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NEXT BEAM GENERAL NOTES

- MIN. CONCRETE STRENGTH AT 28 DAYS SHALL BE 10,000 PSI.
- MIN. CONCRETE STRENGTH AT STRESS TRANSFER SHALL BE 8,000 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"Ø x 270 KSI T-HIRE 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 COATED WITH TWO PART EPOXY PAINT SYSTEM.
- ALL EXPOSED CORNERS SHALL BE CHAMFERED 3/4".
- THE TOP OF BEAMS SHALL RECEIVE A SMOOTH SCREED (UNLESS NOTED OTHERWISE).
- SHEAR KEY SURFACES SHALL BE SAND BLASTED.
- 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. TIMBER SUPPORTS SHALL BE PLACED WITHIN CLOSE PROXIMITY TO THE SHIPPING SLEEVE LOCATION AS SHOWN BELOW, UNLESS APPROVED BY J.P. CARRARA & SONS, INC.
- MATERIAL SPECIFICATION AND MIX DESIGN SHALL CONFORM TO VERMONT SPEC. F510.02 AND F510.05 RESPECTIVELY.
DESIGN MIX: J.P.C.
NEXT BEAM MIX #430M WITH 5 GALLONS OF CORROSION INHIBITOR
ABUTMENT & APPROACH SLAB MIX #445M5CG
- 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 10°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 AND/OR EPOXIED SHEAR KEYS. J.P. CARRARA & SONS, INC. SHALL NOT BE HELD LIABLE FOR PROBLEMS ASSOCIATED WITH MOISTURE INFILTRATING GROUTED AND/OR EPOXIED SHEAR KEYS.

EXAMPLE PRESTRESSING STRAND ELONGATION CALC. AND TENSIONING

(NOT TO BE USED FOR CONSTRUCTION)

SIZE & GRADE: 0.60"Ø x 270 KSI
 AREA: 0.271 IN²
 TENSION: 44,000 LB. EACH STRAND
 GRIP-TO-GRIP: 252'-0" = 252,000"
 Es = 28,500,000 PSI (ASSUMED FOR THESE CALCULATIONS; VALUE TO BE OBTAINED FOR STRAND SPOOL ACTUALLY USED)

EXAMPLE:

$$\Delta = \frac{PL}{AE} = \frac{(44,000 - 3,000) \times 252,000 \times 12}{0.271 \times 28,500,000} = 20.041"$$
 THEREFORE: (TOLERANCES ± 5%)
 Δ UPPER LIMIT = 1.05 x 20.041" = 21.05" = 21"
 Δ LOWER LIMIT = 0.95 x 20.041" = 19.04" = 19"

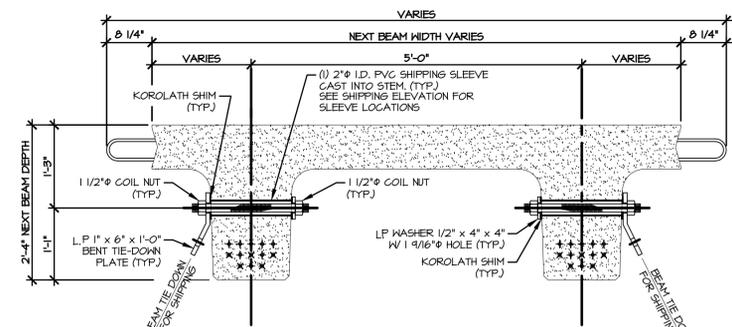
EXTRA FORCE REQUIRED TO COMPENSATE FOR 1/2" CHUCK SLIPPAGE:

$$\Delta P = \frac{0.25 \times 41,000}{20.041} = 1,023 \text{ LBS.}$$
 TOTAL TENSIONING FORCE = 44,000 + 1,023 = 45,023 LBS.

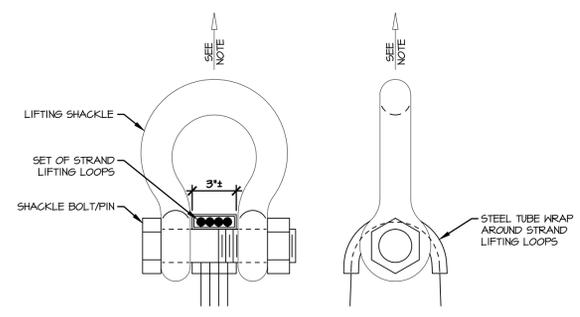
ADDITIONALLY, INCREASED ELONGATION AND THE CORRESPONDING FORCE DUE TO FORM SHORTENING SHALL BE ACCOUNTED FOR IN THE CALCULATIONS USED FOR CONSTRUCTION PER PROVISION PCI MNL 116 5.3.11.3.

STRAND TENSIONING PROCEDURE:

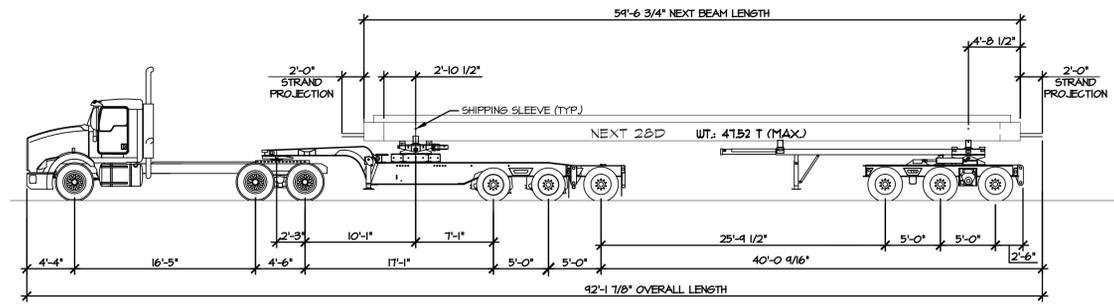
- PULL EACH STRAND INITIALLY TO 3,000* LBS. AND MARK STRAND.
 - THEN PULL EACH STRAND TO A TOTAL TENSION OF 45,023* LBS. AND MEASURE ELONGATION AFTER SEATING. IT MUST BE BETWEEN 19" AND 21".
- * NOTE: FORCES READ ON STRESSING JACK GAUGES MUST BE MADE TO CORRESPOND TO ABOVE VALUES BASED ON CALIBRATION DATA FOR SPECIFIC JACK USED.
- STRANDS IN BOTTOM TWO ROWS SHALL BE RE-PULLED TO VERIFY SHORTENING EFFECT OF SELF STRESSING BED. RE-PULL FORCE SHALL NOT INCLUDE OVER-FILL FOR SHORTENING.



NEXT BEAM 28D HOLD-DOWN DETAIL FOR SHIPPING
3/4" x 1'-0"



LIFTING SHACKLE DETAILS
N.T.S.

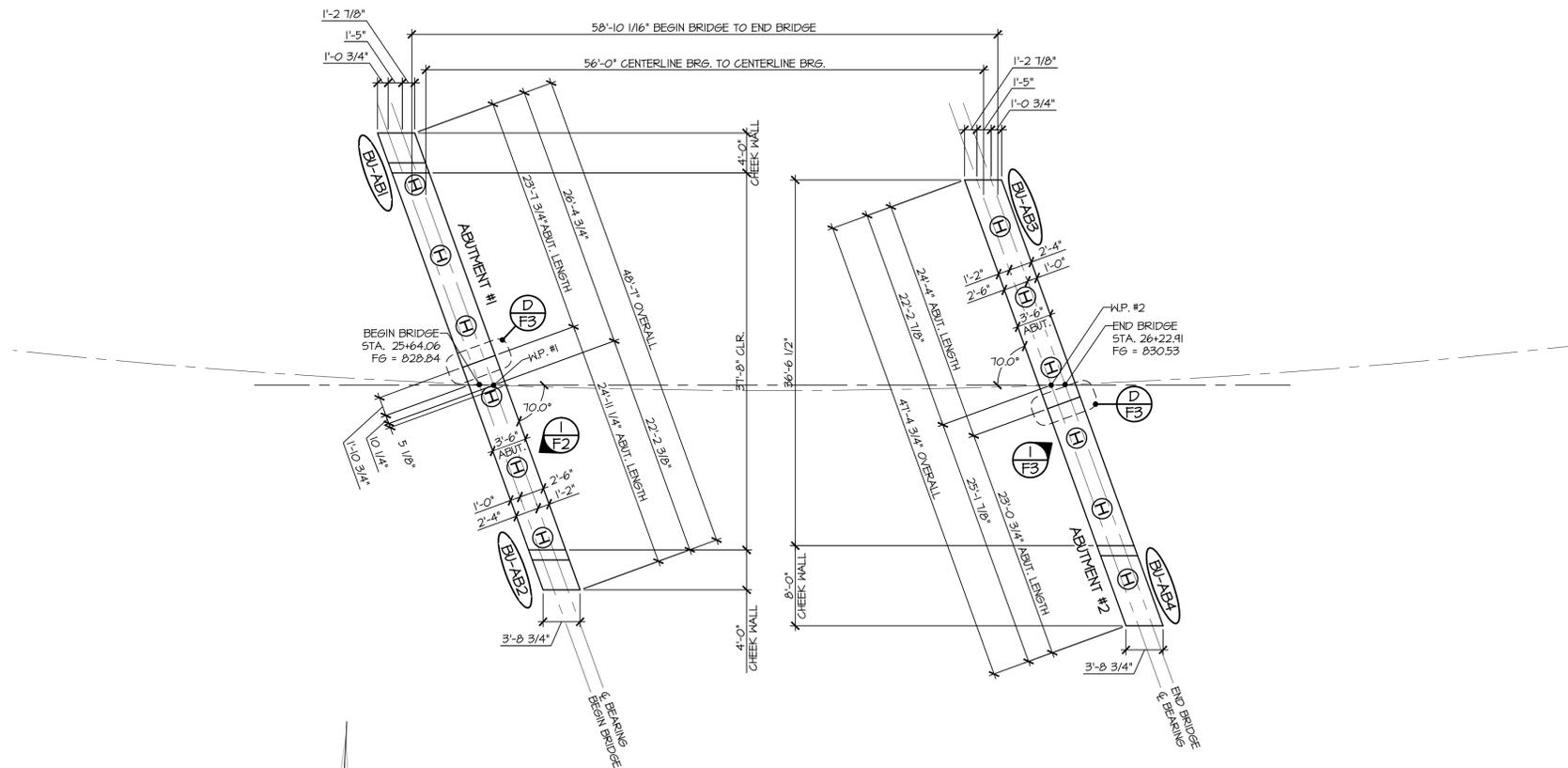


SHIPPING ELEVATION
N.T.S.

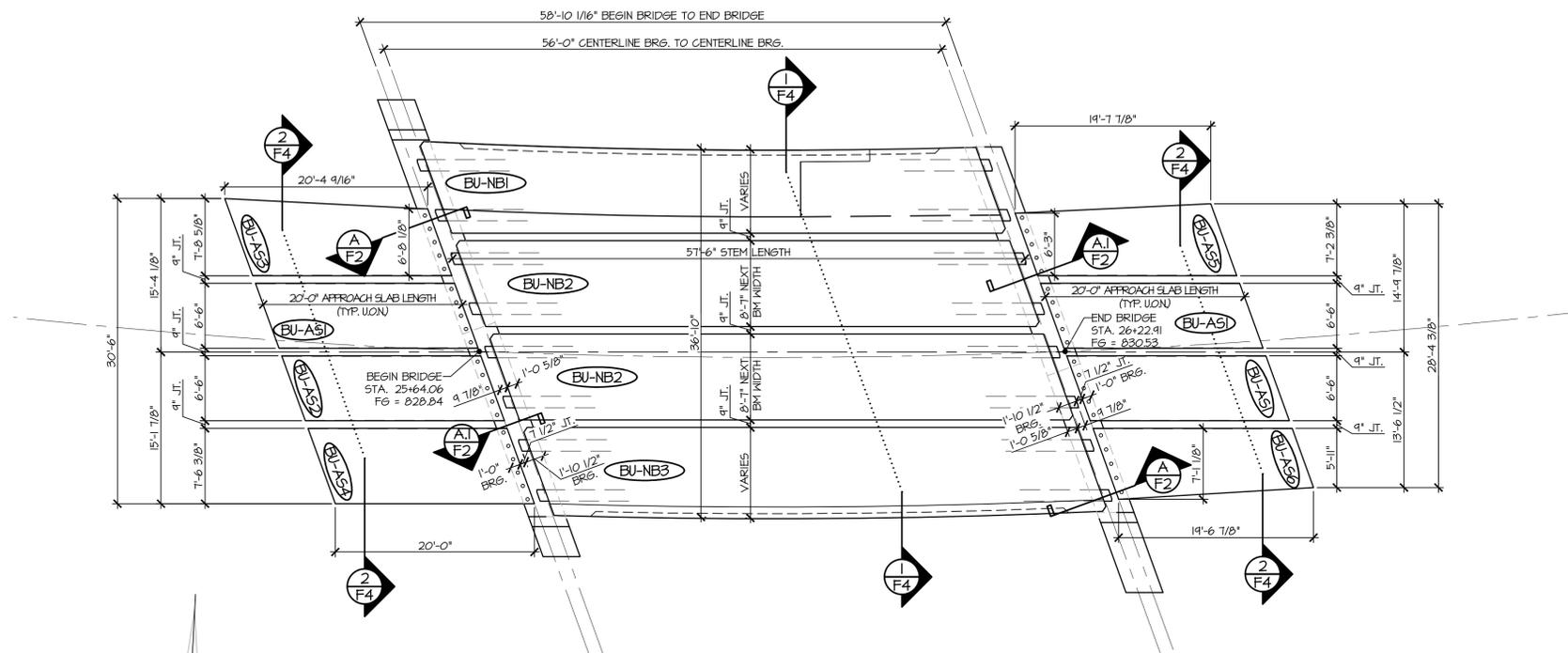
01-22-15 REVISED

APPROVAL STAMP:

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010</small>		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR 23, 2015 SCALE: NOTED	
TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRP 0269(13)		CHKD: -- DFTM: JDK JOB NO: 23454-015	
COVER SHEET		DWG. NO: C1	



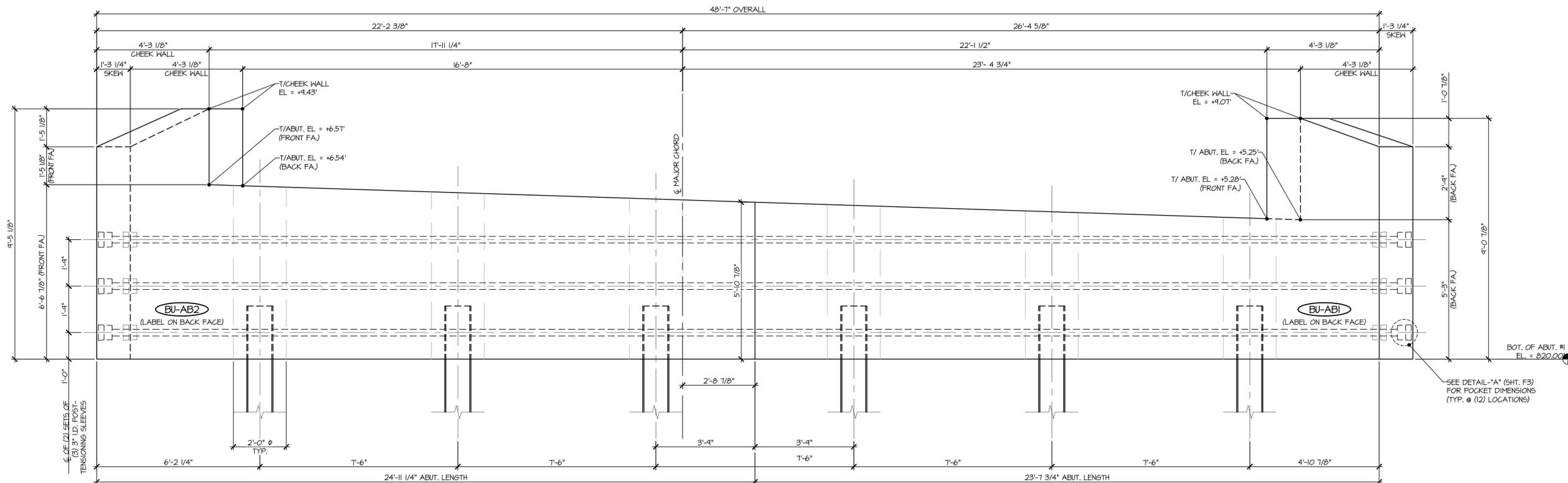
1
F1 PRECAST CONCRETE ABUTMENT & WINGWALL LAYOUT
1/8" = 1'-0"



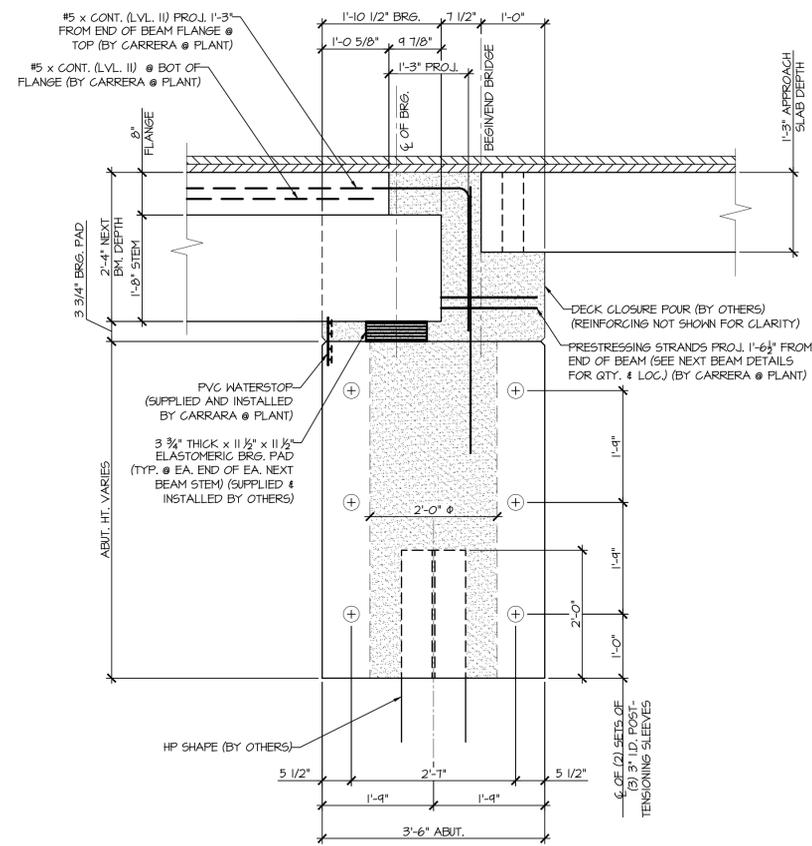
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F1 PRECAST APPROACH SLAB & NEXT BEAM LAYOUT
1/8" = 1'-0"

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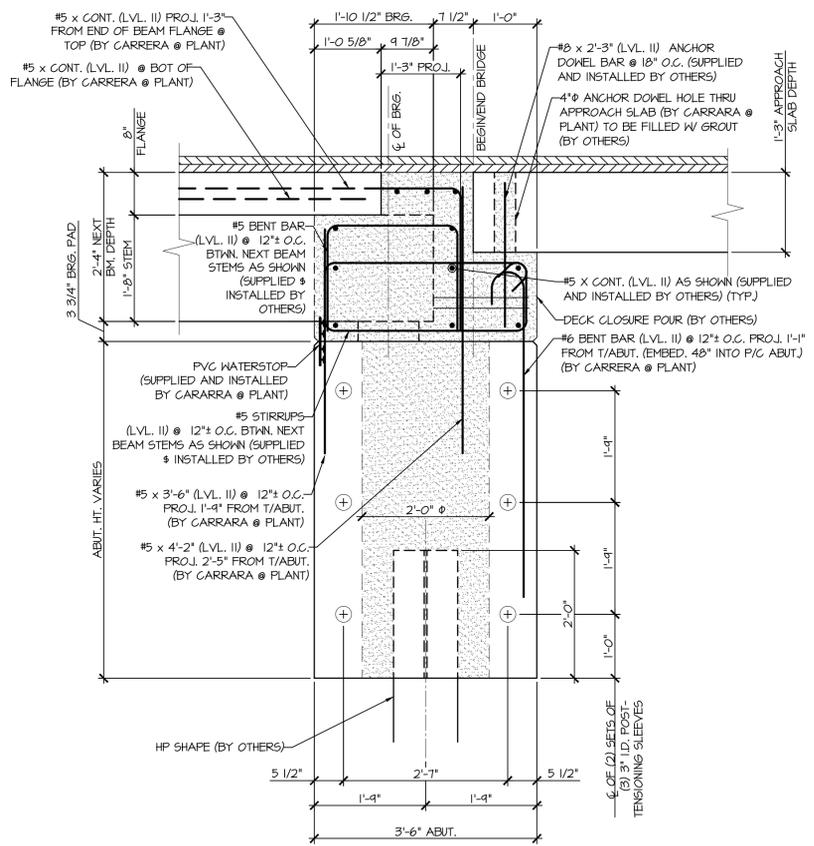
	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2464 CAGE STR., MOULDERY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010</small>		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: DFTM: JDC	JOB NO: 23454-015
	PRECAST ABUTMENT APPROACH SLAB & NEXT BEAM LAYOUT		DWG. NO:	F1



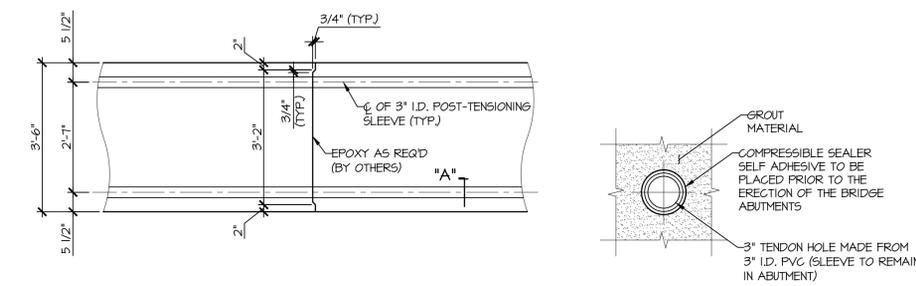
1
F2 ABUTMENT #1 ELEVATION
1/2" = 1'-0"



A
F2 BEARING SECTION
3/4" = 1'-0"
NEXT BEAM STEM BEARING



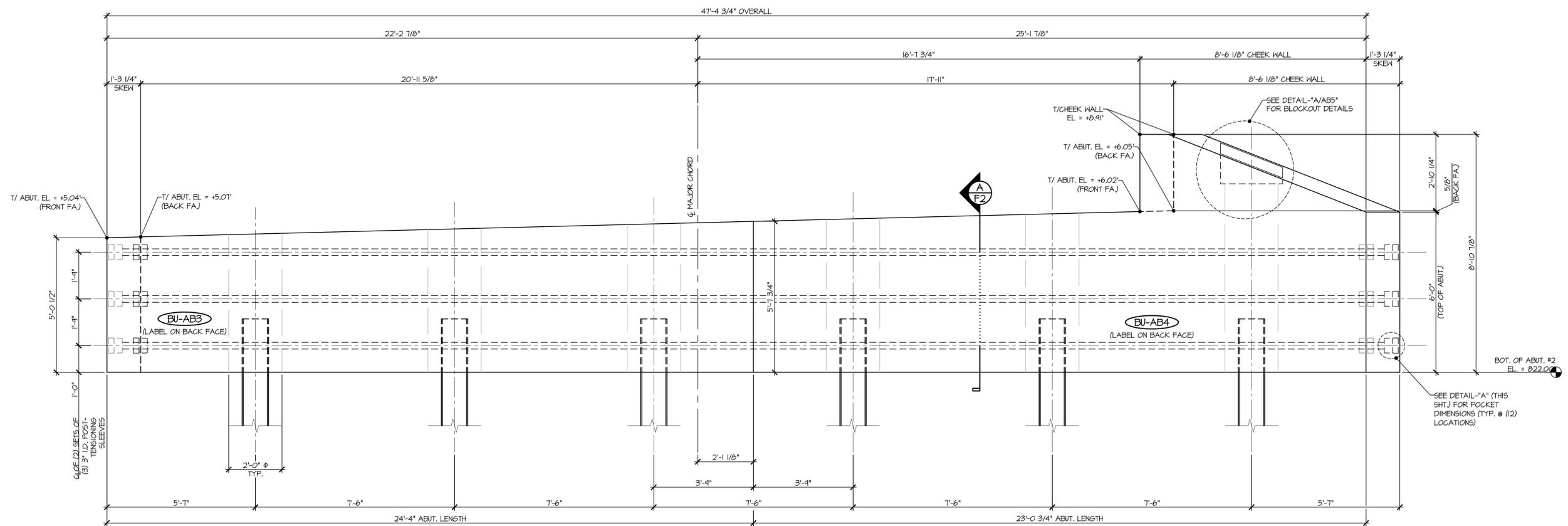
A.1
F2 BEARING SECTION
3/4" = 1'-0"
BETWEEN NEXT BEAM STEM BEARING



