ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
1																	
2							SUPERSTRUCTURE										
3																	
4				EPOXY			COATED										
5	777	5	40-0	ES501	STR												
6	1554	↕	25-8	ES502	↕												
7	207		26-5	ES503													
8	345		27-10	ES504													
9	414		27-4	ES505													
10	756		29-9	ES506													
11	12	↕	26-6	ES507	↕												
12	312	5	19-7	ES511	STR								CUT TO FIT				
13																	
14*	1555	6	6-9	ES601	STR												
15	364	6	15-0	ES602	STR		CHAIR	BARS									
16*	68	8	20-0	ES801	STR												
17*	68	10	20-0	ES1001	STR												
18																	
19																	
20																	
21																	
22	51	5	3-3	ES508	17		1-0	1-3	1-0								
23	51	5	3-9	ES509	17		/	2-9	1-0								
24	51	5	3-9	ES510	17		1-0	1-9	1-0								
25																	
26																	
27																	
28																	
29																	
30																	
31																	
32																	
33	776	5	7-5	ES512	23	0-5½	0-10	2-4	1-0	2-4		0-5½			0-3		
34	776	5	7-0	ES513	T5	0-5½	0-11	1-0	0-11	1-6	1-9	0-5½	0-10		0-7		
35																	
36																	
37																	
38																	
39																	
40																	
41							ABUTMENT #1										
42																	
43																	
44	53	5	7-9	IA501	STR												
45	18	↕	28-6	IA502	↕												
46	44		26-6	IA503													
47*	5		6-9	IA504													
48	56	5	4-0	IA508	STR												
49	52	5	4-8	IA509	STR							CUT TO FIT IN FIELD					
50																	
51	18	8	29-4	IA801	STR												
52																	
53	8	11	31-1	IA1101	STR												
54																	
55																	
56																	
57	51	5	8-6	IA505	17		1-6	7-0	/								
58	52	5	5-9	IA506	17		1-0	3-9	1-0				CUT TO FIT				
59	52	5	10-11	IA507	17		6-8	0-9	3-6								
60	51	5	5-6	IA510	17		1-6	4-0	/								
61																	
62	53	6	9-1	IA601	1	0-8	7-9				0-8						
63																	
64	24	8	4-6	IA802	19		2-0	2-6	/								
65																	
66																	
67																	
68																	
69																	
70							WINGWALL #1										
71																	
72																	
73	16	5	4-0	IW501	STR												
74	12	↕	5-6	IW502	↕												
75	7		17-2	IW503													
76	26		11-4	IW504									CUT TO FIT				
77	10	5	15-6	IW505	STR												
78				IW506			NOT USED										
79																	
80																	

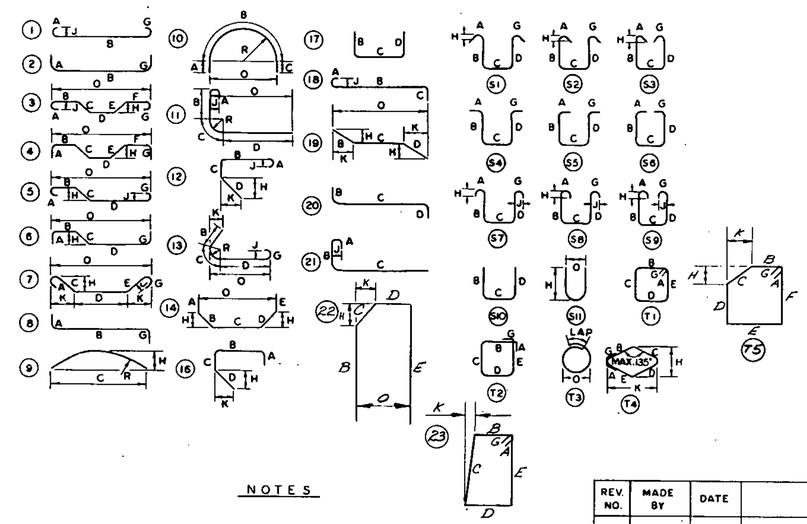
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
81																	
82																	
83	2	5	4-5	IW506	STR												
84	10	↕	13-6	IW509	↕												
85	4	5	11-5	IW510	STR												
86																	
87																	
88	7	8	17-2	IW801	STR												
89																	
90	4	11	17-2	IW1101	STR												
91																	
92																	
93																	
94	12	5	5-0	IW507	17		4-0	1-0	/								
95	5	5	10-4	IW511	1	0-7	9-2					0-7					
96	5	5	7-10	IW512	1	0-7	6-8					0-7					
97																	
98																	
99*	13	6	6-10	IW601	1	0-8	5-6					0-8					
100																	
101																	
102							EPOXY		COATED								
103																	
104*	9	5	13-5	IEW501	STR									CUT TO FIT			
105																	
106																	
107	6	5	7-11	IEW502	22		2-7	1-0	0-11	3-5			0-10		0-7		1-6
108	*8	5	7-8	IEW503	17		3-5	0-10	3-5								
109	10	5	7-5	IEW504	23	0-5½	0-10	2-4	1-0	2-4		0-5½			0-3		
110	3	5	6-5	IEW505	T1	0-5½	0-10	1-11	0-10	1-11		0-5½					
111																	
112																	
113																	
114																	
115																	
116							WINGWALL #2										
117																	
118																	
119	16	5	4-0	2W501	STR												
120	12	↕	5-6	2W502	↕												
121	7		17-0	2W503													
122	26		10-6	2W504													
123	8		15-6	2W505													
124				2W506			NOT USED										
125	2		3-8	2W508													
126	12	↕	13-6	2W509	↕												
127	2	5	12-6	2W510	STR												
128																	
129																	
130	7	8	17-0	2W801	STR												
131																	
132*	5	11	17-0	2W1101	STR												
133																	
134																	
135																	
136	12	5	5-0	2W507	17		4-0	1-0	/								
137	4	5	12-8	2W511	1	0-7	11-6					0-7					
138	4	5	9-8	2W512	1	0-7	8-6					0-7					
139																	
140																	
141	12	6	6-10	2W601	1	0-8	5-6					0-8					
142																	
143																	
144							EPOXY		COATED								
145																	
146*	9	5	14-6	2EW501	STR									CUT TO FIT			
147																	
148																	
149	7	5	7-11	2EW502	22		2-7	1-0	0-11	3-5			0-10		0-7		1-6
150	*8	5	7-8	2EW503	17		3-5	0-10	3-5								
151	11	5	7-5	2EW504	23	0-5½	0-10	2-4	1-0	2-4		0-5½			0-3		
152	3	5	6-5	2EW505	T1	0-5½	0-10	1-11	0-10	1-11		0-5½					
153																	
154																	
155																	
156																	
157																	
158																	
159																	
160																	

