JOSEPH P. CARRARA & SONS, INC.

LETTER OF TRANSMITTAL

2464 CASE STREET
MIDDLEBURY, VERMONT 05753

TEL (802) 388-6363
FAX (802) 388-9010

DATE : December 12, 2013	JOB NO. : 23411-013
ATTENTION : Mr. Brian Emmons *bemmons@tbuckcon.net*	
RE : Sand Hill Bridge No. 13	
VT 125 over Middlebury River	
Middlebury, VT	
Project No. RS 0174 (8)	
Transmittal #3	Precast Concrete

TO: **T. Buck Construction**
249 Merrow Road
Auburn, Maine 04210

207-783-6223 x205

WE ARE SENDING YOU [x] Attached [ ] Under separate cover via **Email** the following items:

[x] Shop Drawings [ ] Prints [ ] Plans [ ] Samples [ ] Specifications

[ ] Copy of Letter [ ] Change Order [ ] Other:

COPIES	DATE	NO.	DESCRIPTION
1	12/12/13	-	**J. P. Carrara & Sons' Precast Framing and Individual Piece Detail Drawings for Approach Slabs**
			"For Approval" Drawings: AS1, AS2, AS3, AS4, AS5, & AS6
			"For Coordination" Drawings: F9
1	12/11/13	-	**J. P. Carrara & Sons' 445MSCC Concrete Mix Design**

THESE ARE TRANSMITTED as checked below :

[x] For approval [ ] Approved as submitted [ ] Resubmit ____ copies for approval

[ ] For your use [ ] Approved as noted [ ] Submit ____ copies for distribution

[ ] As requested [ ] Returned for corrections [ ] Return ____ corrected prints

[ ] For review and comment [ ] ____

[ ] FOR BIDS DUE ____ 20 ____ [ ] PRINTS RETURNED AFTER LOAN TO US

REMARKS **Brian,**

Attached please find our framing drawings and individual piece details for the precast approach slabs which are submitted for approval. As previously discussed, drawing submittals are phased and subsequent submittals will be forthcoming. Please note the following:

1. Although NEXT Beams are not submitted at this time, the layout of projecting #8 reinforcement from the precast curtain walls is coordinated with the sleeve layout in the precast approach slabs.

2. Please note and confirm the shear key geometry between adjacent approach slabs which is reduced in height to nest within the #5 projecting hairpin bars.

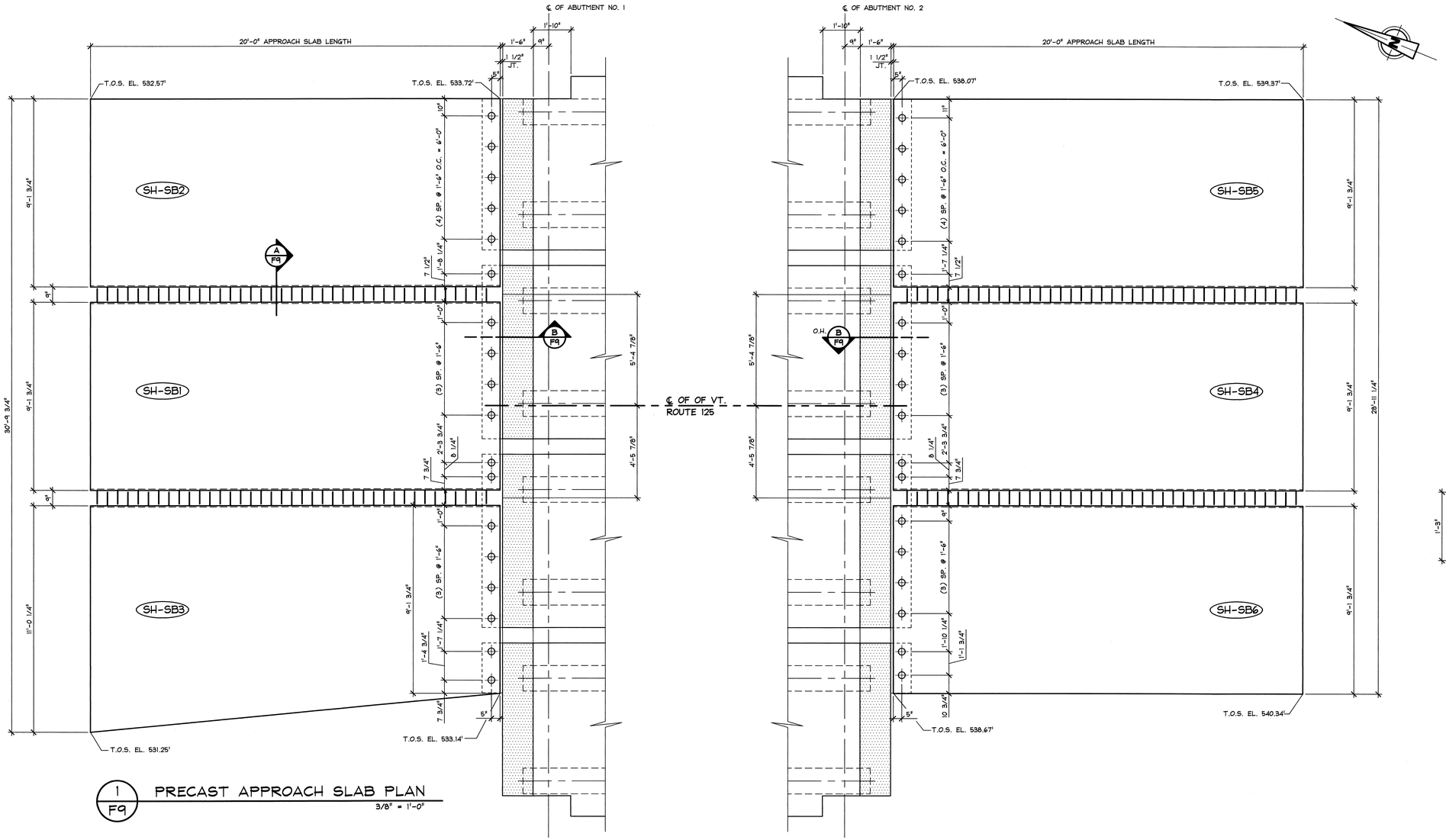
3. Concrete mix design 445MSCC is also submitted for approval at this time. Our production engineer submitted a copy directly to Mr. Jim Wild at VT AOT on 12/11/13 as per protocol for approval of new mix designs for VT AOT.

