ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
				ABUTMENT # 3													
1																	
2	45	5	4-0	3A501	STR												
3	38		7-6	3A503													
4	88		6-11	3A504													
5	36		23-8	3A505													
6	28		23-8	3A508													
7	7	5	6-11	3A509													
8																	
9	36	6	27-3	3A601	STR												
10																	
11																	
12	43	5	5-0	3A502	17		4-0	1-0									
* 13	46		12-2	3A506	16	2-0	4-0	0-8	5-6	GRADE 40 (includes 3 extra bars for 3-4'-0" test bars)							
14	43		14-0	3A507	17	0-7	6-2	0-6	6-2			0-7	GRADE 40				
15	8		15-8	3A510	14		2-0	11-8	2-0			1-0					15-2
16	8	5	10-8	3A511	14		2-0	6-8	2-0			1-9					8-8
17																	
18	28	6	5-6	3A602	19			2-6	3-0			2-6		1-6			
19																	
20	49	7	9-2	3A701	1	0-10	7-6					0-10					
21																	
22																	
23				WINGWALL #5													
24																	
* 25	26	5	4-0	5W501	STR	(includes 2 extra bars for test bars.)											
26	22		8-0	5W503													
27	21		12-2	5W505													
28	3		7-4	5W506													
29	16		23-0	5W507													
30	12		20-0	5W508													
31	5	5	20-0	5W510													
32																	
* 33	19	7	24-2	5W701	STR	(includes 1 extra bar for 6-4'-0" test bars.)											
34																	
35																	
36	21	5	7-6	5W502	17		6-6	1-0									
37	22		15-2	5W504	17		14-2	1-0									
38	21	5	11-1	5W509	22	3-6	0-6	1-3	1-0	0-10	0-6	3-6	0-3		0-6	GRADE 40	
39																	
* 40	27	8	9-10	5W801	1	0-11	8-0					0-11	(includes 3 extra bars for 6-4'-0" test bars)				
41																	
42																	
43				WINGWALL #6													
44																	
45	23	5	4-0	6W501	STR												
46	19		8-0	6W503													
47	21		11-8	6W505													
48	3		6-11	6W506													
49	14		22-4	6W507													
50	12		19-6	6W508													
51	5	5	19-6	6W510													
52																	
53	18	7	27-0	6W701	STR		CUT TO FIT IN FIELD										
54																	
55																	
56	19	5	7-6	6W502	17		6-6	1-0									
57	20		14-8	6W504	17		13-8	1-0									
58	21	5	11-1	6W509	22	3-6	0-6	1-3	1-0	0-10	0-6	3-6	0-3		0-6	GRADE 40	
59																	
60	25	8	9-10	6W801	1	0-11	8-0					0-11					
61																	
62																	
63				ABUTMENT #4													
64																	
65	45	5	4-0	4A501	STR												
66	38		7-6	4A503													
* 67	88		6-8	4A504													
68	34		23-8	4A505													
69	7	5	6-8	4A507													
70																	
71	36	6	27-3	4A601	STR												
72																	
73																	
74	43	5	5-0	4A502	17		4-0	1-0									
75	44		10-0	4A506	16	2-0	3-1	0-8	4-3			GRADE		40			
76	7		15-8	4A508	14		2-0	11-8	2-0			1-0					15-2
77	8	5	10-8	4A509	14		2-0	6-8	2-0			1-9					8-8
78																	
79	29	6	5-6	4A602	19			2-6	3-0			2-6		1-6			
80	51	7	9-2	4A701	1	0-10	7-6					0-10					

