Design no.	Clear Span	Clear Height	DIMENSIONS — WINGS: A1	A2	B1	B2	C1	C2	D	E1	E2	F
1	9'-6"	4'-6"	11'-10"	7'-11"	2'-11½"	3'-11½"	3'-6"	2'-6½"	5'-2"	17'-1⅞"	5'-11"	31'-2⅝"
2	9'-6"	5'-6"	15'-1"	9'-10"	3'-9½"	4'-11½"	4'-8"	3'-6½"	5'-5"	20'-4⅜"	11'-10"	31'-2⅝"
3	9'-6"	6'-6"	18'-5"	12'-2"	4'-7½"	6'-1"	5'-6½"	4'-10½"	5'-7"	23'-7⅞"	14'-2"	31'-2⅝"
4	9'-6"	7'-6"	21'-8"	14'-5"	5'-5"	7'-2½"	6'-5½"	4'-2⅞"	5'-10"	26'-11⅜"	16'-5"	31'-2⅝"
5	11'-0"	4'-6"	11'-10"	7'-11"	2'-11½"	3'-11½"	3'-6½"	2'-6½"	5'-2"	17'-1⅞"	9'-11"	36'-5"
6	11'-0"	5'-6"	15'-1"	9'-10"	3'-9½"	4'-11½"	4'-8½"	3'-6½"	5'-5"	20'-4⅜"	11'-10"	36'-5"
7	11'-0"	6'-6"	18'-5"	12'-2"	4'-7½"	6'-1"	5'-6½"	4'-10½"	5'-7"	23'-7⅞"	14'-2"	36'-5"
8	11'-0"	7'-6"	21'-8"	14'-5"	5'-5"	7'-2½"	6'-5½"	4'-2⅞"	5'-10"	26'-11⅜"	16'-5"	36'-5"
9	11'-0"	11'-0"	24'-11"	16'-5"	6'-3"	8'-3½"	7'-4½"	4'-6⅞"	6'-0"	30'-3⅞"	18'-5"	36'-5"
10	13'-0"	6'-6"	15'-1"	9'-10"	3'-9½"	4'-11½"	4'-8½"	3'-6"	5'-5"	20'-4⅜"	11'-10"	43'-4⅞"
11	13'-0"	8'-0"	18'-5"	12'-2"	4'-7½"	6'-1"	5'-6½"	4'-10½"	5'-7"	23'-7⅞"	14'-2"	43'-4⅞"
12	13'-0"	9'-6"	21'-8"	14'-5"	5'-5"	7'-2½"	6'-5½"	4'-2⅞"	5'-10"	26'-11⅜"	16'-5"	43'-4⅞"
13	13'-0"	11'-0"	24'-11"	16'-5"	6'-3"	8'-3½"	7'-4½"	4'-6⅞"	6'-0"	30'-3⅞"	18'-5"	43'-4⅞"
14	13'-0"	13'-0"	28'-3"	18'-5"	7'-0⅞"	9'-4½"	8'-3½"	4'-10⅞"	6'-3"	33'-4⅞"	20'-5"	43'-4⅞"
15	14'-5"	6'-6"	15'-1"	9'-10"	3'-9½"	4'-11½"	4'-8½"	3'-6½"	5'-5"	20'-4⅜"	11'-10"	48'-6½"
16	14'-5"	8'-0"	18'-5"	12'-2"	4'-7½"	6'-1"	5'-6½"	4'-10½"	5'-7"	23'-7⅞"	14'-2"	48'-6½"
17	14'-5"	9'-6"	21'-8"	14'-5"	5'-5"	7'-2½"	6'-5½"	4'-2⅞"	5'-10"	26'-11⅜"	16'-5"	48'-6½"
18	14'-5"	11'-0"	24'-11"	16'-5"	6'-3"	8'-3½"	7'-4½"	4'-6⅞"	6'-0"	30'-3⅞"	18'-5"	48'-6½"
19	14'-5"	13'-0"	28'-3"	18'-5"	7'-0⅞"	9'-4½"	8'-3½"	4'-10⅞"	6'-3"	33'-4⅞"	20'-5"	48'-6½"
20	14'-5"	14'-6"	31'-6"	21'-0"	7'-10½"	10'-6"	8'-8½"	4'-6⅞"	6'-7"	36'-9⅜"	22'-6"	48'-6½"

