

ABUTMENT # WING WALL GENERAL NOTES

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 5,000 PSI.
- MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 3,500 PSI (UNLESS NOTED OTHERWISE).
- REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) LEVEL II (DUAL COATED) OR UNCOATED, LEVEL I (BLACK STEEL) (AS NOTED ON SHOP DRAWINGS).
- THE TOP OF ABUTMENTS SHALL RECEIVE A SMOOTH FLOAT FINISH (UNLESS NOTED OTHERWISE).
- THE TOP OF 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 5ft POINTS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. PS10.02 AND PS10.05 RESPECTIVELY.
DESIGN MIX:
WING WALLS: J.P.C. BRIDGE MIX #445MSCC
APPROACH SLABS: J.P.C. BRIDGE MIX #445MSCC
ABUTMENTS: J.P.C. BRIDGE MIX #445MSCC
PILE CAPS: J.P.C. BRIDGE MIX #445MSCC
- 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.

NEXT BEAM GENERAL NOTES

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 5,000 PSI.
- MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 6,000 PSI.
- REINFORCING STEEL SHALL BE GR-60, ASTM A-615 (AASHTO M31) LEVEL II (DUAL COATED).
- 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. RIGGING SHALL BE CONFIGURED SUCH THAT EQUAL AND VERTICAL FORCES ARE APPLIED TO EACH OF THE TWO LIFTING LOOPS AT EACH END OF THE BEAM. 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 2'-0" OF THE BEAM ENDS, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. PS10.02 AND PS10.05 RESPECTIVELY.
DESIGN MIX: J.P.C. BRIDGE MIX #426M
- 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 GROUDED AND/OR EPOXIED SHEAR KEYS. J.P. CARRARA & SONS, INC. SHALL BE HELD LIABLE FOR PROBLEMS ASSOCIATED WITH MOISTURE INFILTRATING GROUDED AND/OR EPOXIED SHEAR KEYS.

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'
E_s = 28,600,000 PSI (ASSUMED FOR THESE CALCULATIONS; VALUE TO BE OBTAINED FOR STRAND SPOOL ACTUALLY USED)

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

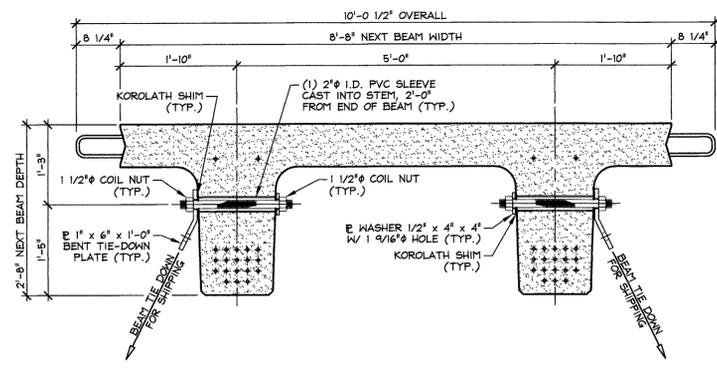
THEREFORE: (TOLERANCES ± 5%)
Δ UPPER LIMIT = 1.05 x 19.977' = 20.98' = 21'
Δ LOWER LIMIT = 0.95 x 19.977' = 18.98' = 19'

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

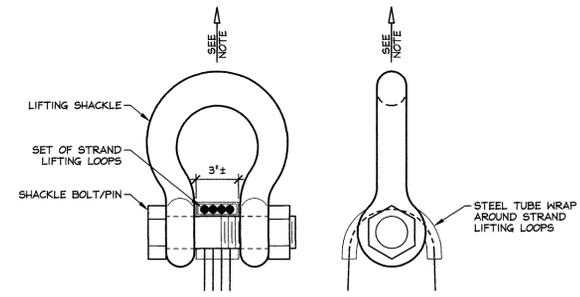
TOTAL TENSIONING FORCE = 44,000 + 1,026 = 45,026 LBS.

STRAND TENSIONING PROCEDURE:

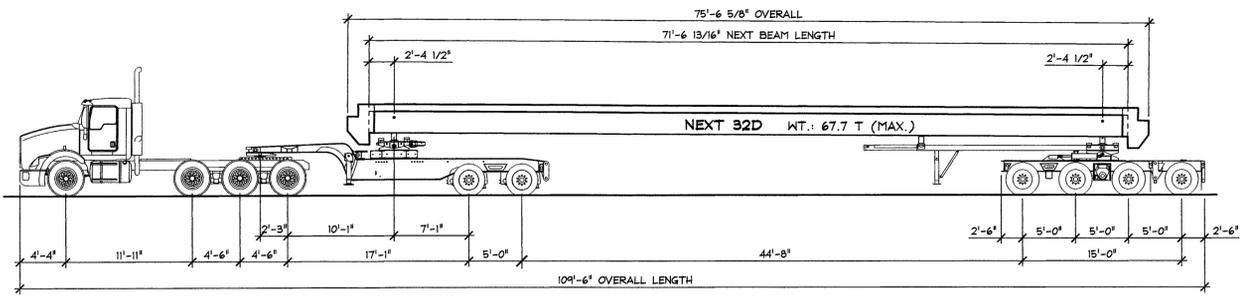
- PULL EACH STRAND INITIALLY TO 3,000* LBS. AND MARK STRAND.
 - THEN PULL EACH STRAND TO A TOTAL TENSION OF 45,026* LBS. AND MEASURE ELONGATION AFTER SEATING. IT MUST BE BETWEEN 19" AND 21".
- *NOTE: FORCES READ ON STRESSING JACK GAUGES MUST BE MADE TO CORRESPOND TO ABOVE VALUES BASED ON CALIBRATION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



NEXT BEAM 32D HOLD-DOWN DETAIL FOR SHIPPING
3/4" = 1'-0"



LIFTING SHACKLE DETAILS
N.T.S.



SHIPPING ELEVATION
N.T.S.

DRAWING INDEX			
SHT. #	DRAWING TITLE	REV. #	REV. DATE
C1	COVER SHEET	1	4-7-14
F1	PRECAST ABUTMENT LAYOUT	1	4-7-14
F2	ABUTMENT #1 ELEVATIONS	1	4-7-14
F3	ABUTMENT #2 ELEVATIONS	1	4-7-14
F4	PRESTRESSED NEXT BEAM # APPROACH SLAB LAYOUT	1	4-7-14
F5	NEXT BEAM SECTION # CURTAIN WALL ELEVATIONS	1	4-7-14
F6	APPROACH SLAB SECTION # BEARING DETAILS	1	4-7-14
NB1	PRESTRESSED NEXT BEAM DETAILS		
NB1.1	PRECAST CURTAIN WALL DETAILS		
NB2	PRESTRESSED NEXT BEAM DETAILS "EN-NB1"		
NB2.1	PRECAST CURTAIN WALL DETAILS "EN-NB1"		
NB3	PRESTRESSED NEXT BEAM DETAILS "EN-NB2"		
NB3.1	PRECAST CURTAIN WALL DETAILS "EN-NB2"		
NB4	PRESTRESSED NEXT BEAM DETAILS "EN-NB3"		
NB4.1	PRECAST CURTAIN WALL DETAILS "EN-NB3"	1	4-7-14
AS1	PRECAST APPROACH SLAB DETAILS "EN-AS1" # "EN-AS3"	1	4-7-14
AS2	PRECAST APPROACH SLAB DETAILS "EN-AS2"	1	4-7-14
AS3	PRECAST APPROACH SLAB DETAILS "EN-AS5" # "EN-AS4"	1	4-7-14
AB1	PRECAST ABUTMENT DETAILS "EN-AB1"	1	4-7-14
AB2	PRECAST ABUTMENT DETAILS "EN-AB2"	1	4-7-14
PC1	PRECAST PILE CAP DETAILS "EN-PC1" # "EN-PC2"	1	4-7-14
WK1	PRECAST WINGWALL DETAILS "EN-WK1"	1	4-7-14
WK2	PRECAST WINGWALL DETAILS "EN-WK1", "EN-WK2" # "EN-WK3"	1	4-7-14
M1	MATERIALS LIST (NEXT BEAMS # APPROACH SLABS)	1	4-7-14
M2	MATERIALS LIST (ABUTMENTS, PILE CAPS # WINGWALLS)	1	4-7-14

DESIGN LIVE LOAD: HL-93

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 4-11-2014

By: James H. [Signature]

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BY: Rob Young DATE: 04/14/2014

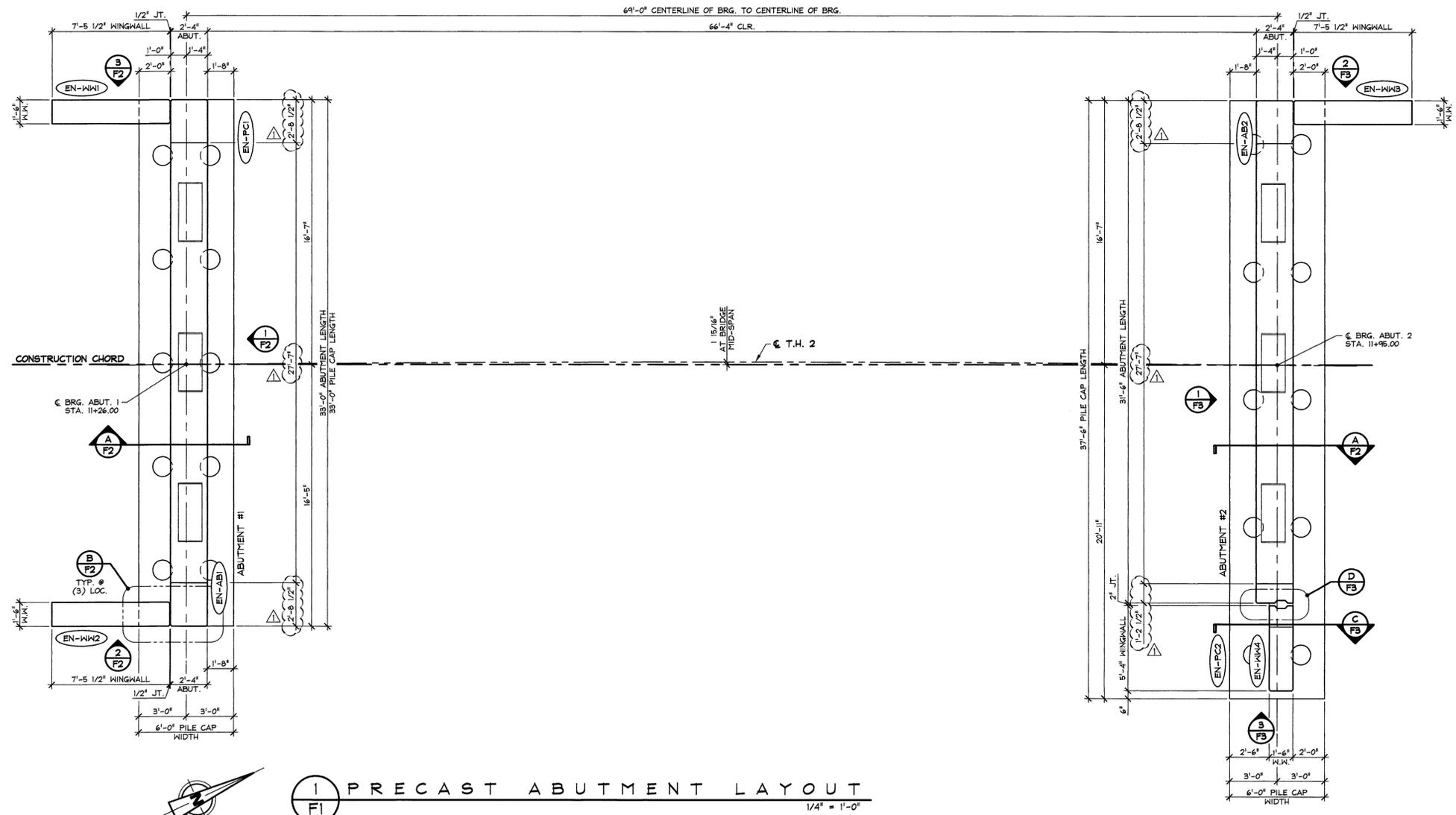
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APR 09 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

J.P. CARRARA & SONS INC. A.L. ST. ONGE CONTRACTOR, INC.
Precast & Prestress Manufacturer CONTRACTOR
2464 GSE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010 MONTGOMERY CENTER, VERMONT

STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN DATE: JAN. 27, 2014
SCALE: NOTED

TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40) CHKD: M.W. DFTM: B.L. JOB NO: 23418-013

COVER SHEET DWG. NO: C1



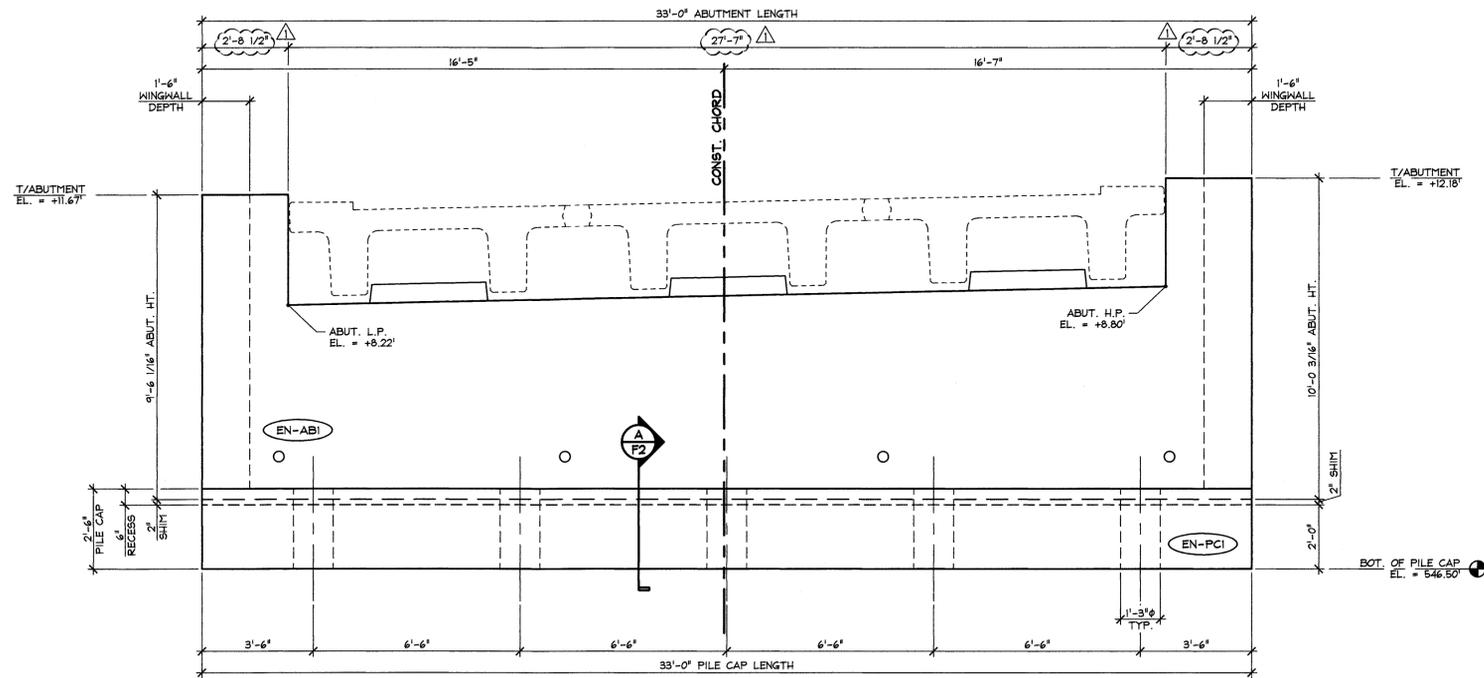
PRECAST ABUTMENT LAYOUT
 1/4" = 1'-0"

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APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date:	4-11-2014	
By:	<i>James Hyatt</i>	
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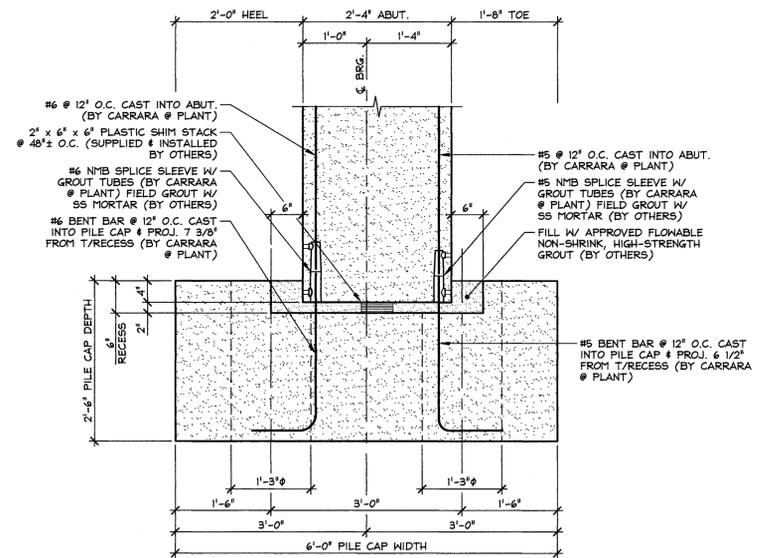
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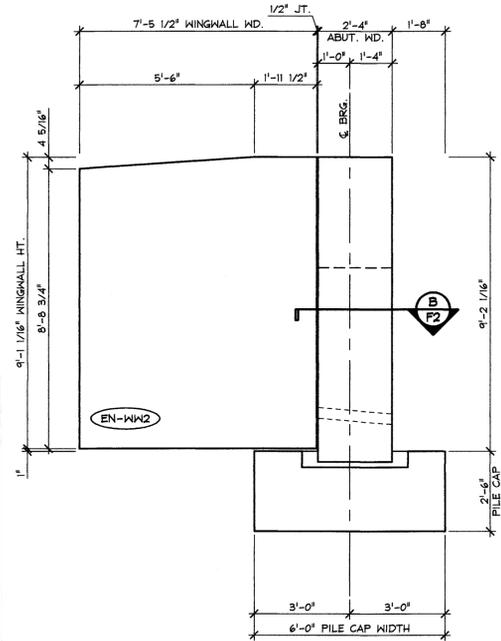
J.P. CARRARA & SONS INC. <small>2444 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010</small>	A.L. ST. ONGE CONTRACTOR, INC. <small>CONTRACTOR MONTGOMERY CENTER, VERMONT</small>
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PRECAST ABUTMENT LAYOUT	DWG. NO: F1



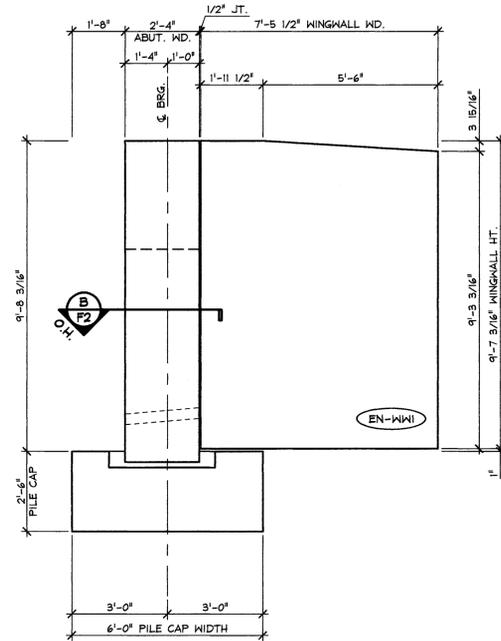
1 ABUTMENT #1 ELEVATION
F2 3/8" = 1'-0"



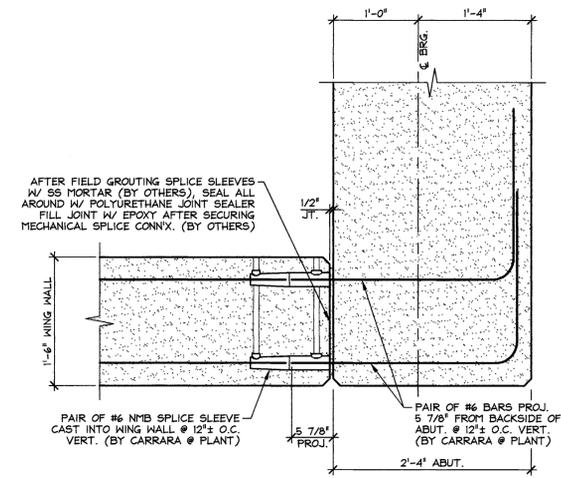
A ABUTMENT CONNECTION DETAIL
F2 3/4" = 1'-0"



2 WINGWALL #2 ELEVATION
F2 3/8" = 1'-0"



3 WINGWALL #1 ELEVATION
F2 3/8" = 1'-0"



B WING WALL CONNECTION DETAIL
F2 1" = 1'-0"

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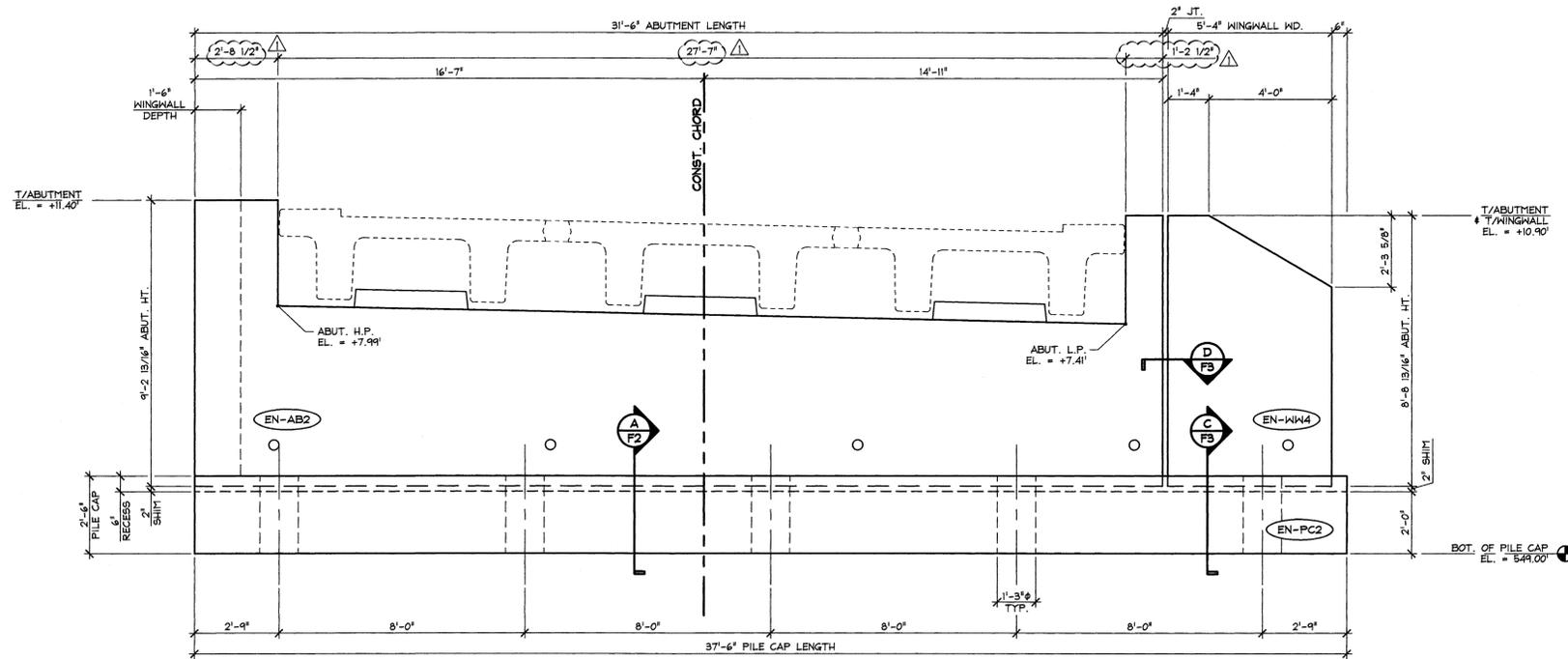
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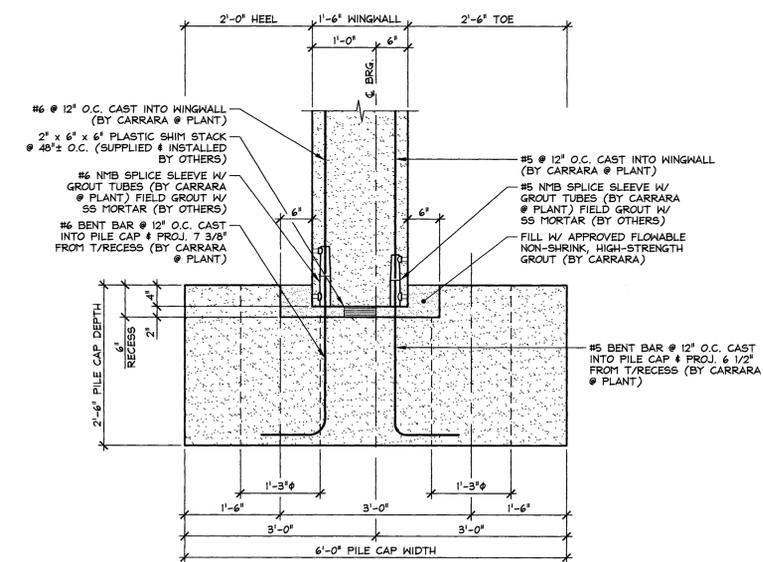
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ABUTMENT #1 ELEVATIONS	DWG. NO: F2

