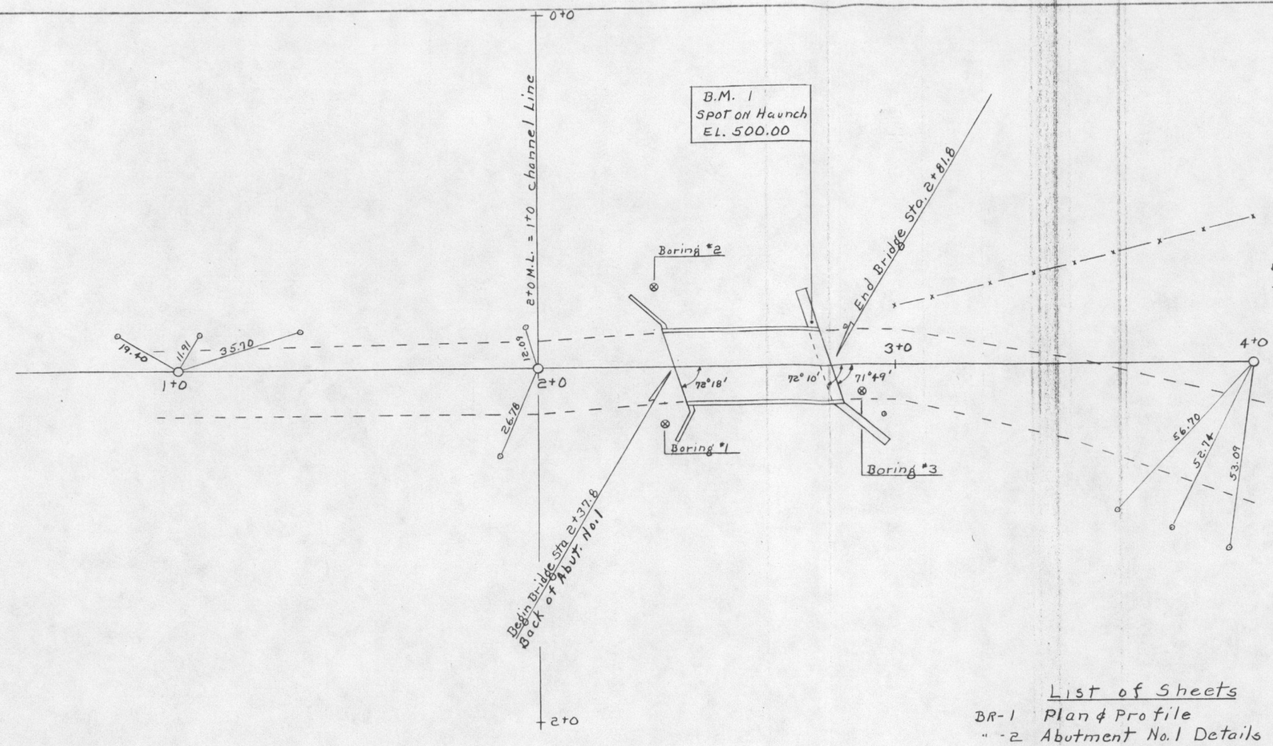
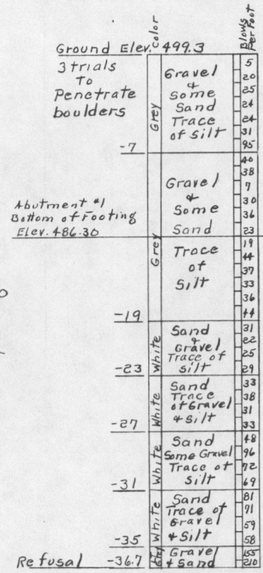
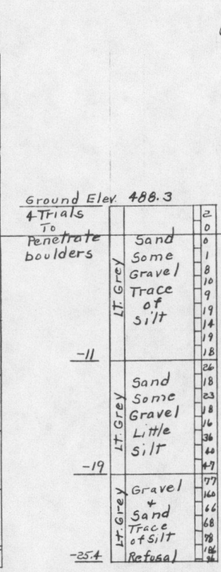
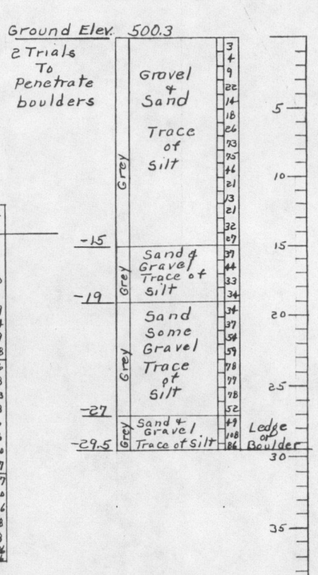


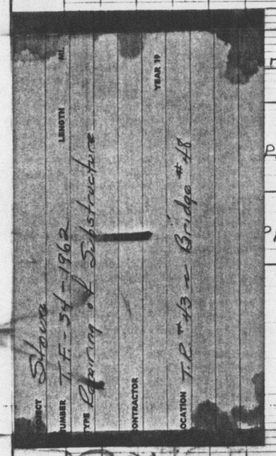






Note: All material and construction shall conform to State of Vermont Standard Specifications for Highway and Bridge Construction dated 1956 and current modifications.

List of Sheets



Approved: 10/26/62
R F Ingalls
District Engineer

Correct: 10/29/62
Lyn Bjorn
Bridge Engineer

Approved: 10/29/62
A O Bickford
Chief Engineer

Approved
R H Gould
Asst. Chief Engineer

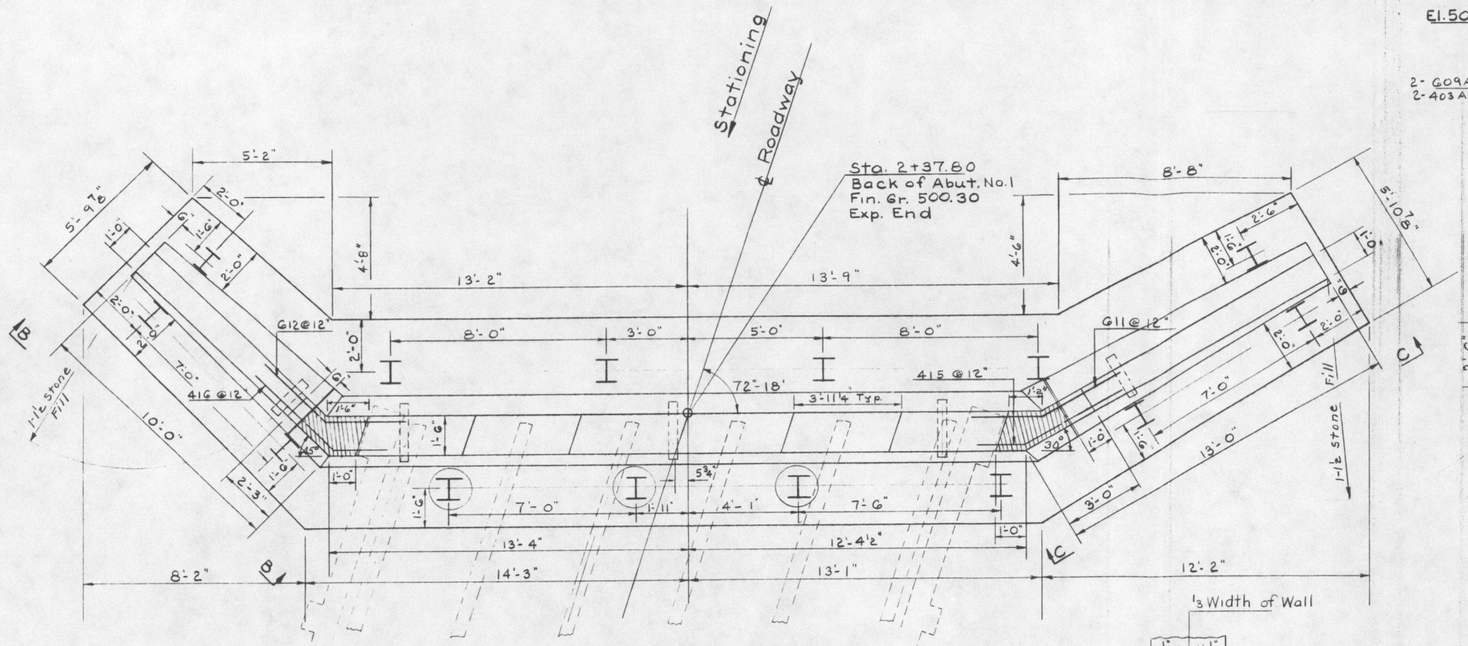
Work to be done

1. Jack Abut. No.1 end of existing superstructure.
2. Remove old abutment.
3. Construct new abutment.
4. Lower superstructure to new abutment.
5. Construct approach.