Please contact us at 802-388-6363 with any questions.

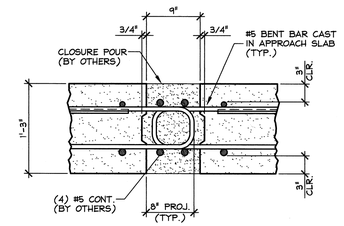
COPY TO :

SIGNED : Michael Weigand

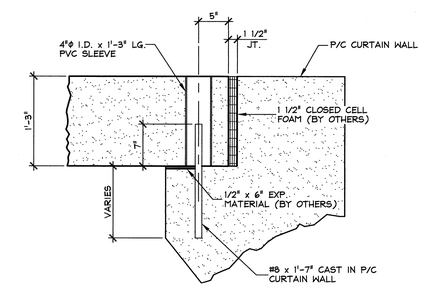
If enclosures are not as noted, please notify us at once.



1 / F9 PRECAST APPROACH SLAB PLAN
3/8" = 1'-0"



A / F9 CLOSURE POUR
1" = 1'-0"

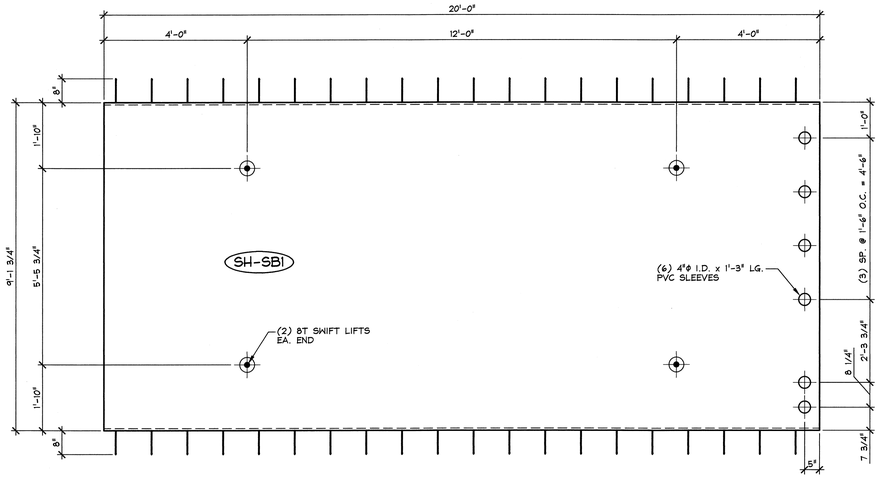


B / F9 BEARING SECTION
1" = 1'-0"

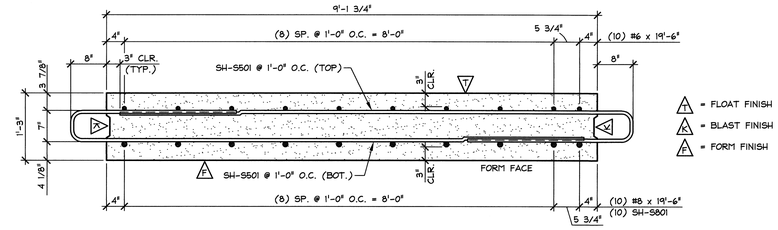
SUBMITTED
DEC 12 2013
J. P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

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 CONTRACTOR AUBURN, MAINE
	STATE OF VERMONT AGENCY OF TRANSPORTATION COUNTY OF ADDISON	DATE: OCT. 9, 2013 SCALE: NOTED
	TOWN OF MIDDLEBURY ROUTE NO. VT 125, EAST MIDDLEBURY GORGE BRIDGE NO.: PROJECT NO.: RS 0174(8)	CHKD: DFTM: T.D. JOB NO:
	APPROACH SLAB LAYOUT	DWG. NO: F9

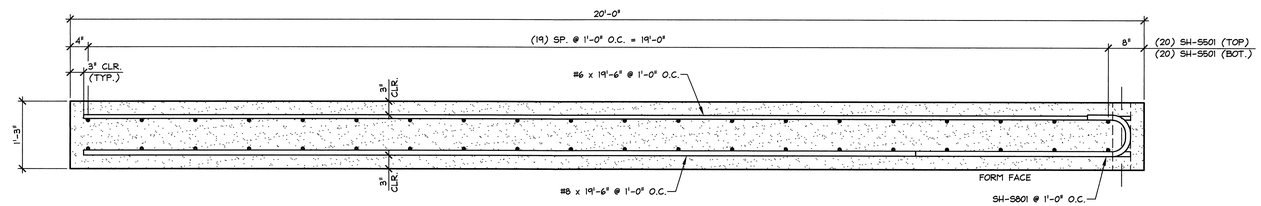
F:\VT-Bridges\East Middlebury Gorge\23411-013 F9.dwg, 12/12/2013 11:12:08 AM



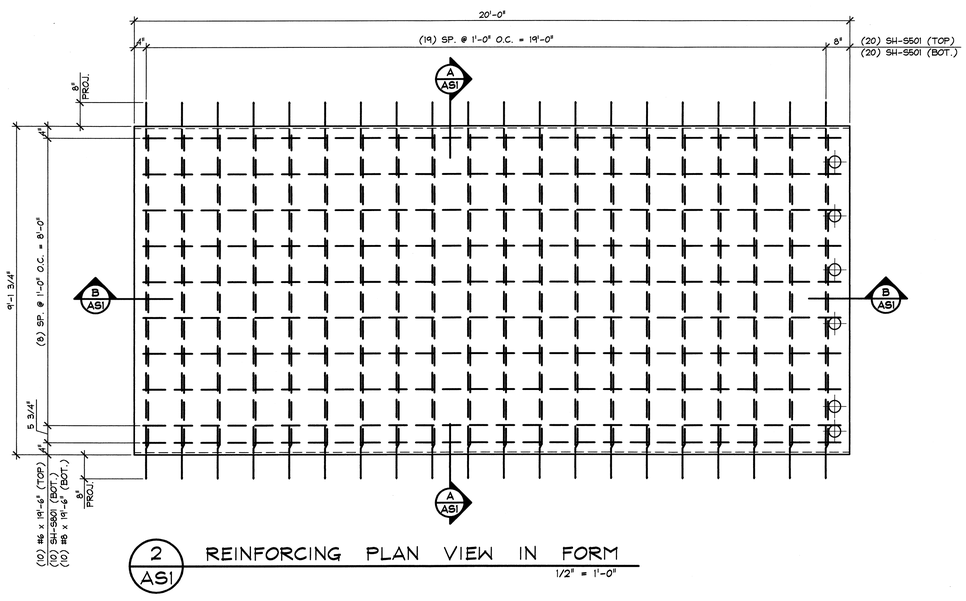
1 ASI PLAN VIEW IN FORM
1/2" = 1'-0"



