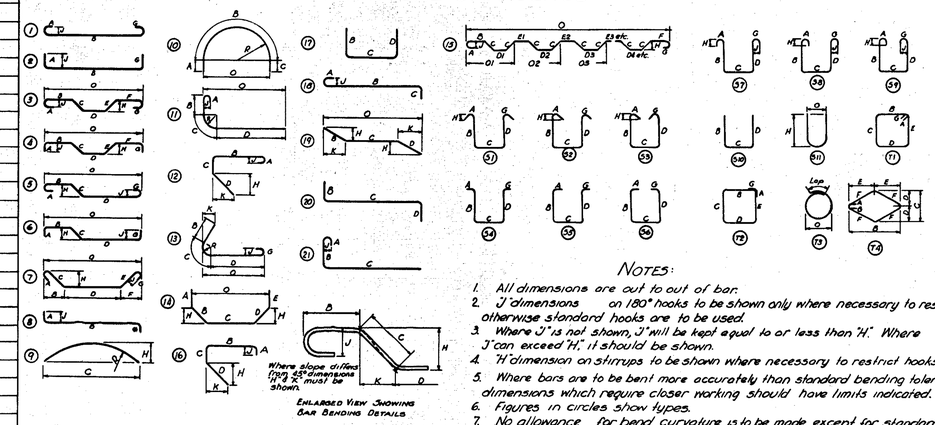
B. P. R. DIV. NO.	STATE	PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	VT.	I-89-2(7)		

Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
		SPAN	No. 1	LEFT	LANE	(RIGHT LANE-SIMILAR)											
1	366	#5	34'-4"	S1-501	STR												
2	*193	#4	34'-3"	S2-401	STR												
3	#31	#6	34'-6"	S3-601	STR												
4	130	#4	4'-10"	S4-404	S3	0'-4½"	1'-4"	1'-5"	1'-4"			0'-4½"	0'-2½"				
5	8	#5	35'-0"	S5A-502	STR												
6	6	#5	32'-6"	S5P-503	STR												
7	26	#4	7'-2"	S6A-402	S2	0'-4½"	2'-10"	0'-9"	2'-10"			0'-4½"	0'-2½"				
8	24	#4	4'-10"	S6P-403	S2	0'-4½"	1'-8"	0'-9"	1'-8"			0'-4½"	0'-2½"				
9	24	#6	3'-0"	S7-602	1	0'-8"	1'-8"	0'-8"						0'-6"			
10	12	#5	3'-3"	S9P-506	Str.												
11	4	#4	4'-11"	S10P-405	S2	0'-4½"	1'-8"	0'-10"	1'-8"			0'-4½"	0'-2½"				
12		SPAN	NO. 2	LEFT	LANE	(RIGHT LANE-SIMILAR)											
13	366	#5	34'-4"	S1-501	STR												
14	192	#4	34'-3"	S2-401	STR												
15	30	#6	34'-6"	S3-601	STR												
16	132	#4	4'-10"	S4-404	S3	0'-4½"	1'-4"	1'-5"	1'-4"			0'-4½"	0'-2½"				
17	12	#5	33'-0"	S5P-504	STR												
18	48	#4	4'-10"	S6P-403	S2	0'-4½"	1'-8"	0'-9"	1'-8"			0'-4½"	0'-2½"				
19	24	#5	3'-3"	S9P-506	Str.												
20	8	#4	4'-11"	S10P-405	S2	0'-4½"	1'-8"	0'-10"	1'-8"			0'-4½"	0'-2½"				
21		SPAN	NO. 3	LEFT	LANE	(RIGHT LANE-SIMILAR)											
22	366	#5	34'-4"	S1-501	STR												
23	192	#4	34'-3"	S2-401	STR												
24	30	#6	34'-6"	S3-601	STR												
25	130	#4	4'-10"	S4-404	S3	0'-4½"	1'-4"	1'-5"	1'-4"			0'-4½"	0'-2½"				
26	8	#5	36'-5"	S5A-505	STR												
27	6	#5	33'-0"	S5P-504	STR												
28	30	#4	7'-2"	S6A-402	S2	0'-4½"	2'-10"	0'-9"	2'-10"			0'-4½"	0'-2½"				
29	24	#4	4'-10"	S6P-403	S2	0'-4½"	1'-8"	0'-9"	1'-8"			0'-4½"	0'-2½"				
30	25	#6	3'-0"	S7-602	1	0'-8"	1'-8"	0'-8"						0'-6"			
31	12	#5	3'-3"	S9P-506	Str.												
32	4	#4	4'-11"	S10P-405	S2	0'-4½"	1'-8"	0'-10"	1'-8"			0'-4½"	0'-2½"				
33		APPROACH		SLAB-ABUTMENT		NO. 1											
34	1	#10	21'-6"	ASI-[illegible]	1	0'-11"	19'-8"					0'-11"		0'-8"			
35			21'-10"	ASI-1002			20'-0"										
36			22'-3"	ASI-1003			20'-5"										
37			22'-8"	ASI-1004			20'-10"										
38			23'-2"	ASI-1005			21'-4"										
39			23'-7"	ASI-1006			21'-9"										
40			24'-1"	ASI-1007			22'-3"										
41			24'-6"	ASI-1008			22'-8"										
42			24'-11"	ASI-1009			23'-1"										
43			25'-5"	ASI-1010			23'-7"										
44			25'-10"	ASI-1011			24'-0"										
45			26'-4"	ASI-1012			24'-6"										
46			26'-9"	ASI-1013			24'-11"										
47			27'-2"	ASI-1014			25'-4"										
48			27'-8"	ASI-1015			25'-10"										
49			28'-1"	ASI-1016			26'-3"										
50			28'-6"	ASI-1017			26'-8"										
51			29'-0"	ASI-1018			27'-2"										
52			29'-5"	ASI-1019			27'-7"										
53			29'-11"	ASI-1020			28'-1"										
54			30'-4"	ASI-1021			28'-6"										
55			30'-9"	ASI-1022			28'-11"										
56			31'-3"	ASI-1023			29'-5"										
57			31'-8"	ASI-1024			29'-10"										
58			32'-2"	ASI-1025			30'-4"										
59			32'-7"	ASI-1026			30'-9"										
60			33'-0"	ASI-1027			31'-2"										
61			33'-6"	ASI-1028			31'-8"										
62			33'-11"	ASI-1029			32'-1"										
63			34'-4"	ASI-1030			32'-6"										
64	1		34'-8"	ASI-1031			32'-10"										
65	2		14'-2"	ASI-1032			12'-4"										
66	2		13'-2"	ASI-1033	1	0'-11"	11'-4"					0'-11"		0'-8"			
67	*3	#10	5'-0"	AS2-1034	STR.												
68	28	#5	15'-10"	AS3-501													
69	18		17'-1"	AS3-502													
70	1		15'-3"	AS3-503													
71			13'-0"	AS3-504													
72			10'-9"	AS3-505													
73			8'-6"	AS3-506													
74			6'-3"	AS3-507													
75			4'-0"	AS3-508													
76			16'-6"	AS3-509													
77			14'-2"	AS3-510													
78			11'-10"	AS3-511													
79			9'-6"	AS3-512													
80			7'-2"	AS3-513													
81	1	#5	4'-10"	AS3-514	STR.												

Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
82	1	#5	2'-6"	AS3-515	STR.												
83	2		17'-5"	AS4-516													
84	2		10'-6"	AS5-517													
85	2		9'-6"	AS5-518	STR.												
86	8	#5	4'-4"	AS6-519	S3	0'-5"	1'-6"	0'-6"	1'-6"			0'-5"	0'-2¾"				
87																	
88																	
89		APPROACH		SLAB -	ABUTMENT	NO. 2											
90	1	#10	21'-6"	ASI-1035	1	0'-11"	19'-8"					0'-11"		0'-8"			
91			21'-10"	ASI-1036			20'-0"										
92			22'-3"	ASI-1037			20'-5"										
93			22'-8"	ASI-1038			20'-10"										
94			23'-1"	ASI-1039			21'-3"										
95			23'-7"	ASI-1040			21'-9"										
96			24'-0"	ASI-1041			22'-2"										
97			24'-5"	ASI-1042			22'-7"										
98			24'-10"	ASI-1043			23'-0"										
99			25'-4"	ASI-1044			23'-6"										
100			25'-9"	ASI-1045			23'-11"										
101			26'-2"	ASI-1046			24'-4"										
102			26'-7"	ASI-1047			24'-9"										
103			27'-0"	ASI-1048			25'-2"										
104			27'-6"	ASI-1049			25'-8"										
105			27'-11"	ASI-1050			26'-1"										
106			28'-4"	ASI-1051			26'-6"										
107			28'-1"	ASI-1052			26'-11"										
108			29'-2"	ASI-1053			27'-4"										
109			29'-8"	ASI-1054			27'-10"										
110			30'-1"	ASI-1055			28'-3"										
111			30'-6"	ASI-1056			28'-8"										
112			31'-0"	ASI-1057			29'-2"										
113			31'-5"	ASI-1058			29'-7"										
114			31'-10"	ASI-1059			30'-0"										
115			32'-3"	ASI-1060			30'-5"										
116			32'-8"	ASI-1061			30'-10"										
117			33'-2"	ASI-1062			31'-4"										
118			33'-7"	ASI-1063			31'-9"										
119			34'-0"	ASI-1064			32'-2"										
120	1		34'-4"	ASI-1065	1	0'-11"	32'-6"					0'-11"		0'-8"			
121	2		5'-0"	AS2-1034	STR.												
122	2		13'-8"	AS2-1066	1	0'-11"	13'-10"					0'-11"		0'-8"			
123	2	#10	14'-8"	AS2-1067	1	0'-11"	12'-10"					0'-11"		0'-8"			
124	25	#5	15'-10"	AS3-501	STR.												
125	21		17'-1"	AS3-502													
126	1		15'-3"	AS3-520													
127			12'-11"	AS3-521													
128			10'-6"	AS3-522													
129			8'-2"	AS3-523													
130	1		5'-10"	AS3-524													
131	*2		3'-6"	AS3-525													
132	1		16'-0"	AS3-526													
133			13'-8"	AS3-527													
134			11'-4"	AS3-528													
135			9'-0"	AS3-529													
136			6'-8"	AS3-530													
137			4'-4"	AS3-531													
138	1		2'-0"	AS3-532													
139	2		17'-5"	AS4-516													
140	2		12'-0"	AS5-533													
140	2		11'-0"	AS5-534	STR.												
141	10	#5	4'-4"	AS6-519	S3	0'-5"	1'-6"	0'-6"	1'-6"			0'-5"	0'-2¾"				
142																	
143																	
144		APPROACH		SLAB -	ABUTMENT	NO. 3		(NO. 4 SIMILAR)									
145	1	#10	36'-10"	ASI-1068	1	0'-11"	35'-0"					0'-11"		0'-8"			
146			36'-4"	ASI-1069			34'-6"										
147			35'-11"	ASI-1070			34'-1"										
148			35'-5"	ASI-1071			33'-7"										
149			34'-11"	ASI-1072			33'-1"										
150			34'-5"	ASI-1073			32'-7"										
151			33'-10"	ASI-1074			32'-0"										
152			33'-4"	ASI-1075			31'-6"										
153			32'-10"	ASI-1076			31'-0"										
154			32'-3"	ASI-1077			30'-5"										
155			31'-9"	ASI-1078			29'-11"										
156			31'-3"	ASI-1079			29'-5"										
157			30'-9"	ASI-1080			28'-11"										
158			30'-3"	ASI-1081			28'-5"										
159			29'-8"	ASI-1082			27'-10"										
160			29'-2"	ASI-1083			27'-4"										
161			28'-8"	ASI-1084			26'-10"										
162	1	#10	28'-2"	ASI-1085	1	0'-11"	26'-4"					0'-11"		0'-8"			

