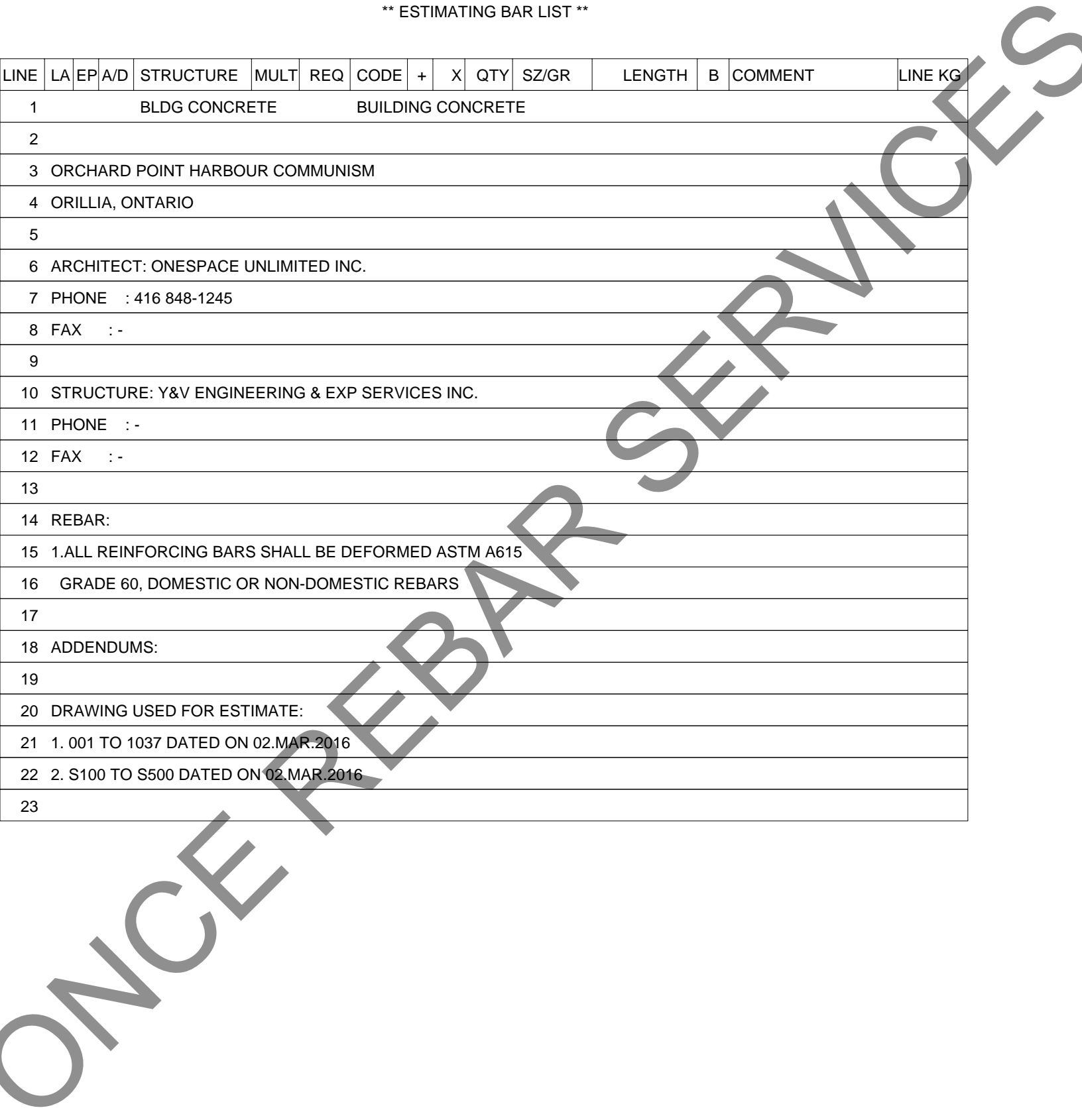


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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1				BLDG CONCRETE			BUILDING CONCRETE								
2															
3				ORCHARD POINT HARBOUR COMMUNISM											
4				ORILLIA, ONTARIO											
5															
6				ARCHITECT: ONESPACE UNLIMITED INC.											
7				PHONE : 416 848-1245											
8				FAX :-											
9															
10				STRUCTURE: Y&V ENGINEERING & EXP SERVICES INC.											
11				PHONE :-											
12				FAX :-											
13															
14				REBAR:											
15				1.ALL REINFORCING BARS SHALL BE DEFORMED ASTM A615											
16				GRADE 60, DOMESTIC OR NON-DOMESTIC REBARS											
17															
18				ADDENDUMS:											
19															
20				DRAWING USED FOR ESTIMATE:											
21				1. 001 TO 1037 DATED ON 02.MAR.2016											
22				2. S100 TO S500 DATED ON 02.MAR.2016											
23															



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
24				EXCLUSIONS:											
25				1.REBAR WELDED TO STRUCTURAL STEEL											
26															
27				INCLUSIONS:											
28				1.COLUMN FOOTING											
29				2.WALL FOOTING											
30				3.MAT SLAB											
31				4.CONCRETE PILASTER											
32				5.CONCRETE WALL											
33				6.CONCRETE COLUMN											
34				7.CONCRETE BEAM											
35				8.UPPER LEVELS											
36				9.CMU WALL											
37															
38				ASSUMPTIONS:											
39				1.WE ASSUMED REINF, FOR CA COLUMN.											
40															
41				NOTES:											
42				1.REBAR ACCESSORIES: AS PER STANDARD PRACTICE											
43															
44				FOUNDATION											
45				>COL FOOTING										COLUMN FOOTING	
46				MARK-F1											



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
47									19	8	20m Gr420	1500		BOT SW	536
48									19	6	20m Gr420	2200		BOT LW	590
49 MARK-F2															
50									42	8	25m Gr420	2800		BOT LW	3691
51									42	10	20m Gr420	2200		BOT SW	2175
52 MARK-F3															
53									38	11	25m Gr420	3200		BOT LW	5249
54									38	13	25m Gr420	2500		BOT SW	4846
55 MARK-F4															
56						7			2	7	25m Gr420	5700		LW T&B	2192
57						7			2	20	20m Gr420	2000		SW T&B	1318
58						7				8	15m Gr420	2250	H	STANDEE	197
59 MARK-F5															
60									2	6	25m Gr420	6650		LW T&B	312
61									2	23	20m Gr420	1600		SW T&B	173
62										8	15m Gr420	2250	H	STANDEE	28
63 MARK-F6															
64									2	8	25m Gr420	6650		LW T&B	417
65									2	23	20m Gr420	2000		SW T&B	216
66										10	15m Gr420	2250	H	STANDEE	35
67 MARK-F7															
68									11	9	20m Gr420	1200		BOT SW	279
69									11	5	20m Gr420	2500		BOT LW	323

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
70 MARK-F8															
71									9	11	20m Gr420	2000		BOT SW	466
72									9	7	20m Gr420	3000		BOT LW	444
73 MARK-F9															
74									6	6	20m Gr420	1750		BOT SW	148
75									6	6	20m Gr420	1750		BOT LW	148
76 MARK-F10															
77									6	9	20m Gr420	2000		BOT SW	254
78									6	7	25m Gr420	2500		BOT LW	411
79															
80				>CON PILASTER										CONCRETE PILASTER	
81 MARK-P1															
82									7	12	20m Gr420	1945	H	12-20 D/V	384
83									7	5	10m Gr420	3080	L	10 @300 @ TIES	84
84						7			2	5	10m Gr420	2055	L	10 @300 @ TIES	112
85									7	8	10m Gr420	2000	H	8-20 DWL	87
86															
87				>BSMT COL										BSMT LEVEL CONCRETE COLUMN	
88 MARK-C1															
89									116	10	25m Gr420	1550	H	10-25 DWL	7056
90									116	10	25m Gr420	3800		10-25 VERT	17298
91						116			2	12	10m Gr420	1600	L	10 @ 300 TIES	3493
92									116	12	10m Gr420	420	L	10 @ 300 LINKS	458

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
93						116			2	5	10m Gr420	1600	L	5-10 TIES TOP	1455
94									116	5	10m Gr420	420	L	5-10 LINKS TOP	190
95 MARK-C2															
96									11	8	20m Gr420	1550	H	8-20 DWL	321
97									11	8	20m Gr420	4800		8-20 VERT	994
98									11	12	10m Gr420	1400	L	10 @ 300 TIES	145
99									11	5	10m Gr420	1400	L	5-10 TIES TOP	60
100 MARK-C3															
101									2	10	25m Gr420	1550	H	10-25 DWL	121
102									2	10	25m Gr420	4800		10-25 VERT	376
103									2	12	10m Gr420	3000	L	10 @ 300 TIES	56
104									2	12	10m Gr420	1800	L	10 @ 300 TIES	34
105									2	5	10m Gr420	3000	L	5-10 TIES TOP	23
106									2	5	10m Gr420	1800	L	5-10 TIES TOP	14
107 MARK-C4															
108									5	8	25m Gr420	1550	H	8-25 DWL	243
109									5	8	25m Gr420	3800		8-25 VERT	596
110									5	15	10m Gr420	1570	L	10 @ 250 TIES	92
111									5	5	10m Gr420	1570	L	5-10 TIES TOP	30
112 MARK-C5															
113									2	14	20m Gr420	1550	H	14-20 DWL	102
114									2	14	20m Gr420	4800		14-20 VERT	316
115									2	15	10m Gr420	2580	L	10 @ 250 TIES	60

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG	
116									2	15	10m Gr420	1195	L	10 @ 250 TIES	28	
117									2	5	10m Gr420	2580	L	5-10 TIES TOP	20	
118									2	5	10m Gr420	1195	L	5-10 TIES TOP	9	
119 MARK-C6																
120									18	14	20m Gr420	1550	H	14-20 DWL	919	
121									18	14	20m Gr420	3800		14-20 VERT	2254	
122									18	15	10m Gr420	3500	L	10 @ 250 TIES	741	
123									18	15	10m Gr420	1620	L	10 @ 250 TIES	342	
124									18	5	10m Gr420	3500	L	5-10 TIES TOP	247	
125									18	5	10m Gr420	1620	L	5-10 TIES TOP	114	
126 MARK-C7																
127										10	20m Gr420	1550	H	10-20 DWL	36	
128										10	20m Gr420	3800		10-20 VERT	89	
129										15	10m Gr420	2500	L	10 @ 250 TIES	29	
130										15	10m Gr420	1500	L	10 @ 250 TIES	17	
131										5	10m Gr420	2500	L	5-10 TIES TOP	9	
132										5	10m Gr420	1500	L	5-10 TIES TOP	5	
133 MARK-C8																
134									4	14	20m Gr420	1550	H	14-20 DWL	204	
135									4	14	20m Gr420	4800		14-20 VERT	632	
136									4	15	10m Gr420	2900	L	10 @250 TIES	136	
137									4	2	15	10m Gr420	900	L	10 @250 TIES	84
138									4	15	10m Gr420	370	L	10 @250 LINKS	17	

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
139									4	5	10m Gr420	2900	L	5-10 TIES TOP	45
140						4			4	5	10m Gr420	900	L	5-10 TIES TOP	56
141									4	5	10m Gr420	370	L	5-10 TOP LINKS	5
142 MARK-C9															
143									4	14	20m Gr420	1550	H	14-20 DWL	204
144									4	14	20m Gr420	4800		14-20 VERT	632
145									4	15	10m Gr420	3000	L	10 @250 TIES	141
146						4			2	15	10m Gr420	920	L	10 @250 TIES	86
147									4	15	10m Gr420	370	L	10 @250 LINKS	17
148									4	5	10m Gr420	3000	L	5-10 TIES TOP	47
149						4			2	5	10m Gr420	920	L	5-10 TIES TOP	29
150									4	5	10m Gr420	370	L	5-10 TIES LINKS	5
151															
152 >MAT SLAB MAT SLAB															
153 500MM MAT SLAB															
154									2	13	20m Gr420	6700	H	20 @300 T&B LW	410
155									2	23	20m Gr420	3700	H	20 @300 T&B SW	400
156									1	18	15m Gr420	2203	H	15 STANDEE	62
157 700MM MAT SLAB															
158									2	8	25m Gr420	5210		25 @300 T&B	327
159									2	10	20m Gr420	2030		25 @300 T&B	95
160									2	8	25m Gr420	5900		25 @300 T&B	370
161									2	7	25m Gr420	6906		25 @300 T&B	379

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
162									2	15	20m Gr420	2020		25 @300 T&B	142
163									2	10	25m Gr420	1352		25 @350 T&B	106
164									2	10	25m Gr420	1352		25 @350 T&B	106
165									2	9	25m Gr420	1352		25 @350 T&B	95
166										7	25m Gr420	2967		25 @350 TOP	81
167						3			2	2	25m Gr420	12192		2-25 T&B ADDL	574
168										2	25m Gr420	8872		2-25 BOT ADDL	69
169						2			2	20	25m Gr420	12192		25 @350 T&B	3827
170									3	2	25m Gr420	8401		3x2-25 ADDL	197
171									3	2	25m Gr420	7091		3x2-25 ADDL	166
172									2	2	20m Gr420	8991		2x2-20 ADDL	84
173										4	25m Gr420	2420		4-25 BOT ADDL	38
174									2	7	20m Gr420	12192		20 @400 BOT	401
175									2	7	25m Gr420	12192		25 @350 TOP	669
176										7	25m Gr420	5008		25 @350 TOP	137
177										95	25m Gr420	3510		25 @350 BOT ADDL	1308
178										3	25m Gr420	3575		25 @700 TOP ADDL	42
179										11	25m Gr420	6300		25 @350 TOP	272
180										20	25m Gr420	6300		25 @200 BOT	494
181						2			2	2	25m Gr420	12192		2-25 T&B ADDL	382
182										14	25m Gr420	3521		25 @350 BOT ADDL	193
183									2	20	25m Gr420	1791		25 @350 T&B	281
184									2	19	25m Gr420	6751		25 @350 T&B	1006



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
185									2	13	25m Gr420	7754		25 @350 T&B	791
186									2	10	25m Gr420	1312		25 @350 T&B	102
187									2	25	25m Gr420	7238		25 @350 T&B	1420
188										22	25m Gr420	4160		25 @350 TOP	359
189										40	25m Gr420	4160		25 @200 BOT	653
190										19	25m Gr420	6475		25 @350 BOT ADDL	482
191										3	25m Gr420	3142		25 @700 TOP ADDL	37
192										3	25m Gr420	4190		25 @700 TOP ADDL	49
193										12	25m Gr420	4135		25 @200 BOT ADDL	194
194										6	20m Gr420	6013		6-20 @700 TOP ADDL	84
195										9	25m Gr420	8550		25 @350 TOP	302
196										7	25m Gr420	6012		25 @350 TOP	165
197										8	25m Gr420	6012		25 @300 BOT	188
198										7	25m Gr420	2896		25 @350 TOP	79
199										8	25m Gr420	2896		25 @300 BOT	90
200										19	25m Gr420	2965		25 @200 BOT ADDL	220
201										5	25m Gr420	3534		25 @700 TOP ADDL	69
202										11	25m Gr420	3530		25 @350 BOT ADDL	152
203									2	10	25m Gr420	3540		25 @350 BOT ADDL ES	278
204										20	25m Gr420	3535		25 @350 BOT ADDL	277
205						2			2	32	25m Gr420	12192		25 @350 T&B	6124
206									2	15	25m Gr420	9255		25 @350 T&B	1089
207									2	5	25m Gr420	9895		25 @350 T&B	388

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
208										5	25m Gr420	5247		6-25 @700 BOT ADDL	102
209						2			2	25	25m Gr420	12192		25 @350 T&B	4784
210									2	35	25m Gr420	5850		25 @350 T&B	1607
211									2	35	25m Gr420	6333		25 @350 T&B	1739
212										9	25m Gr420	3262		25 @350 BOT ADDL	115
213										28	25m Gr420	2535		25 @350 BOT ADDL	278
214										13	25m Gr420	2535		25 @350 BOT ADDL	129
215										8	20m Gr420	10830		8-20 TOP ADDL	204
216										8	25m Gr420	11935		25 @350 BOT	374
217									2	6	25m Gr420	5525		6-25 T&B ADDL	260
218										7	25m Gr420	12504		25 @350 BOT	343
219						2			2	19	25m Gr420	12192		25 @350 T&B	3636
220									2	5	25m Gr420	5785		25 @350 T&B	226
221										25	25m Gr420	5838		25 @200 BOT ADDL	572
222										9	25m Gr420	5283		25 @350 BOT ADDL	186
223										4	25m Gr420	3905		25 @700 TOP ADDL	61
224										7	25m Gr420	3075		25 @350 BOT ADDL	84
225						2			2	16	25m Gr420	12192		25 @350 T&B	3062
226									2	46	25m Gr420	5545		25 @350 T&B	2002
227										8	20m Gr420	5545		8-20 BOT ADDL	104
228										2	25m Gr420	4900		2-25 BOT ADDL	38
229										6	25m Gr420	5525		25 @700 TOP ADDL	130
230									2	10	25m Gr420	5550		25 @350 T&B	435

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
231									2	3	25m Gr420	10250		25 @350 T&B	241
232						4			2	9	25m Gr420	12192		25 @350 T&B	3445
233										36	25m Gr420	3205		25 @350 TOP	452
234										50	25m Gr420	3205		25 @250 BOT	628
235										18	25m Gr420	6025		25 @700 TOP ADDL	425
236										9	25m Gr420	3506		25 @250 BOT	123
237										11	25m Gr420	2026		25 @350 BOT	87
238										11	25m Gr420	8975		25 @350 BOT	387
239										40	25m Gr420	3505		25 @225 BOT	550
240										8	25m Gr420	3026		25 @350 BOT	94
241										13	25m Gr420	2705		25 @250 BOT	137
242										16	25m Gr420	2987		25 @350 BOT	187
243										9	25m Gr420	5533		25 @350 BOT	195
244										20	25m Gr420	3495		25 @250 BOT	274
245										14	25m Gr420	4995		25 @250 BOT	274
246									2	16	25m Gr420	2987		25 @350 BOT	375
247									2	9	25m Gr420	5533		25 @350 BOT	391
248										40	25m Gr420	3500		25 @225 BOT	549
249										10	25m Gr420	8900		25 @350 BOT	349
250										13	25m Gr420	4618		25 @350 TOP	235
251										19	25m Gr420	4618		25 @250 BOT	344
252										19	25m Gr420	2940		25 @350 TOP	219
253										27	25m Gr420	2940		25 @350 BOT	311