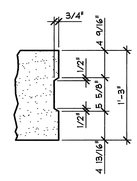
A ASI REINFORCING SECTION
3/4" = 1'-0"



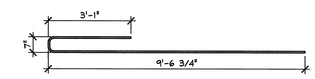
B ASI REINFORCING SECTION
3/4" = 1'-0"



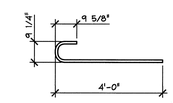
2 ASI REINFORCING PLAN VIEW IN FORM
1/2" = 1'-0"



KEYWAY DETAIL
1" = 1'-0"



SH-501



SH-801

3500 PSI @ RELEASE
5000 PSI @ 28 DAYS

MIX DESIGN: 445M5CC

MARK: SH-SB1	QTY.: 1	WT.: 17.08 T	VOL.: 8.43 cy

MATERIAL LIST / ARCH PANEL

ITEM	MARK	DESCRIPTION	QTY.
1		#6 x 19'-6" BLACK	10
2		#8 x 19'-6" BLACK	10
3			
4			
5	SH-S501	#5 BENT BAR BLACK	40
6	SH-S801	#8 BENT BAR BLACK	10
7			
8			
9			
10		DAYTON 8T x 10" SWIFT LIFT ANCHORS (WITH RECESS PLUG)	4
11			
12		4"ϕ I.D. x 1'-3" LG. PVC SLEEVE	6
13			
14			
15			

SUBMITTED
DEC 12 2013
J. P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

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
CONTRACTOR
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF ADDISON

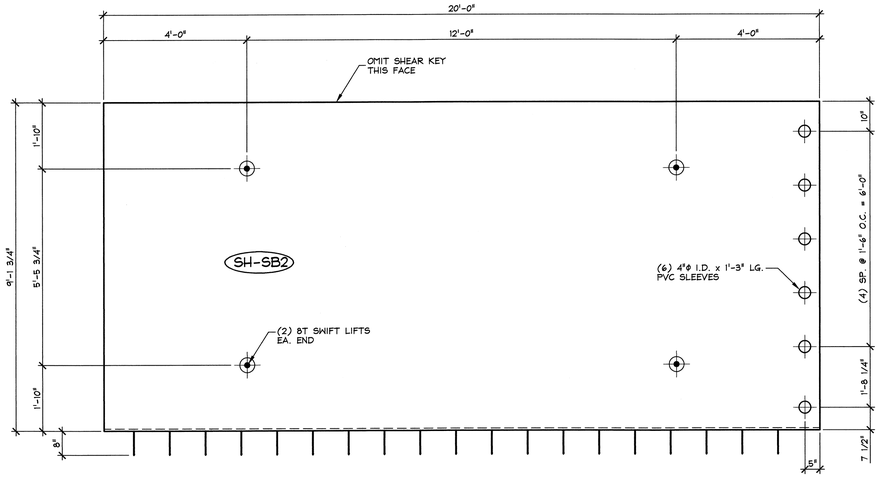
DATE: OCT. 9, 2013
SCALE: NOTED
CHKD: DFTM: T.D.
JOB NO:

TOWN OF MIDDLEBURY
ROUTE NO. VT 125, EAST MIDDLEBURY GORGE
BRIDGE NO.: PROJECT NO.: RS 0174(8)