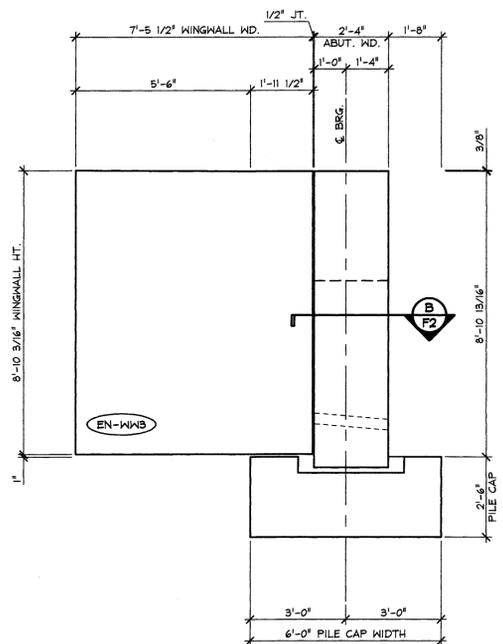
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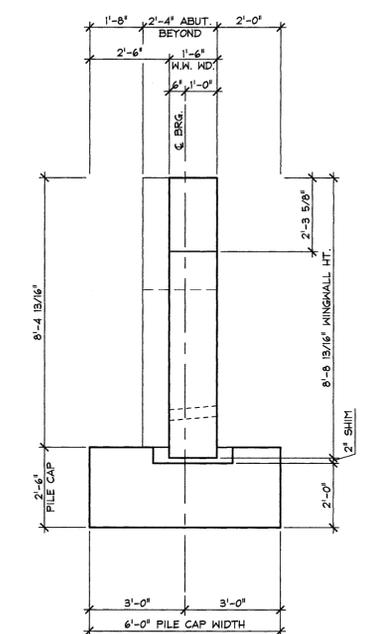
1 ABUTMENT #2 ELEVATION
 3/8" = 1'-0"



C WINGWALL CONNECTION DETAIL
 3/4" = 1'-0"



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



3 WINGWALL #4 ELEVATION
 3/8" = 1'-0"

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REVISE AND RESUBMIT

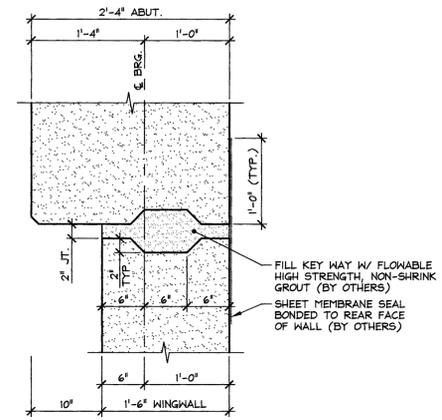
NOT REVIEWED

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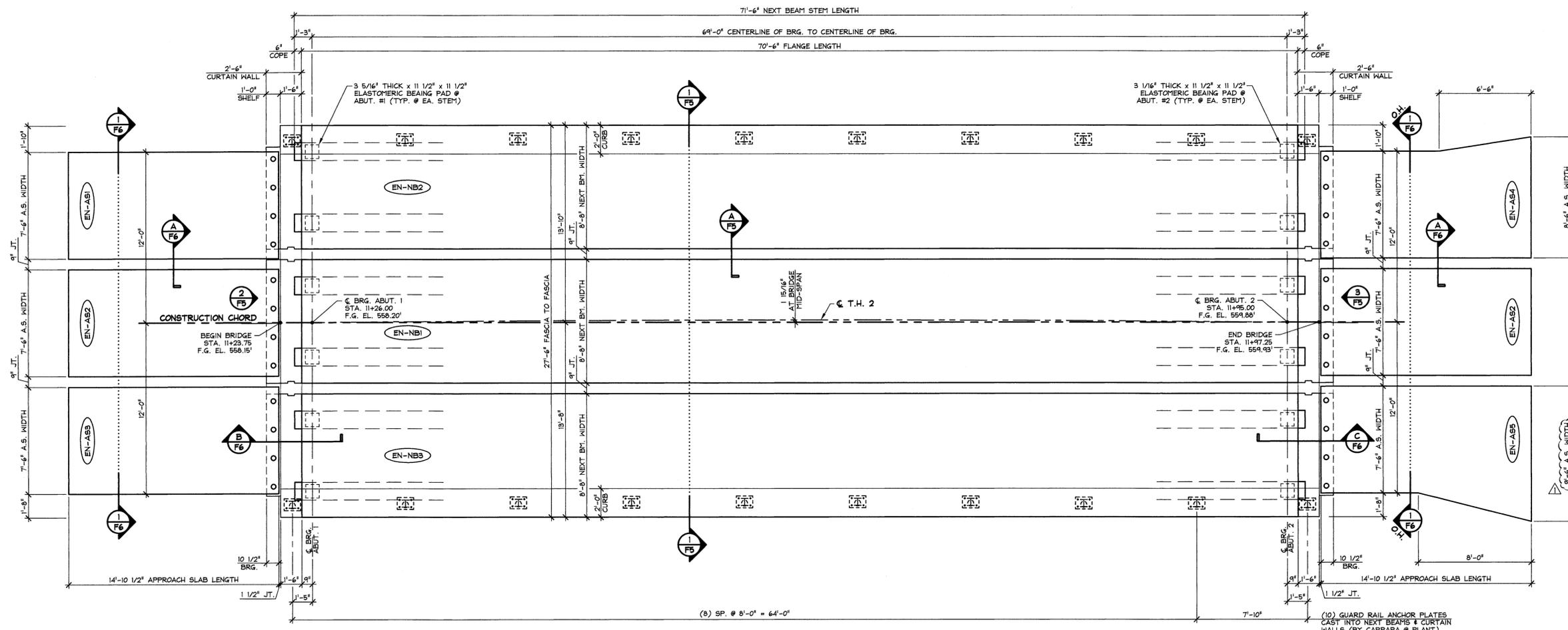
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D ABUTMENT / WING WALL SHEAR KEY DETAIL
 1" = 1'-0"

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ABUTMENT #2 ELEVATIONS	DWG. NO: F3



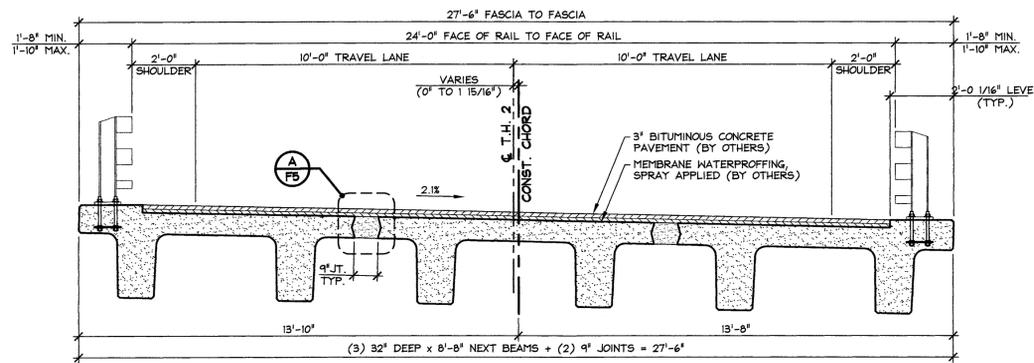
1 NEXT BEAM & APPROACH SLAB LAYOUT
 1/4" = 1'-0"

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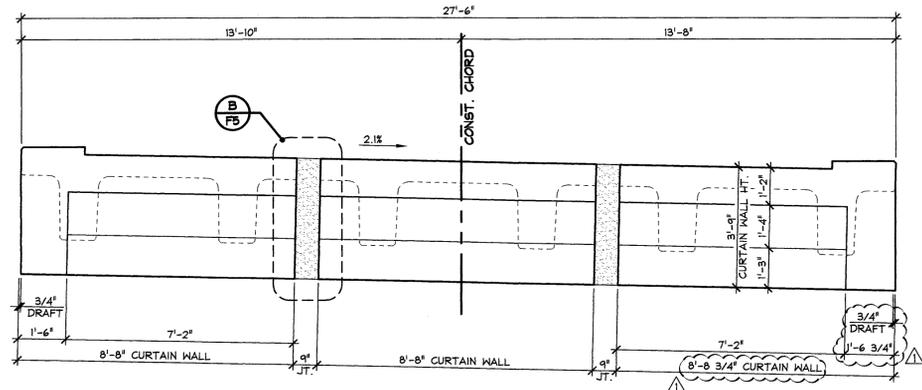
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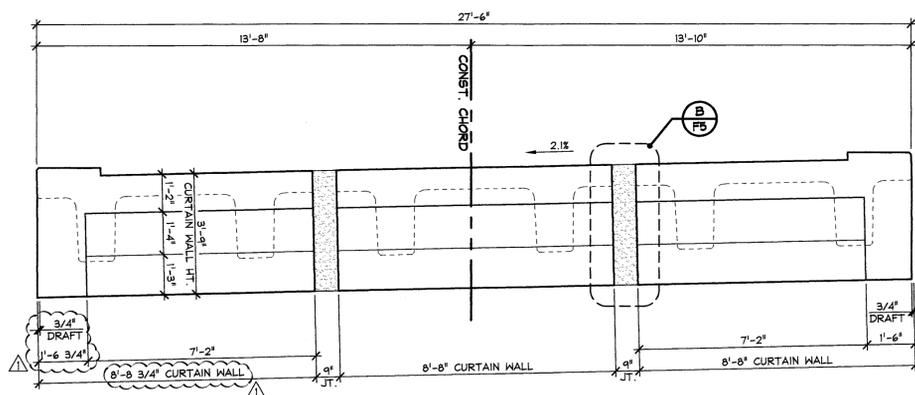
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PRESTRESSED NEXT BEAM & APPROACH SLAB LAYOUT	DWG. NO: F4



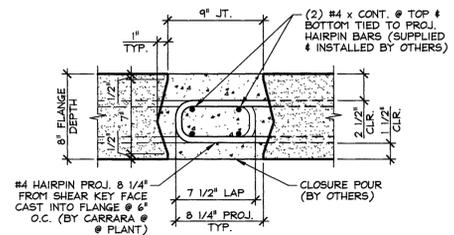
1 TRANSVERSE NEXT BEAM SECTION
F5
3/8" = 1'-0"



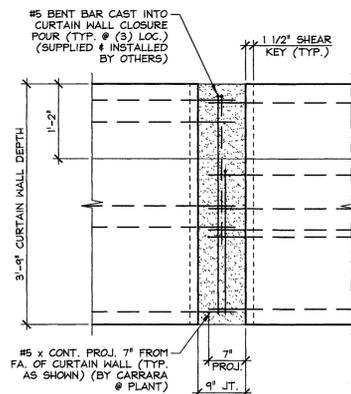
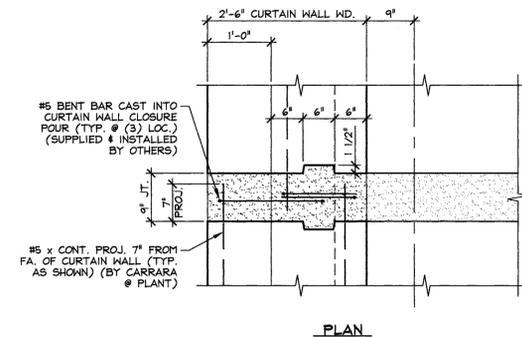
2 CURTAIN WALL ELEVATION - ABUTMENT #1
F5 (MARK END)
3/8" = 1'-0"



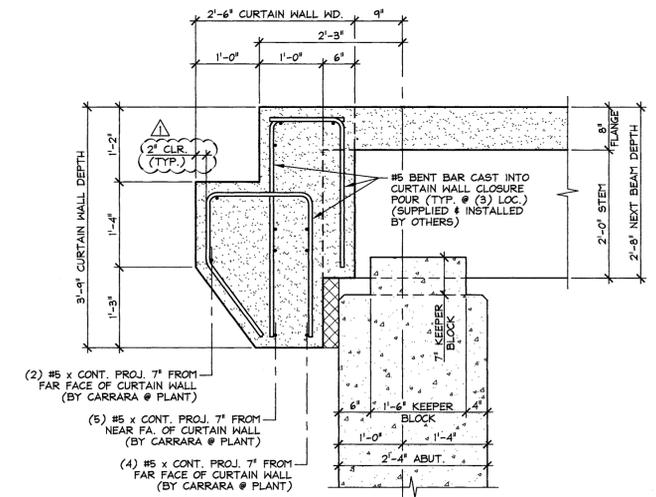
3 CURTAIN WALL ELEVATION - ABUTMENT #2
F5 (NON-MARK END)
3/8" = 1'-0"



A NEXT BEAM CLOSURE POUR
F5
1 1/2" = 1'-0"



ELEVATION



SECTION

B CURTAIN WALL CLOSURE POUR DETAILS
F5
3/4" = 1'-0"

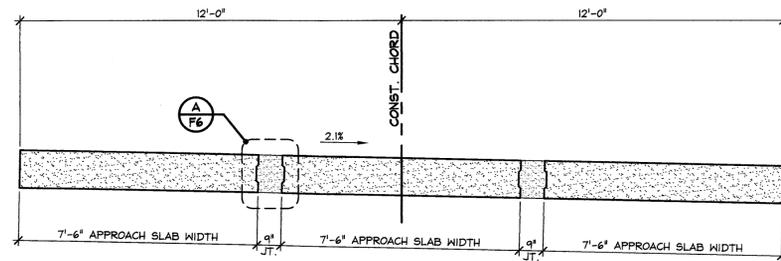
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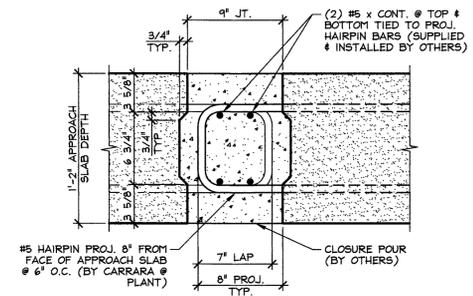
4-7-14 REVISED AS NOTED

APPROVAL STAMP:	J.P. CARRARA & SONS INC. A.L. ST. ONGE CONTRACTOR, INC. Precast & Prestress Manufacturer CONTRACTOR 2444 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010 MONTGOMERY CENTER, VERMONT	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN		DATE: JAN. 27, 2014 SCALE: NOTED
TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40)		CHKD: M.W. DFTM: B.L. JOB NO: 23418-013
NEXT BEAM SECTION & CURTAIN WALL ELEVATIONS		DWG. NO: F5

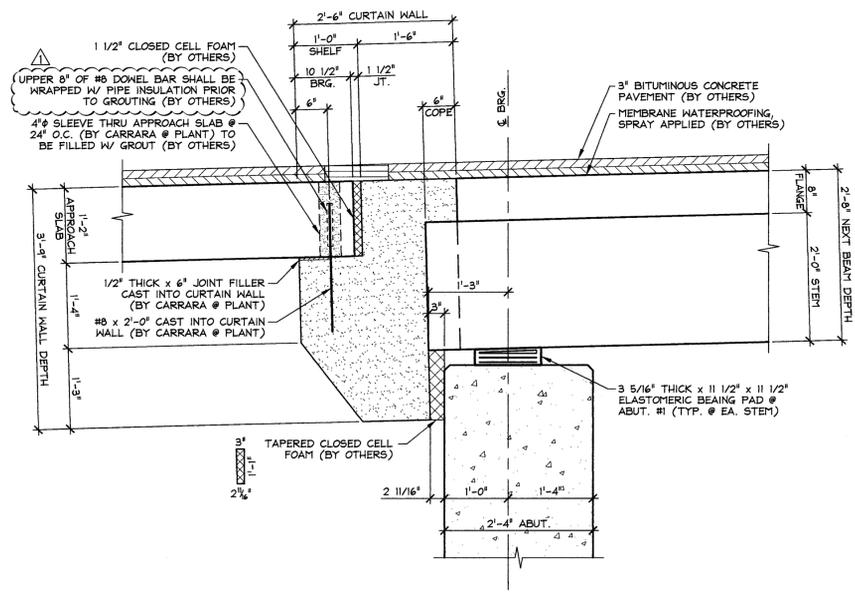
ISSUED FOR PRODUCTION
APR 09 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753



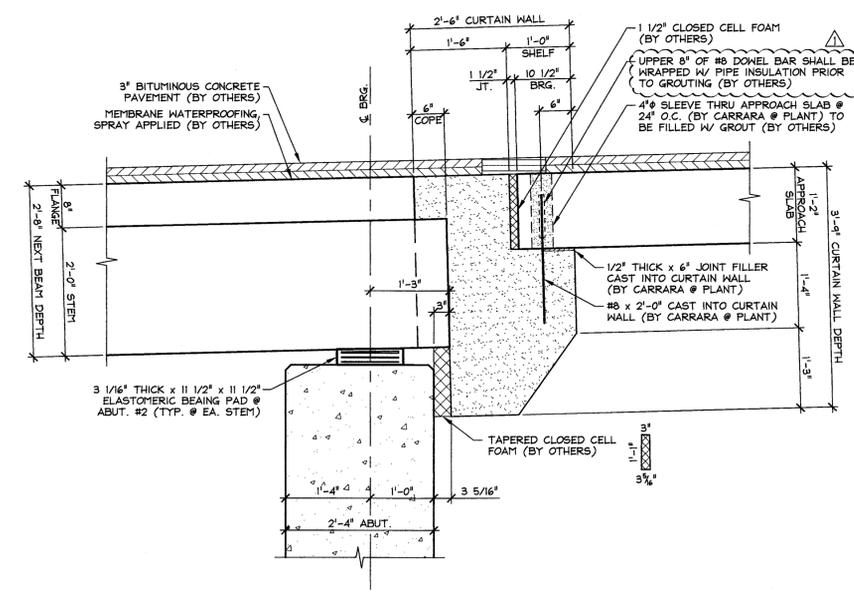
1 TRANSVERSE APPROACH SLAB SECTION
F6 3/8" = 1'-0"



A APPROACH SLAB CLOSURE POUR
F6 1 1/2" = 1'-0"



B BEARING SECTION - ABUTMENT #1
F6 3/4" = 1'-0"



C BEARING SECTION - ABUTMENT #2
F6 3/4" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements	X	
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 4-11-2014		
By: James Hyslop		
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.		

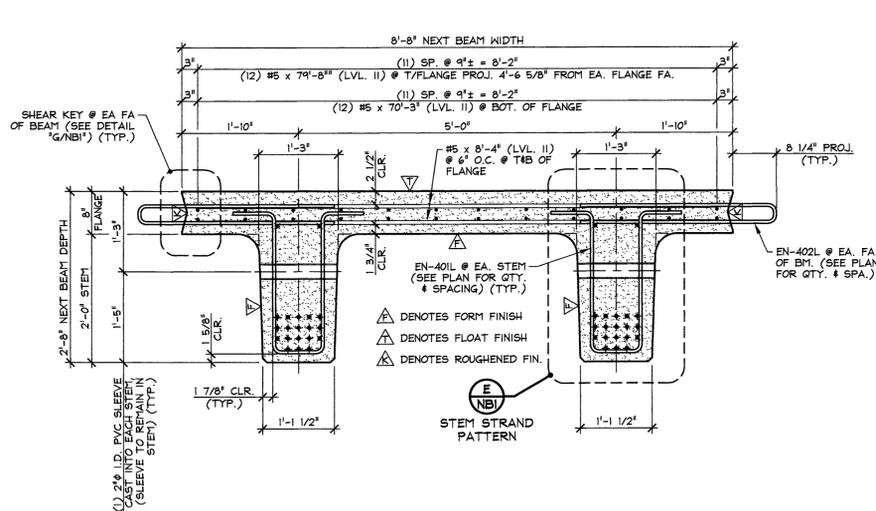
Vermont Agency of Transportation
RECEIVED
 ON: April 9, 2014
 and Checked for
CONFIRMANCE
 BY: Rob Young DATE: 04/14/2014

4-7-14 REVISED AS NOTED

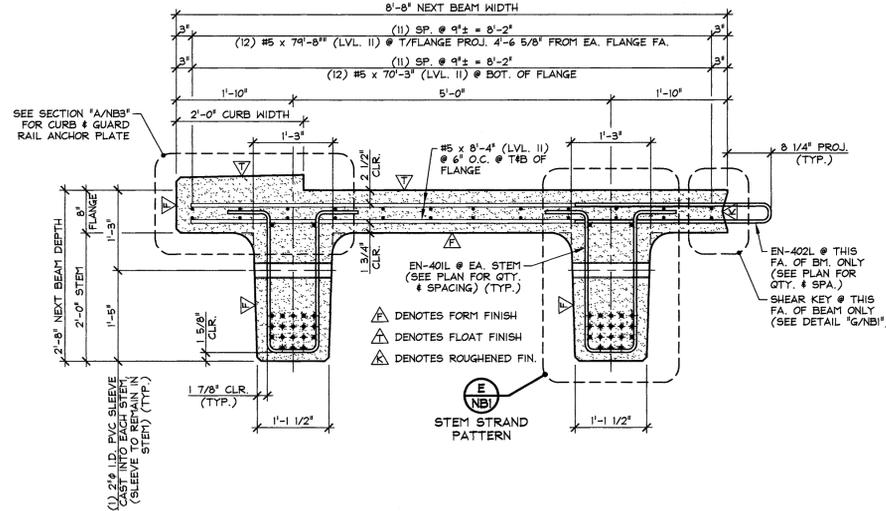
APPROVAL STAMP:

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2464 GAGE ST., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010</small>		A.L. ST. ONGE CONTRACTOR, INC. CONTRACTOR <small>MONTGOMERY CENTER, VERMONT</small>	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN		DATE: JAN. 27, 2014	SCALE: NOTED
TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40)		CHKD: M.W.	DFTM: B.L.
APPROACH SLAB SECTION & BEARING DETAILS		JOB NO: 23418-013	DWG. NO: F6