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
254										10	25m Gr420	1990		25 @350 BOT	78
255										8	25m Gr420	3495		25 @250 BOT	109
256						2			2	4	20m Gr420	12192		20 @300 T&B	459
257									2	33	20m Gr420	2015		20 @300 T&B	312
258									2	7	20m Gr420	10935		20 @300 T&B	360
259									2	38	20m Gr420	1215		20 @300 T&B	217
260										7	25m Gr420	3262		25 @300 BOT ADDL	89
261										700	15m Gr420	2604	H	15 STANDEE	2861
262															
263				>BSMT WALL										BSMT CONCRETE WALL	
264				MARK-W1											
265				REF:SEC-1/S301											
266									15	3	15m Gr420	12192		3-15 TOP CONT	861
267									15	3	20m Gr420	12192		3-20 BOT CONT	1291
268										460	10m Gr420	750		10 @300 BOT TRANS	270
269										460	10m Gr420	1040		10 @300 TOP TRANS	375
270									7	3	15m Gr420	920	H	3-15 TOP COR	30
271									7	3	20m Gr420	1000	H	3-20 BOT COR	49
272									2	430	15m Gr420	1550	H	15 @350 DWL EF	2092
273									2	395	15m Gr420	4406		15 @350 VERT EF	5464
274						15			2	17	15m Gr420	12192		15 @300 HOR EF	9762
275										395	15m Gr420	1600	H	15 @350 S DWL	992
276						7			2	17	15m Gr420	920	H	15 @300 HOR COR	343

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
277						8			2	2	15m Gr420	4406		2x2-15 END VERT EF	221
278 ELEVATOR WALL															
279									2	152	15m Gr420	1745	H	15 @350 DWL EF	832
280						4			2	6	15m Gr420	3300		2x6-15 @150 COR VERT	248
281									4	12	10m Gr420	2165	L	10 @300 TIES	81
282									4	12	10m Gr420	835	L	10 @300 TIES	31
283									2	52	15m Gr420	3300		15 @350 VERT EF	538
284						2			2	12	15m Gr420	12192		15 @300 HOR EF	918
285						4			2	12	15m Gr420	920	H	15 @300 HOR COR	138
286															
287 REF:S220															
288									2	124	15m Gr420	1945	H	15 @350 DWL EF	757
289									2	56	20m Gr420	1945	H	20 @350 DWL EF	513
290									2	24	25m Gr420	1945	H	25 @350 DWL EF	366
291						3			2	6	15m Gr420	4300	H	2x6-15 @150 COR VERT	243
292									6	12	10m Gr420	2205	L	10 @300 TIES	124
293									8	12	10m Gr420	1000	L	10 @300 TIES	75
294									6	12	10m Gr420	2870	L	10 @300 TIES	161
295						6			2	12	10m Gr420	1000	L	10 @300 TIES	112
296						1			2	6	20m Gr420	4300		2x6-20 @150 COR VERT	121
297						2			2	6	25m Gr420	4300		2x6-25 @150 COR VERT	405
298						3			2	8	20m Gr420	4300		2x8-20 @150 COR VERT	485
299						2			2	8	25m Gr420	4300		2x8-25 @150 COR VERT	539

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
300									2	4	15m Gr420	4300		2x4-15 @150 COR VERT	53
301						2			2	2	20m Gr420	4300		2x2-20 @150 COR VERT	81
302									2	40	15m Gr420	4300		15 @350 VERT EF	540
303						3			2	12	15m Gr420	12192		15 @300 HOR EF	1378
304						8			2	12	15m Gr420	920	H	15 @300 HOR COR	277
305										2	25m Gr420	5745		2-25 TOP ADDL	44
306									2	18	15m Gr420	1100		15 @200 VERT EF	62
307									2	6	15m Gr420	5545		15 @200 HOR EF	104
308									2	170	15m Gr420	1390	H	15 @200 DWL EF	742
309															
310															REF:S221
311									2	46	15m Gr420	1945	H	15 @350 DWL EF	280
312									2	100	20m Gr420	1945	H	20 @350 DWL EF	915
313									2	46	15m Gr420	4300		15 @350 VERT EF	620
314									3	28	20m Gr420	4300		28-20 @150 COR VERT	850
315						3			2	12	10m Gr420	2880	L	10 @300 TIES	162
316					3	2			2	12	10m Gr420	1000	L	10 @300 TIES	112
317						2			2	8	20m Gr420	4300		2x8-20 @150 COR VERT	323
318									2	12	10m Gr420	2880	L	10 @300 TIES	54
319						2			2	12	10m Gr420	1000	L	10 @300 TIES	37
320						2			2	12	15m Gr420	12192		15 @300 HOR EF	918
321						4			2	12	15m Gr420	920	H	15 @300 HOR COR	138
322									2	80	15m Gr420	1390	H	15 @200 DWL EF	349

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
323															
324 REF:SEC-3/S401															
325									3	3	15m Gr420	12192		3-5 CONT	172
326									2	122	15m Gr420	915	H	15 @300 DWL EF	350
327									2	122	15m Gr420	2700		15 @300 VERT EF	1034
328									2	7	15m Gr420	12192		15 @400 HOR EF	268
329															
330 REF:SEC-5/S301															
331									6	3	20m Gr420	12192		3-20 CONT	516
332									2	145	15m Gr420	1080	H	15 @350 DWL EF	491
333									2	145	15m Gr420	1540		15 @350 VERT EF	701
334						6			2	4	15m Gr420	12192		15 @450 HOR EF	918
335						5			2	4	15m Gr420	920	H	15 @450 HOR COR	57
336									1	165	10m Gr420	1785	L	10 @300 S DWL	230
337									6	1	15m Gr420	12192		1-15 CONT	114
338															
339 REF:SEC-2/S301															
340									18	3	15m Gr420	12192		3-15 CONT	1033
341									2	500	15m Gr420	1120	H	15 @350 DWL EF	1758
342									2	500	15m Gr420	1355		15 @350 VERT EF	2127
343									18	4	15m Gr420	12192		15 @400 HOR EF	1378
344									18	4	15m Gr420	920	H	15 @400 HOR COR	103
345										500	10m Gr420	800	L	10 @350 U BAR	313

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
346															
347 REF:SEC-9/S301															
348									3	3	15m Gr420	12192		3-15 CONT	172
349									2	78	15m Gr420	1050	H	15 @350 DWL EF	257
350									2	78	15m Gr420	1365		15 @350 VERT EF	334
351						3			2	4	15m Gr420	12192		15 @400 HOR EF	459
352										78	10m Gr420	800	L	10 @350 U BAR	48
353															
354 MARK-W2															
355									2	35	15m Gr420	1945	H	15 @350 DWL EF	213
356									2	17	15m Gr420	4300		15 @350 VERT EF	229
357						3			2	3	15m Gr420	4300		2x3-15 END VERT	121
358									2	12	15m Gr420	6675		15 @300 HOR EF	251
359									6	14	10m Gr420	1140	L	10 @250 TIES	75
360									2	30	15m Gr420	1390	H	15 @200 DWL EF	131
361															
362 MARK-W3															
363									2	628	15m Gr420	1945	H	15 @350 DWL EF	3835
364									2	250	15m Gr420	4300		15 @350 VERT EF	3375
365						47			2	4	15m Gr420	4300		2x4-15 END VERT	2538
366						10			2	12	15m Gr420	12192		15 @300 HOR EF	4594
367									2	12	15m Gr420	920	H	15 @300 HOR COR	34
368									47	14	10m Gr420	1400	L	10 @250 TIES	722



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
369									2	432	15m Gr420	1390	L	15 @200 DWL EF	1885
370															
371 MARK-W4															
372									2	165	15m Gr420	1945	H	15 @350 DWL EF	1007
373									2	67	15m Gr420	4300		15 @350 VERT EF	904
374						8			2	6	15m Gr420	4300		2x6-15 END VERT	648
375						3			2	12	15m Gr420	12192	H	15 @300 HOR EF	1378
376									8	14	10m Gr420	1700	L	10 @250 TIES	149
377									2	118	15m Gr420	1390	H	15 @200 DWL EF	514
378															
379 MARK-W5															
380									2	96	15m Gr420	1945	H	15 @350 DWL EF	586
381									2	32	15m Gr420	4300		15 @350 VERT EF	432
382						4			2	8	15m Gr420	4300		2x8-15 END VERT	432
383									2	12	15m Gr420	12192		15 @300 HOR EF	459
384									4	14	10m Gr420	2000	L	10 @250 TIES	87
385									2	26	15m Gr420	1390	H	15 @200 DWL EF	113
386															
387 MARK-W7															
388									2	30	15m Gr420	1945	H	15 @350 DWL EF	183
389									2	30	15m Gr420	4300		15 @350 VERT EF	405
390						2			2	8	25m Gr420	1945	H	2x8-25 END DWL	244
391						2			2	8	25m Gr420	4300		2x8-25 END VERT	539

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
392									2	12	15m Gr420	9750		15 @300 HOR EF	367
393									2	14	10m Gr420	2000	L	10 @250 TIES	43
394									2	48	15m Gr420	1390	H	15 @200 DWL EF	209
395															
396 MARK-W8															
397									2	26	15m Gr420	1945	H	15 @350 DWL EF	158
398									2	10	15m Gr420	4300		15 @350 VERT EF	135
399						4			2	2	15m Gr420	4300		2x2-15 END VERT	107
400									2	12	15m Gr420	3200		15 @300 HOR EF	120
401									4	14	10m Gr420	1240	L	10 @250 TIES	54
402									2	16	15m Gr420	1390	H	15 @200 DWL EF	69
403															
404 MARK-W9															
405									2	61	15m Gr420	1945	H	15 @350 DWL EF	372
406									2	61	15m Gr420	4300		15 @350 VERT EF	823
407						4			2	8	15m Gr420	4300		2x3-15 END VERT	432
408						2			2	12	15m Gr420	12192		15 @300 HOR EF	918
409									4	14	10m Gr420	1500	L	10 @250 TIES	65
410									2	106	15m Gr420	1390	H	15 @200 DWL EF	462
411															
412 MARK-W10															
413									2	7	15m Gr420	1945	H	15 @350 DWL EF	42
414									2	7	15m Gr420	4300		15 @350 VERT EF	94

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
415						2			2	4	15m Gr420	1945	H	2x4-25 END DWL	48
416						2			2	4	15m Gr420	4300		2x4-25 END VERT	107
417									2	10	15m Gr420	2210		15 @350 HOR EF	69
418									2	14	10m Gr420	1900	L	10 @250 TIES	41
419									2	12	15m Gr420	1390	H	15 @200 DWL EF	52
420															
421 MARK-W11															
422									2	13	15m Gr420	1945	H	15 @350 DWL EF	79
423									2	13	15m Gr420	4300		15 @350 VERT EF	175
424						4			2	4	15m Gr420	1945	H	2x4-25 END DWL	97
425						4			2	4	15m Gr420	4300		2x4-25 END VERT	215
426									2	10	15m Gr420	2210		15 @350 HOR EF	69
427									2	14	10m Gr420	2000	L	10 @250 TIES	43
428									2	23	15m Gr420	1390	H	15 @200 DWL EF	100
429															
430 GROUND FLOOR															
431 >GF COLUMN GROUND FLOOR CONCRETE COLUMN															
432 MARK-CA															
433									7	8	20m Gr420	1550	H	8-20 DWL	204
434									7	8	20m Gr420	4450		8-20 VERT	586
435									7	12	10m Gr420	1400	L	10 @ 300 TIES	92
436									7	5	10m Gr420	1400	L	5-10 TIES TOP	38
437															

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
438 MARK-C2															
439									11	8	20m Gr420	4450		8-20 VERT	922
440									11	12	10m Gr420	1400	L	10 @ 300 TIES	145
441									11	5	10m Gr420	1400	L	5-10 TIES TOP	60
442															
443 MARK-C5															
444									2	14	20m Gr420	4450		14-20 VERT	293
445									2	15	10m Gr420	2580	L	10 @ 250 TIES	60
446									2	15	10m Gr420	1195	L	10 @ 250 TIES	28
447									2	5	10m Gr420	2580	L	5-10 TIES TOP	20
448									2	5	10m Gr420	1195	L	5-10 TIES TOP	9
449															
450 MARK-C8															
451									3	14	20m Gr420	4450		14-20 VERT	439
452									3	15	10m Gr420	2900	L	10 @250 TIES	102
453						3			2	15	10m Gr420	900	L	10 @250 TIES	63
454									3	15	10m Gr420	370	L	10 @250 LINKS	13
455									3	5	10m Gr420	2900	L	5-10 TIES TOP	34
456						3			2	5	10m Gr420	900	L	5-10 TIES TOP	21
457									3	5	10m Gr420	370	L	5-10 TOP LINKS	4
458															
459 MARK-C9															
460									4	14	20m Gr420	4450		14-20 VERT	586

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
461									4	15	10m Gr420	3000	L	10 @250 TIES	141
462						4			2	15	10m Gr420	920	L	10 @250 TIES	86
463									4	15	10m Gr420	370	L	10 @250 LINKS	17
464									4	5	10m Gr420	3000	L	5-10 TIES TOP	47
465						4			2	5	10m Gr420	920	L	5-10 TIES TOP	29
466									4	5	10m Gr420	370	L	5-10 TIES LINKS	5
467															
468				>GF SLAB										GROUND FLOOR SLAB	
469				350MM THICK SLAB											
470									2	1850	20m Gr420	12000		20 @450 T&B EW	104531
471										3055	15m Gr420	1903	H	15 STANDEE	9127
472										4	20m Gr420	8463		6-20 TOP	79
473										14	20m Gr420	2057		20 @450 TOP	67
474										20	20m Gr420	2057		20 @450 TOP	97
475										3	25m Gr420	2750		3-25 TOP	32
476										3	25m Gr420	1835		3-25 TOP	21
477										64	20m Gr420	2057		20 @450 TOP	309
478										3	25m Gr420	5405		3-25 TOP	63
479										3	25m Gr420	3705		3-25 TOP	43
480										3	25m Gr420	7402		3-25 TOP	87
481										3	25m Gr420	5268		3-25 TOP	62
482										2	25m Gr420	7205		2-25 TOP	56
483										2	25m Gr420	4905		2-25 TOP	38

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
484										6	25m Gr420	7815		6-25 TOP	184
485										6	25m Gr420	5550		6-25 TOP	130
486										4	25m Gr420	5696		4-25 TOP	89
487										3	25m Gr420	3895		3-25 TOP	45
488										4	25m Gr420	7815		4-25 TOP	122
489										4	25m Gr420	5550		4-25 TOP	87
490										3	25m Gr420	5696		3-25 TOP	67
491										3	25m Gr420	3895		3-25 TOP	45
492										4	25m Gr420	7815		4-25 TOP	122
493										4	25m Gr420	5550		4-25 TOP	87
494										2	20m Gr420	5696		2-20 TOP	26
495										2	20m Gr420	3895		2-20 TOP	18
496										6	25m Gr420	8417		6-25 TOP	198
497										2	20m Gr420	5696		2-20 TOP	26
498										2	20m Gr420	3895		2-20 TOP	18
499										3	20m Gr420	5696		3-20 TOP	40
500										3	20m Gr420	3895		3-20 TOP	27
501										6	25m Gr420	8417		6-25 TOP	198
502										3	20m Gr420	5696		3-20 TOP	40
503										3	20m Gr420	3895		3-20 TOP	27
504										3	20m Gr420	5696		3-20 TOP	40
505										3	20m Gr420	3895		3-20 TOP	27
506										6	25m Gr420	8417		6-25 TOP	198

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
507										3	20m Gr420	5696		3-20 TOP	40
508										3	20m Gr420	3895		3-20 TOP	27
509										3	20m Gr420	5696		3-20 TOP	40
510										3	20m Gr420	3895		3-20 TOP	27
511										6	25m Gr420	8417		6-25 TOP	198
512										3	20m Gr420	5696		3-20 TOP	40
513										3	20m Gr420	3895		3-20 TOP	27
514										3	20m Gr420	5696		3-20 TOP	40
515										3	20m Gr420	3895		3-20 TOP	27
516										6	25m Gr420	8417		6-25 TOP	198
517										3	20m Gr420	5696		3-20 TOP	40
518										3	20m Gr420	3895		3-20 TOP	27
519										6	25m Gr420	8417		6-25 TOP	198
520										6	20m Gr420	3350		6-20 TOP	47
521										6	20m Gr420	3350		6-20 TOP	47
522										4	25m Gr420	5850		4-25 TOP	91
523										4	25m Gr420	4085		4-25 TOP	63
524										4	25m Gr420	6000		4-25 TOP	94
525										3	25m Gr420	4330		3-25 TOP	50
526										4	25m Gr420	5850		4-25 TOP	91
527										4	25m Gr420	4085		4-25 TOP	63
528										4	25m Gr420	6000		4-25 TOP	94
529										3	25m Gr420	4330		3-25 TOP	50

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
530										3	20m Gr420	7205		3-20 TOP	50
531										3	20m Gr420	6205		3-20 TOP	43
532										4	20m Gr420	4608		4-20 TOP	43
533										4	20m Gr420	3408		4-20 TOP	32
534										4	20m Gr420	7205		4-20 TOP	68
535										4	20m Gr420	6205		4-20 TOP	58
536										3	20m Gr420	4608		3-20 TOP	32
537										3	20m Gr420	3408		3-20 TOP	24
538										4	20m Gr420	7205		4-20 TOP	68
539										4	20m Gr420	6205		4-20 TOP	58
540										3	20m Gr420	4608		3-20 TOP	32
541										3	20m Gr420	3408		3-20 TOP	24
542										3	20m Gr420	7205		3-20 TOP	50
543										3	20m Gr420	6205		3-20 TOP	43
544										3	20m Gr420	4608		3-20 TOP	32
545										3	20m Gr420	3408		3-20 TOP	24
546										3	20m Gr420	7205		3-20 TOP	50
547										3	20m Gr420	6205		3-20 TOP	43
548										3	20m Gr420	4608		3-20 TOP	32
549										3	20m Gr420	3408		3-20 TOP	24
550										3	20m Gr420	7205		3-20 TOP	50
551										3	20m Gr420	6205		3-20 TOP	43
552										3	20m Gr420	4608		4-20 TOP	32



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
553										3	20m Gr420	3408		4-20 TOP	24
554										4	20m Gr420	7205		4-20 TOP	68
555										4	20m Gr420	6205		4-20 TOP	58
556										3	20m Gr420	4608		3-20 TOP	32
557										3	20m Gr420	3408		3-20 TOP	24
558										3	20m Gr420	7205		2-20 TOP	50
559										3	20m Gr420	6205		3-20 TOP	43
560										3	20m Gr420	4608		3-20 TOP	32
561										3	20m Gr420	3408		3-20 TOP	24
562										6	20m Gr420	2785	H	6-20 TOP	39
563										3	20m Gr420	4608		3-20 TOP	32
564										3	20m Gr420	3408		3-20 TOP	24
565										3	25m Gr420	6000		3-25 TOP	70
566										3	25m Gr420	4330		3-25 TOP	50
567										3	25m Gr420	5850		3-25 TOP	68
568										3	25m Gr420	4085		3-25 TOP	48
569										3	25m Gr420	6000		3-25 TOP	70
570										3	25m Gr420	4330		3-25 TOP	50
571										3	20m Gr420	7205		3-20 TOP	50
572										3	20m Gr420	6206		3-20 TOP	43
573										4	20m Gr420	4608		4-20 TOP	43
574										4	20m Gr420	3408		4-20 TOP	32
575										4	20m Gr420	5696		4-20 TOP	53

