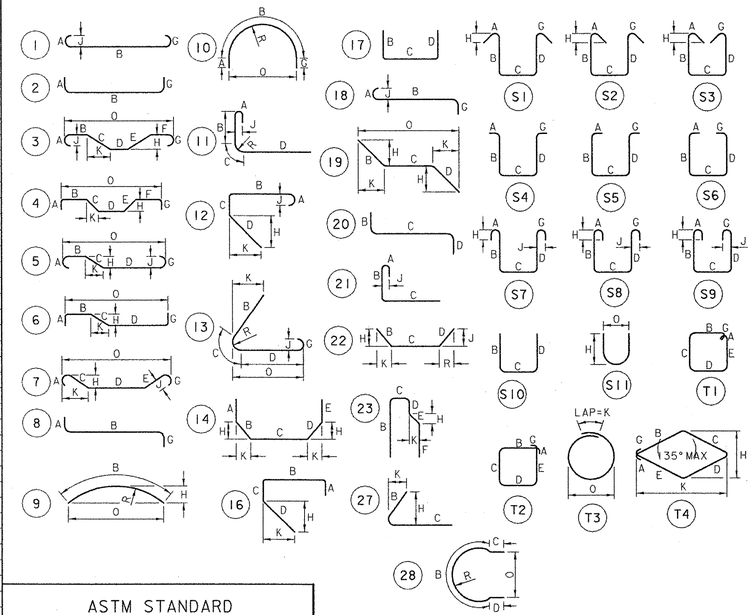
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
1								DECK OVERLAY									
2	150	4	40'-2"	ES401	STR												
3 ✳	151	4	28'-8"	ES402	STR												
4 ▲✳	204	4	37'-0"	ES403	STR												
5 ▲	32	4	39'-5"	ES404	STR												
6	150	4	40'-0"	ES409	STR												
7																	
8																	
9	148	4	5'-8"	ES405	17		2'-2"	3'-6"	—								
10	74	4	5'-1"	ES406	17		2'-2"	0'-9"	2'-2"								
11	74	4	2'-6"	ES407	2	0'-4"	2'-2"					—					
12	74	4	5'-8"	ES408	17		2'-2"	3'-6"	—								
13																	
14																	
15	55	5	43'-0"	ES503	STR												
16																	
17																	
18 ✳	204	5	10'-4"	ES501	S5	0'-10"	0'-9"	7'-2"	0'-9"			0'-10"					
19	203	5	4'-8"	ES502	S5	0'-10"	0'-9"	1'-6"	0'-9"			0'-10"					
20	32	5	5'-1"	ES504	S6	0'-5"	2'-1"	0'-9"	1'-10"			—					
21	8	5	10'-7"	ES505	4	—	3'-1"	1'-5"	1'-7"	1'-5"	3'-1"	—	1'-0"			1'-0"		9'-9"
22 ✳	9	5	9'-5"	ES506	4	—	3'-1"	0'-10"	1'-7"	0'-10"	3'-1"	—	0'-7"			0'-7"		8'-11"
23																	
24																	
25								ABUTMENT 1									
26	3	5	45'-8"	1A502	STR												
27	1	5	2'-0"	1A507	STR												
28	2	5	2'-10"	1A509	STR												
29																	
30																	
31	22	5	2'-6"	1A501	17		0'-10"	1'-8"	—								
32	45	5	2'-9"	1A503	17		0'-6"	1'-9	0'-6"								
33	5	5	4'-2"	1A504	17		1'-0"	3'-2"	—								
34 ▲✳	6	5	8'-5"	1A505	17		3'-4"	1'-9"	3'-4"								
35 ✳	4	5	7'-9"	1A506	17		3'-5"	1'-9"	2'-7"								
36 ▲	3	5	3'-10"	1A508	22		2'-9"	1'-1"	—				1'-3"	—	2'-6"	—	
37	2	5	5'-7"	1A510	17		1'-0"	4'-7"	—								
38 ▲	7	5	5'-11"	1A511	17		2'-6"	1'-9"	1'-8"								
39 ▲	4	5	13'-5"	1A512	17		5'-10"	1'-9	5'-10"								
40	1	5	7'-11"	1A513	17		2'-1"	5'-10"	—								
41																	
42																	
43								ABUTMENT 2									
44	3	5	43'-8"	2A502	STR												
45																	
46																	
47	22	5	2'-8"	2A501	17		0'-10"	1'-10"	—								
48	45	5	2'-9"	2A503	17		0'-6"	1'-9	0'-6"								
49	6	5	5'-8"	2A504	17		4'-8"	1'-0"	—								
50 ✳	3	5	8'-9"	2A505	17		3'-6"	1'-9"	3'-6"								
51	5	5	3'-3"	2A506	17		1'-2"	1'-9"	0'-4"								
52	1	5	4'-3"	2A507	17		3'-6"	0'-9"	—								
53 ✳	5	5	8'-5"	2A508	17		3'-4"	1'-9"	3'-4"								
54	5	5	6'-7"	2A509	17		2'-0"	1'-9"	2'-10"								
55	1	5	5'-9"	2A510	17		3'-4"	2'-5"	—								
56																	
57																	
58								PIER 1									
59 ✳	23	5	19'-7"	1P501	STR												
60 ▲	4	5	43'-4"	1P502	STR												
61 ✳	36	5	26'-7"	1P505	STR												
62 ▲	12	5	8'-6"	1P510	STR												
63																	
64	32	5	7'-4"	1P503	17		1'-7"	4'-2"	1'-7"								
65	64	5	7'-10"	1P504	6	—	4'-6"	1'-2"	2'-2"			—	0'-10"		0-10"		7'-6"
66	22	5	19'-0"	1P506	28		14'-8"	2'-2"	2'-2"							2'-9"	2'-6"
67	22	5	25'-4"	1P507	28		21'-0"	2'-2"	2'-2"							3'-9"	2'-6"
68	6	5	16'-11"	1P508	28		12'-7"	2'-2"	2'-2"							2'-9"	4'-2"
69	6	5	23'-6"	1P509	28		19'-2"	2'-2"	2'-2"							3'-9"	4'-2"
70																	
71																	
72																	
73																	
74								PIER 2									
75 ✳	23	5	17'-10"	2P501	STR												
76 ▲	4	5	43'-4"	2P502	STR												
77 ✳	36	5	24'-10"	2P505	STR												
78 ▲	12	5	8'-6"	2P510	STR												
79																	
80	32	5	7'-4"	2P503	17		1'-7"	4'-2"	1'-7"								
81	64	5	7'-10"	2P504	6	—	4'-6"	1'-2"	2'-2"			—	0'-10"		0-10"		7'-6"
82	20	5	19'-0"	2P506	28		14'-8"	2'-2"	2'-2"							2'-9"	2'-6"
83	20	5	25'-4"	2P507	28		21'-0"	2'-2"	2'-2"							3'-9"	2'-6"
84	6	5	16'-11"	2P508	28		12'-7"	2'-2"	2'-2"							2'-9"	4'-2"
85	6	5	23'-6"	2P509	28		19'-2"	2'-2"	2'-2"							3'-9"	4'-2"
86																	
87																	
88																	
89																	
90																	
91																	
92																	
93																	
94																	
95																	
96																	

