ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
				ABUTMENT 2 CONTINUED													
1																	
2	26	5	8-5	2A543	19		4-6	3-11	0-0				3-2		3-2		
3	14	5	9-2	E2A544	STR												
4	14	5	7-4	E2A545	17	*	0-0	0-9	6-7								
5																	
6	2	5	9-4	2A546	STR												
7	2	5	7-7	2A547	17		0-0	0-9	6-10								
8	6	5	18-1	E2A548	STR												
9	6	5	18-1	2A549	STR												
10	4	5	18-1	E2A550	STR												
11	2	5	2-6	2A551	STR												
12	24	5	5-3	2A555	17		0-0	2-0	3-3								
13	29	8	5-3	2A802	19	*	0-0	3-0	2-3				1-7⅛		1-7⅛		
14																	
15				WINGWALL 3													
16																	
17	4	11	26-8	2A1102	STR												
18																	
19	20	5	4-6	2A502	STR												
20	22	5	26-8	2A503	STR												
21	16	5	7-9	2A504	STR												
22	31	6	9-6	2A601	STR	*											
23	59	7	9-6	2A702	STR												
24	6	5	6-6	2A505	STR												
25	47	9	10-5	2A902	17		0-0	3-9	6-8								
26	20	5	20-11	3W501	STR												
27	24	9	25-5	3W901	STR												
28	24	9	10-0	3W902	STR	*											
29																	
30	14	5	19-2	3W502	STR												
31	28	5	21-5	3W503	STR												
32	21	5	7-7	3W504	STR	▲ *											
33	8	5	21-5	3W505	STR												
34	6	5	19-0	3W506	STR	▲											
35	52	5	5-9	3W507	17		2-0	1-9	2-0								
36	2	5	21-9	3W508	19		0-0	20-6	1-3				0-3		1-2¾		
37																	
38	4	11	31-6	3W1101	STR												
39	16	5	31-6	3W509	STR												
40	67	5	6-6	3W510	STR	*											
41	33	5	4-0	3W511	STR												
42																	
43	17	8	9-3	3W801	17		0-0	3-9	5-6								
44	16	8	12-3	3W802	17		0-0	3-9	8-6								
45	18	8	17-3	3W803	STR	▲ *											
46																	
47	33	5	17-3	3W512	STR	▲											
48	22	5	31-9	3W513	STR												
49	10	5	30-6	3W514	STR	▲											
50	2	5	32-2	3W515	STR												
51																	
52				WINGWALL 4													
53																	
54	4	11	10-6	4W1101	STR												
55	14	5	10-6	4W501	STR												
56	25	5	5-6	4W502	STR	*											
57	12	5	4-0	4W503	STR												
58																	
59	7	6	6-9	4W601	17	*	0-0	2-9	4-0								
60	5	6	9-9	4W602	17		0-0	2-9	7-0								
61	6	6	12-7	4W603	STR	▲											
62																	
63	12	5	12-7	4W504	STR	▲											
64	13	5	10-9	4W505	STR	*											
65	12	5	9-8	4W506	STR	▲											
66	12	5	4-9	4W507	17		2-0	0-9	2-0								
67	2	5	13-0	4W508	19		0-0	12-0	1-0				0-5		0-11		
68																	
69				PIER													
70																	
71	6	11	30-6	P1101	STR												
72	64	9	10-6	P901	STR	*											
73	19	9	30-6	P902	STR												
74	33	5	10-6	P501	STR	*											
75	15	8	30-6	P801	STR	*											
76	96	9	10-0	P903	17		0-0	1-7	8-5								
77																	
78																	
79	108	5	AVERAGE 12-2¾	P802	T1	0-8	2-6	AVERAGE 2-11⅞	2-6	AVERAGE 2-11⅞			0-8				
80	(DIM. "C" AND "E" VARY FROM 2-5¾" TO 3-5' (2 SETS OF 54 BARS))																