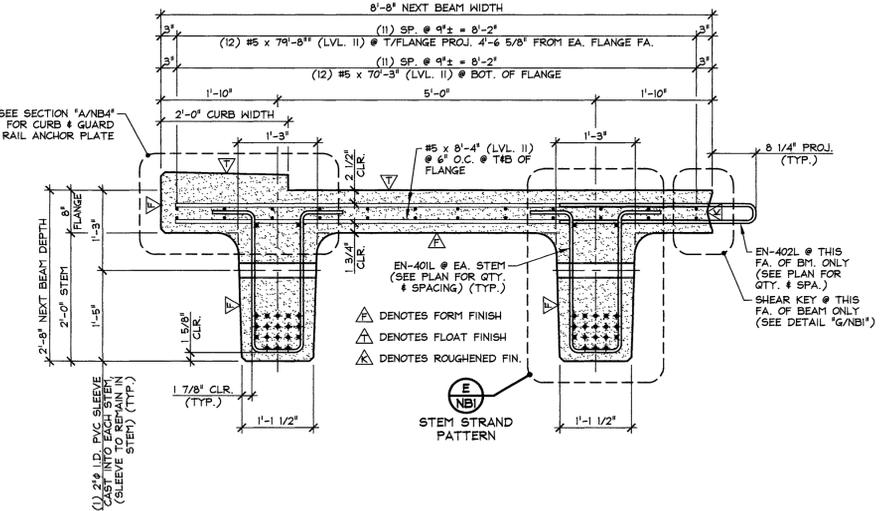
ISSUED FOR PRODUCTION
 APR 09 2014
 J.P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753



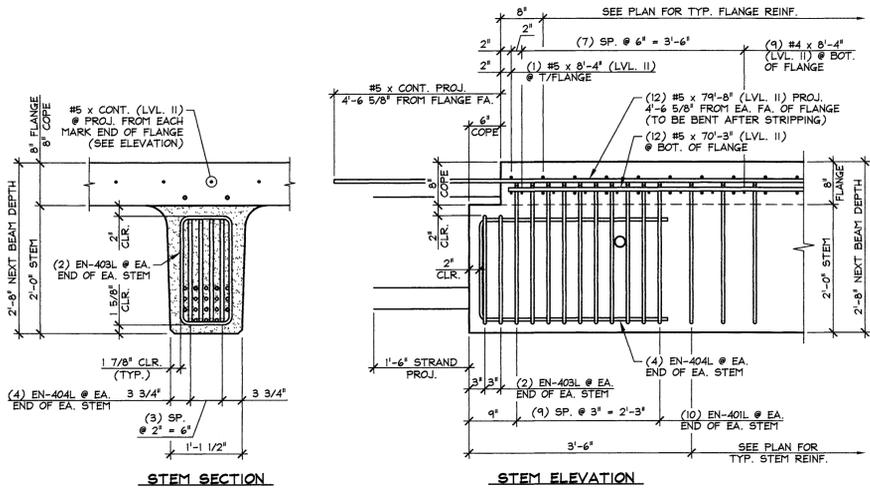
A DIMENSIONAL & REINFORCING SECTION
NBI 3/4" = 1'-0"



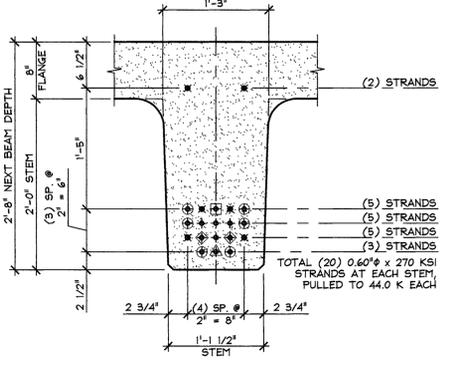
B DIMENSIONAL & REINFORCING SECTION
NBI 3/4" = 1'-0"



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



D END BLOCK STEM REINFORCING DETAILS
NBI SEE CURTAIN WALL DETAILS FOR PROJECTING BAR BENDING & PROJECTING STRAND BENDING (1/4"NBI.11). 3/4" = 1'-0"



E STEM STRAND PATTERN
NBI 1" = 1'-0"

Vermont Agency of Transportation
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BY: Rob Young DATE: 04/14/2014

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APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

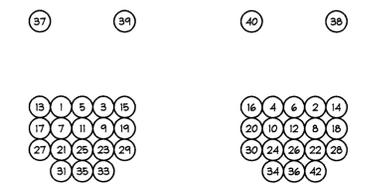
Date: 4-11-2014

By: James H. [Signature]

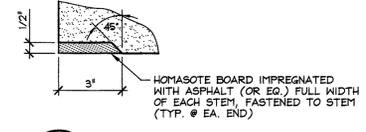
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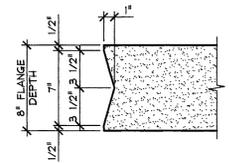
- PRESTRESSING NOTATIONS**
- ◆ DENOTES STRAIGHT STRANDS TO BE CUT FLUSH WITH EA. END OF EA. STEM
 - ✱ DENOTES STRAIGHT STRANDS TO PROJECT 1'-4" FROM EA. END OF EA. STEM
 - ⊕ DENOTES STRAIGHT STRANDS TO BE DEBONDED 6" FROM EA. END OF EA. STEM
 - ⊕ DENOTES STRAIGHT STRANDS TO BE DEBONDED 2'-0" FROM EA. END OF EA. STEM
 - ⊕ DENOTES STRAIGHT STRANDS TO BE DEBONDED 6'-0" FROM EA. END OF EA. STEM
 - ▲ DENOTES STRAIGHT STRANDS TO BE DEBONDED 8'-0" FROM EA. END OF EA. STEM



DETENSIONING SCHEDULE
N.T.S.



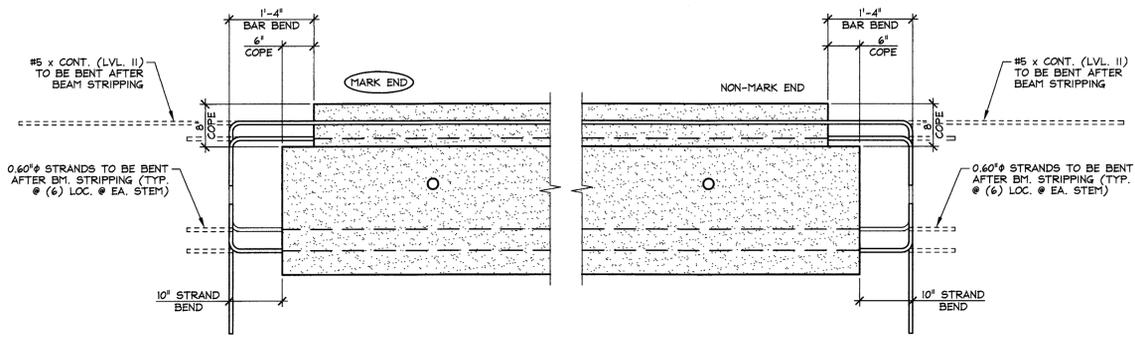
F HOMASOTE DETAIL
NBI 3" = 1'-0"



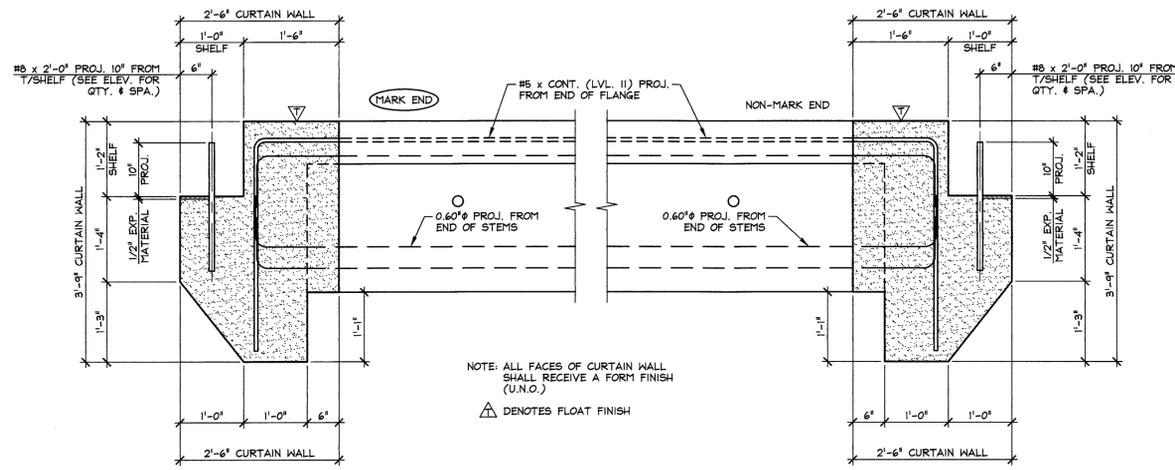
G SHEAR KEY DETAIL
NBI 1/2" = 1'-0"

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MIDDLEBURY, VT 05753

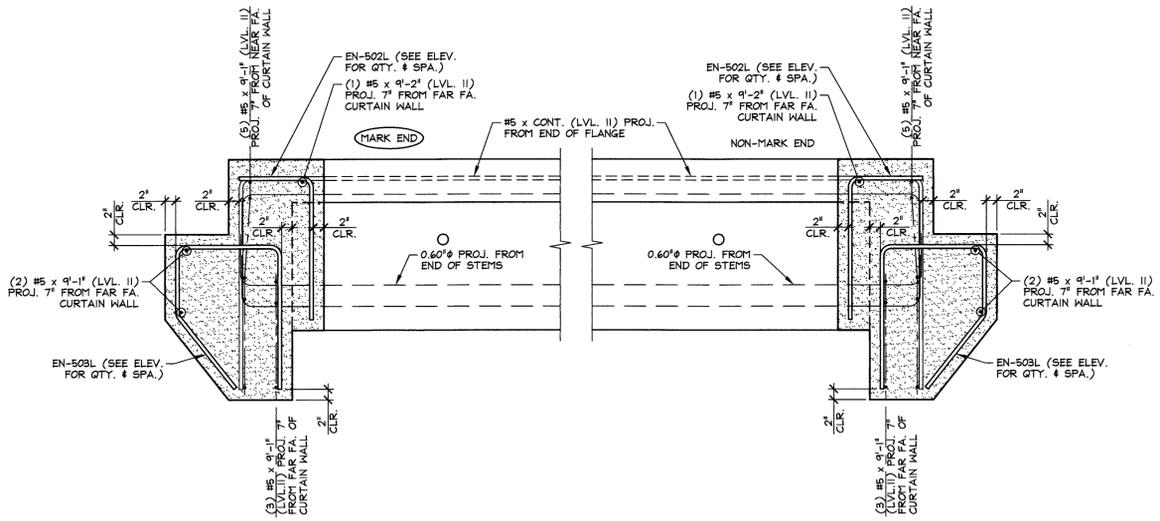
APPROVAL STAMP:	J.P. CARRARA & SONS INC. A.L. St. ONGE CONTRACTOR, INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN		DATE: JAN. 27, 2014 SCALE: NOTED
TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40)		CHKD: M.W. DFTM: B.L. JOB NO: 23418-013
PRESTRESSED NEXT BEAM DETAILS		DWG. NO: NBI



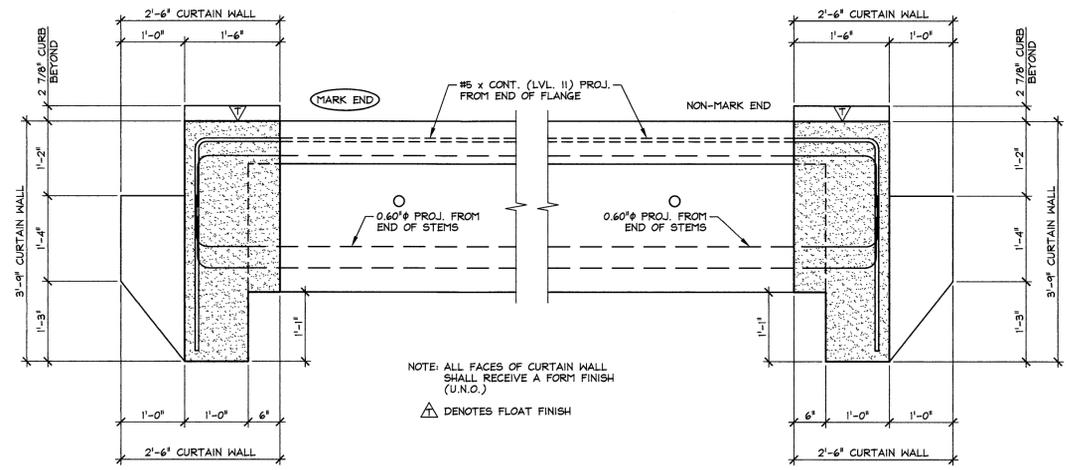
A PROJECTING STRAND & PROJECTING BAR BEND DETAIL
 NBI.1 3/4" = 1'-0"



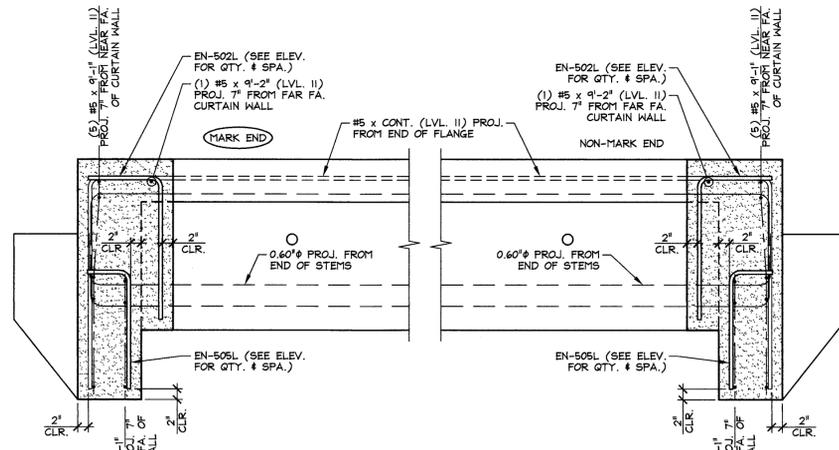
B CURTAIN WALL DIMENSIONAL SECTIONS
 NBI.1 3/4" = 1'-0"



C CURTAIN WALL REINFORCING SECTIONS
 NBI.1 SEE CURTAIN WALL ELEVATIONS FOR LONGITUDINAL BAR LENGTH CHANGES 3/4" = 1'-0"



D CURTAIN WALL DIMENSIONAL SECTIONS
 NBI.1 3/4" = 1'-0"



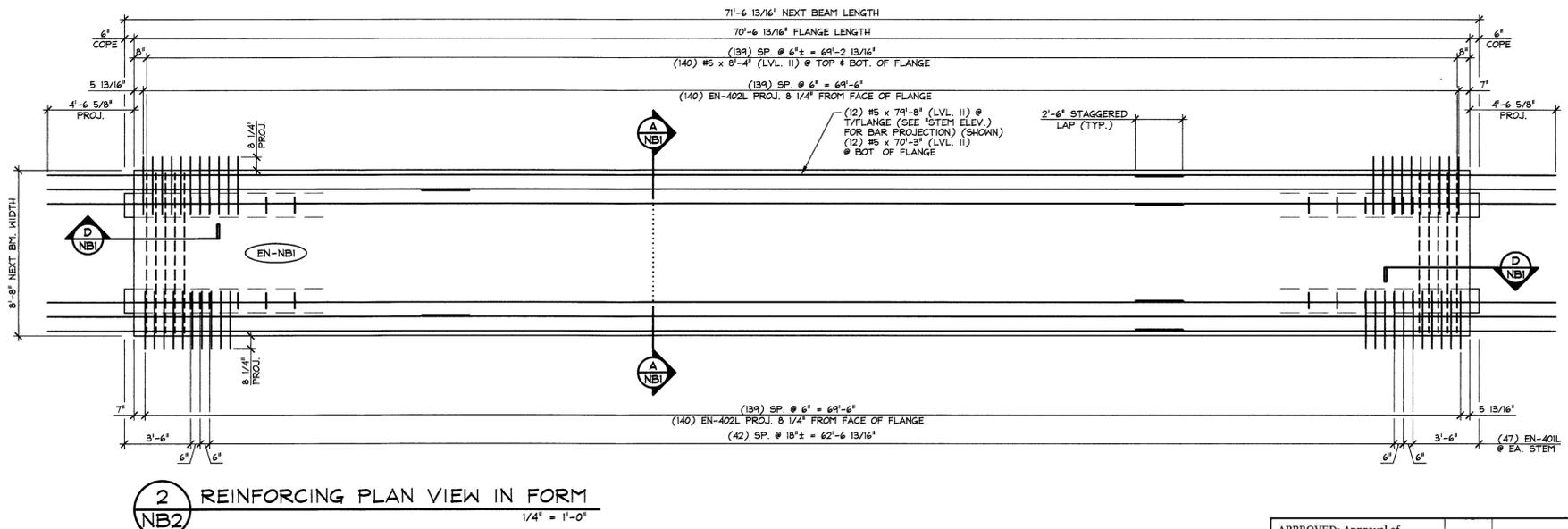
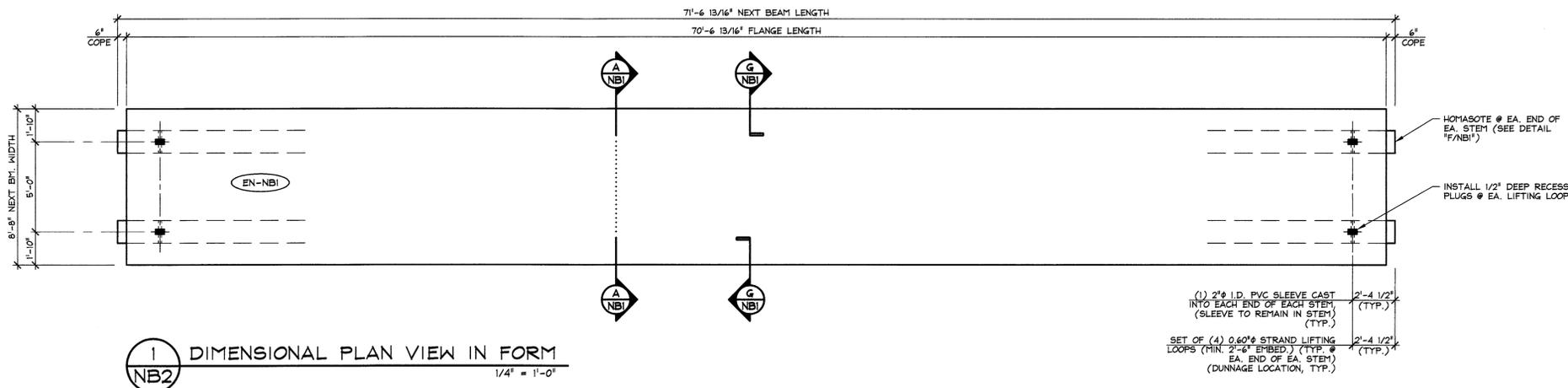
E CURTAIN WALL REINFORCING SECTIONS
 NBI.1 SEE CURTAIN WALL ELEVATIONS FOR LONGITUDINAL BAR LENGTH CHANGES 3/4" = 1'-0"

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements	
APPROVED AS NOTED	
REVISE AND RESUBMIT	
NOT REVIEWED	
Date: 4-11-2014	
By: James H. [Signature]	
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ISSUED FOR PRODUCTION
 APR 09 2014
 J. P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753

J.P. CARRARA & SONS, INC. Precast & Prestress Manufacturer 2494 OASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	A.L. St. ONGE CONTRACTOR, INC. CONTRACTOR MONTGOMERY CENTER, VERMONT
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN	DATE: JAN. 27, 2014 SCALE: NOTED
TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40)	CHKD: M.W. DFTM: B.L. JOB NO: 23418-013
PRECAST CURTAIN WALL DETAILS	DWG. NO: NBI.1

Vermont Agency of Transportation
RECEIVED
 ON: April 9, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 04/14/2014



ISSUED FOR PRODUCTION
APR 09 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

MARK:	EN-NBI	QTY.:	1	WT.:	56.25 T	VOL.:	27.78 cy
MATERIAL LIST / NEXT BEAM							
ITEM	MARK	DESCRIPTION				QTY.	
1	EN-401L	#4 BENT BAR (LEVEL II, DUAL COATED)				134	
2	EN-402L	#4 BENT BAR (LEVEL II, DUAL COATED)				280	
3	EN-403L	#4 BENT BAR (LEVEL II, DUAL COATED)				8	
4	EN-404L	#4 BENT BAR (LEVEL II, DUAL COATED)				16	
5		#4 x 8'-4" (LEVEL II, DUAL COATED)				18	
6							
7		#5 x 8'-4" (LEVEL II, DUAL COATED)				282	
8		#5 x 79'-0" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)				12	
9		#5 x 70'-3" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)				12	
10							
11							
12							
13							
14		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS				4	
15							

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 4-11-2014

By: James Hough

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Stantec

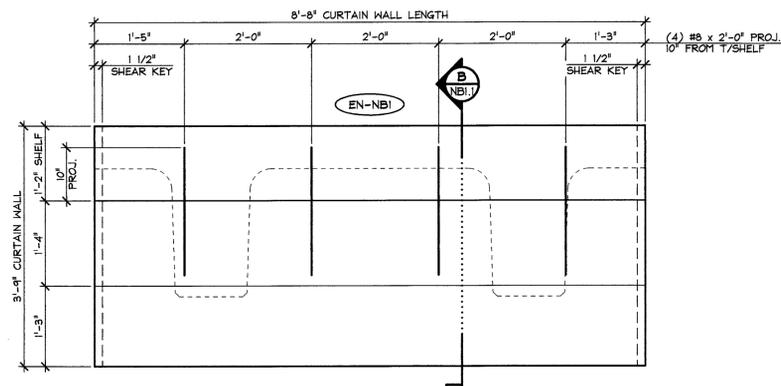
Vermont Agency of Transportation
RECEIVED
ON: April 9, 2014
and Checked for CONFORMANCE
BY: Rob Young DATE: 04/14/2014

J.P. CARRARA & SONS INC. A.L. ST. ONGE CONTRACTOR, INC.
Precast & Prestress Manufacturer CONTRACTOR
2484 OASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010 MONTGOMERY CENTER, VERMONT

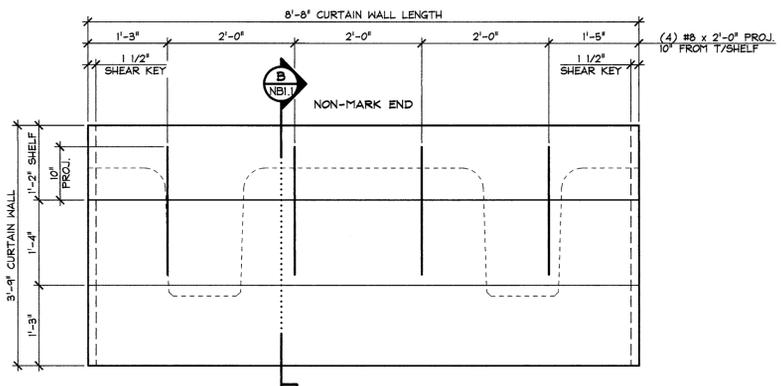
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN DATE: JAN. 27, 2014
SCALE: NOTED

TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40) CHKD: M.W. DFTM: B.L. JOB NO: 23418-013