Total Quantities

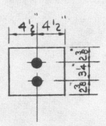
Item #	Item	Unit	Total	Final
102	Borrow	C.Y.	100	
106-A	Channel Excavation of Earth	C.Y.	84	
107	Structure Excavation	C.Y.	203	
201-A	Sub-base of Gravel	C.Y.	28	
222	Gravel Backfill	C.Y.	77	
401-B	Concrete Class B, Mod.	C.Y.	69	
402	Reinforcing Steel	Lb.	3800	
404-A	Structural Steel	Lb.	300	
441	Temporary Bridge	L.S.	1	
501	Furnishing Equipment for Driving Piles	L.S.	1	
503	Splices for Steel Piling	Ea.	3	
504	Steel Piling	L.F.	420	
521	Stone Fill (Heavy Type)	C.Y.	28	
549-A	Removing and Resetting Two Cable Guard Rail	L.F.	48	
548-A	Wood Guide Posts	Ea.	4	

STOWE TF 34-1962



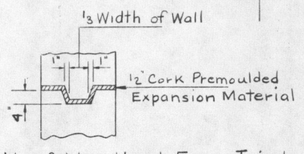
Plan

Note: Three piles encircled in front row to be driven vertically through holes in bridge deck or battered the minimum to pass end of superstructure.

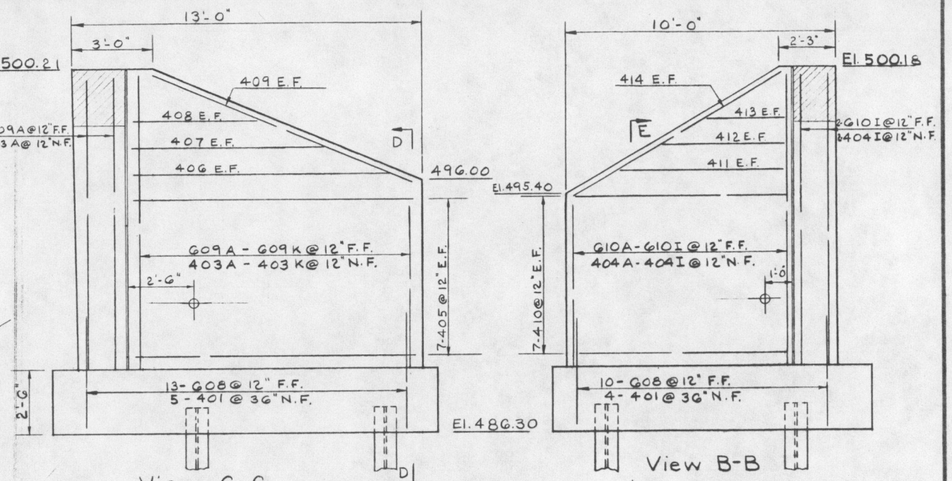


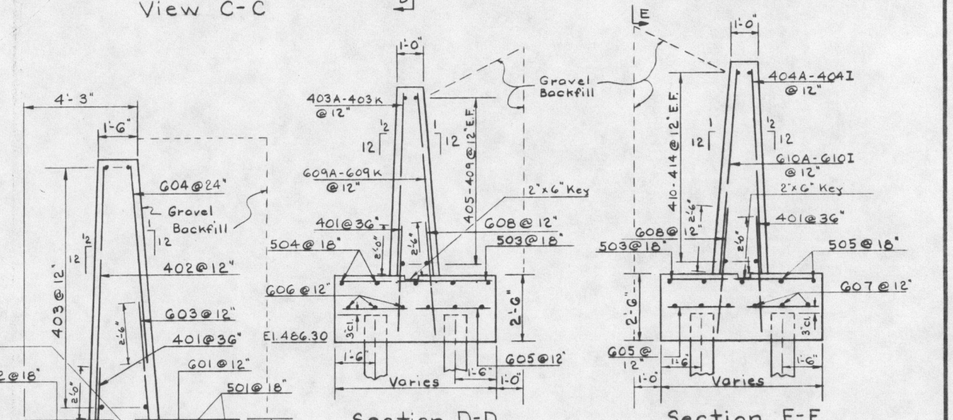
Note: For details of swedge bolts & brg. plates not shown see Std. Sh. SB-20-60, Detail C, Fixed End Brg. Plate B.

Detail of Bearing Plate
(6 Plates Required
12 Bolts Required)



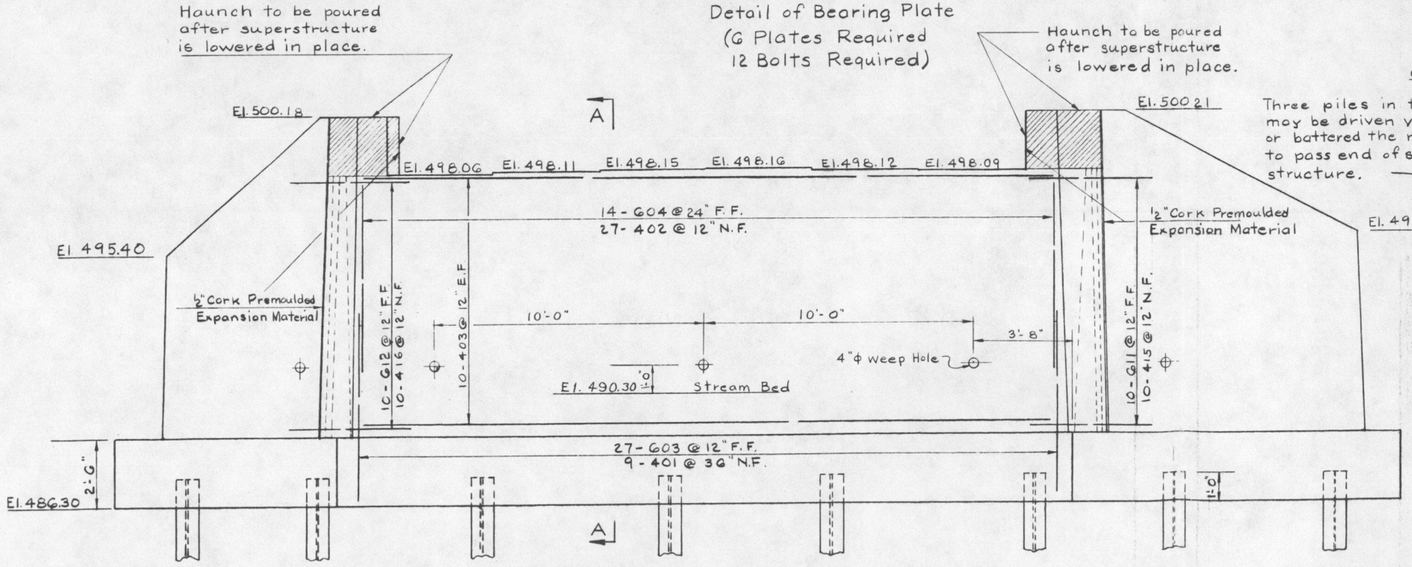
Detail of Vertical Exp. Joints





Notes
1. Three piles in the front of the main abut. footing may be driven vertically through the deck or battered to pass end of superstructure. All other piles to be vertical. All piles to be 10BP42, 35 Ton capacity, estimated length 30ft.
2. Reinforcing steel in footing to have 3" clear cover. All other reinforcing to have 2" clear cover.
3. Bridge seat elevations given are at ℄ of brg.

Haunch to be poured after superstructure is lowered in place.



Elevation

Haunch to be poured after superstructure is lowered in place.

El. 500.21

½" Cork Premoulded Expansion Material

El. 496.00

Abutment No.1 Quantities

ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL	FINAL
106-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF ROCK	C.Y.				
106-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.	203		203	
401-B	CONC. CLASS B (MOD.)	C.Y.	63		63	
402	REINF. STEEL	LBS.	3800		3800	
407	ASPHALTIC-ASB. COATING	S.Y.				
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.	3		3	
504	STEEL PILING	L.F.	420		420	
502-A	UNTREATED TIMBER PILING	L.F.				
222	Gravel Backfill	C.Y.	77		77	
501	Furnishing Equipment for Driving Piles	L.S.	1		1	
521	Stone Fill (Heavy Type)	C.Y.	88		88	
404-A	Structural Steel	Lb.	300		300	

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF Stowe
Town Bridge No. 48
ROUTE NO. TR43 LOG STA.