Design no.	TWO LONG WINGS — REINFORCING: S D1 BARS LENGTH	NO	D2 BARS LENGTH	NO	S D3 BARS SIZE	LENGTH	NO	D4 BARS SIZE	LENGTH	NO	D5 BARS SIZE	LENGTH	NO	D6 BARS SIZE	LENGTH	NO	E1 BARS SIZE	LENGTH	NO	E2 BARS SIZE	LENGTH	NO	E3 BARS SIZE	LENGTH	NO	F1 BARS SIZE	LENGTH	NO	F2 BARS SIZE	LENGTH	NO	G BARS SIZE	LENGTH	NO
1	6'-3"	24	3'-4" to 6'-1"	24	#4	3'-4" to 6'-1"	24	#4	3'-4" to 6'-1"	24	#4	5'-11"	60	#4	3'-8"	60	#4	13'-11"	8	#4	11'-10" to 11'-8"	16	#4	12'-6"	48	#4	2'-10" to 4'-8"	4	#4	4'-10"	20	#4	14'-6"	40
2	8'-3"	30	4'-6" to 8'-0"	24	#4	8'-3"	33	#4	4'-6" to 8'-0"	24	#4	7'-1"	72	#4	3'-8"	72	#4	17'-3"	12	#4	14'-2" to 17'-0"	20	#4	15'-0"	60	#4	2'-10" to 5'-3"	5	#4	5'-5"	20	#4	17'-5"	40
3	9'-3"	38	5'-2" to 9'-8"	24	#4	9'-3"	38	#4	5'-2" to 9'-8"	24	#4	7'-9"	88	#4	3'-8"	88	#4	20'-7"	16	#4	16'-5" to 20'-1"	24	#4	17'-6"	72	#4	2'-10" to 5'-11"	6	#4	6'-0"	20	#4	20'-1"	40
4	11'-3"	44	5'-10" to 11'-1"	24	#5	11'-3"	44	#5	5'-10" to 11'-1"	24	#5	8'-5"	100	#5	4'-1"	100	#4	24'-0"	20	#4	2'-9" to 18'-9"	28	#4	23'-4"	88	#4	2'-10" to 6'-5"	6	#4	6'-7"	24	#4	24'-4"	40
5	6'-4"	24	3'-4" to 6'-1"	24	#4	6'-4"	24	#4	3'-4" to 6'-1"	24	#4	5'-11"	60	#4	3'-8"	60	#4	13'-11"	8	#4	11'-10" to 11'-8"	16	#4	13'-6"	48	#4	2'-10" to 4'-8"	4	#4	4'-10"	20	#4	14'-6"	40
6	8'-4"	30	4'-6" to 8'-1"	24	#4	8'-4"	30	#4	4'-6" to 8'-1"	24	#4	7'-1"	72	#4	3'-8"	72	#4	17'-3"	12	#4	14'-2" to 17'-0"	20	#4	16'-3"	60	#4	2'-10" to 5'-3"	5	#4	5'-5"	20	#4	17'-5"	40
7	9'-3"	38	5'-3" to 9'-9"	24	#4	9'-3"	38	#4	5'-3" to 9'-9"	24	#4	7'-9"	88	#4	3'-8"	88	#4	20'-7"	16	#4	16'-5" to 20'-1"	24	#4	17'-6"	72	#4	2'-10" to 5'-11"	6	#4	6'-0"	20	#4	20'-1"	40
8	11'-3"	44	5'-11" to 11'-2"	24	#5	11'-3"	44	#5	5'-11" to 11'-2"	24	#5	8'-6"	100	#5	4'-1"	100	#4	24'-0"	20	#4	2'-9" to 18'-9"	28	#4	23'-4"	88	#4	2'-10" to 6'-5"	6	#4	6'-7"	24	#4	24'-4"	40