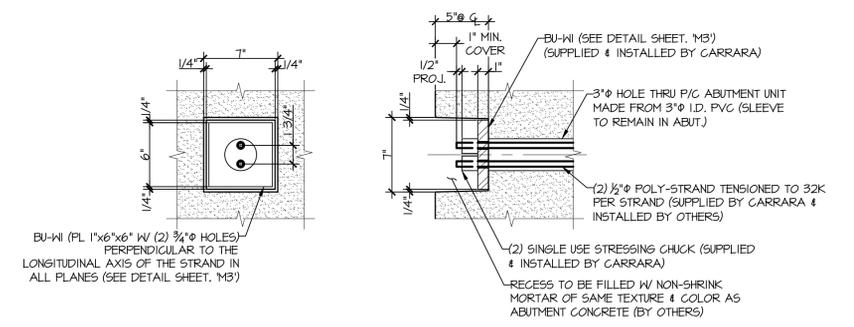
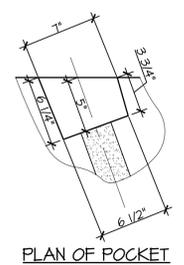
B
F2 MATCH CAST SECTION @
P.T. SLEEVE 1/2" = 1'-0"

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

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STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015
TOWN OF BURKE VERMONT ROUTE 114		SCALE: NOTED
BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: DFTM: JDK
PRECAST ABUTMENT #1 ELEVATION & SECTIONS		JOB NO.: 23454-015
		DWG. NO: F2

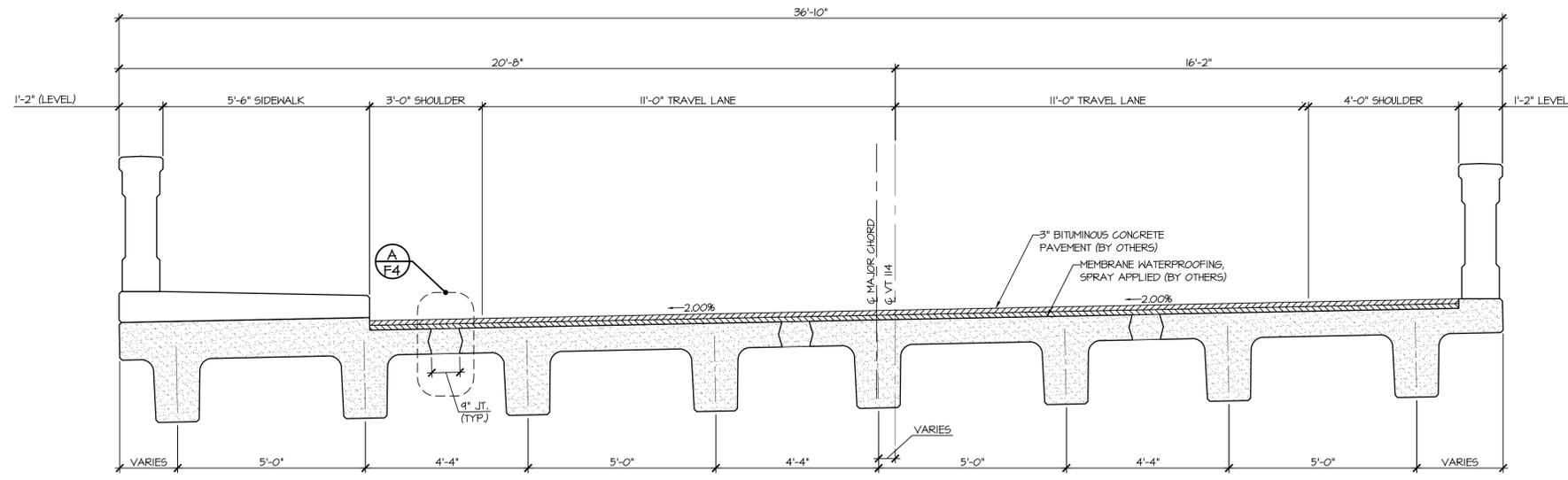


1 ABUTMENT 2 ELEVATION
F3 1/2" = 1'-0"

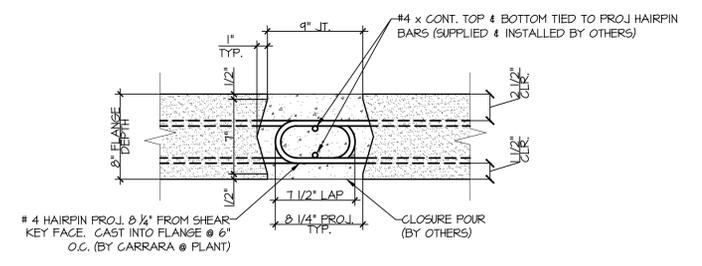


ABUTMENT ELEVATION
 SECTION AT CENTERLINE
DETAIL - "A"
 1/2" = 1'-0"

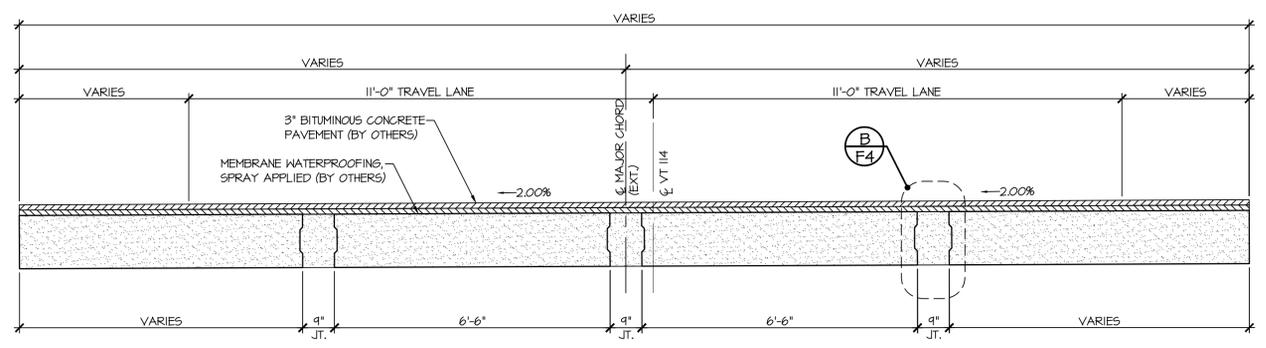
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	PRECAST ABUTMENT # 2 ELEVATION		DWG. NO: F3	



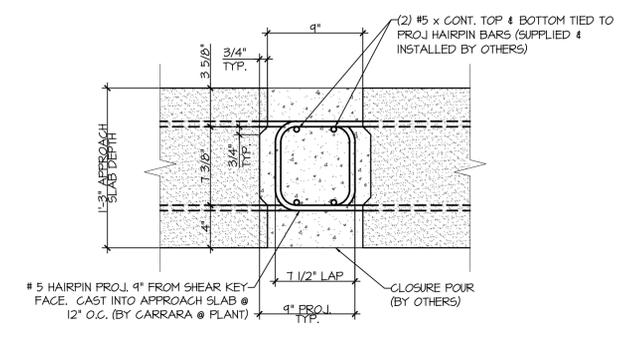
I
F4 NEXT BEAM TRANSVERSE SECTION
1/2" = 1'-0"



A
F4 NEXT BEAM CLOSURE POUR
1/2" = 1'-0"

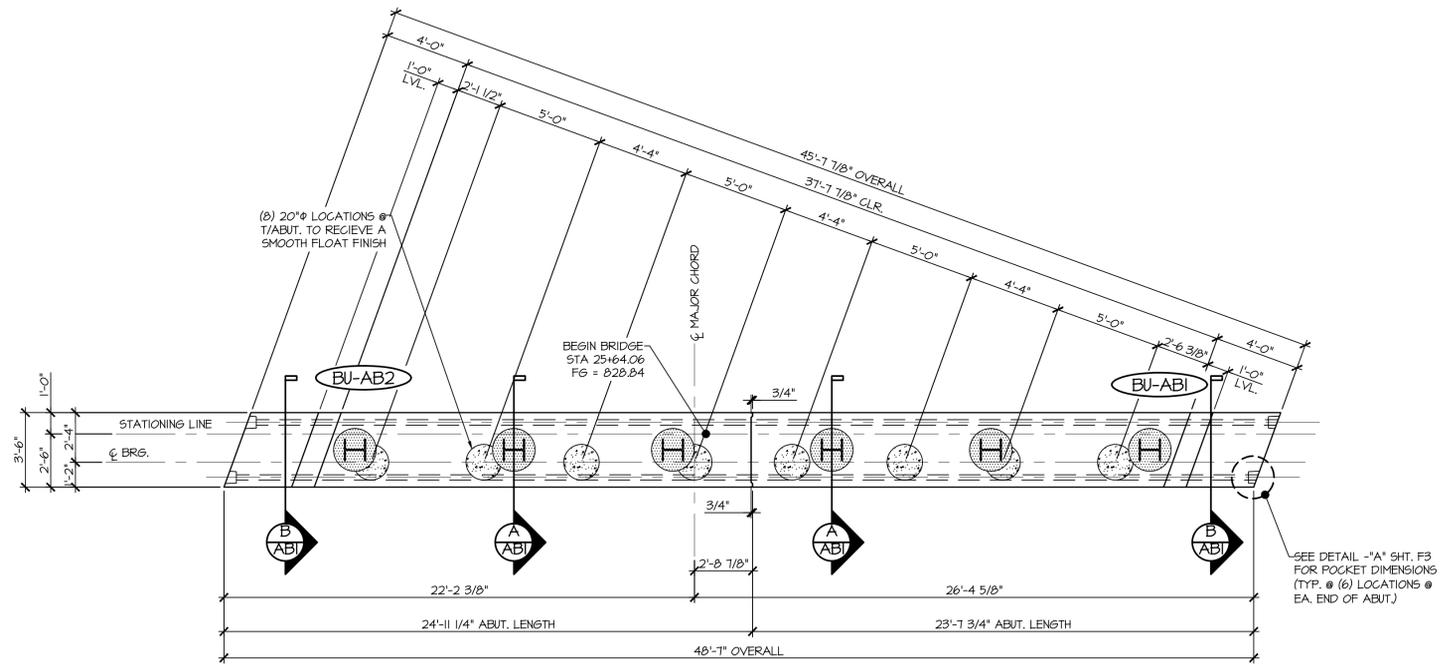


2
F4 APPROACH SLAB TRANSVERSE SECTION
1/2" = 1'-0"

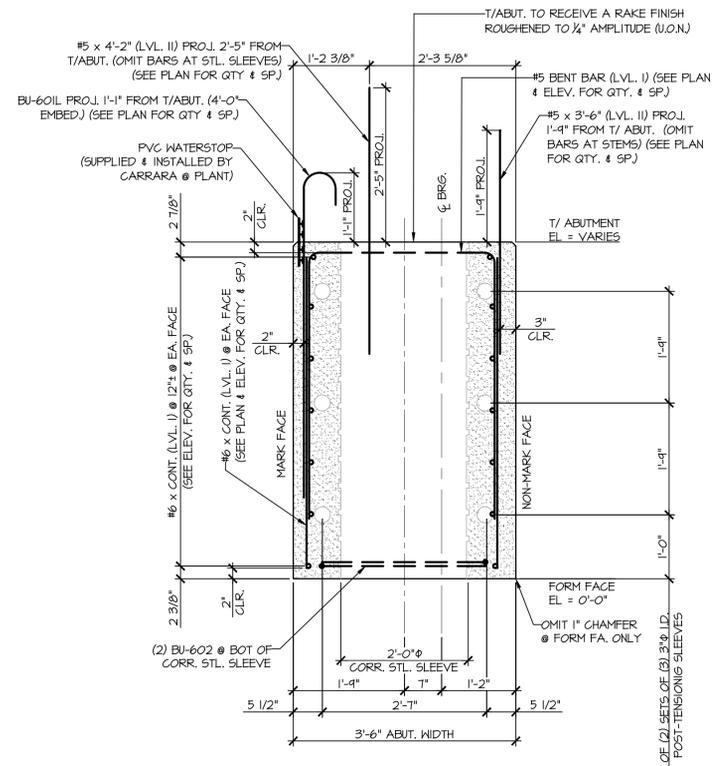


B
F4 APPROACH SLAB CLOSURE POUR
1/2" = 1'-0"

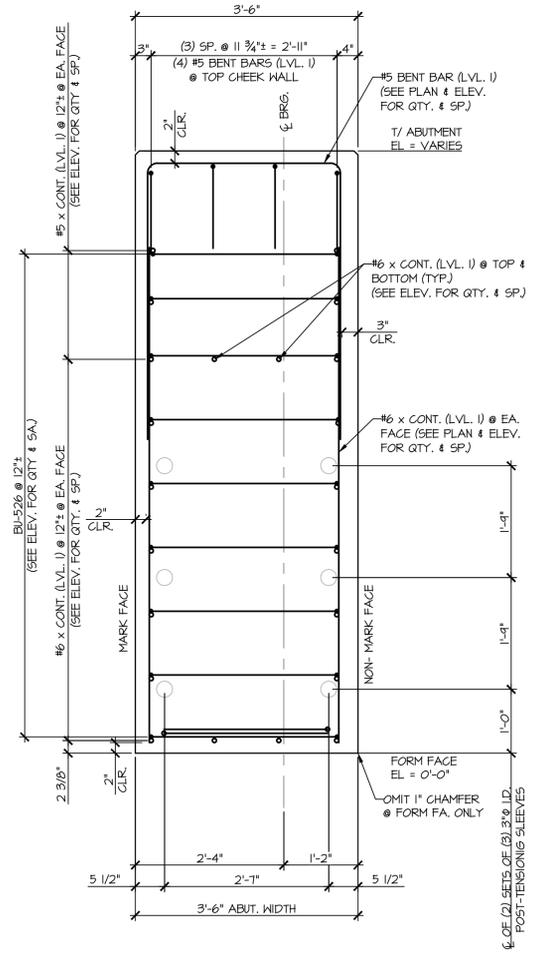
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE ST., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: DFTM: JDK	JOB NO: 23454-015
	TRANSVERSE SECTIONS & DETAILS		DWG. NO: F4	



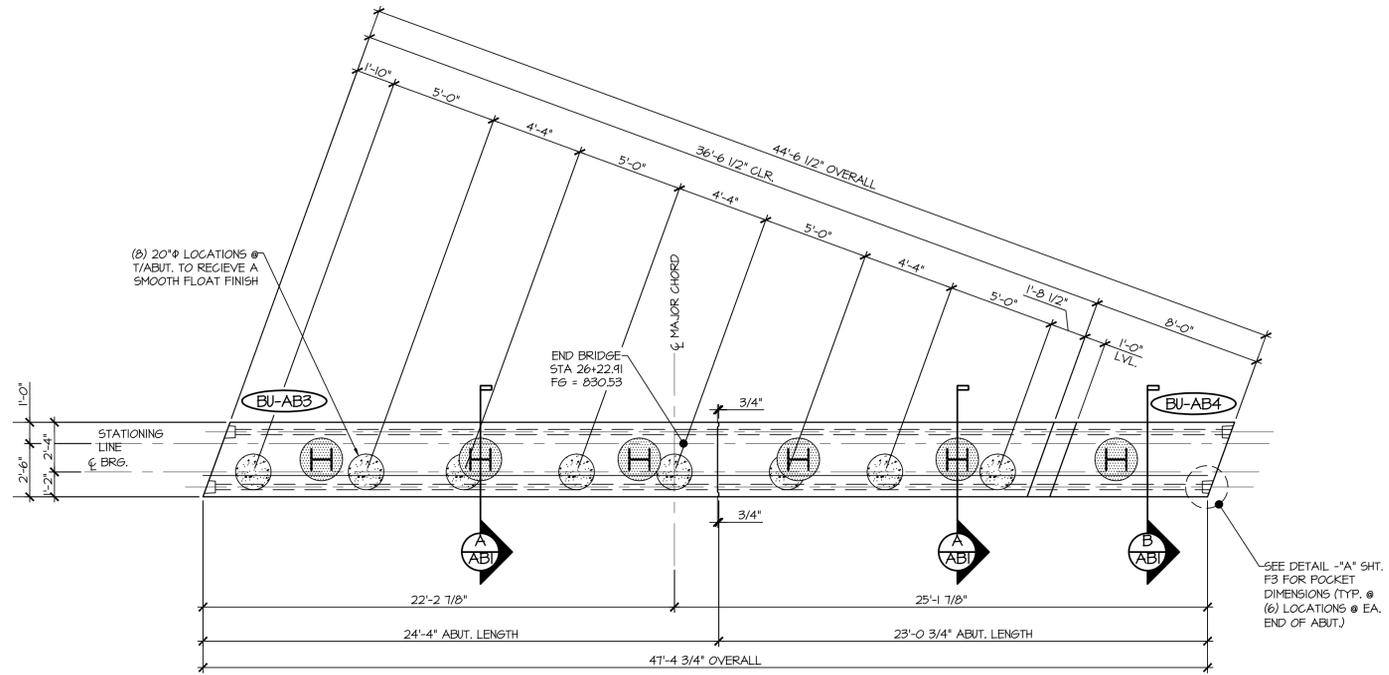
1 ABUTMENT ASSEMBLY PLAN
1/4" = 1'-0"



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



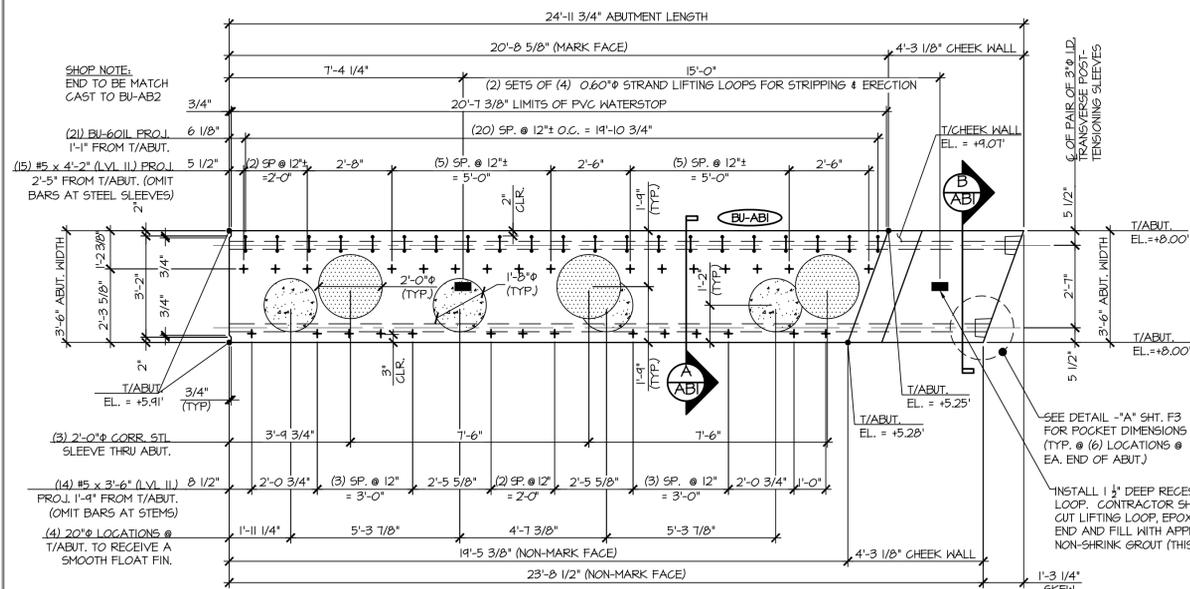
B ABUTMENT SECTION
3/4" = 1'-0"



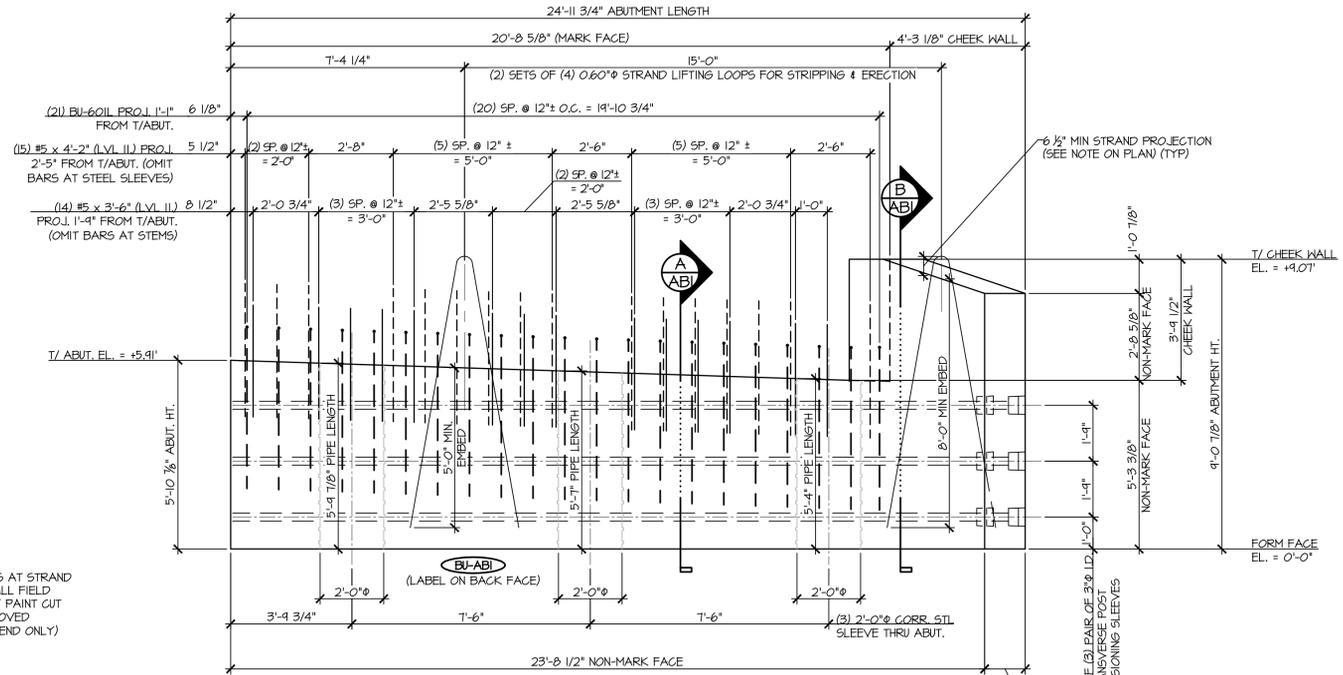
2 ABUTMENT ASSEMBLY PLAN
1/4" = 1'-0"

APPROVAL STAMP:

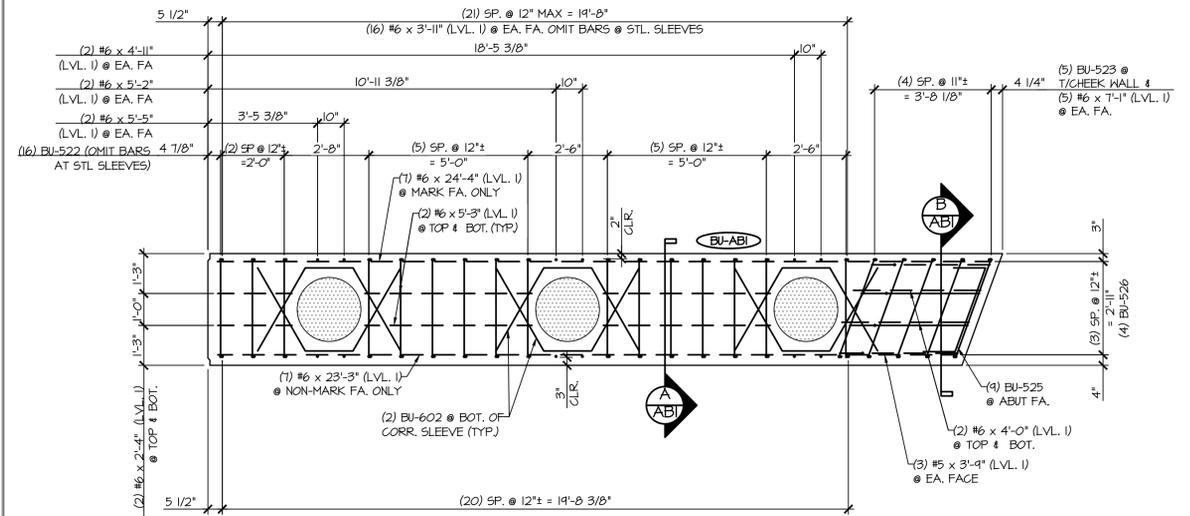
J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CAGE STR., MIDDLEBURY, VERMONT 05753 Phone: (802) 388-6361 Fax: (802) 388-9010	T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA	DATE: MAR. 24, 2015 SCALE: NOTED
TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)	CHKD: DFTM: JDK JOB NO: 23454-015	
PRECAST ABUTMENT PLANS & SECTION		DWG. NO: ABI



