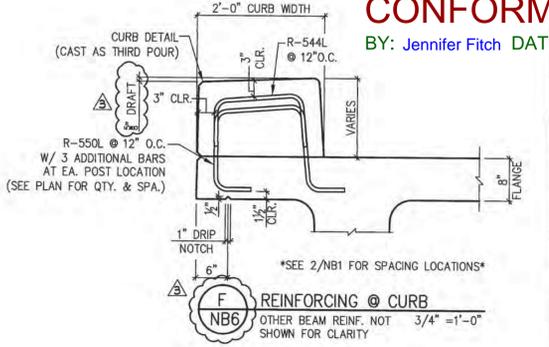
1 CURTAIN WALL PLAN VIEW IN FORM NB6 (CAST AS SECONDARY POUR, AFTER DETENSIONING) 1/2" = 1'-0"



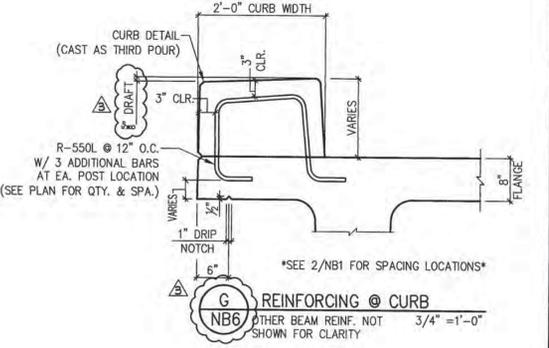
C DIMENSIONAL CURTAIN WALL SECTION NB6 3/4" = 1'-0"



DETAIL "A" - END OF NEXT BEAM (TYP.) (PRIOR TO CASTING CURTAIN WALL) 3/4" = 1'-0"



F REINFORCING @ CURB NB6 OTHER BEAM REINF. NOT SHOWN FOR CLARITY 3/4" = 1'-0"



G REINFORCING @ CURB NB6 OTHER BEAM REINF. NOT SHOWN FOR CLARITY 3/4" = 1'-0"

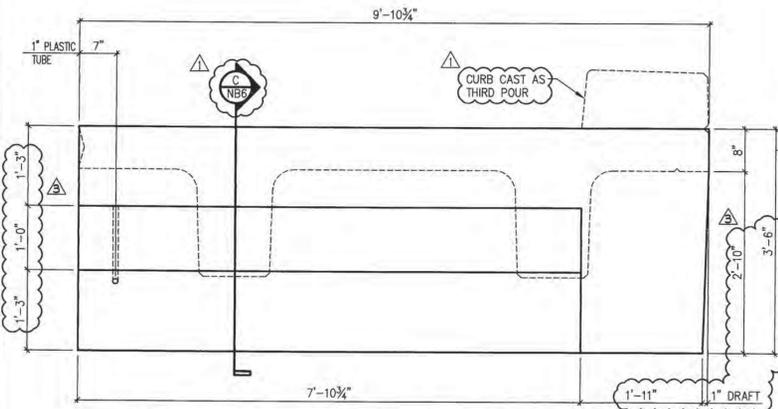
SHOP DRAWING REVIEW

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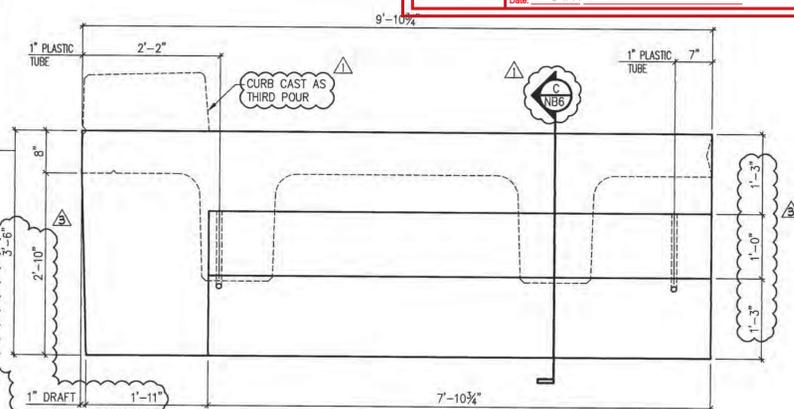
REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

CONNECTIONS OR COMMENTS MADE ON THE SHOP DRAWINGS DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS, SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES, AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

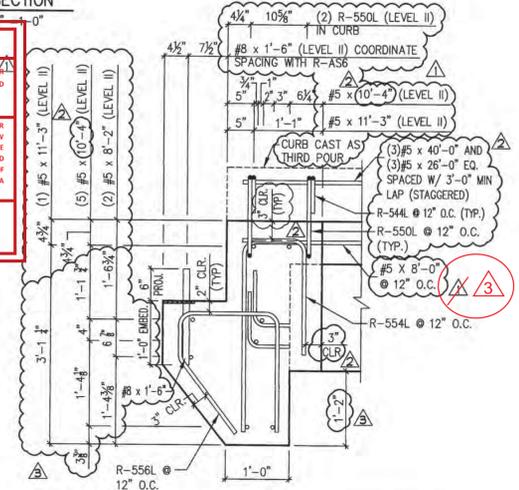
VHB Job Number: 57527
 Reviewed By: L. Chernivsky
 Date: 6-11-14



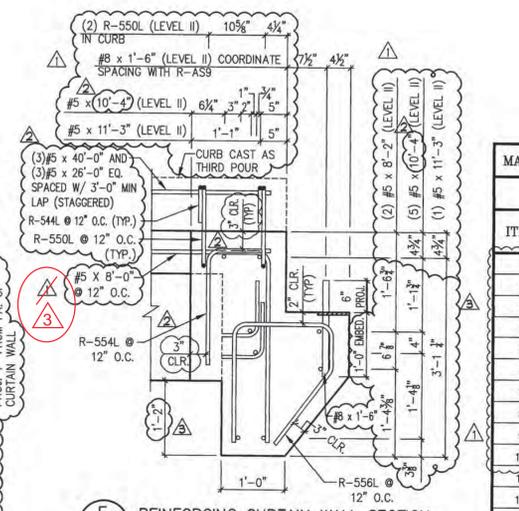
A DIMENSIONAL CURTAIN WALL ELEVATION @ ABUT. #1 NB6 3/4" = 1'-0"



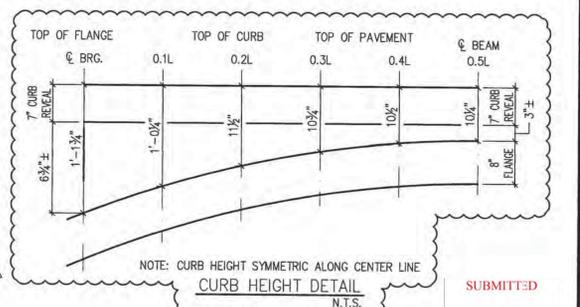
B DIMENSIONAL CURTAIN WALL ELEVATION @ ABUT. #2 NB6 3/4" = 1'-0"



D REINFORCING CURTAIN WALL SECTION NB6 3/4" = 1'-0"

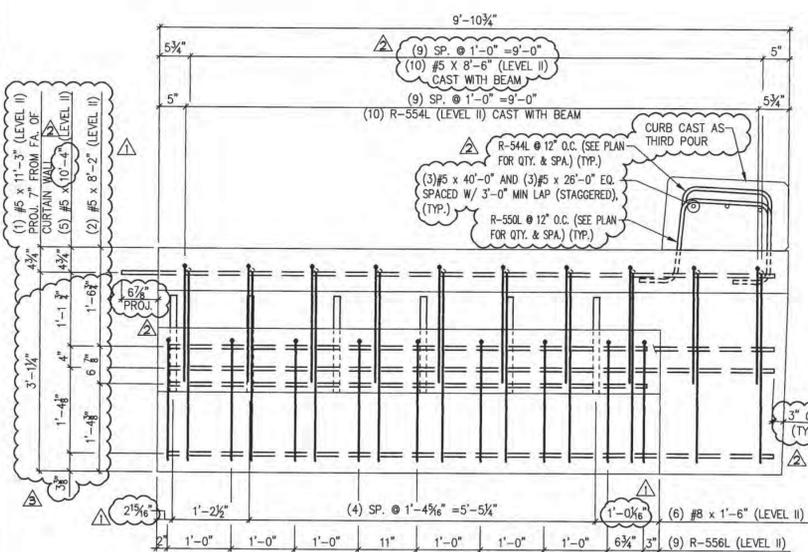


E REINFORCING CURTAIN WALL SECTION NB6 3/4" = 1'-0"

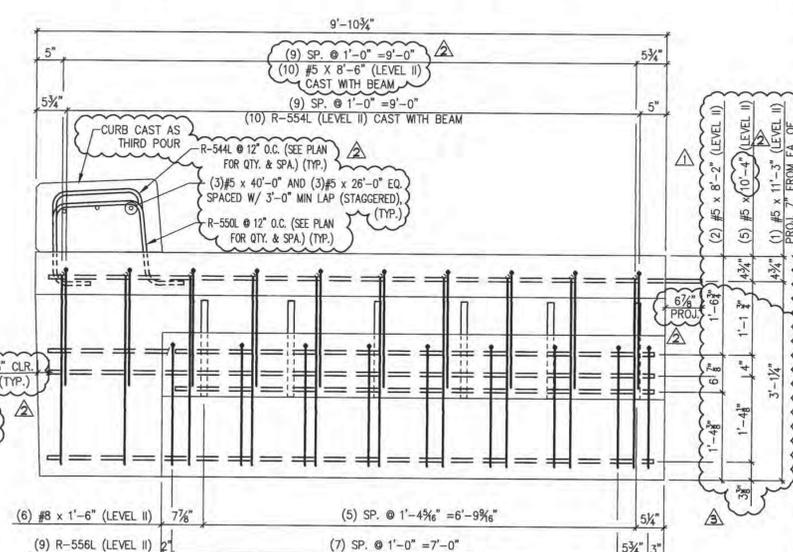


NOTE: CURB HEIGHT SYMMETRIC ALONG CENTER LINE N.T.S.

SUBMITTED JUN 6 20 14 J.P. CARRARA & SONS, INC. MOORESBURY, VT 05753



A REINFORCING CURTAIN WALL ELEVATION @ ABUT. #1 NB6 3/4" = 1'-0"



B REINFORCING CURTAIN WALL ELEVATION @ ABUT. #2 NB6 3/4" = 1'-0"

MARK:	R-NB7	QTY.:	1	WT.:	10.9 T	VOL.:	5.39 cy
MATERIAL LIST / CURTAIN WALLS							
ITEM	MARK	DESCRIPTION	QTY.				
1	R-554L	#5 BENT BAR (LEVEL II, DUAL COATED)	20				
2	R-556L	#5 BENT BAR (LEVEL II, DUAL COATED)	18				
3							
4							
5							
6		#5 x 8'-2" (LEVEL II, DUAL COATED)	4				
7		#5 x 10'-4" (LEVEL II, DUAL COATED)	10				
8		#5 x 11'-3" (LEVEL II, DUAL COATED)	2				
9							
10		#8 x 1'-6" (LEVEL II, DUAL COATED)	12				
11							
12		1" PLASTIC TUBE	2				
13							
14							

APPROVAL STAMP:

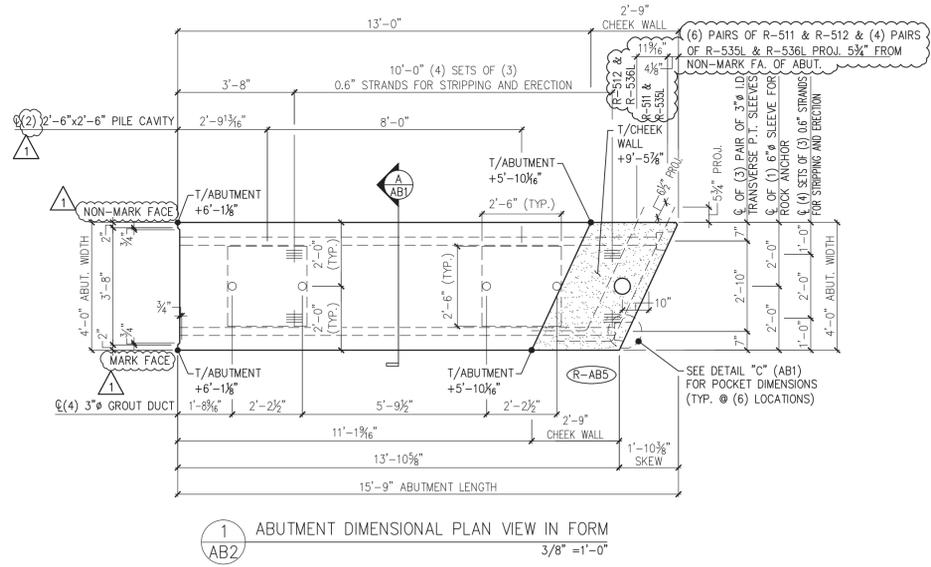
5/16/14 REVISE & RESUBMIT
 4/30/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

