

Bid Date 03/18/16

**** ESTIMATING BAR LIST ****

[illegible]

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** ESTIMATING BAR LIST **

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
24															
25	EXCLUSIONS:														
26	1.REBAR WELDED TO STRUCTURAL STEEL														
27	3.PRECAST STRUCTURE,MANHOLE,INLET,ETC.,IF ANY														
28															
29	INCLUSIONS:														
30	1. PILE CAP														
31	2. PILASTER														
32	3. GRADE BEAM														
33	4. COLUMN FOOTING														
34	5. WALL FOOTING														
35	6. CONCRETE WALL														
36	7. CMU WALL														
37	8. SHEAR WALL														
38	9. UPPER LEVEL SLAB														
39															
40	ASSUMPTIONS:														
41															
42	NOTES:														
43	1.REBAR ACCESSORIES:AS PER STANDARD PRACTICE														
44	>PILE CAP PILE CAP														
45	MARK -P-1														
46						9			2	4	#4	7-06	L	4#4 TOP EW	361

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
47						9			2	5	#4	7-06	L	5#5 BOT EW	451
48									9	2	#4	8-08	L	#4 @ 48" O.C STANDEE	104
49 MARK-P-2A															
50									28	6	#5	7-06	H	#5 @ 16"O.C TOP SW	1314
51									28	4	#5	11-00	H	#5 @ 16" O.C TOP LW	1285
52									28	10	#4	7-06	L	10#4 BOT SW	1403
53									28	6	#8	11-00	H	6#8 BOT LW	4934
54									28	2	#4	10-08	L	#4 @ 48" O.C STANDEE	399
55 MARK-P-2B															
56									1	10	#4	7-06	L	10#4 TOP SW	50
57										8	#6	14-06	H	8#6 TOP LW	174
58										14	#4	7-06	L	14#4 BOT SW	70
59										6	#8	14-06	H	6#8 BOT LW	232
60										4	#4	10-08	L	#4 @ 48" O.C STANDEE	29
61 MARK-P-3															
62						20			3	1	#4	5-08	L	#4 @ 18" O.C T 3 WAY	227
63						20			3	1	#4	7-06	L	#4 @ 18" O.C T 3 WAY	301
64						20			3	1	#4	11-00	L	#4 @ 18" O.C T 3 WAY	441
65						20			3	1	#4	9-04	L	#4 @ 18" O.C T 3 WAY	374
66						20			3	1	#8	5-08	H	#8 B 3WAY	908
67						20			3	1	#8	7-06	H	#8 B 3WAY	1201
68						20			3	1	#8	11-00	H	#8 B 3WAY	1762
69						20			3	1	#8	9-04	H	#8 B 3WAY	1495

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
70									20	4	#4	10-08	L	#4 @ 48" O.C STANDEE	570
71 MARK-P-4															
72						5			2	7	#5	11-00	H	7#5 TOP EW	803
73						5			2	8	#9	11-00	H	8#9 BOT EF	2992
74									5	4	#4	10-08	L	#4 @ 48" O.C STANDEE	143
75 MARK-P-5															
76						3			2	7	#5	12-06	H	#5 @ 16" O.C TOP EW	548
77						3			2	14	#8	12-06	L	14#4 BOT EW	2803
78									3	4	#8	10-09	L	#4 @ 48" O.C STANDEE	344
79 MARK-P-6															
80									1	8	#5	11-00	H	#5 @ 18" O.C TOP SW	92
81										6	#6	14-06	H	#5 @ 18" O.C TOP LW	131
82										13	#8	11-00	H	13#8 BOT SW	382
83										14	#9	14-06	H	14#9 BOT LW	690
84										4	#4	10-08	L	#4 @ 48" O.C STANDEE	29
85 LATERAL PILE CAP															
86 MARK-LPC-1															
87									1	16	#7	38-05	H	#7 @ 12" O.C TOP LW	1256
88										9	#7	15-07	H	#7 @ 12" O.C TOP LW	287
89										21	#7	38-05	H	#7 @ 9" O.C BOT LW	1649
90										12	#7	15-07	H	#7 @ 9" O.C BOT LW	382
91									2	23	#7	19-00	H	#7 @ 12" O.C T&B SW	1786
92									2	12	#7	28-02	H	#7 @ 12" O.C T&B SW	1382

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
93									2	1	#7	24-02		#7 TOP ADDL	99
94									2	1	#7	15-00		#7 TOP ADDL	61
95									2	21	#9	12-00		#9 @ 9" O.C BOT ADDL	1714
96									2	16	#8	12-00		#8 @ 12" O.C TOP ADDL	1025
97										42	#4	10-08	L	#4 @ 48" O.C STANDEE	299
98 MARK-LPC-2															
99									1	35	#7	32-05	H	#7 @ 12" O.C TOP SW	2319
100										29	#7	38-03	H	#7 @ 12" O.C TOP LW	2267
101										46	#8	32-05	H	#8 @ 9" O.C BOT SW	3981
102										39	#8	38-03	H	#8 @ 9" O.C BOT LW	3983
103									2	2	#8	10-00		2#8 BOT ADDL LW	107
104									2	2	#7	10-00		2#7 TOP ADDL SW	82
105									2	2	#8	10-00		2#8 BOT ADDL SW	107
106									2	2	#7	10-00		2#7 TOP ADDL SW	82
107									2	2	#7	10-00		2#7 TOP ADDL LW	82
108									2	2	#8	10-00		2#8 BOT ADDL SW	107
109									2	2	#7	34-03		2#7 TOP ADDL LW	280
110									1	72	#4	11-08	L	#4 @ 48" O.C STANDEE	561
111 MARK-LPC-3															
112										8	#7	39-04	H	8#7 TOP LW	643
113										8	#9	39-04	H	8#9 BOT LW	1070
114									2	36	#6	9-00	H	#6 @ 12" O.C T&B SW	973
115									2	8	#7	9-00		8#7 BOT ADDL	294

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
116										18	#4	10-08	L	#4 @ 48" O.C STANDEE	128
117 MARK-LPC-4															
118									2	13	#6	14-06	H	#6 @ 12" O.C T&B SW	566
119									2	11	#6	16-06	H	#6 @ 12" O.C T&B LW	545
120										9	#4	10-08	L	#4 @ 48" O.C STANDEE	64
121 MARK-LPC-5															
122										32	#7	22-02	H	#7 @ 12" O.C TOP SW	1450
123										42	#7	22-02	H	#7 @ 9" O.C BOT SW	1903
124									2	19	#7	34-11	H	#7 @ 12" O.C T&B LW	2712
125									2	2	#7	10-00		2#7 BOT ADDL	82
126									1	10	#7	22-02		10#7 BOT ADDL	453
127									1	32	#4	10-08	L	#4 @ 48" O.C STANDEE	228
128 >CON PILASTER CONCRETE PILASTER															
129 MARK-CP1															
130									38	12	#6	7-02	H	12#6 D/V	4909
131									38	4	#3	10-00	L	#3 @12"O.C TIES	572
132						38			2	4	#3	3-04	L	#3 @12"O.C LINKS	381
133 MARK-CP2															
134									14	8	#5	7-00	H	8#5 D/V	818
135									14	4	#3	6-08	L	#3 @12"O.C TIES	140
136						14			2	4	#3	2-04	L	#3 @12"O.C LINKS	98
137 MARK-CP3															
138									10	16	#6	7-02	H	16#6 DWL	1722