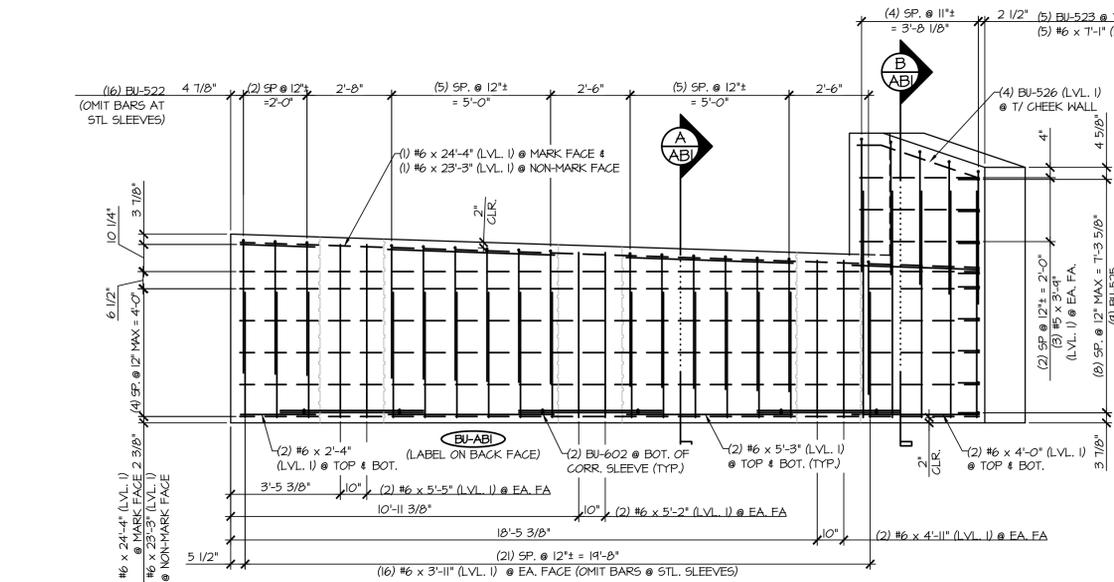
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
 3/8\"/>



2 ABUTMENT DIMENSIONAL NON-MARK FACE ELEVATION
 3/8\"/>



3 ABUTMENT REINFORCING PLAN VIEW IN FORM
 3/8\"/>



4 ABUTMENT REINFORCING NON-MARK FACE ELEVATION
 3/8\"/>

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-522	#5 BENT BAR (LEVEL I)	16
2	BU-523	#5 BENT BAR (LEVEL I)	5
3	BU-525	#5 BENT BAR (LEVEL I)	9
4	BU-526	#5 BENT BAR (LEVEL I)	4
5		#5 x 3'-6\" (LEVEL II, DUAL COATED)	14
6		#5 x 4'-2\" (LEVEL II, DUAL COATED)	15
7		#5 x 3'-9\" (LEVEL I)	6
8	BU-601L	#6 BENT BAR (LEVEL II, DUAL COATED)	21
9	BU-602	#6 BENT BAR (LEVEL I)	6
10		#6 x 2'-4\" (LEVEL I)	4
11		#6 x 3'-11\" (LEVEL I)	32
12		#6 x 4'-0\" (LEVEL I)	4
13		#6 x 4'-11\" (LEVEL I)	4
14		#6 x 5'-2\" (LEVEL I)	4
15		#6 x 5'-3\" (LEVEL I)	8
16		#6 x 5'-5\" (LEVEL I)	4
17		#6 x 7'-1\" (LEVEL I)	10
18		#6 x 23'-3\" (LEVEL I)	7
19		#6 x 24'-4\" (LEVEL I)	7
20		2'-0\" x 5'-4\" CORR. STL. PIPE (GALV.)	1
21		2'-0\" x 5'-7\" CORR. STL. PIPE (GALV.)	1
22		2'-0\" x 5'-9 1/8\" CORR. STL. PIPE (GALV.)	1
23		SET OF (4) 0.60\" x 270 KSI STRAND LIFTING LOOPS	2

APPROVAL STAMP:

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

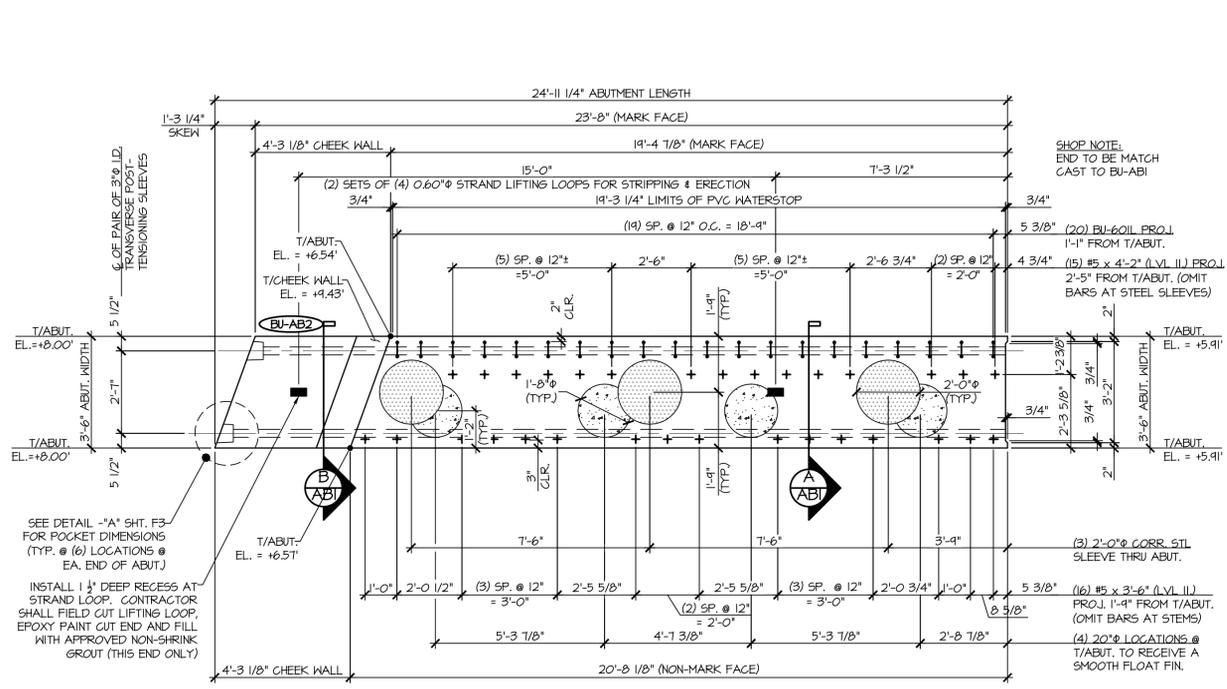
T. BUCK CONSTRUCTION, INC.
 CONTRACTOR
 AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION
 COUNTY OF CALEDONIA

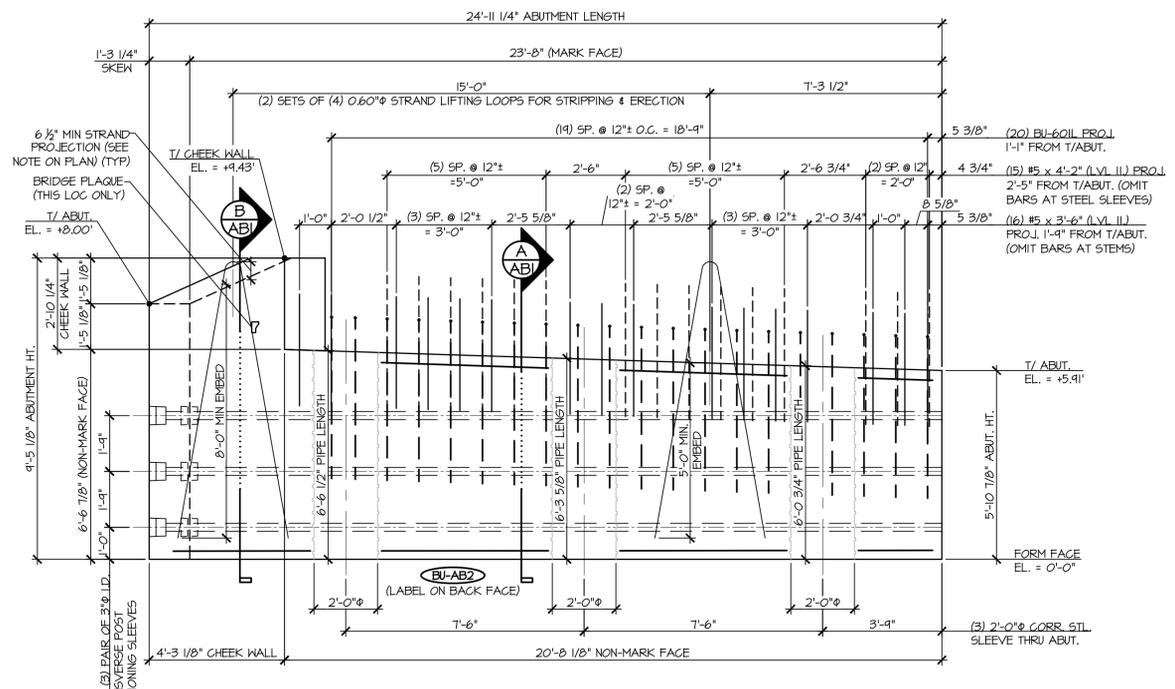
TOWN OF BURKE
 VERMONT ROUTE 114
 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)

DATE: MAR. 24, 2015
 SCALE: NOTED
 CHKD: DFTM: JDK
 JOB NO: 23454-015
 DWG. NO: AB2

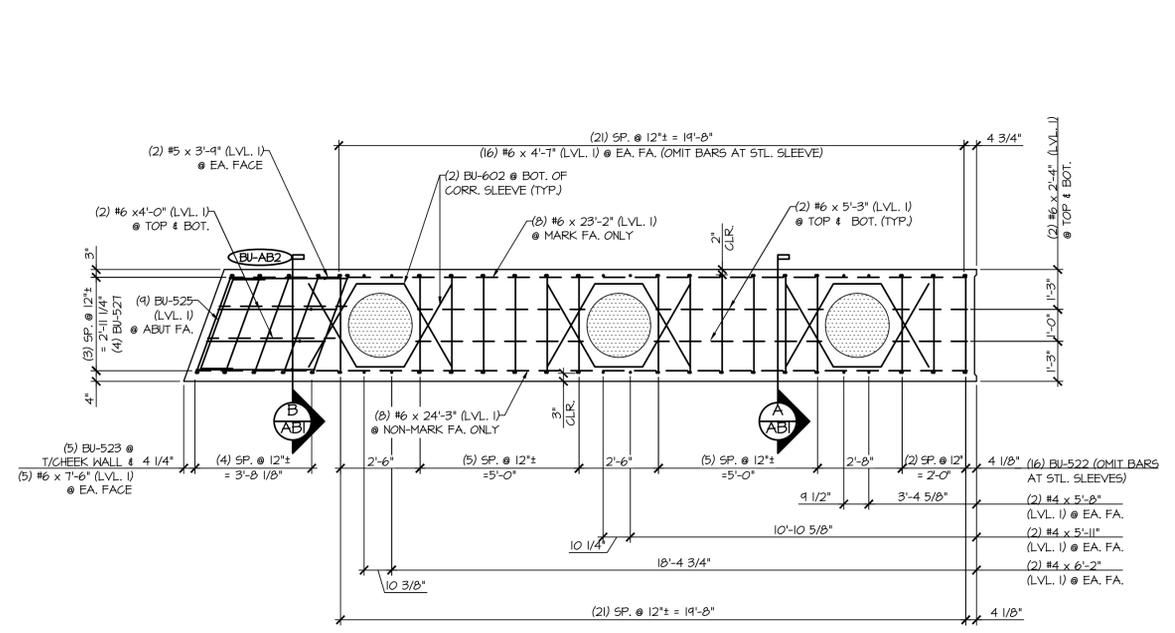
PRECAST ABUTMENT #1 DETAILS



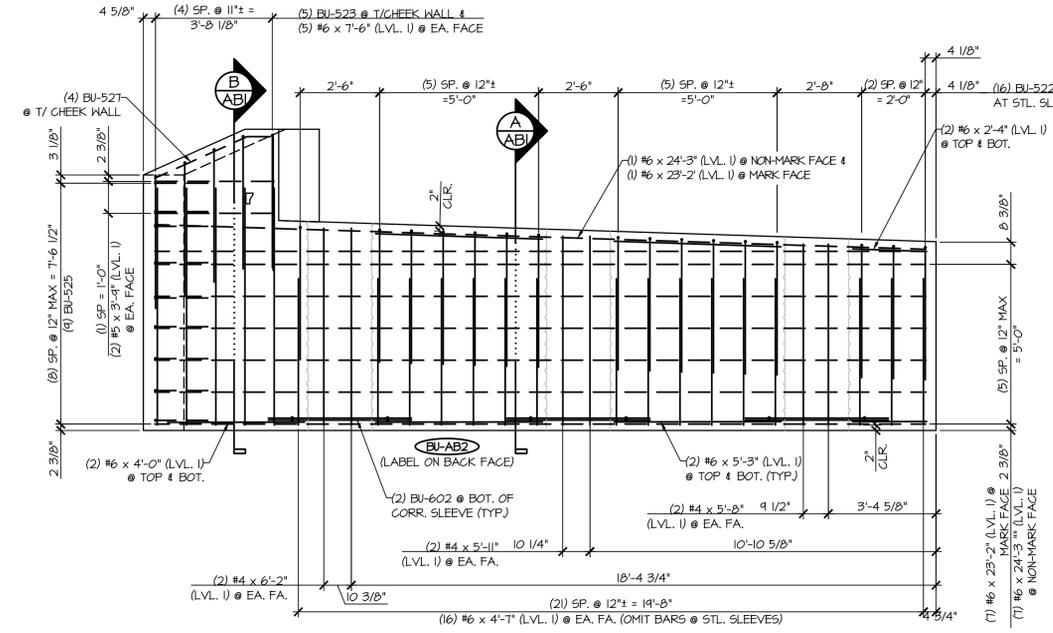
1 AB3 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"



2 AB3 ABUTMENT DIMENSIONAL NON-MARK FACE ELEVATION
3/8" = 1'-0"



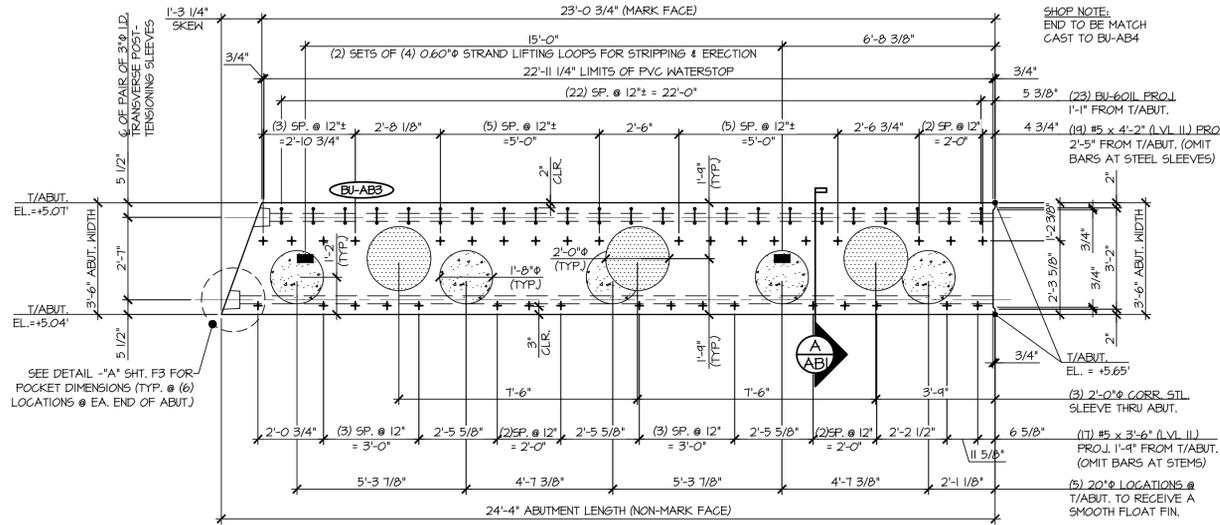
2 AB2 ABUTMENT REINFORCING PLAN VIEW IN FORM
3/8" = 1'-0"



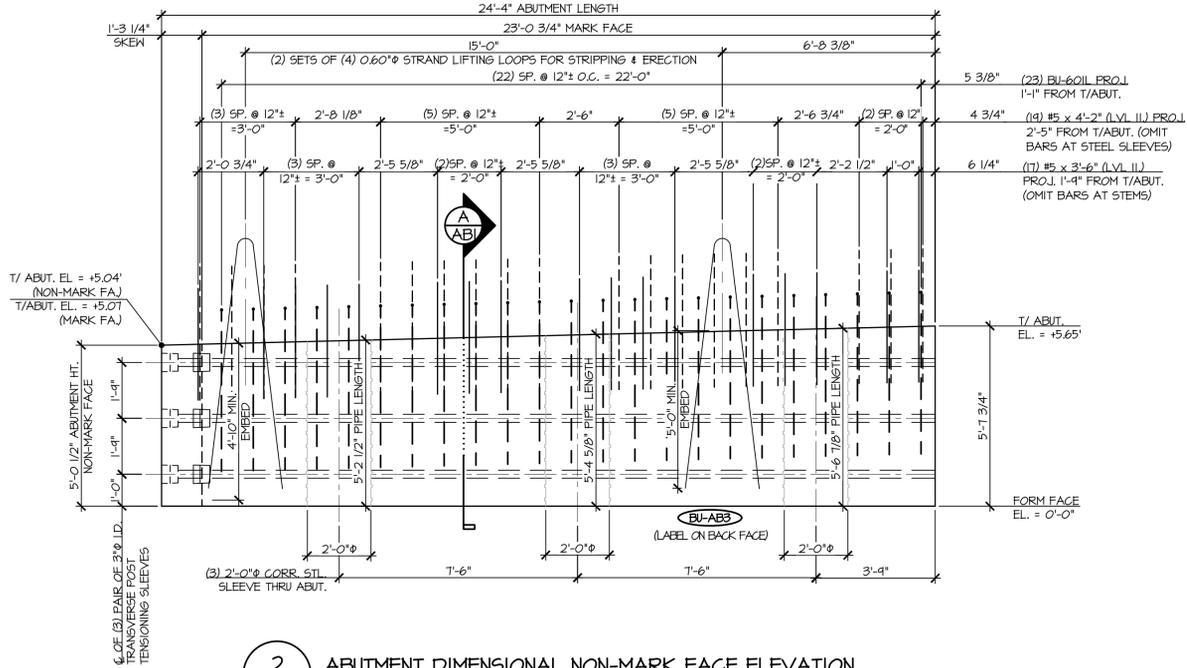
4 AB2 ABUTMENT REINFORCING NON-MARK FACE ELEVATION
3/8" = 1'-0"

MARK: BU-AB2		QTY: 1	WT: 38.17T	VOL: 18.85 CY
MATERIAL LIST / ABUTMENT				
ITEM	MARK	DESCRIPTION	QTY.	
1	BU-522	#5 BENT BAR (LEVEL I)	16	
2	BU-523	#5 BENT BAR (LEVEL I)	5	
3	BU-525	#5 BENT BAR (LEVEL I)	4	
4	BU-527	#5 BENT BAR (LEVEL I)	4	
5		#5 x 3'-6" (LEVEL II, DUAL COATED)	16	
6		#5 x 4'-2" (LEVEL II, DUAL COATED)	15	
7		#5 x 3'-4" (LEVEL I)	4	
8	BU-601L	#6 BENT BAR (LEVEL II, DUAL COATED)	20	
9	BU-602	#6 BENT BAR (LEVEL I)	6	
10		#6 x 2'-4" (LEVEL I)	4	
11		#6 x 4'-0" (LEVEL I)	4	
12		#6 x 4'-7" (LEVEL I)	32	
13		#6 x 5'-3" (LEVEL I)	8	
14		#6 x 5'-8" (LEVEL I)	4	
15		#6 x 5'-11" (LEVEL I)	4	
16		#6 x 6'-2" (LEVEL I)	4	
17		#6 x 7'-6" (LEVEL I)	10	
18		#6 x 23'-2" (LEVEL I)	8	
19		#6 x 24'-3" (LEVEL I)	8	
20		2'-0" x 6'-0 3/4" CORR. STL. PIPE (GALV.)	1	
21		2'-0" x 6'-3 3/8" CORR. STL. PIPE (GALV.)	1	
22		2'-0" x 6'-6 1/2" CORR. STL. PIPE (GALV.)	1	
23		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	2	

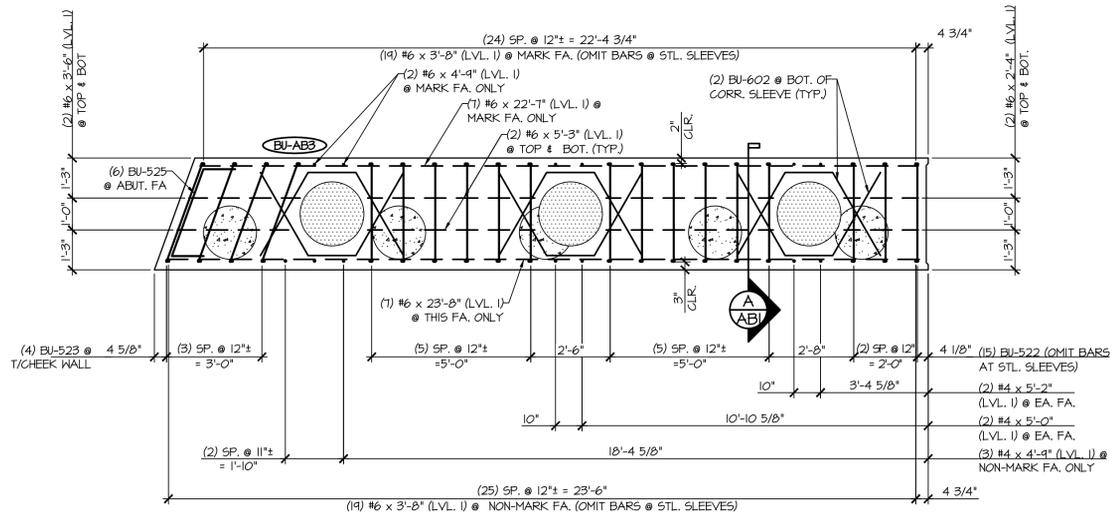
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	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: _____	DFTM: JDK
	PRECAST ABUTMENT #2 DETAILS		JOB NO: 23454-015	DWG. NO: AB3



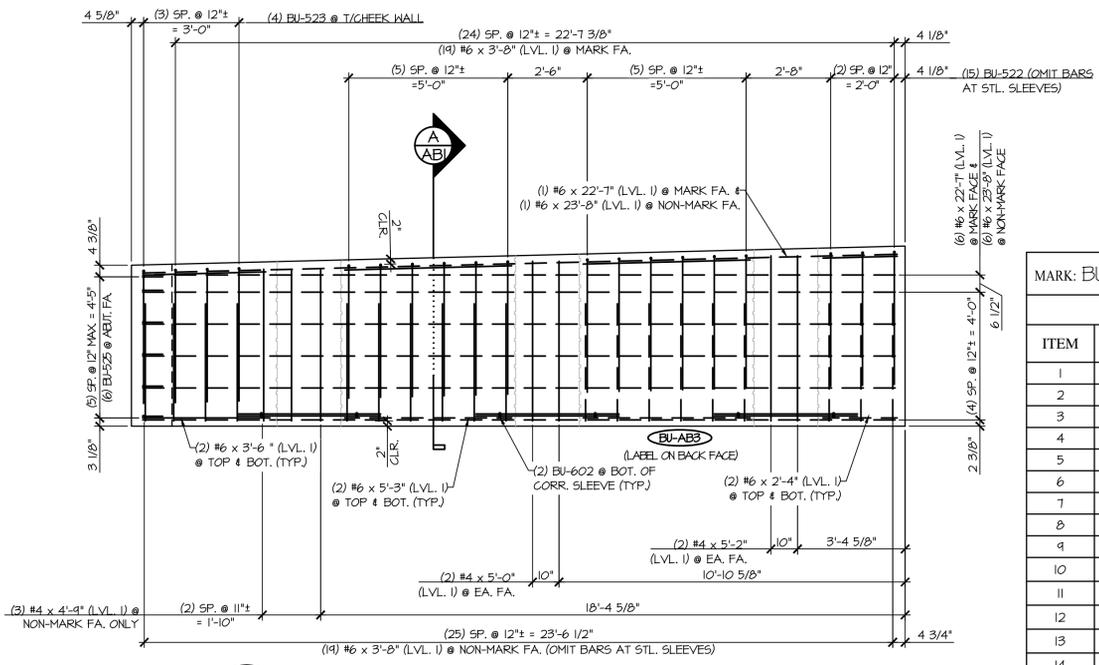
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"