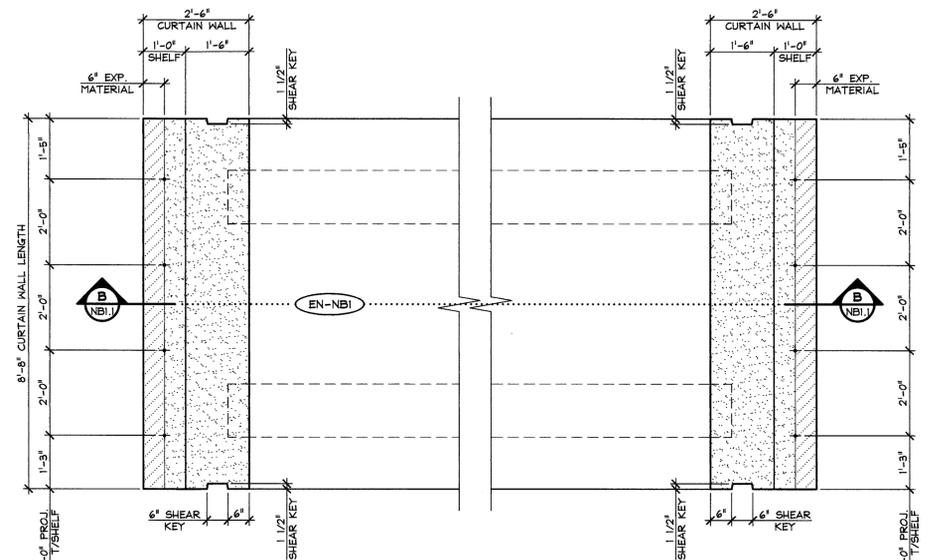
PRESTRESSED NEXT BEAM DETAILS DWG. NO: NB2



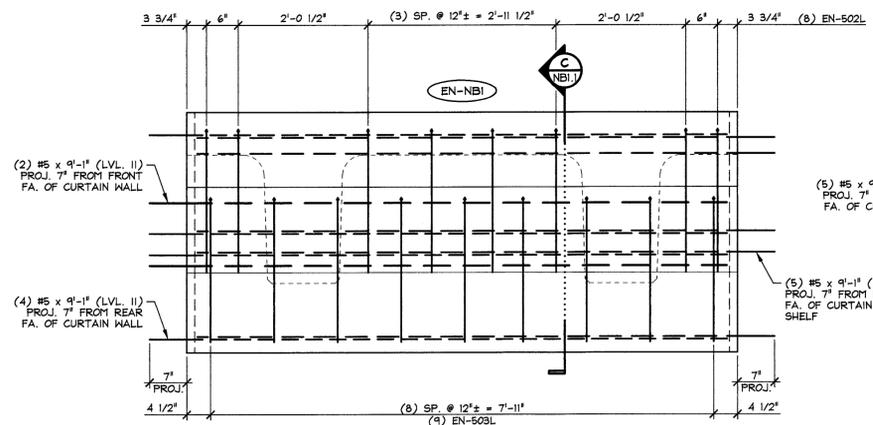
1 CURTAIN WALL DIMENSIONAL ELEVATION
 NB2.1 VOL.: 2.17 cy WT.: 4.40 T 3/4" = 1'-0"



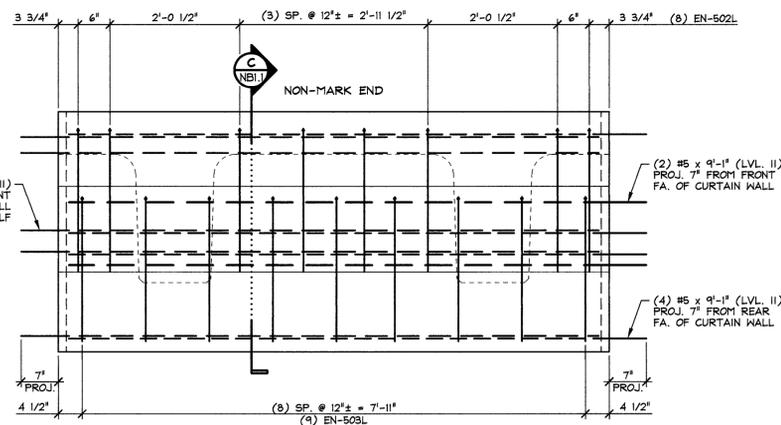
3 CURTAIN WALL DIMENSIONAL ELEVATION
 NB2.1 VOL.: 2.17 cy WT.: 4.40 T 3/4" = 1'-0"



5 CURTAIN WALL DIMENSIONAL PLAN
 NB2.1 1/2" = 1'-0"



2 CURTAIN WALL REINFORCING ELEVATION
 NB2.1 3/4" = 1'-0"



4 CURTAIN WALL REINFORCING ELEVATION
 NB2.1 3/4" = 1'-0"

56.25 T = NEXT BEAM
 4.40 T = CURTAIN WALL (MARK END)
 4.40 T = CURTAIN WALL (NON-MARK END)
 65.1 T = TOTAL BEAM WT.

ISSUED FOR PRODUCTION
 APR 09 2014
 J.P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753

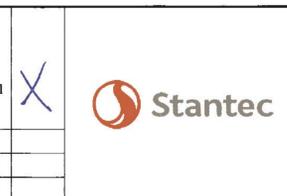
MATERIAL LIST / CURTAIN WALL				
ITEM	MARK	DESCRIPTION	QTY./CURTAIN WALL	
			MARK END	NON-MARK END
1	SH-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	8	8
2	SH-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	9	9
3				
4		#5 x 9'-1" (LVL. II, DUAL COATED)	11	11
5				
6				
7				
8		#8 x 2'-0" (LEVEL II, DUAL COATED)	4	4
9				
10				

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED



Date: 4-11-2014

By: James H. [Signature]

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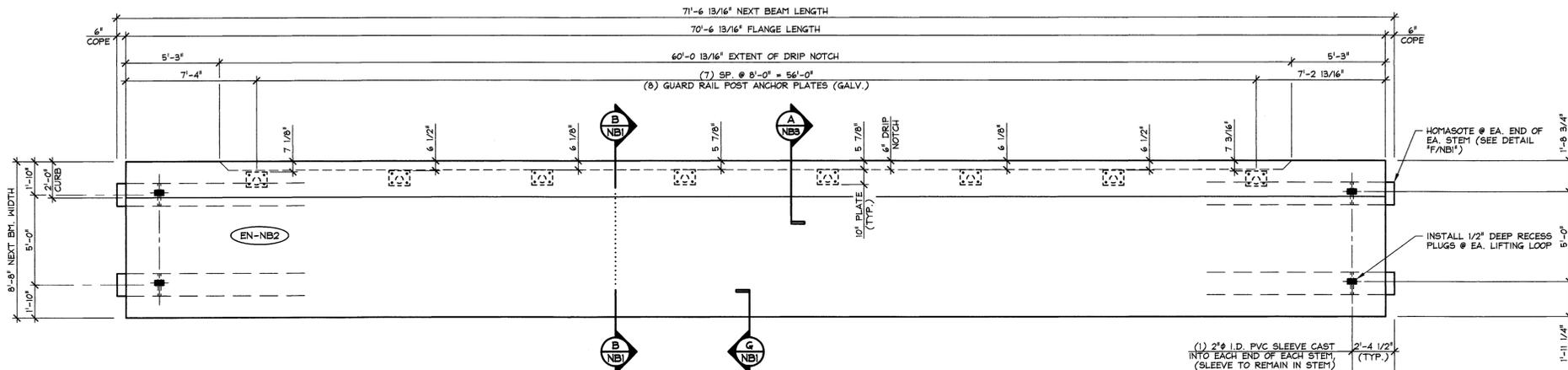
Vermont Agency of Transportation
RECEIVED
 ON: April 9, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 04/14/2014

J.P. CARRARA & SONS INC. A.L. St. ONGE CONTRACTOR, INC.
 Precast & Prestress Manufacturer CONTRACTOR
 2464 GSE STR. MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010 MONTGOMERY CENTER, VERMONT

STATE OF VERMONT AGENCY OF TRANSPORTATION DATE: JAN. 27, 2014
 COUNTY OF FRANKLIN SCALE: NOTED

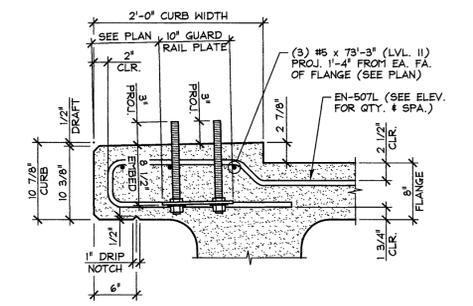
TOWN OF ENOSBURG CHKD: M.W. DFTM: B.L.
 BOSTON POST ROAD T.H.2 CLASS 2
 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40) JOB NO: 23418-013

PRECAST CURTAIN WALL DETAILS DWG. NO: NB2.1

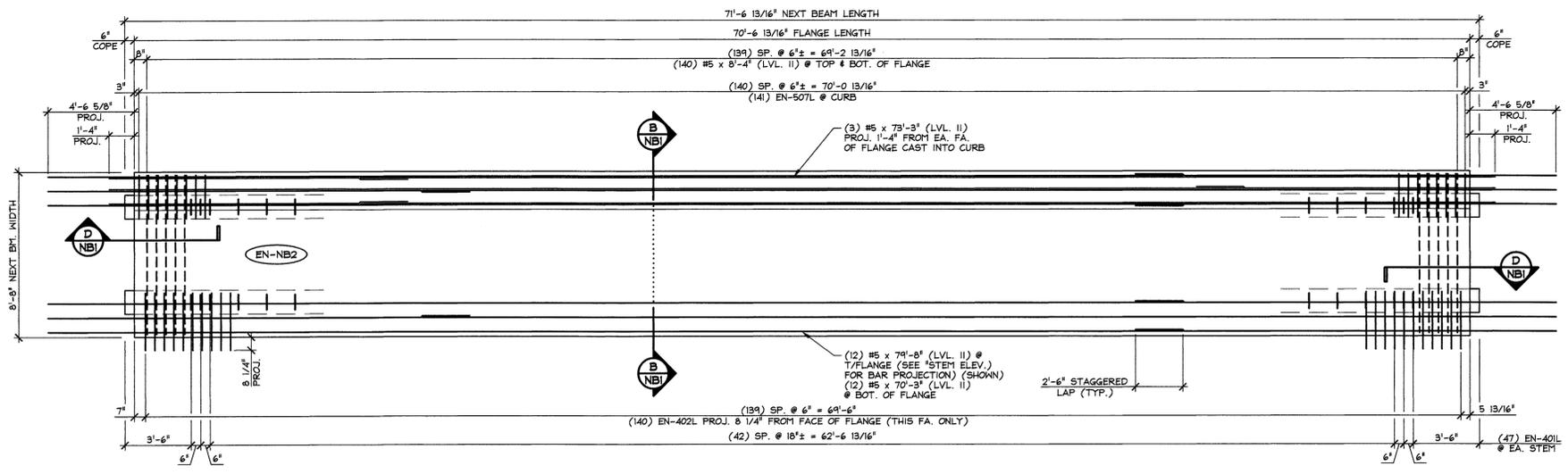


1 DIMENSIONAL PLAN VIEW IN FORM
NB3
1/4" = 1'-0"

(1) 2" I.D. PVC SLEEVE CAST INTO EACH END OF EACH STEM, (SLEEVE TO REMAIN IN STEM) (TYP.)
2'-4 1/2" (TYP.)
SET OF (4) 0.60" STRAND LIFTING LOOPS (MIN. 2'-6" EMBED.) (TYP. @ EA. END OF EA. STEM) (DUNNAGE LOCATION, TYP.)
2'-4 1/2" (TYP.)



A CURB & GUARD RAIL ANCHOR
NB3
PLATE SECTION
1" = 1'-0"
TYP. BEAM REINF. NOT SHOWN FOR CLARITY



2 REINFORCING PLAN VIEW IN FORM
NB3
1/4" = 1'-0"

ISSUED FOR PRODUCTION
APR 09 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

MARK: EN-NB2	QTY.: 1	WT.: 58.67 T	VOL.: 28.98 cy
MATERIAL LIST / NEXT BEAM			
ITEM	MARK	DESCRIPTION	QTY.
1	EN-401L	#4 BENT BAR (LEVEL II, DUAL COATED)	134
2	EN-402L	#4 BENT BAR (LEVEL II, DUAL COATED)	140
3	EN-403L	#4 BENT BAR (LEVEL II, DUAL COATED)	8
4	EN-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	16
5		#4 x 8'-4" (LEVEL II, DUAL COATED)	18
6			
7	EN-507L	#5 BENT BAR (LEVEL II, DUAL COATED)	141
8		#5 x 8'-4" (LEVEL II, DUAL COATED)	282
9		#5 x 7'-0" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)	12
10		#5 x 7'-0" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)	12
11		#5 x 7'-0" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)	3
12			
13		GUARD RAIL ANCHOR PLATE (GALV.) (SUPPLIED BY OTHERS)	8
14		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4
15			

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 4-11-2014

By: James H. [Signature]

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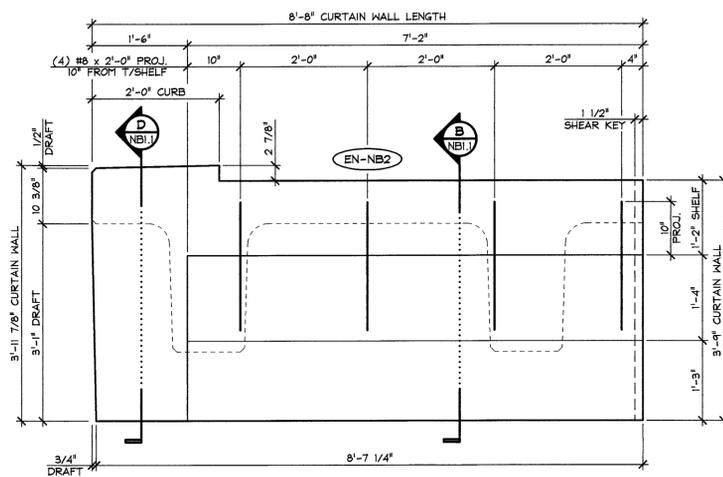
Vermont Agency of Transportation
RECEIVED
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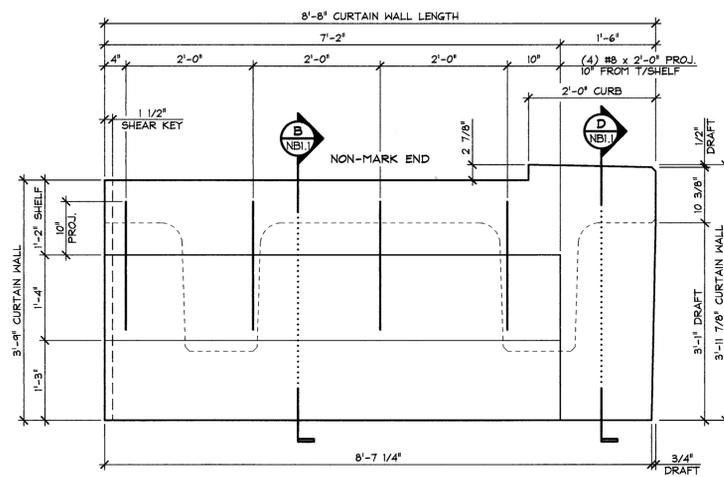
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN DATE: JAN. 27, 2014
SCALE: NOTED

TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40) CHKD: M.W. DFTM: B.L.
JOB NO: 23416-013

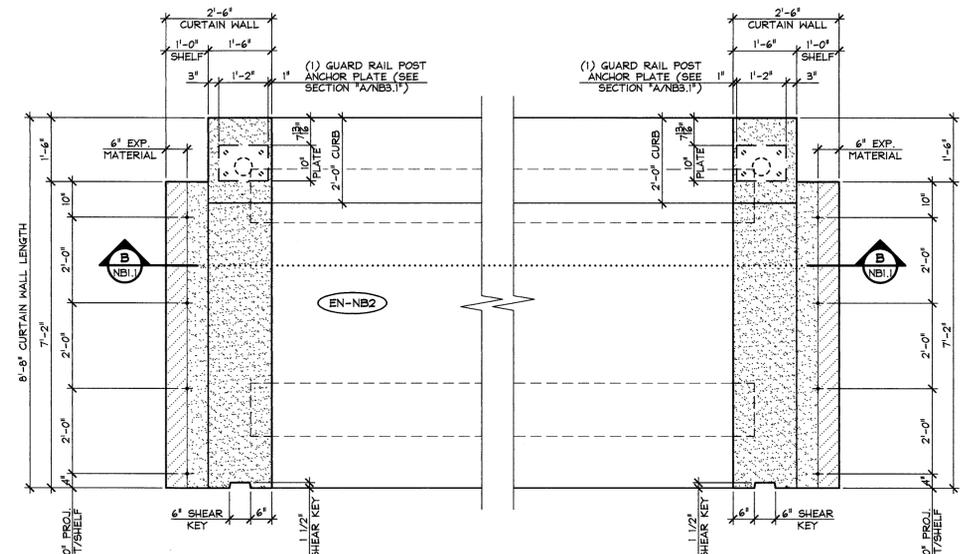
PRESTRESSED NEXT BEAM DETAILS DWG. NO: NB3



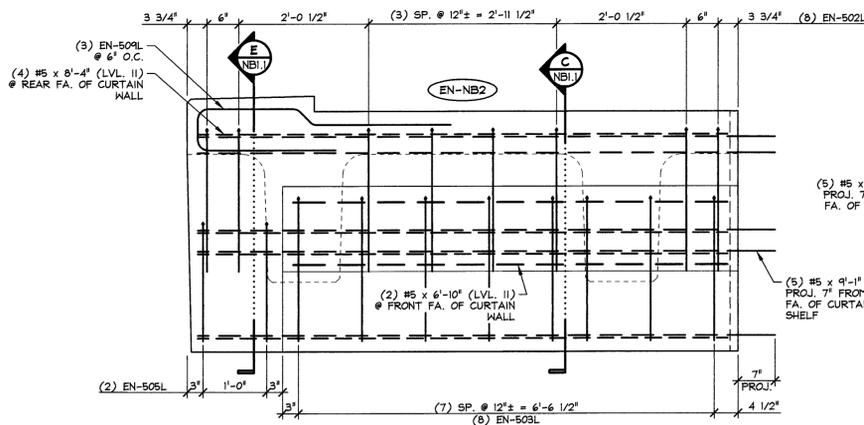
1 CURTAIN WALL DIMENSIONAL ELEVATION
 NB3.1 VOL.: 2.11 cy WT.: 4.28 T 3/4" = 1'-0"



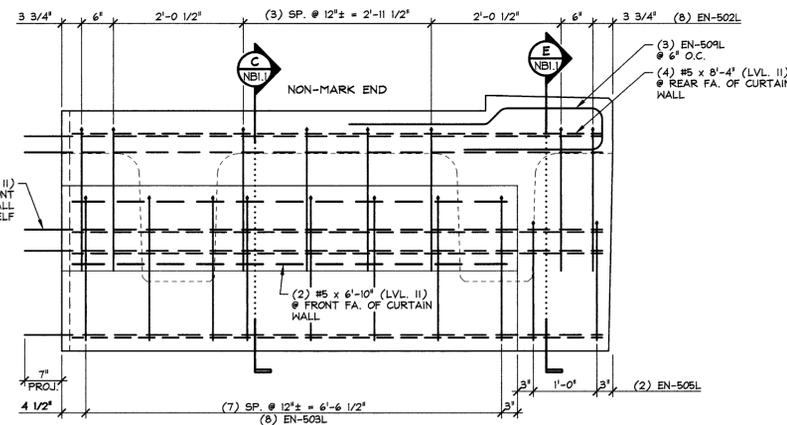
3 CURTAIN WALL DIMENSIONAL ELEVATION
 NB3.1 VOL.: 2.11 cy WT.: 4.28 T 3/4" = 1'-0"



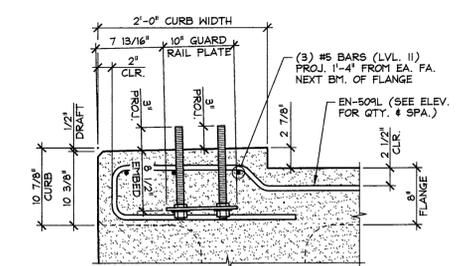
5 CURTAIN WALL DIMENSIONAL PLAN
 NB3.1 1/2" = 1'-0"



2 CURTAIN WALL REINFORCING ELEVATION
 NB3.1 3/4" = 1'-0"



4 CURTAIN WALL REINFORCING ELEVATION
 NB3.1 3/4" = 1'-0"



A CURB & GUARD RAIL ANCHOR PLATE SECTION
 NB3.1 1" = 1'-0"

58.67 T = NEXT BEAM
 4.28 T = CURTAIN WALL (MARK END)
 4.28 T = CURTAIN WALL (NON-MARK END)
 67.2 T = TOTAL BEAM WT.

ISSUED FOR PRODUCTION
 APR 09 2014
 J.P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753

MARK: EN-NB2 QTY: 1

MATERIAL LIST / CURTAIN WALL				
ITEM	MARK	DESCRIPTION	QTY./CURTAIN WALL	
			MARK END	NON-MARK END
1	SH-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	8	8
2	SH-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	8	8
3	SH-505L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	2
4	SH-509L	#5 BENT BAR (LEVEL II, DUAL COATED)	3	3
5				
6		#5 x 6'-10" (LVL. II, DUAL COATED)	2	2
7		#5 x 8'-4" (LVL. II, DUAL COATED)	4	4
8		#5 x 9'-1" (LVL. II, DUAL COATED)	5	5
9				
10				
11				
12				
13		GUARD RAIL ANCHOR PLATE (GALV.) (SUPPLIED BY OTHERS)	1	1
14		#8 x 2'-0" (LEVEL II, DUAL COATED)	4	4
15				

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 4-11-2014

By: James Young

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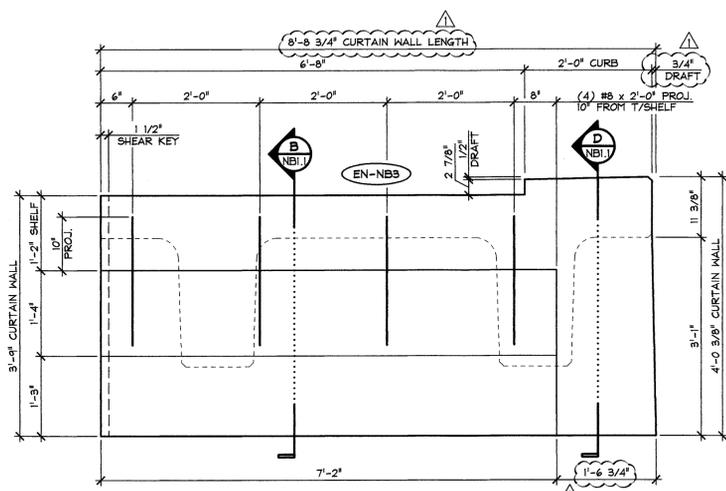
Vermont Agency of Transportation
RECEIVED
 ON: April 9, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 04/14/2014

J.P. CARRARA & SONS INC. A.L. St. ONGE CONTRACTOR, INC.
 Precast & Prestress Manufacturer CONTRACTOR
 244 CASE ST., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010 MONTGOMERY CENTER, VERMONT