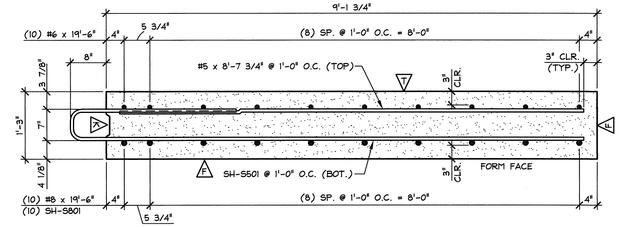
APPROACH SLAB DETAILS

DWG. NO: AS1

F:\VT-Bridges\East Middlebury Gorge\23411-013 AS1.dwg, 12/12/2013 11:17:51 AM

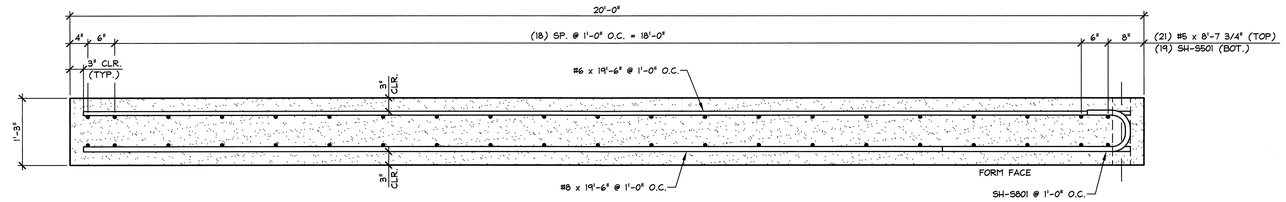


1 AS2 PLAN VIEW IN FORM
1/2" = 1'-0"

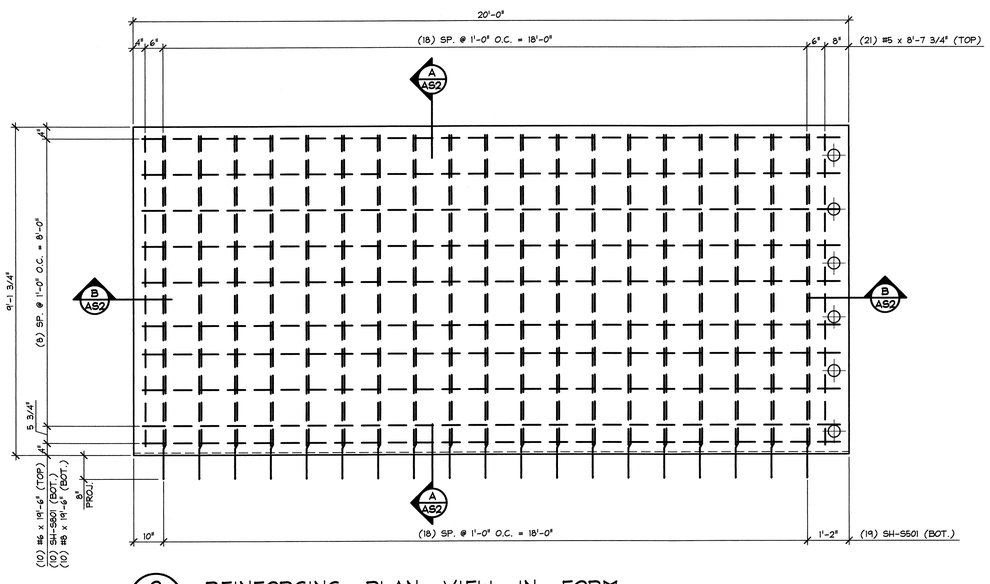


A = FLOAT FINISH
B = BLAST FINISH
F = FORM FINISH

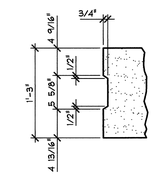
A AS2 REINFORCING SECTION
3/4" = 1'-0"



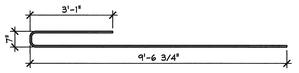
B AS2 REINFORCING SECTION
3/4" = 1'-0"



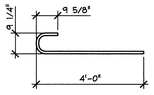
2 AS2 REINFORCING PLAN VIEW IN FORM
1/2" = 1'-0"



KEYWAY DETAIL
1" = 1'-0"



SH-501



SH-801

3500 PSI @ RELEASE
5000 PSI @ 28 DAYS

MIX DESIGN: 445MSCC

MARK: SH-SB2	QTY.: 1	WT.: 17.08 T	VOL.: 8.43 cy

MATERIAL LIST / ARCH PANEL

ITEM	MARK	DESCRIPTION	QTY.
1		#6 x 19'-6" BLACK	10
2		#8 x 19'-6" BLACK	10
3		#5 x 8'-7 3/4" BLACK	21
4			
5	SH-S501	#5 BENT BAR BLACK	19
6	SH-S801	#8 BENT BAR BLACK	10
7			
8			
9			
10		DAYTON 8T x 10" SWIFT LIFT ANCHORS (WITH RECESS PLUG)	4
11			
12		4"ø I.D. x 1'-3" LG. PVC SLEEVE	6
13			
14			
15			

SUBMITTED
DEC 12 2013
J. P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

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Precast & Prestress Manufacturer
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T. BUCK CONSTRUCTION
CONTRACTOR
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF ADDISON

DATE: OCT. 9, 2013
SCALE: NOTED

TOWN OF MIDDLEBURY
ROUTE NO. VT 125, EAST MIDDLEBURY GORGE
BRIDGE NO.: PROJECT NO.: RS 0174(8)

CHKD: DFTM: T.D.
JOB NO:

APPROACH SLAB DETAILS

DWG. NO: AS2

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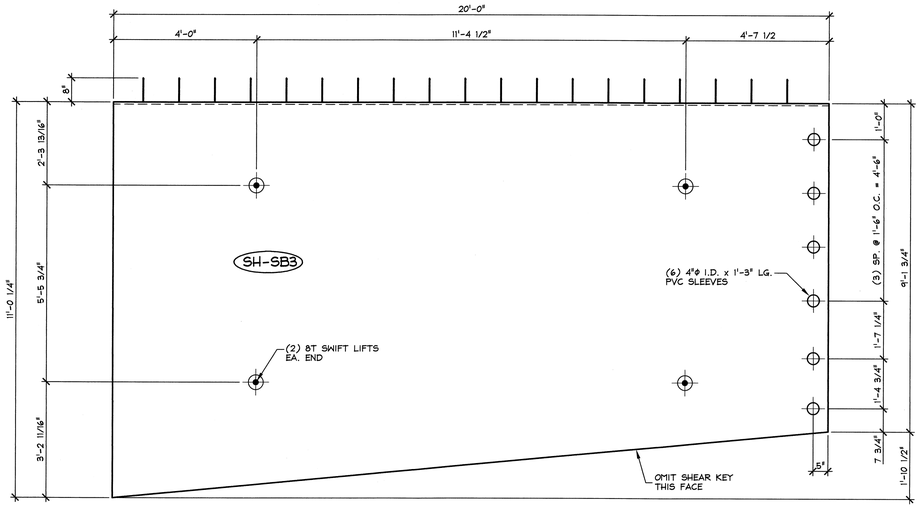
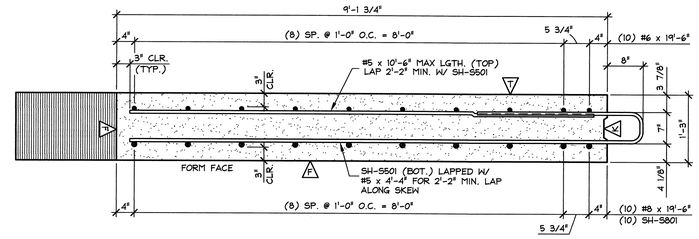
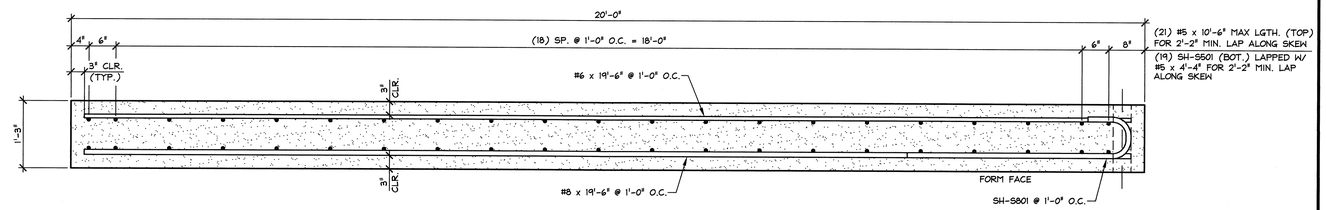