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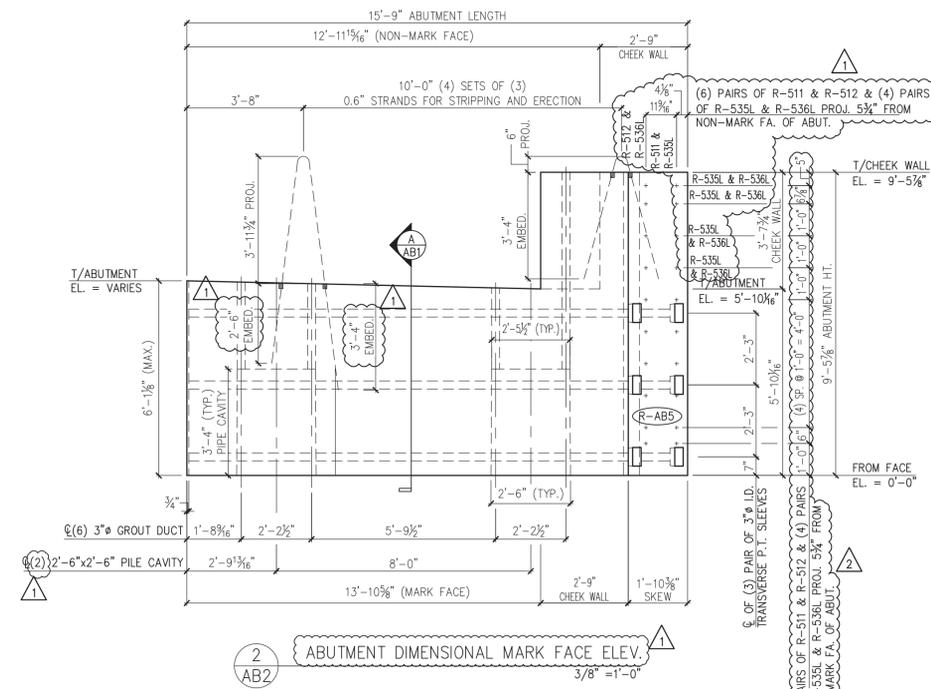
J.P. CARRARA & SONS INC. W.M. SCHULTZ CONSTRUCTION, INC.
 Precast & Prestress Manufacturer PO BOX 2620
 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-8361 Fax:(802)388-9010 BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR DATE: MAR. 14, 2014
 TOWN OF ROCHESTER VT ROUTE 73 (RURAL MAJOR COLLECTOR) SCALE: NOTED
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162(17) CHKD: DFTM:AA7/RW5 JJ/KJL
 JOB NO: 23419-013 DWG. NO: NB6

S:\Engineering Services\Carrara\14002 Rochester\BR 15 & 16\Production Drawings\AutoCAD Files\Bridge 16BR-16 - R-AB1.dwg, 5/21/2014 4:25:47 PM



1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEV.
3/8" = 1'-0"

Update Abutment 1 per attached revisions
Dated 6/11/14

SHOP DRAWING REVIEW

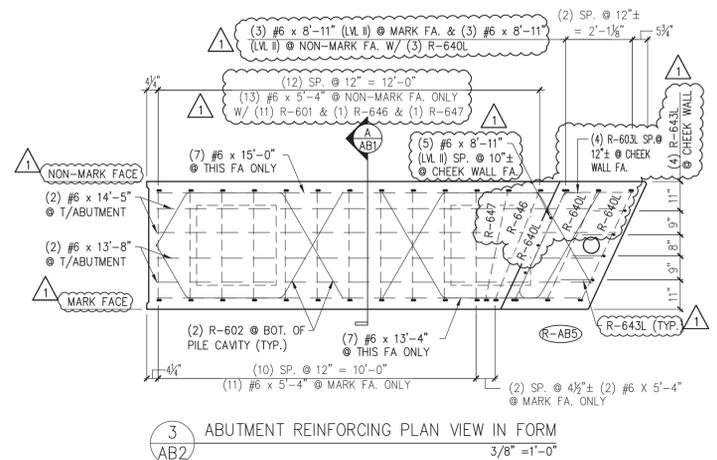
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REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

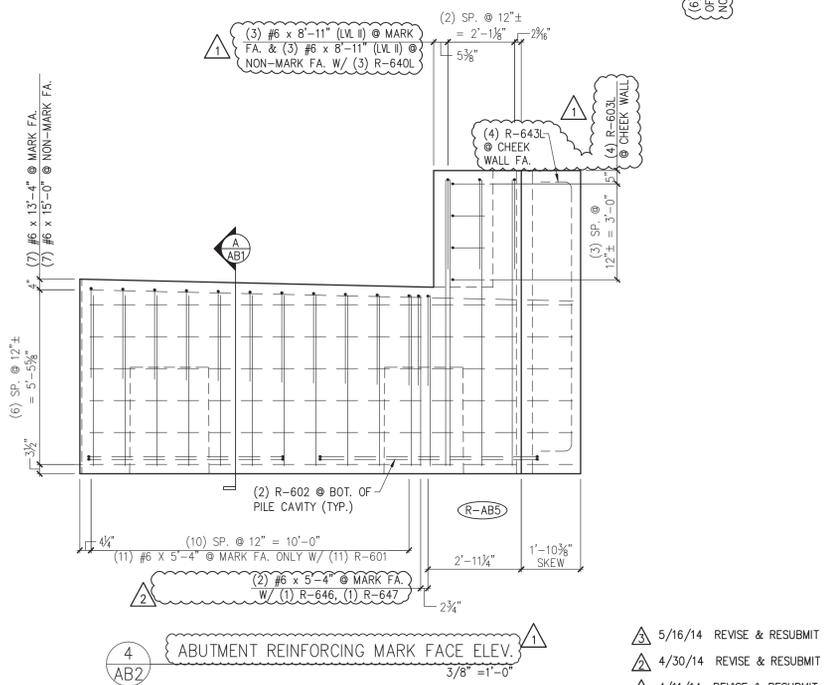
CORRECTIONS OR COMMENTS MADE ON THIS SHOP DRAWING DURING THIS REVIEW DO NOT RELIEVE CONTRACTOR FROM COMPLIANCE WITH REQUIREMENTS OF THE DRAWINGS AND SPECIFICATIONS. THIS CHECK IS ONLY FOR REVIEW OF GENERAL CONFORMANCE WITH THE DESIGN CONCEPT OF THE PROJECT AND GENERAL COMPLIANCE WITH THE INFORMATION GIVEN IN THE CONTRACT DOCUMENTS. THE CONTRACTOR IS RESPONSIBLE FOR: CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; SELECTING FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION; COORDINATING HIS WORK WITH THAT OF ALL OTHER TRADES; AND PERFORMING HIS WORK IN A SAFE AND SATISFACTORY MANNER.

VHB Job Number: 57527
Reviewed By: L. Chernycky
Date: 6-11-14

SUBMITTED
JUN 6 2014
J. P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753



3 ABUTMENT REINFORCING PLAN VIEW IN FORM
3/8" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEV.
3/8" = 1'-0"

- △ 5/16/14 REVISE & RESUBMIT
- △ 4/30/14 REVISE & RESUBMIT
- △ 4/11/14 REVISE & RESUBMIT

MARK:	R-AB5	QTY.:	1	WT.:	26.3 T	VOL.:	12.99 cy
ITEM	MARK	MATERIAL LIST / ABUTMENT		QTY.			
1	R-511	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	6	1			
2	R-512	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	6	6			
3	R-535L	#5 BENT BAR (LEVEL II - DUAL COATED)	4	4			
4	R-536L	#5 BENT BAR (LEVEL II - DUAL COATED)	4	4			
5							
6	R-601	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	11	11			
7	R-602	#6 BENT BAR (LEVEL II - BLACK REINFORCEMENT)	4	4			
8	R-603L	#6 BENT BAR (LEVEL II - DUAL COATED)	4	1			
9	R-640L	#6 BENT BAR (LEVEL II - DUAL COATED)	3	3			
10	R-643L	#6 BENT BAR (LEVEL II - DUAL COATED)	4	4			
11	R-645	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	3	3			
12	R-646	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1	1			
13	R-647	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1	1			
14							
15							
16		#6 x 5'-4" (LEVEL I - BLACK REINFORCEMENT)	26	26			
17		#6 x 8'-11" (LEVEL II - DUAL COATED)	11	11			
18		#6 x 13'-4" (LEVEL I - BLACK REINFORCEMENT)	7	7			
19		#6 x 13'-8" (LEVEL I - BLACK REINFORCEMENT)	2	2			
20		#6 x 14'-5" (LEVEL I - BLACK REINFORCEMENT)	2	2			
21		#6 x 15'-0" (LEVEL I - BLACK REINFORCEMENT)	7	7			
22							
23		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4	4			

Vermont Agency of Transportation
RECEIVED
ON: **June 9, 2014**
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 06/11/2014

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Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010 BALLSTON SPA, NY 12020

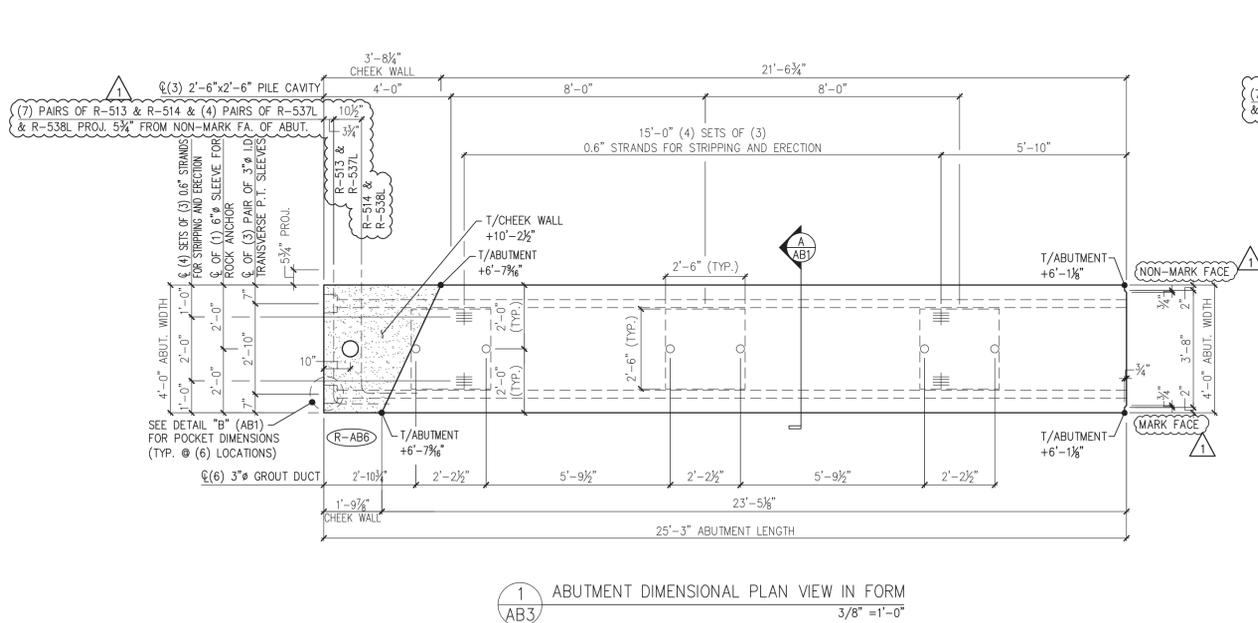
STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

