ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
1						APPROACH SLABS (epoxy coated)											
✱ 2	43	5	19 - 6	CAS900	STR												
✱ 3	75	9	22 - 0	CAS900	1	1 - 3	19 - 6					0 - 0		1 - 0			
4																	
5						SUPERSTRUCTURE (epoxy coated)											
✱ 6	533	5	21 - 8	ES300	STR												
7	82	5	6 - 3	ES301	55	0 - 10	1 - 6	1 - 7	1 - 11			0 - 10					
8	244	5	7 - 5	ES302	2	0 - 6	6 - 11										
9	164	5	3 - 0	ES303	8	0 - 10	1 - 4					0 - 10					
10	62	5	5 - 4	ES304	16	0 - 10	3 - 7	0 - 8	2 - 3								
11	56	5	9 - 1	ES305	55	0 - 6	3 - 9	0 - 7	3 - 9			0 - 6					
12	36	5	4 - 3	ES306	2	0 - 6	3 - 9										
13	8	5	4 - 10	ES307	STR												
14	18	5	4 - 6	ES308	2	2 - 0	0 - 6					2 - 0					
15	4	5	5 - 9	ES309	13												
16	8	5	14 - 9	ES310	STR												
17	8	5	27 - 0	ES311	STR												
18	48	5	6 - 3	ES312	STR												
19	2	5	3 - 9	ES313	8	1 - 3	1 - 3					1 - 3					
20	6	5	29 - 6	ES314	STR												
21																	
22	162	6	30 - 6	ES900	STR												
✱ 23	163	6	9 - 3	ES901	STR												
24	162	6	29 - 0	ES902	STR												
25	162	6	10 - 6	ES903	STR												
26																	
✱ 27	33	6	2 - 4	FS900	14	1 - 6	0 - 10	0 - 9	0 - 0	0 - 0			0 - 7				0 - 0
28																	
29																	
30																	
31																	
32						ABUTMENT 1											
33	44	5	5 - 7	1A500	2	0 - 10	4 - 9					0 - 0					
✱ 34	45	5	14 - 5	1A501	STR												
35	41	5	6 - 1	1A502	2	2 - 0	2 - 1					2 - 0					
36	16	5	5 - 11	1A503	2	2 - 0	1 - 11					2 - 0					
37	34	5	29 - 6	1A504	STR												
38	34	5	18 - 10	1A505	STR												
39	52	5	7 - 0	1A506	14	5 - 0	2 - 0	0 - 0	0 - 0	0 - 0			1 - 5				0 - 0
40																	
✱ 41	27	5	30 - 0	1A600	STR												
42	26	5	20 - 0	1A601	STR												
43	41	5	6 - 3	1A602	STR												
44	42	5	12 - 6	1A603	STR												
45																	
✱ 46	68	7	11 - 4	1A700	STR												
47	44	7	13 - 0	1A701	1	0 - 10	11 - 4					0 - 10		0 - 7			
48																	
✱ 49	84	8	8 - 9	1A800	2	1 - 3	7 - 6					0 - 0					
50																	
51						WINGWALL 1											
52	6	5	5 - 7	1W500	2	0 - 10	4 - 9					0 - 0					
✱ 53	7	5	19 - 6	1W501	STR												
54	5	5	6 - 1	1W502	2	2 - 0	2 - 1					2 - 0					
55	16	5	13 - 11	1W503	16	4 - 11	2 - 1	4 - 11	2 - 0				1 - 5		1 - 5		