Abutment Details

Abut. No. 1

SCALE 3/8" = 1'-0"
SURVEYED BY Spaulding
DRAWN BY A.J.C. CHECKED BY W.M.S.
PROJECT NO. TF 34/1962
SHEET BR-2 OF BR-6

Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
						ABUTMENT											
1																	
2																	
* 3	19	4	4-0	401	Str.												
4	27		9-0	402													
5	3		11-3	403A													
6	1		10-10	403B													
7			10-5	403C													
8			10-0	403D													
9			9-7	403E													
10			9-2	403F													
11			8-9	403G													
12			8-4	403H													
13			7-11	403I													
14			7-6	403J													
15			7-0	403K													
16			6-5	404A													
17			7-0	404B													
18			7-7	404C													
19			8-2	404D													
20			8-9	404E													
21			9-4	404F													
22			9-11	404G													
23	1		10-6	404H													
24	3		11-2	404I													
25	20		25-6	403													
26	14		10-9	405													
27	2		9-6	406													
28	2		7-3	407													
29	2		4-6	408													
30	2		10-6	409													
31	14		8-0	410													
32	2		6-3	411													
33	2		4-6	412													
34	2		3-0	413													
35	2	4	9-0	414	Str.												
36																	
37	6	5	27-0	501	Str.												
38	18		7-6	502													
* 39	18		5-6	503													
40	5		14-0	504													
41	5	5	11-6	505	Str.												
42																	
43	28	6	7-6	601	Str.												
44	8		27-0	602													
45	27		7-0	603													
46	14		6-9	604													
47	27		5-6	605													
48	6		14-0	606													
49	6		11-6	607													
* 50	23		5-0	608													
51	3		11-3	609A													
52	1		10-10	609B													
53			10-5	609C													
54			10-0	609D													
55			9-7	609E													
56			9-2	609F													
57			8-9	609G													
58			8-4	609H													
59			7-11	609I													
60			7-6	609J													
61			7-0	609K													
62			6-5	610A													
63			7-0	610B													
64			7-7	610C													
65			8-2	610D													
66			8-9	610E													
67			9-4	610F													
68			9-11	610G													
69	1		10-6	610H													
70	3	6	11-2	610I	Str.												
71																	
72	10	4	6-3	415	19		2-0	4-3					1-0		1-8¾		
73	10	4	5-9	416	19		2-0	3-9					1-5		1-5		
74																	
75	10	6	6-6	611	19		3-0	3-6					1-6		2-7¼		
76	10	6	6-3	612	19		3-0	3-3					2-1½		2-1½		
77																	
78																	
79																	
80																	
81																	

Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
82																	
83																	
84																	
85																	
86																	
87																	
88																	
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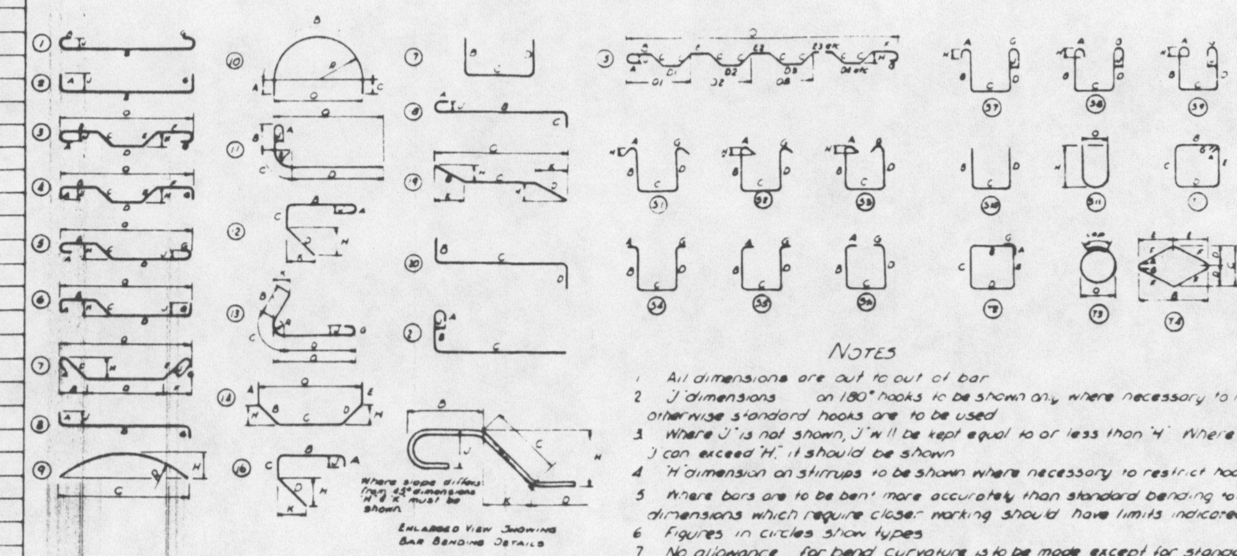
162																	

TYPICAL BAR BENDS



NOTES

1. All dimensions are out to out of bar
2. 'J' dimensions on 180° hooks to be shown only where necessary to restrict hook size otherwise standard hooks are to be used
3. Where 'J' is not shown, 'J' will be kept equal to or less than 'H'. Where 'J' can exceed 'H,' it should be shown
4. 'H' dimension on stirrups to be shown where necessary to restrict hooks
5. Where bars are to be bent more accurately than standard bending tolerances bending dimensions which require closer marking should have limits indicated
6. Figures in circles show types
7. No allowance for bend curvature is to be made except for standard hook & radii in excess of same.

GNL

Item	No Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
163																	
164																	
165																	
166																	
167																	
168																	
169																	
170																	
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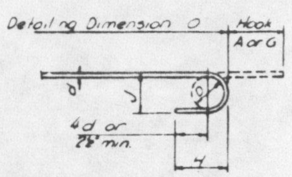
190																	



STANDARD HOOK DETAIL

BAR SIZES

Equivalent Size	Present Numbers
¼"φ	#2
⅜"φ	#3
½"φ	#4
⅝"φ	#5
¾"φ	#6
⅞"φ	#7
1"φ	#8
1"φ	#9
1⅛"φ	#10
1¼"φ	#11

* Indicates one bar included for test purposes.

8. Bar reinforcement metal shall conform to the requirements of the Standard Specifications for new Billet-Steel Concrete Reinforcement Bars (Intermediate Grade) Serial Designation A.A.S.H.O. M31-48 or its latest revision.
All bars shall be deformed to conform with A.S.T.M. Specifications A 305-49.

ESTIMATED QUANTITIES

Location	Pounds
Abutment	3800
Total	3800

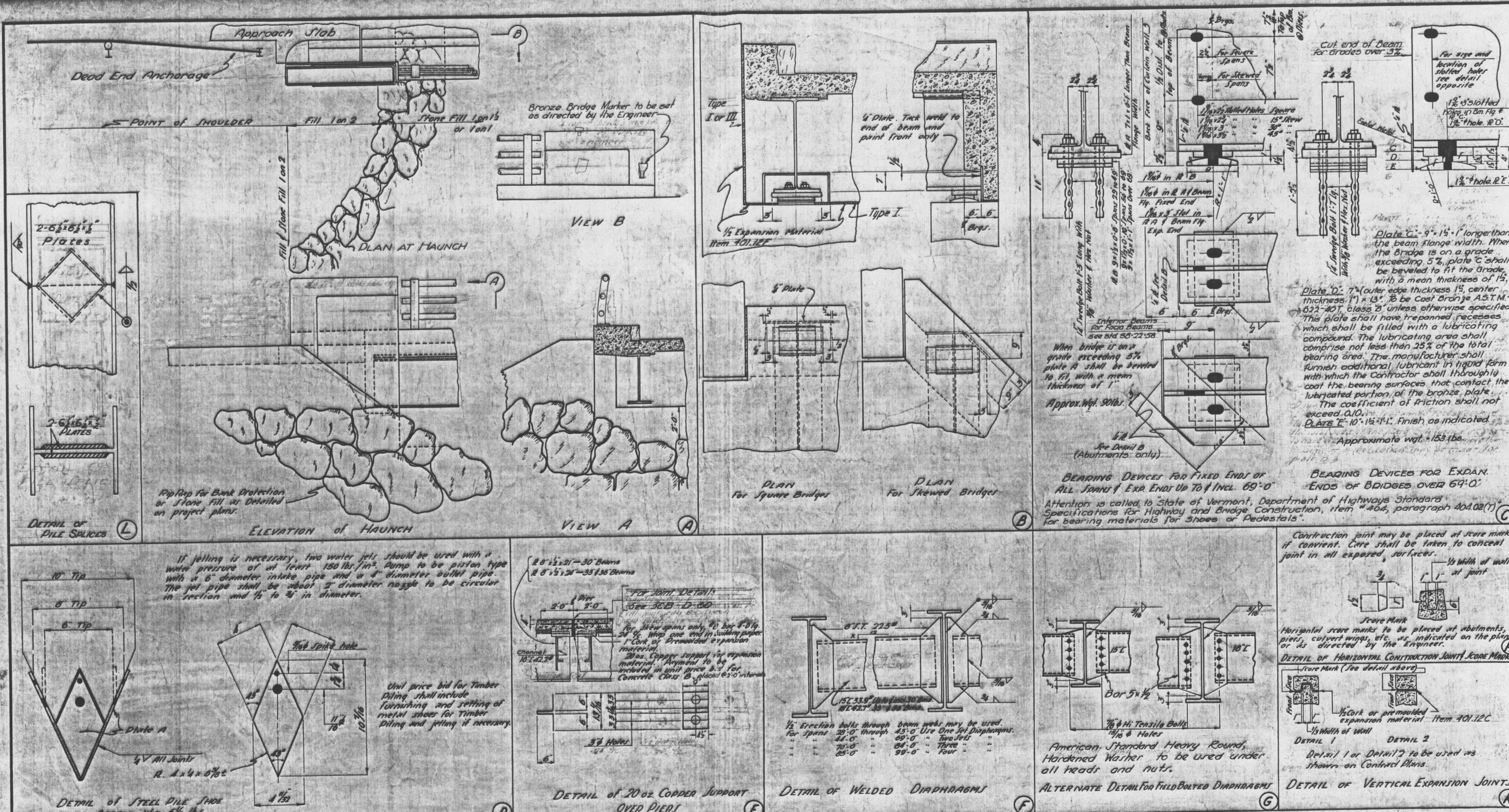
Stowe

Town Rd #43 Town Bridge #48

Reinforcing Schedule

Project No. TF 34/1962

Sheet BR-3 of 6



Revisions & Corrections

Revised July 1962

Drawn By L.M. Bjorn 2-56
Traced By A.P. MacDougal 2-56
Checked By J.L. Hibbard 2-56

