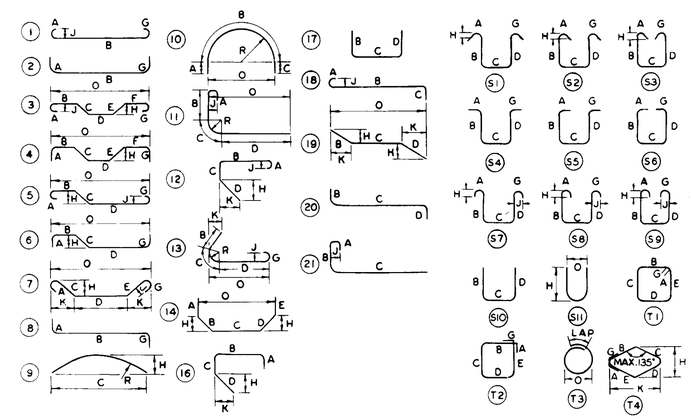
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
1																	
2																	
3					WALL # 3 STA. 13+11 ~ 13+52 RT.												
4																	
5	8	5	20-6	3L501A	Str.												
6	8	5	25-0	3L501B	Str.												
7	49	5	8-4	3L502	17		2-1	6-3									
8	49	5	3-5	3L503	Str.												
9	16	5	17-6	3L504A	Str.												
10	14	5	4-6	3L504B	Str.												
11	14▲	5	23-0	3L504C	Str.												
12	19▲	5	9-0	3L505A	Str.												
13	30▲	5	6-0	3L505B	Str.												
14	19▲	5	4-2	3L506A	Str.												
15	23▲	5	3-2	3L506B	Str.												
16	47	5	5-0	3L507	Str.												
17	15	5	6-0	3L510	17		3-0	3-0									
18	30	5	5-2	3L511	17		2-2	3-0									
19																	
20																	
21					STAIRWAY #5 STA. 13+64 ~ 13+70 RT.												
22																	
23	22	4	2-3	5W401	17		1-0	1-3									
24	7	4	11-2	5W402	Str.												
25	12	4	4-0	5W403	Str.												
26																	
27	18▲	5	10-0	5W504	Str.												
28	18▲	5	9-9	5W505	Str.												
29																	
30																	
31					WALL # 4 STA. 13+62.5 ~ 14+03.5 RT.												
32																	
33	8	5	15-0	4S501	Str.												
34	19	5	5-6	4S502	17		2-1	3-5									
35	19	5	3-5	4S503	Str.												
36	14	5	9-0	4S504	Str.												
37	20▲	5	6-6	4S505	Str.												
38																	
39	8	5	41-6	4L501A	Str.												
40	8	5	6-0	4L501B	Str.												
41	48▲	5	8-4	4L502	17		2-1	6-3									
42	48	5	3-5	4L503	Str.												
43	16	5	3-0	4L504A	Str.												
44	16	5	9-0	4L504B	Str.												
45	16	5	33-0	4L504C	Str.												
46	10▲	5	9-6	4L505A	Str.												
47	38▲	5	9-0	4L505B	Str.												
48	10▲	5	4-8	4L506A	Str.												
49	34▲	5	4-2	4L506B	Str.												
50	49	5	5-0	4L507	Str.												
51	14	5	6-0	4L510	17		3-0	3-0									
52	28	5	5-2	4L511	17		2-2	3-0									
53																	
54																	
55					WALL #5 STA. 18+42 ~ 19+21.5 LT.												
56																	
57	8	5	81-8	5S501A	Str.												
58	8	5	2-0	5S501B	Str.												
59	8	5	4-6	5S501C	Str.												
60	97	5	5-6	5S502	17		2-1	3-5									
61	97	5	3-5	5S503	Str.												
62	14	5	99-2	5S504A	Str.												
63	14	5	3-6	5S504B	Str.												
64	166▲	5	6-0	5S505	Str.												
65	94	5	4-0	5S506	Str.												
66	21	5	6-0	5S510	17		3-0	3-0									
67	42	5	5-2	5S511	17		2-2	3-0									
68																	
69																	
70					STAIRWAY #6 STA. 18+95 ~ 19+00 LT.												
71																	
72	14	4	2-3	6W401	17		1-0	1-3									
73	6	4	9-10	6W402	Str.												
74	9	4	4-6	6W403	Str.												
75																	
76	28▲	5	5-9	6W504	Str.												
77	28▲	5	6-0	6W505	Str.												
78																	
79																	
80																	
81																	
82																	
83																	
84																	
85																	
86																	
87																	
88																	
89																	
90																	
91																	
92																	
93																	
94																	
95																	
96																	
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																	

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). 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.

Ⓐ BEND TO FIT IN FIELD.

▲ 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 MONTPELIER	BRIDGE NO.
HIGHWAY NO. BERLIN ST.	LOG STA.
	SURV. STA.

BERLIN ST. RETAINING WALLS

REINFORCING STEEL SCHEDULE

DESIGNED BY P.E. Provost	DRAWN BY R.M. Walker
CHECKED BY P.E. Provost DATE 7/89	BRIDGE DESIGN SUPERVISOR R.P. Gaudron DATE 7/89
PROJECT MONTPELIER – BERLIN ST.	PROJECT NO. MEGC-M6400(7)

BRIDGE SHEET NO. 9 OF 10 SHEET 111 OF 335