2 ABUTMENT DIMENSIONAL NON-MARK FACE ELEVATION
3/8" = 1'-0"



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



4 ABUTMENT REINFORCING NON-MARK FACE ELEVATION
3/8" = 1'-0"

MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-522	#5 BENT BAR (LEVEL I)	15
2	BU-523	#5 BENT BAR (LEVEL I)	4
3	BU-525	#5 BENT BAR (LEVEL I)	6
4		#5 x 3'-6" (LEVEL II, DUAL COATED)	17
5		#5 x 4'-2" (LEVEL II, DUAL COATED)	19
6	BU-60IL	#6 BENT BAR (LEVEL II, DUAL COATED)	23
7	BU-602	#6 BENT BAR (LEVEL I)	6
8		#6 x 2'-4" (LEVEL I)	4
9		#6 x 3'-8" (LEVEL I)	38
10		#6 x 4'-9" (LEVEL I)	5
11		#6 x 5'-0" (LEVEL I)	4
12		#6 x 5'-2" (LEVEL I)	4
13		#6 x 5'-3" (LEVEL I)	8
14		#6 x 22'-7" (LEVEL I)	7
15		#6 x 23'-8" (LEVEL I)	7
16		2'-0" x 5'-2 1/2" CORR. STL. PIPE (GALV)	1
17		2'-0" x 5'-4 3/8" CORR. STL. PIPE (GALV)	1
18		2'-0" x 5'-6 7/8" CORR. STL. PIPE (GALV)	1
19		SET OF (4) 0.60"Ø x 270 KSI STRAND LIFTING LOOPS	2

APPROVAL STAMP:

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

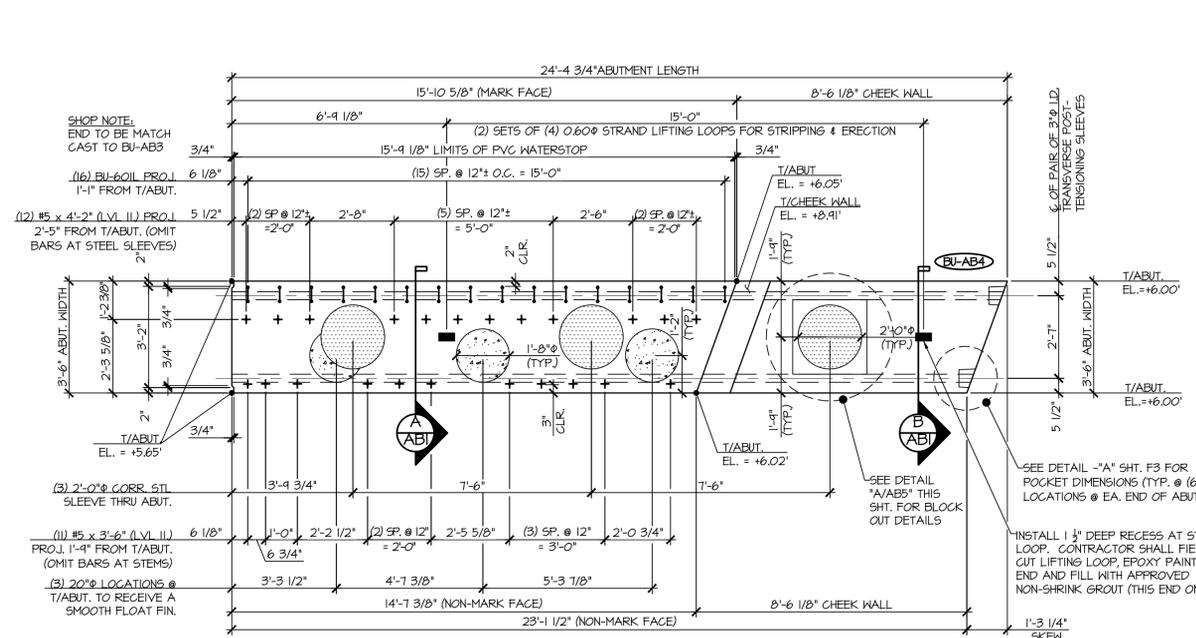
T. BUCK CONSTRUCTION, INC.
CONTRACTOR
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF CALEDONIA

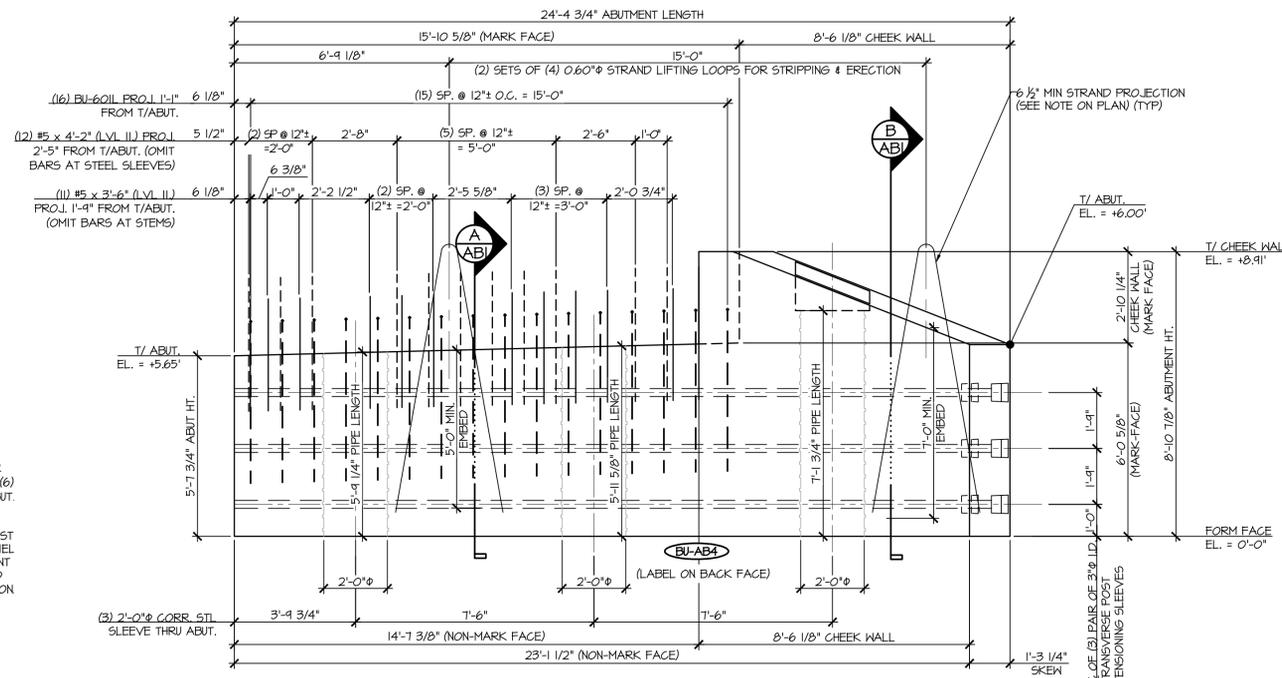
TOWN OF BURKE
VERMONT ROUTE 114
BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)

DATE: MAR. 24, 2015
SCALE: NOTED
CHKD: DFTM: JDK
JOB NO: 23454-015
DWG. NO: AB4

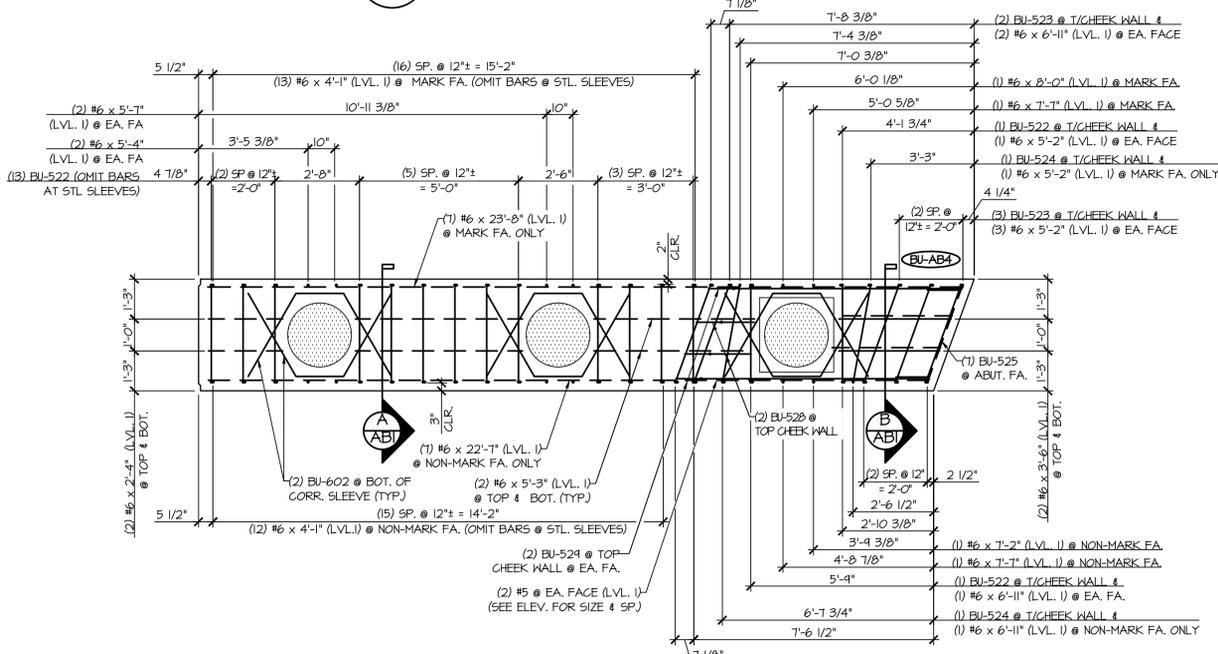
PRECAST ABUTMENT #3 DETAILS



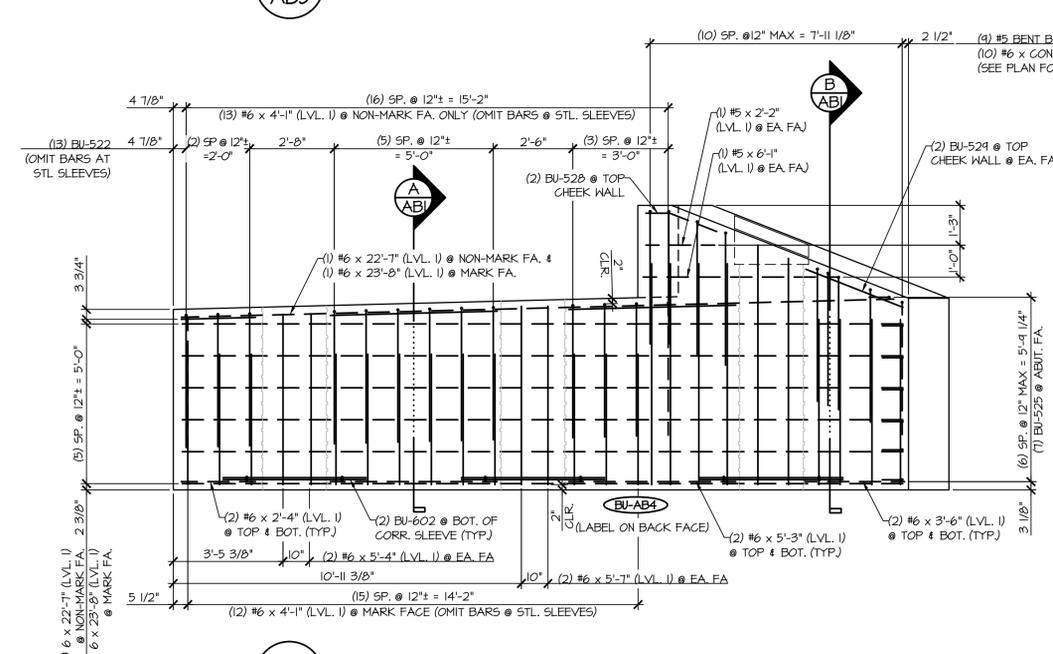
1 ABUTMENT DIMENSIONAL PLAN VIEW IN FORM
 $\frac{3}{8}'' = 1'-0''$



2 ABUTMENT DIMENSIONAL NON-MARK FACE ELEVATION
 $\frac{3}{8}'' = 1'-0''$

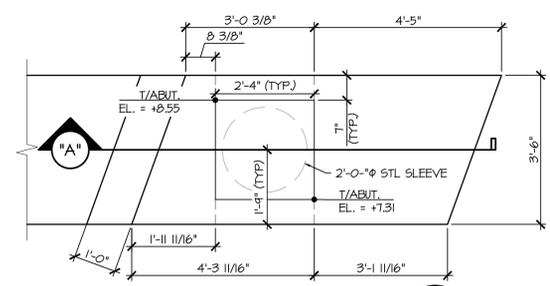


3 ABUTMENT REINFORCING PLAN VIEW IN FORM
 $\frac{3}{8}'' = 1'-0''$

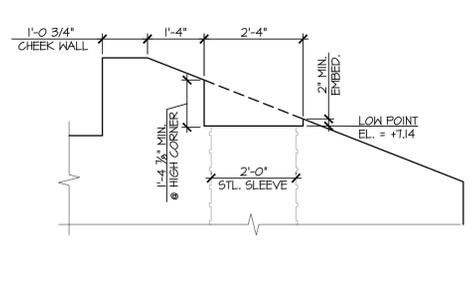


4 ABUTMENT REINFORCING NON-MARK FACE ELEVATION
 $\frac{3}{8}'' = 1'-0''$

MARK: BU-AB4	QTY: 1	WT: 35,82T	VOL: 17.69 CY
MATERIAL LIST / ABUTMENT			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-522	#5 BENT BAR (LEVEL I)	15
2	BU-523	#5 BENT BAR (LEVEL I)	5
3	BU-524	#5 BENT BAR (LEVEL I)	2
4	BU-525	#5 BENT BAR (LEVEL I)	7
5	BU-526	#5 BENT BAR (LEVEL I)	2
6	BU-524	#5 BENT BAR (LEVEL I)	2
7		#5 x 2'-2" (LEVEL I)	2
8		#5 x 3'-6" (LEVEL II, DUAL COATED)	11
9		#5 x 4'-2" (LEVEL II, DUAL COATED)	12
10		#5 x 6'-1" (LEVEL I)	2
11	BU-601L	#6 BENT BAR (LEVEL II, DUAL COATED)	16
12	BU-602	#6 BENT BAR (LEVEL I)	6
13		#6 x 2'-4" (LEVEL I)	4
14		#6 x 3'-6" (LEVEL I)	4
15		#6 x 4'-1" (LEVEL I)	25
16		#6 x 5'-2" (LEVEL I)	4
17		#6 x 5'-3" (LEVEL I)	8
18		#6 x 5'-4" (LEVEL I)	4
19		#6 x 5'-7" (LEVEL I)	4
20		#6 x 6'-1" (LEVEL I)	7
21		#6 x 7'-2" (LEVEL I)	1
22		#6 x 7'-7" (LEVEL I)	2
23		#6 x 8'-0" (LEVEL I)	1
24		#6 x 22'-7" (LEVEL I)	7
25		#6 x 23'-8" (LEVEL I)	7
26		2'-0" x 5'-4 1/4" CORR. STL. PIPE (GALV)	1
27		2'-0" x 5'-11 3/8" CORR. STL. PIPE (GALV)	1
28		2'-0" x 7'-1 3/4" CORR. STL. PIPE (GALV)	1
29		SET OF 4 0.60" x 270 KSI STRAND LIFTING LOOPS	2

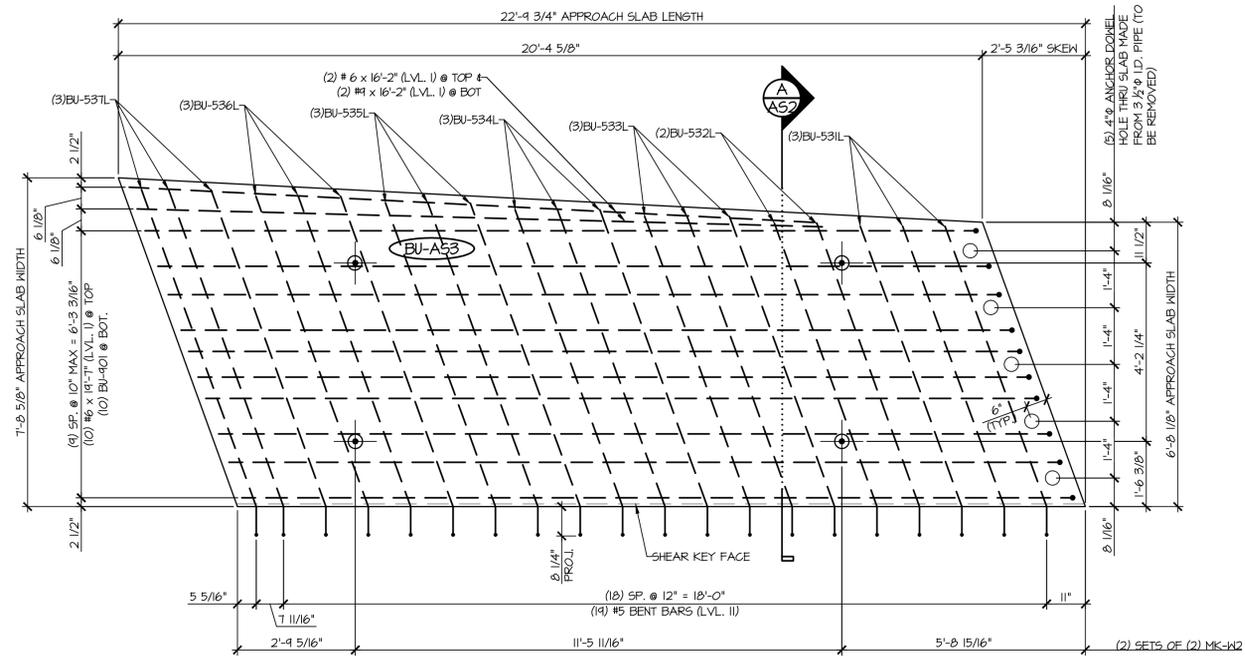


A BLOCK OUT DETAILS
 $\frac{1}{2}'' = 1'-0''$

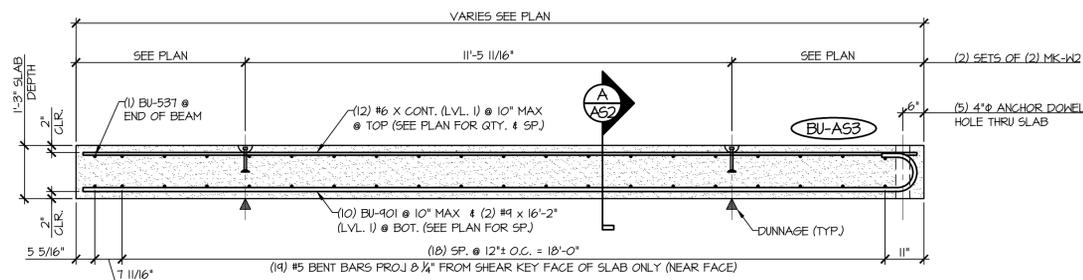


SECTION 'A'

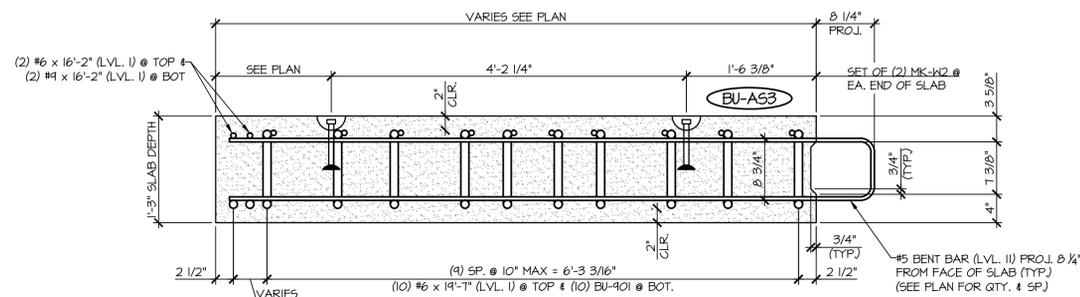
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802)388-6361 Fax: (802)388-9010	T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015
TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		SCALE: NOTED
PRECAST ABUTMENT #4 DETAILS		CHKD: DFTM: JDK JOB NO: 23454-015 DWG. NO: AB5



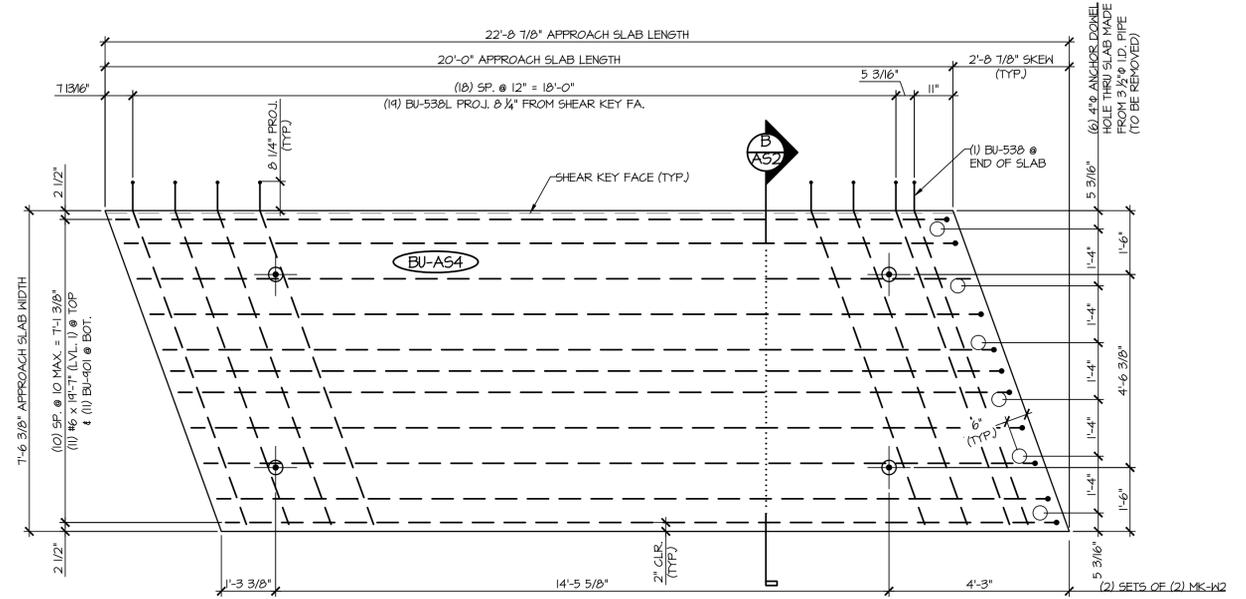
1 PLAN VIEW IN FORM
AS2 1/2" = 1'-0"



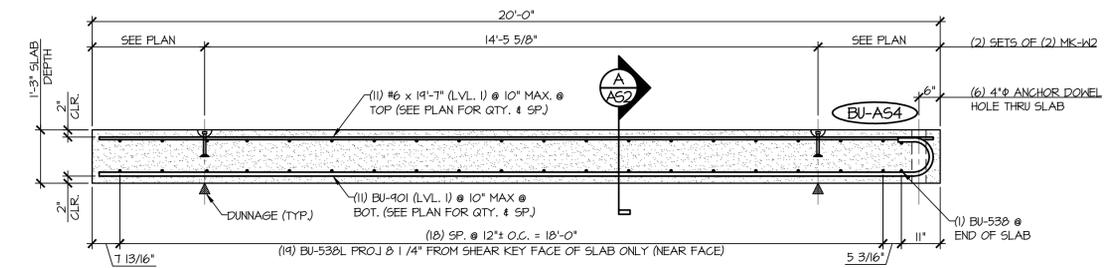
2 LONGITUDINAL SECTION
AS2 1/2" = 1'-0"