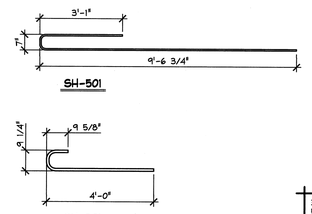
1 / AS3 PLAN VIEW IN FORM
1/2" = 1'-0"

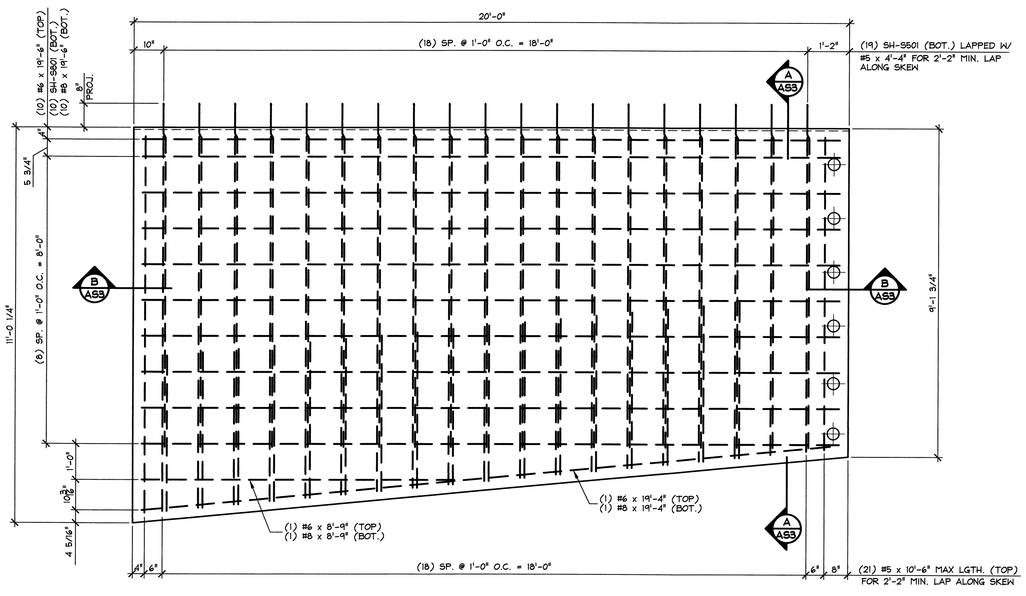


A / AS3 REINFORCING SECTION
3/4" = 1'-0"

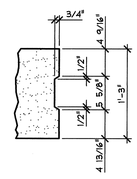


B / AS3 REINFORCING SECTION
3/4" = 1'-0"





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



KEYWAY DETAIL
1" = 1'-0"

3500 PSI @ RELEASE
5000 PSI @ 28 DAYS

MIX DESIGN: 445MSCC

MARK: SH-SB3	QTY.: 1	WT.: 18.91 T	VOL.: 9.33 cy

MATERIAL LIST / ARCH PANEL

ITEM	MARK	DESCRIPTION	QTY.
1		#8 x 19'-6" BLACK	10
2		#8 x 19'-4" BLACK	1
3		#8 x 8'-9" BLACK	1
4		#6 x 19'-6" BLACK	10
5		#6 x 19'-4" BLACK	1
6		#6 x 8'-9" BLACK	1
7		#5 x 10'-6" BLACK	21
8		#5 x 4'-4" BLACK	17
9			
10	SH-S501	#5 BENT BAR BLACK	19
11	SH-S801	#8 BENT BAR BLACK	10
12			
13		DAYTON 8T x 10" SWIFT LIFT ANCHORS (WITH RECESS PLUG)	4
14		4"ϕ I.D. x 1'-3" LG. PVC SLEEVE	6
15			

SUBMITTED
DEC 12 2013
J. P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

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
CONTRACTOR
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF ADDISON

DATE: OCT. 9, 2013
SCALE: NOTED

TOWN OF MIDDLEBURY
ROUTE NO. VT 125, EAST MIDDLEBURY GORGE
BRIDGE NO.: PROJECT NO.: RS 0174(8)

CHKD: DFTM: T.D.
JOB NO:

APPROACH SLAB DETAILS

DWG. NO: AS3

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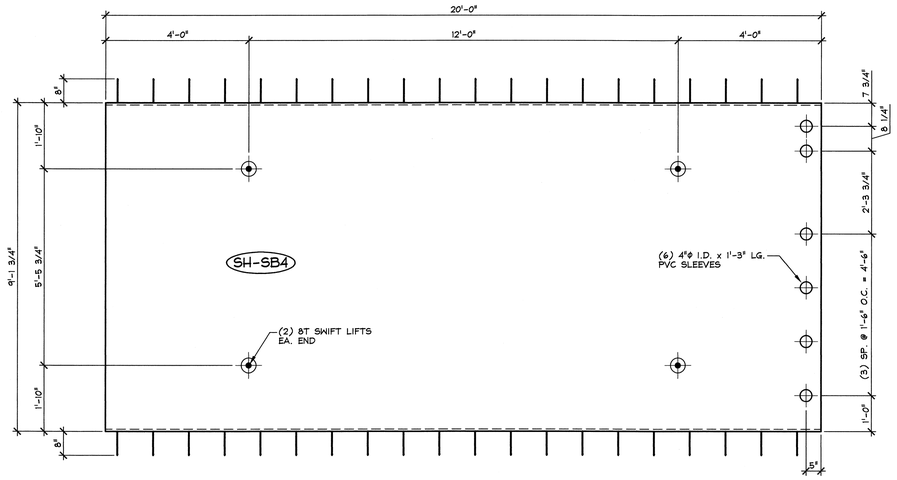
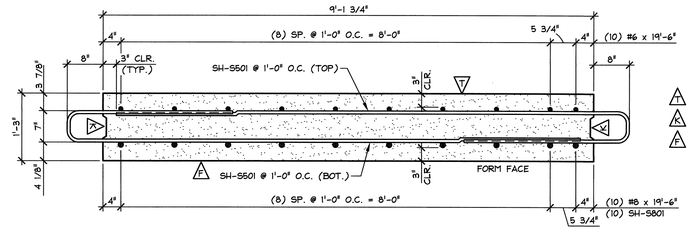
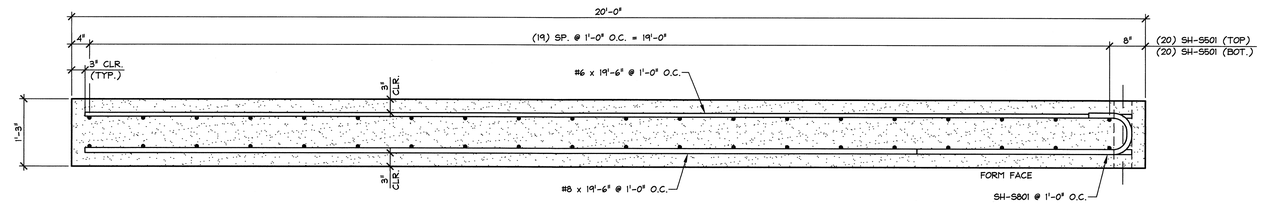