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
162										2	#7	11-02	H	#7 COR DWL	46
163										16	#4	7-04	H	#5 @ 6" O.C DWL	78
164 MARK-SW8															
165										2	#7	11-02	H	#7 COR DWL	46
166										20	#5	8-01	H	#5 @ 6" O.C DWL	169
167 MARK-SW9															
168										2	#7	11-02	H	#7 COR DWL	46
169										16	#5	8-01	H	#5 @ 6" O.C DWL	135
170 MARK-SW10															
171										2	#7	11-02	H	#7 COR DWL	91
172										27	#4	7-04	H	#4 @ 8" O.C DWL	132
173 MARK-SW11															
174										2	#8	11-10	H	#8 COR DWL	126
175										25	#5	8-01	H	#5 @ 12" O.C DWL	422
176 MARK-SW12															
177										2	#8	11-10	H	#8 COR DWL	126
178										24	#6	8-06	H	#6 @ 6" O.C DWL	613
179 MARK-SW13															
180										2	#8	11-10	H	#8 COR DWL	253
181										24	#8	8-06	H	#6 @ 6" O.C DWL	1089
182 MARK-SW14															
183										2	#7	11-02	H	#7 COR DWL	183
184										56	#5	8-01	H	#5 @ 6" O.C DWL	944

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
185	MARK-SW15														
186									2	6	#7	11-02	H	#7 COR DWL	274
187									2	45	#5	8-01	H	#5 @ 6" O.C DWL	759
188	MARK-SW16														
189									2	4	#7	11-02	H	#7 COR DWL	183
190									2	22	#5	8-01	H	#5 @ 12" O.C DWL	371
191	MARK-SW17														
192									2	2	#8	11-10	H	#8 COR DWL	126
193									2	22	#5	8-01	H	#5 @ 6" O.C DWL	371
194	MARK-SW-18														
195									2	3	#7	11-02	H	#7 COR DWL	137
196									2	29	#5	8-01	H	#5 @ 12" O.C DWL	489
197	MARK-SW19														
198									2	4	#7	11-02	H	#7 DWL	183
199									2	8	#5	8-01		#5 @ 6" O.C DWL	135
200	MARK-SW20														
201									2	4	#7	11-02	H	#7 DWL	183
202									2	8	#4	7-04		#4 @ 10" O.C DWL	78
203	MARK-SW21														
204									2	2	#7	11-02	H	#7 COR DWL	91
205									2	22	#5	8-01	H	#5 @ 12" O.C DWL	371
206	>GB & TB GRADE BEAM & TIE BEAM														
207	MARK-GB1 (1105 LFT)														

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208						35			2	4	#6	40-00		4#6 T&B	16822
209										1330	#3	8-00	L	#3 STIRR	4001
210						30			2	4	#6	9-04	H	4#6 T&B COR	3364
211 MARK-GB2 (230 LFT)															
212						7			2	5	#6	40-00		5#6 T&B	4206
213										275	#3	10-00	L	#3 STIRR	1034
214									2	1	#6	9-04	H	4#6 T&B COR	28
215 MARK-TB1 (265 LFT)															
216						8			2	2	#6	40-00		2#6 T&B	1923
217										530	#3	4-00	L	#3 @6"O.C STIRR	797
218						6			2	2	#6	9-04	H	2#6 T&B COR	336
219 MARK-TB2 (435 LFT)															
220						13			2	2	#7	40-00		2#7 T&B	4252
221										655	#3	5-04	L	#3 @8"O.C STIRR	1313
222						4			2	2	#7	13-06	H	7#6 T&B COR	442
223 MARK-TB3 (1020 LFT)															
224						30			2	2	#8	40-00		2#8 T&B	12816
225										1360	#3	6-00	L	#3 @9"O.C STIRR	3068
226						15			2	2	#8	15-06	H	2#8 T&B COR	2483
227															
228				>COL FOOTING										COLUMN FOOTING	
229 MARK-F1															
230									2	7	#6	5-00		7#6 BOT SW	105

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
231									2	5	#6	7-00		5#6 BOT LW	105
232	>WALL FOOTING			WALL FOOTING											
233	MARK-SF1 (87 LFT)														
234									3	6	#4	40-00		6#4 TOP CONT	481
235									3	6	#5	40-00		6#5 BOT CONT	751
236										88	#5	5-06		#5 @12"O.C TRANS	505
237									23	2	#4	6-08	L	#4 @48"O.C STANDEE	205
238	MARK-SF2 (50 LFT)														
239									2	3	#5	40-00		3#5 T&B CONT	250
240									14	2	#4	6-04	L	#4 @48"O.C STANDEE	118
241	MARK-SF3 (85 LFT)														
242									3	2	#4	40-00		2#4 BOT CONT	160
243	REFER-7/S3.02 (330 LFT)														
244									10	4	#4	40-00		4#4 CONT	1069
245									2	220	#4	3-00	L	#4 @18"O.C T&B TRANS	882
246										85	#4	5-08	L	#4 @48"O.C STANDEE	322
247									2	4	#4	6-00	L	4#4 COR	32
248										125	#5	5-04		#5 @32"O.C CMU D/V	695
249									10	1	#4	40-00		1#4 CONT	267
250										125	#4	3-04	L	#4 @32"O.C S DWL	278
251	>CONC WALL			CONCRETE WALL											
252	REFER SEC-13/S3.02 (GB -3'-0")														
253										40	#4	5-08	L	#4 @24"O.C D/V	151

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
254									2	1	#4	40-00		1#4 CONT	53
255										30	#4	4-06	L	#4 @32"O.C S DWL	90
256 REFER SEC-01/S3.02 (GB -4'-0")															
257										45	#4	6-08	L	#4 @24"O.C D/V	200
258									3	1	#4	40-00		1#4 CONT	80
259										35	#4	4-06	L	#4 @32"O.C S DWL	105
260 REFER SEC-03/S3.02 (GB -6'-0")															
261									2	55	#4	8-08	L	#4 @12"O.C D/V EF	637
262						2			2	6	#4	40-00		#4 @12"O.C HOR EF	641
263									1	1	#4	40-00		1#4 CONT	27
264										15	#4	4-06	L	#4 @48"O.C S DWL	45
265 REFER-SEC-03/S3.02 (GB -4'-0")															
266									2	300	#4	6-08	L	#4 @12"O.C D/V EF	2672
267						10			2	4	#4	40-00		#4 @12"O.C HOR EF	2138
268									10	1	#4	40-00		1#4 CONT	267
269										75	#4	4-06	L	#4 @48"O.C S DWL	225
270 REFER-SEC-03/S3.02 (GB -3'-0")															
271									2	300	#4	5-08	L	#4 @12"O.C D/V EF	2271
272						10			2	3	#4	40-00		#4 @12"O.C HOR EF	1603
273									10	1	#4	40-00		1#4 CONT	267
274										75	#4	4-06	L	#4 @48"O.C S DWL	225
275 REFER-SEC-05/S3.02 (GB -4'-0")															
276									2	120	#4	7-08	L	#4 @12"O.C D/V EF	1229

