ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
	SUPERSTRUCTURE																
1																	
2																	
3	79✱	7	22'-8"	ES701	STR												
4																	
5	14	5	40'-0"	ES501	STR												
6																	
7	88✱	11	41'-7"	ES1101	18	1'-7"	40'-0"							1'-2 3/4"			
8																	
9	82	5	6'-2"	ES502	17		3'-2"	1'-8"	1'-4"								
10	82	5	7'-6"	ES503	58	0'-7"	2'-8"	1'-0"	2'-8"			0'-7"	0'-5"	0'-5"			
11	4	5	40'-0"	ES504	9			40'-0"					0'-5"	40'-2"			
12																	
13																	
14																	
15	APPROACH SLABS																
16																	
17																	
18	84	5	22'-3"	AS501	STR												
19																	
20	108	10	20'-11"	AS1001	18	1'-5"	19'-6"							1'-1 1/4"			
21																	
22																	
23																	
24	ABUTMENT #1																
25																	
26																	
27△	19	8	4'-0"	EA801	STR												
28																	
29	48	6	VARIES	—	STR	1W601 TO 1W648					VARIES		7'-7" TO 4'-7"			(INCR. 0'-0 3/4")	
30	2	6	11'-0"	1A649	STR												
31																	
32	48	5	VARIES	—	STR	1W501 TO 1W548					VARIES		7'-7" TO 4'-7"			(INCR. 0'-0 3/4")	
33	50	5	3'-9"	1A549	STR												
34	16	5	27'-6"	1A550	STR												
35	16	5	22'-9"	1A551	STR												
36	2	5	22'-3"	1A552	STR												
37	2	5	21'-3"	1A553	STR												
38	36	5	26'-6"	1A554	STR												
39	100	5	7'-6"	1A555	STR												
40	2	5	11'-0"	1A556	STR												
41																	
42	50	6	6'-3"	1A650	2	2'-0"	4'-3"										
43	43	6	2'-9"	1A651	19		1'-6"	1'-3"					1'-0 3/4"	1'-0 3/4"			
44																	
45	43	5	5'-9"	1A557	16		2'-3"	0'-6"	3'-0"				2'-1 1/2"	2'-1 1/2"			
46	50	5	5'-9"	1A558	17		2'-1"	1'-7"	2'-1"								
47	12	5	4'-6"	1A559	19		2'-3"	2'-3"					1'-7"	1'-7"			
48	6	5	4'-6"	1A560	19		2'-3"	2'-3"					2'-1 1/2"	0'-9"			
49																	
50																	
51																	
52	WINGWALL #1																
53																	
54																	
55	8	5	8'-9"	1W501	STR												
56	12	5	10'-9"	1W502	STR												
57	10	5	8'-2"	1W503	STR												
58	10	5	3'-9"	1W504	STR												
59	18	5	12'-0"	1W505	STR												
60	26	5	7'-6"	1W506	STR												
61																	
62	10	6	9'-3"	1W601	2	1'-4"	7'-11"										
63	10	6	5'-0"	1W602	2	1'-3"	3'-9"										
64																	
65	10	5	4'-0"	1W507	17		2'-0"	1'-0"	1'-0"								
66																	
67																	
68																	
69																	
70																	
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77																	
78																	
79																	
80																	