9	6'-4"	24	3'-4" to 6'-1"	24	#4	6'-4"	24	#4	3'-4" to 6'-1"	24	#4	5'-11"	60	#4	3'-8"	60	#4	13'-11"	8	#4	11'-10" to 11'-8"	16	#4	13'-6"	48	#4	2'-10" to 4'-8"	4	#4	4'-10"	20	#4	14'-6"	40
10	8'-4"	30	4'-7" to 8'-1"	24	#4	8'-4"	30	#4	4'-7" to 8'-1"	24	#4	7'-1"	72	#4	3'-8"	72	#4	17'-3"	12	#4	14'-2" to 17'-0"	20	#4	16'-3"	60	#4	2'-10" to 5'-3"	5	#4	5'-5"	20	#4	17'-5"	40
11	9'-3"	38	5'-3" to 9'-9"	24	#4	9'-3"	38	#4	5'-3" to 9'-9"	24	#4	7'-9"	88	#4	3'-8"	88	#4	20'-7"	16	#4	16'-5" to 20'-1"	24	#4	17'-6"	72	#4	2'-10" to 5'-11"	6	#4	6'-0"	20	#4	20'-1"	40
12	11'-3"	44	5'-11" to 11'-2"	24	#5	11'-3"	44	#5	5'-11" to 11'-2"	24	#5	8'-6"	100	#5	4'-1"	100	#4	24'-0"	20	#4	2'-9" to 18'-9"	28	#4	23'-4"	88	#4	2'-10" to 6'-5"	6	#4	6'-7"	24	#4	24'-4"	40
13	6'-3"	24	3'-4" to 6'-1"	24	#4	6'-3"	24	#4	3'-4" to 6'-1"	24	#4	5'-11"	60	#4	3'-8"	60	#4	13'-11"	8	#4	11'-10" to 11'-8"	16	#4	13'-6"	48	#4	2'-10" to 4'-8"	4	#4	4'-10"	20	#4	14'-6"	40
14	8'-3"	30	4'-6" to 8'-0"	24	#4	8'-3"	33	#4	4'-6" to 8'-0"	24	#4	7'-1"	72	#4	3'-8"	72	#4	17'-3"	12	#4	14'-2" to 17'-0"	20	#4	15'-0"	60	#4	2'-10" to 5'-3"	5	#4	5'-5"	20	#4	17'-5"	40
15	9'-3"	38	5'-2" to 9'-8"	24	#4	9'-3"	38	#4	5'-2" to 9'-8"	24	#4	7'-9"	88	#4	3'-8"	88	#4	20'-7"	16	#4	16'-5" to 20'-1"	24	#4	17'-6"	72	#4	2'-10" to 5'-11"	6	#4	6'-0"	20	#4	20'-1"	40
16	11'-3"	44	5'-10" to 11'-1"	24	#5	11'-3"	44	#5	5'-10" to 11'-1"	24	#5	8'-5"	100	#5	4'-1"	100	#4	24'-0"	20	#4	2'-9" to 18'-9"	28	#4	23'-4"	88	#4	2'-10" to 6'-5"	6	#4	6'-7"	24	#4	24'-4"	40
17	6'-3"	24	3'-4" to 6'-1"	24	#4	6'-3"	24	#4	3'-4" to 6'-1"	24	#4	5'-11"	60	#4	3'-8"	60	#4	13'-11"	8	#4	11'-10" to 11'-8"	16	#4	13'-6"	48	#4	2'-10" to 4'-8"	4	#4	4'-10"	20	#4	14'-6"	40
18	8'-3"	30	4'-6" to 8'-0"	24	#4	8'-3"	33	#4	4'-6" to 8'-0"	24	#4	7'-1"	72	#4	3'-8"	72	#4	17'-3"	12	#4	14'-2" to 17'-0"	20	#4	15'-0"	60	#4	2'-10" to 5'-3"	5	#4	5'-5"	20	#4	17'-5"	40