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
576										4	20m Gr420	3895		4-20 TOP	36
577										3	20m Gr420	4608		3-20 TOP	32
578										3	20m Gr420	3895		3-20 TOP	27
579										4	20m Gr420	5696		4-20 TOP	53
580										4	20m Gr420	3895		4-20 TOP	36
581										3	20m Gr420	4608		3-20 TOP	32
582										3	20m Gr420	3895		3-20 TOP	27
583										2	20m Gr420	5696		2-20 TOP	26
584										2	20m Gr420	3895		2-20 TOP	18
585										2	20m Gr420	4608		2-20 TOP	21
586										2	20m Gr420	3895		2-20 TOP	18
587										2	20m Gr420	5696		2-20 TOP	26
588										2	20m Gr420	3895		2-20 TOP	18
589										2	20m Gr420	4608		2-20 TOP	21
590										2	20m Gr420	3895		2-20 TOP	18
591										3	20m Gr420	5696		3-20 TOP	40
592										3	20m Gr420	3895		3-20 TOP	27
593										2	20m Gr420	4608		2-20 TOP	21
594										2	20m Gr420	3895		2-20 TOP	18
595										4	20m Gr420	5696		4-20 TOP	53
596										3	20m Gr420	3895		3-20 TOP	27
597										2	20m Gr420	4608		2-20 TOP	21
598										2	20m Gr420	3895		2-20 TOP	18

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
599										6	20m Gr420	2785	H	6-20 TOP	39
600										2	20m Gr420	4608		2-20 TOP	21
601										2	20m Gr420	3895		2-20 TOP	18
602										4	25m Gr420	6000		4-25 TOP	94
603										4	25m Gr420	4330		4-25 TOP	68
604										3	25m Gr420	5850		3-25 TOP	68
605										3	25m Gr420	4085		3-25 TOP	48
606										4	25m Gr420	6000		4-25 TOP	94
607										4	25m Gr420	4330		4-25 TOP	68
608										3	25m Gr420	5850		3-25 TOP	68
609										3	25m Gr420	4085		3-25 TOP	48
610										4	20m Gr420	4450		4-20 TOP	41
611										4	20m Gr420	3080		4-20 TOP	29
612										3	25m Gr420	6195		3-25 TOP	73
613										3	25m Gr420	4465		3-25 TOP	52
614										2	20m Gr420	6007		2-20 TOP	28
615										2	20m Gr420	4450		2-20 TOP	20
616										3	25m Gr420	4450		3-25 TOP	52
617										3	25m Gr420	3080		3-25 TOP	36
618										2	20m Gr420	6007		2-20 TOP	28
619										2	20m Gr420	4450		2-20 TOP	20
620										3	20m Gr420	4450		3-20 TOP	31
621										3	20m Gr420	3080		3-20 TOP	21

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
622										2	20m Gr420	4608		2-20 TOP	21
623										2	20m Gr420	3408		2-20 TOP	15
624										3	20m Gr420	5696		3-20 TOP	40
625										3	20m Gr420	3895		3-20 TOP	27
626										1	20m Gr420	4608		1-20 TOP	10
627										1	20m Gr420	3408		1-20 TOP	8
628										2	20m Gr420	5696		2-20 TOP	26
629										2	20m Gr420	3895		2-20 TOP	18
630										1	20m Gr420	4608		1-20 TOP	10
631										1	20m Gr420	3408		1-20 TOP	8
632										2	20m Gr420	5696		2-20 TOP	26
633										2	20m Gr420	3895		2-20 TOP	18
634										1	20m Gr420	4608		1-20 TOP	10
635										1	20m Gr420	3408		1-20 TOP	8
636										3	20m Gr420	5696		3-20 TOP	40
637										3	20m Gr420	3895		3-20 TOP	27
638										1	20m Gr420	4608		1-20 TOP	10
639										1	20m Gr420	3408		1-20 TOP	8
640										3	20m Gr420	5696		3-20 TOP	40
641										3	20m Gr420	3895		3-20 TOP	27
642										2	20m Gr420	4603		2-20 TOP	21
643										2	20m Gr420	3398		2-20 TOP	15
644										4	20m Gr420	3200	H	4-20 TOP	29

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
645										3	20m Gr420	7806		3-20 TOP	55
646										3	20m Gr420	5542		3-20 TOP	39
647										4	20m Gr420	3200	H	4-20 TOP	29
648										3	20m Gr420	7806		3-20 TOP	55
649										3	20m Gr420	5542		3-20 TOP	39
650										4	20m Gr420	3200	H	4-20 TOP	29
651										4	20m Gr420	1620		4-20 TOP	15
652										40	20m Gr420	2055		20 @450 TOP	193
653										3	25m Gr420	6000		3-20 TOP	70
654										3	25m Gr420	4330		3-20 TOP	50
655										3	25m Gr420	5850		3-20 TOP	68
656										3	25m Gr420	4085		3-20 TOP	48
657										3	25m Gr420	6000		3-20 TOP	70
658										3	25m Gr420	4330		3-20 TOP	50
659										3	25m Gr420	5850		3-20 TOP	68
660										3	25m Gr420	4085		3-20 TOP	48
661										2	20m Gr420	7205		2-20 TOP	34
662										2	20m Gr420	6206		2-20 TOP	29
663										4	20m Gr420	4608		4-20 TOP	43
664										4	20m Gr420	3408		4-20 TOP	32
665										1	20m Gr420	5696		1-20 TOP	13
666										1	20m Gr420	3895		1-20 TOP	9
667										4	25m Gr420	4608		4-25 TOP	72

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
668										4	25m Gr420	3408		4-25 TOP	53
669										1	20m Gr420	5696		1-20 TOP	13
670										1	20m Gr420	3895		1-20 TOP	9
671										4	25m Gr420	4608		4-25 TOP	72
672										4	25m Gr420	3408		4-25 TOP	53
673										1	20m Gr420	5696		1-20 TOP	13
674										1	20m Gr420	3895		1-20 TOP	9
675										3	25m Gr420	4608		3-25 TOP	54
676										3	25m Gr420	3408		3-25 TOP	39
677										1	20m Gr420	5696		1-20 TOP	13
678										1	20m Gr420	3895		1-20 TOP	9
679										3	25m Gr420	4608		3-25 TOP	54
680										3	25m Gr420	3408		3-25 TOP	39
681										1	20m Gr420	5696		1-20 TOP	13
682										1	20m Gr420	3895		1-20 TOP	9
683										3	25m Gr420	4608		3-25 TOP	54
684										3	25m Gr420	3408		3-25 TOP	39
685										1	20m Gr420	5696		1-20 TOP	13
686										1	20m Gr420	3895		1-20 TOP	9
687										3	25m Gr420	4608		3-25 TOP	54
688										3	25m Gr420	3408		3-25 TOP	39
689										2	20m Gr420	5696		2-20 TOP	26
690										2	20m Gr420	3895		2-20 TOP	18

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
691										4	25m Gr420	4608		4-25 TOP	72
692										4	25m Gr420	3408		4-25 TOP	53
693										2	20m Gr420	4603		2-20 TOP	21
694										2	20m Gr420	3398		2-20 TOP	15
695										2	20m Gr420	5696		2-20 TOP	26
696										2	20m Gr420	3894		2-20 TOP	18
697										3	20m Gr420	7806		3-20 TOP	55
698										3	20m Gr420	5542		3-20 TOP	39
699										2	20m Gr420	5696		2-20 TOP	26
700										2	20m Gr420	3894		2-20 TOP	18
701										4	25m Gr420	7806		4-25 TOP	122
702										4	25m Gr420	5542		4-25 TOP	87
703										5	25m Gr420	5696		5-25 TOP	111
704										5	25m Gr420	3894		5-25 TOP	76
705										4	20m Gr420	1620	H	4-20 TOP	15
706										3	25m Gr420	6000		3-25 TOP	70
707										3	25m Gr420	4330		3-25 TOP	50
708										3	20m Gr420	5850		3-20 TOP	41
709										3	20m Gr420	4328		3-20 TOP	30
710										3	25m Gr420	6000		3-25 TOP	70
711										3	25m Gr420	4330		3-25 TOP	50
712										5	25m Gr420	5850		5-25 TOP	114
713										5	25m Gr420	4328		5-25 TOP	84

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
714										3	25m Gr420	7206		3-25 TOP	84
715										3	25m Gr420	6206		3-25 TOP	73
716										6	25m Gr420	4608		6-25 TOP	108
717										6	25m Gr420	3408		6-25 TOP	80
718										3	25m Gr420	5696		3-25 TOP	67
719										3	25m Gr420	3895		3-25 TOP	45
720										4	25m Gr420	4608		4-25 TOP	72
721										4	25m Gr420	3408		4-25 TOP	53
722										3	20m Gr420	5696		3-20 TOP	40
723										3	20m Gr420	3895		3-20 TOP	27
724										4	25m Gr420	4608		4-25 TOP	72
725										4	25m Gr420	3408		4-25 TOP	53
726										4	20m Gr420	5696		4-20 TOP	53
727										4	20m Gr420	3895		4-20 TOP	36
728										3	25m Gr420	4608		3-25 TOP	54
729										3	25m Gr420	3408		3-25 TOP	39
730										3	20m Gr420	5696		3-20 TOP	40
731										3	20m Gr420	3895		3-20 TOP	27
732										3	25m Gr420	4608		3-25 TOP	54
733										3	25m Gr420	3408		3-25 TOP	39
734										3	20m Gr420	5696		3-20 TOP	40
735										3	20m Gr420	3895		3-20 TOP	27
736										3	25m Gr420	4608		3-25 TOP	54



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
737										3	25m Gr420	3408		3-25 TOP	39
738										3	20m Gr420	5696		3-20 TOP	40
739										3	20m Gr420	3895		3-20 TOP	27
740										3	25m Gr420	4608		3-25 TOP	54
741										3	25m Gr420	3408		3-25 TOP	39
742										4	20m Gr420	5696		4-20 TOP	53
743										4	20m Gr420	3895		4-20 TOP	36
744										4	25m Gr420	4608		4-25 TOP	72
745										4	25m Gr420	3408		4-25 TOP	53
746										2	20m Gr420	4603		2-20 TOP	21
747										2	20m Gr420	3398		2-20 TOP	15
748										3	25m Gr420	5696		3-25 TOP	67
749										3	25m Gr420	3894		3-25 TOP	45
750										4	25m Gr420	7806		4-25 TOP	122
751										4	25m Gr420	5542		4-25 TOP	87
752										5	25m Gr420	5696		5-25 TOP	111
753										5	25m Gr420	3984		5-25 TOP	78
754										5	25m Gr420	7806		5-25 TOP	153
755										5	25m Gr420	5542		5-25 TOP	108
756										5	25m Gr420	5696		5-25 TOP	111
757										5	25m Gr420	3894		5-25 TOP	76
758										4	20m Gr420	1620	H	4-20 TOP	15
759										3	20m Gr420	5096		3-20 TOP	35

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
760										3	20m Gr420	3730		3-20 TOP	26
761										3	20m Gr420	5705		3-20 TOP	40
762										3	20m Gr420	4203		3-20 TOP	29
763										4	25m Gr420	5705		4-25 TOP	89
764										4	25m Gr420	4203		4-25 TOP	65
765										3	25m Gr420	6000		3-25 TOP	70
766										3	25m Gr420	4330		3-25 TOP	50
767										3	25m Gr420	7205		3-25 TOP	84
768										3	25m Gr420	6208		3-25 TOP	73
769										7	25m Gr420	4608		7-25 TOP	126
770										7	25m Gr420	3408		7-25 TOP	93
771										3	25m Gr420	5696		3-25 TOP	67
772										3	25m Gr420	3894		3-25 TOP	45
773										5	25m Gr420	4608		5-25 TOP	90
774										5	25m Gr420	3408		5-25 TOP	66
775										3	25m Gr420	5696		3-25 TOP	67
776										3	25m Gr420	3894		3-25 TOP	45
777										5	25m Gr420	4608		5-25 TOP	90
778										5	25m Gr420	3408		5-25 TOP	66
779										3	25m Gr420	5696		3-25 TOP	67
780										3	25m Gr420	3894		3-25 TOP	45
781										4	25m Gr420	4608		4-25 TOP	72
782										4	25m Gr420	3408		4-25 TOP	53

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
783										3	25m Gr420	5696		3-25 TOP	67
784										3	25m Gr420	3894		3-25 TOP	45
785										4	25m Gr420	4608		4-25 TOP	72
786										4	25m Gr420	3408		4-25 TOP	53
787										3	25m Gr420	5696		3-25 TOP	67
788										3	25m Gr420	3894		3-25 TOP	45
789										4	25m Gr420	4608		4-25 TOP	72
790										4	25m Gr420	3408		4-25 TOP	53
791										3	25m Gr420	5696		3-25 TOP	67
792										3	25m Gr420	3894		3-25 TOP	45
793										4	25m Gr420	4608		4-25 TOP	72
794										4	25m Gr420	3408		4-25 TOP	53
795										3	25m Gr420	5696		3-25 TOP	67
796										3	25m Gr420	3894		3-25 TOP	45
797										4	25m Gr420	4608		4-25 TOP	72
798										4	25m Gr420	3408		4-25 TOP	53
799										3	20m Gr420	5696		3-20 TOP	40
800										3	20m Gr420	3894		3-20 TOP	27
801										4	20m Gr420	4608		4-20 TOP	43
802										4	20m Gr420	3408		4-20 TOP	32
803										5	25m Gr420	5696		5-25 TOP	111
804										5	25m Gr420	3894		5-25 TOP	76
805										3	20m Gr420	4608		3-20 TOP	32

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
806										3	20m Gr420	3408		3-20 TOP	24
807										6	25m Gr420	7806		6-25 TOP	183
808										6	25m Gr420	5542		6-25 TOP	130
809										4	25m Gr420	5696		4-25 TOP	89
810										4	25m Gr420	3894		4-25 TOP	61
811										4	20m Gr420	1620	H	4-20 TOP	15
812										3	20m Gr420	5696		3-20 TOP	40
813										3	20m Gr420	3895		3-20 TOP	27
814										1	20m Gr420	4608		1-20 TOP	10
815										1	20m Gr420	3408		1-20 TOP	8
816										2	20m Gr420	5696		2-20 TOP	26
817										2	20m Gr420	3895		2-20 TOP	18
818										1	20m Gr420	4608		1-20 TOP	10
819										1	20m Gr420	3408		1-20 TOP	8
820										2	20m Gr420	5696		2-20 TOP	26
821										2	20m Gr420	3895		2-20 TOP	18
822										1	20m Gr420	4608		1-20 TOP	10
823										1	20m Gr420	3408		1-20 TOP	8
824										3	20m Gr420	5696		3-20 TOP	40
825										3	20m Gr420	3895		3-20 TOP	27
826										3	20m Gr420	4608		3-20 TOP	32
827										3	20m Gr420	3408		3-20 TOP	24
828										2	20m Gr420	7806		2-20 TOP	36

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
829										2	20m Gr420	5542		2-20 TOP	26
830										4	20m Gr420	1620	H	4-20 TOP	15
831										300	20m Gr420	2082	H	20 @450 TOP	1470
832										3	20m Gr420	7812		3-20 TOP	55
833										3	20m Gr420	5530		3-20 TOP	39
834										2	20m Gr420	5400		2-20 TOP	25
835										2	20m Gr420	3713		2-20 TOP	17
836										3	25m Gr420	7812		3-25 TOP	92
837										3	25m Gr420	5530		3-25 TOP	65
838										3	20m Gr420	5400		3-20 TOP	38
839										3	20m Gr420	3713		3-20 TOP	26
840										3	20m Gr420	7812		3-20 TOP	55
841										3	20m Gr420	5530		3-20 TOP	39
842										2	20m Gr420	5400		2-20 TOP	25
843										2	20m Gr420	3713		2-20 TOP	17
844										3	25m Gr420	7812		3-25 TOP	92
845										3	25m Gr420	5530		3-25 TOP	65
846										3	20m Gr420	5400		3-20 TOP	38
847										3	20m Gr420	3713		3-20 TOP	26
848										3	20m Gr420	7812		3-20 TOP	55
849										3	20m Gr420	5530		3-20 TOP	39
850										2	20m Gr420	5400		2-20 TOP	25
851										2	20m Gr420	3713		2-20 TOP	17

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
852										3	25m Gr420	7812		3-25 TOP	92
853										3	25m Gr420	5530		3-25 TOP	65
854										3	20m Gr420	5400		3-20 TOP	38
855										3	20m Gr420	3713		3-20 TOP	26
856										3	20m Gr420	7812		3-20 TOP	55
857										3	20m Gr420	5530		3-20 TOP	39
858										2	20m Gr420	5400		2-20 TOP	25
859										2	20m Gr420	3713		2-20 TOP	17
860										3	25m Gr420	7812		3-25 TOP	92
861										3	25m Gr420	5530		3-25 TOP	65
862										3	20m Gr420	5400		3-20 TOP	38
863										3	20m Gr420	3713		3-20 TOP	26
864										3	20m Gr420	7812		3-20 TOP	55
865										3	20m Gr420	5530		3-20 TOP	39
866										2	20m Gr420	5400		2-20 TOP	25
867										2	20m Gr420	3713		2-20 TOP	17
868										3	20m Gr420	5400		3-20 TOP	38
869										3	20m Gr420	3713		3-20 TOP	26
870										3	20m Gr420	5400		3-20 TOP	38
871										3	20m Gr420	3713		3-20 TOP	26
872										1	20m Gr420	5400		1-20 TOP	12
873										1	20m Gr420	3713		1-20 TOP	8
874										2	20m Gr420	3620		2-20 TOP	17

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
875										2	20m Gr420	4133		2-20 TOP	19
876										2	20m Gr420	3491		2-20 TOP	16
877										4	20m Gr420	5910		4-20 TOP	55
878										3	20m Gr420	4440		3-20 TOP	31
879										3	20m Gr420	4338		3-20 TOP	30
880										3	20m Gr420	2975		3-20 TOP	20
881										4	20m Gr420	5910		4-20 TOP	55
882										3	20m Gr420	4440		3-20 TOP	31
883										3	20m Gr420	4338		3-20 TOP	30
884										3	20m Gr420	2975		3-20 TOP	20
885										7	20m Gr420	2095	H	20 @450 TOP	34
886										3	20m Gr420	5910		3-20 TOP	41
887										3	20m Gr420	4440		3-20 TOP	31
888										2	20m Gr420	5910		2-20 TOP	27
889										4	20m Gr420	5910		4-20 TOP	55
890										4	20m Gr420	4440		4-20 TOP	41
891										3	20m Gr420	4338		3-20 TOP	30
892										3	20m Gr420	2975		3-20 TOP	20
893										3	20m Gr420	5910		3-20 TOP	41
894										3	20m Gr420	4440		3-20 TOP	31
895										3	20m Gr420	4338		3-20 TOP	30
896										3	20m Gr420	2975		3-20 TOP	20
897										8	20m Gr420	3450		8-20 TOP	64