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
97																	
98																	
99																	
100																	
101																	
102																	
103																	
104																	
105																	
106																	
107																	
108																	
109																	
110																	
111																	
112																	
113																	
114																	
115																	
116																	
117																	
118																	
119																	
120																	
121																	
122																	
123																	
124																	
125																	
126																	
127																	
128																	
129																	
130																	
131																	
132																	
133																	
134																	
135																	
136																	
137																	
138																	
139																	
140																	
141																	
142																	
143																	
144																	
145																	
146																	
147																	
148																	
149																	
150																	
151																	
152																	
153																	
154																	
155																	
156																	
157																	
158																	
159																	
160																	
161																	
162																	
163																	
164																	
165																	
166																	
167																	
168																	
169																	
170																	
171																	
172																	
173																	
174																	
175																	
176																	
177																	
178																	
179																	
180																	
181																	
182																	
183																	
184																	
185																	
186																	
187																	
188																	
189																	
190																	

NOTES

1. UNLESS OTHERWISE DESIGNATED, ALL BAR REINFORCEMENT FOR CONCRETE IN SIZES UP TO AND INCLUDING NO. 18 SHALL CONFORM TO THE REQUIREMENT OF THE "SPECIFICATIONS FOR DEFORMED BILLET-STEEL BARS FOR CONCRETE REINFORCEMENT", AASHTO M 31 (ASTM A 615-SI). 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 DEGREE AND 135 DEGREE HOOKS.
5. "J" DIMENSION ON 180 DEGREE HOOKS ARE TO BE SHOWN ONLY WHEN NECESSARY TO RESTRICT HOOK SIZE. OTHERWISE, STANDARD HOOKS ARE TO BE USED.
6. "H" DIMENSION ON STIRRUPS ARE TO BE SHOWN ONLY WHEN NECCESSARY TO MAINTAIN CLEARANCES.
7. WHERE SLOPE DIFFERS FROM 45 DEGREES, DIMENSIONS "H" AND "K" MUST BE SHOWN.
8. ▲ DENOTES BARS TO BE CUT IN FIELD.
9. ✳ DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
10. △ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.
11. "E" IN PREFIX DENOTES EPOXY COATED REINFORCING STEEL.



ASTM STANDARD REINFORCING BARS

BAR SIZE DESIGNATION	NOMINAL MASS lbs/ft	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	13.600	2.257	4.00	7.090

VHB ***Vanasse Hangen Brustlin, Inc.***

STATE OF VERMONT
AGENCY OF TRANSPORTATION

Town Of WOODSTOCK	Bridge No. 50
	Log Sta.
Highway No. U.S. ROUTE 4	Surv. Sta.

U.S. ROUTE 4 OVER OTTAUQUECHEE RIVER

REINFORCING STEEL SCHEDULE

Designed By L.S. GARDNER	Drawn By B.J. MASSE
Checked By J.T. KLEIN Date 9/06	Bridge Design Supervisor M.A. COLGAN Date 9/06
PROJECT WOODSTOCK	PROJECT NO. BHF 020-2 (32)
I.G.C. Info.	
Bridge Sheet No. ZJ028RS	Sheet 50 of 71

VHB NO. 51298

plot date: 9/14/2006