19	9'-3"	38	5'-2" to 9'-8"	24	#4	9'-3"	38	#4	5'-2" to 9'-8"	24	#4	7'-9"	88	#4	3'-8"	88	#4	20'-7"	16	#4	16'-5" to 20'-1"	24	#4	17'-6"	72	#4	2'-10" to 5'-11"	6	#4	6'-0"	20	#4	20'-1"	40
20	11'-3"	44	5'-10" to 11'-1"	24	#5	11'-3"	44	#5	5'-10" to 11'-1"	24	#5	8'-5"	100	#5	4'-1"	100	#4	24'-0"	20	#4	2'-9" to 18'-9"	28	#4	23'-4"	88	#4	2'-10" to 6'-5"	6	#4	6'-7"	24	#4	24'-4"	40

Design no.	TWO SHORT WINGS — REINFORCING: S D1 BARS LENGTH	NO	D2 BARS LENGTH	NO	S D3 BARS SIZE	LENGTH	NO	D4 BARS SIZE	LENGTH	NO	D5 BARS SIZE	LENGTH	NO	D6 BARS SIZE	LENGTH	NO	E1 BARS SIZE	LENGTH	NO	E2 BARS SIZE	LENGTH	NO	E3 BARS SIZE	LENGTH	NO	F1 BARS SIZE	LENGTH	NO	F2 BARS SIZE	LENGTH	NO	G BARS SIZE	LENGTH	NO
1	6'-3"	24	3'-4" to 6'-1"	24	#4	3'-4" to 6'-1"	24	#4	3'-4" to 6'-1"	24	#4	5'-11"	60	#4	3'-8"	60	#4	13'-11"	8	#4	11'-10" to 11'-8"	16	#4	12'-6"	48	#4	2'-10" to 4'-8"	4	#4	4'-10"	20	#4	14'-6"	40
2	8'-3"	30	4'-6" to 8'-0"	24	#4	8'-3"	33	#4	4'-6" to 8'-0"	24	#4	7'-1"	72	#4	3'-8"	72	#4	17'-3"	12	#4	14'-2" to 17'-0"	20	#4	15'-0"	60	#4	2'-10" to 5'-3"	5	#4	5'-5"	20	#4	17'-5"	40
3	9'-3"	38	5'-2" to 9'-8"	24	#4	9'-3"	38	#4	5'-2" to 9'-8"	24	#4	7'-9"	88	#4	3'-8"	88	#4	20'-7"	16	#4	16'-5" to 20'-1"	24	#4	17'-6"	72	#4	2'-10" to 5'-11"	6	#4	6'-0"	20	#4	20'-1"	40
4	11'-3"	44	5'-10" to 11'-1"	24	#5	11'-3"	44	#5	5'-10" to 11'-1"	24	#5	8'-5"	100	#5	4'-1"	100	#4	24'-0"	20	#4	2'-9" to 18'-9"	28	#4	23'-4"	88	#4	2'-10" to 6'-5"	6	#4	6'-7"	24	#4	24'-4"	40
5	6'-4"	24	3'-4" to 6'-1"	24	#4	6'-4"	24	#4	3'-4" to 6'-1"	24	#4	5'-11"	60	#4	3'-8"	60	#4	13'-11"	8	#4	11'-10" to 11'-8"	16	#4	13'-6"	48	#4	2'-10" to 4'-8"	4	#4	4'-10"	20	#4	14'-6"	40
6	8'-4"	30	4'-6" to 8'-1"	24	#4	8'-4"	30	#4	4'-6" to 8'-1"	24	#4	7'-1"	72	#4	3'-8"	72	#4	17'-3"	12	#4	14'-2" to 17'-0"	20	#4	16'-3"	60	#4	2'-10" to 5'-3"	5	#4	5'-5"	20	#4	17'-5"	40
7	9'-3"	38	5'-3" to 9'-9"	24	#4	9'-3"	38	#4	5'-3" to 9'-9"	24	#4	7'-9"	88	#4	3'-8"	88	#4	20'-7"	16	#4	16'-5" to 20'-1"	24	#4	17'-6"	72	#4	2'-10" to 5'-11"	6	#4	6'-0"	20	#4	20'-1"	40