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277						5			2	4	#4	40-00		#4 @12"O.C HOR EF	1069
278									5	1	#4	40-00		1#4 CONT	134
279										60	#4	4-06	L	#4 @24"O.C S DWL	180
280 >CMU WALL CMU WALL															
281										125	#6	6-01	L	#6 @8" O.C CMU DWL	1142
282										125	#6	27-05		#6 @8" O.C CMU VERT	5147
283									6	1	#5	20-00		1#5 BB	125
284										40	#5	4-10	L	#5 @24" O.C CMU DWL	202
285										40	#5	24-02		#5 @24" O.C CMU VERT	1008
286									6	1	#5	20-00		1#5 BB	125
287 REFER-8/S4.12															
288										25	#4	2-08		#4 @24"O.C VERT	45
289									3	2	#5	20-00		2#5 BB	125
290 CMU PILASTER															
291									2	10	#5	4-10	L	10#5 CMU DWL	101
292									2	10	#5	27-05		10#5 VERT	572
293 >SHEAR WALL SHEAR WALL															
294 MARK-SW-1															
295									2	2	#7	164-00		#7 COR VERT EF	1341
296									2	30	#4	146-00		#4 @12"O.C VERT EF	5852
297									2	130	#4	30-00		#4 @12"O.C HOR EF	5210
298 MARK-SW-2															
299						2			2	2	#7	164-00		#7 COR VERT EF	2682

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300									2	36	#5	52-00		#5 @12"O.C VERT EF	3905
301									2	36	#4	120-00		#4 @12"O.C VERT EF	5772
302									2	130	#4	40-00		#4 @12"O.C HOR EF	6947
303 MARK-SW-3															
304									2	2	#7	164-00		#7 COR VERT EF	1341
305									2	46	#5	28-10		#5 @6"O.C VERT EF	2767
306									2	23	#5	38-00		#5 @12"O.C VERT EF	1823
307									2	23	#4	100-00		#4 @12"O.C VERT EF	3073
308									2	130	#4	23-00		#4 @12"O.C HOR EF	3995
309 MARK-SW-4															
310						2			2	2	#8	28-10		#8 COR VERT EF	616
311									2	2	#7	136-06		#7 COR VERT EF	1116
312									2	38	#5	66-02		#5 @6"O.C VERT EF	5245
313									2	17	#5	16-02		#5 @12"O.C VERT EF	573
314									2	17	#4	83-00		#4 @12"O.C VERT EF	1885
315									2	130	#4	20-00		#4 @12"O.C HOR EF	3474
316 MARK-SW-5															
317									2	2	#7	164-00		#7 COR VERT EF	1341
318									2	50	#4	28-10		#4 @6"O.C VERT EF	1926
319									2	25	#4	136-06		#4 @12"O.C VERT EF	4559
320									2	130	#4	25-00		#4 @12"O.C HOR EF	4342
321 MARK-SW-6															
322									2	2	#7	164-00		#7 COR VERT EF	1341

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323									2	45	#5	28-10		#5 @6"O.C VERT EF	2707
324									2	45	#4	37-04		#4 @6"O.C VERT EF	2244
325									2	23	#4	83-00		#4 @12"O.C VERT EF	2550
326									2	130	#5	22-00		#4 @12"O.C HOR EF	5966
327 MARK-SW-7															
328										2	#7	45-00		#7 COR VERT	184
329										16	#4	45-00		#4 @6"O.C VERT	481
330										50	#4	8-00		#4 @10"O.C HOR	267
331 MARK-SW-8															
332										2	#7	45-00		#7 COR VERT	184
333										20	#5	45-00		#5 @6"O.C VERT	939
334										50	#4	11-00		#4 @10"O.C HOR	367
335 MARK-SW-9															
336									1	2	#7	45-00		#7 COR VERT	184
337										16	#5	45-00		#5 @6"O.C VERT	751
338										50	#4	8-00		#4 @10"O.C HOR	267
339 MARK-SW-10															
340									2	2	#7	45-00		#7 COR VERT	368
341										27	#4	45-00		#4 @8"O.C VERT	812
342										50	#4	18-00		#4 @10"O.C HOR	601
343 MARK-SW-11															
344									2	2	#8	27-00		#8 COR VERT EF	288
345									2	2	#7	117-00		#7 COR VERT EF	957

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
346									2	25	#5	46-00		#5 @12"O.C VERT EF	2399
347									2	25	#4	100-00		#4 @12"O.C VERT EF	3340
348									2	130	#4	25-00		#4 @12"O.C HOR EF	4342
349									2	2	#7	14-00		#7 OPENG ADDL SIDE	114
350									2	1	#5	6-00		#5 OPENG ADDL TOP	13
351									2	2	#5	6-00		#5 DIG	25
352 MARK-SW-12															
353									2	2	#8	47-00		#8 COR VERT EF	502
354									2	2	#7	100-00		#7 COR VERT EF	818
355									2	24	#6	47-00		#6 @6"O.C VERT EF	3389
356									2	24	#5	15-00		#5 @6"O.C VERT EF	751
357									2	12	#4	85-00		#4 @12"O.C VERT EF	1363
358									2	130	#4	12-00		#4 @12"O.C HOR EF	2084
359									8	2	#5	6-00		#5 OPENG ADDL TOP	100
360									2	2	#7	120-00		#7 OPENG ADDL SIDE	981
361						8			2	2	#5	6-00		#5 DIG	200
362 MARK-SW-13															
363									2	2	#8	62-00		#8 COR VERT EF	662
364									2	2	#7	90-00		#7 COR VERT EF	736
365									2	24	#6	47-00		#6 @6"O.C VERT EF	3389
366									2	12	#6	15-08		#6 @12"O.C VERT EF	565
367									2	12	#5	15-00		#5 @12"O.C VERT EF	375
368									2	12	#4	71-00		#4 @12"O.C VERT EF	1138

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**** ESTIMATING BAR LIST ****

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** ESTIMATING BAR LIST **

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
392									2	2	#7	164-00		#7 COR VERT EF	1341
393									2	22	#5	27-08		#5 @12"O.C VERT EF	1270
394									2	22	#4	120-00		#4 @12"O.C VERT EF	3527
395									2	130	#4	22-00		#4 @12"O.C HOR EF	3821
396									2	2	#7	150-00		#7 OPENG ADDL SIDE	1226
397									8	2	#5	6-00		#5 OPENG ADDL TOP	100
398						8			2	2	#5	6-00		#5 DIG	200
399 MARK-SW-17															
400									2	2	#8	23-00		#8 COR VERT EF	246
401									2	2	#7	105-00		#7 COR VERT EF	858
402									2	22	#5	27-08		#5 @6"O.C VERT EF	1270
403									2	12	#5	20-00		#5 @12"O.C VERT EF	501
404									2	12	#4	90-00		#4 @12"O.C VERT EF	1443
405									2	130	#4	12-00		#4 @12"O.C HOR EF	2084
406									2	2	#7	18-00		#7 OPENG ADDL SIDE	147
407									2	1	#5	6-00		#5 OPENG ADDL TOP	13
408									2	2	#5	6-00		#5 DIG	25
409 MARK-SW-18															
410									2	2	#7	164-00		#7 COR VERT EF	1341
411									2	29	#5	42-08		#5 @12"O.C VERT EF	2581
412									2	29	#4	91-03		#4 @12"O.C VERT EF	3535
413									2	130	#4	32-05		#4 @12"O.C HOR EF	5630
414									2	2	#7	164-00		#7 OPENG ADDL SIDE	1341