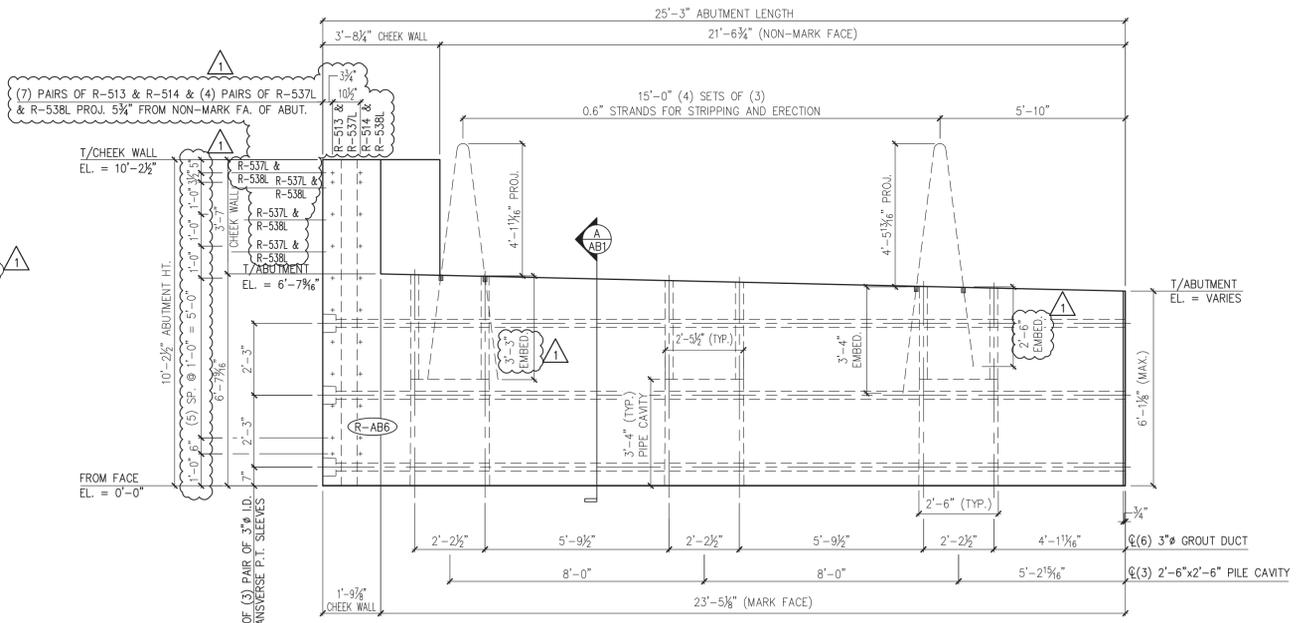
PRECAST ABUTMENT DETAILS

DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM: AAT/RWS
JJJ/KLT
JOB NO: 23419-013
DWG. NO: AB2

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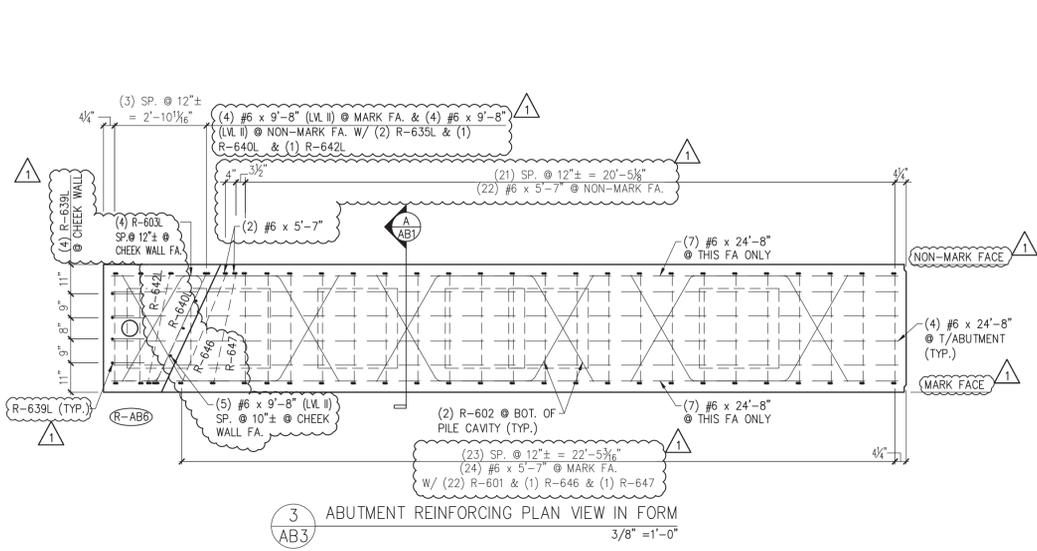
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"



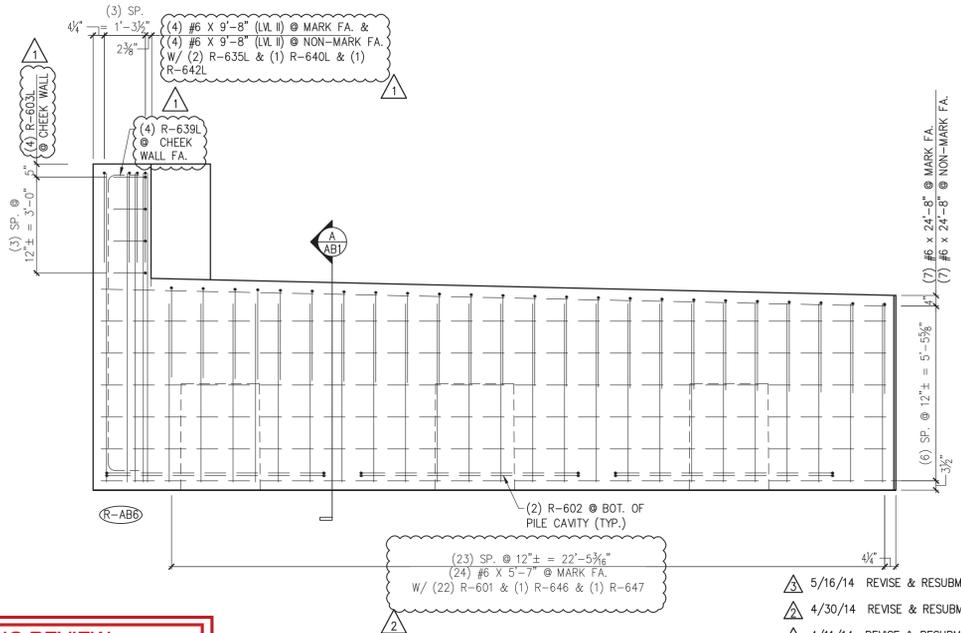
2 ABUTMENT DIMENSIONAL MARK FACE ELEV.
3/8" = 1'-0"

Update Abutment 1
per attached revisions
Dated 6/11/14

SUBMITTED
JUN 6 20 14
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753



3 ABUTMENT REINFORCING PLAN VIEW IN FORM
3/8" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEV.
3/8" = 1'-0"

MATERIAL LIST / ABUTMENT				
ITEM	MARK	DESCRIPTION	QTY.	
1	R-513	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	7	
2	R-514	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	7	
3	R-537L	#5 BENT BAR (LEVEL II - DUAL COATED)	4	
4	R-538L	#5 BENT BAR (LEVEL II - DUAL COATED)	4	
5				
6	R-601	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	24	
7	R-602	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	6	
8	R-646	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1	
9	R-603L	#6 BENT BAR (LEVEL II - DUAL COATED)	4	
10	R-635L	#6 BENT BAR (LEVEL II - DUAL COATED)	2	
11	R-639L	#6 BENT BAR (LEVEL II - DUAL COATED)	4	
12	R-640L	#6 BENT BAR (LEVEL II - DUAL COATED)	1	
13	R-642L	#6 BENT BAR (LEVEL II - DUAL COATED)	1	
14	R-645	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1	
15	R-646	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1	
16	R-647	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1	
17				
18				
19		#6 x 5'-7" (LEVEL I - BLACK REINFORCEMENT)	48	
20		#6 x 9'-8" (LEVEL II - DUAL COATED)	13	
21		#6 x 24'-8" (LEVEL I - BLACK REINFORCEMENT)	18	
22				
23		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4	

Vermont Agency of Transportation
RECEIVED
ON: **June 9, 2014**
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 06/11/2014

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VHB
Job Number: 07527
Reviewed By: L. Chernivsky
Date: 6-11-14

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4/30/14 REVISE & RESUBMIT
4/11/14 REVISE & RESUBMIT

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

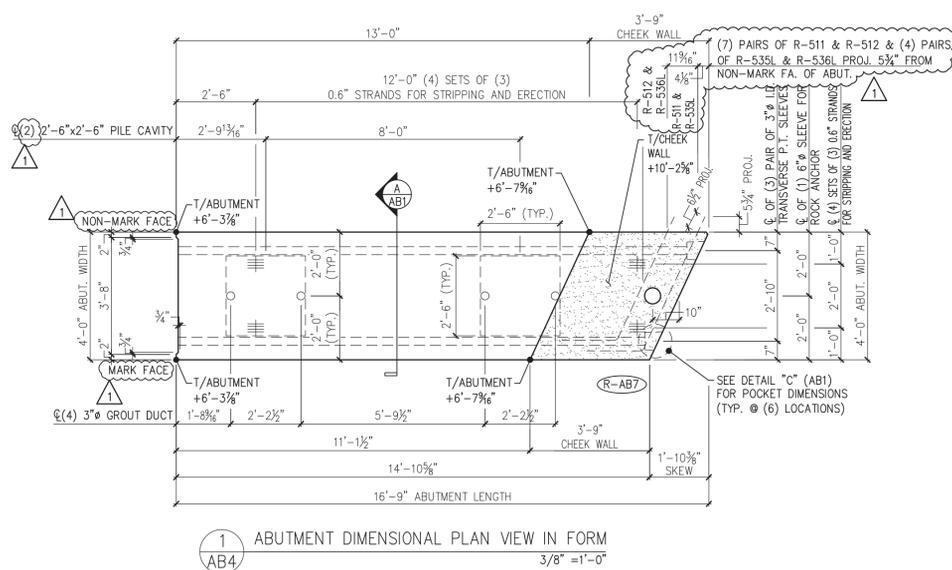
W.M. SCHULTZ CONSTRUCTION, INC.
PO BOX 2650
BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

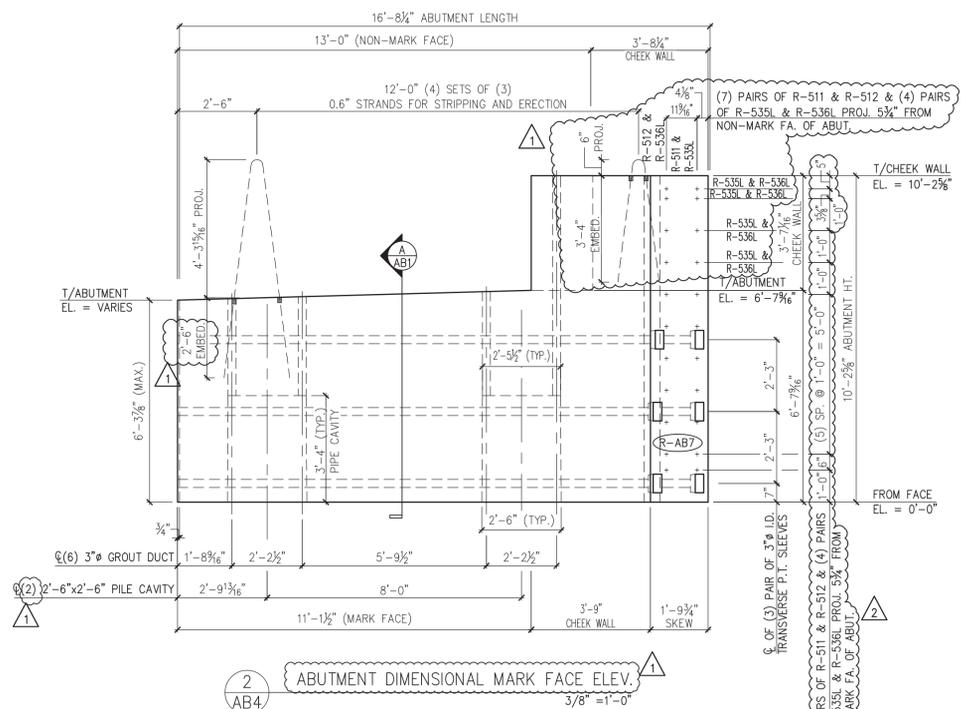
TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM/AAT/RWS
JOB NO: 23419-013
DWG. NO: AB3

