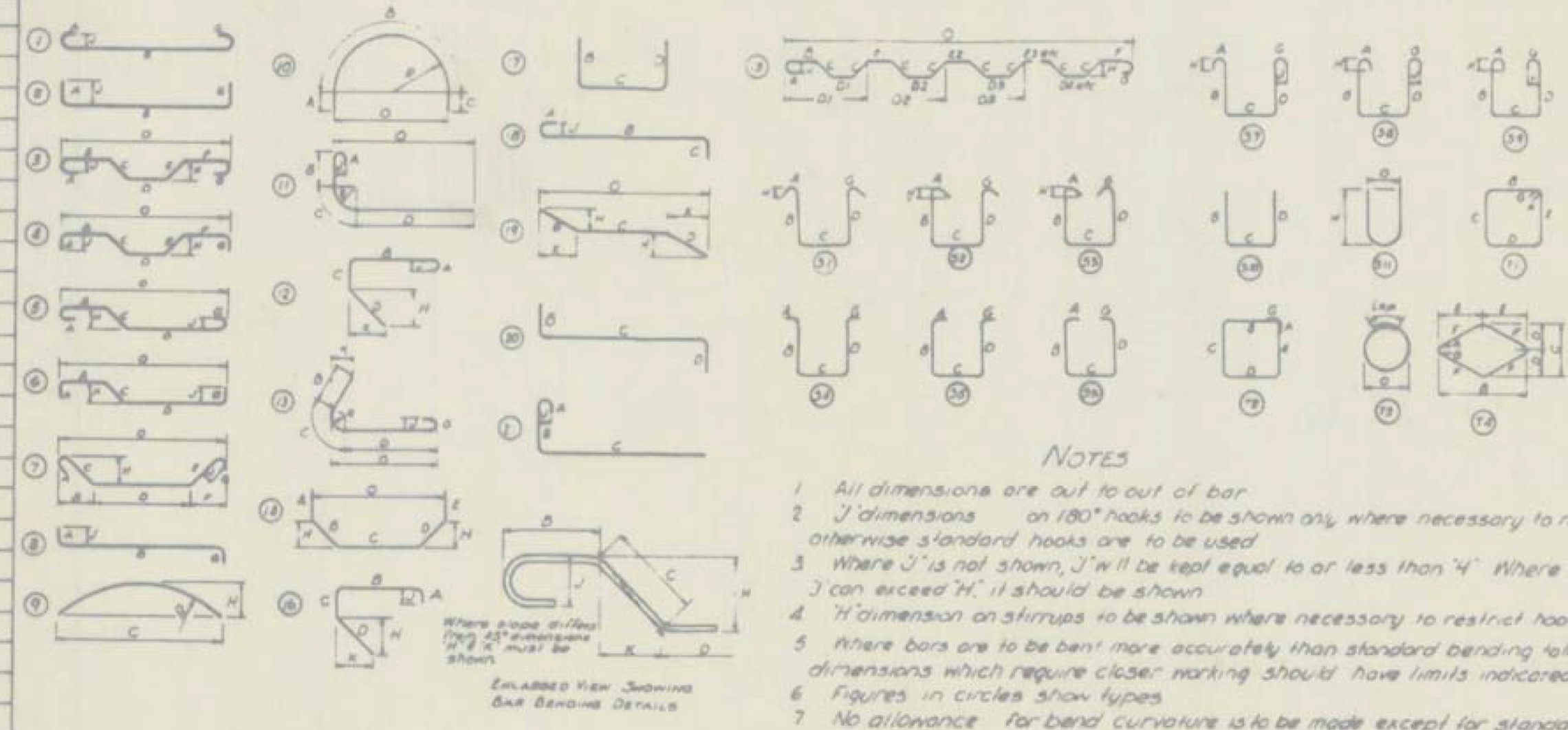


Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
STAGE I CONSTRUCTION																	
APPROACH SLAB NO. 3																	
1																	
2																	
3																	
4	16	5	3-6	3A5506	STR												
5	*3	4	5-4	3A5508													
6	2		5-4	3A5509													
7	20		29-6	3A5505	STR												
8	5	5-0	3A5507	56	0-6	1-9	0-6	1-9			0-6						
9	*3	10	7-0	3A5504	STR												
10	2		7-0	3A5504	STR												
11	30	10	20-7	3A5500	1	1-1	19-6							0-9			
APPROACH SLAB NO. 4																	
Same as Approach Slab #3 except that Mark shall be 4AS in lieu of 3AS and test bars shall be omitted.																	
SUPERSTRUCTURE																	
SPAN NO. 4																	
23	66	4	5-3	3S404	53	0-5	1-6	1-5	1-6							0-5	
24	26	4	7-6	3S406A	55	0-5	3-0	0-8	3-0							0-5	
25	150	5	25-3	3S502	STR												
26	8	1	32-2	3S505	STR												
27	196	1	34-4	3S501	STR												
28	31	5	4-2	3S506P	17	2-6	0-8	1-0									
29	20	6	25-6	3S603	STR												
30	22	6	3-0	3S607	1	0-8	1-8									0-8	
SPAN NO. 5																	
33	72	4	5-3	3S404	53	0-5	1-6	1-5	1-6							0-5	
34	150	5	27-9	3S502	STR												
35	216	5	34-4	3S501	STR												
36	62	5	4-2	3S506P	17	2-6	0-8	1-0									
37	*21	6	28-0	3S603	STR												
38	*1	4	4-0	3S400	STR												
SPAN NO. 6																	
Same as Span No. 4 except that Mark shall be 6S in lieu of 4S.																	
SUBSTRUCTURE																	
ABUTMENT NO. 3																	
47	4	4	3-0	3A405G	STR												
48	12		6-1	A													
49	4		6-6	B													
50	4		7-1	C													
51	4		7-9	D													
52	4		8-4	E													
53	16	4	8-6	3A405F													
54	*37	5	5-2	3A502													
55	*17	6	8-6	3A603B													
56	16		11-0	3A603A													
57	10		34-9	3A601	STR												
58	12	6	11-1	3A604	16	3-9	7-4							6-3		3-9	
ABUTMENT NO. 4																	
Same as Abut. No. 3 except that Mark shall be 4A in lieu of 3A and test bars shall be omitted.																	
PIER NO. 3																	
63	30	4	7-6	3P404	STR												
64	2		13-5	3P407B	T1	0-4 1/2	3-8	2-8	3-8	2-8						0-4 1/2	
65	2		15-1	3P407A	T1	0-4 1/2	3-8	3-6	3-8	3-6						0-4 1/2	
66	10	4	15-5	3P407	T1	0-4 1/2	3-8	3-8	3-8	3-8						0-4 1/2	
67	4	5	21-6	3P508	STR												
68	4	6	33-6	3P609	STR												