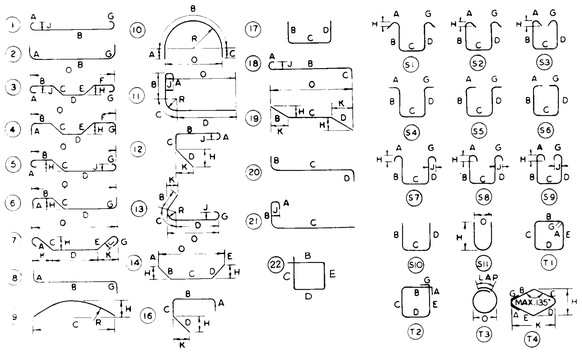
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
				PIER CONTINUED													
81																	
82																	
83	9	5	19-0	P503	14 *	4-6	10-0	4-6	0-0	0-0			3-6½			14-6	
84	24	5	22-2	P504	STR	▲											
85	12	5	7-0	P505	17		2-0	3-0	2-0								
86	44	5	3-0	P506	STR												
87	80	5	12-0	P507	S10	▲	4-9	2-6	4-9								
88	44	5	21-4	P508	T1	0-8	2-6	7-6	2-6	7-6		0-8					
89																	
90	10	8	22-4¼	P802	STR	*											
91																	
92	96	9	30-6	P904	STR	▲											
93	26	9	27-11	P905	17	*	4-6	23-5	0-0								
94	26	9	24-8	P906	1	1-3	23-5					0-0		0-11¾			
95																	
96																	
97																	
98																	
99																	
100																	
101																	
102																	
103																	
104				DECK SLAB													
105																	
106	558	6	39-9	ES601	STR	▲											
107	994	6	30-2	ES602	STR												
108	91	6	30-2	ES603	STR	▲ *											
109																	
110	279	5	39-3	ES501	STR	▲											
111	90	5	39-3	ES502	STR	▲											
112	649	5	5-3½	ES503	S5	0-10	1-3¾	1-0	1-3¾			0-10					
113																	
114	181	7	38-7	ES701	STR	*											
115																	
116	28	5	4-4	ES504	20		2-6	0-10	1-0								
117	28	5	5-4	ES505	22	0-0	1-4	1-4	1-4	1-4							
118	4	5	39-0	ES506	STR												
119	6	5	12-1	ES507	STR												
120	28	5	2-7	ES508	16	0-0	0-10	0-7	1-2			0-10		0-10			
121	7	5	8-0	ES509	STR	*											
122																	
123				APPROACH SLAB 1													
124																	
125	36	11	26-8½	1AS1101	1		24-6					1-7		0-7½			
126	26	5	38-10	1AS501	STR												
127																	
128				APPROACH SLAB 2													
129																	
130	37	10	22-5¾	2AS1001	1	▲ *	20-4¾					1-5		0-6			
131	22	5	26-2	2AS501	STR	*											
132																	
133				CURB EXTENSION 1													
134																	
135	7	5	8-9	1C501	17		3-7½	1-6	3-7½								
136	7	5	8-9	E1C502	17		3-7½	1-6	3-7½								
137	10	5	5-6	1C503	STR	*											
138	5	5	5-3	E1C504	STR												
139																	
140																	
141																	
142				CURB EXTENSION 2													
143																	
144	7	5	8-9	2C501	17		3-7½	1-6	3-7½								
145	7	5	8-9	E2C502	17		3-7½	1-6	3-7½								
146	10	5	5-6	2C503	STR	*											
147	5	5	5-3	E2C504	STR												
148																	
149																	
150																	
151																	
152																	
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																	
162																	
163																	
164																	
165																	
166																	
167																	
168																	
169																	
170																	
171																	
172																	
173																	
174																	
175																	
176																	
177																	
178																	
179																	
180																	

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



OFF SHOP FOR BENDING STEEL CHANGES.

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 BARS TO BE CUT IN FIELD.
* DENOTES ONE EXTRA BAR ADDED FOR TESTING PURPOSES.
△ DENOTES TWO EXTRA BARS ADDED FOR TESTING PURPOSES.

REV. NO.	MADE BY	DATE	DESCRIPTION

STATE OF VERMONT
AGENCY OF TRANSPORTATION

TOWN OF ESSEX	BRIDGE NO. 14 LOG STA.
HIGHWAY NO. VT. RTE. 289	SURV. STA. RAMP 15+00
VT. RTE. 289 "RAMP A" OVER CVRR	
REINFORCING STEEL SCHEDULE-2	
DESIGNED BY ———	DRAWN BY RFU
CHECKED BY RJS DATE 10/12/90	BRIDGE DESIGN SUPERVISOR MWO DATE 10/12/90
PROJECT WILLISTON-COLCHESTER	PROJECT NO. PB 033-1 (2)
BRIDGE SHEET NO. BR632	SHEET 221 OF 400