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** ESTIMATING BAR LIST **

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
415									8	2	#5	6-00		#5 OPENG ADDL TOP	100
416						8			2	2	#5	6-00		#5 DIG	200
417 MARK-SW-19															
418									2	4	#7	36-08		#7 COR VERT EF	600
419									2	8	#5	36-08		#5 @6"O.C VERT EF	612
420									2	41	#4	10-04		#4 @12"O.C HOR EF	566
421									2	2	#5	6-00		#5 OPENG ADDL TOP	25
422						2			2	2	#5	6-00		#5 DIG	50
423 MARK-SW-20															
424									2	4	#7	37-09		#7 COR VERT EF	617
425									2	8	#4	37-09		#4 @10"O.C VERT EF	403
426									2	40	#4	9-02		#4 @12"O.C HOR EF	490
427									2	1	#5	6-00		#5 OPENG ADDL TOP	13
428									2	2	#5	6-00		#5 DIG	25
429 MARK-SW-21															
430									2	2	#7	164-00		#7 COR VERT EF	1341
431									2	22	#5	19-08		#5 @6"O.C VERT EF	903
432									2	11	#4	115-00		#4 @12"O.C VERT EF	1690
433									2	130	#4	10-08		#4 @12"O.C HOR EF	1853
434									2	2	#7	31-08		#7 OPENG ADDL SIDE	259
435									2	1	#5	6-00		#5 OPENG ADDL TOP	13
436									2	2	#5	6-00		#5 DIG	25
437						18			2	130	#4	2-06	L	#4 @12"HOR COR EF	7816

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
461									10	1	#4	40-00		1#4 CONT	267
462										200	#4	4-06	L	#4 @24" S DWL	601
463 REFER-S2.11 SLAB ADDL															
464									33	1	#5	5-00		#5 x5'-0"L RE-END	172
465										23	#4	12-03	L	#4 @12"O.C ADDL	188
466										55	#3	8-00		#3 @12"O.C ADDL	165
467										25	#4	9-07	L	#4 @12"O.C ADDL	160
468										4	#8	43-02		4#8 COUPLER THREADED 461	
469										3	#6	85-08		3#6 ADDL	386
470										4	#7	38-04		4#7 COUPLER THREADED 313	
471										2	#8	27-05		2#8 COUPLER THREADED 146	
472									2	4	#7	31-00		4#7 COUPLER THREADED 507	
473															
474 THIRD FLOOR SLAB															
475									28	1	#4	40-00		1#4 CONT PERI METER	748
476										450	#4	4-06	L	#4 @24" S DWL	1353
477 REFER-SEC-12,13,14/S4.13															
478									10	1	#4	40-00		1#4 CONT	267
479										200	#4	4-06	L	#4 @24" S DWL	601
480 REFER-SEC-18/S4.13															
481										4	#6	10-00		4#6 ADDL	60
482 REFER-S2.12 SLAB ADDL															
483									22	1	#5	5-00		#5 x5'-0"L RE-END	115

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** ESTIMATING BAR LIST **

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
484										4	#7	43-02		4#7 COUPLER THREADED	353
485										4	#7	32-03		4#7 COUPLER THREADED	264
486										3	#6	28-00		3#6 COUPLER THREADED	126
487									2	3	#7	31-02		3#7 COUPLER THREADED	382
488										52	#3	8-00		#3 @12"O.C ADDL	156
489															
490				FORTH FLOOR SLAB											
491				REFER-SEC-5/S4.13											
492						30			2	2	#5	40-00		2#5 T&B PERI METER	5006
493										450	#4	4-06		#4 @24" S DWL	1353
494				REFER-SEC-4/S4.13											
495						20			2	2	#6	40-00		2#6 T&B	4806
496									1	475	#3	6-00		#3 @16" TRANS	1072
497				REFER-SEC-11/S4.11											
498										4	#7	8-08		4#7 CONT	71
499										27	#3	4-00		#3 @4"O.C STIRR	41
500				REFER-SEC-12/S4.13											
501									6	1	#4	40-00		1#4 CONT	160
502										95	#4	4-06		#4 @24" S DWL	286
503				REFER-S2.12 SLAB ADDL											
504									24	1	#5	5-00		#5 x5'-0"L RE-END	125
505										4	#7	44-10		4#7 COUPLER THREADED	367
506										4	#7	32-03		4#7 COUPLER THREADED	264

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**** ESTIMATING BAR LIST ****

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR		LENGTH	B	COMMENT	LINE LB
507										3	#6		27-00		3#6 COUPLER THREADED	122
508									2	3	#7		31-10		3#7 COUPLER THREADED	390
509																
510 FIFTH FLOOR SLAB																
511 REFER-SEC-5/S4.13																
512						30			2	2	#5		40-00		2#5 T&B PERI METER	5006
513										450	#4		4-06		#4 @24" S DWL	1353
514 REFER-SEC-4/S4.13																
515						20			2	2	#6		40-00		2#6 T&B	4806
516									1	475	#3		6-00		#3 @16" TRANS	1072
517 REFER-SEC-11/S4.11																
518										4	#7		8-08		4#7 CONT	71
519										27	#3		4-00		#3 @4"O.C STIRR	41
520 REFER-SEC-12/S4.13																
521									6	1	#4		40-00		1#4 CONT	160
522										95	#4		4-06		#4 @24" S DWL	286
523 REFER-S2.12 SLAB ADDL																
524									24	1	#5		5-00		#5 x5'-0"L RE-END	125
525										4	#7		44-10		4#7 COUPLER THREADED	367
526										4	#7		32-03		4#7 COUPLER THREADED	264
527										3	#6		27-00		3#6 COUPLER THREADED	122
528									2	3	#7		31-10		3#7 COUPLER THREADED	390
529																

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** ESTIMATING BAR LIST **

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
530	SIXTH FLOOR SLAB														
531	REFER-SEC-5/S4.13														
532						30			2	2	#5	40-00		2#5 T&B PERI METER	5006
533										450	#4	4-06		#4 @24" S DWL	1353
534	REFER-SEC-4/S4.13														
535						20			2	2	#6	40-00		2#6 T&B	4806
536									1	475	#3	6-00		#3 @16" TRANS	1072
537	REFER-SEC-11/S4.11														
538										4	#7	8-08		4#7 CONT	71
539										27	#3	4-00		#3 @4"O.C STIRR	41
540	REFER-SEC-12/S4.13														
541									6	1	#4	40-00		1#4 CONT	160
542										95	#4	4-06		#4 @24" S DWL	286
543	REFER-S2.12 SLAB ADDL														
544									24	1	#5	5-00		#5 x5'-0"L RE-END	125
545										4	#7	44-10		4#7 COUPLER THREADED	367
546										4	#7	32-03		4#7 COUPLER THREADED	264
547										3	#6	27-00		3#6 COUPLER THREADED	122
548									2	3	#7	31-10		3#7 COUPLER THREADED	390
549															
550	SEVENTH FLOOR SLAB														
551	REFER-SEC-5/S4.13														
552						30			2	2	#5	40-00		2#5 T&B PERI METER	5006