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
161								PIER #1									
162	96	5	26-0	IP501	STR												
163																	
164	18	6	28-4	IP601	↕												
165	56	6	7-6	IP608	↕												
166																	
167*	109	7	11-0	IP701													
168	220	7	13-10	IP703													
169	16	8	29-4	IP801	↕												
170																	
171	8	11	31-1	IP1101	STR												
172																	
173																	
174	50	5	8-6	IP502	17		3-0	2-6	3-0								
175	48	5	7-11	IP503	10	2-0	3-11	2-0								1-3	2-6
176	84	5	12-5	IP504	T1	0-5½	2-6	3-3	2-6	3-3		0-5½					
177																	
178*	221	7	7-4	IP702	17		1-6	5-10	/								
179																	
180	110	8	9-4	IP802	1	0-11	7-6					0-11					

ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	CROSS SECTIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.376	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.356
#7	2.044	.875	.60	2.749
#8	2.670	1.000	.79	3.142
#9	3.400	1.128	1.00	3.544
#10	4.303	1.270	1.27	3.990
#11	5.313	1.410	1.56	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

TYPICAL BAR BENDS



NOTES

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENTS OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT," AASHTO M 31 (ASTM A 615 -511), GRADE 60.
2. FOR TYPICAL BENDING DETAILS, RECOMMENDED PIN DIAMETER "D" OF BENDS AND HOOKS AND OTHER STANDARD PRACTICE SEE CURRENT CONCRETE REINFORCING STEEL INSTITUTE "MANUAL OF STANDARD PRACTICE."
3. BARS WHICH REQUIRE MORE ACCURATE BENDING THAN STANDARD PRACTICES SHOULD HAVE LIMITS INDICATED.
4. ALL DIMENSIONS ARE OUT TO OUT OF BAR EXCEPT "A" AND "G" ON STANDARD 180° AND 135° HOOKS.
5. "J" DIMENSION ON 180° HOOKS TO BE SHOWN ONLY WHERE NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS TO BE SHOWN ONLY WHEN NECESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45° DIMENSIONS "H" AND "K" MUST BE SHOWN.

* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.

REV. NO.	MADE BY	DATE	DESCRIPTION

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF ST. JOHNSBURY	BRIDGE NO. 1
	LOG STA.
HIGHWAY NO. I 91 NORTHERN CONN.	SURV. STA. 60+0
I 91 NORTHERN CONNECTOR OVER PASSUMPSIC RIVER	
REINFORCING STEEL SCHEDULE	
DESIGNED BY G.V. SPIKAK	DRAWN BY M. GARCIA
CHECKED BY D.C. WILLEY DATE 12/84	BRIDGE DESIGN SUPERVISOR R.S. HAUPT DATE 11/84
PROJECT ST. JOHNSBURY	PROJECT NO. DP.FF 041-1(10)
BRIDGE SHEET NO. BR128	SHEET 86 OF 229

BRUNING 44-131 40151

BR-5