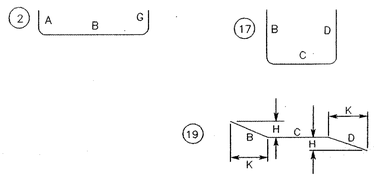
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
			BRIDG NO. 1 – ABUTMENT NO. 1														
1	11	5	14'–0"	1A1				STRAIGHT				SPLICE WITH 1W1L BARS					
2	15	5	9'–6"	1A2				STRAIGHT									
3	21	5	6'–5"	1A3				STRAIGHT				SPLICE WITH 1W3L BARS					
4	7	5	14'–0"	1A4				STRAIGHT									
5	15	7	6'–11"	1A6				STRAIGHT									
6	15	5	4'–6"	1A7				STRAIGHT									
7	15	6	6'–3"	1A8				STRAIGHT									
8	14	5	13'–8"	1A9				STRAIGHT									
9	15	5	4'–10"	1A10	2	2'–2"	2'–8"					NONE					
10	3	6	13'–8"	1A11				STRAIGHT									
11	15	5	2'–10"	1A12				STRAIGHT									
12	4	5	13'–8"	1A13				STRAIGHT									
13	30	6	6'–0"	1A14				STRAIGHT									
14	15	4	2'–6"	1A15	2	11"	8"					11"					
15	8	5	5'–3"	1A16	2	1'–0"	4'–3"					NONE					
16																	
17																	
18																	
19			**BRIDGE NO.1 – ABUTMENT NO.1 – WINGWALL RIGHT**														
20	11	5	2'–10"	1W1R				STRAIGHT				SPLICE WITH 1A1 BARS					
21	9	5	9'–6"	1W2R				STRAIGHT									
22	8	5	7'–9"	1W3R				STRAIGHT				SPLICE WITH 1A3 BARS					
23	9	7	6'–11"	1W4R				STRAIGHT									
24	9	6	7'–3"	1W6R				STRAIGHT									
25	9	5	4'–6"	1W7R				STRAIGHT									
26	9	6	4'–10"	1W8R				STRAIGHT									
27	12	5	7'–10"	1W9R				STRAIGHT									
28	9	4	4'–6"	1W11R	2	1'–2"	2'–2"					1'–2"					
29	9	5	7'–4"	1W12R	17		5'–10"	1'–6"				NONE					
30																	
31																	
32																	
33																	
34			**BRIDGE NO.1 – ABUTMENT NO.1 – WINGWALL LEFT**														
35	11	5	7'–10"	1W1L				STRAIGHT				SPLICE WITH 1A1 BARS					
36	9	5	9'–6"	1W2L				STRAIGHT									
37	8	5	7'–0"	1W3L				STRAIGHT				SPLICE WITH 1A3 BARS					
38	9	7	6'–11"	1W4L				STRAIGHT									
39	9	6	7'–3"	1W6L				STRAIGHT									
40	9	5	4'–6"	1W7L				STRAIGHT									
41	9	6	4'–10"	1W8L				STRAIGHT									
42	12	5	7'–10"	1W9L				STRAIGHT									
43	9	4	4'–6"	1W11L	2	1'–2"	2'–2"					1'–2"					
44	9	5	7'–4"	1W12L	17		5'–10"	1'–6"				NONE					
45																	
46																	
47																	
48			**BRIDGE NO.1 – ABUTMENT NO.2**														
49	11	5	14'–0"	2A1				STRAIGHT				SPLICE WITH 1W1L BARS					
50	15	5	9'–6"	2A2				STRAIGHT									
51	15	6	6'–5"	2A3				STRAIGHT				SPLICE WITH 1W3L BARS					
52	7	5	14'–0"	2A4				STRAIGHT									
53	15	6	6'–11"	2A6				STRAIGHT									
54	15	5	4'–10"	2A7				STRAIGHT									
55	15	6	3'–3"	2A8				STRAIGHT									
56	16	5	13'–8"	2A9				STRAIGHT				SPLICE WITH 2A14 BARS					
57	15	5	4'–10"	2A10	2	2'–2"	2'–8"					NONE					
58	3	6	13'–8"	2A11				STRAIGHT									
59	15	5	3'–1"	2A12				STRAIGHT									
60	4	5	13'–8"	2A13				STRAIGHT									
61	30	6	6'–0"	2A14	19		3'–0"	3'–0"									
62	15	4	2'–6"	2A15	2	11"	8"					11"					
63	15	5	5'–3"	2A16	2	1'–0"	4'–3"					NONE					
64																	
65																	
66			**BRIDGE NO.1 – ABUTMENT NO.2 – WINGWALL RIGHT**														
67	11	5	12'–4"	2W1R				STRAIGHT				SPLICE WITH 2A1 BARS					
68	11	5	9'–6"	2W2R	▲			STRAIGHT									
69	8	5	9'–9"	2W3R				STRAIGHT				SPLICE WITH 2A3 BARS					
70	11	7	6'–11"	2W4R				STRAIGHT									
71	11	6	6'–11"	2W6R				STRAIGHT									
72	11	5	6'–0"	2W7R	▲			STRAIGHT									
73	11	6	6'–4"	2W8R	▲			STRAIGHT									
73	6	5	12'–1"	2W9R	▲			STRAIGHT									
74	2	5	12'–1"	2W10R	▲			STRAIGHT									
75	11	4	5'–3"	2W11R	2	1'–2"	2'–2"					1'–2"					
76	7	5	7'–4"	2W12R													
77																	
78																	
79																	
80																	
81																	
82																	