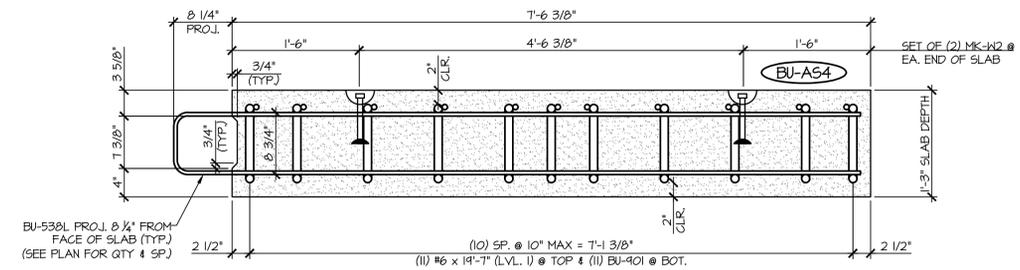
A APPROACH SLAB SECTION
AS2 1" = 1'-0"



3 PLAN VIEW IN FORM
AS2 1/2" = 1'-0"



4 LONGITUDINAL SECTION
AS2 1/2" = 1'-0"

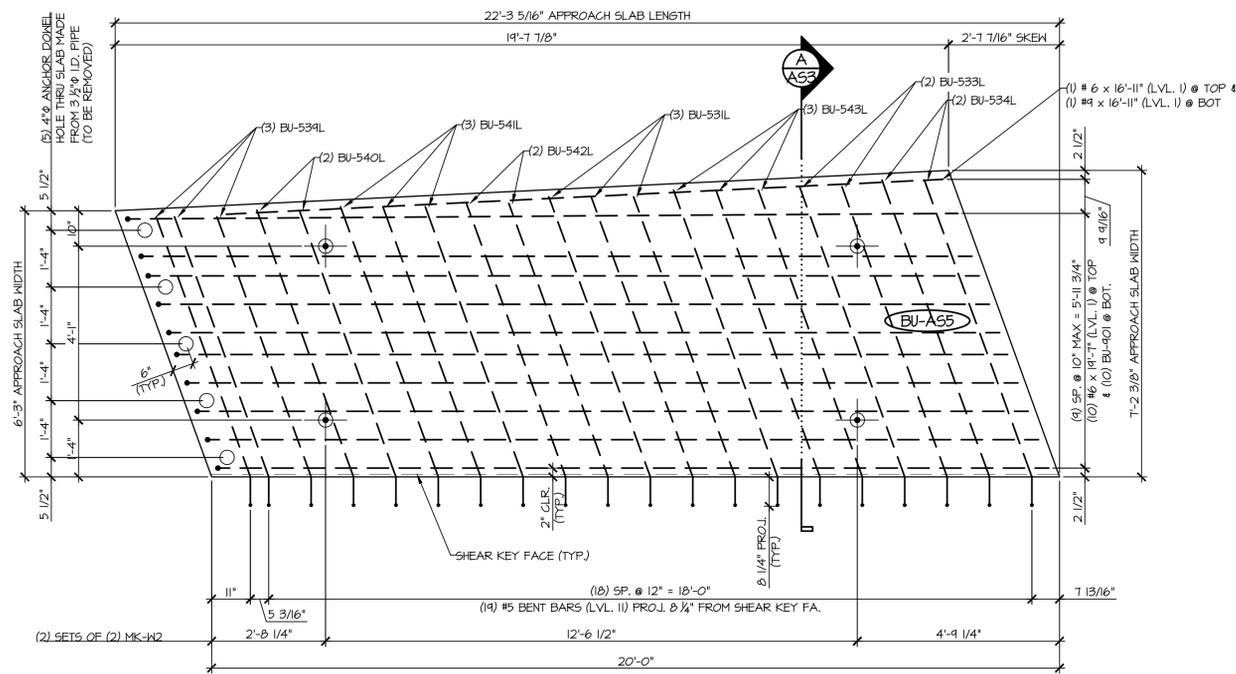


B APPROACH SLAB SECTION
AS2 1" = 1'-0"

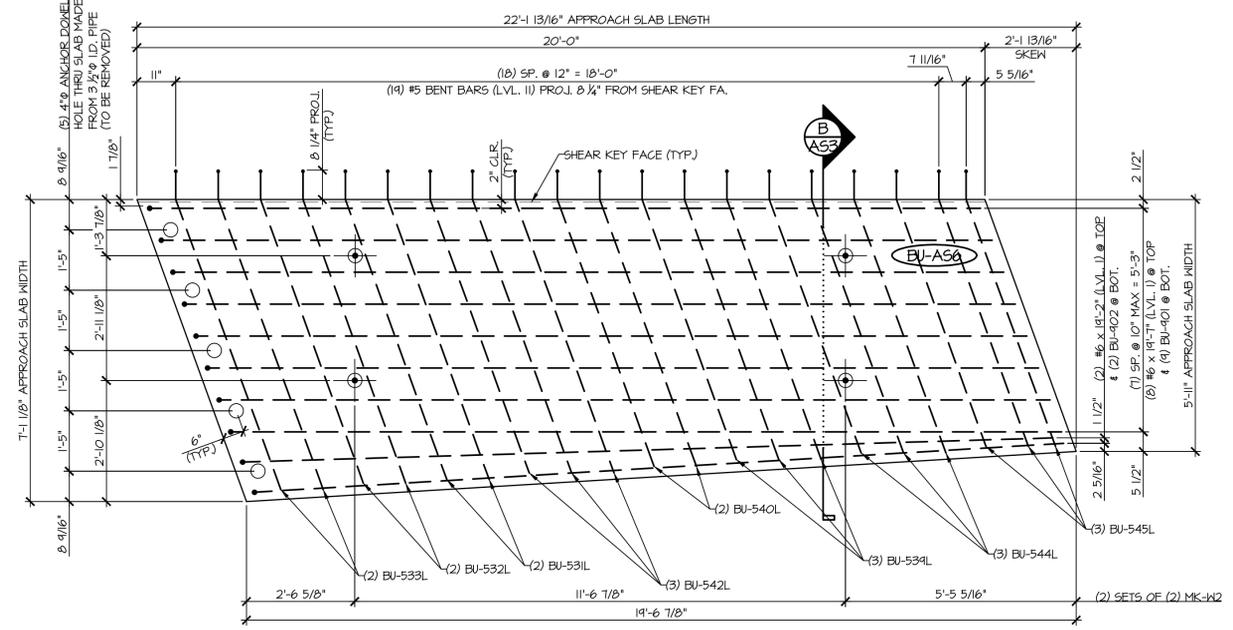
MARK: BU-A53	QTY.: 1	WT: 13.45T	VOL: 6.64 CY
MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-531L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
2	BU-532L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
3	BU-533L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
4	BU-534L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
5	BU-535L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
6	BU-536L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
7	BU-537L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
8		#6 x 19'-7" (LEVEL I)	10
9		#6 x 16'-2" (LEVEL I)	2
10	BU-901	#4 BENT BAR (LEVEL I)	10
11		#4 x 16'-2" (LEVEL I)	2
12	MK-W2	4T x 7 1/8" SWIFT LIFT LIFTER	4

MARK: BU-A54	QTY.: 1	WT: 14.07T	VOL: 6.95 CY
MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-538	#5 BENT BAR (LEVEL II, DUAL COATED)	20
2		#6 x 19'-7" (LEVEL I)	11
3	BU-901	#4 BENT BAR (LEVEL I)	11
4	MK-W2	4T x 7 1/8" SWIFT LIFT LIFTER	4

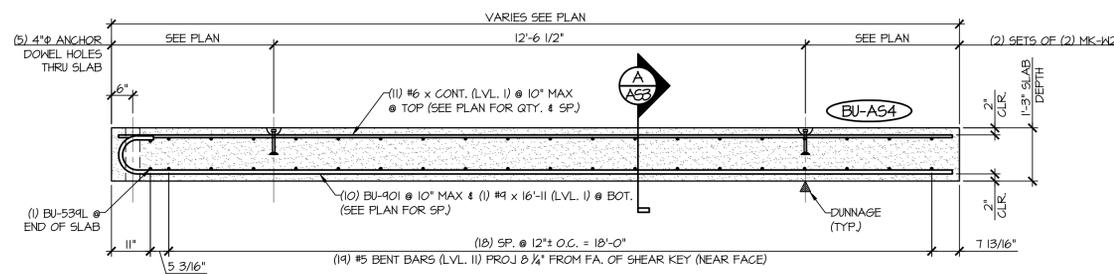
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>264 CAGE STR., MOULBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010</small>		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015 SCALE: NOTED	
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: DFTM: JDK JOB NO: 23454-015	
	PRECAST APPROACH SLAB DETAILS		DWG. NO: AS2	



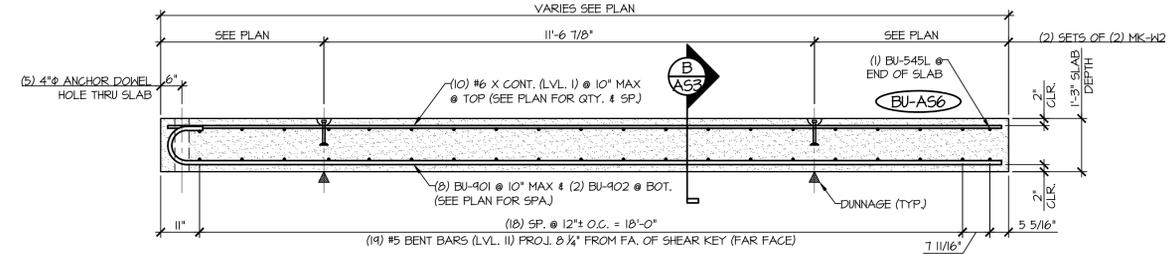
1 PLAN VIEW IN FORM
AS3 1/2" = 1'-0"



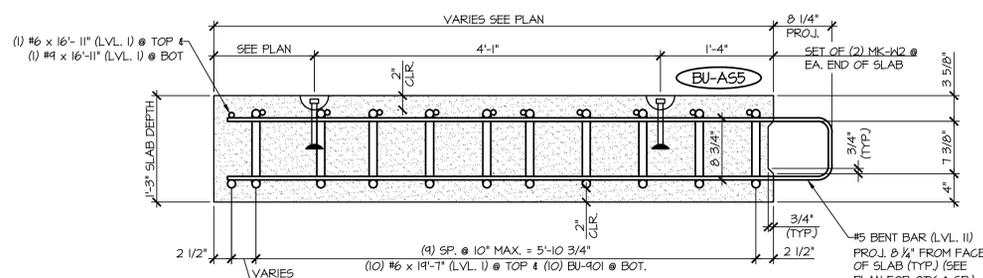
3 PLAN VIEW IN FORM
AS3 1/2" = 1'-0"



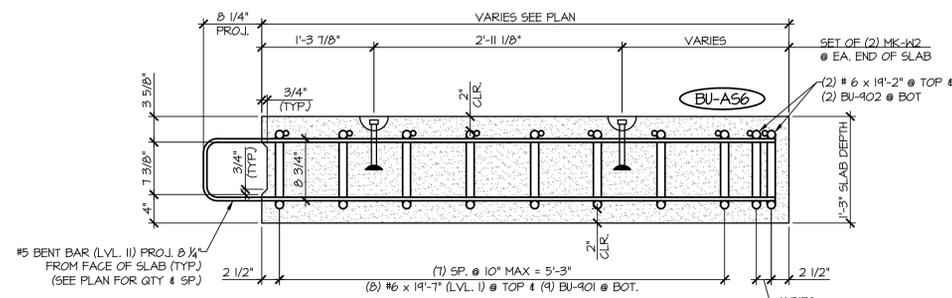
2 LONGITUDINAL SECTION
AS3 1/2" = 1'-0"



4 LONGITUDINAL SECTION
AS3 1/2" = 1'-0"



A APPROACH SLAB SECTION
AS3 1" = 1'-0"



B APPROACH SLAB SECTION
AS3 1" = 1'-0"

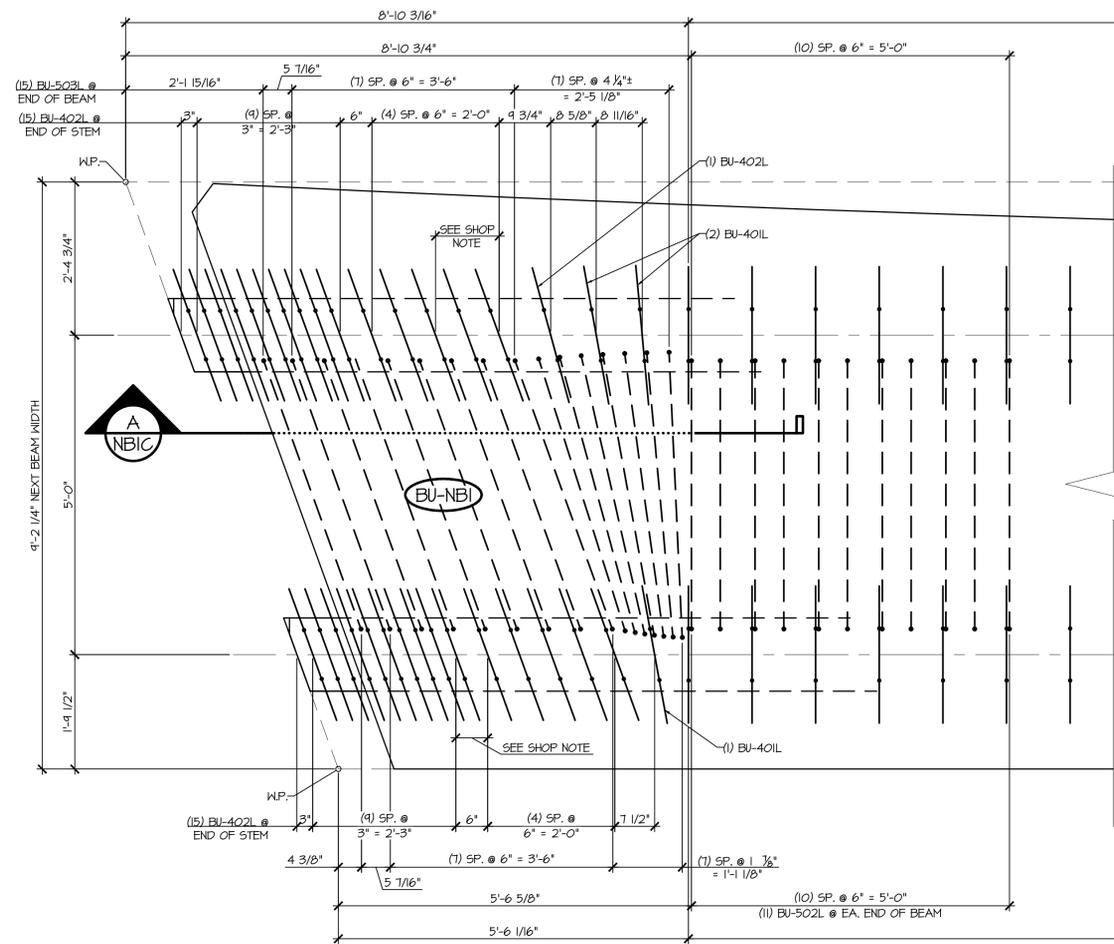
MARK: BU-AS5	QTY.: 1	WT: 12.56T	VOL: 6.20 CY
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MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-531L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
2	BU-533L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
3	BU-534L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
4	BU-534L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
5	BU-540L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
6	BU-541L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
7	BU-542L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
8	BU-543L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
9		#6 x 16'-11" (LEVEL I)	1
10		#6 x 14'-7" (LEVEL I)	10
11	BU-901	#9 BENT BAR (LEVEL I)	10
12	BU-902	#9 BENT BAR (LEVEL I)	1
13	MK-W2	4T x 7 1/8" SWIFT LIFT LIFTER	4

MARK: BU-AS6	QTY.: 1	WT: 12.15T	VOL: 6.00 CY
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MATERIAL LIST / APPROACH SLAB			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-531L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
2	BU-532L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
3	BU-533L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
4	BU-534L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
5	BU-540L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
6	BU-542L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
7	BU-544L	#5 BENT BAR (LEVEL II, DUAL COATED)	3
8	BU-545L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
9		#6 x 14'-2" (LEVEL I)	2
10		#6 x 14'-7" (LEVEL I)	8
11	BU-901	#9 BENT BAR (LEVEL I)	8
12	BU-902	#9 BENT BAR (LEVEL I)	2
14	MK-W2	4T x 7 1/8" SWIFT LIFT LIFTER	4

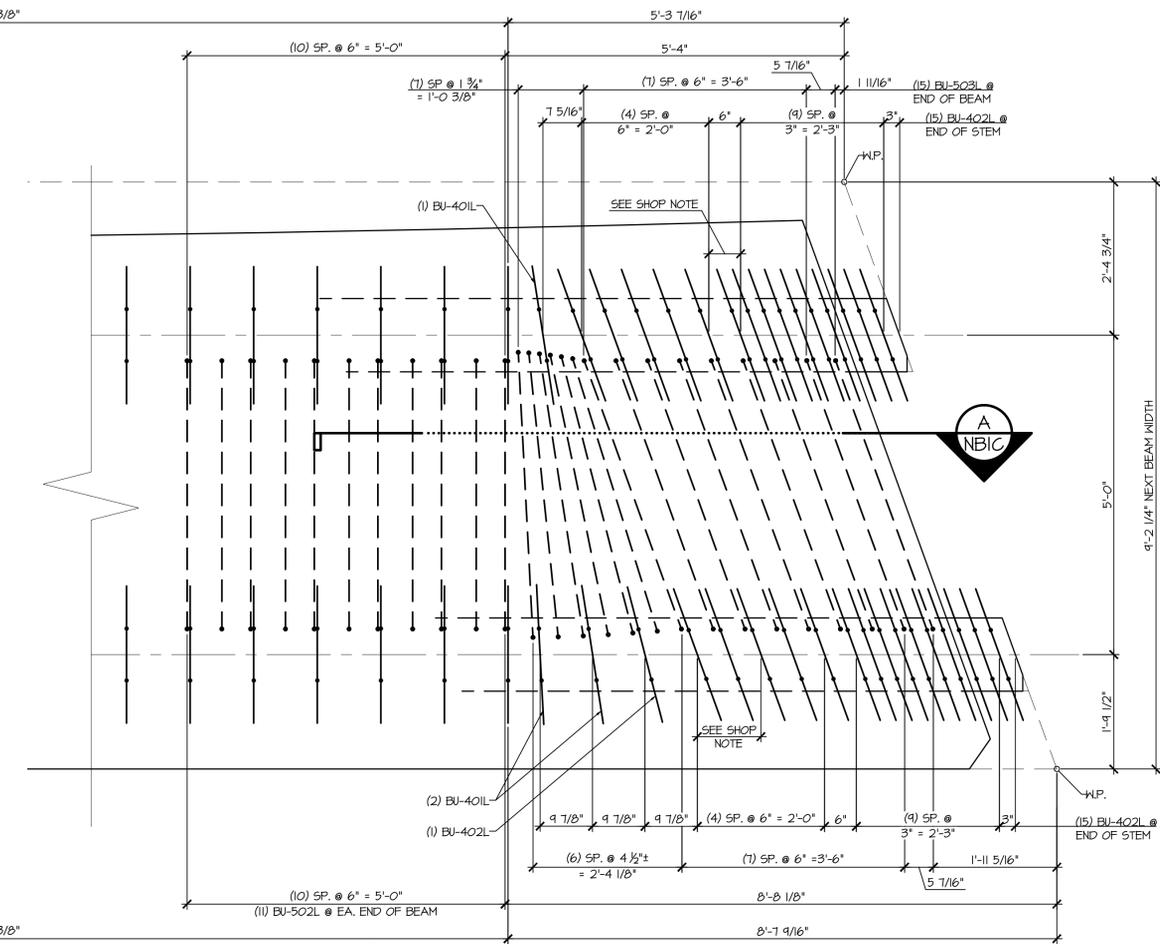
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 264 CASE STR., MOULBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: DFTM: JDK	JOB NO: 23454-015
	PRECAST APPROACH SLAB DETAILS		DWG. NO: AS3	



1 STEM REINFORCING PLAN VIEW IN FORM
NBIC $\frac{3}{4}'' = 1'-0''$

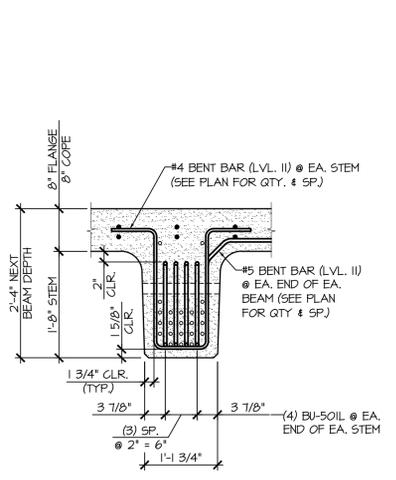
- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NBID FOR REINFORCING PLAN
- SEE SHEET NBIB FOR SIDEWALK REINFORCING PLAN
- SEE SHEET NBID FOR FLANGE REINFORCING AT BEAM END

SHOP NOTE
- STIRRUP SPACING TO BE ADJUSTED TO ALLOW FOR 2" PVC SLEEVE

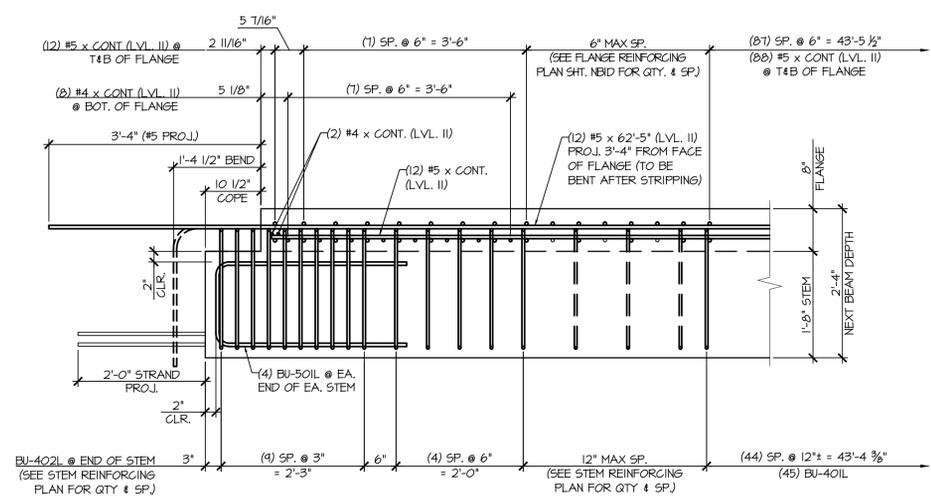


2 STEM REINFORCING PLAN VIEW IN FORM
NBIC $\frac{3}{4}'' = 1'-0''$

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NBID FOR REINFORCING PLAN
- SEE SHEET NBIB FOR SIDEWALK REINFORCING PLAN
- SEE SHEET NBID FOR FLANGE REINFORCING AT BEAM END



STEM SECTION



STEM ELEVATION

A END BLOCK STEM REINFORCING DETAILS
NBIC $\frac{3}{4}'' = 1'-0''$

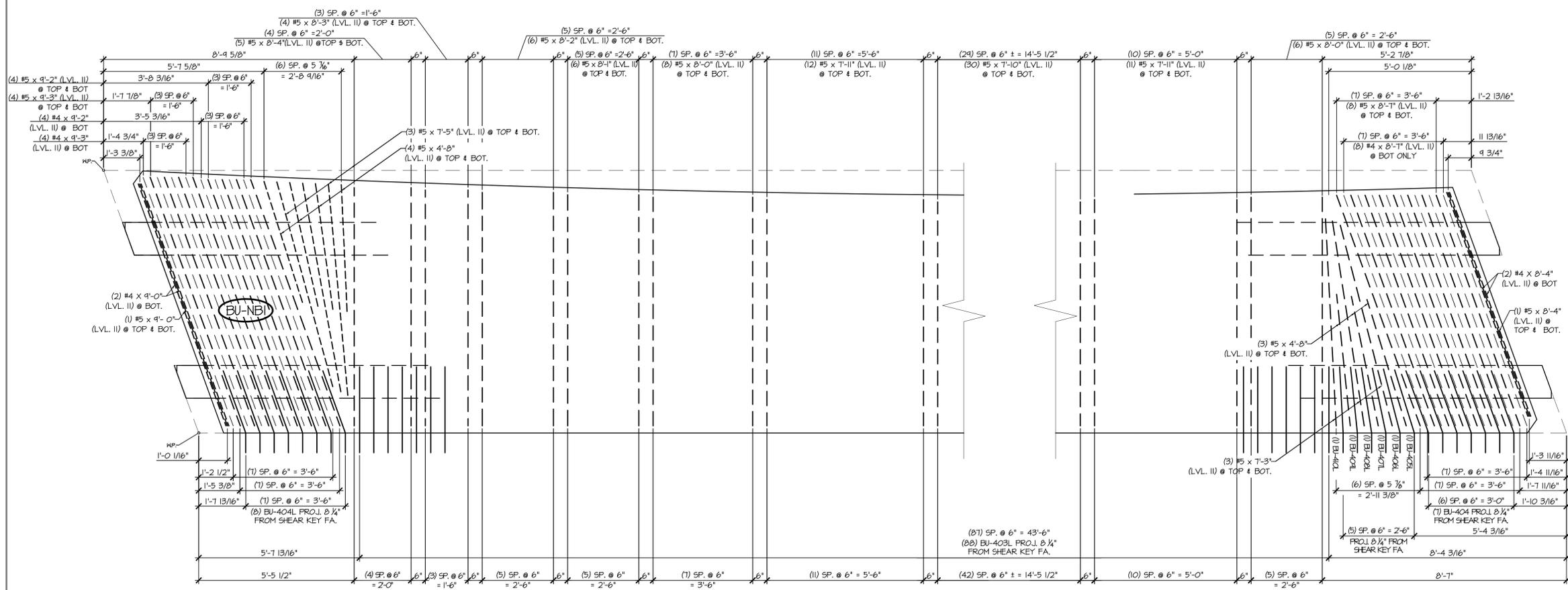
APPROVAL STAMP:

	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 264 CASE STR., MOULBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		SCALE: NOTED	CHKD: DFTM: JDK
	PRESTRESSED NEXT BEAM DETAILS		JOB NO: 23454-015	DWG. NO: NBIC

MARK: BU-NBI	QTY.:	WT: 47.52T	VOL: 23.47CY
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MATERIAL LIST / ABUTMENT

ITEM	MARK	DESCRIPTION	QTY.
1	BU-401L	#4 BENT BAR (LEVEL II, DUAL COATED)	96
2	BU-402L	#4 BENT BAR (LEVEL II, DUAL COATED)	62
3	BU-403L	#4 BENT BAR (LEVEL II, DUAL COATED)	88
4	BU-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	15
5	BU-405L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
6	BU-406L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
7	BU-407L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
8	BU-408L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
9	BU-409L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
10	BU-410L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
11		#4 x 8'-4" (LEVEL II, DUAL COATED)	2
12		#4 x 8'-7" (LEVEL II, DUAL COATED)	8
13		#4 x 9'-0" (LEVEL II, DUAL COATED)	2
14		#4 x 9'-2" (LEVEL II, DUAL COATED)	4
15		#4 x 9'-3" (LEVEL II, DUAL COATED)	4
16	BU-501L	#5 BENT BAR (LEVEL II, DUAL COATED)	16
17	BU-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	22
18	B-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	30
19	BU-504L	#5 BENT BAR (LEVEL II, DUAL COATED)	31
20	BU-505L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
21	BU-506L	#5 BENT BAR (LEVEL II, DUAL COATED)	4
22	BU-507L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
23	BU-508L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
24	BU-509L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
25	BU-510L	#5 BENT BAR (LEVEL II, DUAL COATED)	11
26	BU-511L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
27	BU-512L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
28	BU-513L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
29	BU-514L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
30	BU-515L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
31	BU-516L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
32	BU-517L	#5 BENT BAR (LEVEL II, DUAL COATED)	1
33	BU-518L	#5 BENT BAR (LEVEL II, DUAL COATED)	8
34	BU-519L	#5 BENT BAR (LEVEL II, DUAL COATED)	2
35	BU-520L	#5 BENT BAR (LEVEL II, DUAL COATED)	5
36		#5 x 4'-8" (LEVEL II, DUAL COATED)	14
37		#5 x 7'-3" (LEVEL II, DUAL COATED)	6
38		#5 x 7'-5" (LEVEL II, DUAL COATED)	6
39		#5 x 7'-10" (LEVEL II, DUAL COATED)	60
40		#5 x 7'-11" (LEVEL II, DUAL COATED)	46
41		#5 x 8'-0" (LEVEL II, DUAL COATED)	28
42		#5 x 8'-1" (LEVEL II, DUAL COATED)	12
43		#5 x 8'-2" (LEVEL II, DUAL COATED)	12
44		#5 x 8'-3" (LEVEL II, DUAL COATED)	8
45		#5 x 8'-4" (LEVEL II, DUAL COATED)	12
46		#5 x 8'-7" (LEVEL II, DUAL COATED)	16
47		#5 x 9'-0" (LEVEL II, DUAL COATED)	2
48		#5 x 9'-2" (LEVEL II, DUAL COATED)	8
49		#5 x 9'-3" (LEVEL II, DUAL COATED)	8
50		#5 x 55'-5" (LEVEL II, DUAL COATED)	12
51		#5 x 62'-5" (LEVEL II, DUAL COATED)	12
52		SET OF (4) 0.60"φ x 270 KSI STRAND LIFTING LOOPS	4
53		DAYTON B-16 COIL LOOP INSERTS, 3/4" COIL, SML 3000	28

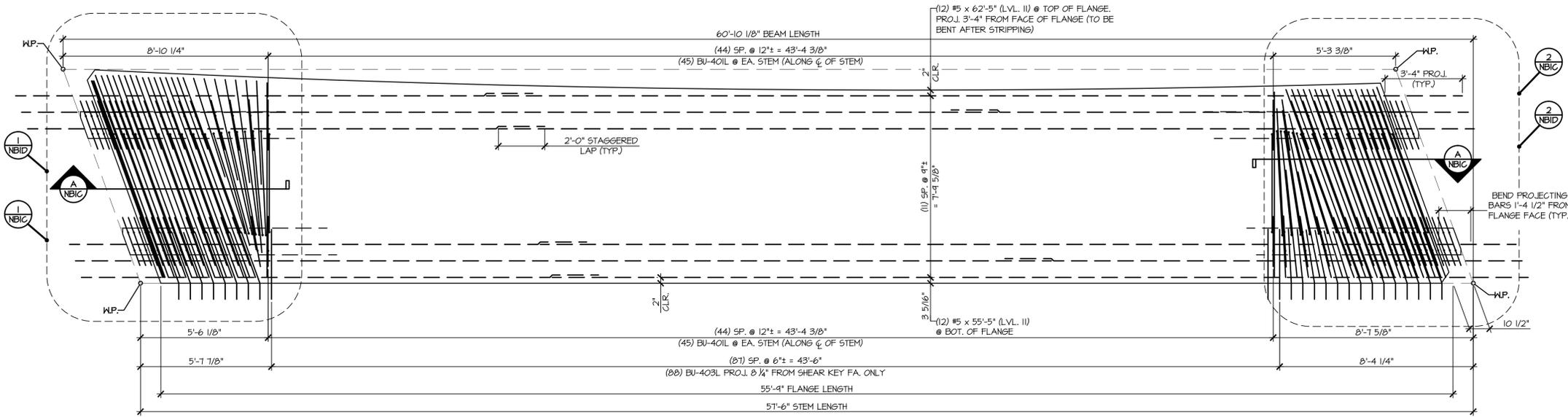


1 NBID FLANGE REINFORCING PLAN VIEW IN FORM
1/2" = 1'-0"

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NBIB FOR SIDEWALK REINFORCING PLAN
- SEE SHEET NBID FOR STEM REINFORCING AT BEAM END

2 NBID FLANGE REINFORCING PLAN VIEW IN FORM
1/2" = 1'-0"

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NBIB FOR SIDEWALK REINFORCING PLAN
- SEE SHEET NBID FOR STEM REINFORCING AT BEAM END



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

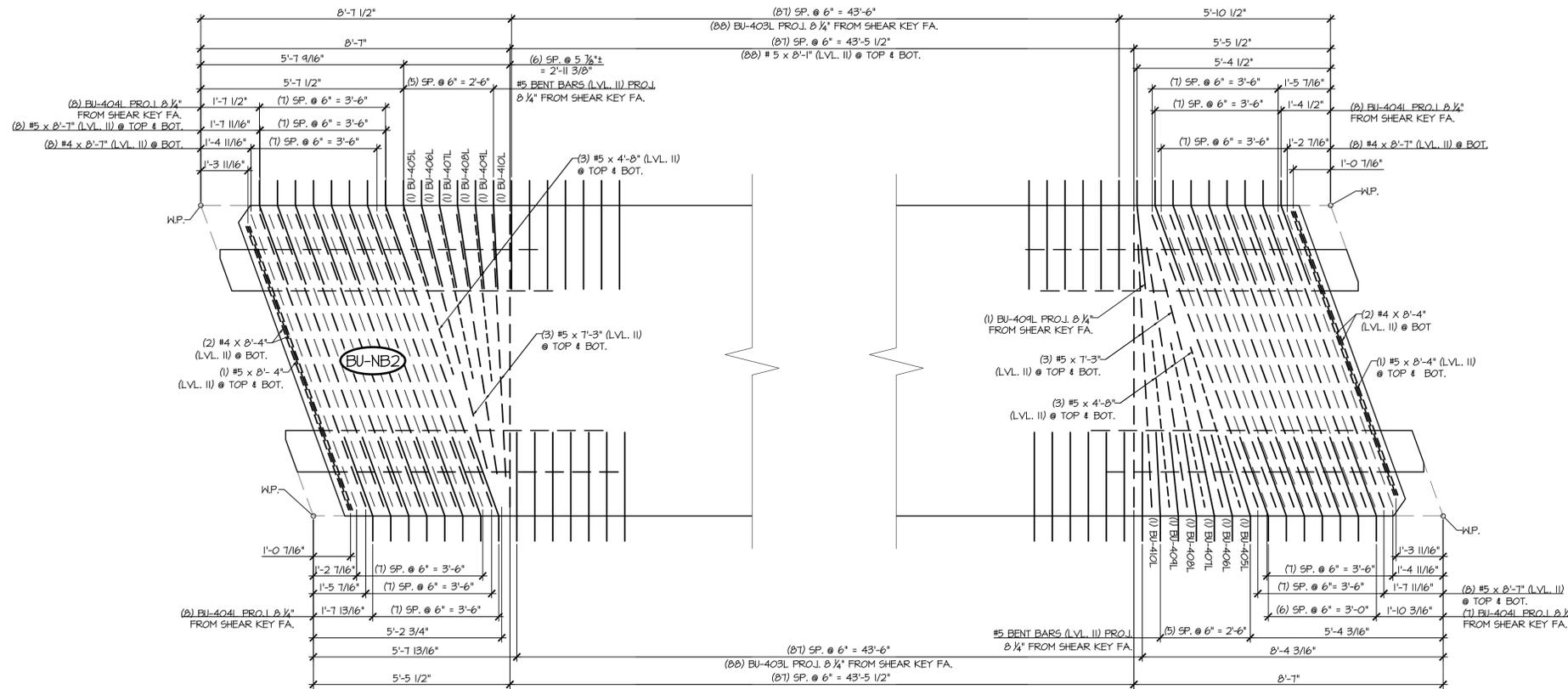
- SEE DETAIL "NBIB" FOR SIDEWALK, DRIVEWAY & RAILING LAYOUT & REINFORCEMENT DETAILS
- SEE SHT. "NBIC" FOR STEM REINFORCEMENT DETAILS
- SEE SHT. "NBID" FOR FLANGE REINFORCEMENT DETAILS

APPROVAL STAMP:

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>264 CASE STR., MOULBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010</small>	T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA	DATE: MAR. 24, 2015 SCALE: NOTED
TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)	CHKD:	DFTM: JDK
PRESTRESSED NEXT BEAM DETAILS	JOB NO: 23454-015 DWG. NO: NBID	

MARK: BU-NB2	QTY.: 2	WT: 41.34 T	VOL: 20.42 CY
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MATERIAL LIST / NEXT BEAM			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-401L	#4 BENT BAR (LEVEL II, DUAL COATED)	46
2	BU-402L	#4 BENT BAR (LEVEL II, DUAL COATED)	62
3	BU-403L	#4 BENT BAR (LEVEL II, DUAL COATED)	176
4	BU-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	31
5	BU-405L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
6	BU-406L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
7	BU-407L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
8	BU-408L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
9	BU-409L	#4 BENT BAR (LEVEL II, DUAL COATED)	3
10	BU-410L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
11		#4 x 8'-4" (LEVEL II, DUAL COATED)	4
12		#4 x 8'-7" (LEVEL II, DUAL COATED)	16
13	BU-501L	#5 BENT BAR (LEVEL II, DUAL COATED)	16
14	BU-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	22
15	BU-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	30
16		#5 x 4'-8" (LEVEL II, DUAL COATED)	12
17		#5 x 7'-3" (LEVEL II, DUAL COATED)	12
18		#5 x 8'-1" (LEVEL II, DUAL COATED)	176
19		#5 x 8'-4" (LEVEL II, DUAL COATED)	4
20		#5 x 8'-7" (LEVEL II, DUAL COATED)	32
21		#5 x 55'-5" (LEVEL II, DUAL COATED)	12
22		#5 x 62'-5" (LEVEL II, DUAL COATED)	12
23		SET OF (4) 0.60"φ x 270 KSI STRAND LIFTING LOOPS	4
24		DAYTON B-16 COIL LOOP INERTS, 3/4" COIL, 5#L 3000	28

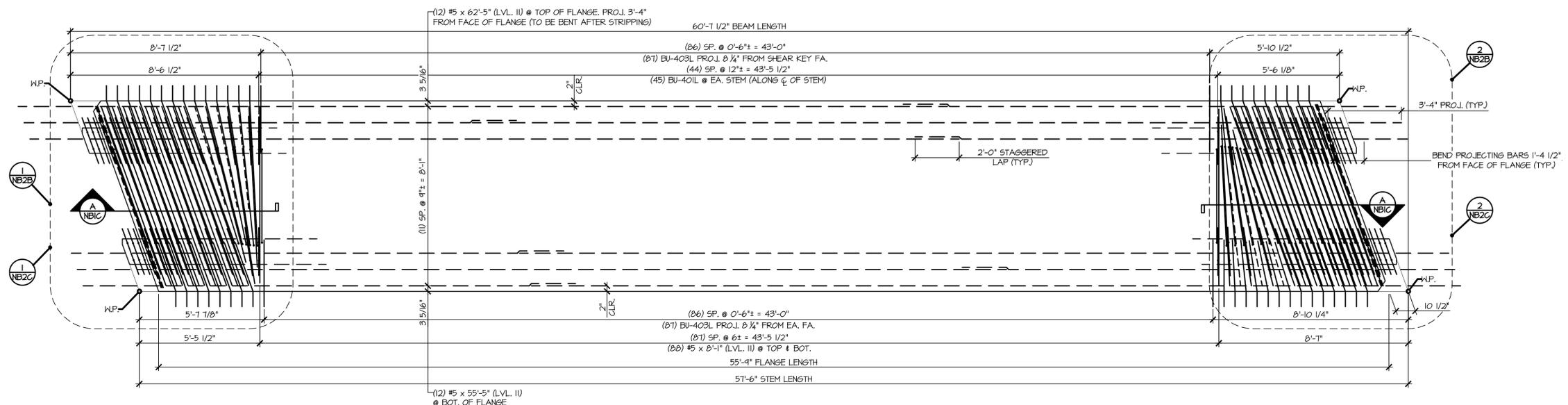


1 FLANGE REINFORCING PLAN VIEW IN FORM NB2C
 1/2" = 1'-0"

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
 - SEE SHEET NB2B FOR STEM REINFORCING AT BEAM END

2 FLANGE REINFORCING PLAN VIEW IN FORM NB2C
 1/2" = 1'-0"

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
 - SEE SHEET NB2B FOR STEM REINFORCING AT BEAM END

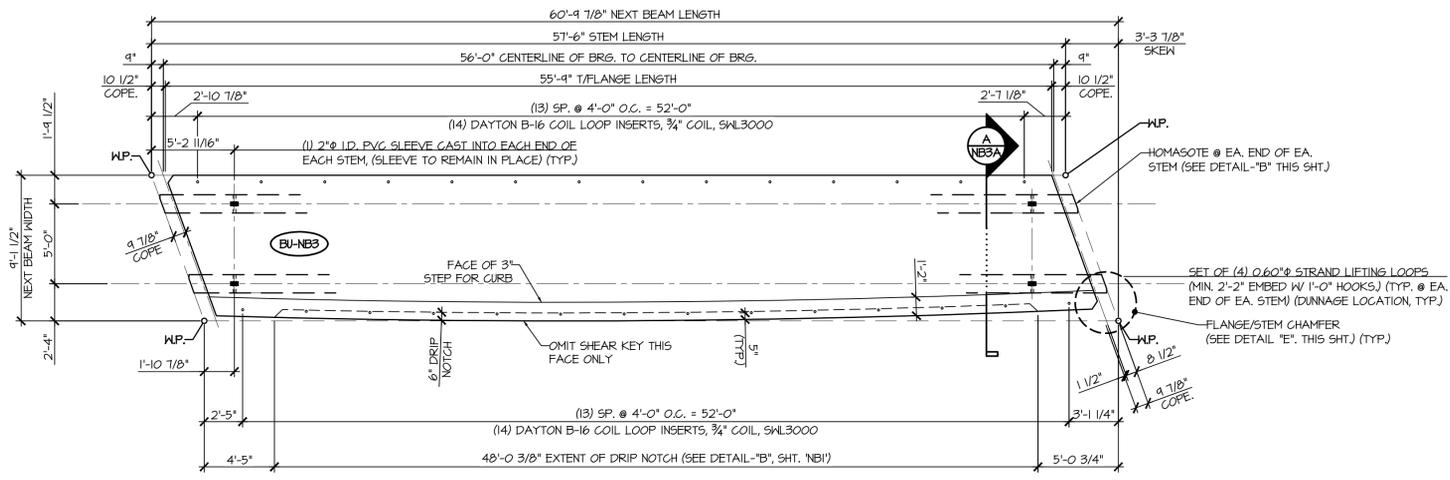


3 REINFORCING PLAN VIEW IN FORM NB2C
 3/16" = 1'-0"

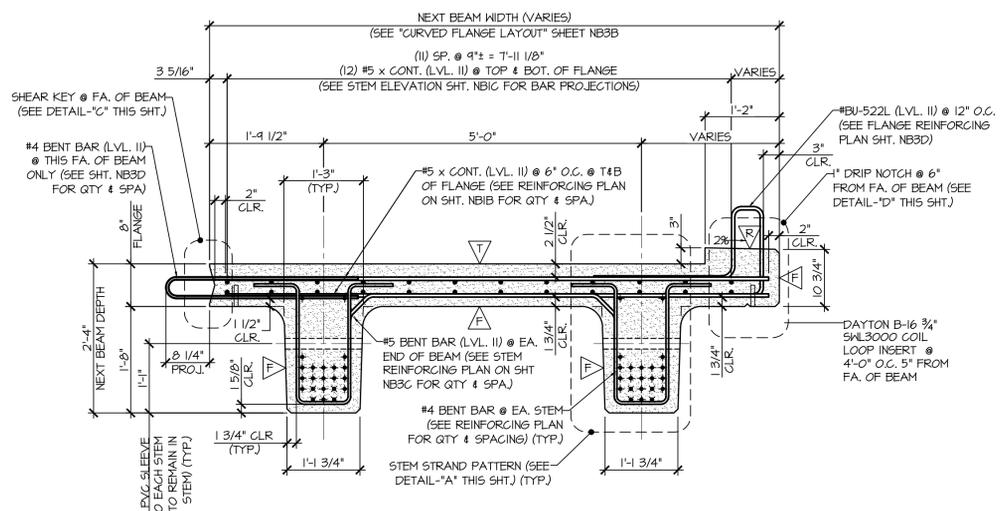
- SEE SH. NB2B FOR STEM REINFORCEMENT AT BEAM ENDS
 - SEE '1/NB2C' FOR FLANGE REINFORCEMENT AT BEAM ENDS

APPROVAL STAMP:

J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2464 CASE STR., MOULBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010</small>		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015 SCALE: NOTED	
TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: DFTM: JDK JOB NO: 23454-015	
PRESTRESSED NEXT BEAM DETAILS		DWG. NO: NB2C	



I
NB3A
DIMENSIONAL PLAN VIEW IN FORM
3/8" = 1'-0"

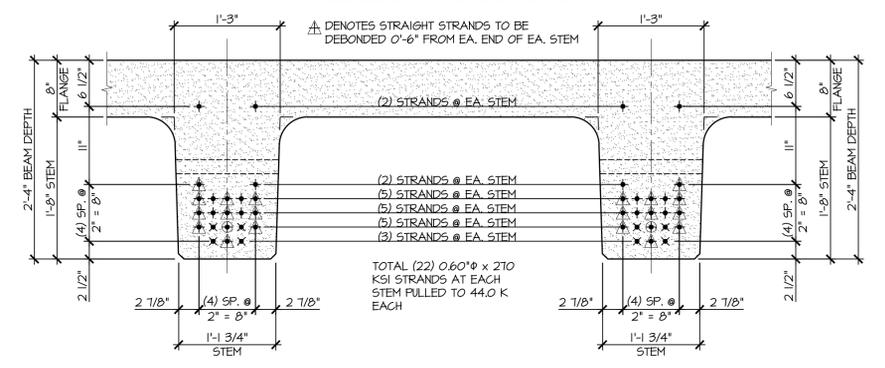


A
NB3A
DIMENSIONAL & REINFORCING SECTION
3/4" = 1'-0"

- DENOTES FORM FINISH
- DENOTES SMOOTH SCREED FINISH
- DENOTES ROUGHENED FINISH
1/8" AMPLITUDE
- DENOTES ROUGHENED FINISH
1/4" RAKE

PRESTRESSING NOTATIONS

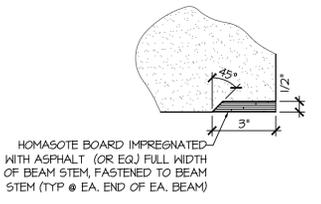
- + DENOTES STRAIGHT STRAND TO BE CUT FLUSH WITH EA. END OF EA. STEM
- x DENOTES STRAIGHT STRAND TO EXTEND 2'-0" FROM EA. END OF EA. STEM
- ⊕ DENOTES STRAIGHT STRANDS TO BE DEBONDED 2'-0" FROM EA. END OF EA. STEM
- △ DENOTES STRAIGHT STRANDS TO BE DEBONDED 0'-6" FROM EA. END OF EA. STEM



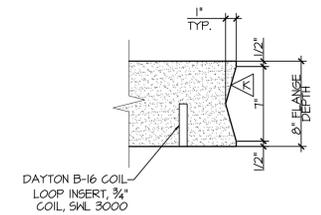
DETAIL - "A" (STEM STRAND PATTERN)
1" = 1'-0"

1	3	4	2
5	7	8	6
15	11	12	14
25	21	22	24
35	31	32	34
45	41	42	44

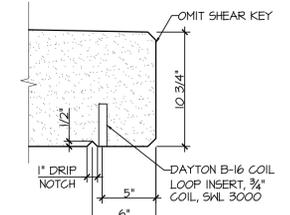
DETENSING SCHEDULE
N.T.S.