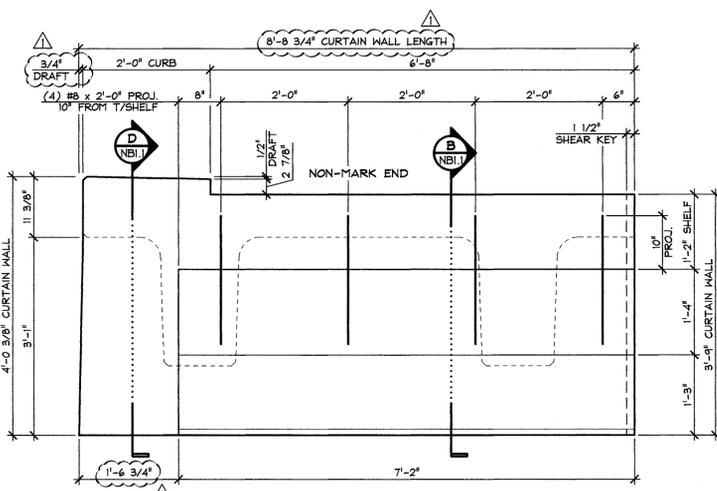
STATE OF VERMONT AGENCY OF TRANSPORTATION DATE: JAN. 27, 2014
 COUNTY OF FRANKLIN SCALE: NOTED

TOWN OF ENOSBURG CHKD: M.J.W. DFTM: B.L.
 BOSTON POST ROAD T.H.2 CLASS 2
 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40) JOB NO: 23418-013

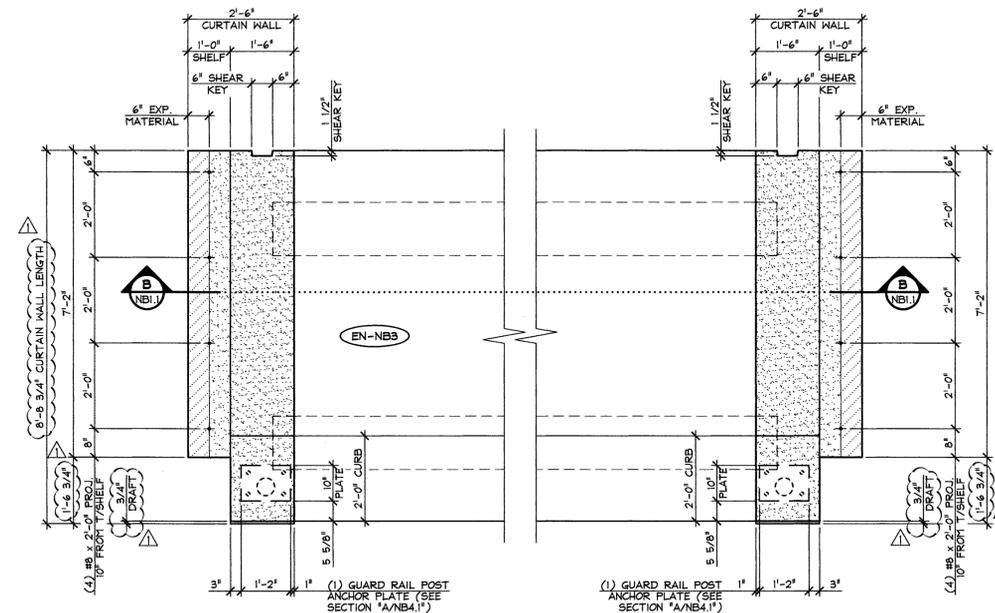
PRECAST CURTAIN WALL DETAILS DWG. NO: NB3.1



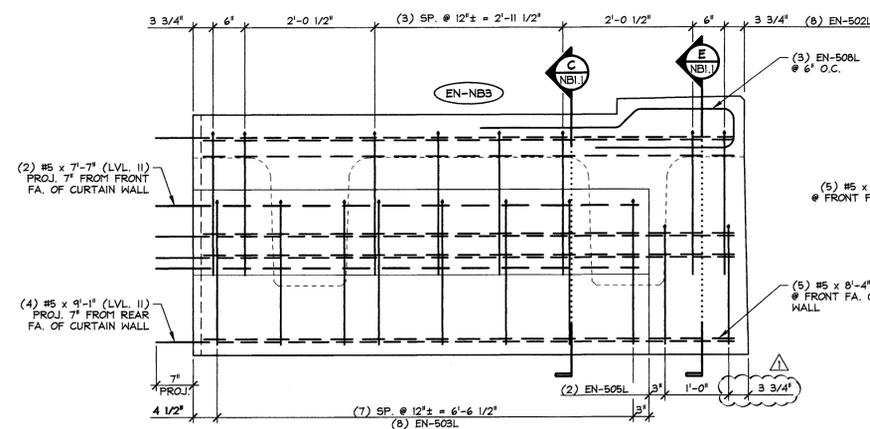
1 CURTAIN WALL DIMENSIONAL ELEVATION
NB4.1 VOL.: 2.12 cy WT.: 4.30 T 3/4" = 1'-0"



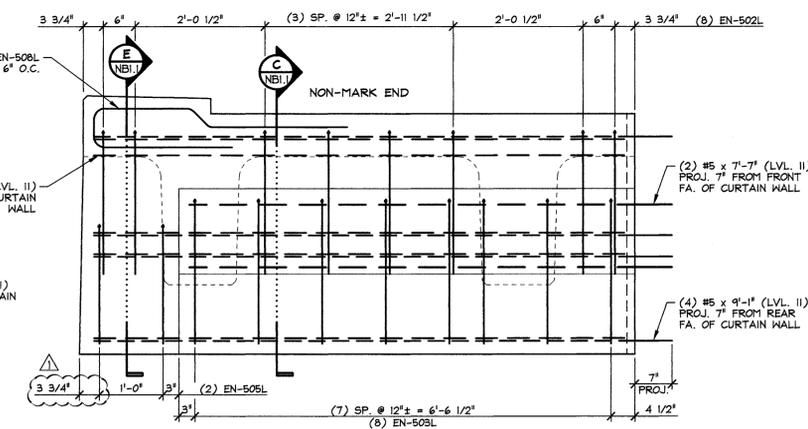
3 CURTAIN WALL DIMENSIONAL ELEVATION
NB4.1 VOL.: 2.12 cy WT.: 4.30 T 3/4" = 1'-0"



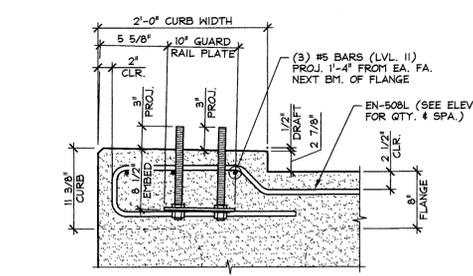
5 CURTAIN WALL DIMENSIONAL PLAN
NB4.1 1/2" = 1'-0"



2 CURTAIN WALL REINFORCING ELEVATION
NB4.1 3/4" = 1'-0"



4 CURTAIN WALL REINFORCING ELEVATION
NB4.1 3/4" = 1'-0"



A CURB & GUARD RAIL ANCHOR PLATE SECTION
NB4.1 1" = 1'-0"

59.12 T = NEXT BEAM
4.30 T = CURTAIN WALL (MARK END)
4.30 T = CURTAIN WALL (NON-MARK END)
67.7 T = TOTAL BEAM WT.

ISSUED FOR PRODUCTION
APR 09 2014
J. P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

MARK: EN-NB3 QTY.: 1

MATERIAL LIST / CURTAIN WALL				
ITEM	MARK	DESCRIPTION	QTY./CURTAIN WALL	
			MARK END	NON-MARK END
1	SH-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	8	8
2	SH-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	8	8
3	SH-505L	#5 BENT BAR (LEVEL II, DUAL COATED)	2	2
4	SH-508L	#5 BENT BAR (LEVEL II, DUAL COATED)	3	3
5				
6		#5 x 7'-7" (LVL. II, DUAL COATED)	2	2
7		#5 x 8'-4" (LVL. II, DUAL COATED)	5	5
8		#5 x 9'-1" (LVL. II, DUAL COATED)	4	4
9				
10				
11				
12				
13		GUARD RAIL ANCHOR PLATE (GALV.) (SUPPLIED BY OTHERS)	1	1
14		#8 x 2'-0" (LEVEL II, DUAL COATED)	4	4
15				

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APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 4-11-2014

By: James H. [Signature]

Stantec

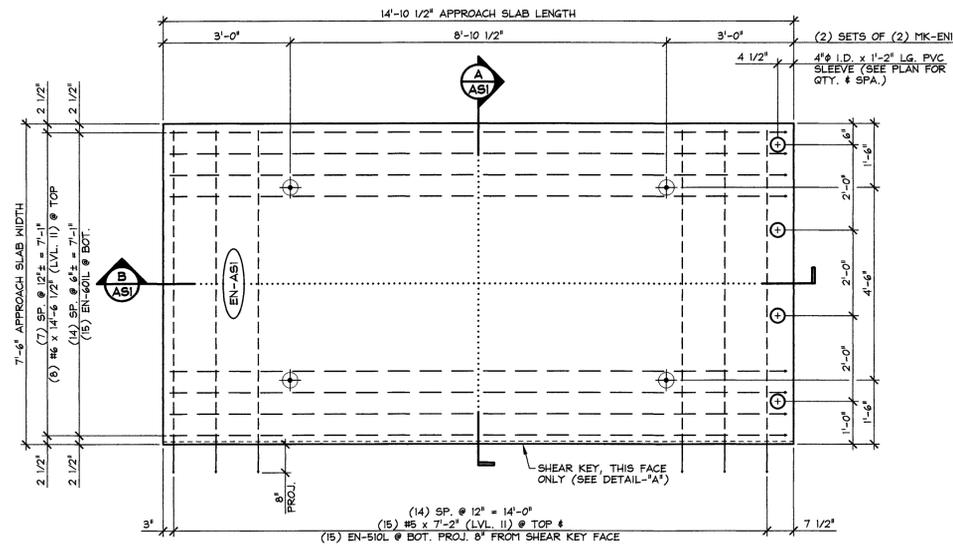
Vermont Agency of Transportation
RECEIVED
ON: April 9, 2014
and Checked for
CONFORMANCE
BY: Rob Young DATE: 04/14/2014

J.P. CARRARA & SONS INC. A.L. ST. ONGE CONTRACTOR, INC.
Precast & Prestress Manufacturer CONTRACTOR
2464 GISE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010 MONTGOMERY CENTER, VERMONT

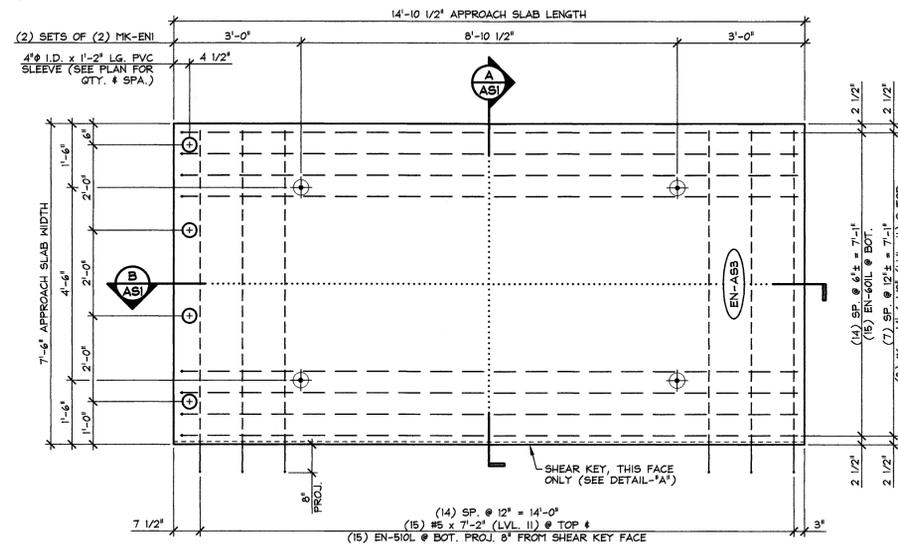
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN DATE: JAN. 27, 2014
SCALE: NOTED

TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40) CHKD: M.W. DFTM: B.L. JOB NO: 23416-013

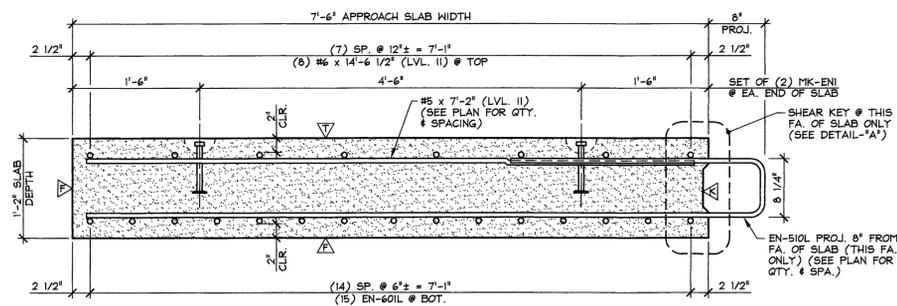
PRECAST CURTAIN WALL DETAILS DWG. NO: NB4.1



1 APPROACH SLAB PLAN VIEW IN FORM
ASI 1/2" = 1'-0"

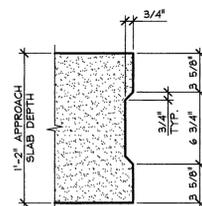


2 APPROACH SLAB PLAN VIEW IN FORM
ASI 1/2" = 1'-0"

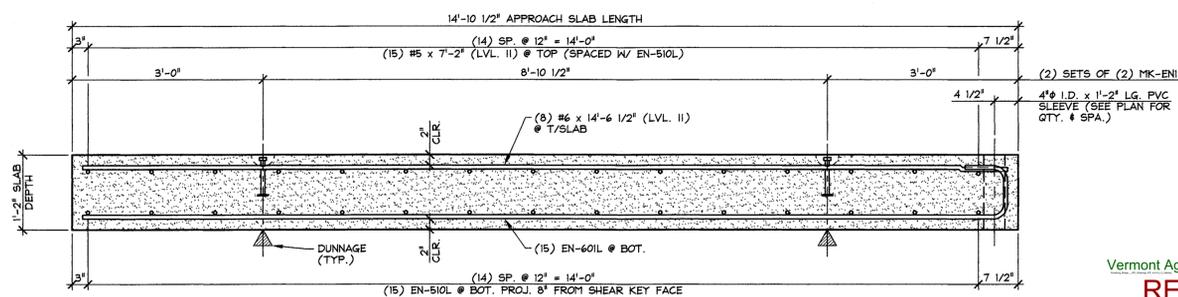


A TRANSVERSE SECTION
ASI 1" = 1'-0"

- ▲ DENOTES FORM FINISH
- ▲ DENOTES FLOAT FINISH
- ▲ DENOTES ROUGHENED FINISH



DETAIL - "A"
1 1/2" = 1'-0"



B LONGITUDINAL SECTION
ASI 3/4" = 1'-0"

ISSUED FOR PRODUCTION
APR 09 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

MARK: EN-ASI	QTY.: 1	WT.: 9.7 T	VOL.: 4.8 cy
MARK: EN-AS3	QTY.: 1	WT.: 9.7 T	VOL.: 4.8 cy

MATERIAL LIST / APPROACH SLAB				
ITEM	MARK	DESCRIPTION	QTY./SLAB	
			EN-ASI	EN-AS3
1	EN-510L	#5 BENT BAR (LEVEL II, DUAL COATED)	15	15
2		#5 x 7'-2" (LEVEL II, DUAL COATED)	15	15
3				
4				
5	EN-60IL	#6 BENT BAR (LEVEL II, DUAL COATED)	15	15
6		#6 x 14'-6 1/2" (LEVEL II, DUAL COATED)	8	8
7				
8	MK-ENI	4T x 7 1/8" SWIFT LIFT LIFTER (GALVANIZE) ▲	4	4
9		4" I.D. x 1'-2" PVC SLEEVE	4	4
10				

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APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 4-11-2014

By: James H. [Signature]

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Stantec

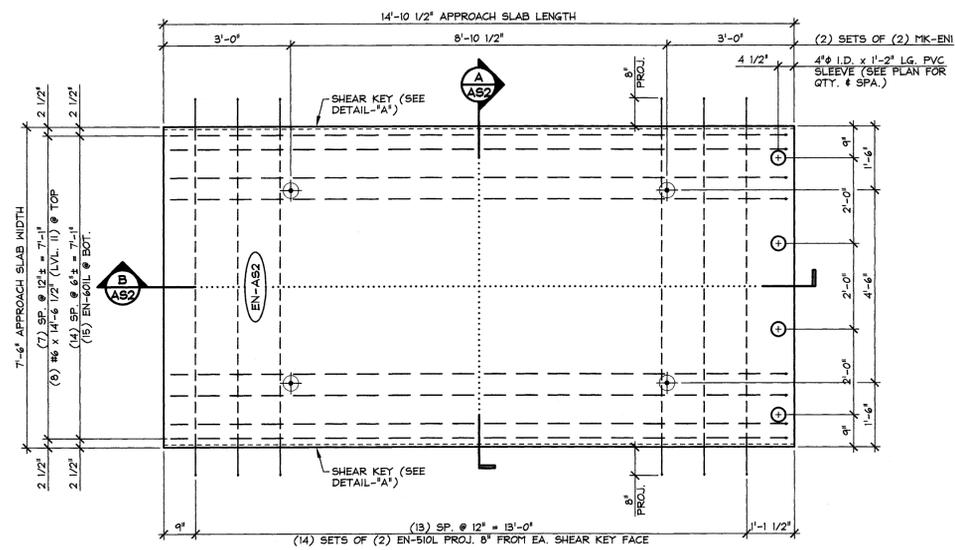
Vermont Agency of Transportation
RECEIVED
ON: April 9, 2014
and Checked for CONFORMANCE
BY: Rob Young DATE: 04/14/2014

J.P. CARRARA & SONS INC. A.L. ST. ONGE CONTRACTOR, INC.
Precast & Prestress Manufacturer CONTRACTOR
2464 CASE CIR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010 MONTGOMERY CENTER, VERMONT

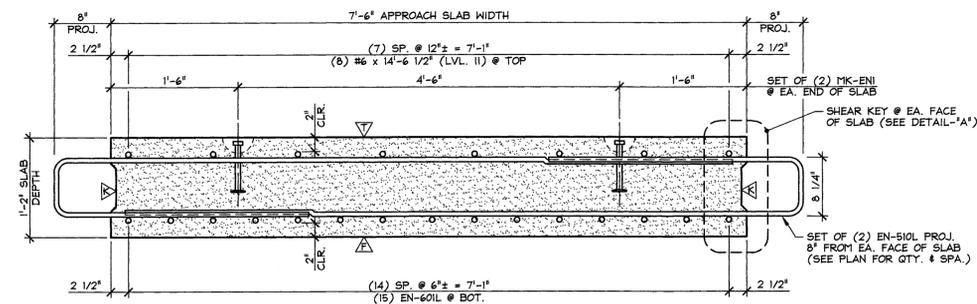
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN DATE: JAN. 27, 2014
SCALE: NOTED

TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40) CHKD: M.J.W. DFTM: B.L. JOB NO: 23418-013

PRECAST APPROACH SLAB DETAILS DWG. NO: ASI

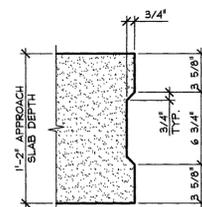


I APPROACH SLAB PLAN VIEW IN FORM
AS2
1/2" = 1'-0"

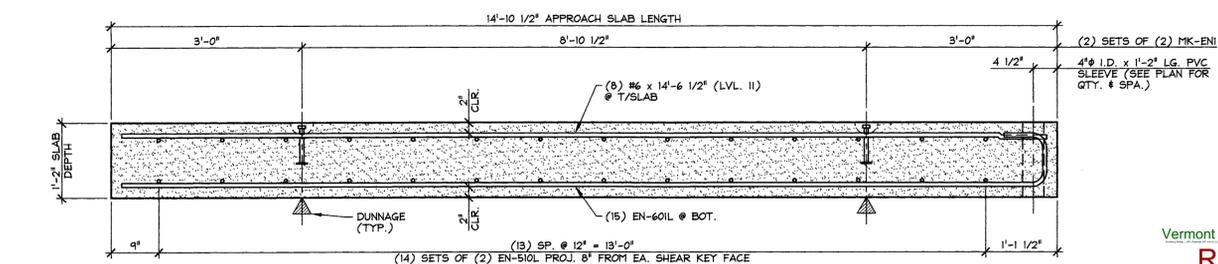


A TRANSVERSE SECTION
AS2
1" = 1'-0"

- △ DENOTES FORM FINISH
- △ DENOTES FLOAT FINISH
- △ DENOTES ROUGHENED FINISH



DETAIL - "A" II
1 1/2" = 1'-0"



B LONGITUDINAL SECTION
AS2
3/4" = 1'-0"

ISSUED FOR PRODUCTION
APR 09 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

MARK: EN-AS2	QTY.: 2	WT.: 9.7 T	VOL.: 4.8 cy
MARK: -	QTY.: -	WT.: -	VOL.: -
MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY./SLAB
1	EN-SIOL	#5 BENT BAR (LEVEL II, DUAL COATED)	28
2			
3			
4	EN-60IL	#6 BENT BAR (LEVEL II, DUAL COATED)	15
5		#6 x 14'-6 1/2" (LEVEL II, DUAL COATED)	8
6			
7			
8	MK-ENI	4T x 7 1/8" SWIFT LIFT LIFTER (GALVANIZE) △	4
9		4" I.D. x 1'-2" PVC SLEEVE (SEE PLAN FOR QTY. & SPA.)	4
10			

APPROVED. Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 4-11-2014

By: James Hyland

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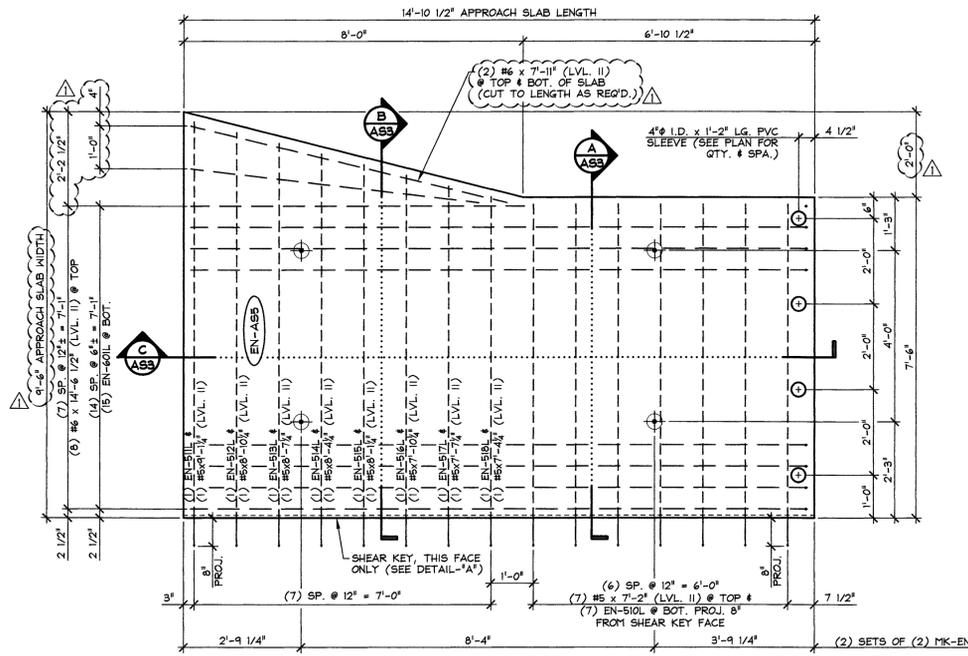
Vermont Agency of Transportation
RECEIVED
ON: April 9, 2014
and Checked for
CONFORMANCE
BY: Rob Young DATE: 04/14/2014

J.P. CARRARA & SONS INC. A.L. St. ONGE CONTRACTOR, INC.
Precast & Prestress Manufacturer
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010 MONTGOMERY CENTER, VERMONT