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** ESTIMATING BAR LIST **

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
553										450	#4	4-06		#4 @24" S DWL	1353
554 REFER-SEC-4/S4.13															
555						20			2	2	#6	40-00		2#6 T&B	4806
556									1	475	#3	6-00		#3 @16" TRANS	1072
557 REFER-SEC-11/S4.11															
558										4	#7	8-08		4#7 CONT	71
559										27	#3	4-00		#3 @4"O.C STIRR	41
560 REFER-SEC-12/S4.13															
561									6	1	#4	40-00		1#4 CONT	160
562										95	#4	4-06		#4 @24" S DWL	286
563 REFER-S2.12 SLAB ADDL															
564									24	1	#5	5-00		#5 x5'-0"L RE-END	125
565										4	#7	44-10		4#7 COUPLER THREADED 367	
566										4	#7	32-03		4#7 COUPLER THREADED 264	
567										3	#6	27-00		3#6 COUPLER THREADED 122	
568									2	3	#7	31-10		3#7 COUPLER THREADED 390	
569															
570 EIGHTH FLOOR SLAB															
571 REFER-SEC-5/S4.13															
572						30			2	2	#5	40-00		2#5 T&B PERI METER	5006
573										450	#4	4-06		#4 @24" S DWL	1353
574 REFER-SEC-4/S4.13															
575						20			2	2	#6	40-00		2#6 T&B	4806

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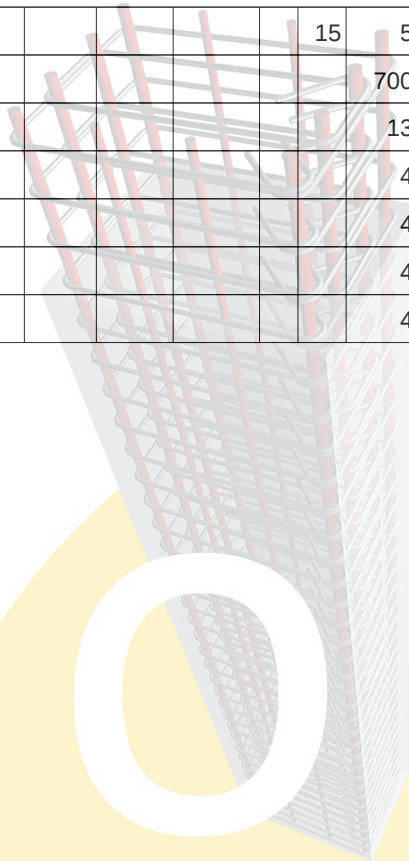
** ESTIMATING BAR LIST **

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
576									1	475	#3	6-00		#3 @16" TRANS	1072
577 REFER-SEC-11/S4.11															
578										4	#7	8-08		4#7 CONT	71
579										27	#3	4-00		#3 @4"O.C STIRR	41
580 REFER-SEC-12/S4.13															
581									6	1	#4	40-00		1#4 CONT	160
582										95	#4	4-06		#4 @24" S DWL	286
583 REFER-S2.12 SLAB ADDL															
584									24	1	#5	5-00		#5 x5'-0"L RE-END	125
585										4	#7	44-10		4#7 COUPLER THREADED 367	
586										4	#7	32-03		4#7 COUPLER THREADED 264	
587										3	#6	27-00		3#6 COUPLER THREADED 122	
588									2	3	#7	31-10		3#7 COUPLER THREADED 390	
589															
590 ROOF FLOOR SLAB															
591 REFER-SEC-12/S4.13															
592									6	1	#4	40-00		1#4 CONT	160
593									1	95	#4	4-06		#4 @24" S DWL	286
594 REFER-SEC-9/S4.15															
595									6	4	#4	40-00		#4 @12"O.C HOR	641
596										280	#4	5-04		#4 8"O.C DWL	998
597 REFER-SEC-4/S4.14															
598									6	2	#4	40-00		2#4 CONT	321

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE LB
599						6			2	4	#4	40-00		#4 @12" HOR EF	1283
600									2	190	#4	6-06		#4 @12"O.C DWL EF	1650
601 REFER-SEC-7/S4.14															
602									13	3	#4	40-00		#4 @12" O.C CONT	1042
603										565	#4	6-06		#4 @12"O.C DWL	2453
604 REFER-SEC-8,8/S4.14															
605									15	5	#4	40-00		#4 @12" O.C CONT	2004
606										700	#4	6-06		#4 @12"O.C DWL	3039
607										13	#5	5-00		#5 x5'-0"L RE-END	68
608										4	#8	44-00		4#8 COUPLER THREADED 470	
609										4	#7	32-05		4#7 COUPLER THREADED 265	
610										4	#7	27-00		4#7 COUPLER THREADED 221	
611										4	#7	31-06		4#7 COUPLER THREADED 258	