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
898									3	1	25m Gr420	9910	H	1-25 BOT	116
899										45	25m Gr420	12000		1-25 BOT	2119
900										2	25m Gr420	8810		2-25 BOT	68
901									60	2	20m Gr420	12000		2-20 BOT	3390
902									14	3	20m Gr420	12000		3-20 BOT	1186
903									25	4	20m Gr420	12000		4-20 BOT	2825
904									8	6	20m Gr420	12000		6-20 BOT	1356
905									2	310	15m Gr420	800		15 @300 ADDL ES	778
906						10			2	2	15m Gr420	12000		2-15 CONT ES	753
907															
908				210MM THICK SLAB											
909									2	665	15m Gr420	12000		15 @450 T&B EW	25057
910										1095	15m Gr420	1623	H	15 STANDEE	2790
911										28	15m Gr420	1980		15 @450 TOP ADDL	87
912										27	10m Gr420	6000		10 @450 BOT ADDL	127
913										27	15m Gr420	7050		15 @450 TOP ADDL	298
914										23	25m Gr420	4145		25 @250 BOT ADDL	374
915										17	25m Gr420	5355		25 @125 BOT ADDL	357
916										5	15m Gr420	2780		15 @450 TOP ADDL	21
917										17	20m Gr420	7290		20 @125 TOP ADDL	291
918										8	25m Gr420	5380		25 @150 BOT ADDL	168
919										8	25m Gr420	7290		25 @150 TOP ADDL	229
920										10	25m Gr420	5380		25 @125 BOT ADDL	210



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
921										10	25m Gr420	7290		25 @125 TOP ADDL	286
922										16	15m Gr420	650	H	15 @300 HAIR PIN	16
923									2	15	15m Gr420	2230	H	15 @300 STIRR	105
924										2	15m Gr420	2500		2-15 TOP ADDL	7
925										80	25m Gr420	2500		25 @300 TOP ADDL	784
926										13	10m Gr420	5100		10 @450 BOT ADDL	52
927										8	10m Gr420	7550		10 @450 BOT ADDL	47
928										5	15m Gr420	8500		15 @450 TOP ADDL	66
929										30	15m Gr420	4000		15 @450 TOP ADDL	188
930										25	10m Gr420	10340		10 @450 BOT ADDL	202
931										125	15m Gr420	5000		15 @300 BOT ADDL	981
932										50	15m Gr420	3545		15 @300 BOT ADDL	278
933										32	25m Gr420	6170		25 @450 TOP ADDL	774
934										13	10m Gr420	5000		10 @450 BOT ADDL	50
935										20	10m Gr420	7500		10 @450 BOT ADDL	117
936										6	25m Gr420	8560		25 @300 TOP ADDL	201
937										27	25m Gr420	2550		25 @300 TOP ADDL	270
938										12	25m Gr420	6125		25 @300 TOP ADDL	288
939										7	20m Gr420	3900		20 @450 TOP ADDL	64
940										42	15m Gr420	3555		15 @300 BOT ADDL	234
941										6	25m Gr420	10000		25 @300 TOP ADDL	235
942										3	25m Gr420	6750		25 @300 TOP ADDL	79
943										22	25m Gr420	4255		25 @300 BOT ADDL	367

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
944										12	25m Gr420	10061		25 @300 BOT ADDL	474
945										5	20m Gr420	2570	H	20 @450 TOP ADDL	30
946										7	10m Gr420	7565		10 @450 BOT ADDL	41
947										23	25m Gr420	2725	H	25 @300 TOP ADDL	245
948										6	15m Gr420	3755	H	15 @600 TOP ADDL	35
949										4	20m Gr420	4050		20 @450 TOP ADDL	38
950										2	10m Gr420	5050		10 @450 BOT ADDL	7
951										17	20m Gr420	3500		20 @450 TOP ADDL	140
952										5	15m Gr420	3500		15 @450 TOP ADDL	27
953										15	10m Gr420	5500		10 @450 BOT ADDL	64
954										4	15m Gr420	1750		15 @450 TOP ADDL	10
955										4	15m Gr420	6325		15 @450 BOT ADDL	39
956										2	20m Gr420	6000		20 @450 TOP ADDL	28
957									2	2	20m Gr420	6000		2-15 T&B	56
958										4	20m Gr420	3780		4 @450 TOP ADDL	35
959										4	20m Gr420	3000		4 @450 TOP ADDL	28
960										10	20m Gr420	4000		20 @450 TOP ADDL	94
961										8	15m Gr420	3500		15 @450 TOP ADDL	43
962										2	20m Gr420	9000		2-20 TOP ADDL	42
963										9	20m Gr420	3500		20 @450 TOP ADDL	73
964										10	20m Gr420	3960		20 @450 TOP ADDL	93
965										4	20m Gr420	3000		20 @450 TOP ADDL	28
966										2	15m Gr420	6106		2-15 T&B ADDL	19

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
967										2	15m Gr420	2146		2-15 T&B ADDL	6
968										2	20m Gr420	6300		20 @450 TOP ADDL	29
969										3	15m Gr420	6070		15 @450 BOT ADDL	28
970										7	15m Gr420	6420		15 @450 BOT ADDL	70
971										4	20m Gr420	2022		20 @450 TOP ADDL	19
972										17	20m Gr420	4050		20 @450 TOP ADDL	161
973										5	15m Gr420	3500		15 @450 TOP ADDL	27
974										8	20m Gr420	3220		20 @450 TOP ADDL	60
975										4	10m Gr420	6090		10 @450 BOT ADDL	19
976										4	15m Gr420	5100		15 @450 BOT ADDL	32
977										12	20m Gr420	4056		20 @450 TOP ADDL	114
978										2	15m Gr420	2500		2-15 TOP ADDL	7
979										16	20m Gr420	4100		20 @450 TOP ADDL	154
980										25	10m Gr420	5063		10 @450 BOT ADDL	99
981										12	20m Gr420	6800		20 @450 TOP ADDL	192
982										5	20m Gr420	5860		20 @450 TOP ADDL	68
983										10	20m Gr420	7000		20 @450 TOP ADDL	164
984										22	10m Gr420	8000		10 @450 BOT ADDL	137
985										6	15m Gr420	2240		15 @500 TOP ADDL	21
986										8	15m Gr420	2240		15 #450 TOP ADDL	28
987										2	15m Gr420	3000		2-15 TOP ADDL	9
988										34	15m Gr420	7050		15 @450 TOP ADDL	376
989										6	15m Gr420	6755		15 @450 BOT ADDL	63

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
990									2	2	15m Gr420	3478		2-15 T&B ADDL	21
991									2	2	15m Gr420	6398		2-15 T&B ADDL	40
992									2	2	15m Gr420	1865		2-15 T&B ADDL	11
993										5	15m Gr420	1922		15 @450 TOP ADDL	14
994										11	10m Gr420	5210		10 @450 BOT ADDL	44
995										38	10m Gr420	5060		10 @450 BOT ADDL	150
996										30	25m Gr420	8000		25 @300 TOP ADDL	941
997										8	15m Gr420	1935		15 @450 TOP ADDL	24
998										4	15m Gr420	3000		15 @450 TOP ADDL	19
999										5	10m Gr420	6800		10 @450 BOT ADDL	26
1000									2	2	15m Gr420	3600		2-15 T&B ADDL	22
1001						2			2	2	15m Gr420	12000		2-15 T&B ADDL	150
1002									2	2	15m Gr420	3255		2-15 T&B ADDL	20
1003										4	15m Gr420	3000		15 @450 TOP ADDL	19
1004										4	15m Gr420	3000		15 @450 TOP ADDL	19
1005										30	15m Gr420	7000		15 @450 TOP ADDL	329
1006										2	15m Gr420	3300		2-15 T&B ADDL	10
1007										8	10m Gr420	5060		10 @450 BOT ADDL	31
1008										12	15m Gr420	7575		15 @450 BOT ADDL	142
1009										7	15m Gr420	5000		15 @450 BOT ADDL	54
1010										30	15m Gr420	7000		15 @450 TOP ADDL	329
1011										6	20m Gr420	6860		6-20 TOP ADDL	97
1012									2	2	15m Gr420	3020		2-15 T&B ADDL	19

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1013										4	15m Gr420	2960		15 @450 TOP ADDL	18
1014									2	2	15m Gr420	3270		2-15 T&B ADDL	20
1015										5	10m Gr420	6700		10 @450 BOT ADDL	26
1016										27	10m Gr420	5160		10 @450 BOT ADDL	109
1017										30	15m Gr420	1970		15 @450 TOP ADDL	92
1018										2	15m Gr420	2500		2-15 TOP ADDL	7
1019										2	15m Gr420	5000		2-15 TOP ADDL	15
1020										2	15m Gr420	2500		2-15 TOP ADDL	7
1021										4	15m Gr420	4247		15 @450 TOP ADDL	26
1022										5	15m Gr420	7045		15 @450 TOP ADDL	55
1023										4	20m Gr420	5215		20 @450 TOP ADDL	48
1024										6	20m Gr420	1960		20 @450 TOP ADDL	27
1025										5	15m Gr420	1920		15 @450 TOP ADDL	14
1026										3	15m Gr420	1915		15 @450 TOP ADDL	9
1027										3	15m Gr420	1500		15 @450 BOT ADDL	7
1028										3	15m Gr420	2500		15 @450 BOT ADDL	11
1029										22	10m Gr420	7564		10 @450 BOT ADDL	130
1030						16			2	1	15m Gr420	12000		1-15 PERI T&B CONT	602
1031									17	3	10m Gr420	1295		3-10 STIRR ADDL	51
1032															
1033				>GF BEAM										GROUND FLOOR BEAM	
1034				MARK-GO1											
1035									2	14	20m Gr420	12000	H	14-20 TOP	791

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1036									2	14	15m Gr420	12000	H	14-15 BOT	527
1037										13	15m Gr420	3230	H	15 @150 STIRR	65
1038									3	13	15m Gr420	665	H	15 @150 LINKS	40
1039										33	15m Gr420	3230	H	15 @300 STIRR	167
1040 MARK-GO2															
1041									2	12	20m Gr420	12000	H	12-20 TOP	678
1042									2	12	15m Gr420	12000	H	12-15 BOT	452
1043										20	15m Gr420	3230	H	15 @150 STIRR	101
1044										13	15m Gr420	3230	H	15 @300 STIRR	65
1045 REF:1,2,5/S401															
1046									6	4	20m Gr420	12000	H	4-20 TOP	678
1047						6			2	4	15m Gr420	12000		15 @200 MID EF	904
1048									6	4	25m Gr420	12000	H	4-25 BOT	1130
1049										225	10m Gr420	3280	L	10 @300 STIRR	578
1050															
1051 >GF CONC WALL GROUND FLOOR CONCRETE WALL															
1052 MARK-W1 REF:S220															
1053						3			2	6	15m Gr420	4450		2x6-15 @150 COR VERT	251
1054									6	13	10m Gr420	2205	L	10 @300 TIES	134
1055									8	13	10m Gr420	1000	L	10 @300 TIES	81
1056									6	13	10m Gr420	2870	L	10 @300 TIES	175
1057						6			2	13	10m Gr420	1000	L	10 @300 TIES	122
1058						1			2	6	20m Gr420	4450		2x6-20 @150 COR VERT	125

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1059						2			2	6	25m Gr420	4450		2x6-25 @150 COR VERT	419
1060						3			2	8	20m Gr420	4450		2x8-20 @150 COR VERT	503
1061						2			2	8	25m Gr420	4450		2x8-25 @150 COR VERT	558
1062									2	4	15m Gr420	4450		2x4-15 @150 COR VERT	55
1063						2			2	2	20m Gr420	4450		2x2-20 @150 COR VERT	83
1064									2	40	15m Gr420	4450		15 @350 VERT EF	558
1065						3			2	12	15m Gr420	12192		15 @300 HOR EF	1378
1066						8			2	12	15m Gr420	920	H	15 @300 HOR COR	277
1067										2	25m Gr420	5745		2-25 TOP ADDL	44
1068										2	25m Gr420	5745		2-25 BOT ADDL	44
1069									2	18	15m Gr420	1100		15 @200 VERT EF	62
1070									2	6	15m Gr420	5545		15 @200 HOR EF	104
1071									2	170	15m Gr420	1390	H	15 @200 DWL EF	742
1072															
1073														MARK-W2 REF:S221	
1074									2	46	15m Gr420	4450		15 @350 VERT EF	642
1075									3	28	20m Gr420	4450		28-20 @150 COR VERT	879
1076						3			2	13	10m Gr420	2880	L	10 @300 TIES	175
1077					3	2			2	13	10m Gr420	1000	L	10 @300 TIES	122
1078						2			2	8	20m Gr420	4450		2x8-20 @150 COR VERT	335
1079									2	13	10m Gr420	2880	L	10 @300 TIES	58
1080						2			2	13	10m Gr420	1000	L	10 @300 TIES	40
1081						2			2	13	15m Gr420	12192		15 @300 HOR EF	995

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1082						4			2	13	15m Gr420	920	H	15 @300 HOR COR	150
1083									2	80	15m Gr420	1390	H	15 @200 DWL EF	349
1084															
1085 MARK-W2															
1086									2	17	15m Gr420	4450		15 @350 VERT EF	237
1087						3			2	3	15m Gr420	4450		2x3-15 END VERT	125
1088									2	13	15m Gr420	6675		15 @300 HOR EF	272
1089									6	15	10m Gr420	1140	L	10 @250 TIES	80
1090									2	30	15m Gr420	1390	H	15 @200 DWL EF	131
1091															
1092 MARK-W3															
1093									2	250	15m Gr420	4450		15 @350 VERT EF	3493
1094						47			2	4	15m Gr420	4450		2x4-15 END VERT	2626
1095						10			2	13	15m Gr420	12192		15 @300 HOR EF	4976
1096									2	13	15m Gr420	920	H	15 @300 HOR COR	37
1097									47	15	10m Gr420	1400	L	10 @250 TIES	774
1098									2	432	15m Gr420	1390	M	15 @200 DWL EF	1885
1099															
1100 MARK-W4															
1101									2	67	15m Gr420	4450		15 @350 VERT EF	936
1102						8			2	6	15m Gr420	4450		2x6-15 END VERT	670
1103						3			2	13	15m Gr420	12192		15 @300 HOR EF	1493
1104									8	15	10m Gr420	1700	L	10 @250 TIES	160



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1105									2	118	15m Gr420	1390	H	15 @200 DWL EF	514
1106															
1107 MARK-W5															
1108									2	32	15m Gr420	4450		15 @350 VERT EF	447
1109						4			2	8	15m Gr420	4450		2x8-15 END VERT	447
1110									2	13	15m Gr420	12192		15 @300 HOR EF	497
1111									4	15	10m Gr420	2000	L	10 @250 TIES	93
1112									2	26	15m Gr420	1390	H	15 @200 DWL EF	113
1113															
1114 MARK-W7															
1115									2	30	15m Gr420	4450		15 @350 VERT EF	419
1116						2			2	8	25m Gr420	4450		2x8-25 END VERT	558
1117									2	13	15m Gr420	9750		15 @300 HOR EF	397
1118									2	15	10m Gr420	2000	L	10 @250 TIES	47
1119									2	48	15m Gr420	1390	H	15 @200 DWL EF	209
1120															
1121 REF:SEC-3/S401															
1122									2	3	25m Gr420	12000		3-25 TOP	282
1123									2	3	25m Gr420	12000		3-25 BOT	282
1124						2			2	8	15m Gr420	12000		8-15 @200 MID EF	602
1125										72	15m Gr420	4315	H	15 @300 STIRR	487
1126															
1127				>2ND FLR SLAB										SECOND FLOOR SLAB	

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1128									2	685	15m Gr420	12192		15@450 T&B EW	26224
1129										1130	15m Gr420	1625	L	15 STANDEE	2883
1130										27	15m Gr420	7000		27 15@450 T ADDL	296
1131										27	15m Gr420	1750	L	15@450 T ADDL	74
1132									2	2	15m Gr420	6335		2 15@300 T&B ADDL	39
1133									10	2	15m Gr420	3270		2 15@300 T&B ADDL	102
1134										6	10m Gr420	6700		10@450 B ADDL	31
1135										23	10m Gr420	6500		10@450 B ADDL	117
1136										27	10m Gr420	5900		10@450 B ADDL	124
1137									12	2	15m Gr420	2500		2 15 T ADDL	94
1138									2	1	15m Gr420	2500		1 15 MT ADDL	7
1139										1	15m Gr420	5000		1 15 MB ADDL	7
1140										14	10m Gr420	5000		10@450 B ADDL	54
1141										31	20m Gr420	3500		31 20@450 T ADDL	255
1142										8	10m Gr420	7500		10@450 B ADDL	47
1143										5	15m Gr420	2750		5 15@450 T ADDL	21
1144										7	15m Gr420	13500		10@450 B ADDL	148
1145									2	7	15m Gr420	1700	L	15@450 T ADDL	37
1146										2	15m Gr420	13000		2 15@300 T&B ADDL	40
1147										2	15m Gr420	5000	L	2 15@450 T ADDL	15
1148									2	6	20m Gr420	7000		6 20@450 T ADDL	197
1149										7	20m Gr420	4500		7 20@450 T ADDL	73
1150										20	10m Gr420	4500		10@450 B ADDL	70

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1151										6	15m Gr420	2600		6 15@600 MT ADDL	24
1152										2	15m Gr420	2000		2 15@300 T&B ADDL	6
1153										7	15m Gr420	6700		15@450 B ADDL	73
1154										2	15m Gr420	3400		2 15@300 T&B ADDL	10
1155										8	10m Gr420	7500		10@450 B ADDL	47
1156										5	20m Gr420	10000		5 20@450 T ADDL	117
1157										14	10m Gr420	5000		10@450 B ADDL	54
1158										9	20m Gr420	4000		9 20@450 T ADDL	84
1159										2	15m Gr420	3500		2 15@450 T ADDL	10
1160										8	20m Gr420	3500		8 20@450 T ADDL	65
1161										23	10m Gr420	8000		10@450 B ADDL	144
1162										4	10m Gr420	5000		10@450 B ADDL	15
1163										4	10m Gr420	6000		10@450 B ADDL	18
1164										8	20m Gr420	3000	L	8 20@450 T ADDL	56
1165										17	20m Gr420	3500		17 20@450 T ADDL	140
1166										15	10m Gr420	5500		10@450 B ADDL	64
1167										2	20m Gr420	6000		2 20@450 T ADDL	28
1168										4	15m Gr420	1750	L	4 15@450 T ADDL	10
1169										5	15m Gr420	6330		15@450 B ADDL	49
1170									2	2	15m Gr420	6000		2 15@450 T&B ADDL	37
1171										4	15m Gr420	6050		15@450 B ADDL	38
1172										2	20m Gr420	3700		2 20@450 T ADDL	17
1173										4	20m Gr420	3000		4 20@450 T ADDL	28