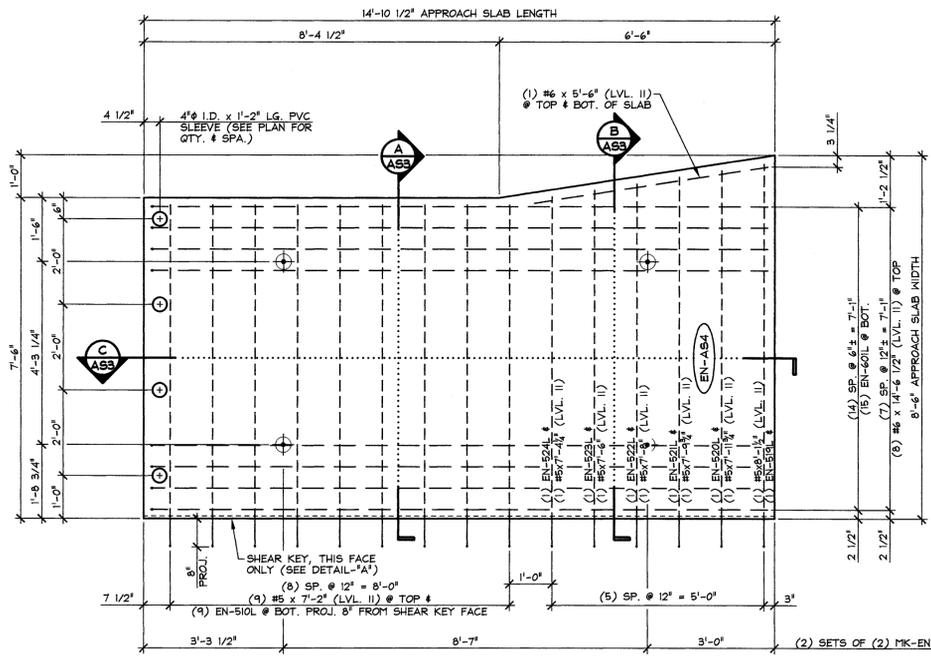
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN
DATE: JAN. 27, 2014
SCALE: NOTED

TOWN OF ENOSBURG
BOSTON POST ROAD T.H.2 CLASS 2
BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40)
CHKD: M.N. DFTM: B.L.
JOB NO: 23418-013

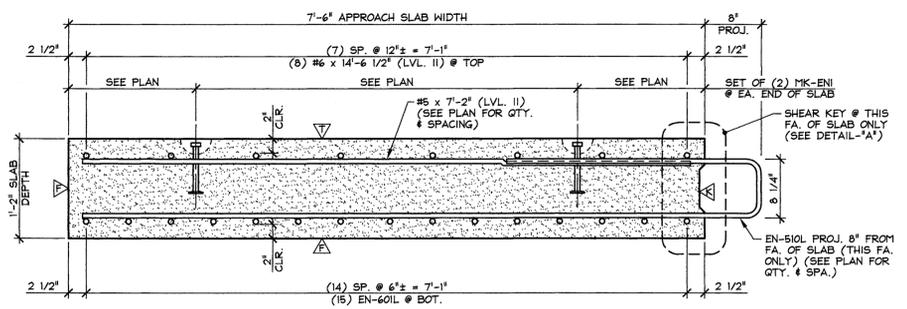
PRECAST APPROACH SLAB DETAILS DWG. NO: AS2



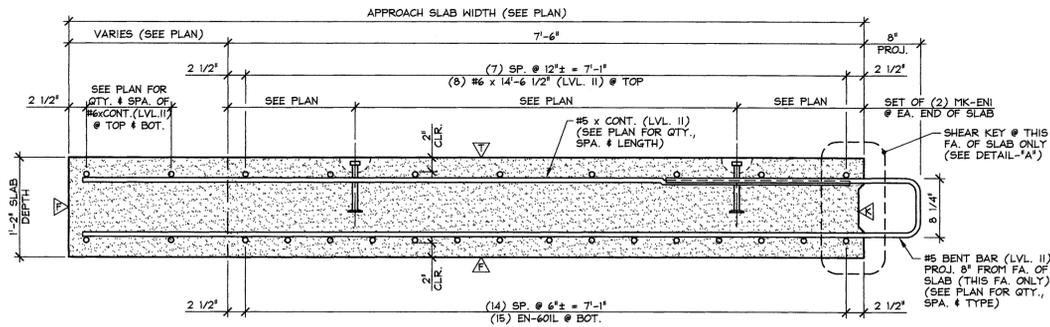
1 APPROACH SLAB PLAN VIEW IN FORM
AS3
1/2" = 1'-0"



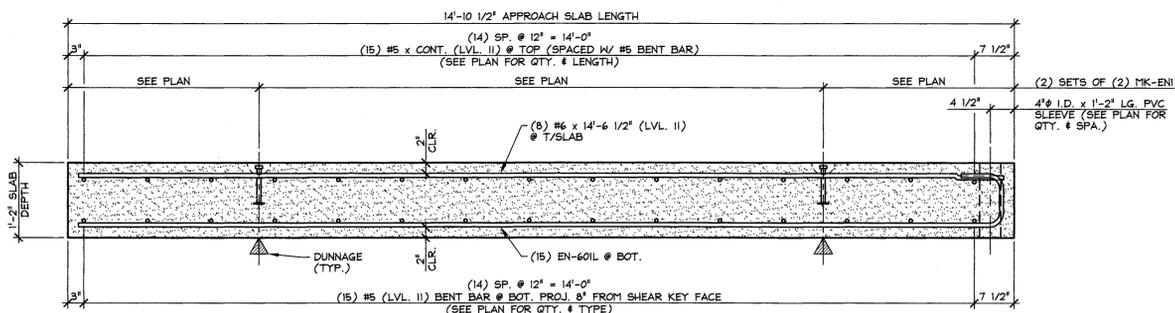
2 APPROACH SLAB PLAN VIEW IN FORM
AS3
1/2" = 1'-0"



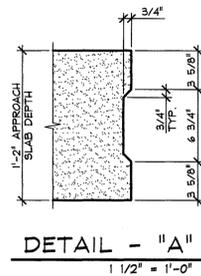
A TRANSVERSE SECTION
AS3
1" = 1'-0"



B TRANSVERSE SECTION
AS3
1" = 1'-0"



C LONGITUDINAL SECTION
AS3
3/4" = 1'-0"



DETAIL - "A"
1 1/2" = 1'-0"

Vermont Agency of Transportation
RECEIVED
ON: April 9, 2014
and Checked for
CONFORMANCE
BY: Rob Young DATE: 04/14/2014

ISSUED FOR PRODUCTION
APR 09 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

MARK: EN-AS5	QTY.: 1	WT.: 10.81 T	VOL.: 5.34 cy
MARK: EN-AS4	QTY.: 1	WT.: 10.05 T	VOL.: 4.96 cy

MATERIAL LIST / APPROACH SLAB				
ITEM	MARK	DESCRIPTION	QTY./SLAB	
			EN-AS5	EN-AS4
1	EN-510L	#5 BENT BAR (LEVEL II, DUAL COATED)	7	9
2	EN-511L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
3	EN-512L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
4	EN-513L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
5	EN-514L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
6	EN-515L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
7	EN-516L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
8	EN-517L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
9	EN-518L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
10	EN-519L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
11	EN-520L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
12	EN-521L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
13	EN-522L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
14	EN-523L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
15	EN-524L	#5 BENT BAR (LEVEL II, DUAL COATED)	1	
16		#5 x 7'-2" (LEVEL II, DUAL COATED)	7	9
17		#5 x 9'-1 1/4" (LEVEL II, DUAL COATED)	1	
18		#5 x 8'-10 1/4" (LEVEL II, DUAL COATED)	1	
19		#5 x 8'-7 1/4" (LEVEL II, DUAL COATED)	1	
20		#5 x 8'-4 1/4" (LEVEL II, DUAL COATED)	1	
21		#5 x 8'-1 1/4" (LEVEL II, DUAL COATED)	1	
22		#5 x 7'-10 1/4" (LEVEL II, DUAL COATED)	1	
23		#5 x 7'-7 1/4" (LEVEL II, DUAL COATED)	1	
24		#5 x 7'-4 1/4" (LEVEL II, DUAL COATED)	1	
25		#5 x 8'-1 1/2" (LEVEL II, DUAL COATED)	1	
26		#5 x 7'-11 3/4" (LEVEL II, DUAL COATED)	1	
27		#5 x 7'-9 3/4" (LEVEL II, DUAL COATED)	1	
28		#5 x 7'-8" (LEVEL II, DUAL COATED)	1	
29		#5 x 7'-6" (LEVEL II, DUAL COATED)	1	
30		#5 x 7'-4 1/4" (LEVEL II, DUAL COATED)	1	
31				
32	EN-601L	#6 BENT BAR (LEVEL II, DUAL COATED)	15	15
33		#6 x 14'-6 1/2" (LEVEL II, DUAL COATED)	8	8
34		#6 x 7'-11" (LEVEL II, DUAL COATED)	4	
35		#6 x 5'-6" (LEVEL II, DUAL COATED)	2	
36				
37	MK-EN1	4T x 7 1/8" SWIFT LIFT LIFTER (GALVANIZE)	4	4
38		4" I.D. x 1'-2" PVC SLEEVE	4	4
39				
40				

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 4-11-2014

By: James H. [Signature]

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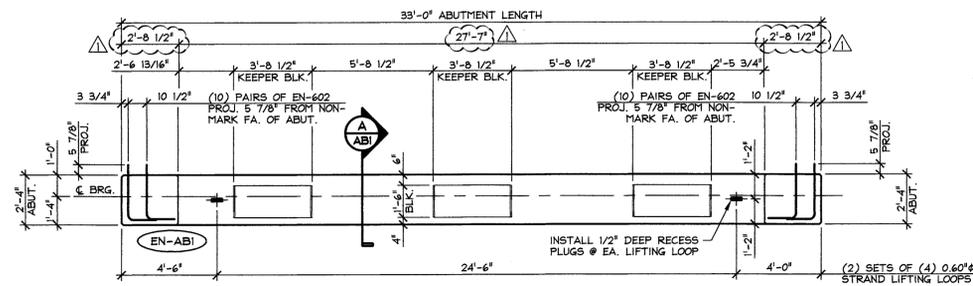


J.P. CARRARA & SONS INC. A.L. St. ONGE CONTRACTOR, INC.
Precast & Prestress Manufacturer CONTRACTOR
2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010 MONTGOMERY CENTER, VERMONT

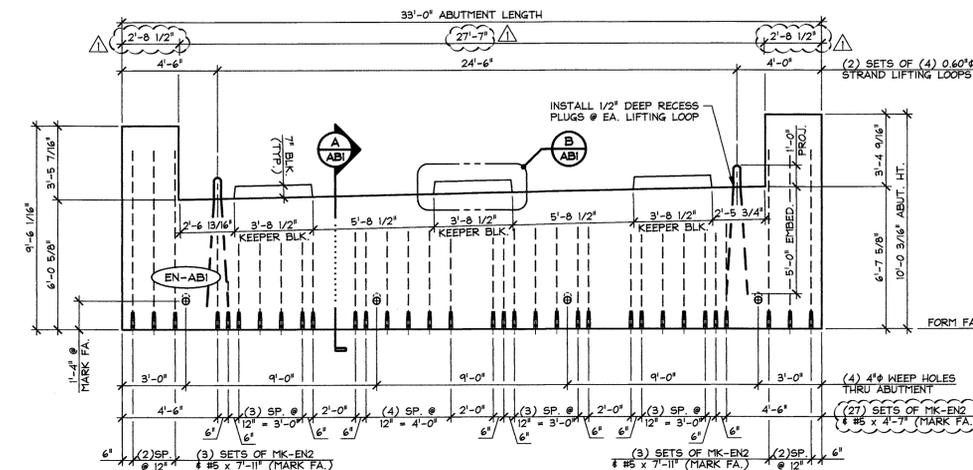
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN DATE: JAN. 27, 2014
SCALE: NOTED

TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 CHKD: M.W. DFTM: B.L.
BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40) JOB NO: 23418-013

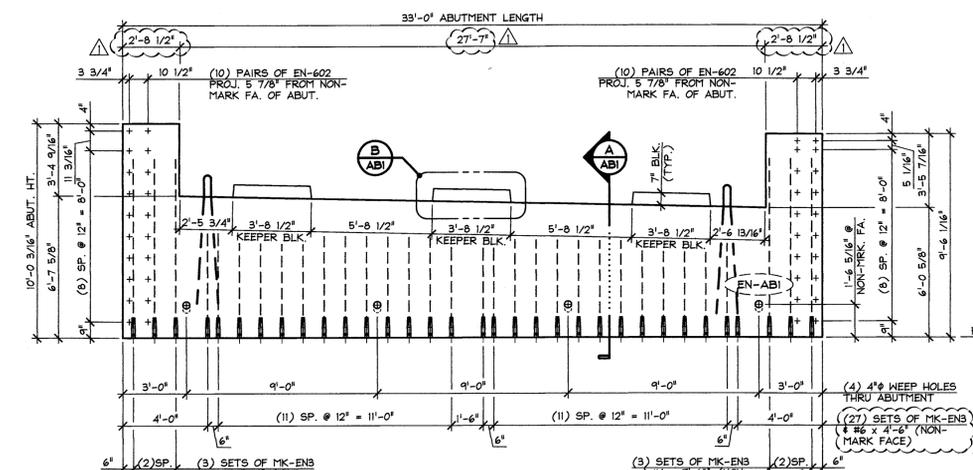
PRECAST APPROACH SLAB DETAILS DWG. NO: AS3



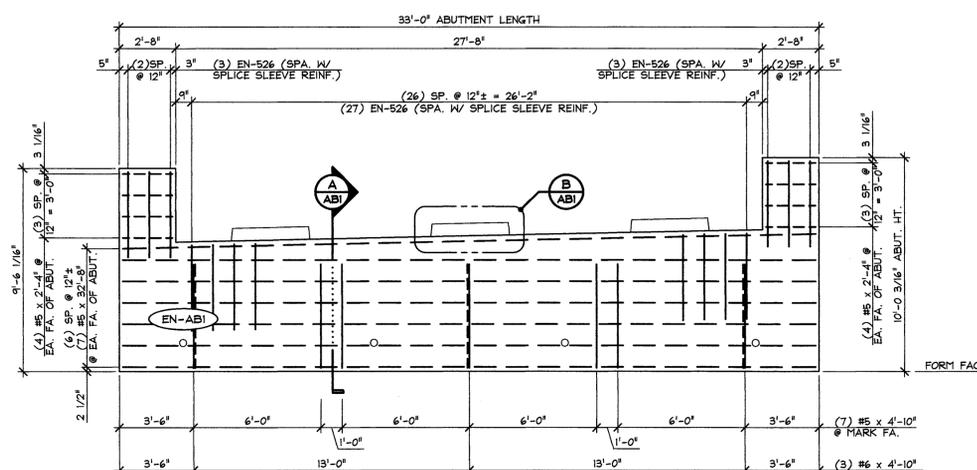
1 DIMENSIONAL PLAN VIEW IN FORM
ABI
1/4" = 1'-0"



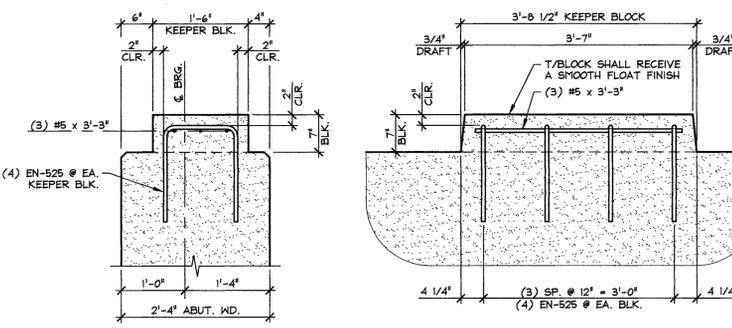
2 DIMENSIONAL ELEVATION (MARK FACE)
ABI
1/4" = 1'-0"



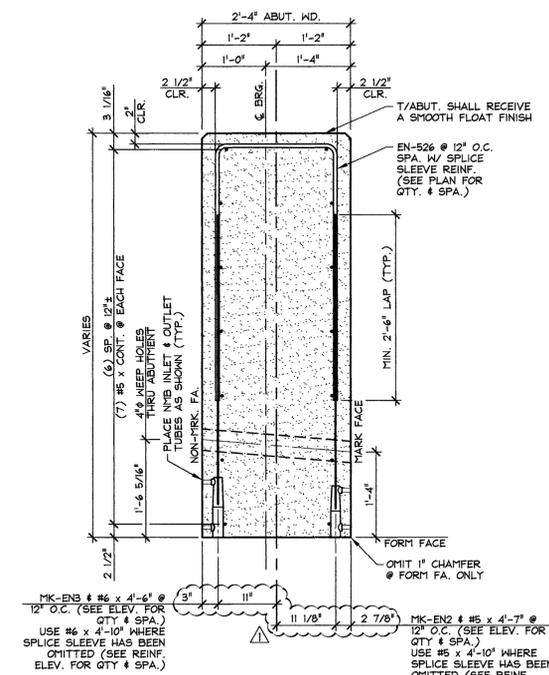
3 DIMENSIONAL ELEVATION (NON-MARK FACE)
ABI
1/4" = 1'-0"



4 REINFORCING ELEVATION
ABI
1/4" = 1'-0"



B KEEPER BLOCK DETAILS
ABI
3/4" = 1'-0"



A ABUTMENT SECTION
ABI
3/4" = 1'-0"

SHOP NOTE:
ALL EDGES OF ABUTMENT SHALL RECEIVE A 1" CHAMFER (U.N.O.)

SHOP NOTE:
F_c = 5,000 PSI
F_{cl} = 4,000 PSI
MIX: #445M5CC

ISSUED FOR PRODUCTION
APR 09 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

MARK:	EN-ABI	QTY.:	1	WT.:	40.54 T	VOL.:	20.02 cy
MATERIAL LIST / ABUTMENT							
ITEM	MARK	DESCRIPTION	QTY.				
1	EN-525	#5 BENT BAR (LEVEL I, BLACK STEEL)	12				
2	EN-526	#5 BENT BAR (LEVEL I, BLACK STEEL)	33				
3		#5 x 3'-3" (LEVEL I, BLACK STEEL)	9				
4		#5 x 4'-7" (LEVEL I, BLACK STEEL)	27				
5		#5 x 4'-10" (LEVEL I, BLACK STEEL)	7				
6		#5 x 7'-11" (LEVEL I, BLACK STEEL)	6				
7		#5 x 32'-8" (LEVEL I, BLACK STEEL)	14				
8		#5 x 2'-4" (LEVEL I, BLACK STEEL)	16				
9							
10	EN-602	#6 BENT BAR (LEVEL I, BLACK STEEL)	40				
11		#6 x 4'-6" (LEVEL I, BLACK STEEL)	27				
12		#6 x 4'-10" (LEVEL I, BLACK STEEL)	3				
13		#6 x 7'-10" (LEVEL I, BLACK STEEL)	6				
14							
15							
16							
17	MK-EN2	NMB SPLICE SLEEVE 5U-X(PG) (BLACK STEEL)	33				
18	MK-EN3	NMB SPLICE SLEEVE 6U-X(PG) (BLACK STEEL)	33				
19		SET OF (4) 0.60" STRAND LIFTING LOOPS	2				
20							

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 4-11-2014

By: James H. [Signature]



This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

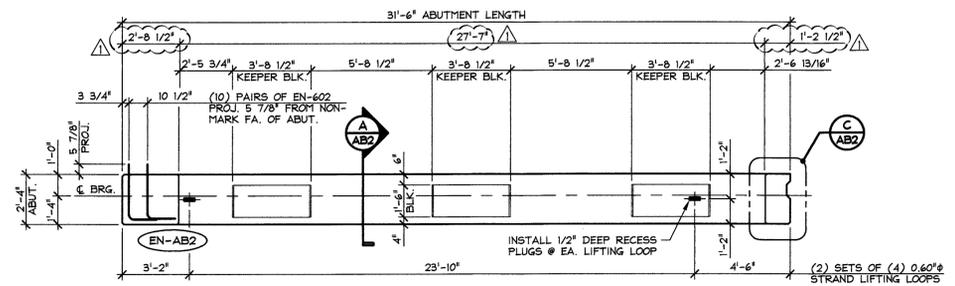
Vermont Agency of Transportation
RECEIVED
ON: April 9, 2014
and Checked for
CONFORMANCE
BY: Rob Young DATE: 04/14/2014

J.P. CARRARA & SONS INC. A.L. ST. ONGE CONTRACTOR, INC.
Precast & Prestress Manufacturer CONTRACTOR
244 OISE ST., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010 MONTGOMERY CENTER, VERMONT

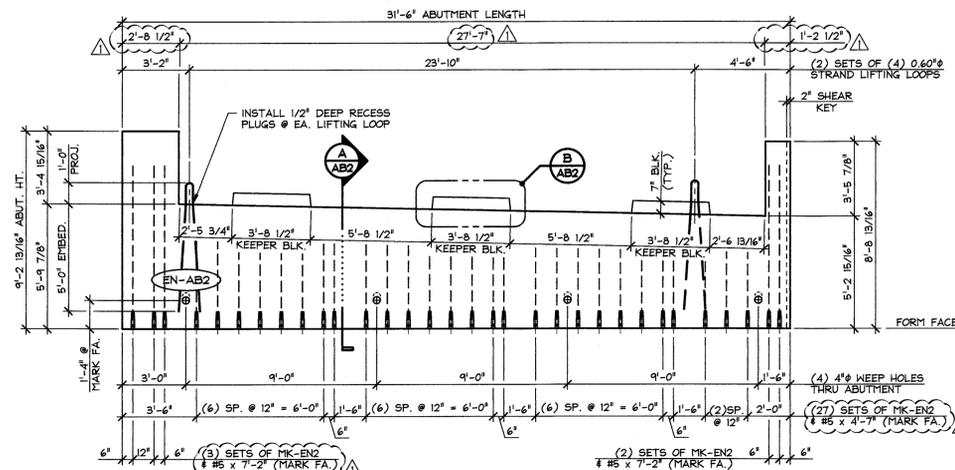
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN DATE: JAN. 27, 2014 SCALE: NOTED

TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40) CHKD: M.W. DFTM: B.L. JOB NO: 23416-013