Correct 13 July 1960
L.M. Bjorn
Bridge Engineer

Approved 13 July 1960
[signature]
Chief Engineer

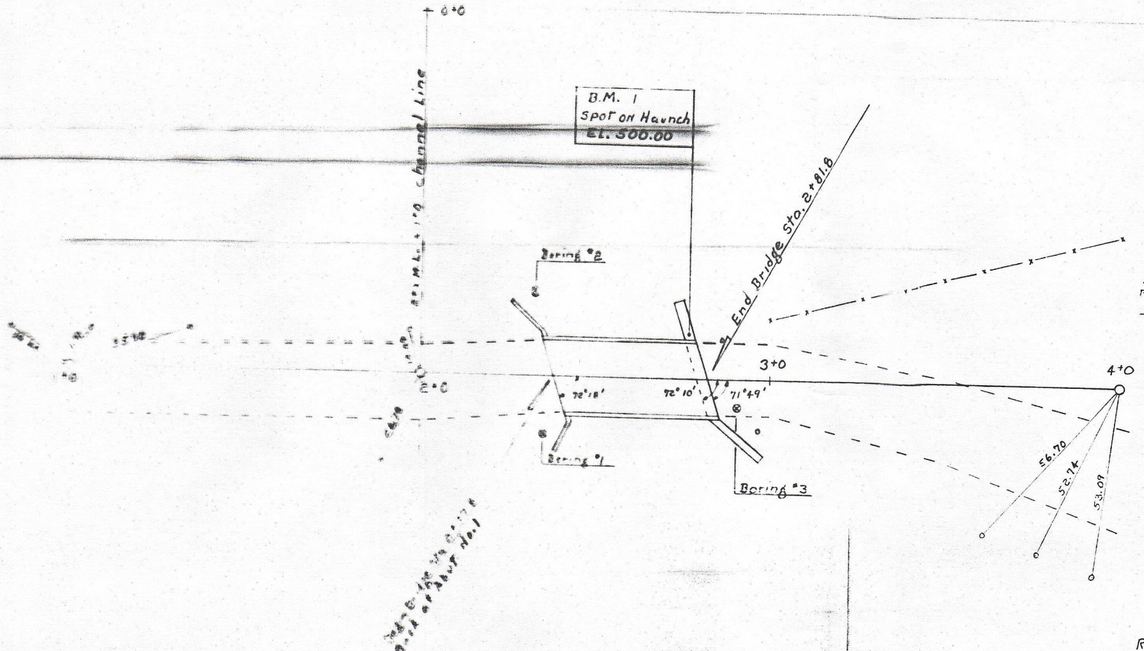
CONSTRUCTION DETAILS FOR WF BEAM BRIDGES

DEPARTMENT OF HIGHWAYS
STANDARD STRUCTURES

SB-20-60

235

OK RSH July 1962



Ground Elev. 499.3
3 Trials To Penetrate boulders

	Color	Soil	Blows Per Foot
	Grey	Gravel & Some Sand Trace of Silt	5, 20, 25, 24, 24, 31, 95
-7			
	Grey	Gravel & Some Sand Trace of Silt	44, 38, 7, 30, 36, 23, 19, 44, 37, 33, 36, 44
-19	White	Sand & Gravel Trace of Silt	31, 22, 25, 29
-23	White	Sand Trace of Gravel & Silt	33, 38, 31, 33
-27	White	Sand Some Gravel Trace of Silt	48, 96, 72, 49
-31	White	Sand Trace of Gravel & Silt	81, 71, 59, 58
-35	White	Gravel & Sand	65, 210
Refusal -36.7			

Abutment #1 Bottom of Footing Elev. 486.30

Ground Elev. 488.3
4 Trials To Penetrate boulders

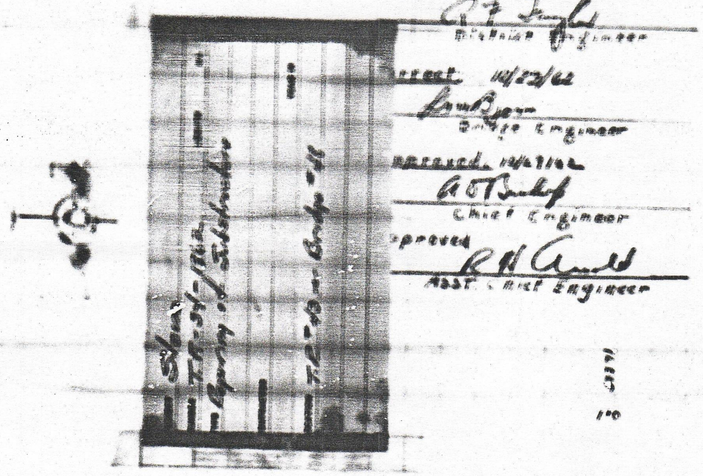
	Color	Soil	Blows Per Foot
	Lt. Grey	Sand Some Gravel Trace of Silt	0, 0, 1, 8, 16, 9, 19, 14, 19, 18
-11			
	Lt. Grey	Sand Some Gravel Little Silt	20, 18, 23, 18, 16, 35, 44, 47
-19			
	Lt. Grey	Gravel & Sand Trace of Silt	77, 44, 66, 68, 78, 76, 44
-25.4		Refusal	

Ground Elev.
2 Trials To Penetrate boulders

-15
-19
-27
-29

Construct Satisfactory Approach

Steel Piles HP 10 x 42 Est. 70' Long



Approved 11/15/62
C. F. Gay
Highway Engineer

Concur 11/13/62
Lou Bye
Bridge Engineer

Approved: Matter
A O Bullard
Chief Engineer

Approved
R H Arnold
Asst. Chief Engineer

Sta. 1+22.5 Bk. of Abut. No. 1
Sta. 1+40 Ahead of Abut. No. 1

List of Sheets

BR-1	Plan & Profile
" -2	Abutment No. 1 Details
" -3	Reinforcing Schedule
" -4	Standard Structures SB-20-60
" -5	Roadway Sections
" -6	Channel Sections

Note: All material and Construction shall to State of Vermont Standard Spe for Highway and Bridge Construct and current modifications.

Work to be done

1. Jack Abut. No. 1 end of existing superstructure.
2. Remove old abutment.
3. Construct new abutment.
4. Lower superstructure to new abutment.
5. Construct approach.

Total Quantit

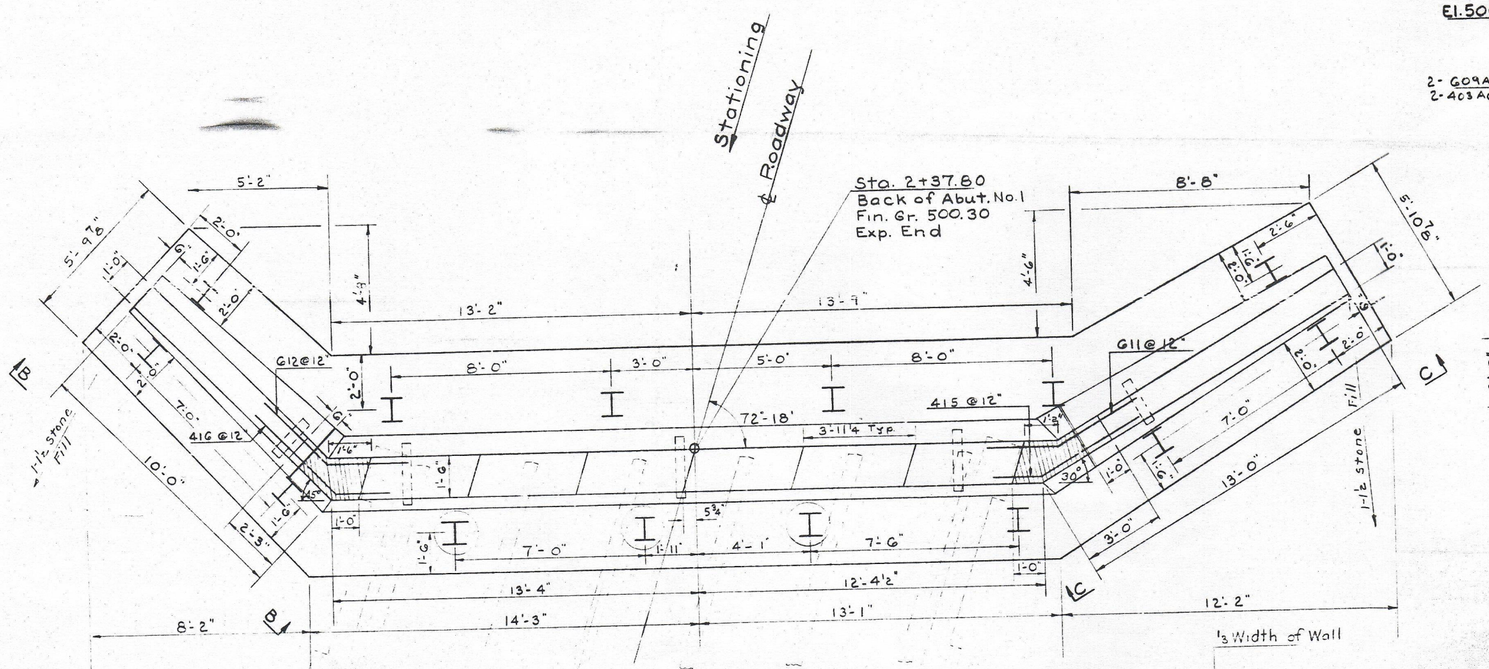
Item #	Item
102	Borrow
106-A	Channel Excavation of Earth
107	Structure Excavatio
201-A	Sub-base of Gravel
222	Gravel Backfill
401-B	Concrete Class B, Mo
402	Reinforcing Steel
404-A	Structural Steel
441	Temporary Bridge
501	Furnishing Equipment for Driving Piles
503	Splices for Steel Piling
504	Steel Piling
521	Stone Fill (Heavy Type)
549-A	Removing and Resettin Two Cable Guard Rail
548-A	Wood Guide Posts