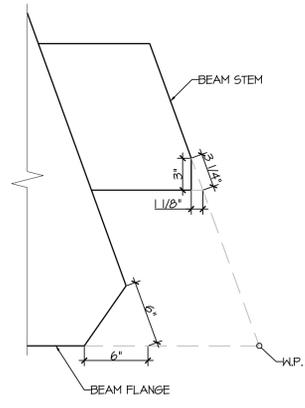
DETAIL - "B"
3" = 1'-0"



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



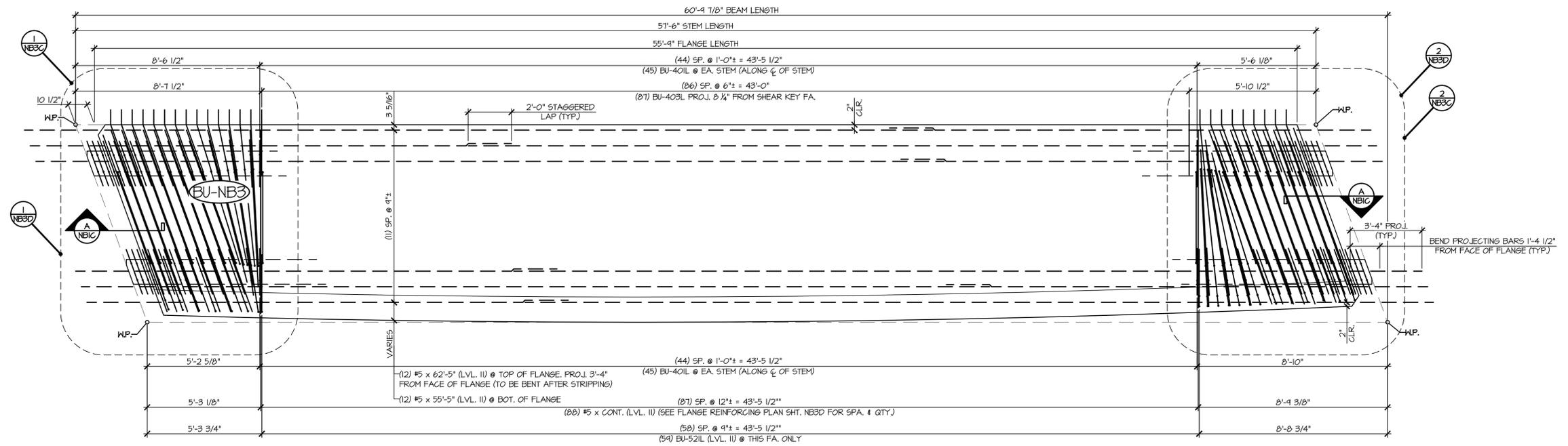
DETAIL - "D"
1 1/2" = 1'-0"



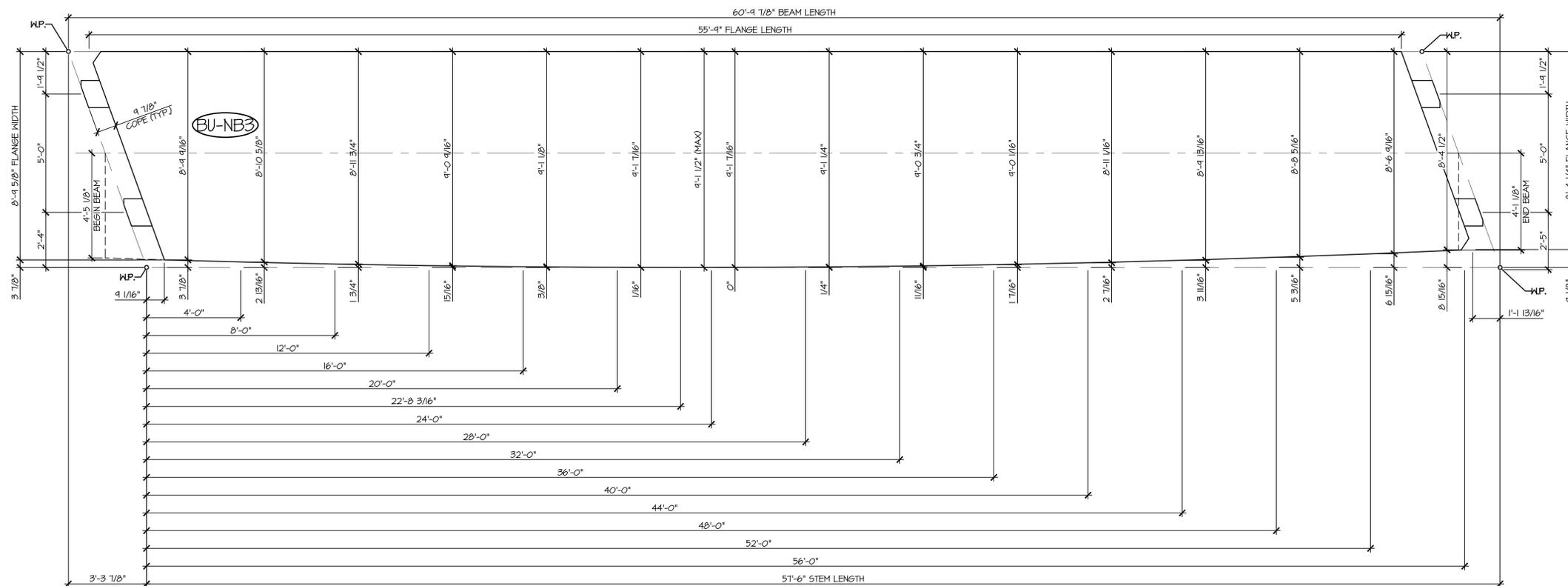
DETAIL - "E"
1 1/2" = 1'-0"

MARK: BU-NB3	QTY.: 1	WT: 43.11 T	VOL: 21.29 CY
--------------	---------	-------------	---------------

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE ST., MOULBURY, VERMONT 05753 Phone: (802) 388-6361 Fax: (802) 388-9010		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: DFTM: JDK	JOB NO: 23454-015
	PRESTRESSED NEXT BEAM DETAILS		DWG. NO: NB3A	

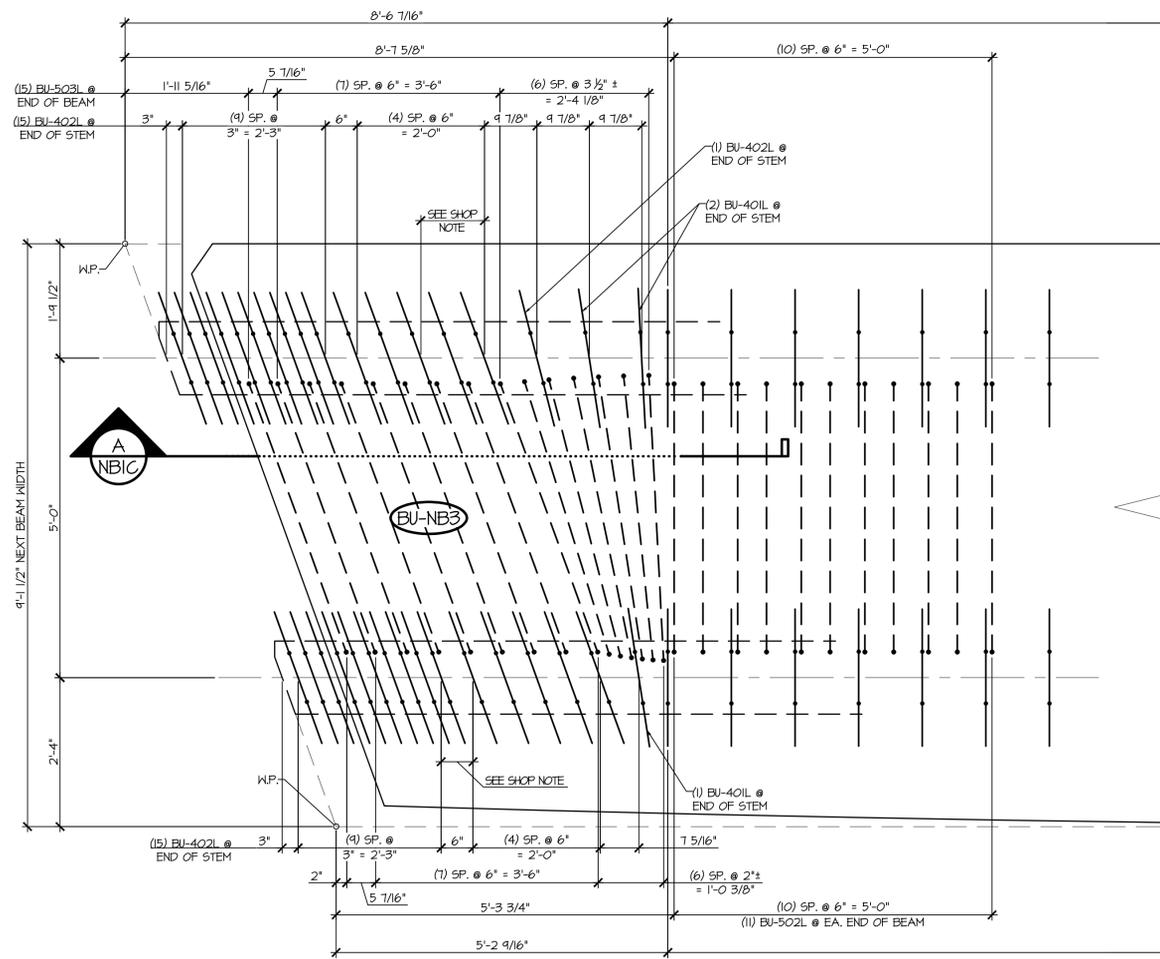


REINFORCING PLAN VIEW IN FORM
NB3B $\frac{3}{8}'' = 1'-0''$
 SEE SHEET 'NB3C' FOR STEM REINFORCING AT BEAM ENDS
 - SEE SHEET 'NB3D' FOR FLANGE & TEXAS RAIL REINFORCING AT BEAM END



2
NB3B **CURVED FLANGE LAYOUT**
 $\frac{3}{8}'' = 1'-0''$

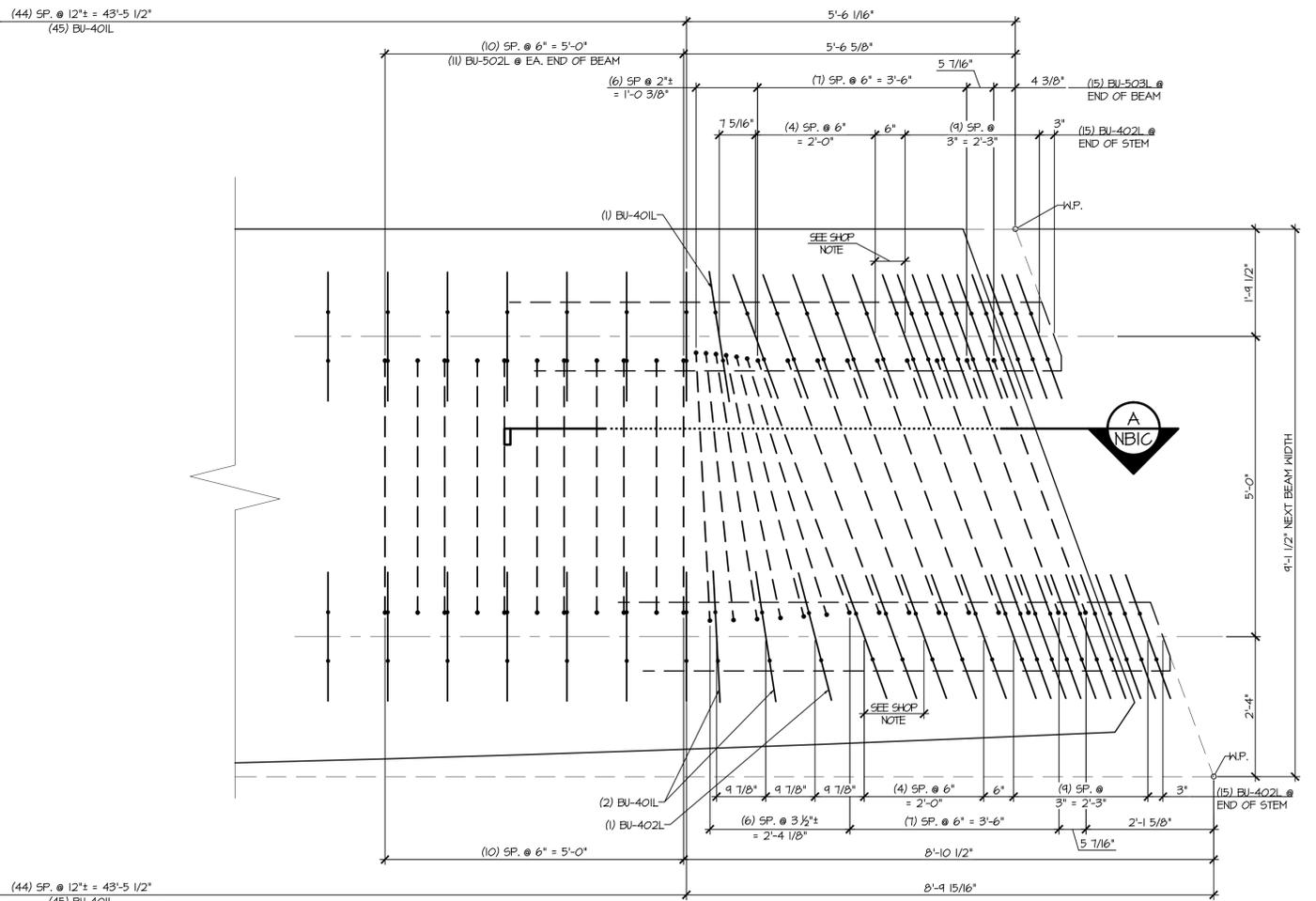
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer <small>2464 CASE STR., MOULDERY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010</small>		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		SCALE: NOTED	CHKD: DFTM: JDK
	PRESTRESSED NEXT BEAM DETAILS		JOB NO: 23454-015	DWG. NO: NB3B



1
NB3C
STEM REINFORCING PLAN VIEW IN FORM
3/4\" = 1'-0\"

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NB3B FOR REINFORCING PLAN
- SEE SHEET NB3D FOR FLANGE REINFORCING AT BEAM END

SHOP NOTE
- STIRRUP SPACING TO BE ADJUSTED
TO ALLOW FOR 2\" PVC SLEEVE

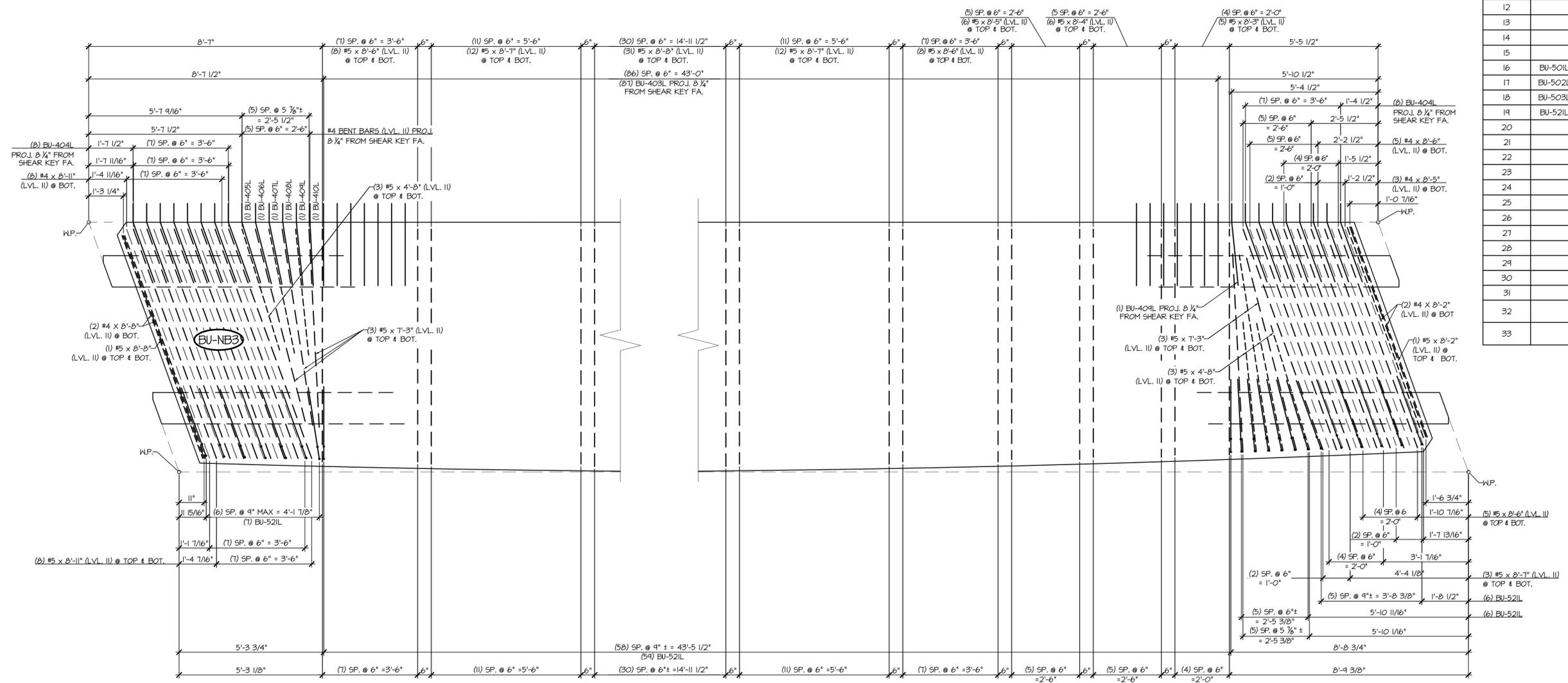


2
NB3C
STEM REINFORCING PLAN VIEW IN FORM
3/4\" = 1'-0\"

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NB3B FOR REINFORCING PLAN
- SEE SHEET NB3D FOR FLANGE REINFORCING AT BEAM END

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: _____	DFTM: JDK
	PRESTRESSED NEXT BEAM DETAILS		JOB NO: 23454-015	DWG. NO: NB3C

MATERIAL LIST / NEXT BEAM			
ITEM	MARK	DESCRIPTION	QTY.
1	BU-401L	#4 BENT BAR (LEVEL II, DUAL COATED)	46
2	BU-402L	#4 BENT BAR (LEVEL II, DUAL COATED)	62
3	BU-403L	#4 BENT BAR (LEVEL II, DUAL COATED)	81
4	BU-404L	#4 BENT BAR (LEVEL II, DUAL COATED)	16
5	BU-405L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
6	BU-406L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
7	BU-407L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
8	BU-408L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
9	BU-409L	#4 BENT BAR (LEVEL II, DUAL COATED)	2
10	BU-410L	#4 BENT BAR (LEVEL II, DUAL COATED)	1
11		#4 x 8'-2" (LEVEL II, DUAL COATED)	2
12		#4 x 8'-2" (LEVEL II, DUAL COATED)	3
13		#4 x 8'-6" (LEVEL II, DUAL COATED)	5
14		#4 x 8'-8" (LEVEL II, DUAL COATED)	2
15		#4 x 8'-11" (LEVEL II, DUAL COATED)	8
16	BU-501L	#5 BENT BAR (LEVEL II, DUAL COATED)	16
17	BU-502L	#5 BENT BAR (LEVEL II, DUAL COATED)	22
18	BU-503L	#5 BENT BAR (LEVEL II, DUAL COATED)	30
19	BU-521L	#5 BENT BAR (LEVEL II, DUAL COATED)	78
20		#5 x 4'-8" (LEVEL II, DUAL COATED)	12
21		#5 x 7'-3" (LEVEL II, DUAL COATED)	12
22		#5 x 8'-2" (LEVEL II, DUAL COATED)	2
23		#5 x 8'-3" (LEVEL II, DUAL COATED)	10
24		#5 x 8'-4" (LEVEL II, DUAL COATED)	12
25		#5 x 8'-5" (LEVEL II, DUAL COATED)	12
26		#5 x 8'-6" (LEVEL II, DUAL COATED)	42
27		#5 x 8'-7" (LEVEL II, DUAL COATED)	54
28		#5 x 8'-8" (LEVEL II, DUAL COATED)	64
29		#5 x 8'-11" (LEVEL II, DUAL COATED)	16
30		#5 x 5'-5" (LEVEL II, DUAL COATED)	12
31		#5 x 6'-2" (LEVEL II, DUAL COATED)	12
32		SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	4
33		DAYTON B-16 COIL LOOP INSERTS, 3/4" COIL, S/WL 3000	28



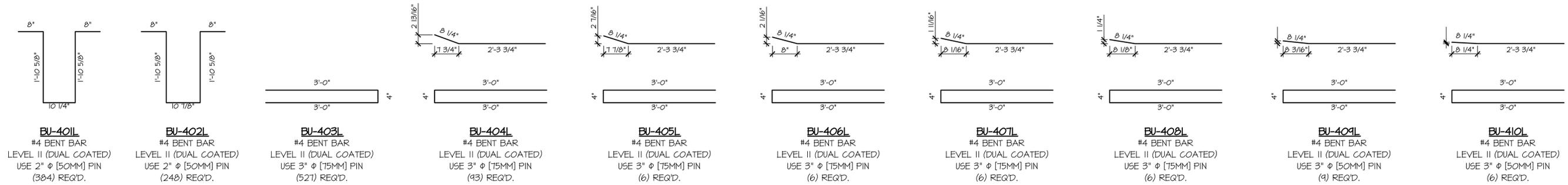
1 NB3D FLANGE REINFORCING PLAN VIEW IN FORM
1/2" = 1'-0"

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NB3B FOR REINFORCING PLAN
- SEE SHEET NB3C FOR STEM REINFORCING AT BEAM END

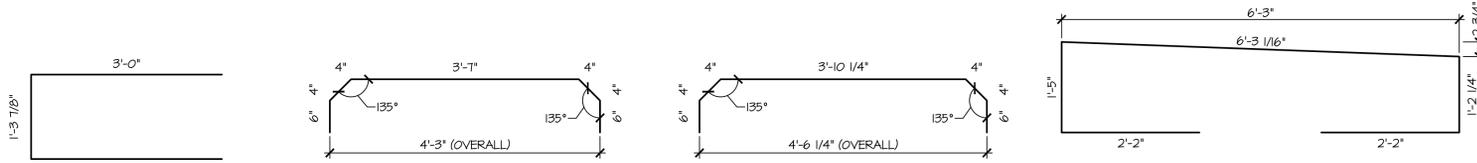
2 NB3D FLANGE REINFORCING PLAN VIEW IN FORM
1/2" = 1'-0"

- LONGITUDINAL REINFORCING NOT SHOWN FOR CLARITY
- SEE SHEET NB3B FOR REINFORCING PLAN
- SEE SHEET NB3C FOR STEM REINFORCING AT BEAM END

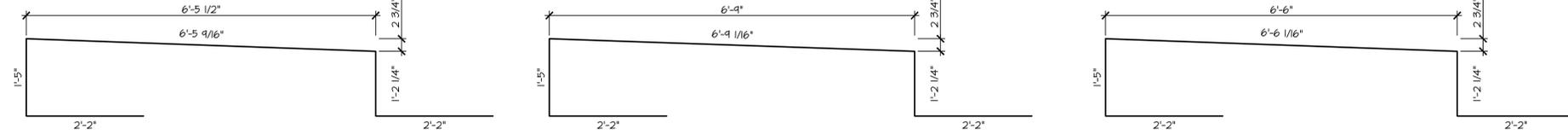
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 264 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: _____	DFTM: JDK
	PRESTRESSED NEXT BEAM DETAILS		JOB NO: 23454-015	DWG. NO: NB3D



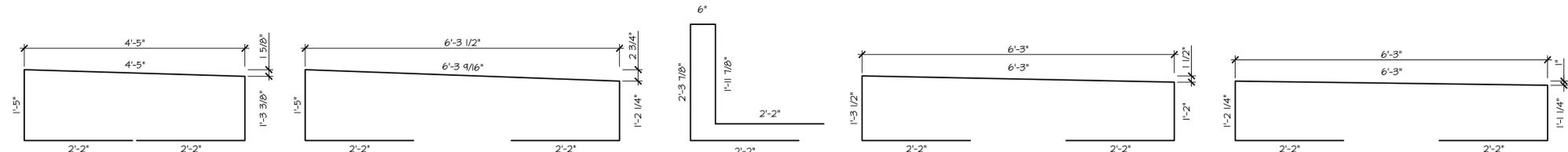
BU-401L #4 BENT BAR LEVEL II (DUAL COATED) USE 2" ϕ [50MM] PIN (304) REQ'D.
BU-402L #4 BENT BAR LEVEL II (DUAL COATED) USE 2" ϕ [50MM] PIN (248) REQ'D.
BU-403L #4 BENT BAR LEVEL II (DUAL COATED) USE 3" ϕ [75MM] PIN (527) REQ'D.
BU-404L #4 BENT BAR LEVEL II (DUAL COATED) USE 3" ϕ [75MM] PIN (43) REQ'D.
BU-405L #4 BENT BAR LEVEL II (DUAL COATED) USE 3" ϕ [75MM] PIN (6) REQ'D.
BU-406L #4 BENT BAR LEVEL II (DUAL COATED) USE 3" ϕ [75MM] PIN (6) REQ'D.
BU-407L #4 BENT BAR LEVEL II (DUAL COATED) USE 3" ϕ [75MM] PIN (6) REQ'D.
BU-408L #4 BENT BAR LEVEL II (DUAL COATED) USE 3" ϕ [75MM] PIN (6) REQ'D.
BU-409L #4 BENT BAR LEVEL II (DUAL COATED) USE 3" ϕ [50MM] PIN (4) REQ'D.
BU-410L #4 BENT BAR LEVEL II (DUAL COATED) USE 3" ϕ [50MM] PIN (6) REQ'D.



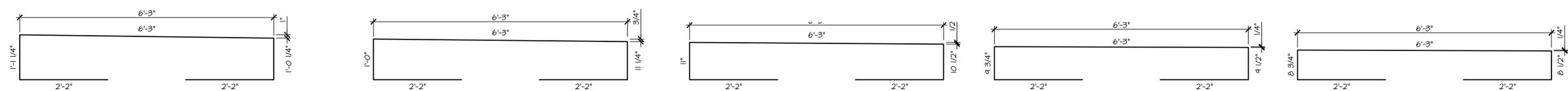
BU-501L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (64) REQ'D.
BU-502L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (88) REQ'D.
BU-503L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (120) REQ'D.
BU-504L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (31) REQ'D.