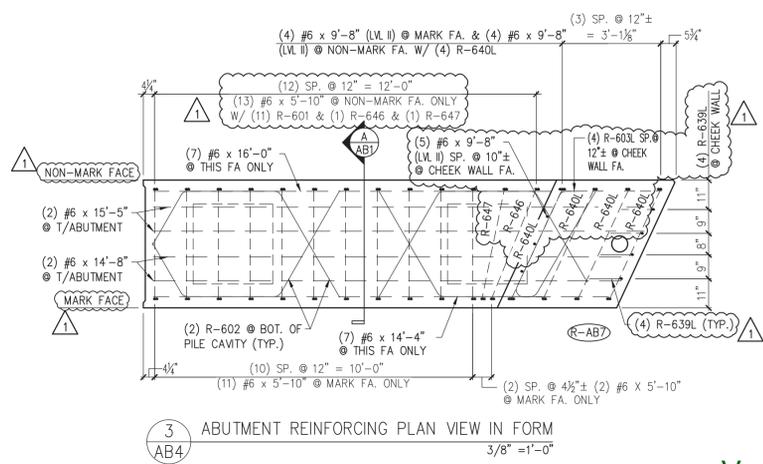
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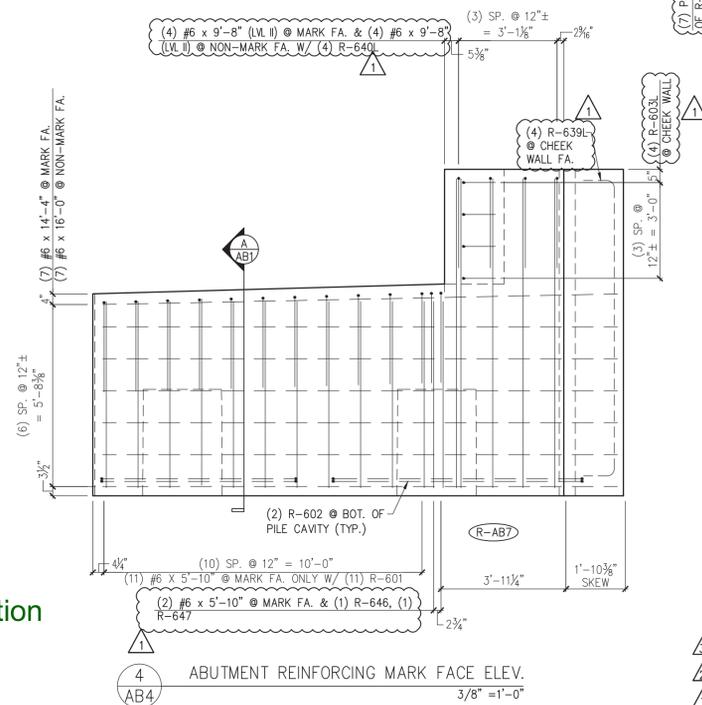
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEV.
3/8" = 1'-0"



3 ABUTMENT REINFORCING PLAN VIEW IN FORM
3/8" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEV.
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Job Number: 97527
Reviewed By: L. Demerby
Date: 6-11-14

SUBMITTED
JUN 6 20 14
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

MARK: R-AB7		QTY.: 1	WT.: 31.7 T	VOL.: 15.65 cy
MATERIAL LIST / ABUTMENT				
ITEM	MARK	DESCRIPTION		QTY.
1	R-511	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)		7
2	R-512	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)		7
3	R-535L	#5 BENT BAR (LEVEL II - DUAL COATED)		4
4	R-536L	#5 BENT BAR (LEVEL II - DUAL COATED)		4
6	R-601	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)		11
7	R-602	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)		4
8	R-603L	#6 BENT BAR (LEVEL II - DUAL COATED)		4
9	R-639L	#6 BENT BAR (LEVEL II - DUAL COATED)		4
10	R-640L	#6 BENT BAR (LEVEL II - DUAL COATED)		4
11	R-645	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)		4
12	R-646	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)		1
13	R-647	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)		1
14				
15		#6 x 5'-10" (LEVEL I - BLACK REINFORCEMENT)		26
16		#6 x 9'-8" (LEVEL II - DUAL COATED)		13
17		#6 x 14'-4" (LEVEL I - BLACK REINFORCEMENT)		7
18		#6 x 14'-8" (LEVEL I - BLACK REINFORCEMENT)		2
19		#6 x 15'-5" (LEVEL I - BLACK REINFORCEMENT)		2
20		#6 x 16'-0" (LEVEL I - BLACK REINFORCEMENT)		7

- △ 5/16/14 REVISE & RESUBMIT
- △ 4/30/14 REVISE & RESUBMIT
- △ 4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:

J.P. CARRARA & SONS INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010

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PO BOX 2620
BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

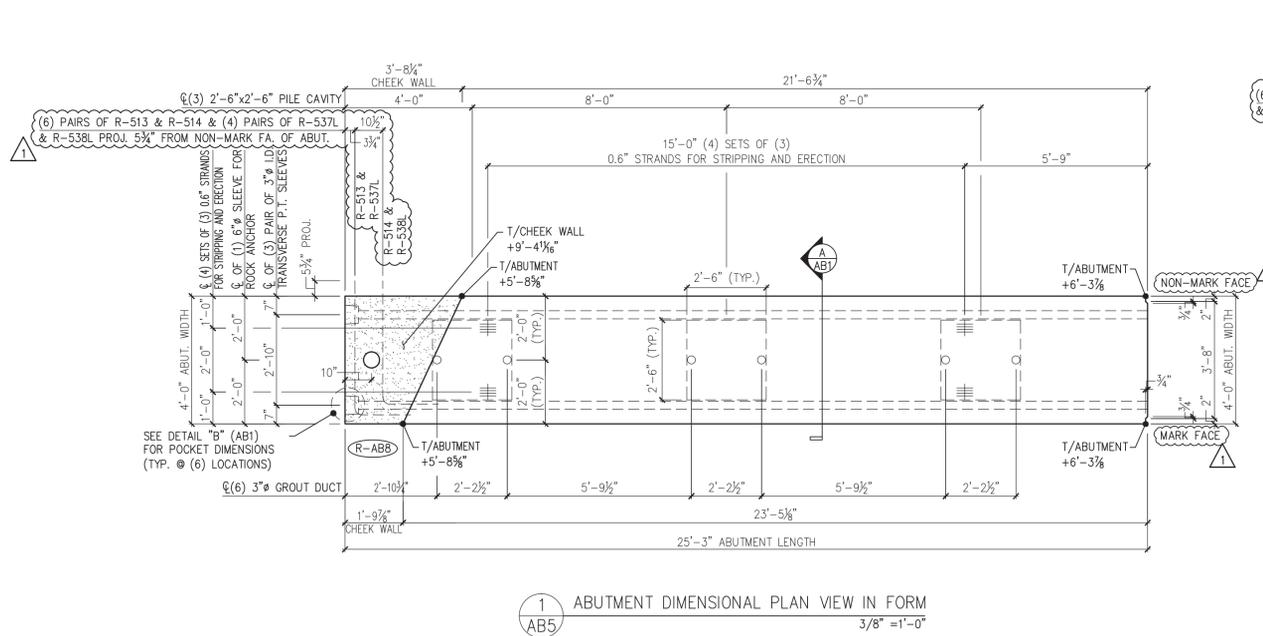
DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM/AAT/RWS
JJ/KLT
JOB NO: 23419-013
DWG. NO: AB4

PRECAST ABUTMENT DETAILS

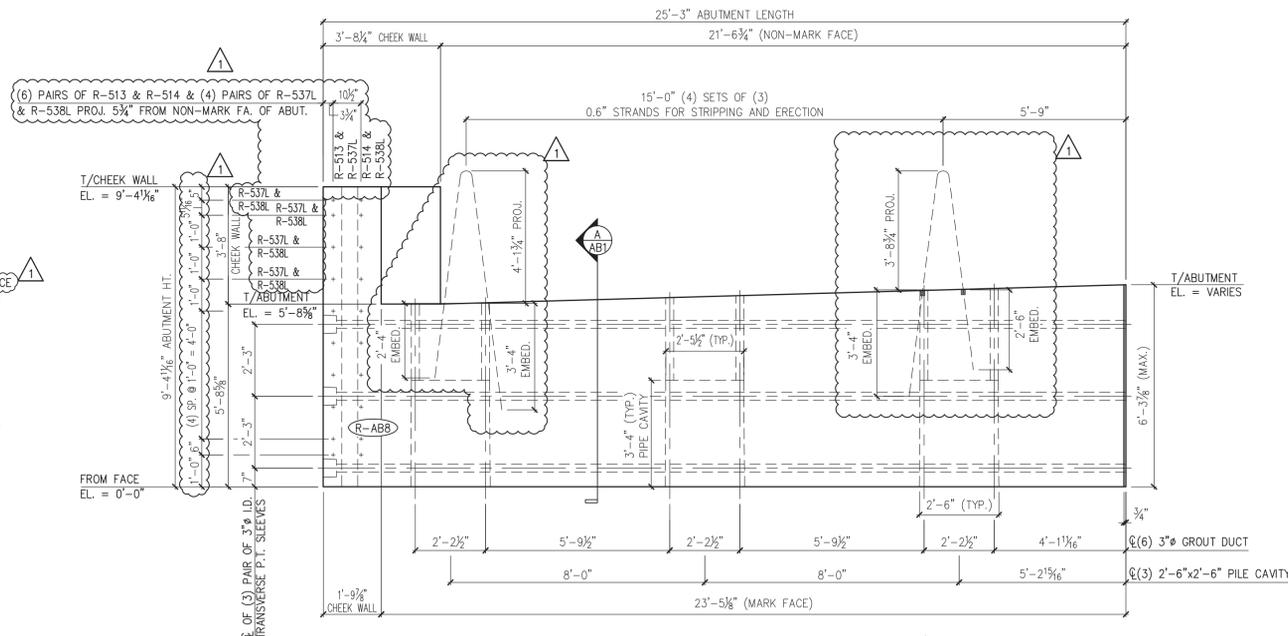
Vermont Agency of Transportation
RECEIVED
ON: June 9, 2014
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 06/11/2014

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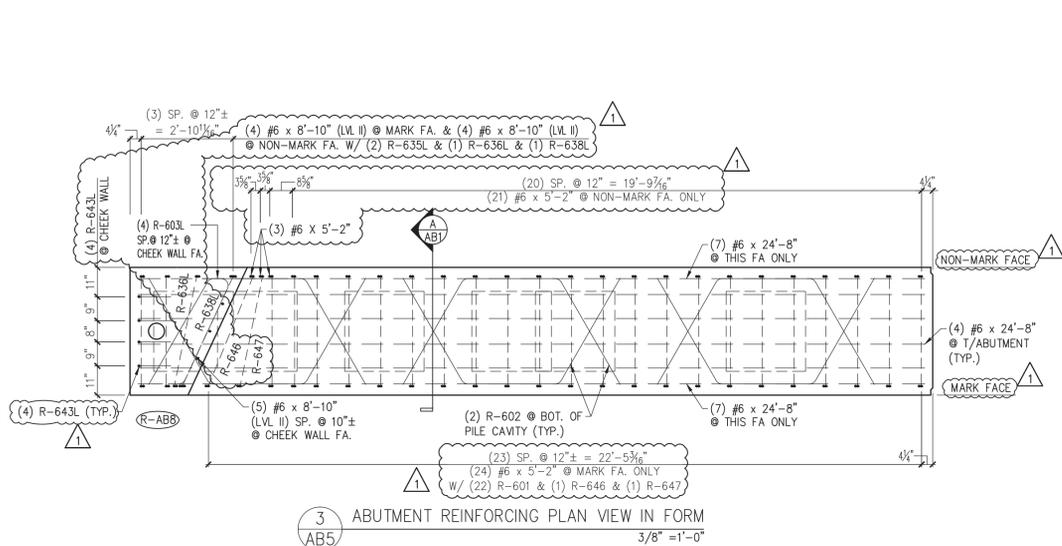
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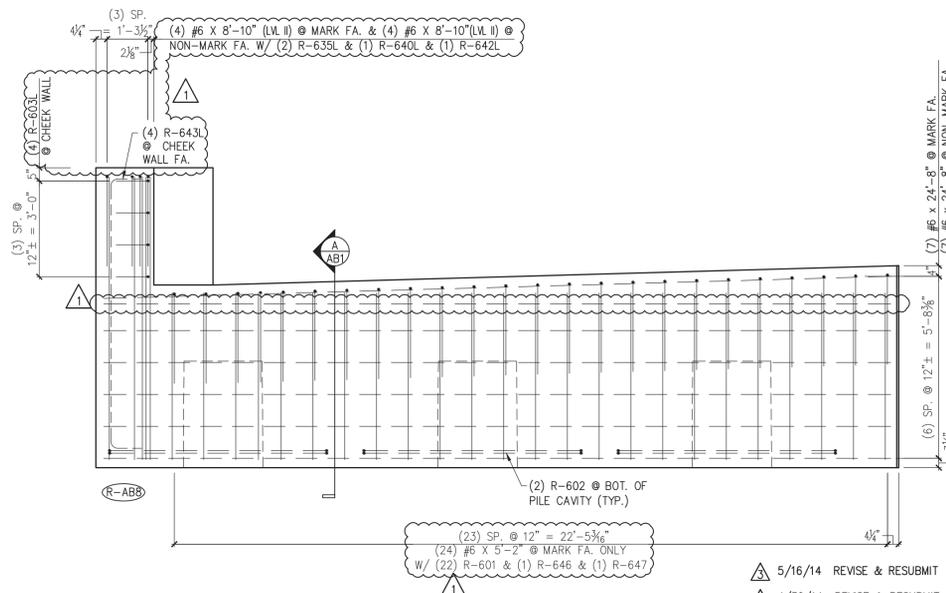
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"