BRIDGE NO. 48
OVER MILLER BROOK

STOWE, VT

RTE TH. #43

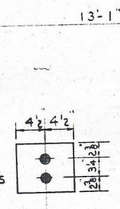
Sh



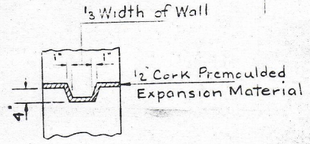
Plan

Note: Three piles encircled in front row to be driven vertically through holes in bridge deck or battered the minimum to pass end of superstructure.

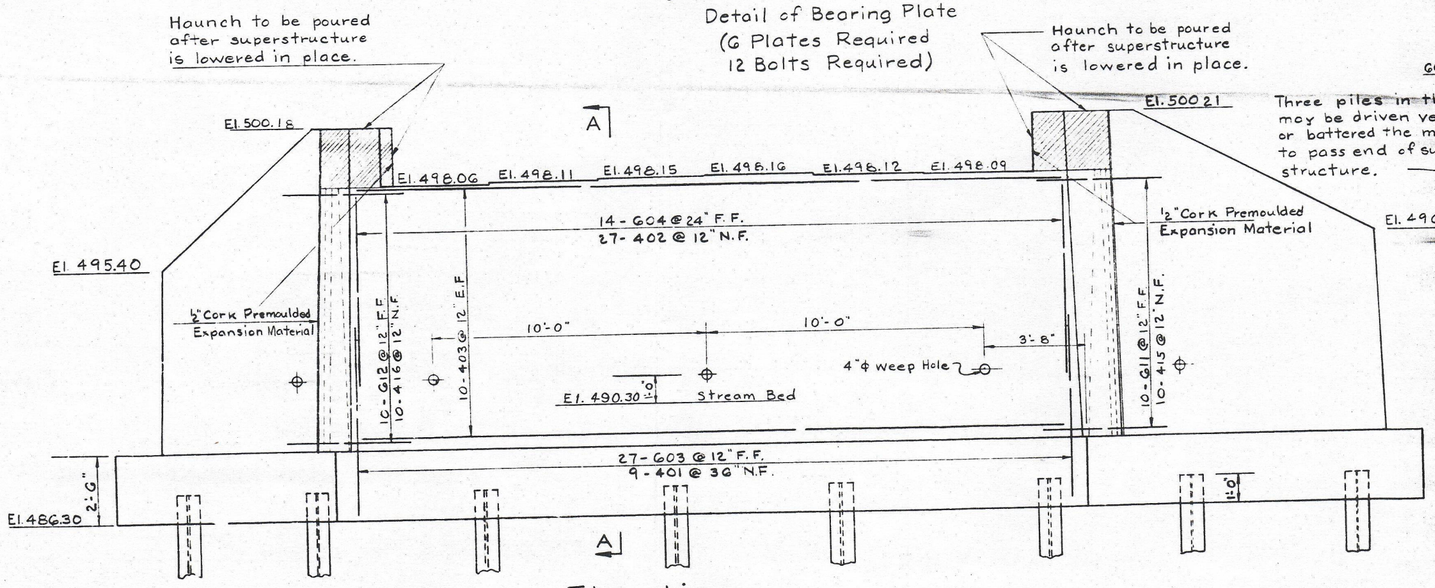
Note: For details of swedge bolts & brg. plates not shown see Std. Sh. SB-20-60, Detail C, Fixed End Brg. Plate B.



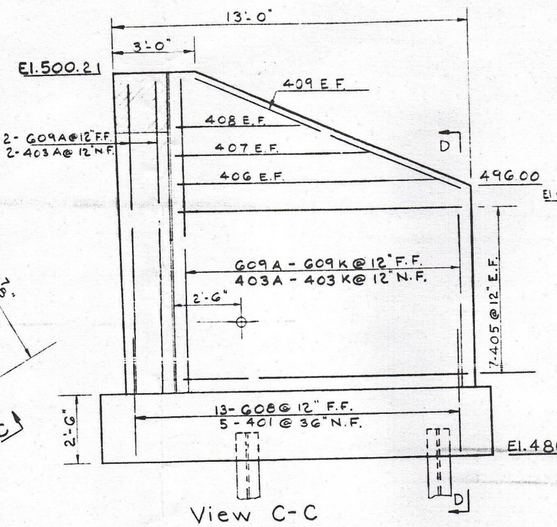
Detail of Bearing Plate
(6 Plates Required
12 Bolts Required)



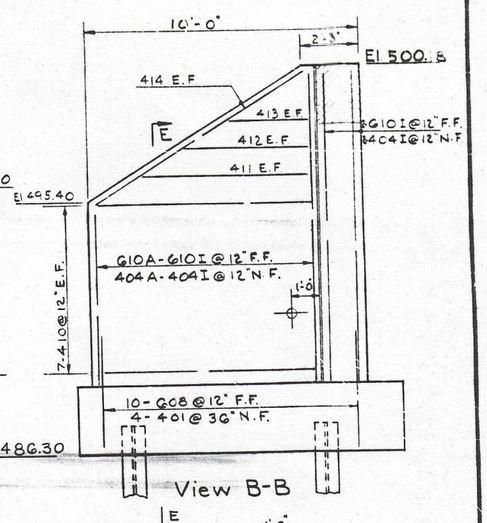
Detail of Vertical Exp. Joints



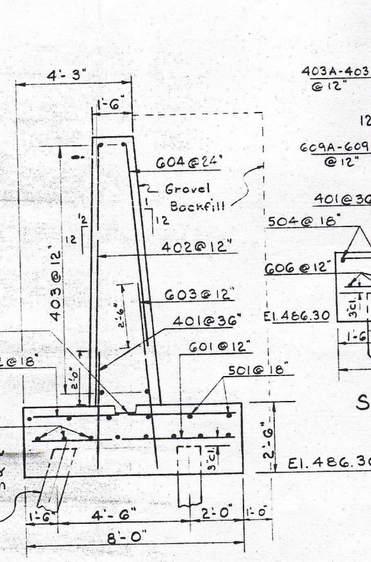
Elevation



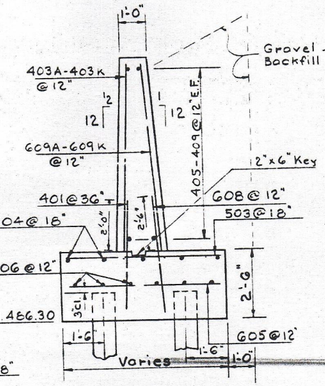
View C-C



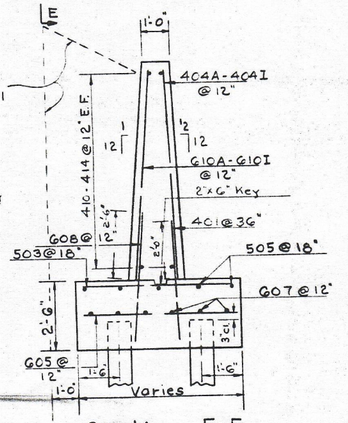
View B-B



Section A-A



Section D-D



Section E-E

Notes

1. Three piles in the front of the main abut. footing may be driven vertically through the deck or battered to pass end of superstructure. All other piles to be vertical. All piles to be 10BP42, 35 Ton capacity, estimated length 30 ft.
2. Reinforcing steel in footing to have 3" clear cover. All other reinforcing to have 2" clear cover.
3. Bridge seat elevations given are at ℄ of brg.