8	11'-3"	44	5'-11" to 11'-2"	24	#5	11'-3"	44	#5	5'-11" to 11'-2"	24	#5	8'-6"	100	#5	4'-1"	100	#4	24'-0"	20	#4	2'-9" to 18'-9"	28	#4	23'-4"	88	#4	2'-10" to 6'-5"	6	#4	6'-7"	24	#4	24'-4"	40
9	6'-4"	24	3'-4" to 6'-1"	24	#4	6'-4"	24	#4	3'-4" to 6'-1"	24	#4	5'-11"	60	#4	3'-8"	60	#4	13'-11"	8	#4	11'-10" to 11'-8"	16	#4	13'-6"	48	#4	2'-10" to 4'-8"	4	#4	4'-10"	20	#4	14'-6"	40
10	8'-4"	30	4'-7" to 8'-1"	24	#4	8'-4"	30	#4	4'-7" to 8'-1"	24	#4	7'-1"	72	#4	3'-8"	72	#4	17'-3"	12	#4	14'-2" to 17'-0"	20	#4	16'-3"	60	#4	2'-10" to 5'-3"	5	#4	5'-5"	20	#4	17'-5"	40
11	9'-3"	38	5'-3" to 9'-9"	24	#4	9'-3"	38	#4	5'-3" to 9'-9"	24	#4	7'-9"	88	#4	3'-8"	88	#4	20'-7"	16	#4	16'-5" to 20'-1"	24	#4	17'-6"	72	#4	2'-10" to 5'-11"	6	#4	6'-0"	20	#4	20'-1"	40
12	11'-3"	44	5'-11" to 11'-2"	24	#5	11'-3"	44	#5	5'-11" to 11'-2"	24	#5	8'-6"	100	#5	4'-1"	100	#4	24'-0"	20	#4	2'-9" to 18'-9"	28	#4	23'-4"	88	#4	2'-10" to 6'-5"	6	#4	6'-7"	24	#4	24'-4"	40
13	6'-3"	24	3'-4" to 6'-1"	24	#4	6'-3"	24	#4	3'-4" to 6'-1"	24	#4	5'-11"	60	#4	3'-8"	60	#4	13'-11"	8	#4	11'-10" to 11'-8"	16	#4	13'-6"	48	#4	2'-10" to 4'-8"	4	#4	4'-10"	20	#4	14'-6"	40
14	8'-3"	30	4'-6" to 8'-0"	24	#4	8'-3"	33	#4	4'-6" to 8'-0"	24	#4	7'-1"	72	#4	3'-8"	72	#4	17'-3"	12	#4	14'-2" to 17'-0"	20	#4	15'-0"	60	#4	2'-10" to 5'-3"	5	#4	5'-5"	20	#4	17'-5"	40
15	9'-3"	38	5'-2" to 9'-8"	24	#4	9'-3"	38	#4	5'-2" to 9'-8"	24	#4	7'-9"	88	#4	3'-8"	88	#4	20'-7"	16	#4	16'-5" to 20'-1"	24	#4	17'-6"	72	#4	2'-10" to 5'-11"	6	#4	6'-0"	20	#4	20'-1"	40
16	11'-3"	44	5'-10" to 11'-1"	24	#5	11'-3"	44	#5	5'-10" to 11'-1"	24	#5	8'-5"	100	#5	4'-1"	100	#4	24'-0"	20	#4	2'-9" to 18'-9"	28	#4	23'-4"	88	#4	2'-10" to 6'-5"	6	#4	6'-7"	24	#4	24'-4"	40
17	6'-3"	24	3'-4" to 6'-1"	24	#4	6'-3"	24	#4	3'-4" to 6'-1"	24	#4	5'-11"	60	#4	3'-8"	60	#4	13'-11"	8	#4	11'-10" to 11'-8"	16	#4	13'-6"	48	#4	2'-10" to 4'-8"	4	#4	4'-10"	20	#4	14'-6"	40