2 ABUTMENT DIMENSIONAL MARK FACE ELEV.
3/8" = 1'-0"



3 ABUTMENT REINFORCING PLAN VIEW IN FORM
3/8" = 1'-0"



4 ABUTMENT REINFORCING MARK FACE ELEV.
3/8" = 1'-0"

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	R-513	#5 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	6
2	R-514	#5 BENT BAR (LEVEL II - BLACK REINFORCEMENT)	6
3	R-537L	#5 BENT BAR (LEVEL II - DUAL COATED)	4
4	R-538L	#5 BENT BAR (LEVEL II - DUAL COATED)	4
5			
6	R-601	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	22
7	R-602	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	6
8	R-603L	#6 BENT BAR (LEVEL II - DUAL COATED)	4
8	R-635L	#6 BENT BAR (LEVEL II - DUAL COATED)	2
8	R-636L	#6 BENT BAR (LEVEL II - DUAL COATED)	1
8	R-638L	#6 BENT BAR (LEVEL II - DUAL COATED)	1
9	R-640L	#6 BENT BAR (LEVEL II - DUAL COATED)	4
10	R-642L	#6 BENT BAR (LEVEL II - DUAL COATED)	1
11	R-643L	#6 BENT BAR (LEVEL II - DUAL COATED)	1
12	R-645	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1
13	R-646	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1
14	R-647	#6 BENT BAR (LEVEL I - BLACK REINFORCEMENT)	1
15			
16		#6 x 5'-2" (LEVEL I - BLACK REINFORCEMENT)	48
17		#6 x 8'-10" (LEVEL II - DUAL COATED)	13
18		#6 x 24'-8" (LEVEL I - BLACK REINFORCEMENT)	18
19			
20		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4

Vermont Agency of Transportation
RECEIVED
 ON: **June 9, 2014**
 and Checked for
CONFORMANCE
 BY: **Jennifer Fitch** DATE: **06/11/2014**

SHOP DRAWING REVIEW

REVIEWED AS REQUIRED BY THE CONSTRUCTION CONTRACT DOCUMENTS AND APPROVED, BUT ONLY FOR CONFORMANCE TO THE DESIGN CONCEPT OF THE WORK, AND SUBJECT TO FURTHER LIMITATIONS AND REQUIREMENTS CONTAINED IN THE CONSTRUCTION CONTRACT DOCUMENTS.

REJECTED REVISE AND RESUBMIT FURNISH AS CORRECTED

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VHB Job Number: 57527
 Reviewed By: L. Olenyko
 Date: 6-11-14

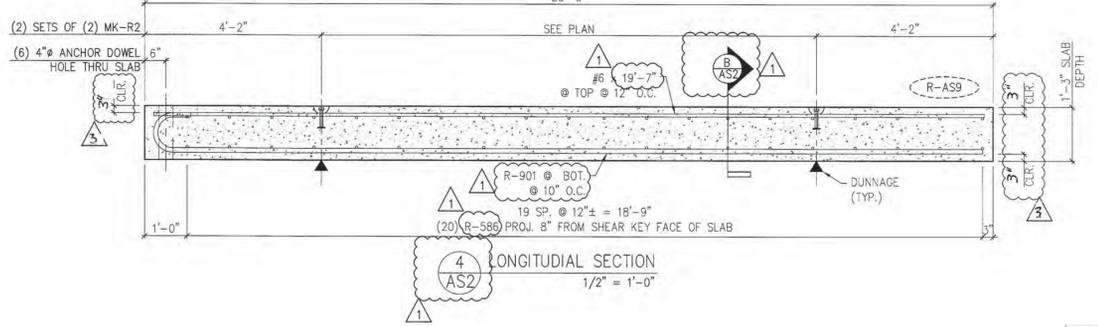
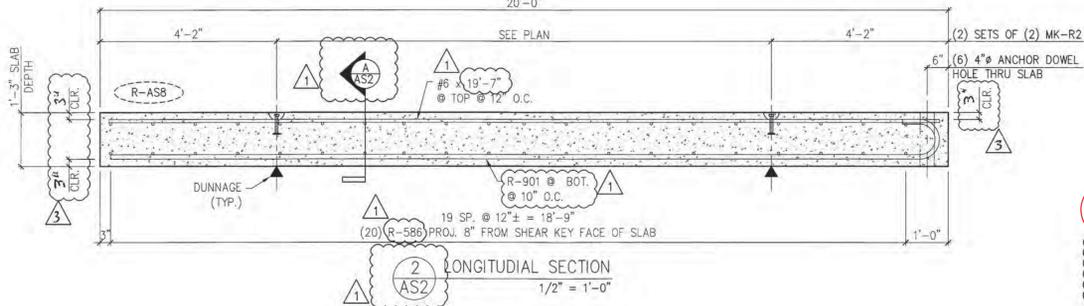
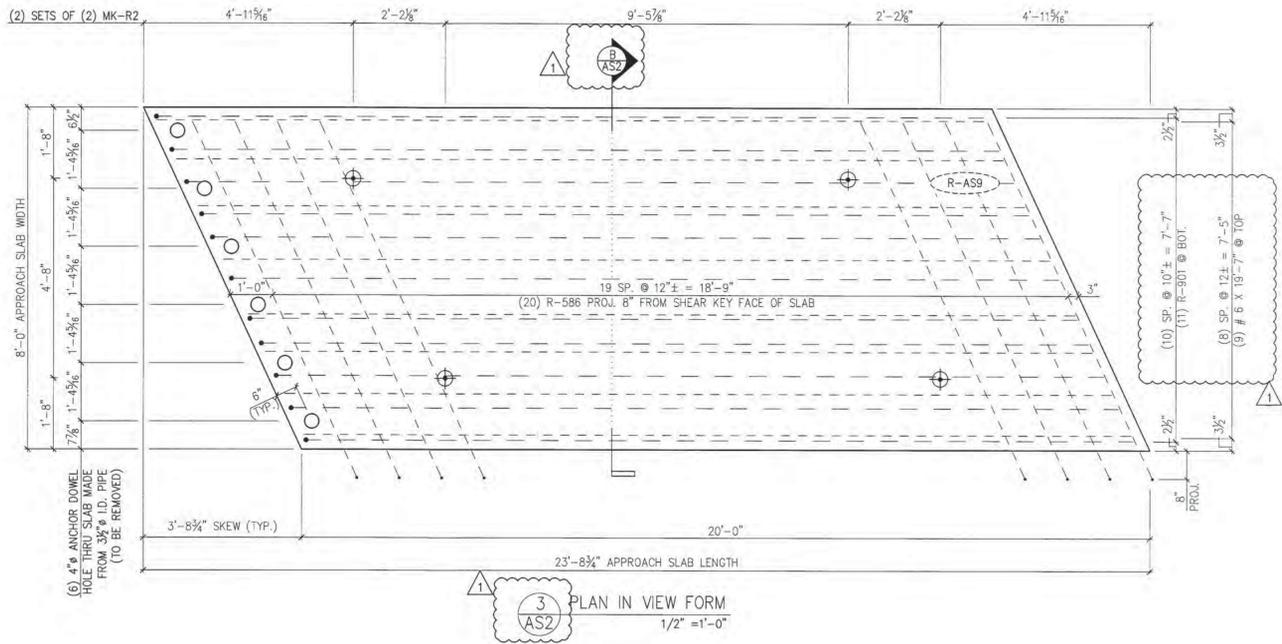
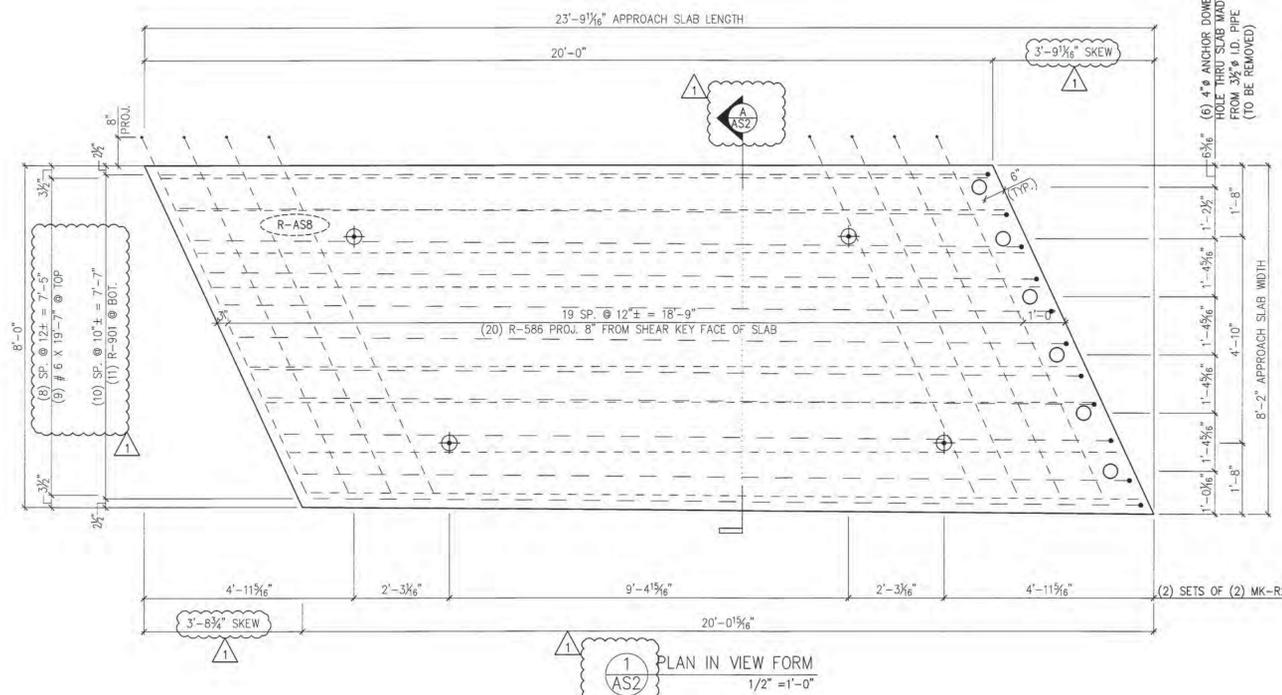
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 4/30/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

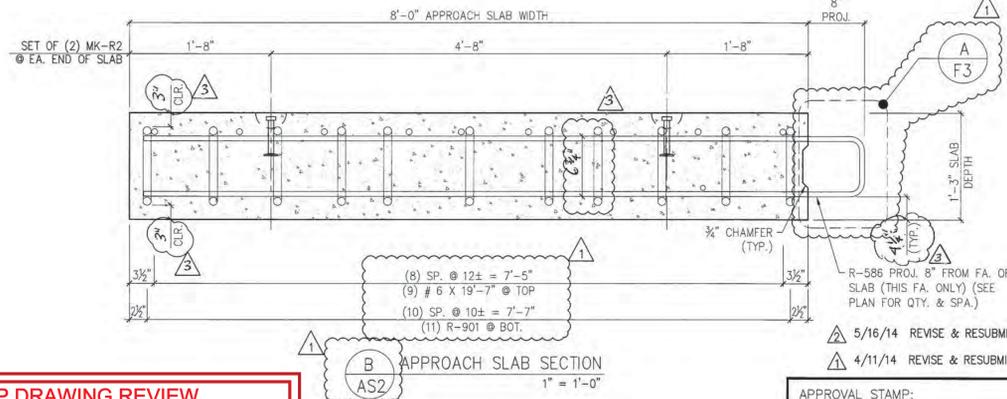
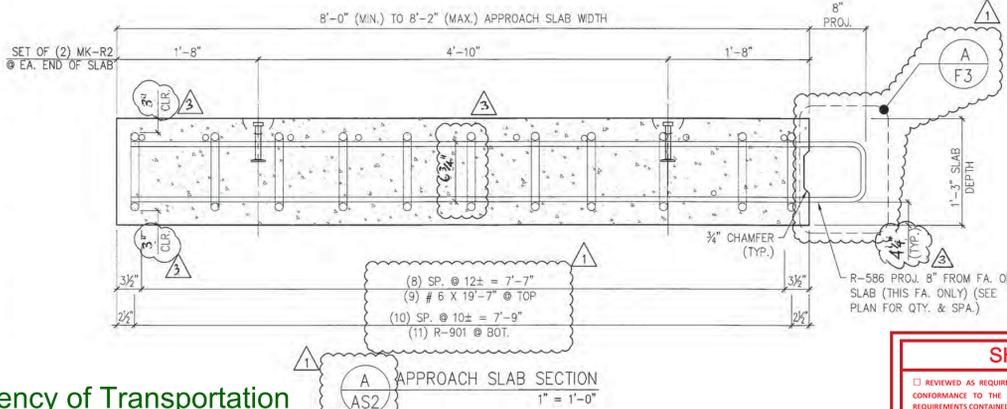
J.P. CARRARA & SONS INC. W.M. SCHULTZ CONSTRUCTION, INC.
 Precast & Prestress Manufacturer P.O. BOX 2650
 2464 CASH STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010 BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR DATE: MAR. 14, 2014
 TOWN OF ROCHESTER VT ROUTE 73 (RURAL MAJOR COLLECTOR) CHKD: DFTM/AAT/RWS
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17) JOB NO: 23419-013
 PRECAST ABUTMENT DETAILS DWG. NO: AB5