69	5	6	33-6	3P608	14	2-9	28-0	2-9						1-0			
70	*7	7	7-0	3P711	STR												
71	32		7-6	3P702													
72	10		16-0	3P701													
73	7		28-6	3P705													
74	60		28-10	3P706													
75	6		33-6	3P710	STR												
76	60	7	5-4	3P703	2	0-5	4-11										
77	*13	8	21-0	3P805	STR												
78	*7	9	28-6	3P901	STR												

Minimum bends to be as follows:
 "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."

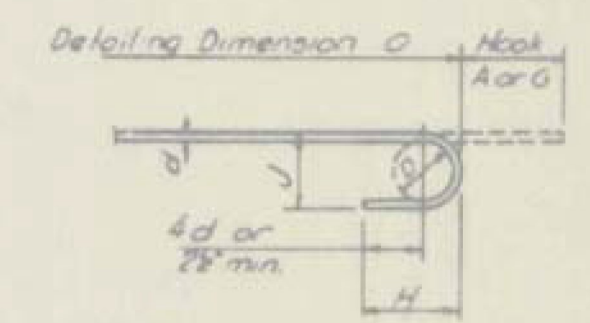
TYPICAL BAR BENDS



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 4" where J can exceed 4", 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 marking 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.

Item	No. Pieces	Size	Length	Mark	Type	A	B	C	D	E	F	G	H	J	K	R	O
163																	
164																	
165																	
166																	
167																	
168																	
169																	
170																	
171																	
172																	
173																	
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180																	
181																	
182																	
183																	
184																	
185																	
186																	
187																	
188																	
189																	
190																	



STANDARD HOOK DETAIL

BAR SIZES

Equivalent Size	Present (Numbers)
1/2"	#2
3/8"	#3
1/2"	#4
5/8"	#5
3/4"	#6
7/8"	#7
1"	#8
1 1/8"	#9
1 1/4"	#10
1 3/8"	#11

* Denotes 1 Bar added for testing purposes.

8. Bar reinforcement metal shall conform to the requirements of the Standard Specifications for new Billet-Steel Concrete Reinforcement Bars (Intermediate Grade) Serial Designation AAS, N.O. M31-48 or its latest revision. All bars shall be deformed to conform with ASTM Specifications A305-49.

ESTIMATED QUANTITIES

Location	Pounds	FINAL
STAGE I CONSTRUCTION		
Approach Slab No. 3	3,550	
Approach Slab No. 4	3,520	
Sub-Total	7,070	
Abutment No. 3	1,630	
Abutment No. 4	1,610	
Span No. 4	12,600	
Span No. 5	13,480	
Span No. 6	12,600	
Pier No. 3	8,250	
Pier No. 4	8,250	
Sub-Total	58,250	
GRAND TOTAL	65,320	

BR. 308 OF 308

SWANTON-HIGHGATE
 North Bound
 I 89 OVER ST. J. & L.C. R.R.
REIN. STEEL SCHEDULE
 PROJECT No. I-89-3(32)
 DRAWN BY: W. CHECKED BY: RLO
 SHEET 142 OF 240

SWANTON
IM 089-3(70)
SHEET 23 OF 31
FOR REFERENCE
ONLY