1 AS4 PLAN VIEW IN FORM
1/2" = 1'-0"



A AS4 REINFORCING SECTION
3/4" = 1'-0"



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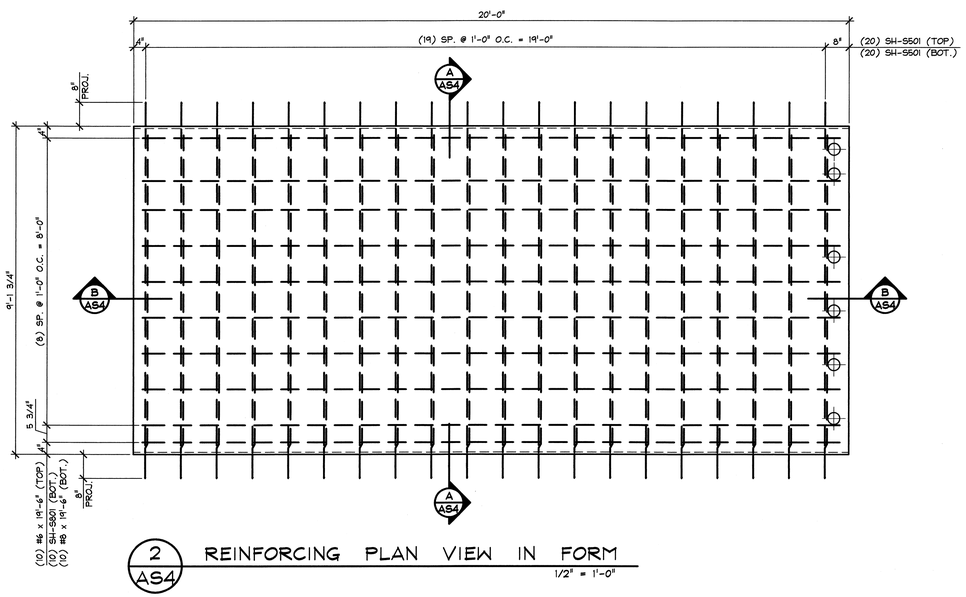
3/4" = 1'-0"



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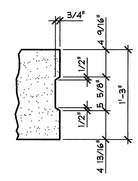
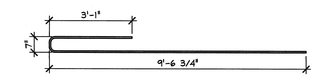
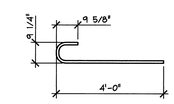
1/2" = 1'-0"



KEYWAY DETAIL
1" = 1'-0"



SH-501



SH-801

3500 PSI @ RELEASE
5000 PSI @ 28 DAYS

MIX DESIGN: 445MSCC

MARK: SH-SB4	QTY.: 1	WT.: 17.08 T	VOL.: 8.43 cy

MATERIAL LIST / ARCH PANEL

ITEM	MARK	DESCRIPTION	QTY.
1		#6 x 19'-6" BLACK	10
2		#8 x 19'-6" BLACK	10
3			
4			
5	SH-S501	#5 BENT BAR BLACK	40
6	SH-S801	#8 BENT BAR BLACK	10
7			
8			
9			
10		DAYTON 8T x 10" SWIFT LIFT ANCHORS (WITH RECESS PLUG)	4
11			
12		4"Φ I.D. x 1'-3" LG. PVC SLEEVE	6
13			
14			
15			

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MIDDLEBURY, VT 05753

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
CONTRACTOR
AUBURN, MAINE

STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF ADDISON

DATE: OCT. 9, 2013
SCALE: NOTED

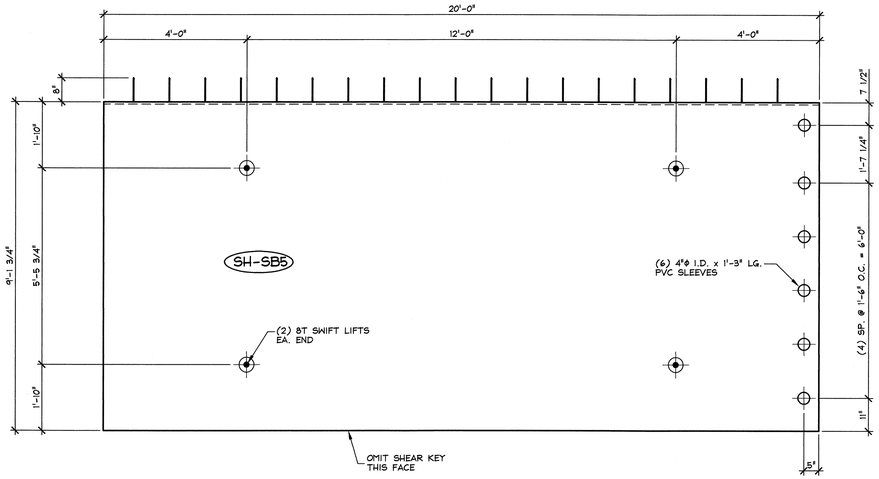
TOWN OF MIDDLEBURY
ROUTE NO. VT 125, EAST MIDDLEBURY GORGE
BRIDGE NO.: PROJECT NO.: RS 0174(8)