SUBMITTED
 JUN 6 20 14
 J.P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753



NOTE: FABRICATOR SHALL ROTATE THE #9 BARS TO PROVIDE THE REQUIRED 3" CLEARANCE



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MIDDLEBURY, VT 05753

MARK:	R-AS8	QTY.:	1	WT.:	15.3 T	VOL.:	7.48 cy
MARK:	R-AS9	QTY.:	1	WT.:	15.0 T	VOL.:	7.41 cy
MATERIAL LIST / APPROACH SLAB							
ITEM	MARK	DESCRIPTION	QTY. / WING WALL				
			R-AS8	R-AS9			
1							
2	R-586	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	20	20			
3							
4		#6 X 19'-7" (LEVEL I, BLACK REINFORCEMENT)	9	9			
5							
6	R-901	#9 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	11	11			
7							
8	MK-R2	8T x 10" SWIFT LIFT LIFTER	4	4			

SHOP DRAWING REVIEW

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VHB
Job Number: 57527
Reviewed By: L. Chervinsky
Date: 6-11-14

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W.M. SCHULTZ CONSTRUCTION, INC.
PO BOX 2620
BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF WINDSOR

TOWN OF ROCHESTER
VT ROUTE 73 (RURAL MAJOR COLLECTOR)
BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
SCALE: NOTED
CHKD: DFTM: AAT/RWS
JJJ/KLT
JOB NO: 23419-013
DWG. NO: AS2

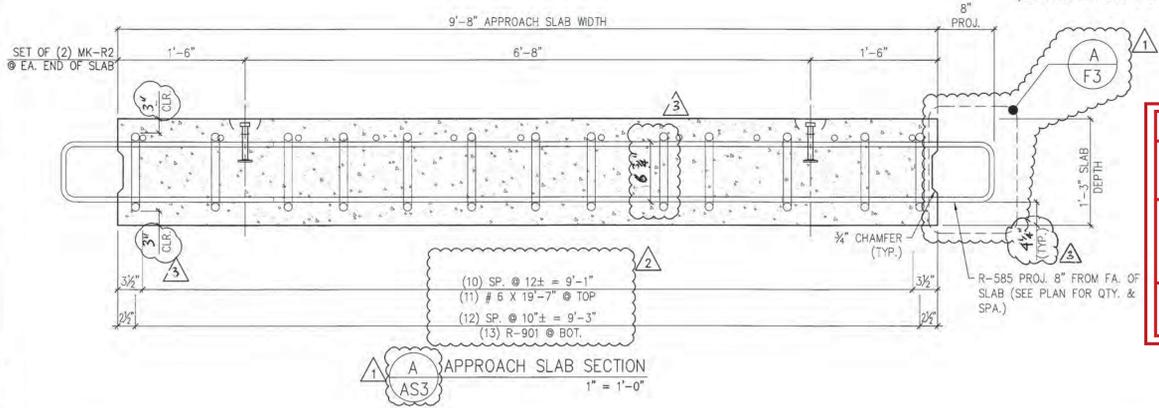
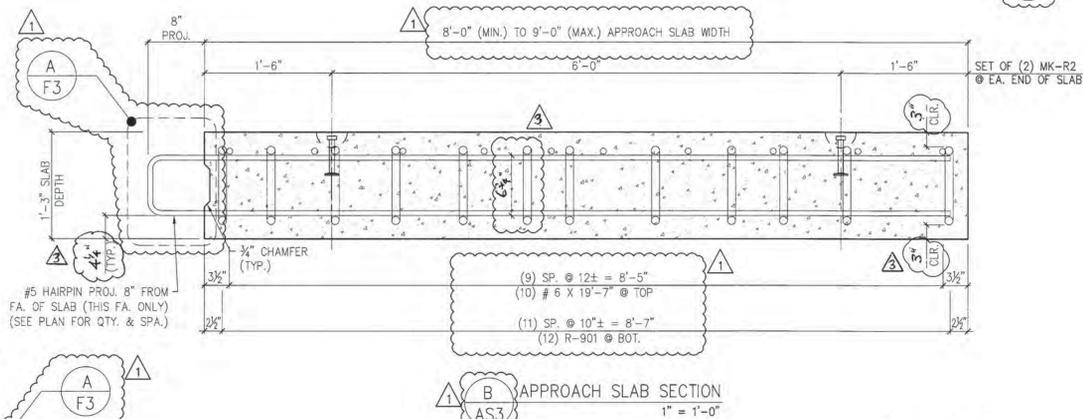
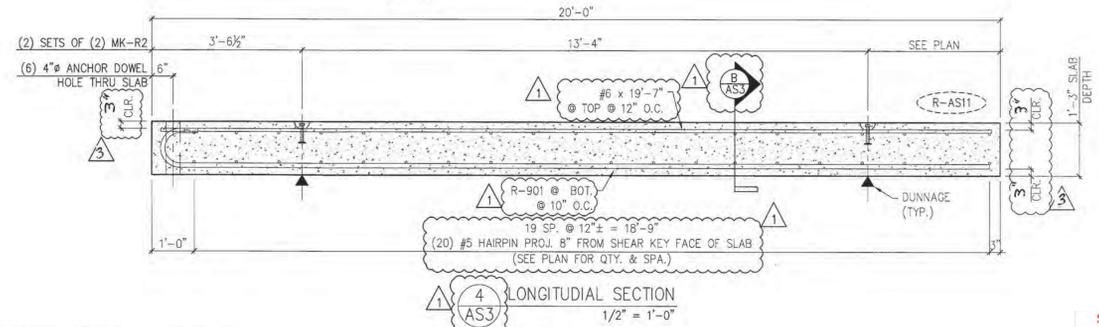
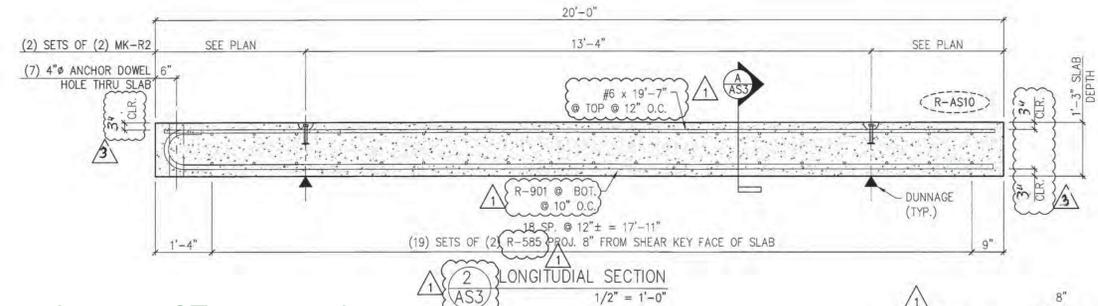
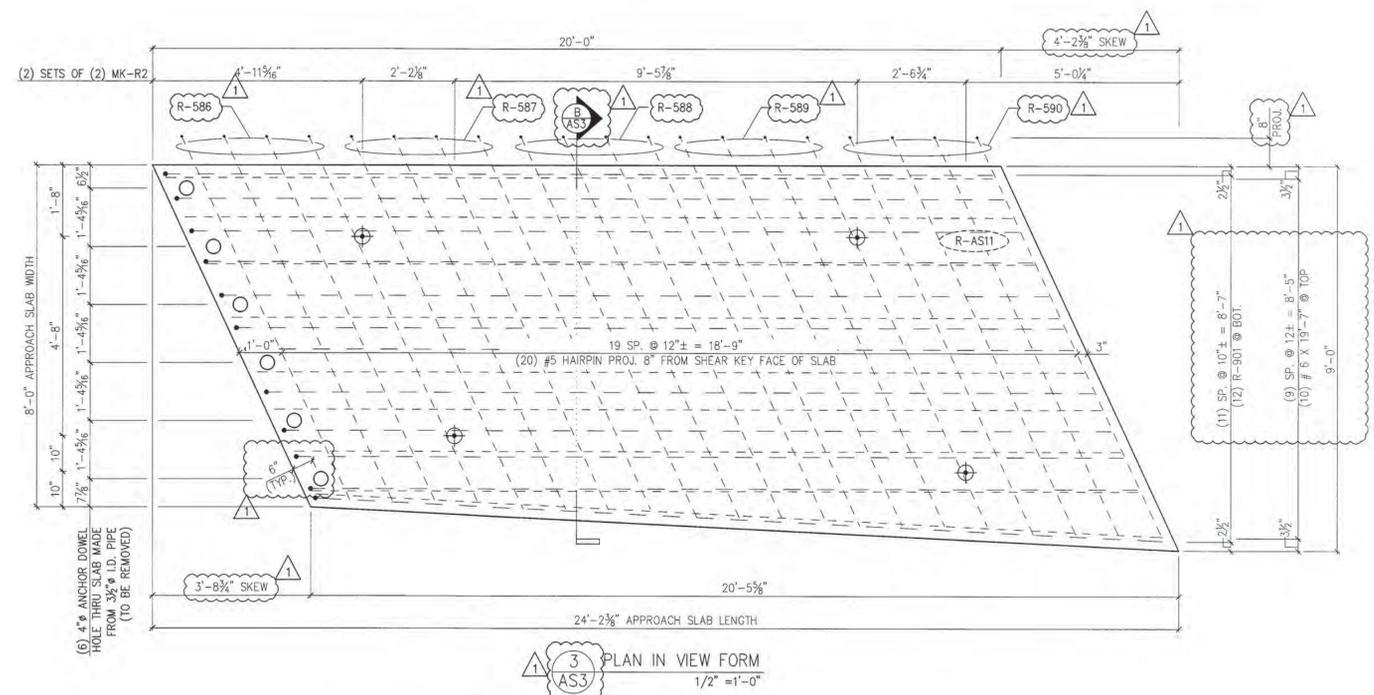
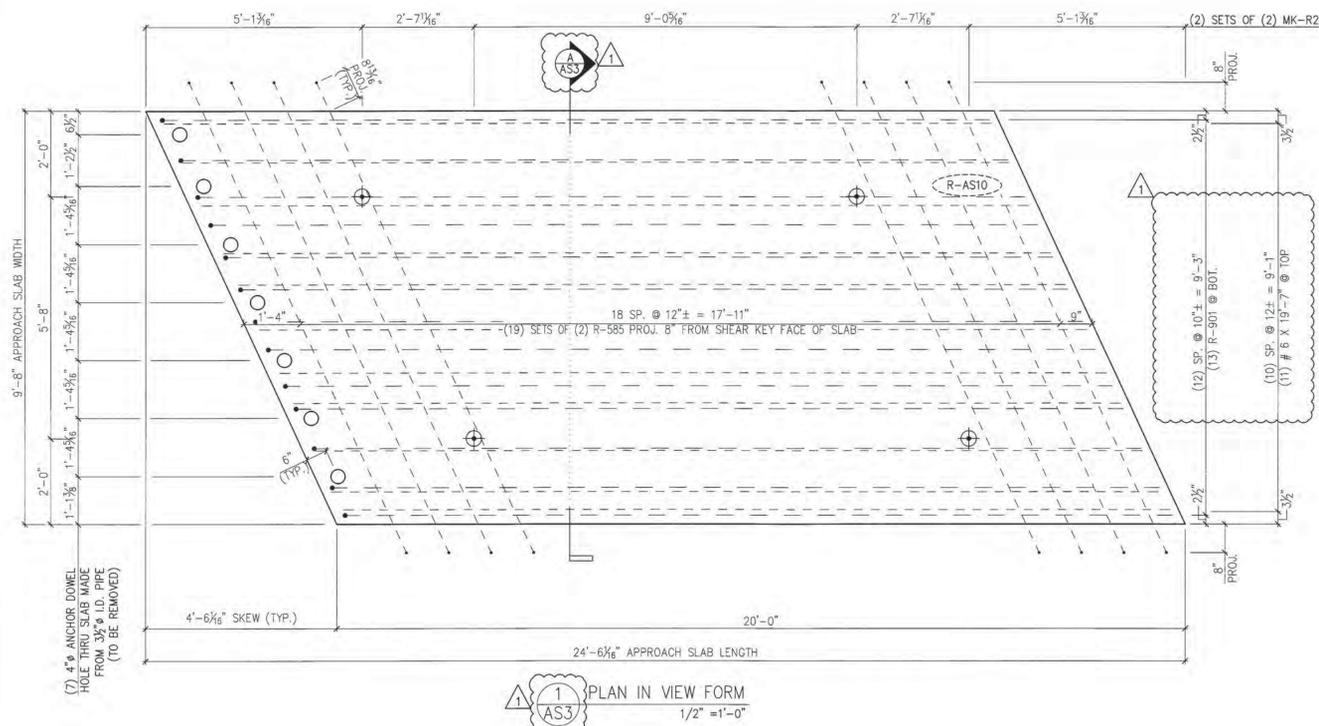
PRECAST APPROACH SLAB DETAILS