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1174										10	20m Gr420	3500		10 20@450 T ADDL	82
1175										5	15m Gr420	3500		5 15@450 T ADDL	27
1176										8	15m Gr420	3500		8 15@450 T ADDL	43
1177									2	2	20m Gr420	9000		2 20 ADDL	84
1178										9	20m Gr420	3500		9 20@450 T ADDL	73
1179									2	9	15m Gr420	1750	L	15@450 T ADDL	49
1180										6	15m Gr420	2000	L	6 15@500 MT ADDL	19
1181										10	20m Gr420	7000		10 20 ADDL	164
1182										16	15m Gr420	5000		15@450 B ADDL	125
1183										20	15m Gr420	4500		20 15@450 MT ADDL	141
1184										35	15m Gr420	7000		15@450 T ADDL	384
1185									2	2	15m Gr420	3000		2 15 T ADDL	19
1186										16	20m Gr420	3500		16 20@450 T ADDL	131
1187										26	10m Gr420	5000		10@450 B ADDL	102
1188										5	15m Gr420	3500		5 15@450 MT ADDL	27
1189										17	20m Gr420	3500		17 20@450 T ADDL	140
1190										8	20m Gr420	3000	L	8 20@450 T ADDL	56
1191										4	10m Gr420	6000		10@450 B ADDL	18
1192										4	15m Gr420	5000		15@450 B ADDL	31
1193										16	10m Gr420	5500		10@450 B ADDL	68
1194										2	20m Gr420	6000		2 20@450 T ADDL	28
1195										4	15m Gr420	1750	L	4 15@450 T ADDL	10
1196										8	15m Gr420	6400		15@450 B ADDL	80

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1197										4	15m Gr420	6000		15@450 B ADDL	37
1198									2	2	15m Gr420	6070		15@300 T&B ADDL	38
1199										10	20m Gr420	3500		10 20@450 T ADDL	82
1200										4	20m Gr420	3000		4 20@450 T ADDL	28
1201										2	20m Gr420	2170		4 20@450 T ADDL	10
1202									2	2	15m Gr420	3260		2 15@450 T&B ADDL	20
1203										9	15m Gr420	1700	L	15@450 T ADDL	24
1204									2	6	10m Gr420	6700		10@450 B ADDL	63
1205									10	2	15m Gr420	3300		2 15@300 T&B ADDL	103
1206									2	2	15m Gr420	27950		2 15@300 T&B ADDL	175
1207									2	30	15m Gr420	7000		30 15@450 T ADDL	659
1208										9	10m Gr420	5000		10@450 B ADDL	35
1209										39	10m Gr420	5000		10@450 B ADDL	152
1210									2	2	15m Gr420	5000		2 15 T ADDL	31
1211										33	15m Gr420	5100		10@450 B ADDL	264
1212										29	15m Gr420	1750	L	15@450 T ADDL	79
1213										13	15m Gr420	7500		15@450 B ADDL	152
1214										8	15m Gr420	5000		15@450 B ADDL	62
1215									4	2	15m Gr420	4500		2 15@300 T&B ADDL	56
1216									2	2	15m Gr420	6550		2 15@300 T&B ADDL	41
1217										2	15m Gr420	2500		2 15 MT ADDL	7
1218										30	15m Gr420	4000		30 15@450 T ADDL	188
1219										26	10m Gr420	10330		10@450 B ADDL	210



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1243									2	14	20m Gr420	4210	H	14 20 VERT	277
1244									2	14	10m Gr420	2580	L	10 @250 TIES	56
1245									2	14	10m Gr420	1100	L	10 @250 TIES	24
1246 COLUMN MARK C8 (2 LOC)															
1247									2	14	20m Gr420	4210	H	14 20 VERT	277
1248									2	14	10m Gr420	2900	L	10 @250 TIES	63
1249						2			2	14	10m Gr420	720	L	10 @250 TIES	31
1250									2	14	10m Gr420	300	L	10 @250 LINKS	6
1251 COLUMN MARK C9 (4 LOC)															
1252									4	14	20m Gr420	4210	H	14 20 VERT	555
1253									4	14	10m Gr420	3000	L	10 @250 TIES	131
1254						2			4	14	10m Gr420	720	L	10 @250 TIES	63
1255									4	14	10m Gr420	300	L	10 @250 LINKS	13
1256															
1257				>2ND FLR WALL	SECOND FLOOR WALL										
1258 WALL W1 (2930 mm)															
1259									2	10	15m Gr420	4210		15 @350 VERT EF	131
1260									2	12	15m Gr420	3430		15 @300 HOR EF	129
1261									2	4	15m Gr420	4210		4 15 ADDL VERT	53
1262									2	14	10m Gr420	700	L	10 @250 TIES	15
1263									2	16	15m Gr420	1390	H	15 @200 DWL EF	69
1264 ELEVATOR SHAFT WALL W1															
1265									2	94	15m Gr420	4210		15 @350 VERT EF	1242

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1266									2	12	15m Gr420	5730		15 @300 HOR EF	215
1267									2	12	15m Gr420	4680		15 @300 HOR EF	176
1268									2	12	15m Gr420	2580		15 @300 HOR EF	97
1269									2	12	15m Gr420	8400		15 @300 HOR EF	316
1270						2			2	12	15m Gr420	2900		15 @300 HOR EF	218
1271									2	12	15m Gr420	5100		15 @300 HOR EF	192
1272						8			2	12	15m Gr420	2000	H	15 @300 COR EF	602
1273									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
1274									3	12	15m Gr420	4210		12 15@150 ADDL VERT	238
1275									3	12	10m Gr420	2225	L	10 @300 TIES	62
1276									3	12	10m Gr420	900	L	10 @300 TIES	25
1277									2	4	20m Gr420	4210		4 20@150 ADDL VERT	79
1278									2	12	10m Gr420	1050	L	10 @300 TIES	19
1279									4	16	20m Gr420	4210		16 20@150 ADDL VERT	634
1280									4	12	10m Gr420	2850	L	10 @300 TIES	107
1281						2			4	12	10m Gr420	900	L	10 @300 TIES	67
1282										16	25m Gr420	4210		16 25@150 ADDL VERT	264
1283										12	10m Gr420	2850	L	10 @300 TIES	26
1284									2	12	10m Gr420	900	L	10 @300 TIES	16
1285										8	15m Gr420	4210		12 15@150 ADDL VERT	53
1286										12	10m Gr420	2200	L	10 @300 TIES	20
1287										12	10m Gr420	900	L	10 @300 TIES	8
1288										12	15m Gr420	4210		12 15@150 ADDL VERT	79



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1289										12	10m Gr420	2000	L	10 @300 TIES	18
1290										12	10m Gr420	900	L	10 @300 TIES	8
1291										24	25m Gr420	4210		24 25@150 ADDL VERT	396
1292										12	10m Gr420	2750	L	10 @300 TIES	25
1293										12	10m Gr420	2000	L	10 @300 TIES	18
1294									3	12	10m Gr420	900	L	10 @300 TIES	25
1295									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
1296 STAIR CORE WALL W1															
1297									2	56	15m Gr420	4210		15 @350 VERT EF	740
1298									2	12	15m Gr420	5920		15 @300 HOR EF	223
1299						2			2	12	15m Gr420	5100		15 @300 HOR EF	384
1300									2	12	15m Gr420	2910		15 @300 HOR EF	109
1301						4			2	12	15m Gr420	2000	H	15 @300 COR EF	301
1302						3				28	20m Gr420	4210		28 20@150 ADDL VERT	832
1303						3			2	12	10m Gr420	2840	L	10 @300 TIES	160
1304						3			4	12	10m Gr420	900	L	10 @300 TIES	101
1305						2				16	20m Gr420	4210		16 20@150 ADDL VERT	317
1306						2				12	10m Gr420	2840	L	10 @300 TIES	53
1307						2			2	12	10m Gr420	900	L	10 @300 TIES	34
1308										4	15m Gr420	4210		4 15@150 ADDL VERT	26
1309										12	10m Gr420	900	L	10 @300 TIES	8
1310									2	98	15m Gr420	1390	H	15 @200 DWL EF	427
1311 WALL W2 (5800 mm)															

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1312									2	18	15m Gr420	4210		15 @350 VERT EF	238
1313									2	12	15m Gr420	5800		15 @300 HOR EF	218
1314									6	6	15m Gr420	4210		6 15 ADDL VERT	238
1315									6	14	10m Gr420	800	L	10 @250 TIES	52
1316									2	30	15m Gr420	1390	H	15 @200 DWL EF	131
1317 WALL W3 (74125 mm)															
1318									2	213	15m Gr420	4210		15 @350 VERT EF	2815
1319									2	12	15m Gr420	77800		15 @300 HOR EF	2931
1320									44	8	15m Gr420	4210		8 15 ADDL VERT	2326
1321									44	14	10m Gr420	1000	L	10 @250 TIES	483
1322									2	372	15m Gr420	1390	H	15 @200 DWL EF	1623
1323 WALL W4 (26425 mm)															
1324									2	77	15m Gr420	4210		15 @350 VERT EF	1017
1325									2	12	15m Gr420	27800		15 @300 HOR EF	1047
1326									8	12	15m Gr420	4210		12 15 ADDL VERT	634
1327									8	14	10m Gr420	1300	L	10 @250 TIES	114
1328									2	135	15m Gr420	1390	H	15 @200 DWL EF	589
1329 WALL W5 (37725 mm)															
1330									2	109	15m Gr420	4210		15 @350 VERT EF	1441
1331									2	12	15m Gr420	39590		15 @300 HOR EF	1491
1332									6	16	15m Gr420	4210		16 15 ADDL VERT	634
1333									6	14	10m Gr420	1600	L	10 @250 TIES	105
1334									2	190	15m Gr420	1390	H	15 @200 DWL EF	829

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1335															
1336				>3RD FLR SLAB											
				THIRD FLOOR SLAB											
1337									2	685	15m Gr420	12192		15@450 T&B EW	26224
1338										1130	15m Gr420	1625	L	15 STANDEE	2883
1339										27	15m Gr420	7000		27 15@450 T ADDL	296
1340										27	15m Gr420	1750	L	15@450 T ADDL	74
1341									2	2	15m Gr420	6335		2 15@300 T&B ADDL	39
1342										23	10m Gr420	6500		10@450 B ADDL	117
1343									10	2	15m Gr420	3270		2 15@300 T&B ADDL	102
1344										6	10m Gr420	6700		10@450 B ADDL	31
1345										27	10m Gr420	5900		10@450 B ADDL	124
1346									12	2	15m Gr420	2500		2 15 T ADDL	94
1347									2	6	15m Gr420	2500		1 15 MT ADDL	47
1348										15	15m Gr420	5000		1 15 MB ADDL	117
1349										14	10m Gr420	5000		10@450 B ADDL	54
1350										31	20m Gr420	3500		31 20@450 T ADDL	255
1351										8	10m Gr420	7500		10@450 B ADDL	47
1352										5	15m Gr420	2750		5 15@450 T ADDL	21
1353										7	15m Gr420	13500		10@450 B ADDL	148
1354									2	7	15m Gr420	1700	L	15@450 T ADDL	37
1355										2	15m Gr420	13000		2 15@300 T&B ADDL	40
1356										2	15m Gr420	5000	L	2 15@450 T ADDL	15
1357									2	6	20m Gr420	7000		6 20@450 T ADDL	197

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1358										7	20m Gr420	4500		7 20@450 T ADDL	73
1359										20	10m Gr420	4500		10@450 B ADDL	70
1360										6	15m Gr420	2600		6 15@600 MT ADDL	24
1361										2	15m Gr420	2000		2 15@300 T&B ADDL	6
1362										8	15m Gr420	6700		15@450 B ADDL	84
1363										2	15m Gr420	3400		2 15@300 T&B ADDL	10
1364										8	10m Gr420	7500		10@450 B ADDL	47
1365										5	20m Gr420	10000		5 20@450 T ADDL	117
1366										14	10m Gr420	5000		10@450 B ADDL	54
1367										9	20m Gr420	4000		9 20@450 T ADDL	84
1368										2	15m Gr420	3500		2 15@450 T ADDL	10
1369										8	20m Gr420	3500		8 20@450 T ADDL	65
1370										23	10m Gr420	8000		10@450 B ADDL	144
1371										4	10m Gr420	5000		10@450 B ADDL	15
1372										4	10m Gr420	6000		10@450 B ADDL	18
1373										8	20m Gr420	3000	L	8 20@450 T ADDL	56
1374										17	20m Gr420	3500		17 20@450 T ADDL	140
1375										15	10m Gr420	5500		10@450 B ADDL	64
1376										8	20m Gr420	6000		2 20@450 T ADDL	112
1377										4	15m Gr420	1750	L	4 15@450 T ADDL	10
1378										5	15m Gr420	6330		15@450 B ADDL	49
1379									2	15	15m Gr420	6000		2 15@450 T&B ADDL	282
1380										4	15m Gr420	6050		15@450 B ADDL	38

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1381										2	20m Gr420	3700		2 20@450 T ADDL	17
1382										4	20m Gr420	3000		4 20@450 T ADDL	28
1383										10	20m Gr420	3500		10 20@450 T ADDL	82
1384										5	15m Gr420	3500		5 15@450 T ADDL	27
1385										8	15m Gr420	3500		8 15@450 T ADDL	43
1386									2	2	20m Gr420	9000		2 20 ADDL	84
1387										9	20m Gr420	3500		9 20@450 T ADDL	73
1388									2	9	15m Gr420	1750	L	15@450 T ADDL	49
1389										6	15m Gr420	2000	L	6 15@500 MT ADDL	19
1390										10	20m Gr420	7000		10 20 ADDL	164
1391										16	15m Gr420	5000		15@450 B ADDL	125
1392										20	15m Gr420	4500		20 15@450 MT ADDL	141
1393										35	15m Gr420	7000		15@450 T ADDL	384
1394									2	2	15m Gr420	3000		2 15 T ADDL	19
1395										16	20m Gr420	3500		16 20@450 T ADDL	131
1396										26	10m Gr420	5000		10@450 B ADDL	102
1397										5	15m Gr420	3500		5 15@450 MT ADDL	27
1398										17	20m Gr420	3500		17 20@450 T ADDL	140
1399										8	20m Gr420	3000	L	8 20@450 T ADDL	56
1400										4	10m Gr420	6000		10@450 B ADDL	18
1401										4	15m Gr420	5000		15@450 B ADDL	31
1402										16	10m Gr420	5500		10@450 B ADDL	68
1403										2	20m Gr420	6000		2 20@450 T ADDL	28

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1404										4	15m Gr420	1750	L	4 15@450 T ADDL	10
1405										8	15m Gr420	6400		15@450 B ADDL	80
1406										4	15m Gr420	6000		15@450 B ADDL	37
1407									2	8	15m Gr420	6070		15@300 T&B ADDL	152
1408										10	20m Gr420	3500		10 20@450 T ADDL	82
1409										4	20m Gr420	3000		4 20@450 T ADDL	28
1410										2	20m Gr420	2170		4 20@450 T ADDL	10
1411									2	2	15m Gr420	3260		2 15@450 T&B ADDL	20
1412										9	15m Gr420	1700	L	15@450 T ADDL	24
1413									2	6	10m Gr420	6700		10@450 B ADDL	63
1414									10	2	15m Gr420	3300		2 15@300 T&B ADDL	103
1415									2	2	15m Gr420	27950		2 15@300 T&B ADDL	175
1416									2	30	15m Gr420	7000		30 15@450 T ADDL	659
1417										9	10m Gr420	5000		10@450 B ADDL	35
1418										39	10m Gr420	5000		10@450 B ADDL	152
1419									2	2	15m Gr420	5000		2 15 T ADDL	31
1420										33	15m Gr420	5100		10@450 B ADDL	264
1421										29	15m Gr420	1750	L	15@450 T ADDL	79
1422										13	15m Gr420	7500		15@450 B ADDL	152
1423										8	15m Gr420	5000		15@450 B ADDL	62
1424									4	2	15m Gr420	4500		2 15@300 T&B ADDL	56
1425									2	7	15m Gr420	6550		2 15@300 T&B ADDL	143
1426										2	15m Gr420	2500		2 15 MT ADDL	7

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1427										30	15m Gr420	4000		30 15@450 T ADDL	188
1428										26	10m Gr420	10330		10@450 B ADDL	210
1429										5	15m Gr420	8500		5 15@450 T ADDL	66
1430										6	20m Gr420	5000	L	6 20@450 T ADDL	70
1431										6	20m Gr420	1750	L	6 20@450 T ADDL	24
1432										14	15m Gr420	1750	L	15@450 T ADDL	38
1433										3	15m Gr420	1700	L	3 15@450 T ADDL	8
1434										4	15m Gr420	3500	L	4 15@450 T ADDL	21
1435										5	15m Gr420	7000		5 15@450 T ADDL	54
1436										11	10m Gr420	5000		10@450 B ADDL	43
1437										7	15m Gr420	6700		15@450 B ADDL	73
1438									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40
1439									2	2	15m Gr420	1930		2 15@300 T&B ADDL	12
1440									2	2	15m Gr420	3330		2 15@300 T&B ADDL	20
1441									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40
1442										6	15m Gr420	1700	L	15@450 T ADDL	15
1443									40	3	10m Gr420	700	L	3 10@100 STIRR	65
1444									2	18	15m Gr420	12192		1 15 CONT T&B	689
1445									2	18	15m Gr420	12192		2 15@200 B CONT	689
1446															
1447				>3RD FLR COL										THIRD FLOOR COLUMN	
1448				COLUMN MARK C2 (20 LOC)											
1449									20	8	20m Gr420	4210	H	8 20 VERT	1585

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1450									20	12	10m Gr420	1400	L	10 @300 TIES	263
1451 COLUMN MARK C5 (2 LOC)															
1452									2	14	20m Gr420	4210	H	14 20 VERT	277
1453									2	14	10m Gr420	2580	L	10 @250 TIES	56
1454									2	14	10m Gr420	1100	L	10 @250 TIES	24
1455 COLUMN MARK C8 (2 LOC)															
1456									2	14	20m Gr420	4210	H	14 20 VERT	277
1457									2	14	10m Gr420	2900	L	10 @250 TIES	63
1458						2			2	14	10m Gr420	720	L	10 @250 TIES	31
1459									2	14	10m Gr420	300	L	10 @250 LINKS	6
1460 COLUMN MARK C9 (4 LOC)															
1461									4	14	20m Gr420	4210	H	14 20 VERT	555
1462									4	14	10m Gr420	3000	L	10 @250 TIES	131
1463						2			4	14	10m Gr420	720	L	10 @250 TIES	63
1464									4	14	10m Gr420	300	L	10 @250 LINKS	13
1465															
1466 >3RD FLR WALL THIRD FLOOR WALL															
1467 WALL W1 (11730 mm)															
1468									2	35	15m Gr420	4210		15 @350 VERT EF	462
1469									2	12	15m Gr420	11730		15 @300 HOR EF	441
1470									6	5	15m Gr420	4210		4 15 ADDL VERT	198
1471									6	14	10m Gr420	700	L	10 @250 TIES	46
1472									2	60	15m Gr420	1390	H	15 @200 DWL EF	261