56	5	5	7 - 9	1W504	16	0 - 0	2 - 1	4 - 11	0 - 9				0 6.375		0 6.375		
57	5	5	6 - 1	1W505	19		0 - 0	4 - 0					1 - 6		1 - 6		5 - 6
58																	
✱ 59	23	6	9 - 6	1W600	STR												
60	8	6	17 - 3	1W601	STR												
61	3	6	7 - 6	1W602	STR												
62																	
▲✱ 63	14	7	9 - 6	1W700	STR												
▲ 64	8	7	11 - 2	1W701	1	0 - 1	9 - 6					0 - 10		0 - 7			
65																	
✱ 66	9	8	8 - 9	1W800	2	1 - 3	7 - 6					0 - 0					
67																	
68						WINGWALL 2											
69	6	5	4 - 8	2W550	S10		2 - 1	0 - 8	2 - 1								
70																	
71	6	6	7 - 6	2W600	STR												
72																	
73																	
74																	
75																	
76																	
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						ABUTMENT 2											
83	55	5	5 - 7	2A500	2	0 - 10	4 - 9					0 - 0					
84	55	5	13 - 9	2A501	STR												
85	45	5	6 - 1	2A502	2	2 - 0	2 - 1					2 - 0					
86	32	5	21 - 6	2A503	STR												
87	32	5	24 - 3	2A504	STR												
88																	
89	26	6	34 - 0	2A600	STR												
90	26	6	26 - 6	2A601	STR												
✱ 91	54	6	6 - 3	2A602	STR												
92	52	6	11 - 9	2A603	STR												
93																	
▲✱ 94	136	7	11 - 4	2A700	STR												
▲ 95	68	7	13 - 0	2A701	1	0 - 10	11 - 4					0 - 10		0 - 7			
96																	
✱ 97	108	8	8 - 9	2A800	2	1 - 3	7 - 6					0 - 0					
98																	
99																	
100						WINGWALL 3											
101	25	5	6 - 1	3W500	2	2 - 0	2 - 1					2 - 0					
102	15	5	5 - 1	3W501	2	3 - 1	2 - 0										
103	30	5	12 - 0	3W502	STR												
104	16	5	4 - 9	3W503	STR												
✱ 105	15	5	5 - 0	3W504	STR												
106	22	5	8 - 4	3W505	STR												
107	8	5	10 - 4	3W506	STR												
0 - 0 108	10	5	6 - 0	3W507	2	2 - 0	2 - 8					2 - 0					
▲ 109	18	5	6 - 7	3W508	2	1 - 0	5 - 7					0 - 0					
110																	
111	12	6	10 - 6	3W600	STR												
112																	
113																	
114						WINGWALL 4											
115	9	5	5 - 7	4W500	2	0 - 10	4 - 8										
✱ 116	10	5	19 - 0	4W501	STR												
117	30	5	7 - 0	4W502	14	5 - 0	2 - 0	0 - 0	0 - 0	0 - 0			1 - 5				0 - 0
▲ 118	30	5	12 - 6	4W503	14	10 - 0	2 - 6	0 - 0	0 - 0	0 - 0			1 - 9				0 - 0
119	3	5	7 - 6	4W504	STR												