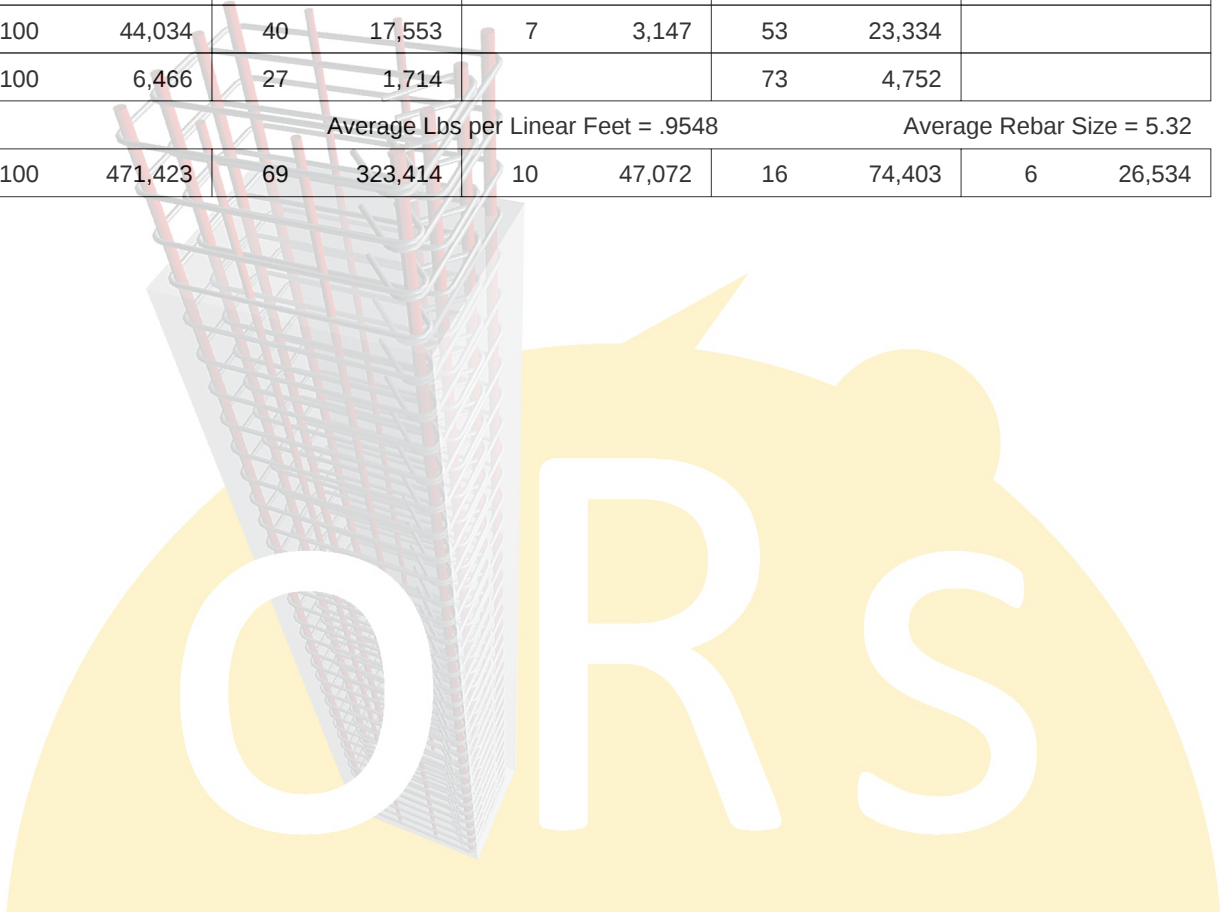


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**** TOTALS PAGE (LBS) ****

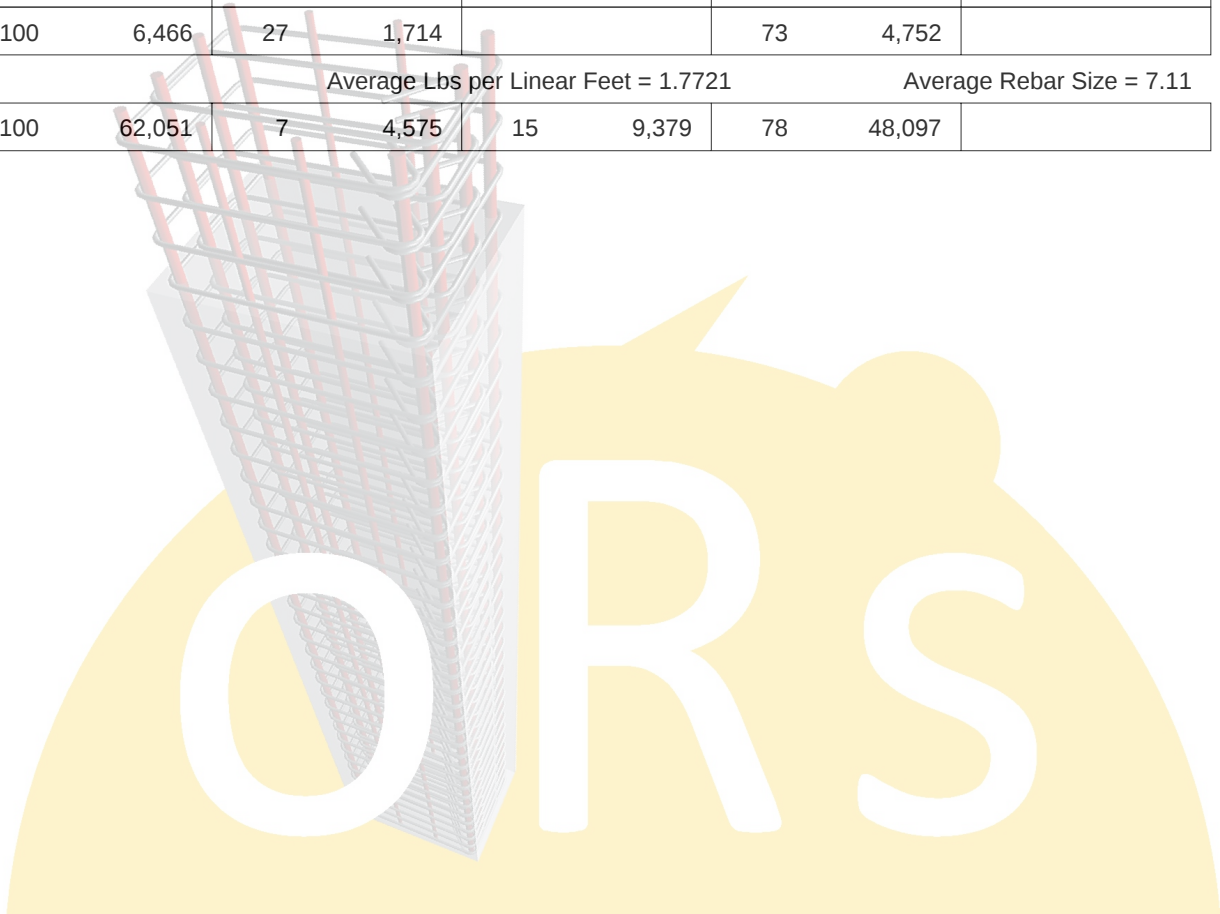
BLDG CONCRETE STRUCTURE TOTAL			STRAIGHT		LIGHT BENT		HEAVY BENT		STOCK/MILL	
SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
#3 Gr 60	100	17,685	33	5,886	67	11,799				
#4 Gr 60	100	173,935	68	118,304	18	30,681		210	14	24,740
#5 Gr 60	100	90,350	84	75,995		303	14	12,258	2	1,794
#6 Gr 60	100	75,366	81	60,863	2	1,142	18	13,361		
#7 Gr 60	100	63,587	68	43,099			32	20,488		
#8 Gr 60	100	44,034	40	17,553	7	3,147	53	23,334		
#9 Gr 60	100	6,466	27	1,714			73	4,752		
Average Lbs per Linear Feet = .9548 Average Rebar Size = 5.32										
Total 235.8 Tons	100	471,423	69	323,414	10	47,072	16	74,403	6	26,534



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**** TOTALS PAGE (LBS) ****

BLDG CONCRETE >PILE CAP										
---- SubStructure ----			----- STRAIGHT -----		----- LIGHT BENT -----		----- HEAVY BENT -----		----- STOCK/MILL -----	
SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
#4 Gr 60	100	6,232			100	6,232				
#5 Gr 60	100	4,042					100	4,042		
#6 Gr 60	100	2,389					100	2,389		
#7 Gr 60	100	19,551	8	1,515			92	18,036		
#8 Gr 60	100	23,371	6	1,346	13	3,147	81	18,878		
#9 Gr 60	100	6,466	27	1,714			73	4,752		
Average Lbs per Linear Feet = 1.7721										
Average Rebar Size = 7.11										
Total 31.1 Tons	100	62,051	7	4,575	15	9,379	78	48,097		