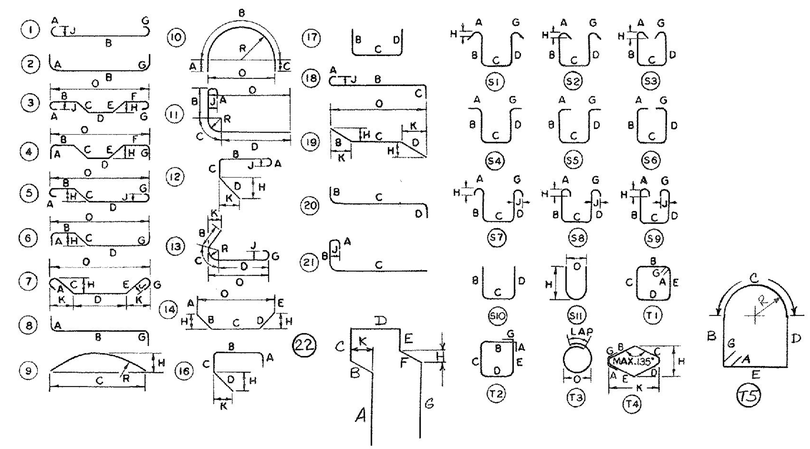
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
81																	
82	17	5	4-0	7W501	STR												
83	13		8-0	7W503													
84	14		11-0	7W505													
85	3		7-2	7W506													
86	16		16-4	7W507													
87	10		13-2	7W508													
88	5	5	13-2	7W510													
89																	
90	18	7	21-0	7W701	STR		CUT TO FIT IN FIELD										
91																	
92																	
93	13	5	7-6	7W502	17		6-6	1-0									
94	14		14-0	7W504	17		13-0	1-0									
95	14	5	11-1	7W509	22	3-6	0-6	1-3	1-0	0-10	0-6	3-6	0-3		0-6	GRADE 40	
96																	
97	20	8	9-10	7W801	1	0-11	8-0					0-11					
98																	
99																	
100				WINGWALL #8													*
101																	
102	17	5	4-0	8W501	STR												
103	17		8-0	8W503		(includes 2 extra bars for 4-4'-0" test bars)											
104	15		10-6	8W505													
105	2		6-8	8W506													
106	14		16-0	8W507													
107	10		13-11	8W508													
108	5	5	13-11	8W510													
109																	
110	18	7	17-2	8W701	STR												
111																	
112																	
113	14	5	7-6	8W502	17		6-6	1-0									
114	15		13-6	8W504	17		12-6	1-0									
115	15	5	11-1	8W509	22	3-6	0-6	1-3	1-0	0-10	0-6	3-6	0-3		0-6	GRADE 40	
116																	
117	18	8	9-10	8W801	1	0-11	8-0					0-11					
118																	
119																	
120				PIER #1													
121																	
122	6	5	29-6	1P501	STR												
123																	
124	39	6	11-6	1P602													
125																	
126	12	7	37-6	1P701													
127																	
128	102	9	17-3	1P902													
129	102		17-6	1P903													
130	102	9	8-11	1P904													
131																	
* 132	13	10	37-6	1P1001		(includes 1 extra bar for 6-4'-0" test bars.)											
133	10	10	45-0	1P1002	STR												
134																	
135																	
136	85	5	13-5	1P502	T1	0-5½	2-6	3-9	2-6	3-9		0-5½					
137	34		12-0	1P503	T5	0-5½	2-4	3-11	2-4	2-6		0-5½				1-3	
138	2		11-6	1P504	17		4-6	2-6	4-6								
139				THRU					VARY B & D IN 4 EQUAL INCREMENTS								
140	2		27-6	1P508	17		12-6	2-6	12-6								
141	8		33-5	1P509	10	14-9	3-11	14-9								1-3	
142	2		24-1	1P510	T1	0-5½	2-6	9-1	2-6	9-1		0-5½					
143				THRU			VARY C & E IN 22 EQUAL INCREMENTS										
144	2		14-10	1P532	T1	0-5½	2-6	4-6	2-6	4-6		0-5½					
145	6	5	18-6	1P533	19		4-0	14-6					3-7		1-9		
146																	
* 147	34	6	14-0	1P601	17		4-3	5-6	4-3	(includes 3 extra bars for 3-4'-0" test bars)							
148																	
149	39	8	13-4	1P801	1	0-11	11-6					0-11					
150																	
151	102	9	11-3	1P901	17		9-3	2-0									
152																	
153																	
154				PIER #2													
155																	
156	6	5	29-6	2P501	STR												
157																	
158	39	6	11-6	2P602													
159																	
160	12	7	37-6	2P701	STR												

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
161	102	9	16-3	2P902	STR												
162	102		17-3	2P903													
163	102	9	8-11	2P904													
164																	
165	12	10	37-6	2P1001													
166	10	10	45-0	2P1002	STR												
167																	
168																	
169	80	5	13-5	2P502	T1	0-5½	2-6	3-9	2-6	3-9		0-5½					
170	32		12-0	2P503	T5	0-5½	2-4	3-11	2-4	2-6		0-5½				1-3	
171	2		11-6	2P504	17		4-6	2-6	4-6								
172				THRU				VARY B & D IN 4 EQUAL INCREMENTS									
173	2		27-6	2P508	17		12-6	2-6	12-6								
174	8		33-5	2P509	10	14-9	3-11	14-9									
175	2		24-1	2P510	T1	0-5½	2-6	9-1	2-6	9-1		0-5½					
176				THRU				VARY C & E IN 22 EQUAL INCREMENTS									
177	2		14-10	2P532	T1	0-5½	2-6	4-6	2-6	4-6		0-5½					
178	6	5	18-6	2P533	19		4-0	14-6					3-7		1-9		
179																	
* 180	34	6	14-0	2P601	17		4-3	5-6	4-3	(includes 3 extra bars for 3-4'-0" test bars)							

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-S1), GRADE 60, OR GRADE 40 AS NOTED.
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 EXTRA BAR(S) ADDED FOR TESTING PURPOSES.

REV. NO.	MADE BY	DATE	DESCRIPTION

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF RUTLAND — BRIDGE NO. 5 — LOG STA.

HIGHWAY NO. U.S. RTE. # 4 — SURV. STA. EB-931+25 WB-930+51

U.S. RTE. #4 OVER DORR DRIVE

REINFORCING STEEL SCHEDULE

DESIGNED BY J.B. McCARTHY — DRAWN BY J.B. McCARTHY

CHECKED BY D. NEWTON — BRIDGE DESIGN SUPERVISOR

DATE 9/83 — F.W. Bolkum DATE 12/83

PROJECT WEST RUTLAND-RUTLAND — PROJECT NO. F-EGC-F-020-1(10)

BRIDGE SHEET NO. BR522 SHEET 112 OF 459

BRUNING 44-131 40151

BR-5