

Item	No.	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	B
PIER No. 3																	
FOOTING																	
1	63	9	14-4	3P901	2	1-5	11-6					1-5					
2	72	10	16-8	3P1001	2	1-7	13-6					1-7					
3	79	14S	10-3	3P14S1	2	2-1	8-2										
COLUMN																	
7	26	9	29-10	3P902	Str												
8	26	9	31-7	3P903	Str												
9	26	9	33-5	3P904	Str												
10	39	14S	30-8	3P14S2	Str												
11	40	11	28-10	3P1101	3	5-8	2-0	21-2				0-2				28-10	
Spiral Core Pitch Turns Spacers																	
15	3	5	24-9 1/2	3P501	4-0	3 1/2	8 1/2	4									
16	1	5	25-1 1/2	3P502	4-0	3 1/2	9 1/2	4									
17	1	5	27-8 1/2	3P503	4-0	3 1/2	9 1/2	4									
18	1	5	29-9	3P504	4-0	3 1/2	10 1/2	4									
CAP																	
21	20	5	8-6	3P505	Str												
22	10	5	5-6	3P506	Str												
23	16	6	25-9	3P603	Str												
24	10	8	22-4	3P801	Str												
25	6	9	15-0	3P905	Str												
26	8	9	28-5	3P906	Str												
27																	
28	48	4	8-6	3P401	17	2-0	4-6	2-0									
29	38	6	21-6	3P601	71	0-7	4-6	5-8	4-6	5-8		0-7					
30	12	6	12-4	3P602	10	2-6	7-4	2-6								2-4	4-8
31	20	10	23-8	3P1002	17	5-0	18-8										
32																	
33																	
34																	
35																	
36																	
37																	
PIER No. 4																	
FOOTING																	
39	63	9	14-4	4P901	2	1-5	11-6					1-5					
40	72	10	16-8	4P1001	2	1-7	13-6					1-7					
41	78	14S	10-3	4P14S1	2	2-1	8-2										
COLUMN																	
44	26	9	29-7	4P902	Str												
45	26	9	31-6	4P903	Str												
46	26	9	33-5	4P904	Str												
47	39	14S	30-8	4P14S2	Str												
48	39	11	28-10	4P1101	3	5-8	2-0	21-2				0-2				28-10	
Spiral Core Pitch Turns Spacers																	
52	3	5	24-9 1/2	4P501	4-0	3 1/2	8 1/2	4									
53	1	5	25-8	4P502	4-0	3 1/2	9 1/2	4									
54	1	5	27-8 1/2	4P503	4-0	3 1/2	9 1/2	4									
55	1	5	29-9	4P504	4-0	3 1/2	10 1/2	4									
CAP																	
58	20	5	8-6	4P505	Str												
59	10	5	5-6	4P506	Str												
60	16	6	27-9	4P603	Str												
61	10	8	23-10	4P801	Str												
62	6	9	16-6	4P905	Str												
63	8	9	30-5	4P906	Str												
64																	
65	48	4	8-6	4P401	17	2-0	4-6	2-0									
66	44	6	21-6	4P601	71	0-7	4-6	5-8	4-6	5-8		0-7					
67	12	6	12-4	4P602	10	2-6	7-4	2-6								2-4	4-8
68	20	10	24-11	4P1002	17	5-0	19-11										
69																	
70																	
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81																	
82																	