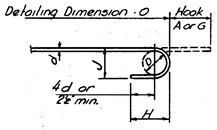
TYPICAL BAR BENDS



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 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	1	#10	27'-7"	ASI-1086	1	0'-11"	25'-9"					0'-11"		0'-8"			
164			27'-1"	ASI-1087			25'-3"										
165			26'-7"	ASI-1088			24'-9"										
166			26'-1"	ASI-1089			24'-3"										
167			25'-6"	ASI-1090			23'-8"										
168			25'-0"	ASI-1091			23'-2"										
169			24'-6"	ASI-1092			22'-8"										
170			24'-0"	ASI-1093			22'-2"										
171			23'-5"	ASI-1094			21'-7"										
172			22'-11"	ASI-1095			21'-1"										
173			22'-5"	ASI-1096			20'-7"										
174			22'-0"	ASI-1097			20'-2"										
175	1		21'-6"	ASI-1098	1	0'-11"	19'-8"					0'-11"		0'-8"			
176	2		5'-0"	AS2-1034	STR.												
177	2		19'-4"	AS2-1099	1	0'-11"	17'-6"					0'-11"		0'-8"			
178	2	#10	20'-8"	AS2-1099A	1	0'-11"	18'-10"					0'-11"		0'-8"			
179	19	#5	15'-10"	AS3-501	STR.												
180	28		17'-1"	AS3-502													
181	1		3'-9"	AS3-535													
182			5'-7"	AS3-536													
183			7'-6"	AS3-537													
184			9'-4"	AS3-538													
185			11'-3"	AS3-539													
186			13'-1"	AS3-540													
187			15'-0"	AS3-541													
188			3'-6"	AS3-542													
189			5'-5"	AS3-543													
190			7'-4"	AS3-544													
191			9'-2"	AS3-545													
192			11'-1"	AS3-546													
193			13'-0"	AS3-547													
194			14'-10"	AS3-548													
195	1		16'-9"	AS3-549													
196	2		18'-0"	AS4-550													
197	2		15'-8"	AS5-551													
198	2		16'-11"	AS5-552	STR.												
199	14	#5	4'-4"	AS6-519	S3	0'-5"	1'-6"	0'-6"	1'-6"			0'-5"	0'-2¾"				
200	*69	#8	4'-0"	S8P-801	STR.	17 Bars Over Each Pier											



STANDARD HOOK DETAIL

BAR SIZES

Equivalent Size	Present (Numbers)
1/4"ϕ	#2
3/8"ϕ	#3
1/2"ϕ	#4
5/8"ϕ	#5
3/4"ϕ	#6
7/8"ϕ	#7
1"ϕ	#8
1"□	#9
1⅛"□	#10
1¼"□	#11

IM 089-2(26)

This sheet for information only

BR 48 N & S

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.

* Denotes one additional bar for testing purposes

CONTRACT NO. 1

ESTIMATED QUANTITIES

FINAL	Location	Pounds
40,814	Span No. 1 (L & R Lane)	=40699=
40,312	Span No. 2 (L & R Lane)	=40204=
40,744	Span No. 3 (L & R Lane)	=40688=
5,074	Approach Slab No. 1	=5080=
4,947	Approach Slab No. 2	=5069=
6,150	Approach Slab No. 3	=5413=
6,150	Approach Slab No. 4	=5413=
144,191	TOTAL	=142566=

REINFORCING SCHEDULE

STATE OF VERMONT
DEPARTMENT OF HIGHWAYS

INTERSTATE PROJECT in the town of WATERBURY

INTERSTATE STA. 865+24
OVER
LITTLE RIVER STA. 5+15

THE CLARKESON ENGINEERING CO., INC.
CONSULTING ENGINEERS
BOSTON MASS.

SURVEYED BY
DRAWN BY J.B.&B.K.
CHECKED BY J.B.&B.K. SCALE NONE
IN CHARGE J.V.B. DATE 8-20-57
PROJECT NO. I-89-2(7) SHEET 236 OF 307

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