Abutment No.1 Quantities

ITEM NO.	ITEM	UNIT	NET	OVERRUN	TOTAL	FINAL
106-A	CHAN. EXCAV. OF EARTH	C.Y.				
106-B	CHAN. EXCAV. OF ROCK	C.Y.				
106-C	UNCLASS. CHAN. EXCAV.	C.Y.				
107	STRUCT. EXCAV.	C.Y.	203		203	
401-B	CONC. CLASS B (MOD.)	C.Y.	63		63	
402	REINF. STEEL	LBS.	3800		3800	
407	ASPHALTIC-ASB. COATING	S.Y.				
502-B	TREATED TIMBER PILING	L.F.				
503	SPLICES FOR STEEL PILING	EA.	3		3	
504	STEEL PILING	L.F.	420		420	
502-A	UNTREATED TIMBER PILING	L.F.				
222	Gravel Backfill	C.Y.	77		77	
501	Furnishing Equipment for Driving Piles	L.S.	1		1	
521	Stone Fill (Heavy Type)	C.Y.	88		88	
404-A	Structural Steel	Lb.	300		300	

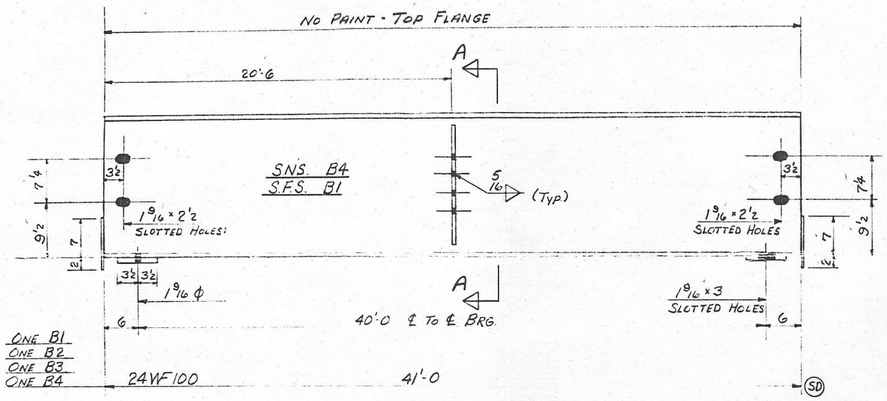
STATE OF VERMONT
DEPARTMENT OF HIGHWAYS
OVER MILLER BROOK

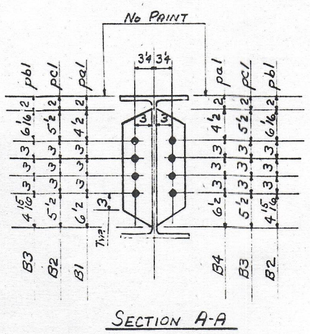
TOWN OF Stowe Town Bridge No. 46
ROUTE NO. TR43 LOG STA.

Abutment Details

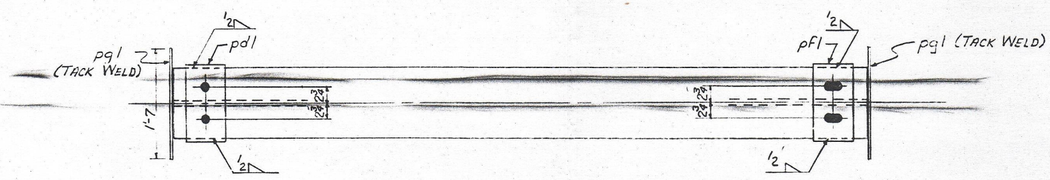
Abut. No.1

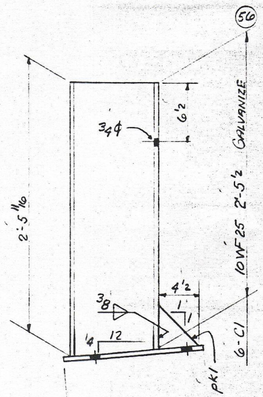
SCALE 3⅛" = 1'-0"
SURVEYED BY Spaulding
DRAWN BY A.J.C. CHECKED BY W.M.S.
PROJECT NO. TF 34/1962
SHEET BR-2 OF BR-6



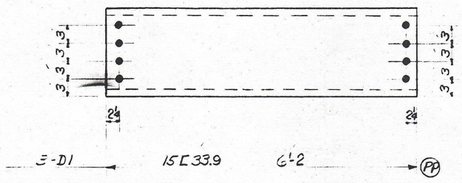


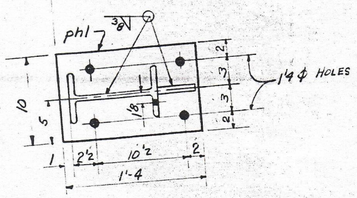
SECTION A-A

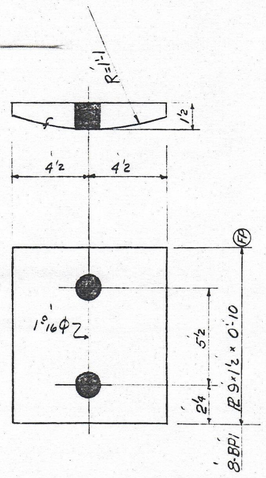


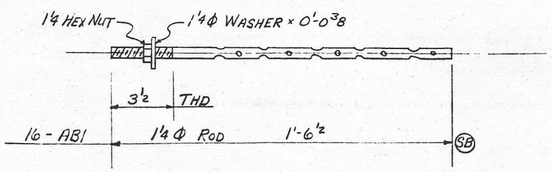


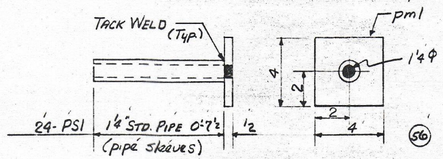
GALVANIZE AFTER FABRICATION











GALVANIZE AFTER FABRICATION

BILL OF MATERIAL

NO PIECES	MARK	DESCRIPTION	LENGTH FT.	LENGTH IN.		WEIGHT
		- RAIL POSTS - (GALV)			SG	
6	C1	10WF25	2	5 11/16	STK	
6	ph1	PL 10 x 1/2	1	4	STK	
6	pk1	PL 5 x 1/2	0	5	STK	
		3/8 F WELD	12	6		
		- PIPE SLEEVES -			SG	
24	PS1	1¼ I.D. PIPE	C	7½	RES 1@2'-0	
24	pm1	PL 4 x 1/2	C	4	STK	
		- FIELD MATERIAL -			A	
26		7/8 Φ H.I. TEN BOLTS	0	2¼	STK	
26		7/8" Φ HARD WASHER			STK	
26		1" Φ MACH. BOLTS (GALV	0	10½	CFD. STD. NUT & BOLT 770-24	
26		1" Φ RD. WASHER)			STK	

JOB NO. 69-917 SHEET NO. 1 b/b

ASTM A-36

BILL OF MATERIAL

NO PIECES	MARK	DESCRIPTION	LENGTH FT.	LENGTH IN.		WEIGHT
		- BEAMS -			SD	
1	B1	24 WF 100	41	0	ORD. 876602	
1	B2	do	41	0		
1	B3	do	41	0		
1	B4	do	41	0		
2	pa1	PL 5 x 1/2	1	8	STK	
2	pb1	do	1	8	STK	
2	pc1	do	1	8	STK	
4	pd1	PL 7 x 1	1	1	STK	
4	pf1	do	1	1	STK	
8	pg1	PL 9 x 1/4	1	7	STK	
		5/16 F WELD	9	4		
		1/2 F WELD	2	4		
		PAINT 1/2 OF 1%				
		- BEARING PLATES -			FB	
8	BP1	PL 9 x 1/2	0	10	STK	
		- DIAPHRAGMS -			PP	
3	D1	15 [33.9	6	2	STK	
		PAINT 1/2 OF 1%				
		- SWEDGE BOLTS -			SB	
16	AB1	1¼ Φ ROD	1	6½	RES 2@20'-0	
16		1¼ HEX NUT			STK	
16		1¼Φ WASHER	3	3/8 THK	STK	

VERMONT STRUCTURAL STEEL CORPORATION
BURLINGTON, VT.