Vermont Agency of Transportation
RECEIVED
ON: June 9, 2014
and Checked for
CONFORMANCE
BY: Jennifer Fitch DATE: 06/11/2014

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RECEIVED
 ON: **June 9, 2014**
 and Checked for
CONFORMANCE
 BY: **Jennifer Fitch** DATE: **06/11/2014**



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Job Number: 97927
 Reviewed By: L. Chervinsky
 Date: 6-11-14

5/16/14 REVISE & RESUBMIT
 4/30/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

APPROVAL STAMP:

5/27/14 REVISE & RESUBMIT

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 JUN 6 2014
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 MIDDLEBURY, VT 05753

MARK:	R-AS10	QTY.:	1	WT.:	18.2 T	VOL.:	8.95 cy
MARK:	R-AS11	QTY.:	1	WT.:	16.0 T	VOL.:	7.87 cy

MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY./WING WALL
			R-AS10
1	R-585	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	10
2	R-586	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	0
3	R-587	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	0
4	R-588	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	0
5	R-589	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	0
6	R-590	#5 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	0
7			
8			
8		#6 x 19'-7" (LEVEL I, BLACK REINFORCEMENT)	11
8	R-901	#9 BENT BAR (LEVEL I, BLACK REINFORCEMENT)	13
8	MK-R2	8T x 10" SWIFT LIFT LIFTER	4

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 Precast & Prestress Manufacturer
 2464 CASE ST., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010

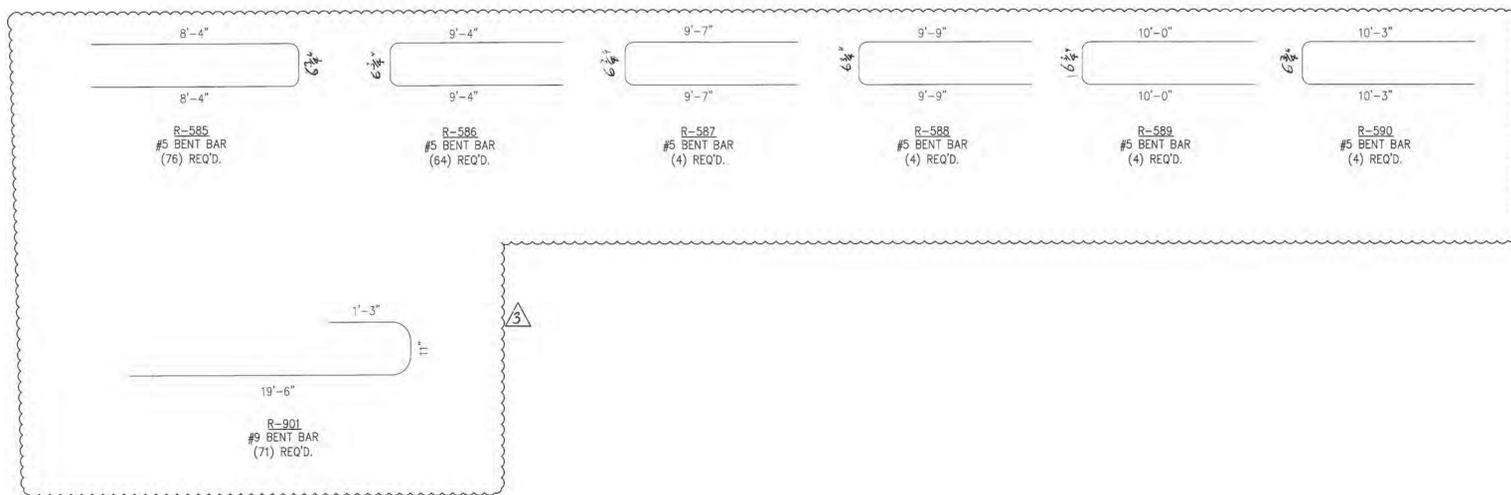
W.M. SCHULTZ CONSTRUCTION, INC.
 PO BOX 2620
 BALLSTON SPA, NY 12020

STATE OF VERMONT AGENCY OF TRANSPORTATION
 COUNTY OF WINDSOR

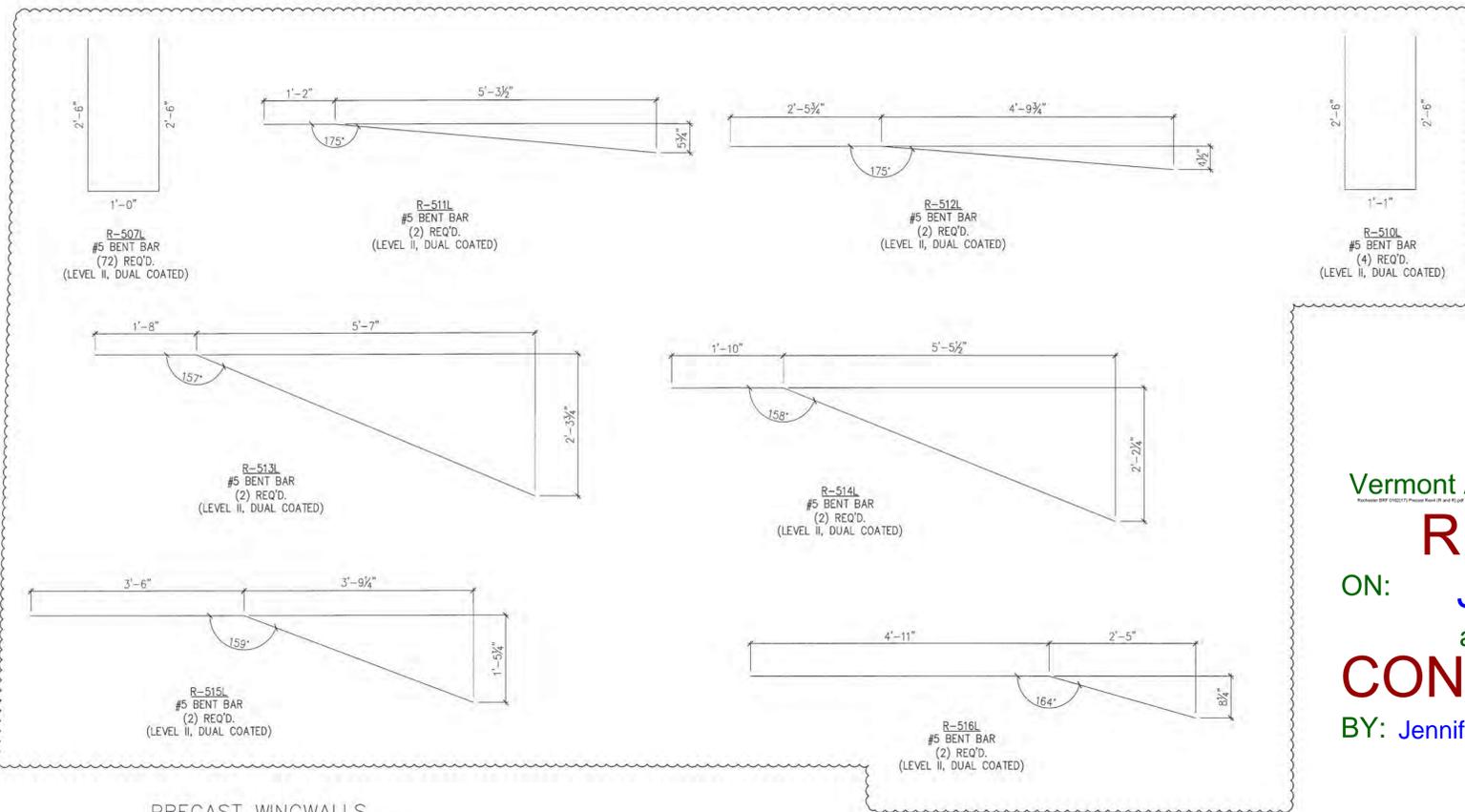
TOWN OF ROCHESTER
 VT ROUTE 73 (RURAL MAJOR COLLECTOR)
 BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)

DATE: MAR. 14, 2014
 SCALE: NOTED
 CHKD: DFTM, AAT/RWS
 JOB NO: 23419-013
 DWG. NO: AS3

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PRECAST APPROACH SLABS



PRECAST WINGWALLS

MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1				
2	2	57	#6 x 19'-7" (LEVEL I, BLACK REINFORCEMENT)	
3				
4				
5				
6	MK-R2	24	BT x 10" SWIFT LIFT LIFTER	
7				
8				
9				
10		8	#5 x 6'-7" (LEVEL II, DUAL COATED)	
11		23	#5 x 7'-2" (LEVEL II, DUAL COATED)	
12		34	#5 x 7'-3" (LEVEL II, DUAL COATED)	
13		23	#5 x 7'-6" (LEVEL II, DUAL COATED)	
14		6	#5 x 7'-10" (LEVEL II, DUAL COATED)	
15		6	#5 x 8'-11" (LEVEL II, DUAL COATED)	
16		18	#5 x 9'-1" (LEVEL II, DUAL COATED)	
17		18	#5 x 9'-3" (LEVEL II, DUAL COATED)	
18		18	#5 x 9'-9" (LEVEL II, DUAL COATED)	
19				
20				
21				
22	MK-R3	84	NMB SPLICE SLEEVE #5 U-X(PG) (EPOXY COATED)	
23	MK-R4	16	4T x 9 1/2" SWIFT LIFT LIFTER	
24	MK-R5	8	20T x 19 3/4" SWIFT LIFT LIFTER	
25				

Vermont Agency of Transportation

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ON: **June 9, 2014**

and Checked for

CONFORMANCE

BY: Jennifer Fitch DATE: 06/11/2014

SHOP DRAWING REVIEW

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VHB Job Number: 57527
 Reviewed By: L. Chernivsky
 Date: 6-11-14