SOUTHBOUND SUPERSTRUCTURE

SPAN No. 1

82 415 5 31-6 1SS505 Str

83 8 5 26-1 1SS506 Str

84 60 6 31-10 1SS601 Str

85

86

87 199 4 4-6 1SS401 S3 0-5 1-4 1-0 1-4 0-5

88 300 5 18-11 1SS501 19 1-10 17-1 0-2 1-10 18-11

89 300 5 24-11 1SS502 19 1-10 23-1 0-2 1-10 24-11

90 301 5 15-2 1SS503 19 1-10 13-4 0-2 1-10 15-2

91 300 5 28-8 1SS504 19 1-10 26-10 0-2 1-10 28-8

92

93

94

SPAN No. 2

95 415 5 31-6 2SS505 Str

96 8 5 28-3 2SS506 Str

97 60 6 31-10 2SS601 Str

98

99

100 199 4 4-6 2SS401 S3 0-5 1-4 1-0 1-4 0-5

101 300 5 18-11 2SS501 19 1-10 17-1 0-2 1-10 18-11

102 300 5 24-11 2SS502 19 1-10 23-1 0-2 1-10 24-11

103 300 5 15-2 2SS503 19 1-10 13-4 0-2 1-10 15-2

104

105

SPAN No. 3

106 415 5 31-6 3SS505 Str

107 8 5 31-2 3SS506 Str

108 60 6 31-10 3SS601 Str

109

110

111 199 4 4-6 3SS401 S3 0-5 1-4 1-0 1-4 0-5

112 300 5 18-11 3SS501 19 1-10 17-1 0-2 1-10 18-11

113 300 5 24-11 3SS502 19 1-10 23-1 0-2 1-10 24-11

114 300 5 15-2 3SS503 19 1-10 13-4 0-2 1-10 15-2

115 300 5 28-8 3SS504 19 1-10 26-10 0-2 1-10 28-8

116

117

118

119

120

NORTHBOUND SUPERSTRUCTURE

SPAN No. 1

121

122 415 5 31-6 1NS505 Str

123 8 5 26-1 1NS506 Str

124 60 6 31-10 1NS601 Str

125

126 199 4 4-6 1NS401 S3 0-5 1-4 1-0 1-4 0-5

127 300 5 18-11 1NS501 19 1-10 17-1 0-2 1-10 18-11

128 300 5 24-11 1NS502 19 1-10 23-1 0-2 1-10 24-11

129 301 5 15-2 1NS503 19 1-10 13-4 0-2 1-10 15-2

130 300 5 28-8 1NS504 19 1-10 26-10 0-2 1-10 28-8

131

132

133

SPAN No. 2

134 415 5 31-6 2NS505 Str

135 8 5 28-3 2NS506 Str

136 60 6 31-10 2NS601 Str

137

138 199 4 4-6 2NS401 S3 0-5 1-4 1-0 1-4 0-5

139 300 5 18-11 2NS501 19 1-10 17-1 0-2 1-10 18-11

140 300 5 24-11 2NS502 19 1-10 23-1 0-2 1-10 24-11

141 300 5 15-2 2NS503 19 1-10 13-4 0-2 1-10 15-2

142 300 5 28-8 2NS504 19 1-10 26-10 0-2 1-10 28-8

143

144

145

SPAN No. 3

146 415 5 31-6 3NS505 Str

147 8 5 31-2 3NS506 Str

148 60 6 31-10 3NS601 Str

149

150 199 4 4-6 3NS401 S3 0-5 1-4 1-0 1-4 0-5

151 300 5 18-11 3NS501 19 1-10 17-1 0-2 1-10 18-11

152 300 5 24-11 3NS502 19 1-10 23-1 0-2 1-10 24-11

153 300 5 15-2 3NS503 19 1-10 13-4 0-2 1-10 15-2

154 300 5 28-8 3NS504 19 1-10 26-10 0-2 1-10 28-8

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APPROACH SLAB No. 1

163

164 34 5 24-4 1AS501 Str

165 39 10 20-7 1AS101 1 1-1 19-6 0-9

166

167

168

APPROACH SLAB No. 2

169

170 26 5 31-6 2ASS01 Str

171 38 10 20-7 2AS101 1 1-1 19-6 0-9

172

173

174

APPROACH SLAB No. 3

175

176 34 5 24-4 3ASS01 Str

177 38 10 20-7 3AS101 1 1-1 19-6 0-9

178

179

180

APPROACH SLAB No. 4

181

182 26 5 31-2 4ASS01 Str

183 38 10 20-7 4AS101 1 1-1 19-6 0-9

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GENERAL NOTES

(1) Unless otherwise designated all standard reinforcement shall be deformed bars conforming with the requirements of the "Standard Specification for Billet-Steel Bars for Concrete Reinforcement" (Intermediate Grade) AASHTO Designation M31-60 or its latest revision.

(2) Unless otherwise designated all special large size reinforcement shall be deformed bars conforming with the requirements of the "Standard Specification for Special Large Size Deformed Billet-Steel Bars for Concrete Reinforcement" (Intermediate Grade) AASHTO Designation M-171-60 or its latest revision.

(3) * Denotes one extra bar added for testing purposes.

(4) Stirrups and tie bars shall be bent around a pin having a diameter not less than two times the minimum thickness of the bar. Bends for other bars shall be made around a pin having a diameter not less than six times the minimum thickness except for bars larger than 1 inch, in which case the bends shall be made around a pin of eight bar diameters.

(5) All Spiral Reinforcement shall conform to AASHTO designation M32-60, Cold Drawn Steel Wire for Concrete Reinforcement.

TYPICAL BAR BENDS

ENLARGED VIEW SHOWING BAR BENDING DETAILS

NOTES

- All dimensions are out to out of bar.
- 'J' dimensions on 180° hooks to be shown only where necessary to restrict hook size otherwise standard hooks are to be used.
- Where 'J' is not shown, 'J' will be kept equal to or less than $\frac{C}{4}$ or 'H', where 'H' can exceed 'H', it should be shown.
- 'H' dimension on stirrups to be shown where necessary to restrict hooks.
- Where bars are to be bent more accurately than standard bending tolerances bending dimensions which require closer working should have limits indicated.
- Figures in circles show types.
- No allowance for bend curvature is to be made except for standard hook & radii in excess of same.

STANDARD HOOK DETAIL

Detailing Dimension Hook A or G

4d or 28mm

BAR SIZES

Equivalent Size	Present Number	Weight per ft
1/2"	2	.167
3/8"	3	.376
1/2"	4	.668
5/8"	5	1.043
3/4"	6	1.502
7/8"	7	2.044
1"	8	2.670
1 1/8"	9	3.400
1 1/4"	10	4.303
1 1/2"	11	5.313
1 3/4"	14.5	7.650
2"	18.5	13.600

STATE OF VERMONT

DEPARTMENT OF HIGHWAYS

PROJECT BERLIN-M