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
			BRIDGE NO.1 – ABUTMENT NO.2 – WINGWALL LEFT														
83	11	5	9'–9"	2W1L				STRAIGHT				SPLICE WITH 2A1 BARS					
84	11	5	9'–6"	2W2L				STRAIGHT									
85	8	5	9'–9"	2W3L				STRAIGHT				SPLICE WITH 2A3 BARS					
86	11	7	6'–11"	2W4L				STRAIGHT									
87	11	6	6'–11"	2W6L				STRAIGHT									
88	11	5	4'–10"	2W7L	▲			STRAIGHT									
89	11	6	5'–3"	2W8L	▲			STRAIGHT				SPLICE WITH 2A14 BARS					
90	15	5	9'–8"	2W9L				STRAIGHT									
91	2	5	9'–8"	2W10L				STRAIGHT									
92	11	4	4'–6"	2W11L	2	1'–2"	2'–2"					1'–2"					
93	7	5	7'–4"	2W12L	17		5'–10"	1'–6"				NONE					
94																	
95			**BRIDGE NO.2 – ABUTMENT NO.1**														
96	11	5	16'–4"	3A1				STRAIGHT				SPLICE WITH 3W1L BARS					
97	17	5	9'–6"	3A2				STRAIGHT									
98	26	6	6'–5"	3A3				STRAIGHT				SPLICE WITH 3W3L BARS					
99	7	5	16'–4"	3A4				STRAIGHT									
100	15	6	6'–11"	3A6				STRAIGHT									
101	15	5	5'–9"	3A7				STRAIGHT									
102	15	6	8'–2"	3A8				STRAIGHT									
103	15	5	13'–9"	3A9				STRAIGHT									
104	15	5	4'–10"	3A10	2	2'–2"	2'–8"					NONE					
105	3	6	13'–9"	3A11				STRAIGHT									
106	15	5	3'–7"	3A12				STRAIGHT									
107	4	5	13'–9"	3A13				STRAIGHT									
108	16	6	6'–0"	3A14	19		3'–0"	3'–0"	NONE				0'–5"		NONE		
109	15	4	4'–0"	3A15	2	1'–8"	8"					1'–8"					
110	8	6	6'–0"	3A16	2	3'–0"	3'–0"					NONE					
111	15	5	6'–11"	3A17	17		5'–11"	1'–0"				NONE					
112	7	6	9'–0"	3A18	2	5'–10"	3'–0"					NONE					
113																	
114			**BRIDGE NO.2 – ABUTMENT NO.1 – WINGWALL RIGHT**														
115	11	5	10'–1"	3W1R				STRAIGHT						SPLICE WITH 3A2 BARS			
116	9	5	9'–6"	3W2R				STRAIGHT									
117	8	5	10'–1"	3W3R	▲			STRAIGHT						SPLICE WITH 3A3 BARS			
118	9	7	7'–7"	3W4R				STRAIGHT									
119	14	6	6'–11"	3W6R				STRAIGHT									
120	14	5	7'–10"	3W7R	▲			STRAIGHT									
121	14	6	8'–2"	3W8R	▲			STRAIGHT									
122	18	5	12'–8"	3W9R	▲			STRAIGHT									
123	14	4	3'–3"	3W11R	2	1'–2"	0'–11"					1'–2"					
124	2	5	12'–8"	3W12R				STRAIGHT									
125	14	5	6'–10"	3W13R	2	1'–0"	5'–10"					NONE					
126			**BRIDGE NO.2 – ABUTMENT NO.1 – WINGWALL LEFT**														
127	10	5	6'–9"	3W1L	19	▲	2'–0"	4'–9"					0'–3"		NONE		SPLICE WITH 3A1 BARS
128	6	5	9'–6"	3W2L				STRAIGHT									
129	8	5	6'–9"	3W3L	19	▲	2'–0"	4'–9"					0'–3"		NONE		SPLICE WITH 3A4 BARS
130	10	7	6'–11"	3W4L				STRAIGHT									
131	9	6	6'–11"	3W6L				STRAIGHT									
132	6	5	7'–8"	3W7L	▲			STRAIGHT									
133	6	6	8'–0"	3W8L	▲			STRAIGHT									
134	18	5	4'–9"	3W9L	▲			STRAIGHT									
135	6	4	3'–3"	3W11L	2	1'–2"	0'–11"					1'–2"					
136	2	5	4'–9"	3W12L				STRAIGHT									
137	6	5	7'–4"	3W13L	17		5'–10"	1'–6"				NONE					
138			**BRIDGE NO.2 – ABUTMENT NO.2**														
139	11	5	14'–1"	4A1				STRAIGHT				SPLICE WITH 4W1 BARS					
140	15	5	9'–6"	4A2				STRAIGHT									
141	22	6	6'–5"	4A3				STRAIGHT				SPLICE WITH 4W3 BARS					
142	8	5	14'–1"	4A4				STRAIGHT									
143	15	6	6'–11"	4A6				STRAIGHT									
144	15	5	7'–4"	4A7				STRAIGHT									
145	15	6	9'–9"	4A8				STRAIGHT									
146	17	5	13'–9"	4A9				STRAIGHT				SPLICE WITH 4A14 BARS					
147	15	5	4'–10"	4A10	2	2'–2"	2'–8"					NONE					
148	3	6	13'–9"	4A11				STRAIGHT									
149	15	5	3'–7"	4A12				STRAIGHT									
150	6	5	13'–9"	4A13				STRAIGHT									
151	17	6	6'–0"	4A14	19		3'–0"	3'–0"					1'–3"		NONE		
152	15	4	4'–0"	4A15	2	1'–8"	8"					1'–8"					
153	17	6	6'–0"	4A16				STRAIGHT									
154	15	5	5'–3"	4A18	17		4'–3"	1'–0"				NONE					
155																	
156																	
157																	
158																	
159																	
160																	
161																	
162																	
163																	
164																	
165																	

