



NOTE: THE REINFORCING STEEL QUANTITIES FOR THE CAP AND COLUMN ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

NOTE: THE CONCRETE QUANTITIES FOR THE CAP AND COLUMN COLUMN ARE TO BE INCLUDED ON THE SUMMARY QUANTITIES SHEET IN THE PLAN.

CAP

REINFORCING STEEL	BAR	LENGTH	SHAPE	138'-10		151'-4		163'-10		176'-4		188'-10		201'-4		213'-10		226'-4		243'-0					
				NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	NO.	SIZE	WEIGHT	
a1	57'-8	8	9	1569	8	9	1569	8	9	1569	8	10	1985	8	10	1985	8	10	1985	8	11	2451	8	11	2451
a2	57'-8	8	8	1232	8	9	1569	8	9	1569	8	9	1569	8	10	1985	8	10	1985	8	10	1985	8	10	1985
6a3	57'-8	6	6	520	6	6	520	6	6	520	6	6	520	6	6	520	6	6	520	6	6	520	6	6	520
6a4	VARIES	8	6	538	8	6	538	8	6	538	8	6	538	8	6	538	8	6	538	8	6	538	8	6	538
8b1	30'-3	8	8	646	8	8	646	8	8	646	8	8	646	8	8	646	8	8	646	8	8	646	8	8	646
5c1	18'-2	30	5	568	30	5	568	30	5	568	30	5	568	30	5	568	30	5	568	30	5	568	30	5	568
5c2	VARIES	20	5	361	20	5	361	20	5	361	20	5	361	20	5	361	20	5	361	20	5	361	20	5	361
5c3	VARIES	48	5	688	48	5	688	48	5	688	48	5	688	48	5	688	48	5	688	48	5	688	48	5	688
5c4	7'-2	24	5	179	24	5	179	24	5	179	24	5	179	24	5	179	24	5	179	24	5	179	24	5	179
TOTAL (L.B.)				6301		6638		6638		7054		7054		7615		7615		8081		8081					
STRUCTURAL CONCRETE (CY)				44.9		44.9		44.9		44.9		44.9		44.9		44.9		44.9		44.9					

COLUMN

H IN FEET	COLUMN HEIGHT	STRUCTURAL CONCRETE (CY)	REINFORCING STEEL												TOTAL WEIGHT (L.B.)
			d1 BAR			4e1 BAR			4e2 BAR						
			NO.	SIZE	LENGTH	WEIGHT	NO.	SIZE	LENGTH	WEIGHT	NO.		SIZE	LENGTH	
16	5'-6	14.9	58	10	9'-0	2246	12	4	13'-4	107	30	4	17'-6	351	2704
17	6'-6	17.6	58	10	10'-0	2496	14	4	13'-4	125	35	4	17'-6	409	3030
18	7'-6	20.3	58	10	11'-0	2745	16	4	13'-4	143	40	4	17'-6	468	3356
19	8'-6	23.0	58	10	12'-0	2995	18	4	13'-4	160	45	4	17'-6	526	3681
20	9'-6	25.7	58	10	13'-0	3244	20	4	13'-4	178	50	4	17'-6	585	4007
21	10'-6	28.4	58	10	14'-0	3494	22	4	13'-4	196	55	4	17'-6	643	4333
22	11'-6	31.1	58	10	15'-0	3744	24	4	13'-4	214	60	4	17'-6	701	4659
23	12'-6	33.8	58	10	16'-0	3993	26	4	13'-4	232	65	4	17'-6	760	4985
24	13'-6	36.5	58	10	17'-0	4243	28	4	13'-4	249	70	4	17'-6	818	5310
25	14'-0	37.9	58	10	17'-6	4368	30	4	13'-4	267	75	4	17'-6	877	5537
26	15'-0	40.6	58	10	18'-6	4617	32	4	13'-4	285	80	4	17'-6	935	5837
27	16'-0	43.3	58	10	19'-6	4867	34	4	13'-4	303	85	4	17'-6	994	6164
28	17'-0	46.0	58	10	20'-6	5116	36	4	13'-4	321	90	4	17'-6	1052	6489
29	18'-0	48.7	58	10	21'-6	5366	38	4	13'-4	338	95	4	17'-6	1111	6815
30	19'-0	51.4	58	10	22'-6	5615	40	4	13'-4	356	100	4	17'-6	1169	7140
31	20'-0	54.1	58	10	23'-6	5865	42	4	13'-4	374	105	4	17'-6	1227	7466
32	21'-0	56.8	58	10	24'-6	6115	44	4	13'-4	392	110	4	17'-6	1286	7793
33	22'-0	59.5	58	10	25'-6	6364	46	4	13'-4	410	115	4	17'-6	1344	8118
34	23'-0	62.2	58	10	26'-6	6614	48	4	13'-4	428	120	4	17'-6	1403	8445
35	24'-0	64.9	58	10	27'-6	6863	50	4	13'-4	445	125	4	17'-6	1461	8769
36	25'-0	67.7	58	10	28'-6	7113	52	4	13'-4	463	130	4	17'-6	1520	9096
37	26'-0	70.4	58	10	29'-6	7362	54	4	13'-4	481	135	4	17'-6	1578	9421
38	27'-0	73.1	58	10	30'-6	7612	56	4	13'-4	499	140	4	17'-6	1637	9748
39	28'-0	75.8	58	10	31'-6	7862	58	4	13'-4	517	145	4	17'-6	1695	10074
40	29'-0	78.5	58	10	32'-6	8111	60	4	13'-4	534	150	4	17'-6	1754	10399

① SEE SHEET H40-31-14 FOR STEP REINFORCING STEEL QUANTITIES AND DETAILS.

LATEST REVISION DATE	 APPROVED BY BRIDGE ENGINEER	 STANDARD DESIGN - 40' ROADWAY, THREE SPAN BRIDGE PRETENSIONED PRESTRESSED CONCRETE BEAM BRIDGES SEPTEMBER, 2014
TEE PIER CAP AND COLUMN 45° SKEW		H40-82-14