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1473	ELEVATOR SHAFT WALL W1														
1474									2	94	15m Gr420	4210		15 @350 VERT EF	1242
1475									2	12	15m Gr420	5730		15 @300 HOR EF	215
1476									2	12	15m Gr420	4680		15 @300 HOR EF	176
1477									2	12	15m Gr420	2580		15 @300 HOR EF	97
1478									2	12	15m Gr420	8400		15 @300 HOR EF	316
1479						2			2	12	15m Gr420	2900		15 @300 HOR EF	218
1480									2	12	15m Gr420	5100		15 @300 HOR EF	192
1481						8			2	12	15m Gr420	2000	H	15 @300 COR EF	602
1482									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
1483									3	6	15m Gr420	4210		6 15@150 ADDL VERT	118
1484									3	12	10m Gr420	1350	L	10 @300 TIES	38
1485									2	4	15m Gr420	4210		4 15@150 ADDL VERT	53
1486									2	12	10m Gr420	1000	L	10 @300 TIES	18
1487									5	12	15m Gr420	4210		12 15@150 ADDL VERT	396
1488									5	12	10m Gr420	2260	L	10 @300 TIES	106
1489									5	12	10m Gr420	1000	L	10 @300 TIES	47
1490									20	15m Gr420	4210		20 15@150 ADDL VERT	131	
1491									12	10m Gr420	2175	L	10 @300 TIES	20	
1492									12	10m Gr420	1975	L	10 @300 TIES	18	
1493									2	12	10m Gr420	1000	L	10 @300 TIES	18
1494									14	15m Gr420	4210		14 15@150 ADDL VERT	92	
1495									12	10m Gr420	2200	L	10 @300 TIES	20	

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1496										12	10m Gr420	1850	L	10 @300 TIES	17
1497										12	10m Gr420	900	L	10 @300 TIES	8
1498									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
1499 STAIR CORE WALL W1															
1500									2	56	15m Gr420	4210		15 @350 VERT EF	740
1501									2	12	15m Gr420	5920		15 @300 HOR EF	223
1502						2			2	12	15m Gr420	5100		15 @300 HOR EF	384
1503									2	12	15m Gr420	2910		15 @300 HOR EF	109
1504						4			2	12	15m Gr420	2000	H	15 @300 COR EF	301
1505						3				20	20m Gr420	4210		20 20@150 ADDL VERT	594
1506						3			2	12	10m Gr420	2200	L	10 @300 TIES	124
1507						3			2	12	10m Gr420	900	L	10 @300 TIES	50
1508						2				16	20m Gr420	4210		16 20@150 ADDL VERT	317
1509						2				12	10m Gr420	2840	L	10 @300 TIES	53
1510						2				12	10m Gr420	900	L	10 @300 TIES	16
1511									2	98	15m Gr420	1390	H	15 @200 DWL EF	427
1512 WALL W2 (3850 mm)															
1513									2	13	15m Gr420	4210		15 @350 VERT EF	171
1514									2	12	15m Gr420	3430		15 @300 HOR EF	129
1515									4	6	15m Gr420	4210		6 15 ADDL VERT	158
1516									4	14	10m Gr420	800	L	10 @250 TIES	34
1517									2	21	15m Gr420	1390	H	15 @200 DWL EF	91
1518 WALL W3 (74125 mm)															

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1519									2	213	15m Gr420	4210		15 @350 VERT EF	2815
1520									2	12	15m Gr420	77800		15 @300 HOR EF	2931
1521									44	8	15m Gr420	4210		8 15 ADDL VERT	2326
1522									44	14	10m Gr420	1000	L	10 @250 TIES	483
1523									2	372	15m Gr420	1390	H	15 @200 DWL EF	1623
1524 WALL W4 (26425 mm)															
1525									2	77	15m Gr420	4210		15 @350 VERT EF	1017
1526									2	12	15m Gr420	27800		15 @300 HOR EF	1047
1527									8	12	15m Gr420	4210		12 15 ADDL VERT	634
1528									8	14	10m Gr420	1300	L	10 @250 TIES	114
1529									2	135	15m Gr420	1390	H	15 @200 DWL EF	589
1530 WALL W5 (37725 mm)															
1531									2	109	15m Gr420	4210		15 @350 VERT EF	1441
1532									2	12	15m Gr420	39590		15 @300 HOR EF	1491
1533									6	16	15m Gr420	4210		16 15 ADDL VERT	634
1534									6	14	10m Gr420	1600	L	10 @250 TIES	105
1535									2	190	15m Gr420	1390	H	15 @200 DWL EF	829
1536															
1537 >4TH FLR SLAB FOURTH FLOOR SLAB															
1538									2	685	15m Gr420	12192		15@450 T&B EW	26224
1539										1130	15m Gr420	1625	L	15 STANDEE	2883
1540										27	15m Gr420	7000		27 15@450 T ADDL	296
1541										27	15m Gr420	1750	L	15@450 T ADDL	74

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1542									2	2	15m Gr420	6335		2 15@300 T&B ADDL	39
1543									10	2	15m Gr420	3270		2 15@300 T&B ADDL	102
1544										6	10m Gr420	6700		10@450 B ADDL	31
1545										27	10m Gr420	5900		10@450 B ADDL	124
1546									12	2	15m Gr420	2500		2 15 T ADDL	94
1547									2	5	15m Gr420	2500		1 15 MT ADDL	39
1548										5	15m Gr420	5000		1 15 MB ADDL	39
1549										14	10m Gr420	5000		10@450 B ADDL	54
1550										31	20m Gr420	3500		31 20@450 T ADDL	255
1551										8	10m Gr420	7500		10@450 B ADDL	47
1552										5	15m Gr420	2750		5 15@450 T ADDL	21
1553										7	15m Gr420	13500		10@450 B ADDL	148
1554									2	7	15m Gr420	1700	L	15@450 T ADDL	37
1555										2	15m Gr420	13000		2 15@300 T&B ADDL	40
1556										2	15m Gr420	5000	L	2 15@450 T ADDL	15
1557									2	6	20m Gr420	7000		6 20@450 T ADDL	197
1558										7	20m Gr420	4500		7 20@450 T ADDL	73
1559										20	10m Gr420	4500		10@450 B ADDL	70
1560										6	15m Gr420	2600		6 15@600 MT ADDL	24
1561										2	15m Gr420	2000		2 15@300 T&B ADDL	6
1562										7	15m Gr420	6700		15@450 B ADDL	73
1563										2	15m Gr420	3400		2 15@300 T&B ADDL	10
1564										8	10m Gr420	7500		10@450 B ADDL	47

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1565										5	20m Gr420	10000		5 20@450 T ADDL	117
1566										14	10m Gr420	5000		10@450 B ADDL	54
1567										9	20m Gr420	4000		9 20@450 T ADDL	84
1568										2	15m Gr420	3500		2 15@450 T ADDL	10
1569										8	20m Gr420	3500		8 20@450 T ADDL	65
1570										23	10m Gr420	8000		10@450 B ADDL	144
1571										4	10m Gr420	5000		10@450 B ADDL	15
1572										4	10m Gr420	6000		10@450 B ADDL	18
1573										8	20m Gr420	3000	L	8 20@450 T ADDL	56
1574										17	20m Gr420	3500		17 20@450 T ADDL	140
1575										15	10m Gr420	5500		10@450 B ADDL	64
1576										2	20m Gr420	6000		2 20@450 T ADDL	28
1577										4	15m Gr420	1750	L	4 15@450 T ADDL	10
1578										5	15m Gr420	6330		15@450 B ADDL	49
1579									2	2	15m Gr420	6000		2 15@450 T&B ADDL	37
1580										4	15m Gr420	6050		15@450 B ADDL	38
1581										8	20m Gr420	3700		2 20@450 T ADDL	69
1582										4	20m Gr420	3000		4 20@450 T ADDL	28
1583										10	20m Gr420	3500		10 20@450 T ADDL	82
1584										5	15m Gr420	3500		5 15@450 T ADDL	27
1585										23	10m Gr420	6500		10@450 B ADDL	117
1586										8	15m Gr420	3500		8 15@450 T ADDL	43
1587									2	2	20m Gr420	9000		2 20 ADDL	84

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1588										9	20m Gr420	3500		9 20@450 T ADDL	73
1589									2	9	15m Gr420	1750	L	15@450 T ADDL	49
1590										6	15m Gr420	2000	L	6 15@500 MT ADDL	19
1591										10	20m Gr420	7000		10 20 ADDL	164
1592										16	15m Gr420	5000		15@450 B ADDL	125
1593										20	15m Gr420	4500		20 15@450 MT ADDL	141
1594										35	15m Gr420	7000		15@450 T ADDL	384
1595									2	2	15m Gr420	3000		2 15 T ADDL	19
1596										16	20m Gr420	3500		16 20@450 T ADDL	131
1597										26	10m Gr420	5000		10@450 B ADDL	102
1598										5	15m Gr420	3500		5 15@450 MT ADDL	27
1599										17	20m Gr420	3500		17 20@450 T ADDL	140
1600										8	20m Gr420	3000	L	8 20@450 T ADDL	56
1601										4	10m Gr420	6000		10@450 B ADDL	18
1602										4	15m Gr420	5000		15@450 B ADDL	31
1603										16	10m Gr420	5500		10@450 B ADDL	68
1604										2	20m Gr420	6000		2 20@450 T ADDL	28
1605										4	15m Gr420	1750	L	4 15@450 T ADDL	10
1606										8	15m Gr420	6400		15@450 B ADDL	80
1607										4	15m Gr420	6000		15@450 B ADDL	37
1608									2	2	15m Gr420	6070		15@300 T&B ADDL	38
1609										10	20m Gr420	3500		10 20@450 T ADDL	82
1610										4	20m Gr420	3000		4 20@450 T ADDL	28

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1611										9	20m Gr420	2170		4 20@450 T ADDL	45
1612									2	8	15m Gr420	3260		2 15@450 T&B ADDL	82
1613										9	15m Gr420	1700	L	15@450 T ADDL	24
1614									2	6	10m Gr420	6700		10@450 B ADDL	63
1615									10	2	15m Gr420	3300		2 15@300 T&B ADDL	103
1616									2	2	15m Gr420	27950		2 15@300 T&B ADDL	175
1617									2	30	15m Gr420	7000		30 15@450 T ADDL	659
1618										9	10m Gr420	5000		10@450 B ADDL	35
1619										39	10m Gr420	5000		10@450 B ADDL	152
1620									2	2	15m Gr420	5000		2 15 T ADDL	31
1621										33	15m Gr420	5100		10@450 B ADDL	264
1622										29	15m Gr420	1750	L	15@450 T ADDL	79
1623										13	15m Gr420	7500		15@450 B ADDL	152
1624										8	15m Gr420	5000		15@450 B ADDL	62
1625									4	2	15m Gr420	4500		2 15@300 T&B ADDL	56
1626									2	2	15m Gr420	6550		2 15@300 T&B ADDL	41
1627										2	15m Gr420	2500		2 15 MT ADDL	7
1628										30	15m Gr420	4000		30 15@450 T ADDL	188
1629										26	10m Gr420	10330		10@450 B ADDL	210
1630										5	15m Gr420	8500		5 15@450 T ADDL	66
1631										6	20m Gr420	5000	L	6 20@450 T ADDL	70
1632										6	20m Gr420	1750	L	6 20@450 T ADDL	24
1633										14	15m Gr420	1750	L	15@450 T ADDL	38

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1634										3	15m Gr420	1700	L	3 15@450 T ADDL	8
1635										4	15m Gr420	3500	L	4 15@450 T ADDL	21
1636										5	15m Gr420	7000		5 15@450 T ADDL	54
1637										11	10m Gr420	5000		10@450 B ADDL	43
1638										7	15m Gr420	6700		15@450 B ADDL	73
1639									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40
1640									2	2	15m Gr420	1930		2 15@300 T&B ADDL	12
1641									2	2	15m Gr420	3330		2 15@300 T&B ADDL	20
1642									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40
1643										6	15m Gr420	1700	L	15@450 T ADDL	15
1644									40	14	10m Gr420	700	L	3 10@100 STIRR	307
1645									2	18	15m Gr420	12192		1 15 CONT T&B	689
1646									2	18	15m Gr420	12192		2 15@200 B CONT	689
1647															
1648				>4TH FLR COL										FOURTH FLOOR COLUMN	
1649				COLUMN MARK C2 (20 LOC)											
1650									20	8	20m Gr420	4210	H	8 20 VERT	1585
1651									20	12	10m Gr420	1400	L	10 @300 TIES	263
1652				COLUMN MARK C5 (2 LOC)											
1653									2	14	20m Gr420	4210	H	14 20 VERT	277
1654									2	14	10m Gr420	2580	L	10 @250 TIES	56
1655									2	14	10m Gr420	1100	L	10 @250 TIES	24
1656				COLUMN MARK C8 (2 LOC)											



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1657									2	14	20m Gr420	4210	H	14 20 VERT	277
1658									2	14	10m Gr420	2900	L	10 @250 TIES	63
1659						2			2	14	10m Gr420	720	L	10 @250 TIES	31
1660									2	14	10m Gr420	300	L	10 @250 LINKS	6
1661 COLUMN MARK C9 (4 LOC)															
1662									4	14	20m Gr420	4210	H	14 20 VERT	555
1663									4	14	10m Gr420	3000	L	10 @250 TIES	131
1664						2			4	14	10m Gr420	720	L	10 @250 TIES	63
1665									4	14	10m Gr420	300	L	10 @250 LINKS	13
1666															
1667 >4TH FLR WALL				FOURTH FLOOR WALL											
1668 WALL W1 (11730 mm)															
1669									2	35	15m Gr420	4210		15 @350 VERT EF	462
1670									2	12	15m Gr420	11730		15 @300 HOR EF	441
1671									6	4	15m Gr420	4210		4 15 ADDL VERT	158
1672									6	14	10m Gr420	700	L	10 @250 TIES	46
1673									2	60	15m Gr420	1390	H	15 @200 DWL EF	261
1674 ELEVATOR SHAFT WALL W1															
1675									2	94	15m Gr420	4210		15 @350 VERT EF	1242
1676									2	12	15m Gr420	5730		15 @300 HOR EF	215
1677									2	12	15m Gr420	4680		15 @300 HOR EF	176
1678									2	12	15m Gr420	2580		15 @300 HOR EF	97
1679									2	12	15m Gr420	8400		15 @300 HOR EF	316

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1680						2			2	12	15m Gr420	2900		15 @300 HOR EF	218
1681									2	12	15m Gr420	5100		15 @300 HOR EF	192
1682						8			2	12	15m Gr420	2000	H	15 @300 COR EF	602
1683									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
1684									3	6	15m Gr420	4210		6 15@150 ADDL VERT	118
1685									3	12	10m Gr420	1350	L	10 @300 TIES	38
1686									2	4	15m Gr420	4210		4 15@150 ADDL VERT	53
1687									2	12	10m Gr420	1000	L	10 @300 TIES	18
1688									5	12	15m Gr420	4210		12 15@150 ADDL VERT	396
1689									5	12	10m Gr420	2260	L	10 @300 TIES	106
1690									5	12	10m Gr420	1000	L	10 @300 TIES	47
1691										20	15m Gr420	4210		20 15@150 ADDL VERT	131
1692										12	10m Gr420	2175	L	10 @300 TIES	20
1693										12	10m Gr420	1975	L	10 @300 TIES	18
1694									2	12	10m Gr420	1000	L	10 @300 TIES	18
1695										14	15m Gr420	4210		14 15@150 ADDL VERT	92
1696										12	10m Gr420	2200	L	10 @300 TIES	20
1697										12	10m Gr420	1850	L	10 @300 TIES	17
1698										12	10m Gr420	900	L	10 @300 TIES	8
1699									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
1700	STAIR CORE WALL W1														
1701									2	56	15m Gr420	4210		15 @350 VERT EF	740
1702									2	12	15m Gr420	5920		15 @300 HOR EF	223

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1703						2			2	12	15m Gr420	5100		15 @300 HOR EF	384
1704									2	12	15m Gr420	2910		15 @300 HOR EF	109
1705						4			2	12	15m Gr420	2000	H	15 @300 COR EF	301
1706						3				20	20m Gr420	4210		20 20@150 ADDL VERT	594
1707						3			2	12	10m Gr420	2200	L	10 @300 TIES	124
1708						3			2	12	10m Gr420	900	L	10 @300 TIES	50
1709						2				16	20m Gr420	4210		16 20@150 ADDL VERT	317
1710						2				12	10m Gr420	2840	L	10 @300 TIES	53
1711						2				12	10m Gr420	900	L	10 @300 TIES	16
1712									2	98	15m Gr420	1390	H	15 @200 DWL EF	427
1713 WALL W2 (3850 mm)															
1714									2	13	15m Gr420	4210		15 @350 VERT EF	171
1715									2	12	15m Gr420	3430		15 @300 HOR EF	129
1716									4	6	15m Gr420	4210		6 15 ADDL VERT	158
1717									4	14	10m Gr420	800	L	10 @250 TIES	34
1718									2	21	15m Gr420	1390	H	15 @200 DWL EF	91
1719 WALL W3 (74125 mm)															
1720									2	213	15m Gr420	4210		15 @350 VERT EF	2815
1721									2	12	15m Gr420	77800		15 @300 HOR EF	2931
1722									44	8	15m Gr420	4210		8 15 ADDL VERT	2326
1723									44	14	10m Gr420	1000	L	10 @250 TIES	483
1724									2	372	15m Gr420	1390	H	15 @200 DWL EF	1623
1725 WALL W4 (26425 mm)															

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1726									2	77	15m Gr420	4210		15 @350 VERT EF	1017
1727									2	12	15m Gr420	27800		15 @300 HOR EF	1047
1728									8	12	15m Gr420	4210		12 15 ADDL VERT	634
1729									8	14	10m Gr420	1300	L	10 @250 TIES	114
1730									2	135	15m Gr420	1390	H	15 @200 DWL EF	589
1731 WALL W5 (37725 mm)															
1732									2	109	15m Gr420	4210		15 @350 VERT EF	1441
1733									2	12	15m Gr420	39590		15 @300 HOR EF	1491
1734									6	16	15m Gr420	4210		16 15 ADDL VERT	634
1735									6	14	10m Gr420	1600	L	10 @250 TIES	105
1736									2	190	15m Gr420	1390	H	15 @200 DWL EF	829
1737															
1738 >5RD FLR SLAB FIFTH FLOOR SLAB															
1739									2	685	15m Gr420	12192		15@450 T&B EW	26224
1740										1130	15m Gr420	1625	L	15 STANDEE	2883
1741										27	15m Gr420	7000		27 15@450 T ADDL	296
1742										27	15m Gr420	1750	L	15@450 T ADDL	74
1743									2	2	15m Gr420	6335		2 15@300 T&B ADDL	39
1744									10	2	15m Gr420	3270		2 15@300 T&B ADDL	102
1745										6	10m Gr420	6700		10@450 B ADDL	31
1746										27	10m Gr420	5900		10@450 B ADDL	124
1747									12	2	15m Gr420	2500		2 15 T ADDL	94
1748									2	1	15m Gr420	2500		1 15 MT ADDL	7