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
			BRIDGE NO.2 – ABUTMENT NO.2 – WINGWALL LEFT														
166	11	5	12'–10"	4W1L				STRAIGHT				SPLICE WITH 4A1 BARS					
167	12	5	9'–6"	4W2L				STRAIGHT									
168	11	5	12'–9"	4W3L				STRAIGHT				SPLICE WITH 4A3 BARS					
169	12	7	6'–11"	4W4L				STRAIGHT									
170	12	6	6'–11"	4W6L				STRAIGHT									
171	12	5	9'–5"	4W7L	▲			STRAIGHT									
172	12	6	9'–9"	4W8L	▲			STRAIGHT									
173	11	5	10'–9"	4W9L				STRAIGHT									
174	2	5	10'–9"	4W10L				STRAIGHT									
175	12	4	3'–1"	4W11L	2	1'–2"	0'–11"						1'–2"				
176	12	5	7'–4"	4W12L	2	1'–6"	5'–10"						NONE				
177																	
178			**BRIDGE NO.2 – ABUTMENT NO.2 – WINGWALL RIGHT**														
179	11	5	14'–6"	4W1R	19	▲	2'–0"	12'–6"	SPLICE WITH 4A1 BARS				0'–10"		NONE		
180	12	5	9'–6"	4W2R				STRAIGHT									
181	8	5	13'–6"	4W3R	19	▲	2'–0"	12'–6"	SPLICE WITH 4A3 BARS				0'–10"		NONE		
182	13	7	6'–9"	4W4R				STRAIGHT									
183	12	6	6'–11"	4W6R				STRAIGHT									
184	13	5	9'–6"	4W7R	▲			STRAIGHT									
185	12	6	9'–9"	4W8R	▲			STRAIGHT									
186	19	5	11'–4"	4W9R				STRAIGHT									
187	2	5	11'–4"	4W10R				STRAIGHT									
188	13	4	2'–6"	4W11R	2	1'–2"	0'–11"						1'–2"				
189	13	5	7'–4"	4W12R	17		5'–10"	1'–6"					NONE				
190																	

