

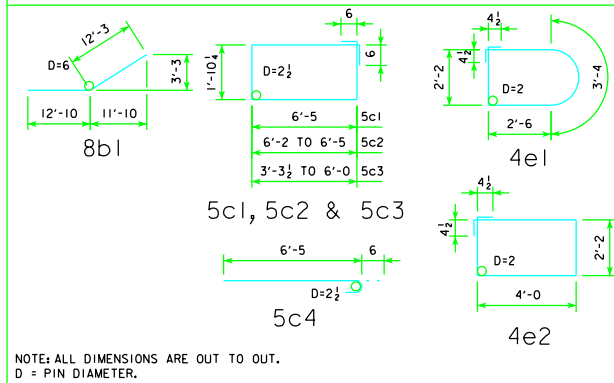
CAP

REINFORCING STEEL	CAP		160'-0"			180'-0"			200'-0"			220'-0"			240'-0"			260'-0"			280'-0"			300'-0"			320'-0"			340'-0"		
	BAR	LENGTH	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT			
Q1	47'-2"	6	9	962	6	9	962	6	10	1218	6	10	1218	6	11	1504	6	11	1504	6	11	1504	6	11	1504	6	11	1504	6	11	1504	
Q2	47'-2"	6	8	756	6	9	962	6	9	962	6	9	962	6	10	1218	6	10	1218	6	11	1504	6	11	1504	6	11	1504	6	11	1504	
Q3	47'-2"	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	--	4	6	283	4	7	386	
6a4	47'-2"	6	6	425	6	6	425	6	6	425	6	6	425	6	6	425	6	6	425	6	6	425	6	6	425	6	6	425	6	6	425	
6a5	45'-0"	2	6	135	2	6	135	2	6	135	2	6	135	2	6	135	2	6	135	2	6	135	2	6	135	2	6	135	2	6	135	
6a6	38'-3"	2	6	115	2	6	115	2	6	115	2	6	115	2	6	115	2	6	115	2	6	115	2	6	115	2	6	115	2	6	115	
6a7	31'-6"	2	6	95	2	6	95	2	6	95	2	6	95	2	6	95	2	6	95	2	6	95	2	6	95	2	6	95	2	6	95	
8b1	25'-1"	8	8	536	8	8	536	8	8	536	8	8	536	8	8	536	8	8	536	8	8	536	8	8	536	8	8	536	8	8	536	
5c1	17'-7"	28	5	514	28	5	514	28	5	514	28	5	514	28	5	514	28	5	514	28	5	514	28	5	514	28	5	514	28	5	514	
5c2	VARIES	8	5	145	8	5	145	8	5	145	8	5	145	12	5	217	12	5	217	12	5	217	12	5	217	12	5	217	12	5	217	
5c3	VARIES	44	5	642	44	5	642	44	5	642	44	5	642	44	5	642	44	5	642	44	5	642	44	5	642	44	5	642	44	5	642	
5c4	6'-11"	22	5	159	22	5	159	22	5	159	22	5	159	22	5	159	22	5	159	22	5	159	22	5	159	22	5	159	22	5	159	
①	TOTAL (LB.)			4484			4690			4946			4946			5274			5736			6022			6538			6641			6896	
	STRUCTURAL CONCRETE (CY)			32.5			32.5			32.5			32.5			32.5			32.5			32.5			32.5			32.5			32.5	

COLUMN

H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL												TOTAL WEIGHT (LB.)
			d1 BAR			4e1 BAR			4e2 BAR			TOTAL WEIGHT (LB.)			
			NO.	SIZE	LENGTH	NO.	SIZE	LENGTH	NO.	SIZE	LENGTH		WEIGHT		
16	5'-3"	10.9	64	9	8'-0"	1741	12	4	11'-3"	90	42	4	13'-1"	367	2198
17	6'-3"	13.0	64	9	9'-0"	1958	14	4	11'-3"	105	49	4	13'-1"	428	2491
18	7'-3"	15.1	64	9	10'-0"	2176	16	4	11'-3"	120	56	4	13'-1"	489	2785
19	8'-3"	17.2	64	9	11'-0"	2394	18	4	11'-3"	135	63	4	13'-1"	551	3080
20	9'-3"	19.2	64	9	12'-0"	2611	20	4	11'-3"	150	70	4	13'-1"	612	3373
21	10'-3"	21.3	64	9	13'-0"	2829	22	4	11'-3"	165	77	4	13'-1"	673	3667
22	11'-3"	23.4	64	9	14'-0"	3046	24	4	11'-3"	180	84	4	13'-1"	734	3960
23	12'-3"	25.5	64	9	15'-0"	3264	26	4	11'-3"	195	91	4	13'-1"	795	4254
24	13'-3"	27.6	64	9	16'-0"	3482	28	4	11'-3"	210	98	4	13'-1"	856	4548
25	14'-3"	29.6	64	9	17'-0"	3699	30	4	11'-3"	225	105	4	13'-1"	918	4842
26	15'-3"	31.7	64	9	18'-0"	3917	32	4	11'-3"	240	112	4	13'-1"	979	5136
27	16'-3"	33.8	64	9	19'-0"	4134	34	4	11'-3"	255	119	4	13'-1"	1040	5430
28	17'-3"	35.9	64	9	20'-0"	4352	36	4	11'-3"	271	126	4	13'-1"	1101	5724
29	18'-3"	38.0	64	9	21'-0"	4570	38	4	11'-3"	286	133	4	13'-1"	1162	6018
30	19'-3"	40.0	64	9	22'-0"	4787	40	4	11'-3"	301	140	4	13'-1"	1224	6312
31	20'-3"	42.1	64	9	23'-0"	5005	42	4	11'-3"	316	147	4	13'-1"	1285	6606
32	21'-3"	44.2	64	9	24'-0"	5222	44	4	11'-3"	331	154	4	13'-1"	1346	6899
33	22'-3"	46.3	64	9	25'-0"	5440	46	4	11'-3"	346	161	4	13'-1"	1407	7193
34	23'-3"	48.4	64	9	26'-0"	5658	48	4	11'-3"	361	168	4	13'-1"	1468	7487
35	24'-3"	50.4	64	9	27'-0"	5875	50	4	11'-3"	376	175	4	13'-1"	1529	7780
36	25'-3"	52.5	64	9	28'-0"	6093	52	4	11'-3"	391	182	4	13'-1"	1591	8075
37	26'-3"	54.6	64	9	29'-0"	6310	54	4	11'-3"	406	189	4	13'-1"	1652	8368
38	27'-3"	56.7	64	9	30'-0"	6528	56	4	11'-3"	421	196	4	13'-1"	1713	8662
39	28'-3"	58.8	64	9	31'-0"	6746	58	4	11'-3"	436	203	4	13'-1"	1774	8956
40	29'-3"	60.8	64	9	32'-0"	6963	60	4	11'-3"	451	210	4	13'-1"	1835	9249

BENT BAR DETAILS

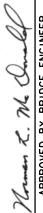



PIER NOTES:

SEE "TEE PIER NOTES" ON RS40-003-10 FOR NOTES REGARDING APPLICATION OF THESE PIER STANDARDS.

MINIMUM CLEAR DISTANCE FROM FACE OF CONCRETE TO NEAR REINFORCING BAR SHALL BE 2 INCHES UNLESS OTHERWISE NOTED OR SHOWN.

① SEE SHEET RS40-168-10 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER		Iowa Department of Transportation Highway Division	
			STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES ROLLED STEEL BEAM BRIDGES	
			JUNE, 2010	
TEE PIER CAP & COLUMN DETAILS 30° SKEW		RS40-147-10		