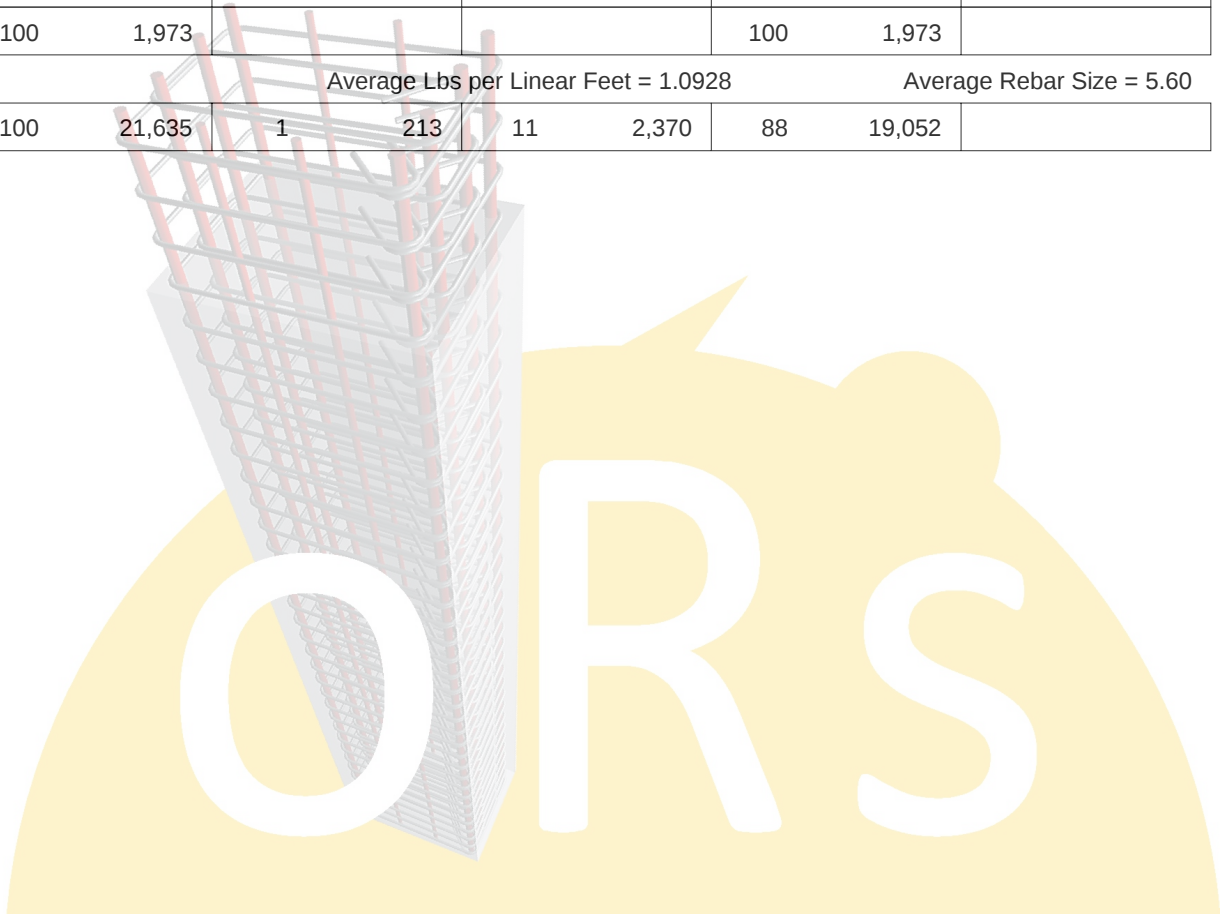


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**** TOTALS PAGE (LBS) ****

BLDG CONCRETE
 >CON PILASTER ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
#3 Gr 60	100	1,586			100	1,586				
#4 Gr 60	100	1,072	7	78	73	784	20	210		
#5 Gr 60	100	7,750	2	135			98	7,615		
#6 Gr 60	100	7,244					100	7,244		
#7 Gr 60	100	2,010					100	2,010		
#8 Gr 60	100	1,973					100	1,973		
Average Lbs per Linear Feet = 1.0928 Average Rebar Size = 5.60										
Total 10.9 Tons	100	21,635	1	213	11	2,370	88	19,052		



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**** TOTALS PAGE (LBS) ****

BLDG CONCRETE
>GB & TB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
#3 Gr 60	100	10,213			100	10,213				
#6 Gr 60	100	26,679	86	22,951			14	3,728		
#7 Gr 60	100	4,694	91	4,252			9	442		
#8 Gr 60	100	15,299	84	12,816			16	2,483		

Average Lbs per Linear Feet = 1.0743

Average Rebar Size = 6.08

Total 28.5 Tons	100	56,885	70	40,019	18	10,213	12	6,653		
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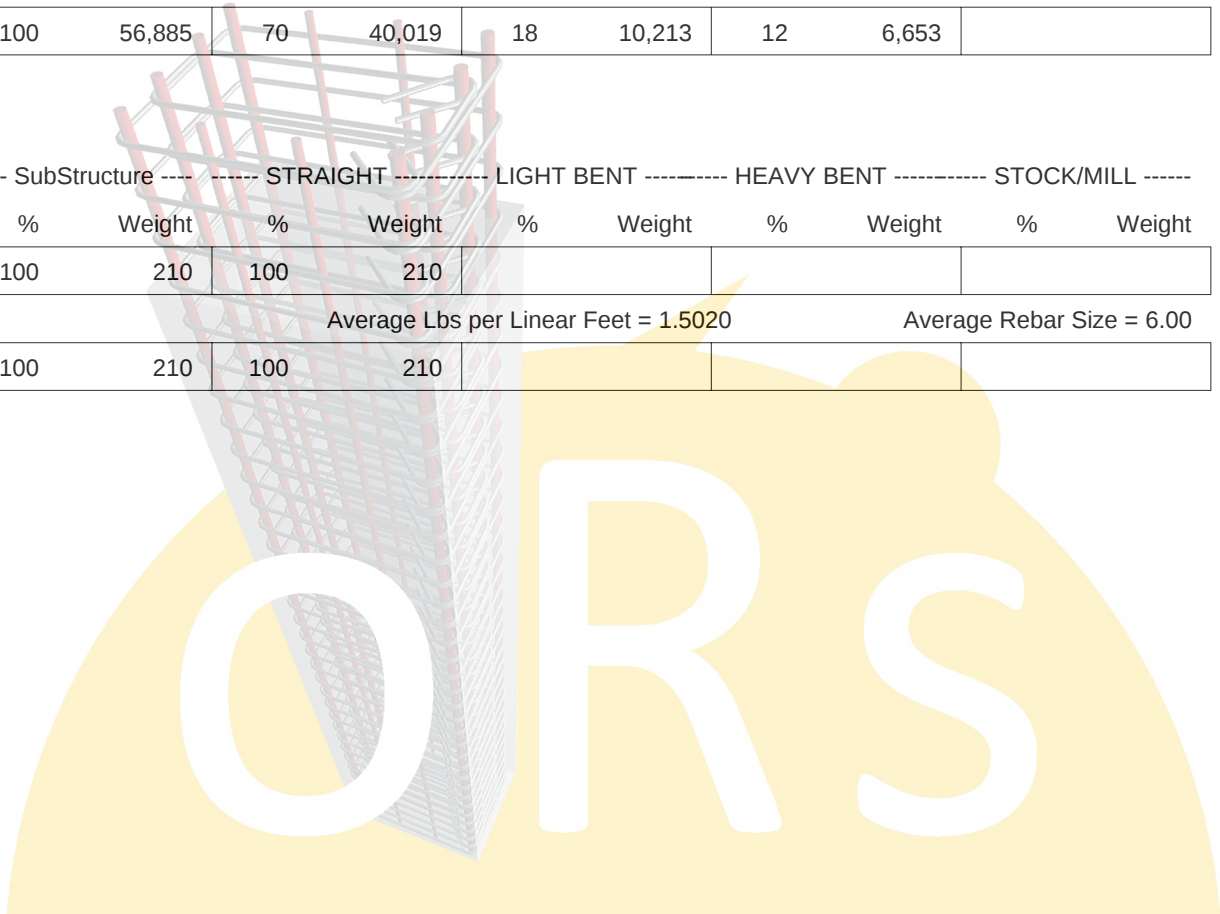
BLDG CONCRETE
>COL FOOTING ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
#6 Gr 60	100	210	100	210						