SUBMITTED

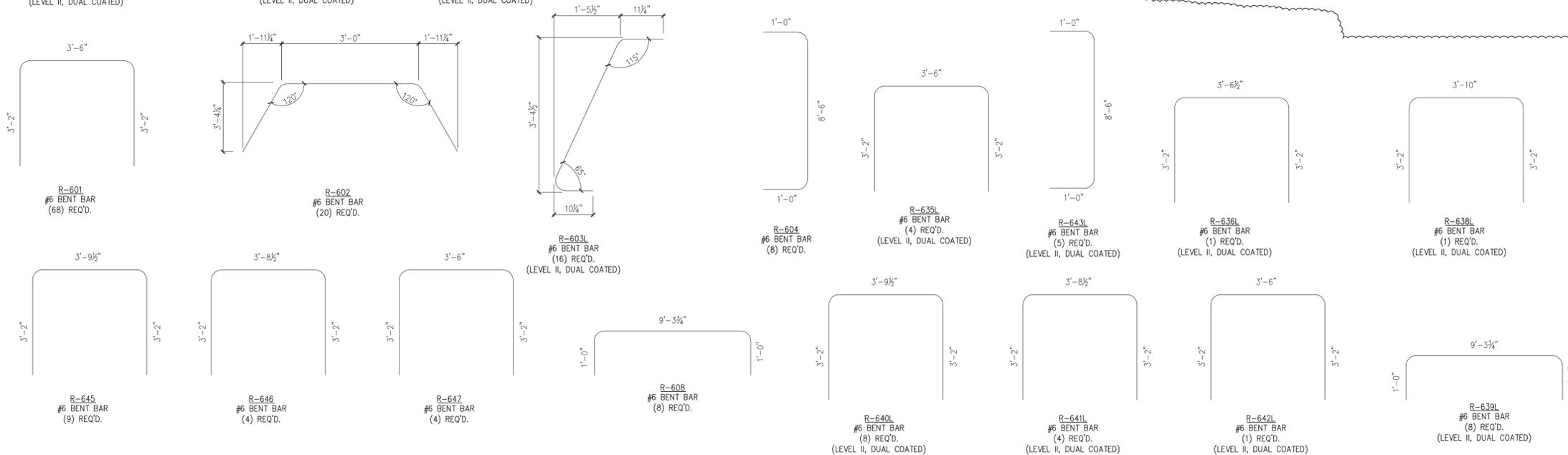
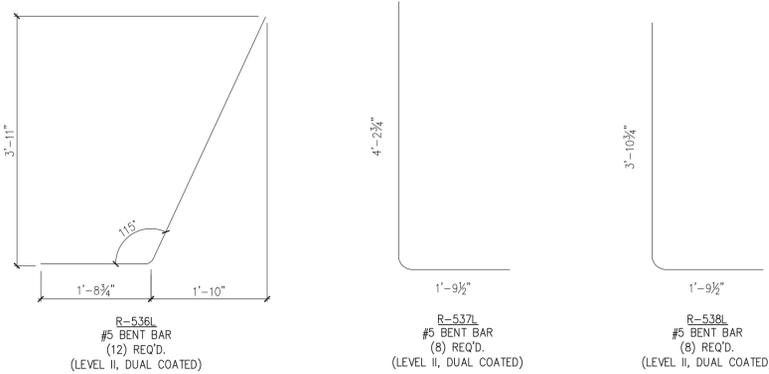
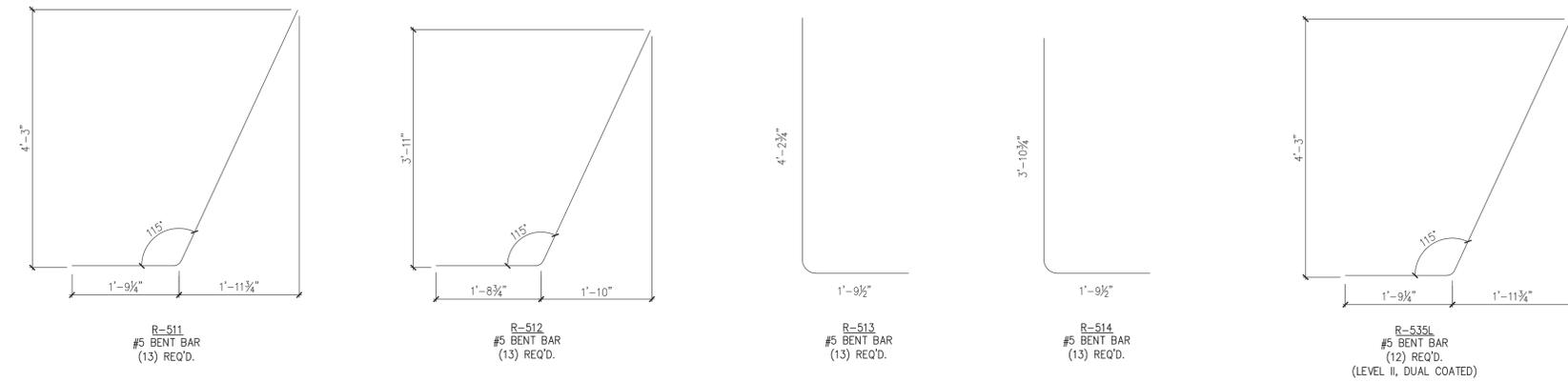
JUN 6 2014

J. P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 OISE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-8361 Fax: (802)388-9010		W.M. SCHULTZ CONSTRUCTION, INC. PO BOX 2820 BALLSTON SPA, NY 12020	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR		DATE: MAR. 14, 2014	SCALE: NOTED
	TOWN OF ROCHESTER VT ROUTE 73 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)		CHKD: DFTM, AAT/RWS JLJ/KLT	JOB NO: 23419-013
	MATERIALS LIST		DWG. NO: M1	

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MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.		REMARKS
1		48	#6 x 5'-2" (LEVEL I - BLACK REINFORCEMENT)	
2		26	#6 x 5'-4" (LEVEL I - BLACK REINFORCEMENT)	
3		48	#6 x 5'-7" (LEVEL I - BLACK REINFORCEMENT)	
4		26	#6 x 5'-10" (LEVEL I - BLACK REINFORCEMENT)	
5		13	#6 x 8'-10" (LEVEL II - DUAL COATED)	
6		11	#6 x 8'-11" (LEVEL II - DUAL COATED)	
7		26	#6 x 9'-8" (LEVEL II - DUAL COATED)	2
8		7	#6 x 13'-4" (LEVEL I - BLACK REINFORCEMENT)	
9		2	#6 x 13'-8" (LEVEL I - BLACK REINFORCEMENT)	
10		7	#6 x 14'-4" (LEVEL I - BLACK REINFORCEMENT)	
11		2	#6 x 14'-5" (LEVEL I - BLACK REINFORCEMENT)	
12		2	#6 x 14'-8" (LEVEL I - BLACK REINFORCEMENT)	
13		7	#6 x 15'-0" (LEVEL I - BLACK REINFORCEMENT)	
14		2	#6 x 15'-5" (LEVEL I - BLACK REINFORCEMENT)	
15		7	#6 x 16'-0" (LEVEL I - BLACK REINFORCEMENT)	
16		36	#6 x 24'-8" (LEVEL I - BLACK REINFORCEMENT)	
17				
18				
19		16	SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	

SHOP DRAWING REVIEW

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VHB Job Number: 97527
 Reviewed By: J. Orenovsky
 Date: 6-11-14

SUBMITTED
 JUN 6 2014
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 MIDDLEBURY, VT 05753

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 BY: Jennifer Fitch DATE: 06/11/2014

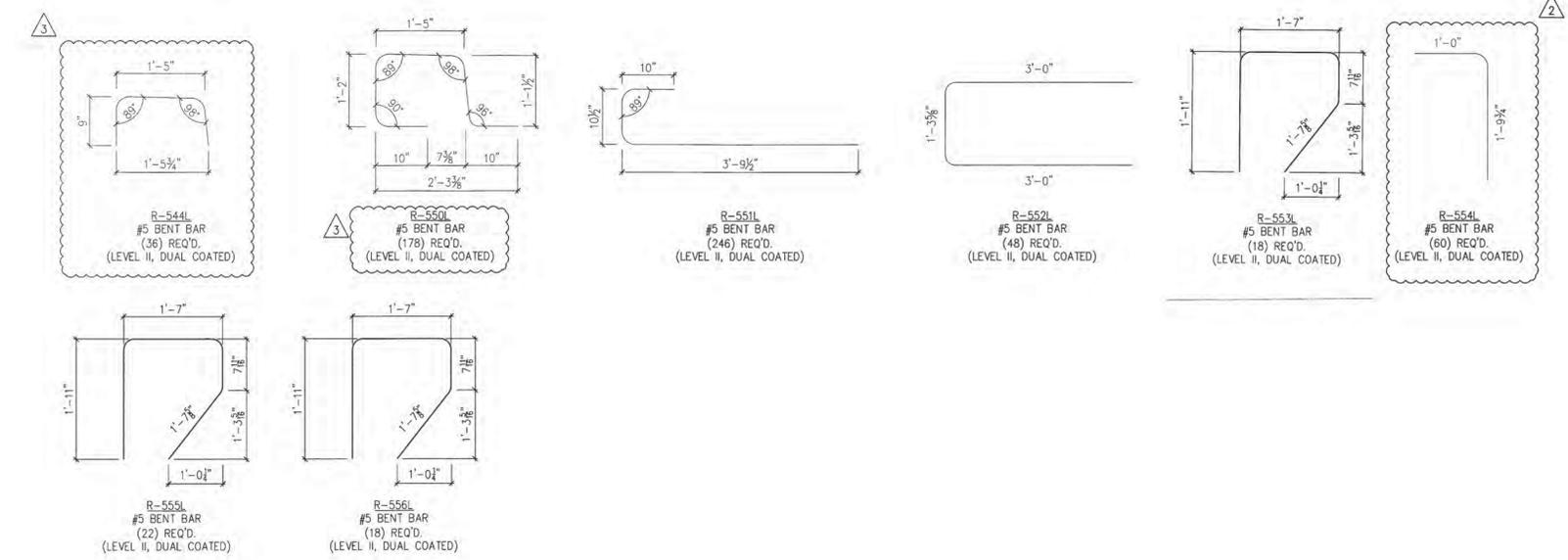
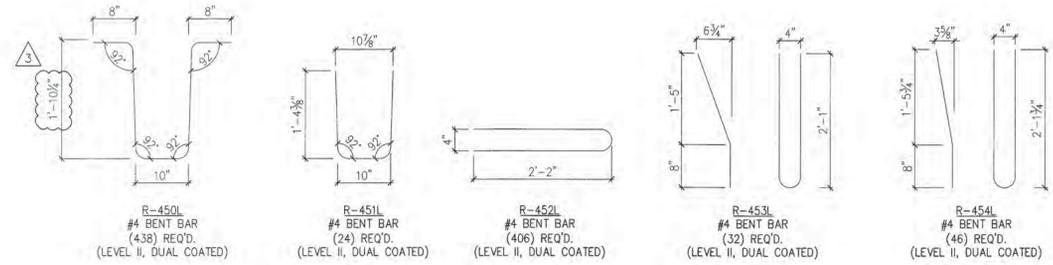
PRECAST ABUTMENT

5/16/14 REVISE & RESUBMIT
 4/11/14 REVISE & RESUBMIT

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	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF WINDSOR		DATE: MAR. 14, 2014 SCALE: NOTED
	TOWN OF ROCHESTER VT ROUTE 73 (RURAL MAJOR COLLECTOR) BRIDGE NO.: 16 PROJECT NO.: BRF 0162 (17)		CHKD: DFTM/AAT/RWS JJ/KLT JOB NO: 23419-013
	MATERIALS LIST		DWG. NO: M2

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PRECAST BEAMS

MISCELLANEOUS MATERIALS				REMARKS
ITEM	MARK	QTY.		
1		54	#4 x 9'-10" (LEVEL II, DUAL COATED)	
2				
3		20	#5 x 8'-0" (LEVEL II, DUAL COATED)	
4		8	#5 x 8'-2" (LEVEL II, DUAL COATED)	
5		20	#5 x 8'-3" (LEVEL II, DUAL COATED)	
6		10	#5 x 8'-6" (LEVEL II, DUAL COATED)	
7		10	#5 x 8'-7" (LEVEL II, DUAL COATED)	
8		660	#5 x 9'-4" (LEVEL II, DUAL COATED)	
9		36	#5 x 9'-7" (LEVEL II, DUAL COATED)	
10		60	#5 x 9'-10" (LEVEL II, DUAL COATED)	
11		34	#5 x 10'-4" (LEVEL II, DUAL COATED) 2	
12		4	#5 x 11'-3" (LEVEL II, DUAL COATED)	
13		2	#5 x 12'-2" (LEVEL II, DUAL COATED)	
14		84	#5 x 24'-0" (LEVEL II, DUAL COATED)	
15		12	#5 x 26'-0" (LEVEL II, DUAL COATED)	
16		12	#5 x 40'-0" (LEVEL II, DUAL COATED)	
17		84	#5 x 41'-0" (LEVEL II, DUAL COATED)	
18				
19		39	#8 x 1'-6" (LEVEL II, DUAL COATED)	
20				
21		12	SET OF (4) 0.60"φ x 270 KSI STRAND LIFTING LOOPS	

Vermont Agency of Transportation
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VHB Job Number: 57927
 Reviewed By: L. Clervinck
 Date: 6-11-14

- △ 5/16/14 REVISE & RESUBMIT
- △ 4/30/14 REVISE & RESUBMIT
- △ 4/11/14 REVISE & RESUBMIT

SUBMITTED
 JUN 6 20 14
 J.P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 GAGE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010		W.M. SCHULTZ CONSTRUCTION, INC. PO BOX 2620 BALLSTON SPA, NY 12020
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MATERIALS LIST			DWG. NO: M3

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