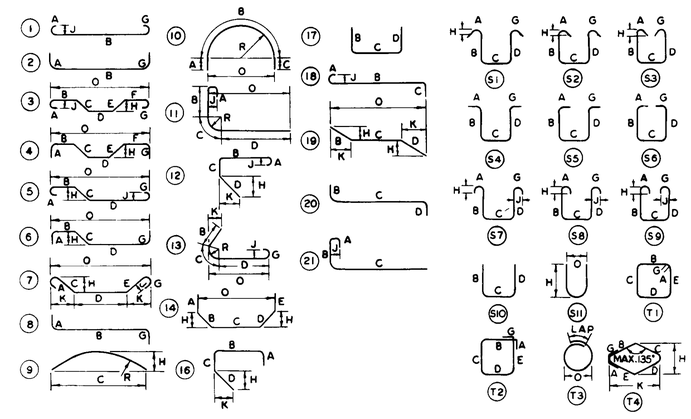
ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
81	WINGWALL #2																
82																	
83△	27	6	14'-0"	2W601	STR												
84																	
85	18	5	VARIES	—	STR	2W501 TO 2W509					VARIES		16'-0" TO 13'-6"			(INCR. 0'-3 3/4")	
86	13	5	14'-0"	2W510	STR												
87	18	5	13'-6"	2W511	STR												
88	10	5	11'-6"	2W512	STR												
89	26	5	7'-6"	2W513	STR												
90	13	5	4'-2"	2W514	STR												
91																	
92	25	6	5'-7"	2W602	2		4'-4"	1'-3"									
93																	
94	13	5	4'-0"	2W515	17		2'-0"	1'-0"	1'-0"								
95																	
96																	
97																	
98																	
99																	
100																	
101	ABUTMENT #2																
102																	
103																	
104	15	8	4'-0"	E2A801	STR												
105																	
106	48	6	VARIES	—	STR	2A601 TO 2A648					VARIES		5'-3" TO 8'-3"			(INCR. 3/4")	
107																	
108△	50	5	4'-0"	2A501	STR												
109	48	5	VARIES	—	STR	2A502 TO 2A549					VARIES		5'-3" TO 8'-3"			(INCR. 3/4")	
110	16	5	25'-6"	2A550	STR												
111	10	5	27'-3"	2A551	STR												
112	6	5	27'-6"	2A552	STR												
113	2	5	20'-0"	2A553	STR												
114	2	5	23'-0"	2A554	STR												
115	36	5	26'-6"	2A555	STR												
116	106	5	7'-6"	2A556	STR												
117																	
118																	
119	48	6	6'-3"	2A649	2	2'-0"	4'-3"										
120	43	5	2'-9"	2A650	19		1'-6"	1'-3"					1'-0 3/4"	1'-0 3/4"			
121																	
122	48	5	5'-9"	2A557	17		2'-1"	1'-7"	2'-1"								
123	43	5	5'-9"	2A558	16		2'-3"	0'-6"	3'-0"				2'-1 1/2"	2'-1 1/2"			
124																	
125																	
126																	
127	WINGWALL #3																
128																	
129																	
130																	
131	16	6	8'-9"	3W601	STR												
132																	
133	16	5	4'-0"	3W501	STR												
134	18	5	13'-3"	3W502	STR												
135	30	5	7'-6"	3W503	STR												
136	16	5	8'-9"	3W504	STR												
137	20	5	12'-6"	3W505	STR												
138																	
139																	
140																	
141	16	6	6'-3"	3W603	2	2'-0"	4'-3"										
142																	
143																	
144	7	5	4'-0"	3W506	19		2'-0"	2'-0"					1'-5"	1'-5"			
145	4	5	3'-6"	3W507	19		1'-6"	2'-0"					1'-0 3/4"	1'-0 3/4"			
146	3	5	5'-7"	3W508	17		2'-0"	1'-7"	2'-0"								
147	13	5	5'-3"	3W509	17		2'-1"	1'-1"	2'-1"								
148																	
149																	
150																	
151	WINGWALL #4																
152																	
153																	
154																	
155	4	6	11'-6"	4W601	STR												
156	13	6	VARIES	—	STR	4W602 TO 4W614					VARIES		11'-6" TO 9'-3"			(INCR. 2 1/4")	
157																	
158	17	5	4'-0"	4W501	STR												
159	13	5	VARIES	—	STR	4W502 TO 4W514					VARIES		11'-6" TO 9'-3"			(INCR. 2 1/4")	
160	4	5	11'-6"	4W515	STR												

ITEM	NO. PIECES	SIZE	LENGTH	MARK	TYPE	A	B	C	D	E	F	G	H	J	K	R	O
161	18	5	14'-6"	4W516	STR												
162	32	5	7'-6"	4W517	STR												
163	4	5	14'-3"	4W518	STR												
164	4	5	13'-6"	4W519	STR												
165	16	5	14'-0"	4W520	STR												
166																	
167																	
168	17	6	6'-3"	4W615	2	2'-0"	4'-3"										
169																	
170																	
171	8	5	4'-0"	4W521	19		2'-0"	2'-0"					1'-0"	1'-8 3/4"			
172	4	5	3'-6"	4W522	19		1'-6"	2'-0"					0'-9"	1'-3 1/2"			
173	3	5	5'-9"	4W523	17		2'-1"	1'-7"	2'-1"								
174	14	5	5'-3"	4W524	17		2'-1"	1'-1"	2'-1"								
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



PARE ENGINEERING CORPORATION
Engineers — Planners — Landscape Architects
8 Blackstone Valley Place, Lincoln, RI 02865
401/334/4100

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.

E EPOXY COATED
▲ 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 POWNAL	BRIDGE NO. 6
	LOG STA.
HIGHWAY NO. ROUTE 346	SURV. STA. 201+74

REINFORCING STEEL SCHEDULE

DESIGNED BY J.S.J.	DRAWN BY K.M.B.
CHECKED BY P.D.M. DATE	BRIDGE DESIGN SUPERVISOR DATE
PROJECT POWNAL	PROJECT NO. RS0107 (7)

BRIDGE SHEET NO. BR610 SHEET 147 OF 319

124682