Average Lbs per Linear Feet = 1.5020

Average Rebar Size = 6.00

Total .2 Tons	100	210	100	210						
---------------	-----	-----	-----	-----	--	--	--	--	--	--



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**** TOTALS PAGE (LBS) ****

BLDG CONCRETE										
>WALL FOOTING ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----										
SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
#4 Gr 60	100	3,814			48	1,837			52	1,977
#5 Gr 60	100	2,201	100	2,201						
Average Lbs per Linear Feet = .7692 Average Rebar Size = 4.37										
Total 3.1 Tons	100	6,015	37	2,201	31	1,837			33	1,977

BLDG CONCRETE										
>CONC WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----										
SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
#4 Gr 60	100	14,309			56	8,030			44	6,279
Average Lbs per Linear Feet = .6680 Average Rebar Size = 4.00										
Total 7.2 Tons	100	14,309			56	8,030			44	6,279



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**** TOTALS PAGE (LBS) ****

BLDG CONCRETE
>CMU WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
#4 Gr 60	100	45	100	45						
#5 Gr 60	100	2,258	70	1,580	13	303			17	375
#6 Gr 60	100	6,289	82	5,147	18	1,142				

Average Lbs per Linear Feet = 1.3385

Average Rebar Size = 5.73

Total 4.3 Tons	100	8,592	79	6,772	17	1,445			4	375
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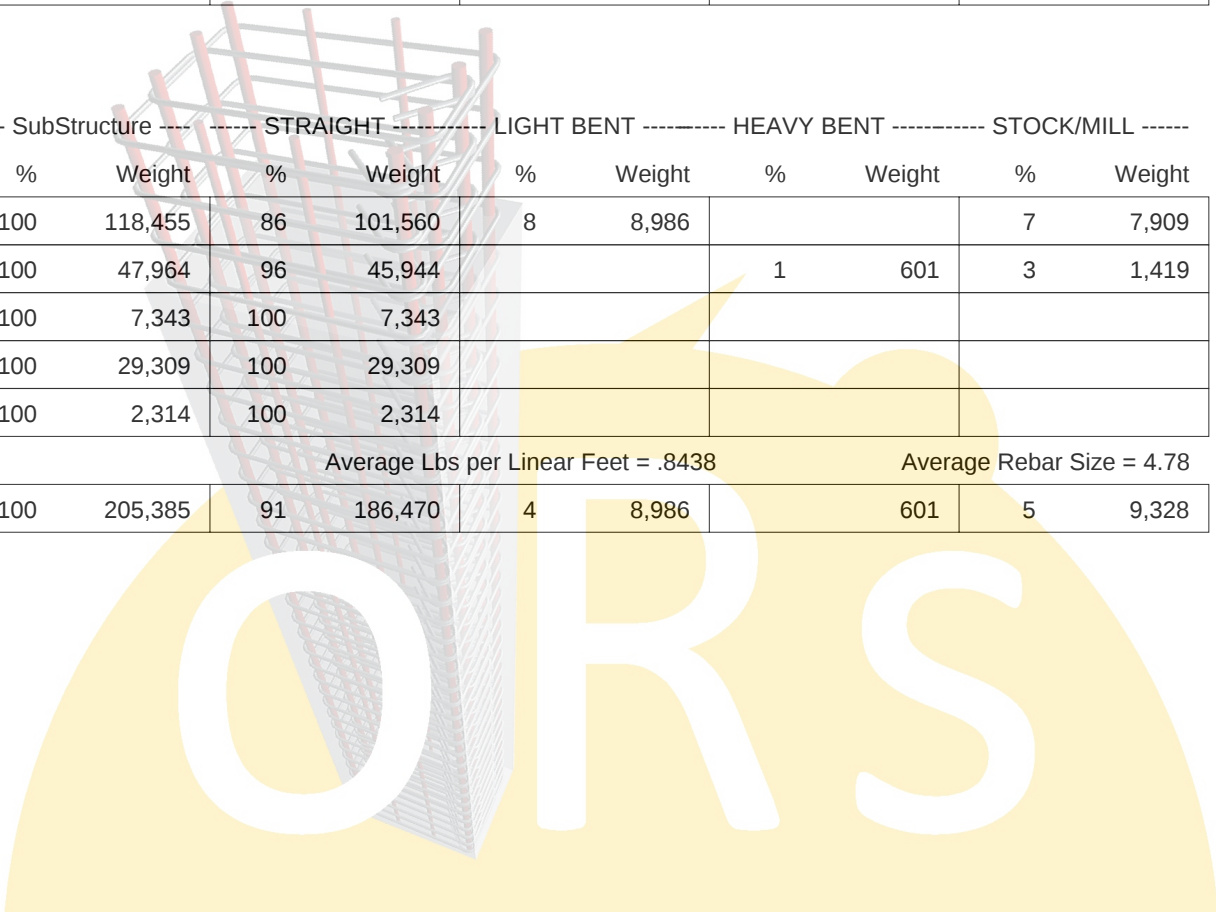
BLDG CONCRETE
>SHEAR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
#4 Gr 60	100	118,455	86	101,560	8	8,986			7	7,909
#5 Gr 60	100	47,964	96	45,944			1	601	3	1,419
#6 Gr 60	100	7,343	100	7,343						
#7 Gr 60	100	29,309	100	29,309						
#8 Gr 60	100	2,314	100	2,314						

Average Lbs per Linear Feet = .8438

Average Rebar Size = 4.78

Total 102.7 Tons	100	205,385	91	186,470	4	8,986		601	5	9,328
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Bid Date 03/18/16

** TOTALS PAGE (LBS) **

BLDG CONCRETE									
>UPPER SLAB									
---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----									
SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%
#3 Gr 60	100	5,886	100	5,886					
#4 Gr 60	100	30,008	55	16,621	16	4,812		29	8,575
#5 Gr 60	100	26,135	100	26,135					
#6 Gr 60	100	25,212	100	25,212					
#7 Gr 60	100	8,023	100	8,023					
#8 Gr 60	100	1,077	100	1,077					
Average Lbs per Linear Feet = .9025									
Average Rebar Size = 5.03									
Total 48.2 Tons	100	96,341	86	82,954	5	4,812		9	8,575



Bid Date 03/18/16

** TOTALS PAGE (LBS) **

GRAND TOTALS ----- TOTAL -----			STRAIGHT -----		LIGHT BENT -----		HEAVY BENT -----		STOCK/MILL -----	
SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
#3 Gr 60	100	17,685	33	5,886	67	11,799				
#4 Gr 60	100	173,935	68	118,304	18	30,681		210	14	24,740
#5 Gr 60	100	90,350	84	75,995		303	14	12,258	2	1,794
#6 Gr 60	100	75,366	81	60,863	2	1,142	18	13,361		
#7 Gr 60	100	63,587	68	43,099			32	20,488		
#8 Gr 60	100	44,034	40	17,553	7	3,147	53	23,334		
#9 Gr 60	100	6,466	27	1,714			73	4,752		
Average Lbs per Linear Feet = .9548 Average Rebar Size = 5.32										
Total 235.8 Tons	100	471,423	69	323,414	10	47,072	16	74,403	6	26,534