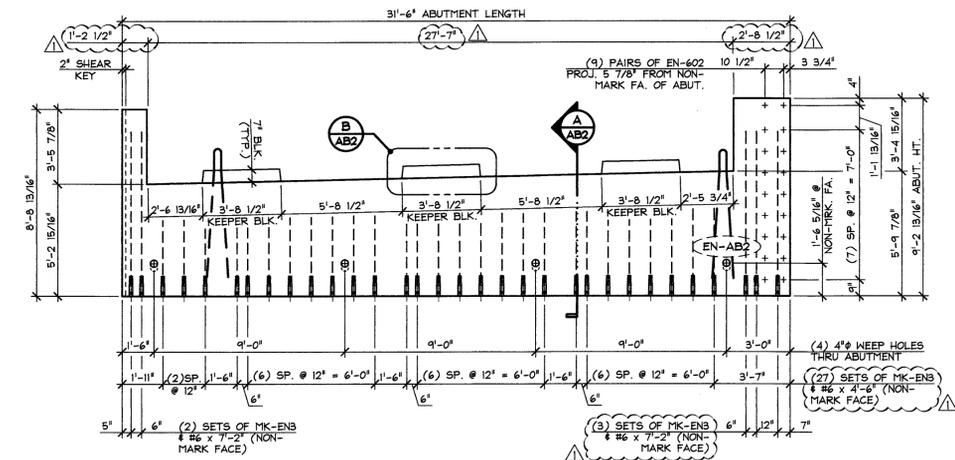
PRECAST ABUTMENT DETAILS DWG. NO: ABI



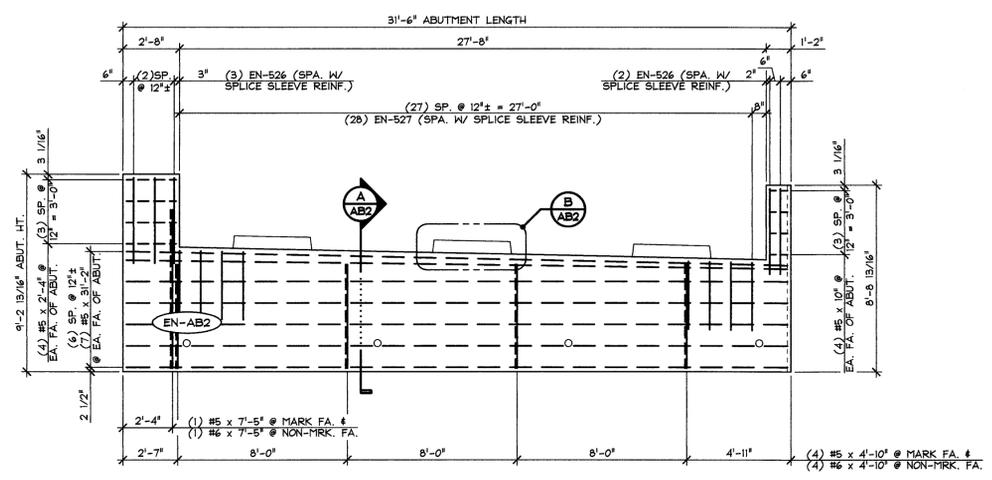
1 DIMENSIONAL PLAN VIEW IN FORM
AB2
1/4" = 1'-0"



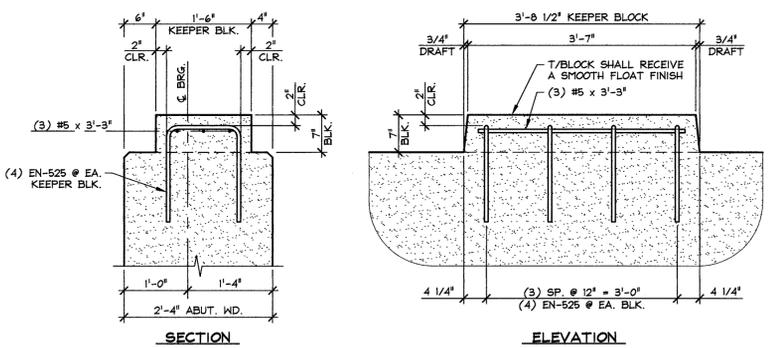
2 DIMENSIONAL ELEVATION (MARK FACE)
AB2
1/4" = 1'-0"



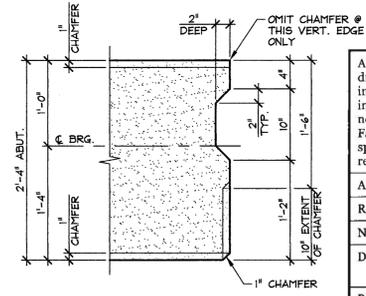
3 DIMENSIONAL ELEVATION (NON-MARK FACE)
AB2
1/4" = 1'-0"



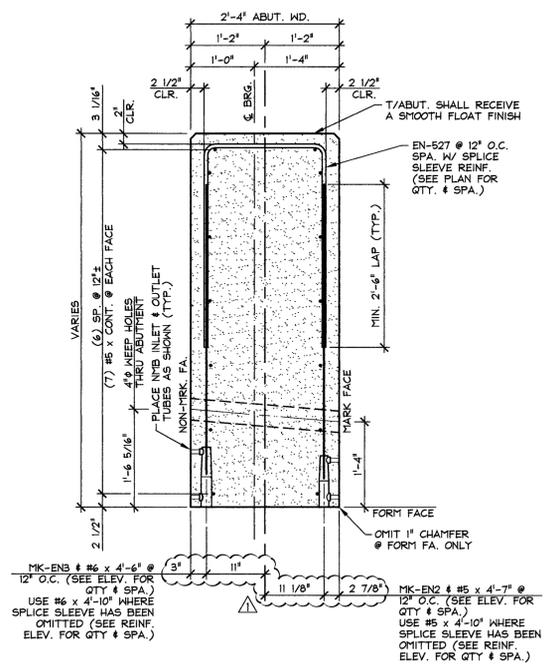
4 REINFORCING ELEVATION
AB2
1/4" = 1'-0"



B KEEPER BLOCK DETAILS
AB2
3/4" = 1'-0"



C SHEAR KEY PLAN
AB2
1" = 1'-0"



A ABUTMENT SECTION
AB2
3/4" = 1'-0"

SHOP NOTE:
ALL EDGES OF ABUTMENT SHALL RECEIVE A 1" CHAMFER (U.N.O.)

ISSUED FOR PRODUCTION
APR 09 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

MARK: EN-AB2 QTY.: 1 WT.: 33.53 T VOL.: 16.56 cy

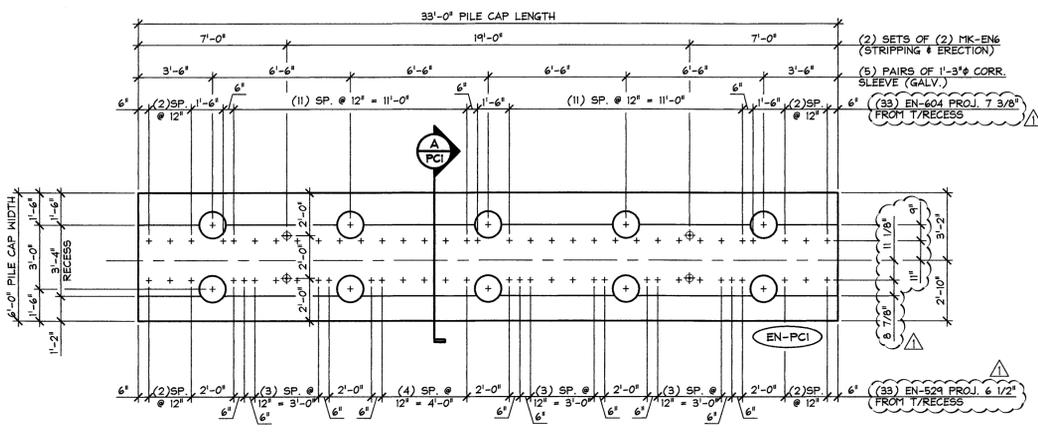
MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	EN-525	#5 BENT BAR (LEVEL I, BLACK STEEL)	12
2	EN-526	#5 BENT BAR (LEVEL I, BLACK STEEL)	5
3	EN-527	#5 BENT BAR (LEVEL I, BLACK STEEL)	28
4		#5 x 3'-3" (LEVEL I, BLACK STEEL)	9
5		#5 x 4'-7" (LEVEL I, BLACK STEEL)	(27)
6		#5 x 4'-10" (LEVEL I, BLACK STEEL)	4
7		#5 x 7'-2" (LEVEL I, BLACK STEEL)	(5)
8		#5 x 3'-2" (LEVEL I, BLACK STEEL)	14
9		#5 x 2'-4" (LEVEL I, BLACK STEEL)	8
10		#5 x 7'-5" (LEVEL I, BLACK STEEL)	1
11		#5 x 10" (LEVEL I, BLACK STEEL)	8
12			
13	EN-602	#6 BENT BAR (LEVEL I, BLACK STEEL)	18
14		#6 x 4'-6" (LEVEL I, BLACK STEEL)	(27)
15		#6 x 4'-10" (LEVEL I, BLACK STEEL)	4
16		#6 x 7'-2" (LEVEL I, BLACK STEEL)	(5)
17		#6 x 7'-5" (LEVEL I, BLACK STEEL)	1
18			
19			
20			
21	MK-EN2	NMB SPLICE SLEEVE 5U-X(PG) (BLACK STEEL)	(32)
22	MK-EN3	NMB SPLICE SLEEVE 6U-X(PG) (BLACK STEEL)	(32)
23		SET OF (4) 0.60" STRAND LIFTING LOOPS	2
24			
25			

Vermont Agency of Transportation
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ON: April 9, 2014
and Checked for
CONFORMANCE
BY: Rob Young DATE: 04/14/2014

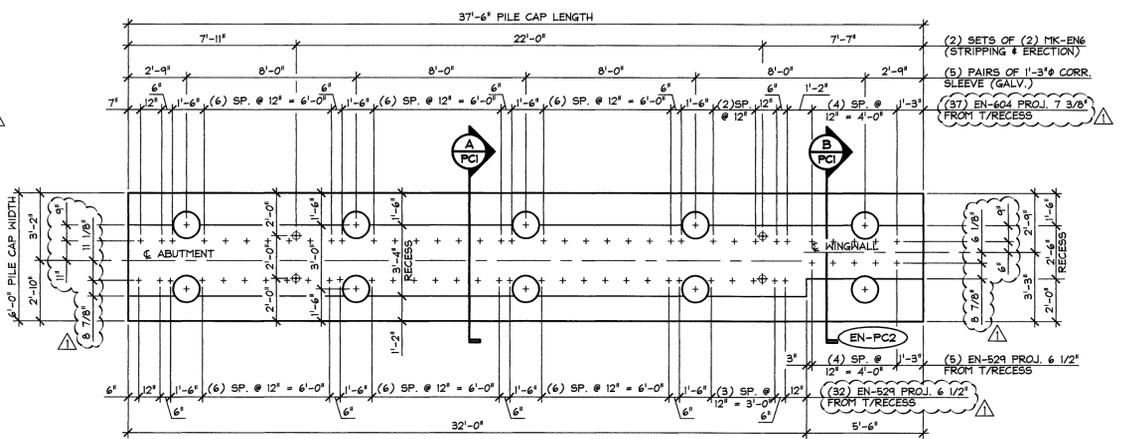
APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements	X	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		

Date: 4-11-2014
By: James H. [Signature]
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

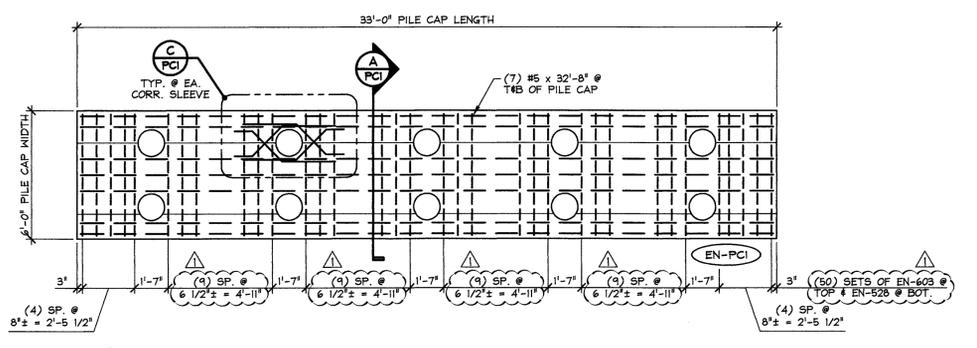
J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 DEXE CIR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	A.L. ST. ONGE CONTRACTOR, INC. CONTRACTOR MONTGOMERY CENTER, VERMONT
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN	DATE: JAN. 27, 2014 SCALE: NOTED
TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40)	CHKD: M.W. DFTM: B.L. JOB NO: 23418-013
PRECAST ABUTMENT DETAILS	DWG. NO: AB2



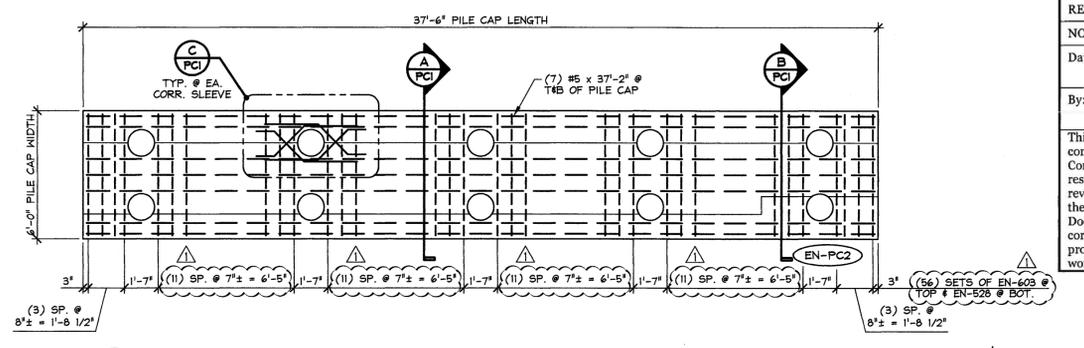
1 DIMENSIONAL PLAN VIEW IN FORM
PCI
1/4" = 1'-0"



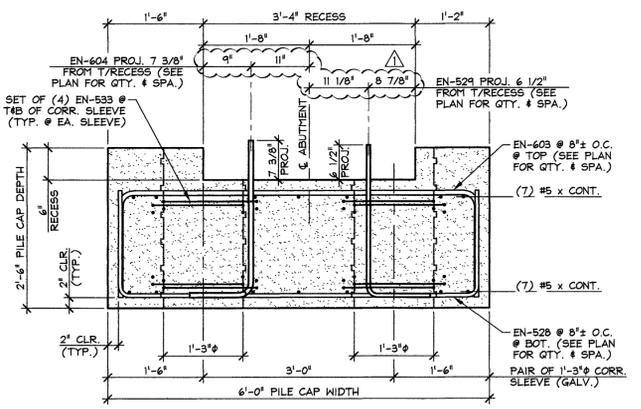
3 DIMENSIONAL PLAN VIEW IN FORM
PCI
1/4" = 1'-0"



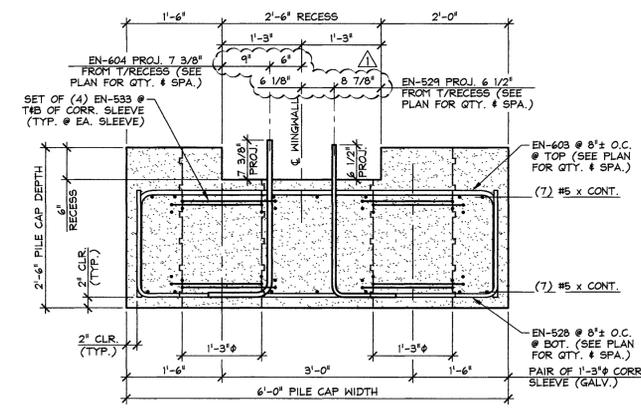
2 REINFORCING PLAN VIEW IN FORM
PCI
1/4" = 1'-0"



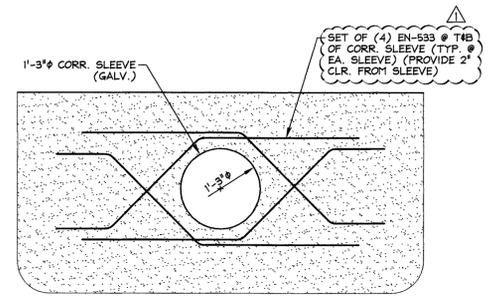
4 REINFORCING PLAN VIEW IN FORM
PCI
1/4" = 1'-0"



A PILE CAP SECTION
PCI
3/4" = 1'-0"



B PILE CAP SECTION
PCI
3/4" = 1'-0"



C CORRUGATED SLEEVE REINFORCING DETAIL
PCI
3/4" = 1'-0"

Vermont Agency of Transportation
RECEIVED
ON: April 9, 2014
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CONFORMANCE
BY: Rob Young DATE: 04/14/2014

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements	X	Stantec
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date: 4-11-2014		
By: James Hynes		
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication process or to techniques of construction and installation and for coordination of the work of all subtrades.		

SHOP NOTE:
f'c = 5,000 PSI
f'dl = 3,500 PSI
MIX: #446R19CC

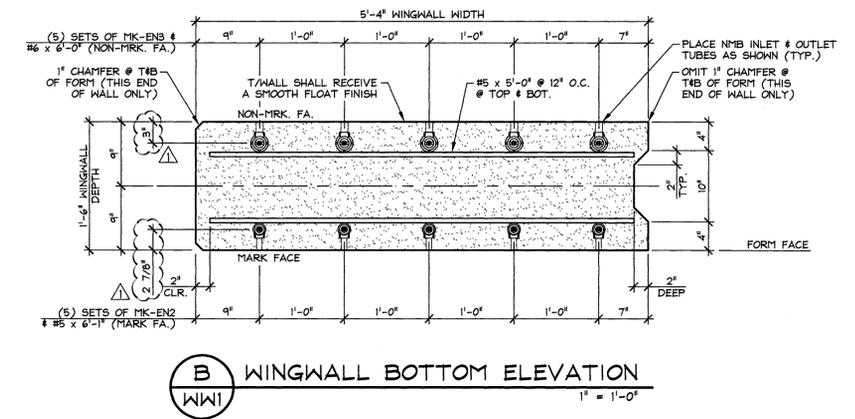
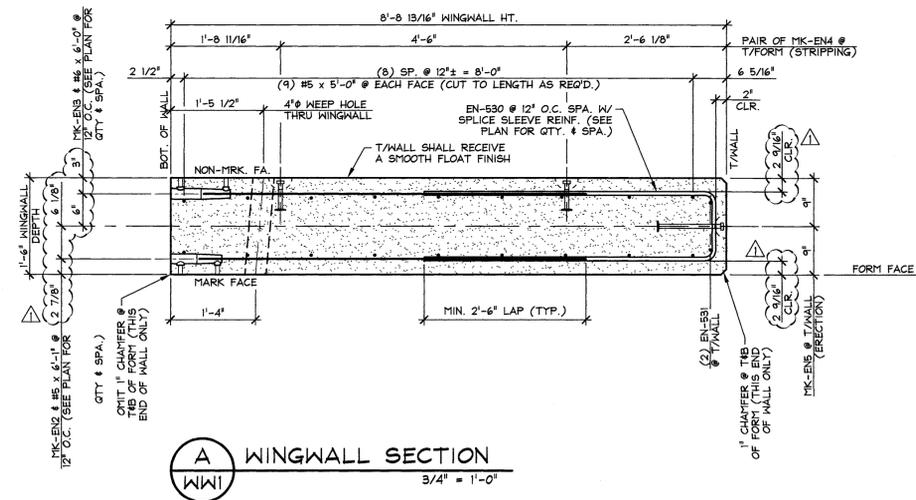
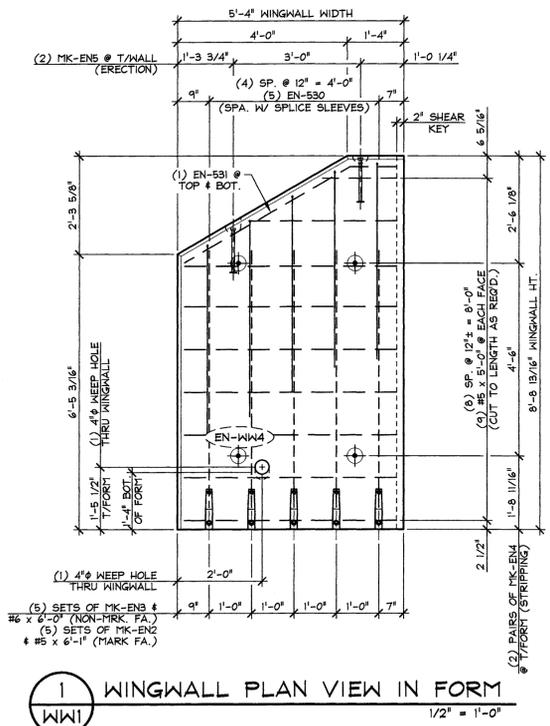
ISSUED FOR PRODUCTION
APR 09 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

MARK: EN-PC1	QTY.: 1	WT.: 31.2 T	VOL.: 15.4 cy
MARK: EN-PC2	QTY.: 1	WT.: 35.8 T	VOL.: 17.7 cy

MATERIAL LIST / PILE CAP			
ITEM	MARK	DESCRIPTION	QTY./PILE CAP
1	EN-528	#5 BENT BAR (LEVEL I, BLACK STEEL)	(50) (56)
2	EN-529	#5 BENT BAR (LEVEL I, BLACK STEEL)	(33) (37)
3	EN-533	#5 BENT BAR (LEVEL I, BLACK STEEL)	80 80
4		#5 x 32'-8" (LEVEL I, BLACK STEEL)	14
5		#5 x 37'-2" (LEVEL I, BLACK STEEL)	14
6			
7	EN-603	#6 BENT BAR (LEVEL I, BLACK STEEL)	(50) (56)
8	EN-604	#6 BENT BAR (LEVEL I, BLACK STEEL)	(33) (37)
9			
10		1'-3" x 2'-6" CORRUGATED SLEEVE (GALV.)	10 10
11			
12	MK-EN6	20 T x 19 3/4" SWIFT LIFT LIFTER	4 4
13			
14			
15			

4-7-14 REVISED AS NOTED

APPROVAL STAMP:	J.P. CARRARA & SONS INC. A.L. ST. ONGE CONTRACTOR, INC. Precast & Prestress Manufacturer 2444 OASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010 MONTGOMERY CENTER, VERMONT
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN	DATE: JAN. 27, 2014 SCALE: NOTED
TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40)	CHKD: M.W. DFTM: B.L. JOB NO: 23418-013
PRECAST PILE CAP DETAILS	DWG. NO: PCI



Vermont Agency of Transportation
RECEIVED
 ON: April 9, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 04/14/2014

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements	X	
APPROVED AS NOTED		
REVISION AND RESUBMIT		
NOT REVIEWED		
Date: 4-11-2014		
By: <i>James H. [Signature]</i>		
This review of Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.		