CHKD: DFTM: T.D.
JOB NO:

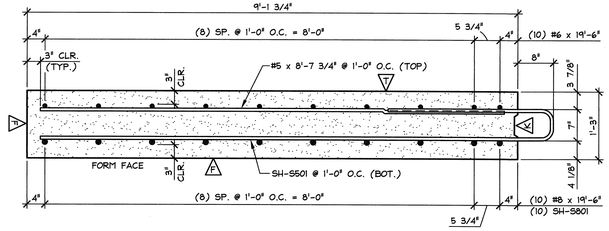
APPROACH SLAB DETAILS

DWG. NO: AS4

F:\VT-Bridges\East Middlebury Gorge\23411-013 AS4.dwg, 12/12/2013 11:39:40 AM

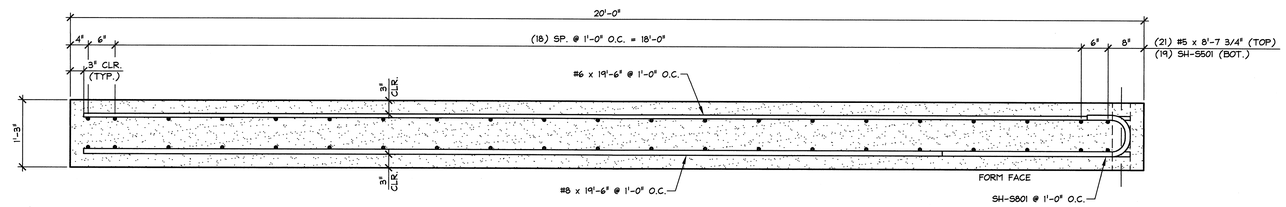


1 AS5 PLAN VIEW IN FORM
1/2" = 1'-0"

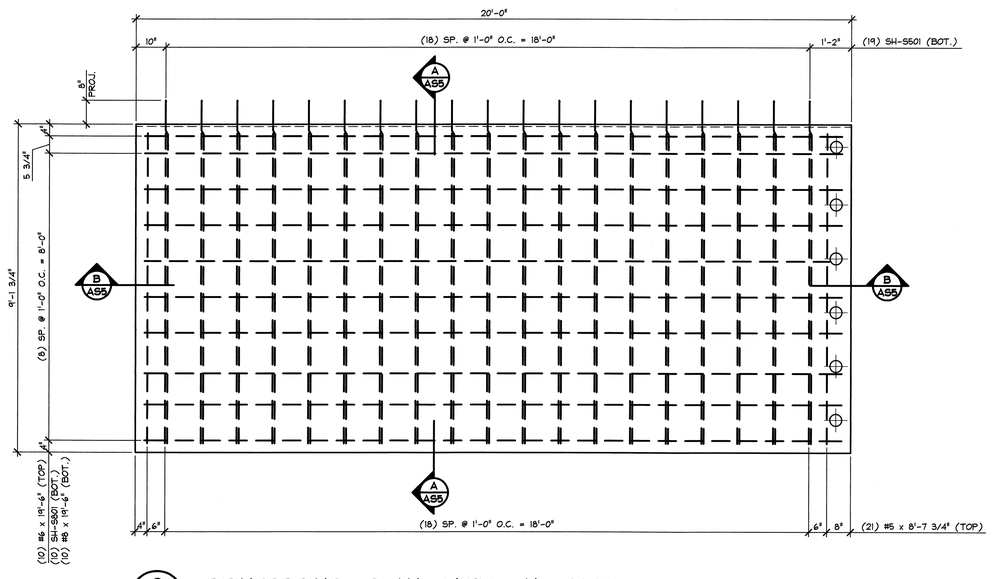


A = FLOAT FINISH
B = BLAST FINISH
F = FORM FINISH

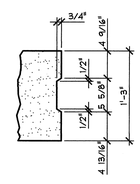
A AS5 REINFORCING SECTION
3/4" = 1'-0"



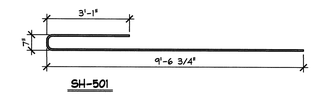
B AS5 REINFORCING SECTION
3/4" = 1'-0"



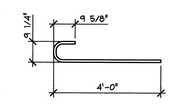
2 AS5 REINFORCING PLAN VIEW IN FORM
1/2" = 1'-0"



KEYWAY DETAIL
1" = 1'-0"



SH-501



SH-801

3500 PSI @ RELEASE
5000 PSI @ 28 DAYS

MIX DESIGN: 445MSCC

MARK: SH-SB5	QTY.: 1	WT.: 17.08 T	VOL.: 8.43 cy

MATERIAL LIST / ARCH PANEL

ITEM	MARK	DESCRIPTION	QTY.
1		#6 x 19'-6" BLACK	10
2		#8 x 19'-6" BLACK	10
3		#5 x 8'-7 3/4" BLACK	21
4			
5	SH-5501	#5 BENT BAR BLACK	19
6	SH-5801	#8 BENT BAR BLACK	10
7			
8			
9			
10		DAYTON BT x 10" SWIFT LIFT ANCHORS (WITH RECESS PLUG)	4
11			
12		4"ϕ I.D. x 1'-3" LG. PVC SLEEVE	6
13			
14			
15			