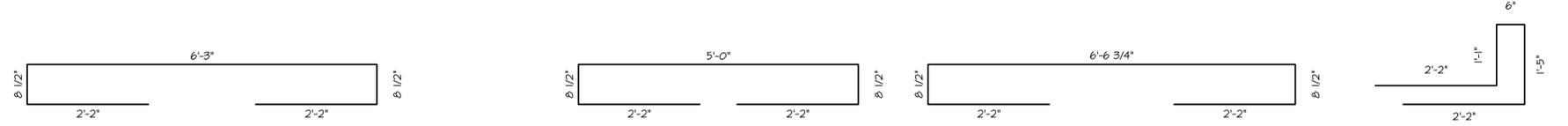
BU-505L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (1) REQ'D.
BU-506L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (4) REQ'D.
BU-507L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (1) REQ'D.



BU-508L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (1) REQ'D.
BU-509L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (1) REQ'D.
BU-510L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (11) REQ'D.
BU-511L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (1) REQ'D.
BU-512L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (1) REQ'D.



BU-513L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (1) REQ'D.
BU-514L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (1) REQ'D.
BU-515L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (1) REQ'D.
BU-516L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (1) REQ'D.
BU-517L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (1) REQ'D.

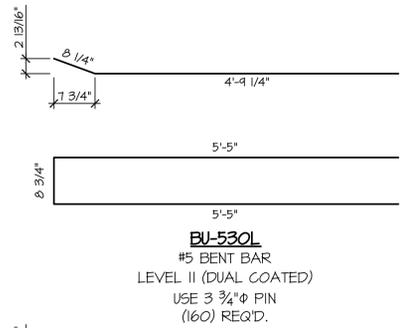


BU-518L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (8) REQ'D.
BU-519L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (2) REQ'D.
BU-520L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (5) REQ'D.
BU-521L #5 BENT BAR LEVEL II (DUAL COATED) USE 3 3/4" ϕ [95MM] PIN (78) REQ'D.

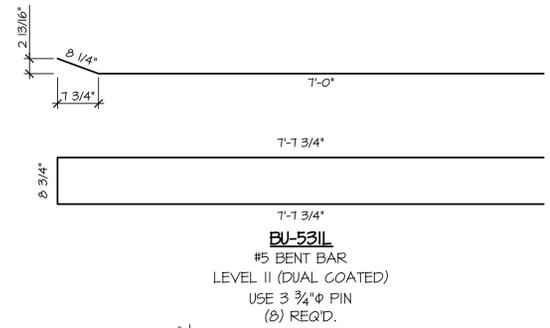
MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		2	#4 x 8'-2" (LEVEL II, DUAL COATED)	
2		10	#4 x 8'-4" (LEVEL II, DUAL COATED)	
3		3	#4 x 8'-5" (LEVEL II, DUAL COATED)	
4		5	#4 x 8'-6" (LEVEL II, DUAL COATED)	
5		40	#4 x 8'-7" (LEVEL II, DUAL COATED)	
6		2	#4 x 8'-8" (LEVEL II, DUAL COATED)	
7		8	#4 x 8'-11" (LEVEL II, DUAL COATED)	
8		2	#4 x 9'-0" (LEVEL II, DUAL COATED)	
9		4	#4 x 9'-2" (LEVEL II, DUAL COATED)	
10		4	#4 x 9'-3" (LEVEL II, DUAL COATED)	
11		50	#5 x 4'-8" (LEVEL II, DUAL COATED)	
12		42	#5 x 7'-3" (LEVEL II, DUAL COATED)	
13		6	#5 x 7'-5" (LEVEL II, DUAL COATED)	
14		60	#5 x 7'-10" (LEVEL II, DUAL COATED)	
15		46	#5 x 7'-11" (LEVEL II, DUAL COATED)	
16		28	#5 x 8'-0" (LEVEL II, DUAL COATED)	
17		364	#5 x 8'-1" (LEVEL II, DUAL COATED)	
18		14	#5 x 8'-2" (LEVEL II, DUAL COATED)	
19		18	#5 x 8'-3" (LEVEL II, DUAL COATED)	
20		32	#5 x 8'-4" (LEVEL II, DUAL COATED)	
21		12	#5 x 8'-5" (LEVEL II, DUAL COATED)	
22		42	#5 x 8'-6" (LEVEL II, DUAL COATED)	
23		134	#5 x 8'-7" (LEVEL II, DUAL COATED)	
24		64	#5 x 8'-8" (LEVEL II, DUAL COATED)	
25		16	#5 x 8'-11" (LEVEL II, DUAL COATED)	
26		2	#5 x 9'-0" (LEVEL II, DUAL COATED)	
27		8	#5 x 9'-2" (LEVEL II, DUAL COATED)	
28		8	#5 x 9'-3" (LEVEL II, DUAL COATED)	
29		48	#5 x 55'-5" (LEVEL II, DUAL COATED)	
30		48	#5 x 62'-5" (LEVEL II, DUAL COATED)	
31		16	SET OF (4) 0.60" ϕ x 270 KSI STRAND LIFTING LOOPS	
32		112	DAYTON B-16 COIL LOOP INSERTS, 3/4" COIL, SKL 3000	

PRESTRESSED NEXT BEAMS
 1" = 1'-0"

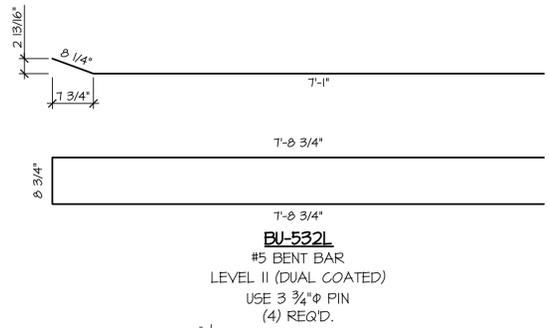
APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone: (802) 388-6361 Fax: (802) 388-9010		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		SCALE: NOTED	CHKD: DFTM: JDK
	MATERIALS LIST		JOB NO: 23454-015	DWG. NO: M1



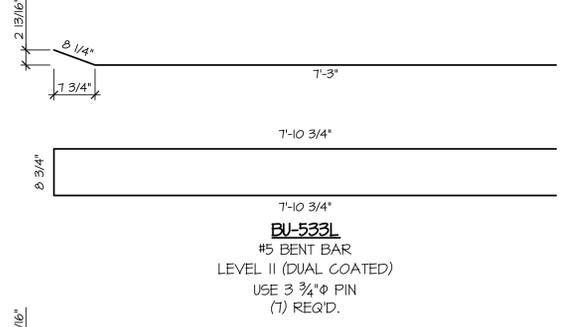
BU-530L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(160) REQ'D.



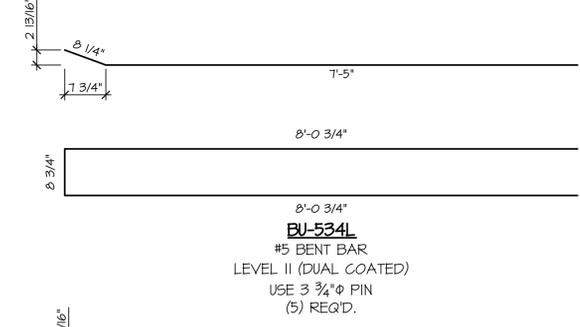
BU-531L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(8) REQ'D.



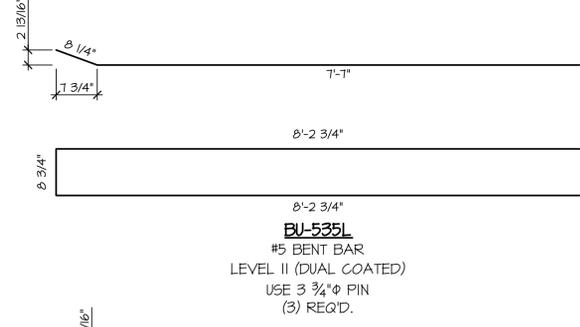
BU-532L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(4) REQ'D.



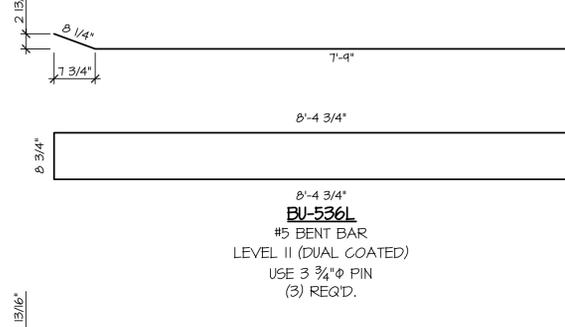
BU-533L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(7) REQ'D.



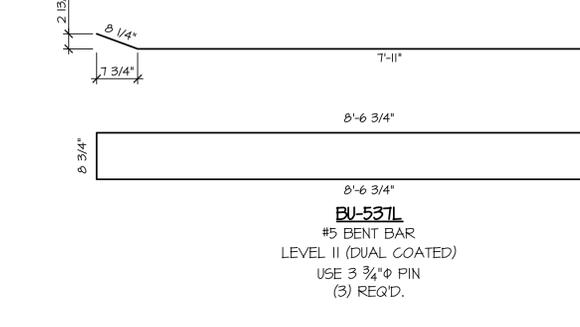
BU-534L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(5) REQ'D.



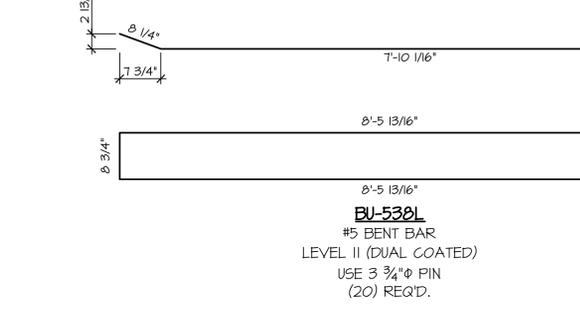
BU-535L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(3) REQ'D.



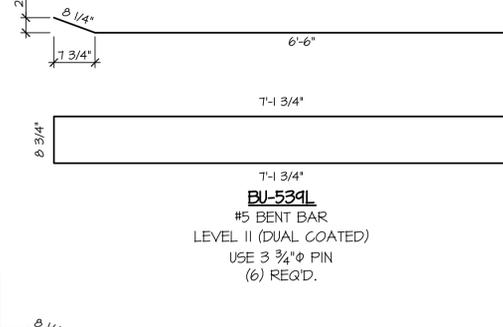
BU-536L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(3) REQ'D.



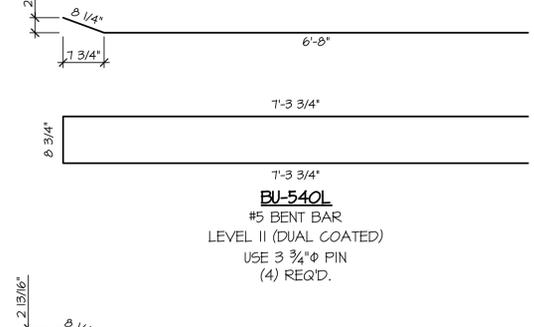
BU-537L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(3) REQ'D.



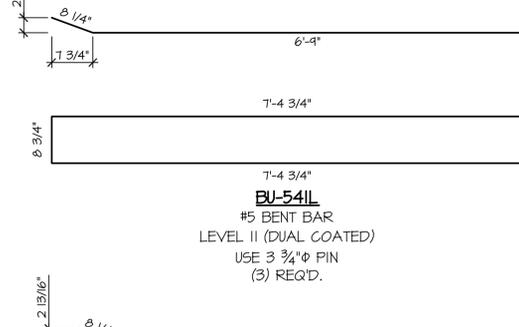
BU-538L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(20) REQ'D.



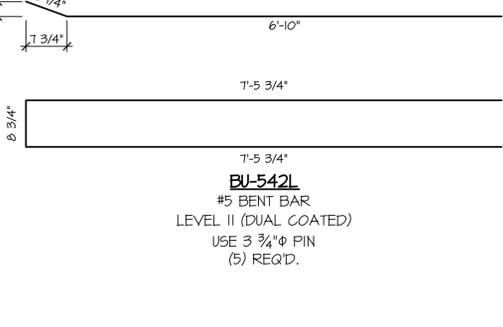
BU-539L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(6) REQ'D.



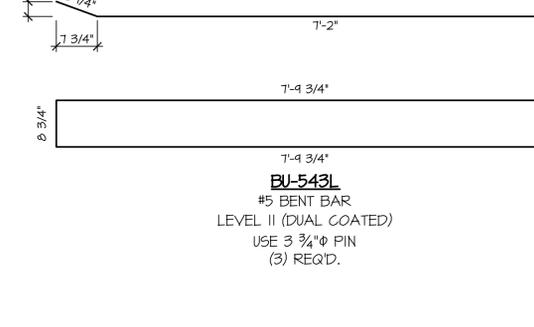
BU-540L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(4) REQ'D.



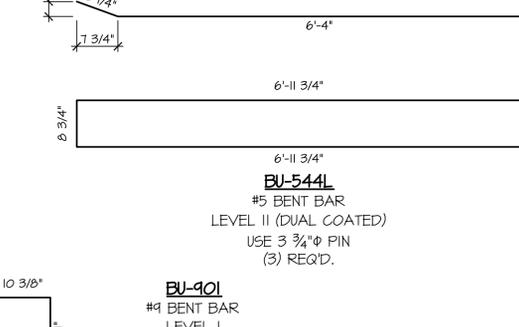
BU-541L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(3) REQ'D.



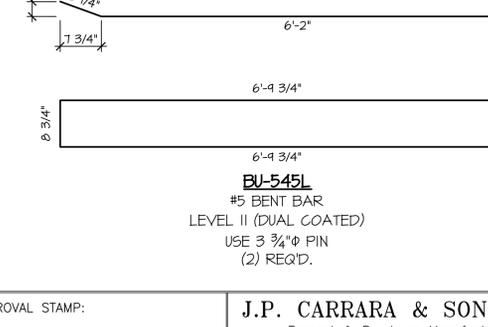
BU-542L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(5) REQ'D.



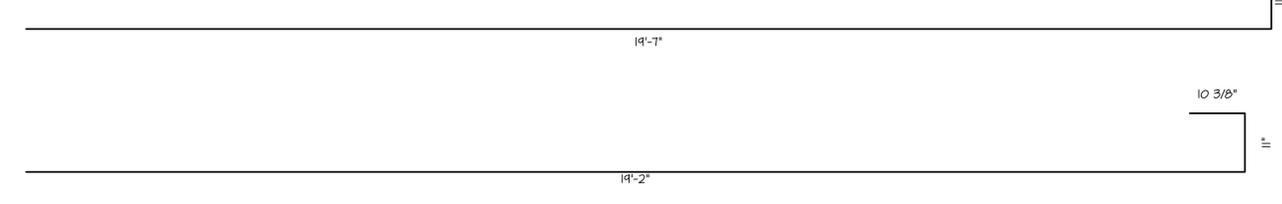
BU-543L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(3) REQ'D.



BU-544L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(3) REQ'D.



BU-545L
#5 BENT BAR
LEVEL II (DUAL COATED)
USE 3 3/4" Φ PIN
(2) REQ'D.



BU-901
#1 BENT BAR
LEVEL I
USE 6" Φ PIN
(74) REQ'D.

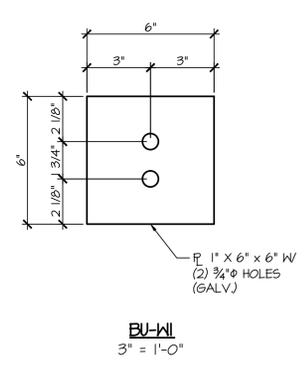
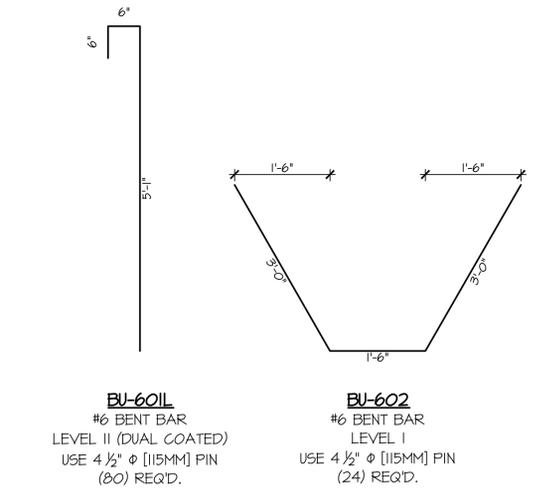
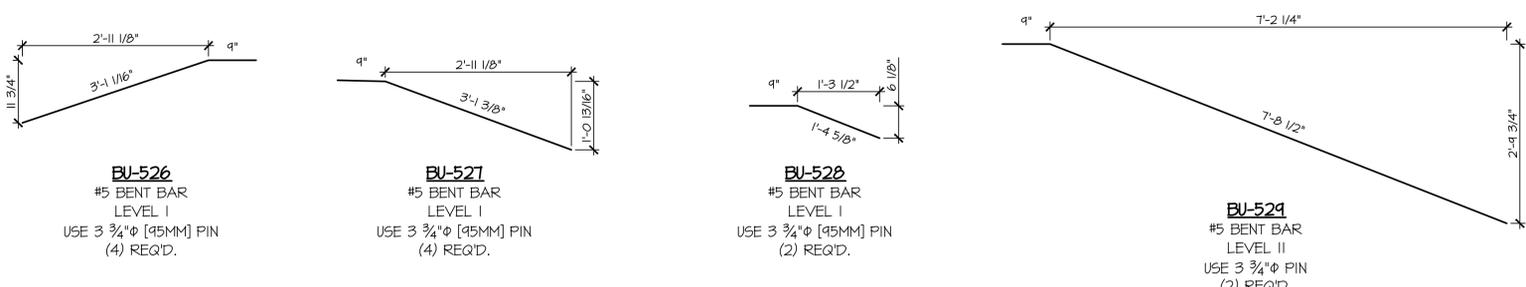
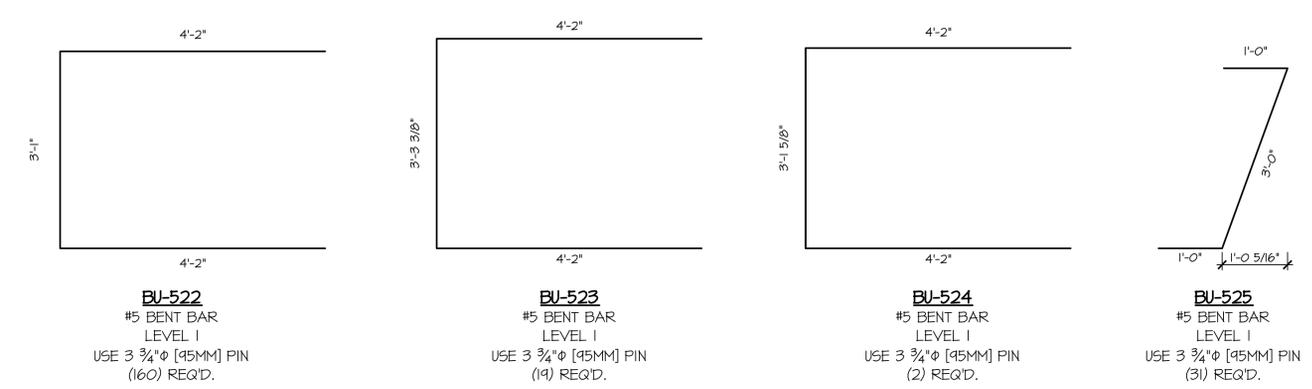
BU-902
#1 BENT BAR
LEVEL I
USE 6" Φ PIN
(2) REQ'D.

PRECAST APPROACH SLABS
1" = 1'-0"

MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY	DESCRIPTION	REMARKS
1		2	#6 x 16'-2" (LEVEL I)	
2		1	#6 x 16'-11"	
3		2	#6 x 19'-2" (LEVEL I)	
4		79	#6 x 19'-7" (LEVEL I)	
5		2	#9 x 16'-2" (LEVEL I)	
6		1	#9 x 16'-11" (LEVEL I)	
7		2	#9 x 19'-2" (LEVEL I)	
8	MK-W2	32	4T x 7 1/8" SKIFFT LIFT LIFTER	

PRECAST APPROACH SLABS

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CASE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	SCALE: NOTED
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		CHKD: DFTM: JDK	JOB NO: 23454-015
MATERIALS LIST			DWG. NO: M2	



PRECAST ABUTMENTS
1" = 1'-0"

MISCELLANEOUS MATERIALS				
ITEM	MARK	QTY.	DESCRIPTION	REMARKS
1		2	#5 x 2'-2" (LEVEL I)	
2		58	#5 x 3'-6" (LEVEL II, DUAL COATED)	
3		61	#5 x 4'-2" (LEVEL II, DUAL COATED)	
4		10	#5 x 3'-4" (LEVEL I)	
5		2	#5 x 6'-4" (LEVEL I)	
6		16	#6 x 2'-4" (LEVEL I)	
7		4	#6 x 3'-6" (LEVEL I)	
8		38	#6 x 3'-8" (LEVEL I)	
9		32	#6 x 4'-11" (LEVEL I)	
10		8	#6 x 4'-0" (LEVEL I)	
11		25	#6 x 4'-4" (LEVEL I)	
12		32	#6 x 4'-7" (LEVEL I)	
13		5	#6 x 4'-4" (LEVEL I)	
14		4	#6 x 4'-11" (LEVEL I)	
15		4	#6 x 5'-0" (LEVEL I)	
16		17	#6 x 5'-2" (LEVEL I)	
17		32	#6 x 5'-3" (LEVEL I)	
18		4	#6 x 5'-4" (LEVEL I)	
19		4	#6 x 5'-5" (LEVEL I)	
20		4	#6 x 5'-7" (LEVEL I)	
21		4	#6 x 5'-8" (LEVEL I)	
22		4	#6 x 5'-11" (LEVEL I)	
23		4	#6 x 6'-2" (LEVEL I)	
24		7	#6 x 6'-11" (LEVEL I)	
25		10	#6 x 7'-1" (LEVEL I)	
26		1	#6 x 7'-2" (LEVEL I)	
27		10	#6 x 7'-6" (LEVEL I)	
28		2	#6 x 7'-7" (LEVEL I)	
29		1	#6 x 8'-0" (LEVEL I)	
30		14	#6 x 22'-7" (LEVEL I)	
31		8	#6 x 23'-2" (LEVEL I)	
32		7	#6 x 23'-3" (LEVEL I)	
33		14	#6 x 23'-8" (LEVEL I)	
34		8	#6 x 24'-3" (LEVEL I)	
35		7	#6 x 24'-4" (LEVEL II, DUAL COATED)	
36		1	2'-0" x 5'-2 1/2" CORR. STL PIPE (GALV)	
37		1	2'-0" x 5'-4" CORR. STL PIPE (GALV)	
38		1	2'-0" x 5'-4 5/8" CORR. STL PIPE (GALV)	
39		1	2'-0" x 5'-6 7/8" CORR. STL PIPE (GALV)	
40		1	2'-0" x 5'-7" CORR. STL PIPE (GALV)	
41		1	2'-0" x 5'-9 1/4" CORR. STL PIPE (GALV)	
42		1	2'-0" x 5'-9 7/8" CORR. STL PIPE (GALV)	
43		1	2'-0" x 5'-11 5/8" CORR. STL PIPE (GALV)	
44		1	2'-0" x 6'-0 3/4" CORR. STL PIPE (GALV)	
45		1	2'-0" x 6'-3 5/8" CORR. STL PIPE (GALV)	
46		1	2'-0" x 6'-6 1/2" CORR. STL PIPE (GALV)	
47		1	2'-0" x 7'-1 3/4" CORR. STL PIPE (GALV)	
48		8	SET OF (4) 0.60" x 270 KSI STRAND LIFTING LOOPS	
49	BU-WI	24	PL 1" x 6" x 6" W/ (2) 3/4" HOLES (GALV)	FOR ERECTION
50		24	1/2" x 50' POLY-STRAND	FOR ERECTION
51		48	1/2" SINGLE USE STRESSING CHUCK	FOR ERECTION
52		12	COMPRESSIBLE SEALER SELF ADHESIVE	FOR ERECTION

PRECAST ABUTMENTS

APPROVAL STAMP:	J.P. CARRARA & SONS INC. Precast & Prestress Manufacturer 2464 CAGE STR., MIDDLEBURY, VERMONT 05753 Phone:(802)388-6361 Fax:(802)388-9010		T. BUCK CONSTRUCTION, INC. CONTRACTOR AUBURN, MAINE	
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF CALEDONIA		DATE: MAR. 24, 2015	
	TOWN OF BURKE VERMONT ROUTE 114 BRIDGE NO.: 13 PROJECT NO.: BRF 0269(13)		SCALE: NOTED	CHKD: DFTM: JDK
	MATERIALS LIST		JOB NO: 23454-015	DWG. NO: M3