SHOP NOTE:
 ALL EDGES OF WING WALLS, FORM FACE & T/WALL FACE, SHALL RECEIVE A 1" CHAMFER (UNLESS NOTED OTHERWISE)

SHOP NOTE:
 Fc = 5,000 PSI
 Fcd = 3,500 PSI
 MIX: #445M5CC

ISSUED FOR PRODUCTION
 APR 09 2014
 J.P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753

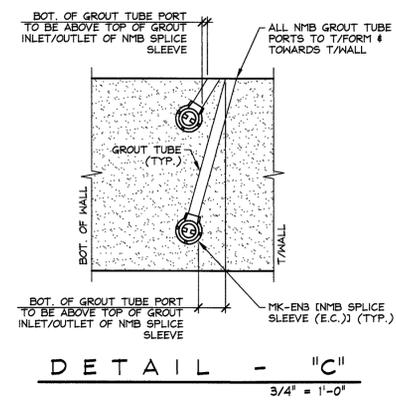
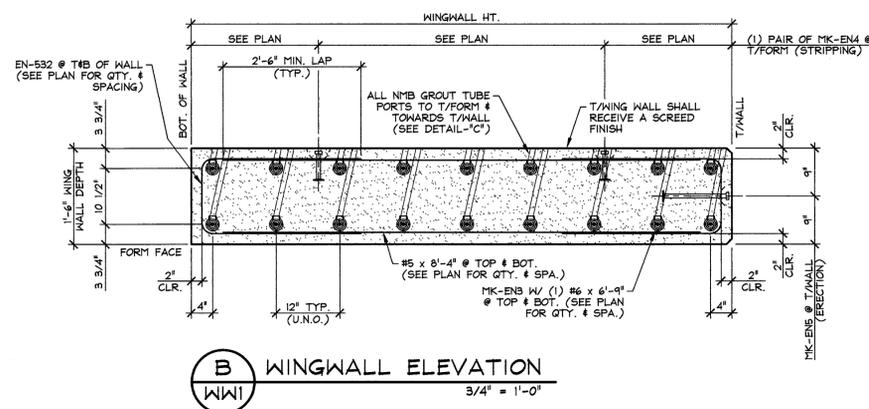
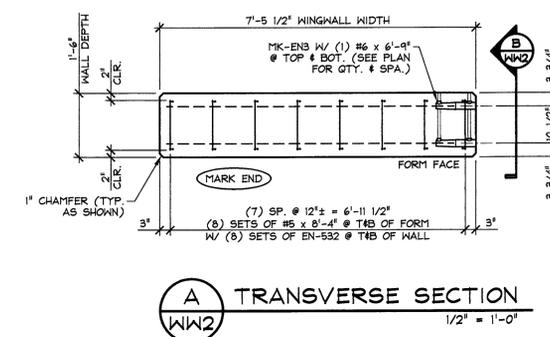
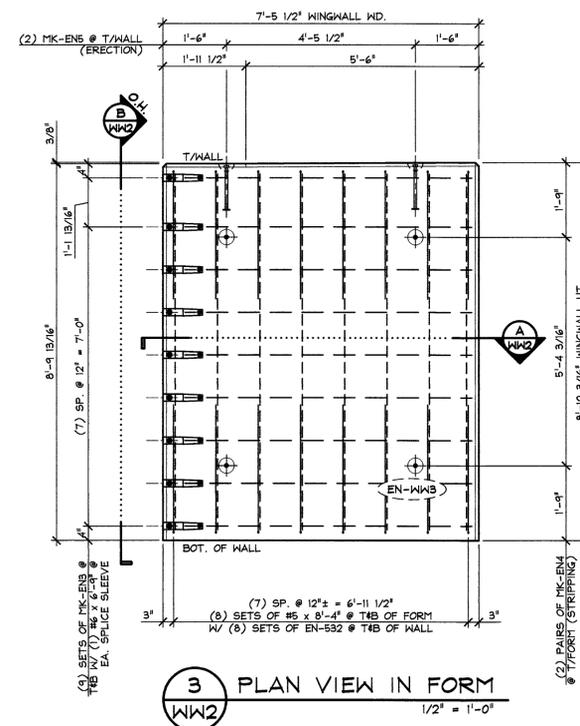
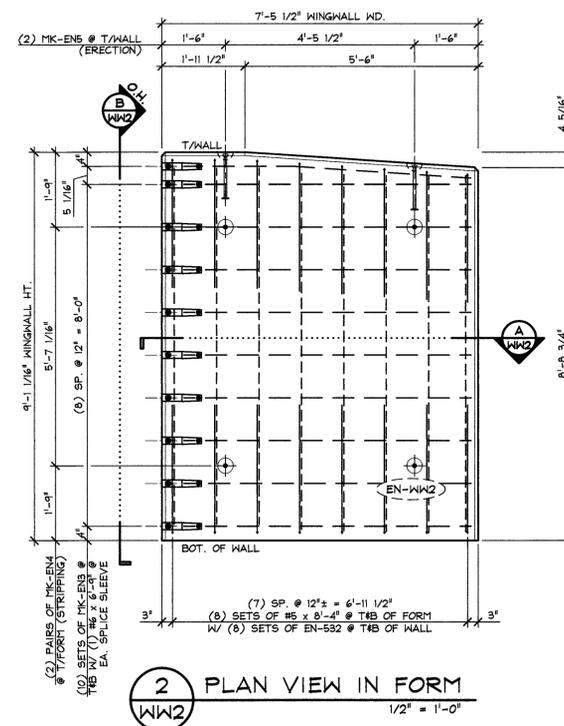
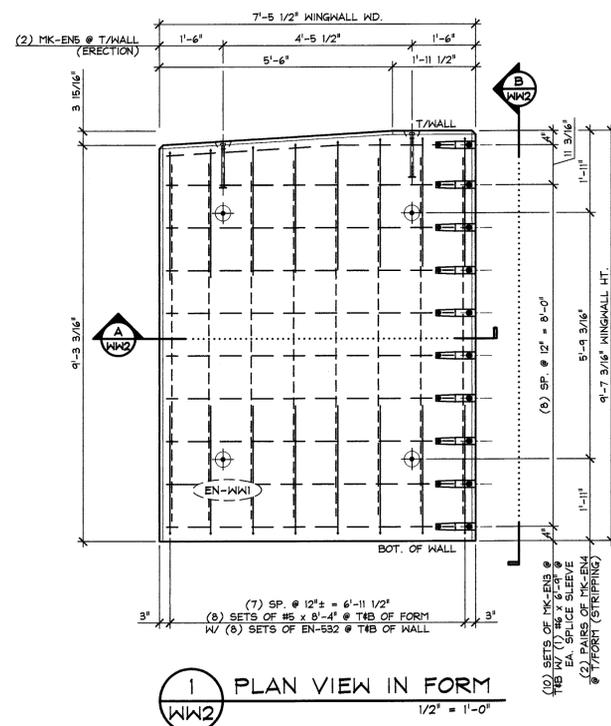
MARK: EN-WW4	QTY.: 1	WT.: 4.65 T	VOL.: 2.30 cy
MATERIAL LIST / WINGWALL			
ITEM	MARK	DESCRIPTION	QTY.
1	EN-530	#5 BENT BAR (LEVEL 1, BLACK STEEL)	5
2	EN-531	#5 BENT BAR (LEVEL 1, BLACK STEEL)	2
3		#5 x 6'-1" (LEVEL 1, BLACK STEEL)	5
4		#5 x 5'-0" (LEVEL 1, BLACK STEEL)	16
5			
6		#6 x 6'-0" (LEVEL 1, BLACK STEEL)	5
7			
8			
9	MK-EN2	N#B SPLICE SLEEVE 5U-X(PG) (BLACK STEEL)	5
10	MK-EN3	N#B SPLICE SLEEVE 6U-X(PG) (BLACK STEEL)	5
11	MK-EN4	4T x 7 1/8" SWIFT LIFT LIFTER	4
12	MK-EN5	8T x 13 3/8" SWIFT LIFT LIFTER	2
13			
14			
15			

4-7-14 REVISED AS NOTED

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 OISE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)398-6361 Fax: (802)388-9010		A.L. ST. ONGE CONTRACTOR, INC. CONTRACTOR MONTGOMERY CENTER, VERMONT	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN		DATE: JAN. 27, 2014	
	TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40)		SCALE: NOTED	
	PRECAST WINGWALL DETAILS		CHKD: M.W. DFTM: B.L. JOB NO: 23418-013 DWG. NO: WW1	

Vermont Agency of Transportation
RECEIVED
 ON: April 9, 2014
 and Checked for
CONFORMANCE
 BY: Rob Young DATE: 04/14/2014

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements	X	
APPROVED AS NOTED		
REVISE AND RESUBMIT		
NOT REVIEWED		
Date:	4-11-2014	
By:	<i>James Hyslop</i>	
This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.		



SHOP NOTE:
 ALL EDGES OF WING WALLS, FORM FACE & T/WALL FACE, SHALL RECEIVE A 1" CHAMFER (UNLESS NOTED OTHERWISE)

SHOP NOTE:
 f'c = 5,000 PSI
 f'ci = 3,500 PSI
 MIX: #46M5CC

ISSUED FOR PRODUCTION
 APR 09 2014
 J.P. CARRARA & SONS, INC.
 MIDDLEBURY, VT 05753

MARK: EN-WW1	QTY.: 1	WT.: 7.95 T	VOL.: 3.93 cy
MARK: EN-WW2	QTY.: 1	WT.: 7.51 T	VOL.: 3.71 cy
MARK: EN-WW3	QTY.: 1	WT.: 7.41 T	VOL.: 3.66 cy

MATERIAL LIST / WINGWALL					
ITEM	MARK	DESCRIPTION	QTY./WINGWALL		
			EN-WW1	EN-WW2	EN-WW3
1	EN-532	#5 BENT BAR (LEVEL 1, BLACK STEEL)	16	16	16
2		#5 x 8'-4" (LEVEL 1, BLACK STEEL)	16	16	16
3					
4					
5		#6 x 6'-9" (LEVEL 1, BLACK STEEL)	20	20	18
6					
7					
8					
9					
10	MK-EN3	NMB SPLICE SLEEVE 6U-X(PG) (BLACK STEEL)	20	20	18
11	MK-EN4	4T x 7 1/8" SWIFT LIFT LIFTER	4	4	4
12	MK-EN5	8T x 13 3/8" SWIFT LIFT LIFTER	2	2	2
13					
14					
15					

APPROVAL STAMP:

J.P. CARRARA & SONS INC. A.L. ST. ONGE CONTRACTOR, INC.
 Precast & Prestress Manufacturer CONTRACTOR
 2444 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010 MONTGOMERY CENTER, VERMONT

STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN DATE: JAN. 27, 2014
 SCALE: NOTED

TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40) CHKD: M.W. DFTM: B.L.
 JOB NO: 23418-013

PRECAST WINGWALL DETAILS DWG. NO: WW2



FN-401L
#4 BENT BAR
LEVEL II (DUAL COATED)
USE 2" (50 mm) PIN
(42) REQ'D.

FN-402L
#4 BENT BAR
LEVEL II (DUAL COATED)
USE 2" (50 mm) PIN
(56) REQ'D.

FN-403L
#4 BENT BAR
LEVEL II (DUAL COATED)
USE 2" (50 mm) PIN
(24) REQ'D.

FN-404L
#4 BENT BAR
LEVEL II (DUAL COATED)
USE 2" (50 mm) PIN
(46) REQ'D.

THIS BAR NOT USED

FN-501L

FN-502L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(46) REQ'D.

FN-503L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(50) REQ'D.

THIS BAR NOT USED

FN-504L

FN-505L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(6) REQ'D.

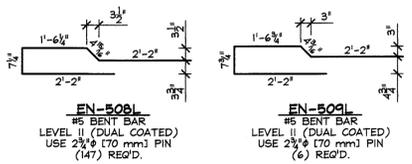
THIS BAR NOT USED

FN-506L

FN-507L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(14) REQ'D.

Vermont Agency of Transportation
RECEIVED
ON: April 9, 2014
and Checked for
CONFORMANCE
BY: Rob Young DATE: 04/14/2014

NEXT BEAM # CURTAIN WALL MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		54	#4 x 8'-4" (LEVEL II, DUAL COATED)	
2				
3		864	#5 x 8'-4" (LEVEL II, DUAL COATED)	
4		36	#5 x 7'-8" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)	
5		36	#5 x 7'-3" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)	
6		6	#5 x 7'-3" (W/ (1) 2'-6" STAGGERED LAP) (LVL. II, DUAL COATED)	
7		40	#5 x 9'-1" (LVL. II, DUAL COATED)	
8		4	#5 x 6'-10" (LVL. II, DUAL COATED)	
9		4	#5 x 7'-7" (LVL. II, DUAL COATED)	
10				
11		24	#8 x 2'-0" (LEVEL II, DUAL COATED)	
12				
13				
14				
15		20	GUARD RAIL ANCHOR PLATE (GALV.)	SUPPLIED BY OTHERS; SEE DETAIL THIS SHEET
16		12	SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	
17				
18				
19				
20				



FN-508L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(147) REQ'D.

FN-509L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(6) REQ'D.

PRESTRESSED NEXT BEAMS

APPROVED: Approval of drawings and/or procedures indicates concurrence with the information presented and does not relieve the Contractor or Fabricator of compliance with all specifications and code requirements

APPROVED AS NOTED

REVISE AND RESUBMIT

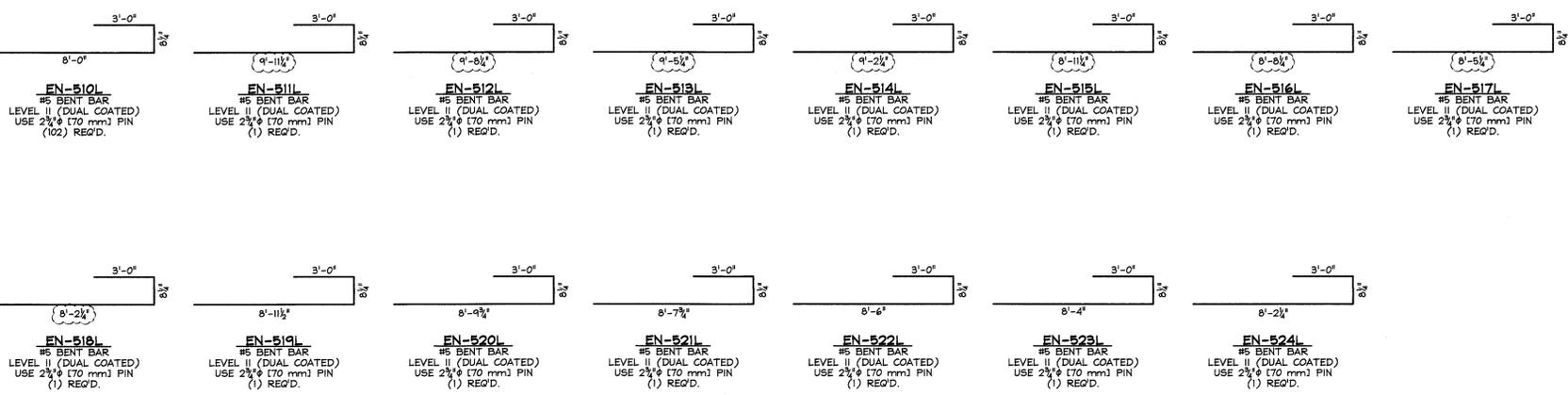
NOT REVIEWED

Date: 4-11-2014

By: James Hyland

This review by Stantec Consulting Services Inc. is for the sole purpose of ascertaining conformance with the general design concept. This review shall not mean that Stantec Consulting Services Inc. approves the detail design inherent in the shop drawings, responsibility for which shall remain with the Contractor. Submitting same, and such review shall not relieve the Contractor of his responsibility for errors or omissions in the shop drawing or of his responsibility for meeting all requirements of the Contract Documents. The contractor is responsible for dimensions to be confirmed and correlated at the job site, for information that pertains solely to the fabrication processes or to techniques of construction and installation and for coordination of the work of all subtrades.

APPROACH SLAB MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		46	#5 x 7'-2" (LEVEL II, DUAL COATED)	
2		1	#5 x 9'-1 1/4" (LEVEL II, DUAL COATED)	
3		1	#5 x 8'-10 1/4" (LEVEL II, DUAL COATED)	
4		1	#5 x 8'-7 1/4" (LEVEL II, DUAL COATED)	
5		1	#5 x 8'-4 1/4" (LEVEL II, DUAL COATED)	
6		1	#5 x 8'-1 1/4" (LEVEL II, DUAL COATED)	
7		1	#5 x 7'-10 1/4" (LEVEL II, DUAL COATED)	
8		1	#5 x 7'-7 1/4" (LEVEL II, DUAL COATED)	
9		1	#5 x 7'-4 1/4" (LEVEL II, DUAL COATED)	
10		1	#5 x 8'-1 1/2" (LEVEL II, DUAL COATED)	
11		1	#5 x 7'-11 3/4" (LEVEL II, DUAL COATED)	
12		1	#5 x 7'-9 3/4" (LEVEL II, DUAL COATED)	
13		1	#5 x 7'-8" (LEVEL II, DUAL COATED)	
14		1	#5 x 7'-6" (LEVEL II, DUAL COATED)	
15		1	#5 x 7'-4 1/4" (LEVEL II, DUAL COATED)	
16				
17		46	#6 x 14'-6 1/2" (LEVEL II, DUAL COATED)	
18		(4)	#6 x 7'-11" (LEVEL II, DUAL COATED)	
19		2	#6 x 5'-6" (LEVEL II, DUAL COATED)	
20				
21				
22	TK-ENI	24	4T x 7 1/8" SWIFT LIFT LIFTER	GALVANIZE
23		24	4" I.D. x 1'-2" PVC SLEEVE	
24				
25				



FN-510L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(102) REQ'D.

FN-511L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-512L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-513L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-514L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-515L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-516L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-517L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-518L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-519L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-520L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

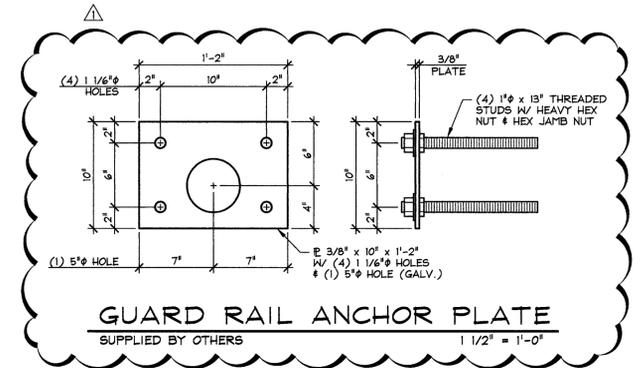
FN-521L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-522L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-523L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

FN-524L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 2 3/8" (70 mm) PIN
(1) REQ'D.

PRECAST APPROACH SLABS



4-7-14 REVISED AS NOTED

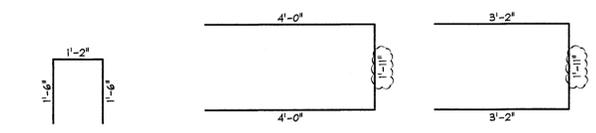
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2404 CASE CIR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	A.L. ST. ONGE CONTRACTOR, INC. CONTRACTOR MONTGOMERY CENTER, VERMONT
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF FRANKLIN	DATE: JAN. 27, 2014 SCALE: NOTED
	TOWN OF ENOSBURG BOSTON POST ROAD T.H.2 CLASS 2 BRIDGE NO.: 48 PROJECT NO.: BRO 1448(40)	CHKD: M.W. DFTM: B.L. JOB NO: 23418-013
	MATERIALS LIST	DWG. NO: M1

ISSUED FOR PRODUCTION
APR 09 2014
J.P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

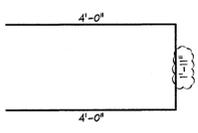
ABUTMENT MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		18	#5 x 3'-3" (LEVEL I, BLACK STEEL)	
2		54	#5 x 4'-7" (LEVEL I, BLACK STEEL)	
3		11	#5 x 4'-10" (LEVEL I, BLACK STEEL)	
4		6	#5 x 7'-11" (LEVEL I, BLACK STEEL)	
5		14	#5 x 32'-8" (LEVEL I, BLACK STEEL)	
6		16	#5 x 2'-4" (LEVEL I, BLACK STEEL)	
7		5	#5 x 7'-2" (LEVEL I, BLACK STEEL)	
8		14	#5 x 31'-2" (LEVEL I, BLACK STEEL)	
9		1	#5 x 7'-5" (LEVEL I, BLACK STEEL)	
10		8	#5 x 10" (LEVEL I, BLACK STEEL)	
11				
12		54	#6 x 4'-6" (LEVEL I, BLACK STEEL)	
13		7	#6 x 4'-10" (LEVEL I, BLACK STEEL)	
14		6	#6 x 7'-10" (LEVEL I, BLACK STEEL)	
15		5	#6 x 7'-2" (LEVEL I, BLACK STEEL)	
16		1	#6 x 7'-5" (LEVEL I, BLACK STEEL)	
17				
18				
19	MK-EN2	65	NMB SPLICE SLEEVE 5U-X(PG) (BLACK STEEL)	
20	MK-EN3	66	NMB SPLICE SLEEVE 6U-X(PG) (BLACK STEEL)	
21		4	SET OF (4) 0.60" STRAND LIFTING LOOPS	
22				
23				
24				
25				

PILE CAP MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		14	#5 x 32'-8" (LEVEL I, BLACK STEEL)	
2		14	#5 x 37'-2" (LEVEL I, BLACK STEEL)	
3				
4				
5				
6		20	1'-3" x 2'-6" CORRUGATED SLEEVE (GALV.)	
7				
8	MK-EN6	8	20 T x 19 3/4" SWIFT LIFT LIFTER	
9				
10				

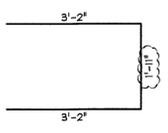
WINGWALL MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		5	#5 x 6'-1" (LEVEL I, BLACK STEEL)	
2		18	#5 x 5'-0" (LEVEL I, BLACK STEEL)	
3		48	#5 x 8'-4" (LEVEL I, BLACK STEEL)	
4				
5		5	#6 x 6'-0" (LEVEL I, BLACK STEEL)	
6		58	#6 x 6'-9" (LEVEL I, BLACK STEEL)	
7				
8				
9	MK-EN2	5	NMB SPLICE SLEEVE 5U-X(PG) (BLACK STEEL)	
10	MK-EN3	63	NMB SPLICE SLEEVE 6U-X(PG) (BLACK STEEL)	
11	MK-EN4	16	4T x 7 1/8" SWIFT LIFT LIFTER	
12	MK-EN5	8	8T x 13 3/8" SWIFT LIFT LIFTER	
13				
14				
15				



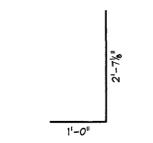
EN-525
#5 BENT BAR
LEVEL I (BLACK STEEL)
USE 2 3/4" (70 mm) PIN
(24) REQ'D.



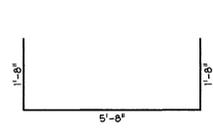
EN-526
#5 BENT BAR
LEVEL I (BLACK STEEL)
USE 2 3/4" (70 mm) PIN
(38) REQ'D.



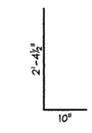
EN-527
#5 BENT BAR
LEVEL I (BLACK STEEL)
USE 2 3/4" (70 mm) PIN
(28) REQ'D.



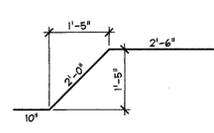
EN-602
#6 BENT BAR
LEVEL I (BLACK STEEL)
USE 4" (100 mm) PIN
(56) REQ'D.



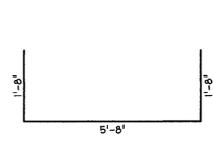
EN-528
#5 BENT BAR
LEVEL I (BLACK STEEL)
USE 2 3/4" (70 mm) PIN
(106) REQ'D.



EN-529
#5 BENT BAR
LEVEL I (BLACK STEEL)
USE 2 3/4" (70 mm) PIN
(70) REQ'D.



EN-533
#5 BENT BAR
LEVEL I (BLACK STEEL)
USE 2 3/4" (70 mm) PIN
(160) REQ'D.



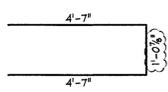
EN-603
#6 BENT BAR
LEVEL I (BLACK STEEL)
USE 4" (100 mm) PIN
(106) REQ'D.



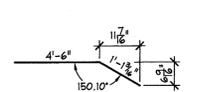
EN-604
#6 BENT BAR
LEVEL I (BLACK STEEL)
USE 4" (100 mm) PIN
(70) REQ'D.

PRECAST ABUTMENTS

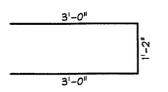
PRECAST PILE CAPS



EN-530
#5 BENT BAR
LEVEL I (BLACK STEEL)
USE 2 3/4" (70 mm) PIN
(5) REQ'D.



EN-531
#5 BENT BAR
LEVEL I (BLACK STEEL)
USE 2 3/4" (70 mm) PIN
(2) REQ'D.



EN-532
#5 BENT BAR
LEVEL I (BLACK STEEL)
USE 2 3/4" (70 mm) PIN
(16) REQ'D.

PRECAST WINGWALLS

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APPROVED AS NOTED

REVISE AND RESUBMIT

NOT REVIEWED

Date: 4-11-2014

By: James Hyatt

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Vermont Agency of Transportation
RECEIVED
ON: April 9, 2014
and Checked for
CONFORMANCE
BY: Rob Young DATE: 04/14/2014

ISSUED FOR PRODUCTION
APR 09 2014
J. P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

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Precast & Prestress Manufacturer CONTRACTOR
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MATERIALS LIST DWG. NO: M2