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1749										1	15m Gr420	5000		1 15 MB ADDL	7
1750										14	10m Gr420	5000		10@450 B ADDL	54
1751										23	10m Gr420	6500		10@450 B ADDL	117
1752										31	20m Gr420	3500		31 20@450 T ADDL	255
1753										8	10m Gr420	7500		10@450 B ADDL	47
1754										5	15m Gr420	2750		5 15@450 T ADDL	21
1755										7	15m Gr420	13500		10@450 B ADDL	148
1756									2	7	15m Gr420	1700	L	15@450 T ADDL	37
1757										2	15m Gr420	13000		2 15@300 T&B ADDL	40
1758										2	15m Gr420	5000	L	2 15@450 T ADDL	15
1759									2	6	20m Gr420	7000		6 20@450 T ADDL	197
1760										7	20m Gr420	4500		7 20@450 T ADDL	73
1761										20	10m Gr420	4500		10@450 B ADDL	70
1762										6	15m Gr420	2600		6 15@600 MT ADDL	24
1763										2	15m Gr420	2000		2 15@300 T&B ADDL	6
1764										7	15m Gr420	6700		15@450 B ADDL	73
1765										16	15m Gr420	3400		2 15@300 T&B ADDL	85
1766										8	10m Gr420	7500		10@450 B ADDL	47
1767										5	20m Gr420	10000		5 20@450 T ADDL	117
1768										14	10m Gr420	5000		10@450 B ADDL	54
1769										9	20m Gr420	4000		9 20@450 T ADDL	84
1770										2	15m Gr420	3500		2 15@450 T ADDL	10
1771										8	20m Gr420	3500		8 20@450 T ADDL	65

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1772										23	10m Gr420	8000		10@450 B ADDL	144
1773										4	10m Gr420	5000		10@450 B ADDL	15
1774										4	10m Gr420	6000		10@450 B ADDL	18
1775										8	20m Gr420	3000	L	8 20@450 T ADDL	56
1776										17	20m Gr420	3500		17 20@450 T ADDL	140
1777										15	10m Gr420	5500		10@450 B ADDL	64
1778										2	20m Gr420	6000		2 20@450 T ADDL	28
1779										4	15m Gr420	1750	L	4 15@450 T ADDL	10
1780										5	15m Gr420	6330		15@450 B ADDL	49
1781									2	2	15m Gr420	6000		2 15@450 T&B ADDL	37
1782										4	15m Gr420	6050		15@450 B ADDL	38
1783										2	20m Gr420	3700		2 20@450 T ADDL	17
1784										4	20m Gr420	3000		4 20@450 T ADDL	28
1785										10	20m Gr420	3500		10 20@450 T ADDL	82
1786										5	15m Gr420	3500		5 15@450 T ADDL	27
1787										8	15m Gr420	3500		8 15@450 T ADDL	43
1788									2	2	20m Gr420	9000		2 20 ADDL	84
1789										9	20m Gr420	3500		9 20@450 T ADDL	73
1790									2	9	15m Gr420	1750	L	15@450 T ADDL	49
1791										6	15m Gr420	2000	L	6 15@500 MT ADDL	19
1792										10	20m Gr420	7000		10 20 ADDL	164
1793										16	15m Gr420	5000		15@450 B ADDL	125
1794										20	15m Gr420	4500		20 15@450 MT ADDL	141

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1795										35	15m Gr420	7000		15@450 T ADDL	384
1796									2	16	15m Gr420	3000		2 15 T ADDL	150
1797										16	20m Gr420	3500		16 20@450 T ADDL	131
1798										26	10m Gr420	5000		10@450 B ADDL	102
1799										5	15m Gr420	3500		5 15@450 MT ADDL	27
1800										17	20m Gr420	3500		17 20@450 T ADDL	140
1801										8	20m Gr420	3000	L	8 20@450 T ADDL	56
1802										4	10m Gr420	6000		10@450 B ADDL	18
1803										4	15m Gr420	5000		15@450 B ADDL	31
1804										16	10m Gr420	5500		10@450 B ADDL	68
1805										2	20m Gr420	6000		2 20@450 T ADDL	28
1806										4	15m Gr420	1750	L	4 15@450 T ADDL	10
1807										8	15m Gr420	6400		15@450 B ADDL	80
1808										4	15m Gr420	6000		15@450 B ADDL	37
1809									2	2	15m Gr420	6070		15@300 T&B ADDL	38
1810										10	20m Gr420	3500		10 20@450 T ADDL	82
1811										4	20m Gr420	3000		4 20@450 T ADDL	28
1812										2	20m Gr420	2170		4 20@450 T ADDL	10
1813									2	2	15m Gr420	3260		2 15@450 T&B ADDL	20
1814										9	15m Gr420	1700	L	15@450 T ADDL	24
1815									2	6	10m Gr420	6700		10@450 B ADDL	63
1816									10	2	15m Gr420	3300		2 15@300 T&B ADDL	103
1817									2	2	15m Gr420	27950		2 15@300 T&B ADDL	175

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1818									2	30	15m Gr420	7000		30 15@450 T ADDL	659
1819										9	10m Gr420	5000		10@450 B ADDL	35
1820										39	10m Gr420	5000		10@450 B ADDL	152
1821									2	2	15m Gr420	5000		2 15 T ADDL	31
1822										33	15m Gr420	5100		10@450 B ADDL	264
1823										29	15m Gr420	1750	L	15@450 T ADDL	79
1824										13	15m Gr420	7500		15@450 B ADDL	152
1825										8	15m Gr420	5000		15@450 B ADDL	62
1826									4	2	15m Gr420	4500		2 15@300 T&B ADDL	56
1827									2	2	15m Gr420	6550		2 15@300 T&B ADDL	41
1828										2	15m Gr420	2500		2 15 MT ADDL	7
1829										30	15m Gr420	4000		30 15@450 T ADDL	188
1830										26	10m Gr420	10330		10@450 B ADDL	210
1831										5	15m Gr420	8500		5 15@450 T ADDL	66
1832										6	20m Gr420	5000	L	6 20@450 T ADDL	70
1833										6	20m Gr420	1750	L	6 20@450 T ADDL	24
1834										14	15m Gr420	1750	L	15@450 T ADDL	38
1835										3	15m Gr420	1700	L	3 15@450 T ADDL	8
1836										4	15m Gr420	3500	L	4 15@450 T ADDL	21
1837										5	15m Gr420	7000		5 15@450 T ADDL	54
1838										11	10m Gr420	5000		10@450 B ADDL	43
1839										7	15m Gr420	6700		15@450 B ADDL	73
1840									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40



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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1841									2	2	15m Gr420	1930		2 15@300 T&B ADDL	12
1842									2	2	15m Gr420	3330		2 15@300 T&B ADDL	20
1843									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40
1844										6	15m Gr420	1700	L	15@450 T ADDL	15
1845									40	3	10m Gr420	700	L	3 10@100 STIRR	65
1846									2	18	15m Gr420	12192		1 15 CONT T&B	689
1847									2	18	15m Gr420	12192		2 15@200 B CONT	689
1848															
1849				>5TH FLR COL										FIFTH FLOOR COLUMN	
1850				COLUMN MARK C2 (20 LOC)											
1851									20	8	20m Gr420	4210	H	8 20 VERT	1585
1852									20	12	10m Gr420	1400	L	10 @300 TIES	263
1853				COLUMN MARK C5 (2 LOC)											
1854									2	14	20m Gr420	4210	H	14 20 VERT	277
1855									2	14	10m Gr420	2580	L	10 @250 TIES	56
1856									2	14	10m Gr420	1100	L	10 @250 TIES	24
1857				COLUMN MARK C8 (2 LOC)											
1858									2	14	20m Gr420	4210	H	14 20 VERT	277
1859									2	14	10m Gr420	2900	L	10 @250 TIES	63
1860									2	14	10m Gr420	720	L	10 @250 TIES	31
1861									2	14	10m Gr420	300	L	10 @250 LINKS	6
1862				COLUMN MARK C9 (4 LOC)											
1863									4	14	20m Gr420	4210	H	14 20 VERT	555

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1864									4	14	10m Gr420	3000	L	10 @250 TIES	131
1865						2			4	14	10m Gr420	720	L	10 @250 TIES	63
1866									4	14	10m Gr420	300	L	10 @250 LINKS	13
1867															
1868				>5TH FLR WALL										FIFTH FLOOR WALL	
1869				WALL W1 (11730 mm)											
1870									2	35	15m Gr420	4210		15 @350 VERT EF	462
1871									2	12	15m Gr420	11730		15 @300 HOR EF	441
1872									6	4	15m Gr420	4210		4 15 ADDL VERT	158
1873									6	14	10m Gr420	700	L	10 @250 TIES	46
1874									2	60	15m Gr420	1390	H	15 @200 DWL EF	261
1875				ELEVATOR SHAFT WALL W1											
1876									2	94	15m Gr420	4210		15 @350 VERT EF	1242
1877									2	12	15m Gr420	5730		15 @300 HOR EF	215
1878									2	12	15m Gr420	4680		15 @300 HOR EF	176
1879									2	12	15m Gr420	2580		15 @300 HOR EF	97
1880									2	12	15m Gr420	8400		15 @300 HOR EF	316
1881						2			2	12	15m Gr420	2900		15 @300 HOR EF	218
1882									2	12	15m Gr420	5100		15 @300 HOR EF	192
1883						8			2	12	15m Gr420	2000	H	15 @300 COR EF	602
1884									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
1885									3	6	15m Gr420	4210		6 15@150 ADDL VERT	118
1886									3	12	10m Gr420	1350	L	10 @300 TIES	38

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG	
1887									2	4	15m Gr420	4210		4 15@150 ADDL VERT	53	
1888									2	12	10m Gr420	1000	L	10 @300 TIES	18	
1889									5	12	15m Gr420	4210		12 15@150 ADDL VERT	396	
1890									5	12	10m Gr420	2260	L	10 @300 TIES	106	
1891									5	12	10m Gr420	1000	L	10 @300 TIES	47	
1892										20	15m Gr420	4210		20 15@150 ADDL VERT	131	
1893										12	10m Gr420	2175	L	10 @300 TIES	20	
1894										12	10m Gr420	1975	L	10 @300 TIES	18	
1895									2	12	10m Gr420	1000	L	10 @300 TIES	18	
1896										14	15m Gr420	4210		14 15@150 ADDL VERT	92	
1897										12	10m Gr420	2200	L	10 @300 TIES	20	
1898										12	10m Gr420	1850	L	10 @300 TIES	17	
1899										12	10m Gr420	900	L	10 @300 TIES	8	
1900									2	163	15m Gr420	1390	H	15 @200 DWL EF	711	
1901	STAIR CORE WALL W1															
1902									2	56	15m Gr420	4210		15 @350 VERT EF	740	
1903									2	12	15m Gr420	5920		15 @300 HOR EF	223	
1904						2			2	12	15m Gr420	5100		15 @300 HOR EF	384	
1905										2	12	15m Gr420	2910		15 @300 HOR EF	109
1906						4			2	12	15m Gr420	2000	H	15 @300 COR EF	301	
1907						3				20	20m Gr420	4210		20 20@150 ADDL VERT	594	
1908						3			2	12	10m Gr420	2200	L	10 @300 TIES	124	
1909						3			2	12	10m Gr420	900	L	10 @300 TIES	50	

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1910						2				16	20m Gr420	4210		16 20@150 ADDL VERT	317
1911						2				12	10m Gr420	2840	L	10 @300 TIES	53
1912						2				12	10m Gr420	900	L	10 @300 TIES	16
1913									2	98	15m Gr420	1390	H	15 @200 DWL EF	427
1914 WALL W2 (3850 mm)															
1915									2	13	15m Gr420	4210		15 @350 VERT EF	171
1916									2	12	15m Gr420	3430		15 @300 HOR EF	129
1917									4	6	15m Gr420	4210		6 15 ADDL VERT	158
1918									4	14	10m Gr420	800	L	10 @250 TIES	34
1919									2	21	15m Gr420	1390	H	15 @200 DWL EF	91
1920 WALL W3 (74125 mm)															
1921									2	213	15m Gr420	4210		15 @350 VERT EF	2815
1922									2	12	15m Gr420	77800		15 @300 HOR EF	2931
1923									44	8	15m Gr420	4210		8 15 ADDL VERT	2326
1924									44	14	10m Gr420	1000	L	10 @250 TIES	483
1925									2	372	15m Gr420	1390	H	15 @200 DWL EF	1623
1926 WALL W4 (26425 mm)															
1927									2	77	15m Gr420	4210		15 @350 VERT EF	1017
1928									2	12	15m Gr420	27800		15 @300 HOR EF	1047
1929									8	12	15m Gr420	4210		12 15 ADDL VERT	634
1930									8	14	10m Gr420	1300	L	10 @250 TIES	114
1931									2	135	15m Gr420	1390	H	15 @200 DWL EF	589
1932 WALL W5 (37725 mm)															

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1933									2	109	15m Gr420	4210		15 @350 VERT EF	1441
1934									2	12	15m Gr420	39590		15 @300 HOR EF	1491
1935									6	16	15m Gr420	4210		16 15 ADDL VERT	634
1936									6	14	10m Gr420	1600	L	10 @250 TIES	105
1937									2	190	15m Gr420	1390	H	15 @200 DWL EF	829
1938															
1939				>6TH FLR SLAB							SIXTH FLOOR SLAB				
1940									2	685	15m Gr420	12192		15@450 T&B EW	26224
1941										1130	15m Gr420	1625	L	15 STANDEE	2883
1942										27	15m Gr420	7000		27 15@450 T ADDL	296
1943										27	15m Gr420	1750	L	15@450 T ADDL	74
1944									2	2	15m Gr420	6335		2 15@300 T&B ADDL	39
1945									10	2	15m Gr420	3270		2 15@300 T&B ADDL	102
1946										6	10m Gr420	6700		10@450 B ADDL	31
1947										27	10m Gr420	5900		10@450 B ADDL	124
1948									12	2	15m Gr420	2500		2 15 T ADDL	94
1949									2	8	15m Gr420	2500		1 15 MT ADDL	62
1950										8	15m Gr420	5000		1 15 MB ADDL	62
1951										14	10m Gr420	5000		10@450 B ADDL	54
1952										31	20m Gr420	3500		31 20@450 T ADDL	255
1953										23	10m Gr420	6500		10@450 B ADDL	117
1954										8	10m Gr420	7500		10@450 B ADDL	47
1955										5	15m Gr420	2750		5 15@450 T ADDL	21

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1956										7	15m Gr420	13500		10@450 B ADDL	148
1957									2	7	15m Gr420	1700	L	15@450 T ADDL	37
1958										2	15m Gr420	13000		2 15@300 T&B ADDL	40
1959										2	15m Gr420	5000	L	2 15@450 T ADDL	15
1960									2	6	20m Gr420	7000		6 20@450 T ADDL	197
1961										7	20m Gr420	4500		7 20@450 T ADDL	73
1962										20	10m Gr420	4500		10@450 B ADDL	70
1963										6	15m Gr420	2600		6 15@600 MT ADDL	24
1964										2	15m Gr420	2000		2 15@300 T&B ADDL	6
1965										7	15m Gr420	6700		15@450 B ADDL	73
1966										2	15m Gr420	3400		2 15@300 T&B ADDL	10
1967										8	10m Gr420	7500		10@450 B ADDL	47
1968										5	20m Gr420	10000		5 20@450 T ADDL	117
1969										14	10m Gr420	5000		10@450 B ADDL	54
1970										9	20m Gr420	4000		9 20@450 T ADDL	84
1971										2	15m Gr420	3500		2 15@450 T ADDL	10
1972										8	20m Gr420	3500		8 20@450 T ADDL	65
1973										23	10m Gr420	8000		10@450 B ADDL	144
1974										4	10m Gr420	5000		10@450 B ADDL	15
1975										4	10m Gr420	6000		10@450 B ADDL	18
1976										8	20m Gr420	3000	L	8 20@450 T ADDL	56
1977										17	20m Gr420	3500		17 20@450 T ADDL	140
1978										15	10m Gr420	5500		10@450 B ADDL	64

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
1979										2	20m Gr420	6000		2 20@450 T ADDL	28
1980										4	15m Gr420	1750	L	4 15@450 T ADDL	10
1981										5	15m Gr420	6330		15@450 B ADDL	49
1982									2	2	15m Gr420	6000		2 15@450 T&B ADDL	37
1983										4	15m Gr420	6050		15@450 B ADDL	38
1984										2	20m Gr420	3700		2 20@450 T ADDL	17
1985										4	20m Gr420	3000		4 20@450 T ADDL	28
1986										10	20m Gr420	3500		10 20@450 T ADDL	82
1987										5	15m Gr420	3500		5 15@450 T ADDL	27
1988										8	15m Gr420	3500		8 15@450 T ADDL	43
1989									2	2	20m Gr420	9000		2 20 ADDL	84
1990										9	20m Gr420	3500		9 20@450 T ADDL	73
1991									2	9	15m Gr420	1750	L	15@450 T ADDL	49
1992										6	15m Gr420	2000	L	6 15@500 MT ADDL	19
1993										10	20m Gr420	7000		10 20 ADDL	164
1994										16	15m Gr420	5000		15@450 B ADDL	125
1995										20	15m Gr420	4500		20 15@450 MT ADDL	141
1996										35	15m Gr420	7000		15@450 T ADDL	384
1997									2	2	15m Gr420	3000		2 15 T ADDL	19
1998										16	20m Gr420	3500		16 20@450 T ADDL	131
1999										26	10m Gr420	5000		10@450 B ADDL	102
2000										5	15m Gr420	3500		5 15@450 MT ADDL	27
2001										17	20m Gr420	3500		17 20@450 T ADDL	140

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2002										8	20m Gr420	3000	L	8 20@450 T ADDL	56
2003										4	10m Gr420	6000		10@450 B ADDL	18
2004										4	15m Gr420	5000		15@450 B ADDL	31
2005										16	10m Gr420	5500		10@450 B ADDL	68
2006										8	20m Gr420	6000		2 20@450 T ADDL	112
2007										4	15m Gr420	1750	L	4 15@450 T ADDL	10
2008										8	15m Gr420	6400		15@450 B ADDL	80
2009										4	15m Gr420	6000		15@450 B ADDL	37
2010									2	2	15m Gr420	6070		15@300 T&B ADDL	38
2011										10	20m Gr420	3500		10 20@450 T ADDL	82
2012										4	20m Gr420	3000		4 20@450 T ADDL	28
2013										2	20m Gr420	2170		4 20@450 T ADDL	10
2014									2	2	15m Gr420	3260		2 15@450 T&B ADDL	20
2015										9	15m Gr420	1700	L	15@450 T ADDL	24
2016									2	6	10m Gr420	6700		10@450 B ADDL	63
2017									10	2	15m Gr420	3300		2 15@300 T&B ADDL	103
2018									2	2	15m Gr420	27950		2 15@300 T&B ADDL	175
2019									2	30	15m Gr420	7000		30 15@450 T ADDL	659
2020										9	10m Gr420	5000		10@450 B ADDL	35
2021										39	10m Gr420	5000		10@450 B ADDL	152
2022									2	2	15m Gr420	5000		2 15 T ADDL	31
2023										33	15m Gr420	5100		10@450 B ADDL	264
2024										29	15m Gr420	1750	L	15@450 T ADDL	79