REV. RES FED 3/11/64 DWG. MILLER BROOK

DRAWN BY	G.H.P.	DATE 8/26/63
CK'D BY	K.T.	11/1/63

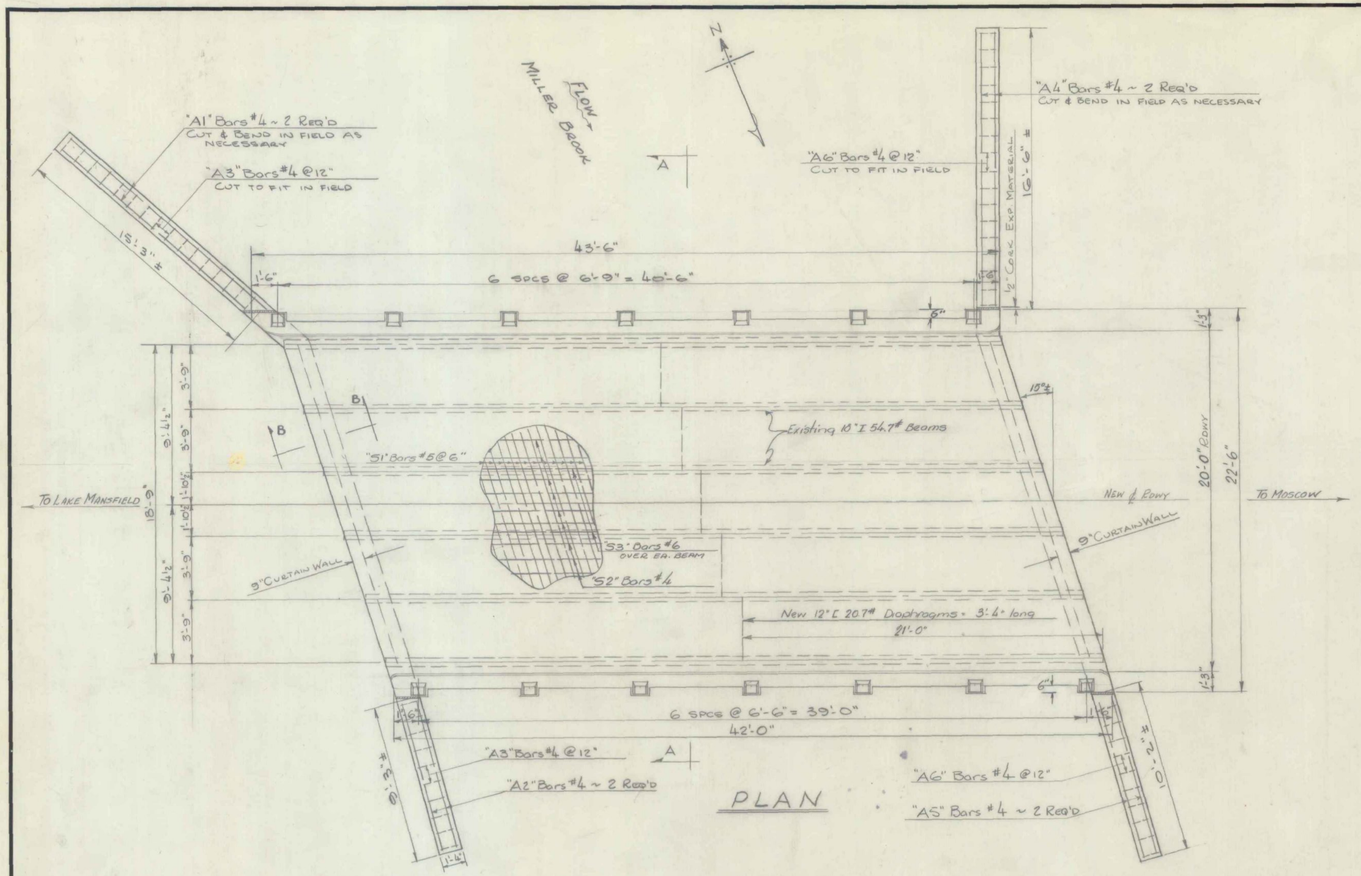
PROJECT STOWE BRIDGE TF 39(1) 1963
LOCATION TOWN OF STOWE, VT
CUSTOMER TOWN OF STOWE
ARCHITECT VERMONT STATE HWY. DEPT.
JOB NO. 69-917 SHEET NO. 1 b/b

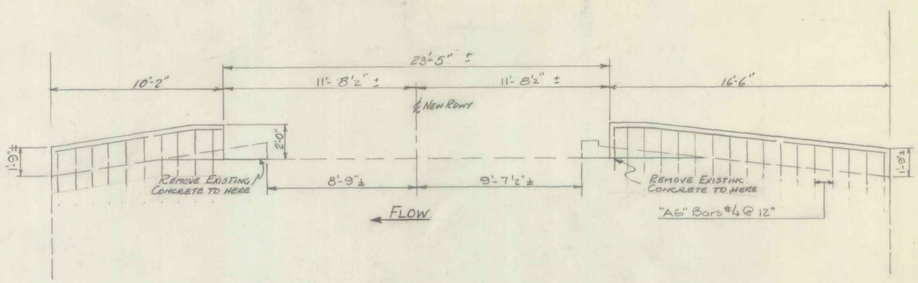
HOLES 15 1¼ Φ'S NOTED
BOLTS 7/8 Φ HI TEN BOLTS
PAINT RED LEAD (STATE SPECS)

PRINT RECORD

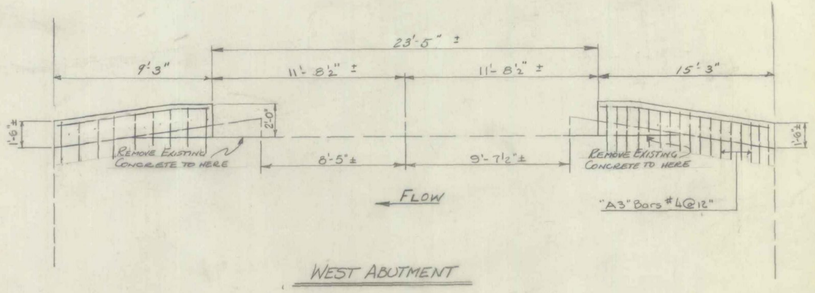
NO	FOR	DATE
-	FED	1-1-64
5	FED	2-11-64
6	FED	4-6-64

SM 1063 QCP

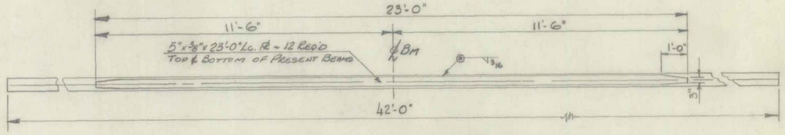




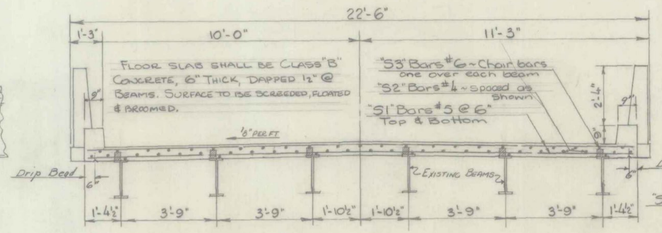
EAST ABUTMENT



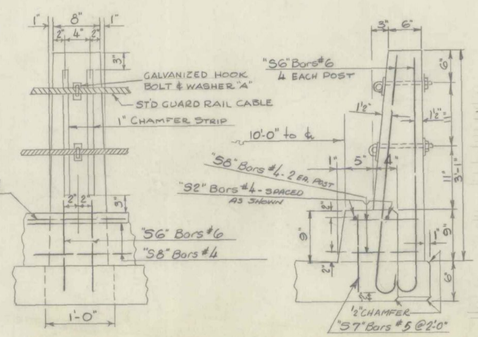
WEST ABUTMENT



COVER PLATE DETAIL
Scale ⅜"=1'-0"



SECTION A-A
Scale ⅜"=1'-0"



POST DETAILS
Scale 1"=1'-0"

NOTES:-

This sheet to be used in conjunction with Standard Drawing C.I. 20S

New Structural Steel shall consist of:
24 Swedge Bolts 1¼" ϕ x 1'-3" long w/ ⅜" washers & Hex. nuts
12 Plates ⅜" x 8½" x 23'-0" long.
5 Channels 12" @ 20.7# - 3'-7" long.
20 Angles 4" x 3½" x 9" long.
The approximate weight of this Structural Steel is 1242 # (Loader Blades for Bearing Pts not included)
For Reinforcing Steel Details see Sheet 2 of 4 Sheets.

All new Structural Steel shall be painted in accordance with the Vt. Dept. of Bridge Specs.
All existing Structural Steel shall be thoroughly cleaned & painted with one coat of Shop paint and two coats of field paint as per Specifications.
Payment for removal of existing haunches, backwalls, & parts of wings to be made under Item 101-B, Solid Rock Excavation.
Payment for drilling & grouting of dowels to be paid for under unit price bid for Concrete, Class "B".
Where new Concrete is to be placed in contact with existing Concrete, the existing concrete shall be thoroughly cleaned & wetted before new concrete is poured.

101-B	Solid Rock Excavation	2 C.Y.
401-B	Concrete, Class "B" (Mod.)	26 C.Y.
402	Reinforcing Steel	6600 lbs.
403A	Structural Steel	1242 lbs.