SUBMITTED
DEC 12 2013
J. P. CARRARA & SONS, INC.
MIDDLEBURY, VT 05753

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
CONTRACTOR
AUBURN, MAINE

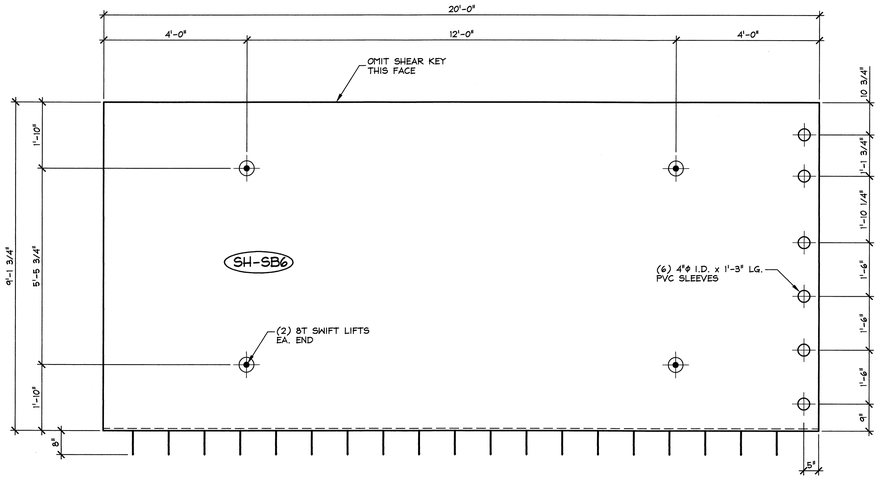
STATE OF VERMONT AGENCY OF TRANSPORTATION
COUNTY OF ADDISON

TOWN OF MIDDLEBURY
ROUTE NO. VT 125, EAST MIDDLEBURY GORGE
BRIDGE NO.: PROJECT NO.: RS 0174(8)

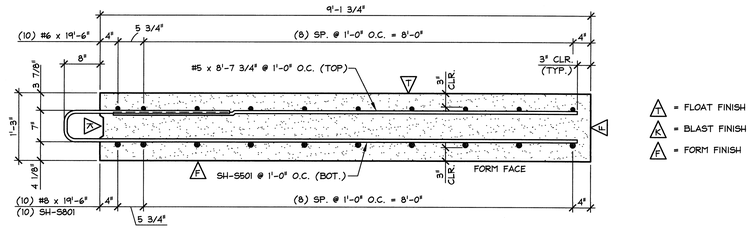
APPROACH SLAB DETAILS

DATE: OCT. 9, 2013
SCALE: NOTED
CHKD: DFTM: T.D.
JOB NO:
DWG. NO: AS5

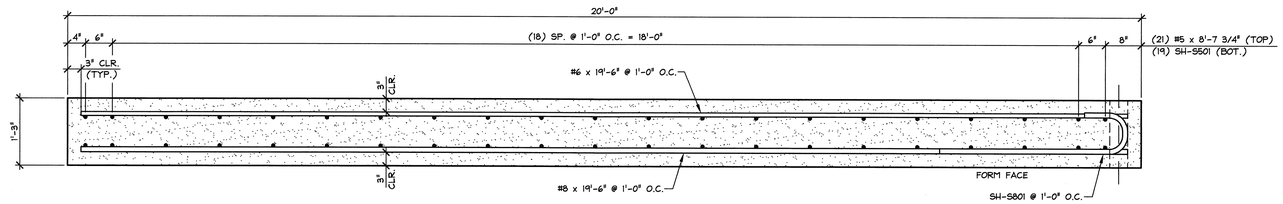
F:\VT-Bridges\East Middlebury Gorge\23411-013 AS5.dwg, 12/12/2013 11:44:01 AM



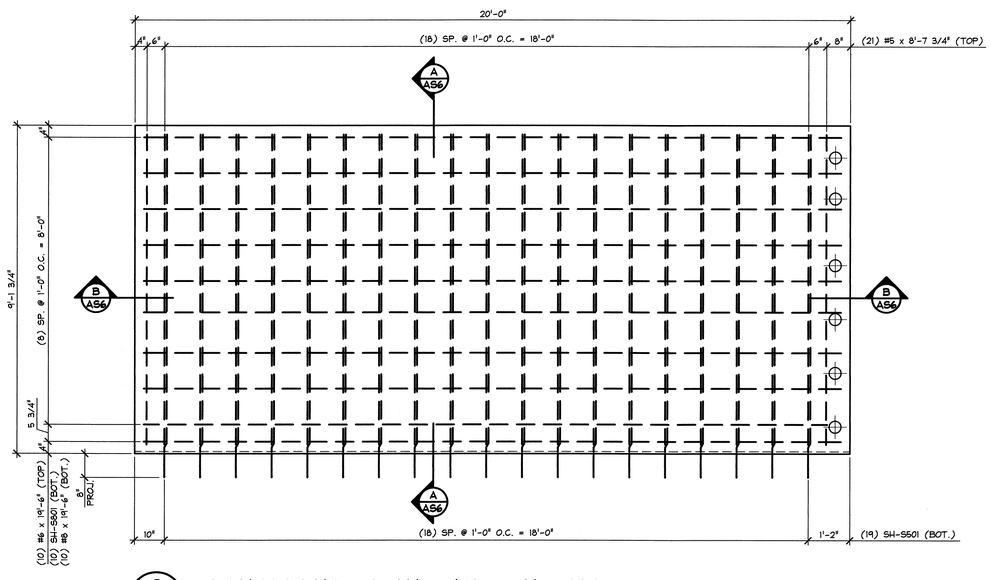
1 AS6 PLAN VIEW IN FORM
1/2" = 1'-0"



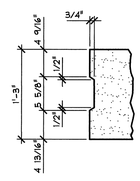
A AS6 REINFORCING SECTION
3/4" = 1'-0"



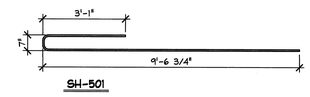
B AS6 REINFORCING SECTION
3/4" = 1'-0"



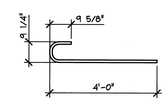
2 AS6 REINFORCING PLAN VIEW IN FORM
1/2" = 1'-0"



KEYWAY DETAIL
1" = 1'-0"



SH-501



SH-801

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MIX DESIGN: 445MSCC

MARK: SH-SB6	QTY.: 1	WT.: 17.08 T	VOL.: 8.43 cy

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4			
5	SH-S501	#5 BENT BAR BLACK	19
6	SH-S801	#8 BENT BAR BLACK	10
7			
8			
9			
10		DAYTON 8T x 10" SWIFT LIFT ANCHORS (WITH RECESS PLUG)	4
11			
12		4"Φ I.D. x 1'-3" LG. PVC SLEEVE	6
13			
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TOWN OF MIDDLEBURY
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BRIDGE NO.: PROJECT NO.: RS 0174(8)

APPROACH SLAB DETAILS

DWG. NO: AS6

F:\VT-Bridges\East Middlebury Gorge\23411-013 AS6.dwg, 12/12/2013 11:49:31 AM