18	8'-3"	30	4'-6" to 8'-0"	24	#4	8'-3"	33	#4	4'-6" to 8'-0"	24	#4	7'-1"	72	#4	3'-8"	72	#4	17'-3"	12	#4	14'-2" to 17'-0"	20	#4	15'-0"	60	#4	2'-10" to 5'-3"	5	#4	5'-5"	20	#4	17'-5"	40
19	9'-3"	38	5'-2" to 9'-8"	24	#4	9'-3"	38	#4	5'-2" to 9'-8"	24	#4	7'-9"	88	#4	3'-8"	88	#4	20'-7"	16	#4	16'-5" to 20'-1"	24	#4	17'-6"	72	#4	2'-10" to 5'-11"	6	#4	6'-0"	20	#4	20'-1"	40
20	11'-3"	44	5'-10" to 11'-1"	24	#5	11'-3"	44	#5	5'-10" to 11'-1"	24	#5	8'-5"	100	#5	4'-1"	100	#4	24'-0"	20	#4	2'-9" to 18'-9"	28	#4	23'-4"	88	#4	2'-10" to 6'-5"	6	#4	6'-7"	24	#4	24'-4"	40

Design no.	TWO CURTAIN WALLS — REINFORCING: S CW1 BARS LENGTH	CW2 BARS LENGTH	CW3 BARS NO.	CW4 BARS NO.	TWO CURBS REINF.: H1 BARS LENGTH	H2 BARS NO.	QUANTITIES* CONC. ICY	REINF. LBS	Design no.
1	67'-5"	66'-7"	12	130	35'-7"	80	41.5	3925	1
2	72'-7"	71'-5"	142	140	35'-7"	80	52.0	4723	2
3	78'-3"	77'-5"	152	152	35'-7"	80	63.4	5603	3
4	83'-5"	82'-11"	164	162	35'-7"	80	75.8	7543	4
5	72'-7"	71'-5"	142	140	43'-5"	90	43.4	4100	5
6	77'-5"	76'-11"	152	150	43'-5"	90	53.9	4918	6
7	83'-5"	82'-7"	164	162	43'-5"	90	65.3	5800	7
8	88'-11"	88'-1"	174	172	43'-5"	90	77.1	7743	8
9	94'-2"	93'-4"	184	184	43'-5"	90	91.2	10090	9
10	84'-8"	83'-10"	166	164	50'-8"	104	56.3	5160	10
11	90'-4"	89'-6"	178	176	50'-8"	104	67.7	6060	11
12	95'-10"	95'-0"	188	186	50'-8"	104	80.2	7985	12
13	101'-1"	100'-3"	198	196	50'-8"	104	93.4	10335	13
14	106'-5"	105'-5"	210	208	50'-8"	104	110.4	14350	14
15	89'-11"	89'-1"	176	174	55'-11"	114	58.2	5359	15
16	95'-7"	94'-9"	188	186	55'-11"	114	69.6	6240	16
17	101'-1"	100'-3"	198	196	55'-11"	114	82.1	8199	17
18	106'-5"	105'-6"	210	208	55'-11"	114	95.6	10560	18
19	112'-0"	111'-2"	220	218	55'-11"	114	112.4	14570	19
20	117'-6"	116'-8"	232	230	55'-11"	114	128.6	19480	20

* Wing Quantities Include Wing footings, Curtain walls and Curbs.