LIST OF SHEETS

No 1.	This Sheet	
" 2	Reinf. Steel	Schedule
" 3	Drwg. CI 20S	
" 4	"	S.B. 20

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

TOWN OF STOWE
ROAD NO. TOWN #43 BRIDGE NO. 48
SUPERSTRUCTURE AND ABUTMENT DETAILS
SCALE 1¼"=1'-0" EXCEPT AS NOTED
SURVEYED BY Jennings
DRAWN BY JT CHECKED BY S.N.
PROJECT NO. T 14-1954
SHEET 1 OF 4

PROJECT Stowe
NUMBER T-14-1954
TYPE New Superstructure
CONTRACTOR
LOCATION Town Rd #43
LENGTH MI.
YEAR 19

K&E PHOENIX N166 TRACING CLOTH B. L. M. INC. 4218

Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
1				SUPERSTRUCTURE													
2																	
3	*165	5	22-0	S1		Straight											
4	*101	4	21-10	S2			"										
5	*13	6	22-1	S3			"										
6	44	3	4-1	S4	S2	0-4	1-6	0-5	1-6			0-4	0-2½				
7	6	5	22-0	S5		Straight											
8	56	6	3-11	S6	1	0-8	3-3					NONE					
9	44	5	1-0	S7		Straight											
10	28	4	3-0	S8	S4	0-6	0-9	0-6	0-9			0-6					
11																	
12				ABUTMENTS													
13																	
14	2	4	15-0	A1		Straight											
15	2	4	9-0	A2			"										
16	26	4	5-6	A3	17		2-3	1-0	2-3								
17	2	4	16-2	A4		Straight											
18	2	4	9-10	A5			"										
19	27	4	6-0	A6	17		2-6	1-0	2-6								
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Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
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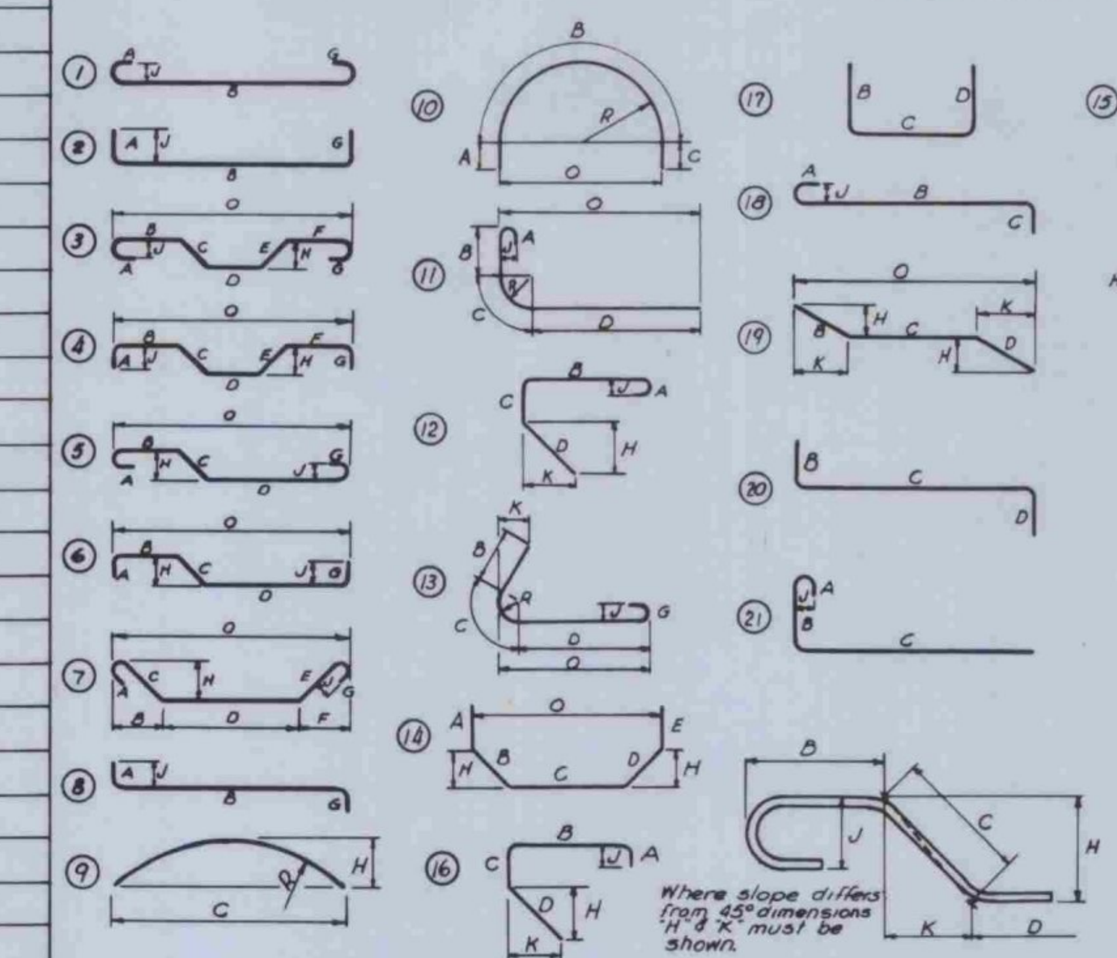
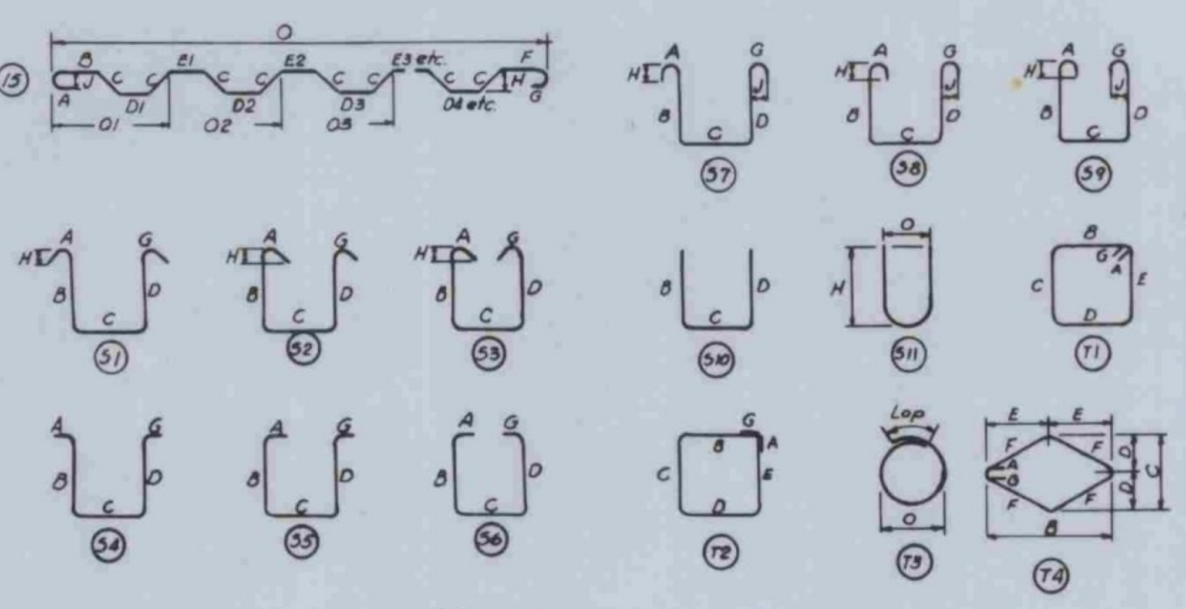
TYPICAL BAR BENDS





ENLARGED VIEW SHOWING BAR BENDING DETAILS

NOTES:

1. All dimensions are out to out of bar.
2. "J" dimensions on 180° hooks to be shown only where necessary to restrict hook size, otherwise standard hooks are to be used.
3. Where "J" is not shown, "J" will be kept equal to or less than "H." Where "J" can exceed "H," it should be shown.
4. "H" dimension on stirrups to be shown where necessary to restrict hooks.
5. Where bars are to be bent more accurately than standard bending tolerances, bending dimensions which require closer working should have limits indicated.
6. Figures in circles show types.
7. No allowance for bend curvature is to be made except for standard hook & radii in excess of same.

Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
163																	
164																	
165																	
166																	
167																	
168																	
169																	
170																	
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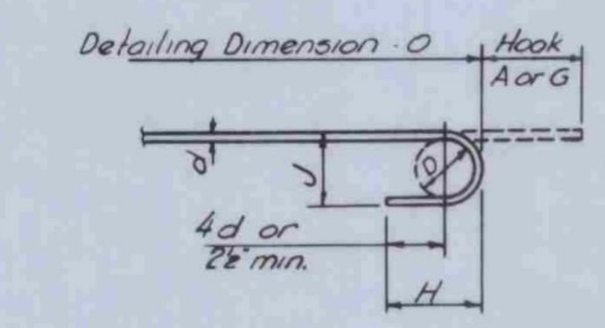
190																	

* DENOTES EXTRA BAR ADDED FOR TESTING PURPOSES



STANDARD HOOK DETAIL

BAR SIZES

Equivalent Size	Present (Numbers)
¼"φ	#2
⅜"φ	#3
½"φ	#4
⅝"φ	#5
¾"φ	#6
⅞"φ	#7
1"φ	#8
1"□	#9
1⅛"□	#10
1¼"□	#11

8. Bar reinforcement metal shall conform to the requirements of the Standard Specifications for new Billet-Steel Concrete Reinforcement Bars (Intermediate Grade) Serial Designation A.A.S.H.O. M31-48 or its latest revision.
All bars shall be deformed to conform with A.S.T.M. Specifications A305-49.

ESTIMATED QUANTITIES

Location	Pounds
SUPERSTRUCTURE	6329
ABUTMENTS	271
TOTAL	6600 #

STOWE
LAKE MANSFIELD ROAD
TOWN RD #43 BRIDGE #48

Surveyed by Jennings
Designed by
Drawn by JJ
Traced by JJ
Checked by SN
Series T No. 14-1954 Filed
Sheet 2 of 4 Sheets

PRINTED BY SPAULDING-MOSS CO., BOSTON, MASS., RE-ORDER NO. D-232