0 - 0 120	10	5	17 - 6	4W505	14	0 - 0	2 - 6	7 - 6	2 - 6				1 - 9				11 - 0
121	11	5	5 - 10	4W506	2	2 - 1	3 - 9										
122	2	5	4 - 1	4W507	2	1 - 0	2 - 1	1 - 0									
123	6	5	6 - 1	4W508	2	2 - 0	2 - 1					2 - 0					
124																	
✱ 125	21	6	17 - 0	4W600	STR												
126	12	6	17 - 0	4W601	STR												
127																	
128	16	7	12 - 0	4W700	STR												
129																	
130	12	8	8 - 9	4W800	2	1 - 3	7 - 6					0 - 0					
131																	
132																	
133	50					RETAINING WALL											
134	~~26~~	5	13 - 0	RW500	STR												
▲ 135	50	5	5 - 6	RW501	STR												
✱ 136	51	5	4 - 10	RW502	2	0 - 10	4 - 0					0 - 0					
▲ 137	50	5	6 - 3	RW503	STR												
138	2	5	23 - 10	RW504	14	2 - 10	21 - 0	0 - 0	0 - 0				20 - 10				
139																	
140																	
141																	
142																	
143																	
144																	
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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																	
171																	
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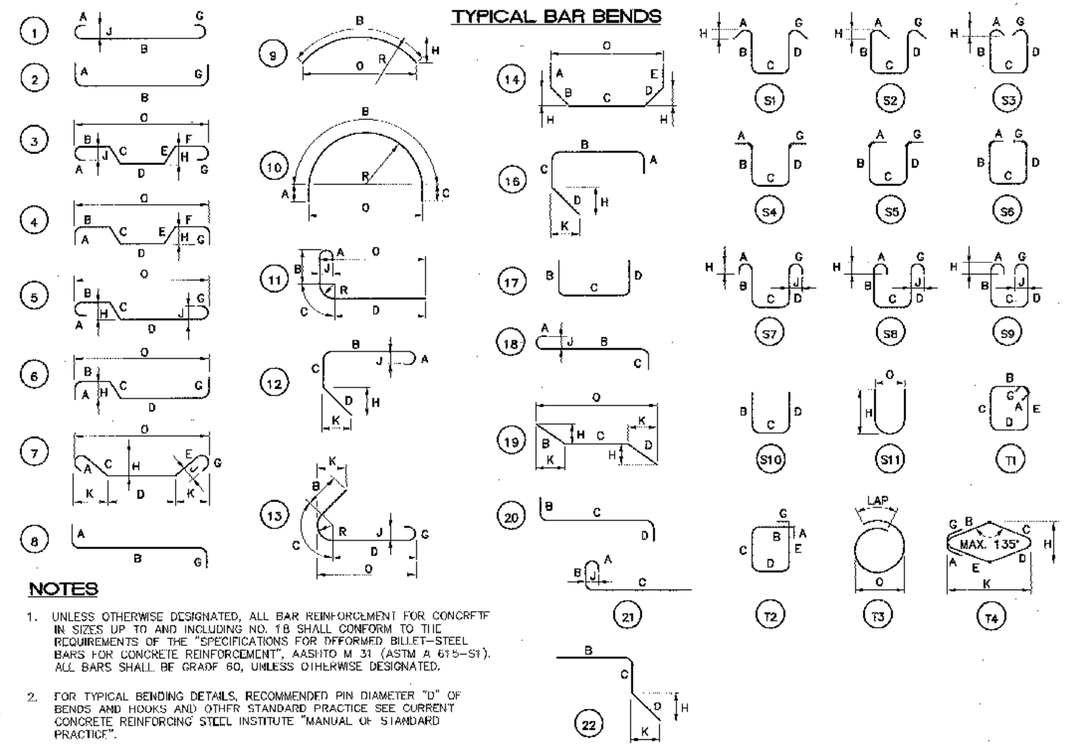
181																	
182																	
183																	

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	0.376	0.375	0.11	1.178
#4	0.668	0.500	0.20	1.571
#5	1.043	0.625	0.31	1.963
#6	1.502	0.750	0.44	2.356
#7	2.044	0.875	0.60	2.749
#8	2.670	1.000	0.79	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	7.650	1.693	2.25	5.320
#18	13.60	2.257	4.00	7.090

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 615-91). 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 BARS TO BE CUT IN FIELD.
✱ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
△ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.

BETTIGOLE ANDREWS & CLARK, INC.
Consulting Engineers

STATE OF VERMONT
AGENCY OF TRANSPORTATION

CITY OF BARRE	BRIDGE NO. B-10
	LOC. STA.
STREET NAME BLACKWELL STREET	SURV. STA.
BLACKWELL STREET OVER STEVENS BRANCH	
REINFORCING STEEL SCHEDULE	
DESIGNED BY V DeAngelo	DRAWN BY S Belanger
CHECKED BY J Patusky DATE 12/98	BRIDGE DESIGN SUPERVISOR J Patusky DATE 12/98
PROJECT BARRE CITY	PROJECT NO. BRM 6000(19)
B&C DRAWING NO. GLKREBAR	DATE 12/98
BRIDGE SHEET NO. BR120	SHEET 33 OF 46