DESIGN DATA

Class "AA" Concrete f'c = 4000 psi
Reinforcing Steel (Grade 60) fy = 60000 psi
Loading: HS 20
Design: Load Factor Design

** Per Linear foot along ℄ Interior wall

Design no.	Clear Span	Clear Height	Bridge Length	BARREL DIMENSIONS T1	T2	T3	Y	BARREL REINFORCING: A1 BARS SIZE	LENGTH	A2 BARS SIZE	LENGTH	A3 BARS SIZE	LENGTH	A4 BARS SIZE	LENGTH	A5 BARS SIZE	LENGTH	NO	A6 BARS SIZE	LENGTH	NO	A7 BARS SIZE	LENGTH	NO	A8 BARS SIZE	LENGTH	NO	B1 BARS SIZE	LENGTH	B2 BARS SIZE	LENGTH	B3 BARS SIZE	LENGTH	B4 BARS SIZE	LENGTH	℄ BARS SIZE	LENGTH	QUANTITIES ** CONC. ICY	REINF. LBS	Design no.
1	9'-5"	4'-6"	37'-6½"	11½"	1'-0⅞"	1'-0"	6'-6½"	#5	13'-6"	#5	32'-2"	#4	32'-2"	#5	32'-2"	#5	2'-4" to 31'-9"	35	#5	1'-8" to 31'-1"	35	#4	1'-8" to 31'-1"	35	#6	1'-8" to 31'-1"	35	#4	5'-1"	#5	6'-5"	#6	7'-4"	#4	3'-4"	#7	137	3.10	537,150	1
2	9'-5"	5'-6"	37'-6½"	11½"	1'-0⅞"	1'-0"	10'-0¼"	#5	13'-6"	#5	32'-2"	#4	32'-2"	#5	32'-2"	#5	2'-4" to 31'-9"	35	#5	1'-8" to 31'-1"	35	#4	1'-8" to 31'-1"	35	#6	1'-8" to 31'-1"	35	#4	5'-1"	#5	6'-5"	#6	7'-4"	#4	3'-4"	#7	145	3.40	566,870	2
3	9'-5"	6'-6"	37'-6½"	11½"	1'-0⅞"	1'-0"	10'-0¼"	#5	13'-6"	#5	32'-2"	#4	32'-2"	#5	32'-2"	#5	2'-4" to 31'-9"	35	#5	1'-8" to 31'-1"	35	#4	1'-8" to 31'-1"	35	#6	1'-8" to 31'-1"	35	#4	5'-1"	#5	5'-11"	#6	7'-4"	#4	3'-4"	#7	153	3.62	590,496	3
4	9'-5"	7'-6"	37'-6½"	11½"	1'-0⅞"	1'-0"	11'-6¼"	#6	13'-6"	#5	32'-2"	#4	32'-2"	#6	32'-2"	#5	2'-4" to 31'-9"	35	#6	1'-8" to 31'-1"	35	#4	1'-8" to 31'-1"	35	#6	1'-8" to 31'-1"	35	#4	10'-1"	#5	11'-5"	#6	7'-4"	#4	3'-4"	#7	161	3.84	614,122	4
5	11'-0"	4'-6"	42'-8½"	11½"	1'-0"	1'-1"	1'-0"	#5	6'-7"	#6	38'-5"	#5	38'-8"	#5	38'-8"	#5	2'-6" to 36'-3"	40	#6	1'-10" to 35'-7"	40	#6	1'-10" to 35'-7"	40	#6	1'-10" to 35'-7"	40	#4	5'-2"	#5	6'-5"	#6	7'-4"	#4	3'-4"	#7	153	3.53	651,784	5