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). ALL BARS SHALL BE GRADE 60, UNLESS OTHERWISE DESIGNATED.
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 DIMENSION OR QUANTITY THAT MAY CHANGE DUE TO DELIVERED BRIDGE DIMENSIONS.
♣ DENOTES BARS TO BE CUT IN FIELD.
* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
△ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.

FILE: 6829BRID

ASTM STANDARD REINFORCING BARS

BAR SIZE DESIG-NATION	WEIGHT POUNDS PER FOOT	NOMINAL DIMENSIONS ROUND SECTION		
		DIAMETER INCHES	CROSS SEC-TIONAL AREA SQ. INCHES	PERIMETER INCHES
#3	.375	.375	.11	1.178
#4	.668	.500	.20	1.571
#5	1.043	.625	.31	1.963
#6	1.502	.750	.44	2.355
#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	1.55	4.430
#14	7.65	1.693	2.25	5.32
#18	13.60	2.257	4.00	7.09

REV. NO.	MADE BY	DATE	DESCRIPTION
2	DFH	3/2/98	CHANGED BARS: 3A1, 3A2, 3A3, 3A4, 3A7, 3A9, 3A11, 3A12, 3A13, 3A14, 3A15, 3A16, 3A17, 3A18 4A1, 4A4, 4A6, 4A7, 4A9, 4A11, 4A12, 4A13, 4A14, 4A15, 4A16
1	DFH	1/7/98	CHANGED BARS: 3A1, 3A4, 3A7, 3A8, 3A14, 3A18, 3W1R, 3W2R, 3W3R, 3W11R 3W1L, 3W3L, 4A14, 4A16, 4W6L, 4W12L, 4W1R, 4W3R

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF MONTPELIER	BRIDGE NO.
	LOG STA.
HIGHWAY NO.	SURV. STA.

REINFORCING STEEL SCHEDULE

DESIGNED BY:	DRAWN BY:
CHECKED BY:	BRIDGE DESIGN SUPERVISOR
DATE:	DATE:
PROJECT WINOOSKI RIVER WEST BIKE PATH	PROJECT NO. 6829
BRIDGE SHEET NO.	SHEET 53 OF 132