6	11'-0"	6'-6"	42'-8½"	11½"	1'-0"	1'-1"	1'-0"	#5	8'-7"	#6	38'-5"	#6	38'-8"	#6	38'-8"	#6	2'-6" to 36'-3"	40	#6	1'-10" to 35'-7"	40	#6	1'-10" to 35'-7"	40	#6	1'-10" to 35'-7"	40	#4	7'-2"	#5	8'-5"	#6	7'-4"	#4	3'-4"	#7	160	3.82	715,161	6
7	11'-0"	8'-0"	42'-8½"	11½"	1'-0"	1'-1"	1'-0"	#5	10'-1"	#6	38'-5"	#6	38'-8"	#6	38'-8"	#6	2'-6" to 36'-3"	40	#6	1'-10" to 35'-7"	40	#6	1'-10" to 35'-7"	40	#6	1'-10" to 35'-7"	40	#4	8'-8"	#5	10'-0"	#6	7'-4"	#4	3'-4"	#7	168	4.05	778,787	7
8	11'-0"	9'-6"	42'-8½"	11½"	1'-0"	1'-1"	1'-0"	#5	11'-7"	#6	38'-5"	#6	38'-8"	#6	38'-8"	#6	2'-6" to 36'-3"	40	#6	1'-10" to 35'-7"	40	#6	1'-10" to 35'-7"	40	#6	1'-10" to 35'-7"	40	#4	10'-2"	#5	11'-6"	#6	7'-4"	#4	3'-4"	#7	176	4.27	762,413	8
9	11'-0"	11'-0"	42'-8½"	11½"	1'-0"	1'-1"	1'-0"	#5	13'-1"	#6	38'-5"	#6	38'-8"	#6	38'-8"	#6	2'-6" to 36'-3"	40	#6	1'-10" to 35'-7"	40	#6	1'-10" to 35'-7"	40	#6	1'-10" to 35'-7"	40	#5	11'-8"	#5	13'-0"	#6	7'-4"	#4	3'-4"	#7	184	4.49	836,450	9
10	13'-0"	6'-6"	49'-8"	1'-0⅝"	1'-1"	1'-0"	7'-7½"	#7	44'-4"	#6	42'-8"	#5	42'-8"	#7	42'-8"	#7	2'-7" to 42'-5"	47	#6	1'-9" to 41'-7"	47	#6	1'-9" to 41'-7"	47	#6	1'-9" to 41'-7"	47	#4	7'-2"	#5	8'-6"	#6	7'-4"	#4	3'-4"	#7	175	4.39	908,162	10
11	13'-0"	8'-0"	49'-8"	1'-0⅝"	1'-1"	1'-0"	8'-7½"	#7	44'-4"	#6	42'-8"	#6	42'-8"	#7	42'-8"	#7	2'-7" to 42'-5"	47	#6	1'-9" to 41'-7"	47	#6	1'-9" to 41'-7"	47	#6	1'-9" to 41'-7"	47	#4	8'-8"	#5	10'-0"	#6	7'-4"	#4	3'-4"	#7	183	4.61	934,572	11
12	13'-0"	9'-6"	49'-8"	1'-0⅝"	1'-1"	1'-0"	9'-7½"	#7	44'-4"	#6	42'-8"	#6	42'-8"	#7	42'-8"	#7	2'-7" to 42'-5"	47	#6	1'-9" to 41'-7"	47	#6	1'-9" to 41'-7"	47	#6	1'-9" to 41'-7"	47	#4	10'-2"	#5	11'-6"	#6	7'-4"	#4	3'-4"	#7	191	4.83	960,962	12
13	13'-0"	11'-0"	49'-8"	1'-0⅝"	1'-1"	1'-0"	10'-7½"	#7	44'-4"	#6	42'-8"	#6	42'-8"	#7	42'-8"	#7	2'-7" to 42'-5"	47	#6	1'-9" to 41'-7"	47	#6	1'-9" to