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2025										13	15m Gr420	7500		15@450 B ADDL	152
2026										8	15m Gr420	5000		15@450 B ADDL	62
2027									4	2	15m Gr420	4500		2 15@300 T&B ADDL	56
2028									2	2	15m Gr420	6550		2 15@300 T&B ADDL	41
2029										2	15m Gr420	2500		2 15 MT ADDL	7
2030										30	15m Gr420	4000		30 15@450 T ADDL	188
2031										26	10m Gr420	10330		10@450 B ADDL	210
2032										5	15m Gr420	8500		5 15@450 T ADDL	66
2033										6	20m Gr420	5000	L	6 20@450 T ADDL	70
2034										6	20m Gr420	1750	L	6 20@450 T ADDL	24
2035										14	15m Gr420	1750	L	15@450 T ADDL	38
2036										3	15m Gr420	1700	L	3 15@450 T ADDL	8
2037										16	15m Gr420	3500	L	4 15@450 T ADDL	87
2038										5	15m Gr420	7000		5 15@450 T ADDL	54
2039										11	10m Gr420	5000		10@450 B ADDL	43
2040										7	15m Gr420	6700		15@450 B ADDL	73
2041									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40
2042									2	2	15m Gr420	1930		2 15@300 T&B ADDL	12
2043									2	2	15m Gr420	3330		2 15@300 T&B ADDL	20
2044									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40
2045										6	15m Gr420	1700	L	15@450 T ADDL	15
2046									40	3	10m Gr420	700	L	3 10@100 STIRR	65
2047									2	18	15m Gr420	12192		1 15 CONT T&B	689

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2048									2	18	15m Gr420	12192		2 15@200 B CONT	689
2049															
2050				>6TH FLR COL							SIXTH FLOOR COLUMN				
2051 COLUMN MARK C2 (20 LOC)															
2052									20	8	20m Gr420	4500	H	8 20 VERT	1695
2053									20	13	10m Gr420	1400	L	10 @300 TIES	285
2054 COLUMN MARK C5 (2 LOC)															
2055									2	14	20m Gr420	4500	H	14 20 VERT	296
2056									2	15	10m Gr420	2580	L	10 @250 TIES	60
2057									2	15	10m Gr420	1100	L	10 @250 TIES	25
2058 COLUMN MARK C8 (2 LOC)															
2059									2	14	20m Gr420	4500	H	14 20 VERT	296
2060									2	15	10m Gr420	2900	L	10 @250 TIES	68
2061						2			2	15	10m Gr420	720	L	10 @250 TIES	34
2062									2	15	10m Gr420	300	L	10 @250 LINKS	7
2063 COLUMN MARK C9 (4 LOC)															
2064									4	14	20m Gr420	4500	H	14 20 VERT	593
2065									4	15	10m Gr420	3000	L	10 @250 TIES	141
2066						2			4	15	10m Gr420	720	L	10 @250 TIES	67
2067									4	15	10m Gr420	300	L	10 @250 LINKS	14
2068															
2069				>6TH FLR WALL							SIXTH FLOOR WALL				
2070 WALL W1 (11730 mm)															

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2071									2	35	15m Gr420	4500		15 @350 VERT EF	494
2072									2	13	15m Gr420	11730		15 @300 HOR EF	479
2073									6	4	15m Gr420	4500		4 15 ADDL VERT	169
2074									6	15	10m Gr420	700	L	10 @250 TIES	49
2075									2	66	15m Gr420	1390	H	15 @200 DWL EF	288
2076 ELEVATOR SHAFT WALL W1															
2077									2	94	15m Gr420	4500		15 @350 VERT EF	1328
2078									2	13	15m Gr420	5730		15 @300 HOR EF	234
2079									2	13	15m Gr420	4680		15 @300 HOR EF	190
2080									2	13	15m Gr420	2580		15 @300 HOR EF	105
2081									2	13	15m Gr420	8400		15 @300 HOR EF	342
2082						2			2	13	15m Gr420	2900		15 @300 HOR EF	236
2083									2	13	15m Gr420	5100		15 @300 HOR EF	208
2084						8			2	13	15m Gr420	2000	H	15 @300 COR EF	653
2085									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
2086									3	6	15m Gr420	4500		6 15@150 ADDL VERT	127
2087									3	13	10m Gr420	1350	L	10 @300 TIES	41
2088									2	8	15m Gr420	4500		4 15@150 ADDL VERT	112
2089									2	13	10m Gr420	1000	L	10 @300 TIES	20
2090									5	12	15m Gr420	4500		12 15@150 ADDL VERT	424
2091									5	13	10m Gr420	2260	L	10 @300 TIES	115
2092									5	13	10m Gr420	1000	L	10 @300 TIES	50
2093										20	15m Gr420	4500		20 15@150 ADDL VERT	141

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2094										13	10m Gr420	2175	L	10 @300 TIES	22
2095										13	10m Gr420	1975	L	10 @300 TIES	19
2096									2	13	10m Gr420	1000	L	10 @300 TIES	20
2097										14	15m Gr420	4500		14 15@150 ADDL VERT	98
2098										13	10m Gr420	2200	L	10 @300 TIES	22
2099										13	10m Gr420	1850	L	10 @300 TIES	19
2100										13	10m Gr420	900	L	10 @300 TIES	9
2101									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
2102 STAIR CORE WALL W1															
2103									2	56	15m Gr420	4500		15 @350 VERT EF	791
2104									2	13	15m Gr420	5920		15 @300 HOR EF	241
2105						2			2	13	15m Gr420	5100		15 @300 HOR EF	416
2106									2	13	15m Gr420	2910		15 @300 HOR EF	118
2107						4			2	13	15m Gr420	2000	H	15 @300 COR EF	326
2108						3				20	20m Gr420	4500		20 20@150 ADDL VERT	635
2109						3			2	13	10m Gr420	2200	L	10 @300 TIES	134
2110						3			2	13	10m Gr420	900	L	10 @300 TIES	54
2111						2				16	20m Gr420	4500		16 20@150 ADDL VERT	338
2112						2				13	10m Gr420	2840	L	10 @300 TIES	58
2113						2				13	10m Gr420	900	L	10 @300 TIES	18
2114 WALL W2 (3850 mm)															
2115									2	13	15m Gr420	4500		15 @350 VERT EF	183
2116									2	13	15m Gr420	3430		15 @300 HOR EF	140

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2117									4	6	15m Gr420	4500		6 15 ADDL VERT	169
2118									4	15	10m Gr420	800	L	10 @250 TIES	37
2119									2	21	15m Gr420	1390	H	15 @200 DWL EF	91
2120									2	98	15m Gr420	1390	H	15 @200 DWL EF	427
2121 WALL W3 (74125 mm)															
2122									2	213	15m Gr420	4500		15 @350 VERT EF	3009
2123									2	13	15m Gr420	77800		15 @300 HOR EF	3175
2124									44	8	15m Gr420	4500		8 15 ADDL VERT	2487
2125									44	15	10m Gr420	1000	L	10 @250 TIES	517
2126									2	372	15m Gr420	1390	H	15 @200 DWL EF	1623
2127 WALL W4 (26425 mm)															
2128									2	77	15m Gr420	4500		15 @350 VERT EF	1088
2129									2	13	15m Gr420	27800		15 @300 HOR EF	1134
2130									8	13	15m Gr420	4500		12 15 ADDL VERT	734
2131									8	15	10m Gr420	1300	L	10 @250 TIES	122
2132									2	135	15m Gr420	1390	H	15 @200 DWL EF	589
2133 WALL W5 (37725 mm)															
2134									2	109	15m Gr420	4500		15 @350 VERT EF	1540
2135									2	13	15m Gr420	39590		15 @300 HOR EF	1616
2136									6	16	15m Gr420	4500		16 15 ADDL VERT	678
2137									6	15	10m Gr420	1600	L	10 @250 TIES	112
2138									2	190	15m Gr420	1390	H	15 @200 DWL EF	829
2139															

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2140				>7TH FLR SLAB							SEVENTH FLOOR SLAB				
2141									2	665	15m Gr420	12192		15@450 T&B EW	25458
2142										1130	15m Gr420	1625	L	15 STANDEE	2883
2143										27	15m Gr420	7000		27 15@450 T ADDL	296
2144										27	15m Gr420	1750	L	15@450 T ADDL	74
2145									2	2	15m Gr420	6335		2 15@300 T&B ADDL	39
2146									10	2	15m Gr420	3270		2 15@300 T&B ADDL	102
2147										6	10m Gr420	6700		10@450 B ADDL	31
2148										27	10m Gr420	5900		10@450 B ADDL	124
2149									12	2	15m Gr420	2500		2 15 T ADDL	94
2150									2	8	15m Gr420	2500		1 15 MT ADDL	62
2151										6	15m Gr420	5000		1 15 MB ADDL	47
2152										14	10m Gr420	5000		10@450 B ADDL	54
2153										31	20m Gr420	3500		31 20@450 T ADDL	255
2154										23	10m Gr420	6500		10@450 B ADDL	117
2155										8	10m Gr420	7500		10@450 B ADDL	47
2156										5	15m Gr420	2750		5 15@450 T ADDL	21
2157										7	15m Gr420	13500		10@450 B ADDL	148
2158									2	7	15m Gr420	1700	L	15@450 T ADDL	37
2159										2	15m Gr420	13000		2 15@300 T&B ADDL	40
2160										2	15m Gr420	5000	L	2 15@450 T ADDL	15
2161									2	6	20m Gr420	7000		6 20@450 T ADDL	197
2162										7	20m Gr420	4500		7 20@450 T ADDL	73

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2163										20	10m Gr420	4500		10@450 B ADDL	70
2164										6	15m Gr420	2600		6 15@600 MT ADDL	24
2165										2	15m Gr420	2000		2 15@300 T&B ADDL	6
2166										7	15m Gr420	6700		15@450 B ADDL	73
2167										2	15m Gr420	3400		2 15@300 T&B ADDL	10
2168										8	10m Gr420	7500		10@450 B ADDL	47
2169										5	20m Gr420	10000		5 20@450 T ADDL	117
2170										14	10m Gr420	5000		10@450 B ADDL	54
2171										9	20m Gr420	4000		9 20@450 T ADDL	84
2172										2	15m Gr420	3500		2 15@450 T ADDL	10
2173										8	20m Gr420	3500		8 20@450 T ADDL	65
2174										23	10m Gr420	8000		10@450 B ADDL	144
2175										4	10m Gr420	5000		10@450 B ADDL	15
2176										4	10m Gr420	6000		10@450 B ADDL	18
2177										8	20m Gr420	3000	L	8 20@450 T ADDL	56
2178										17	20m Gr420	3500		17 20@450 T ADDL	140
2179										15	10m Gr420	5500		10@450 B ADDL	64
2180										2	20m Gr420	6000		2 20@450 T ADDL	28
2181										8	15m Gr420	1750	L	4 15@450 T ADDL	21
2182										5	15m Gr420	6330		15@450 B ADDL	49
2183									2	2	15m Gr420	6000		2 15@450 T&B ADDL	37
2184										4	15m Gr420	6050		15@450 B ADDL	38
2185										2	20m Gr420	3700		2 20@450 T ADDL	17

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2186										4	20m Gr420	3000		4 20@450 T ADDL	28
2187										10	20m Gr420	3500		10 20@450 T ADDL	82
2188										5	15m Gr420	3500		5 15@450 T ADDL	27
2189										8	15m Gr420	3500		8 15@450 T ADDL	43
2190									2	2	20m Gr420	9000		2 20 ADDL	84
2191										9	20m Gr420	3500		9 20@450 T ADDL	73
2192									2	9	15m Gr420	1750	L	15@450 T ADDL	49
2193										6	15m Gr420	2000	L	6 15@500 MT ADDL	19
2194										10	20m Gr420	7000		10 20 ADDL	164
2195										16	15m Gr420	5000		15@450 B ADDL	125
2196										20	15m Gr420	4500		20 15@450 MT ADDL	141
2197										35	15m Gr420	7000		15@450 T ADDL	384
2198									2	2	15m Gr420	3000		2 15 T ADDL	19
2199										16	20m Gr420	3500		16 20@450 T ADDL	131
2200										26	10m Gr420	5000		10@450 B ADDL	102
2201										5	15m Gr420	3500		5 15@450 MT ADDL	27
2202										17	20m Gr420	3500		17 20@450 T ADDL	140
2203										8	20m Gr420	3000	L	8 20@450 T ADDL	56
2204										4	10m Gr420	6000		10@450 B ADDL	18
2205										4	15m Gr420	5000		15@450 B ADDL	31
2206										16	10m Gr420	5500		10@450 B ADDL	68
2207										2	20m Gr420	6000		2 20@450 T ADDL	28
2208										4	15m Gr420	1750	L	4 15@450 T ADDL	10



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2209										8	15m Gr420	6400		15@450 B ADDL	80
2210										4	15m Gr420	6000		15@450 B ADDL	37
2211									2	2	15m Gr420	6070		15@300 T&B ADDL	38
2212										10	20m Gr420	3500		10 20@450 T ADDL	82
2213										8	20m Gr420	3000		4 20@450 T ADDL	56
2214										2	20m Gr420	2170		4 20@450 T ADDL	10
2215									2	2	15m Gr420	3260		2 15@450 T&B ADDL	20
2216										9	15m Gr420	1700	L	15@450 T ADDL	24
2217									2	6	10m Gr420	6700		10@450 B ADDL	63
2218									10	2	15m Gr420	3300		2 15@300 T&B ADDL	103
2219									2	2	15m Gr420	27950		2 15@300 T&B ADDL	175
2220									2	30	15m Gr420	7000		30 15@450 T ADDL	659
2221										39	10m Gr420	5000		10@450 B ADDL	152
2222									2	2	15m Gr420	5000		2 15 T ADDL	31
2223										33	15m Gr420	5100		10@450 B ADDL	264
2224										29	15m Gr420	1750	L	15@450 T ADDL	79
2225										13	15m Gr420	7500		15@450 B ADDL	152
2226									4	2	15m Gr420	4500		2 15@300 T&B ADDL	56
2227									2	2	15m Gr420	6550		2 15@300 T&B ADDL	41
2228										2	15m Gr420	2500		2 15 MT ADDL	7
2229										30	15m Gr420	4000		30 15@450 T ADDL	188
2230										26	10m Gr420	10330		10@450 B ADDL	210
2231										14	15m Gr420	1750	L	15@450 T ADDL	38

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2232									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40
2233									2	2	15m Gr420	1930		2 15@300 T&B ADDL	12
2234									2	2	15m Gr420	3330		2 15@300 T&B ADDL	20
2235									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40
2236										6	15m Gr420	1700	L	15@450 T ADDL	15
2237									40	3	10m Gr420	700	L	3 10@100 STIRR	65
2238									2	18	15m Gr420	12192		1 15 CONT T&B	689
2239									2	18	15m Gr420	12192		2 15@200 B CONT	689
2240															
2241	>7TH FLR COL				SEVENTH FLOOR COLUMN										
2242	COLUMN MARK C2 (20 LOC)														
2243									13	8	20m Gr420	4360	H	8 20 VERT	1067
2244									13	13	10m Gr420	1400	L	10 @300 TIES	185
2245	COLUMN MARK C5 (2 LOC)														
2246									2	14	20m Gr420	4360	H	14 20 VERT	287
2247									2	15	10m Gr420	2580	L	10 @250 TIES	60
2248									2	15	10m Gr420	1100	L	10 @250 TIES	25
2249	COLUMN MARK C9 (4 LOC)														
2250									4	14	20m Gr420	4360	H	14 20 VERT	574
2251									4	15	10m Gr420	3000	L	10 @250 TIES	141
2252						2			4	15	10m Gr420	720	L	10 @250 TIES	67
2253									4	15	10m Gr420	300	L	10 @250 LINKS	14
2254															

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2255				>7TH FLR WALL										SEVENTH FLOOR WALL	
2256				WALL W1 (21790 mm)											
2257									2	64	15m Gr420	4360		15 @350 VERT EF	876
2258									2	13	15m Gr420	21790		15 @300 HOR EF	889
2259									22	4	15m Gr420	4360		4 15 ADDL VERT	602
2260									22	15	10m Gr420	700	L	10 @250 TIES	180
2261									2	110	15m Gr420	1390	H	15 @200 DWL EF	479
2262				ELEVATOR SHAFT WALL W1											
2263									2	94	15m Gr420	4360		15 @350 VERT EF	1286
2264									2	13	15m Gr420	5730		15 @300 HOR EF	234
2265									2	13	15m Gr420	4680		15 @300 HOR EF	190
2266									2	13	15m Gr420	2580		15 @300 HOR EF	105
2267									2	13	15m Gr420	8400		15 @300 HOR EF	342
2268						2			2	13	15m Gr420	2900		15 @300 HOR EF	236
2269									2	13	15m Gr420	5100		15 @300 HOR EF	208
2270						8			2	13	15m Gr420	2000	H	15 @300 COR EF	653
2271									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
2272									3	6	15m Gr420	4360		6 15@150 ADDL VERT	123
2273									3	13	10m Gr420	1350	L	10 @300 TIES	41
2274									2	6	15m Gr420	4360		4 15@150 ADDL VERT	82
2275									2	13	10m Gr420	1000	L	10 @300 TIES	20
2276									5	13	15m Gr420	4360		12 15@150 ADDL VERT	444
2277									5	13	10m Gr420	2260	L	10 @300 TIES	115

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2278									5	13	10m Gr420	1000	L	10 @300 TIES	50
2279										20	15m Gr420	4360		20 15@150 ADDL VERT	136
2280										13	10m Gr420	2175	L	10 @300 TIES	22
2281										13	10m Gr420	1975	L	10 @300 TIES	19
2282									2	13	10m Gr420	1000	L	10 @300 TIES	20
2283										14	15m Gr420	4360		14 15@150 ADDL VERT	95
2284										13	10m Gr420	2200	L	10 @300 TIES	22
2285										12	10m Gr420	1850	L	10 @300 TIES	17
2286										13	10m Gr420	900	L	10 @300 TIES	9
2287									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
2288	STAIR CORE WALL W1														
2289									2	56	15m Gr420	4360		15 @350 VERT EF	766
2290									2	13	15m Gr420	5920		15 @300 HOR EF	241
2291						2			2	13	15m Gr420	5100		15 @300 HOR EF	416
2292									2	13	15m Gr420	2910		15 @300 HOR EF	118
2293						4			2	13	15m Gr420	2000	H	15 @300 COR EF	326
2294						3				20	20m Gr420	4360		20 20@150 ADDL VERT	615
2295						3			2	13	10m Gr420	2200	L	10 @300 TIES	134
2296						3			2	13	10m Gr420	900	L	10 @300 TIES	54
2297						2				16	20m Gr420	4360		16 20@150 ADDL VERT	328
2298						2				13	10m Gr420	2840	L	10 @300 TIES	58
2299						2				13	10m Gr420	900	L	10 @300 TIES	18
2300									2	98	15m Gr420	1390	H	15 @200 DWL EF	427

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2301 WALL W2 (5810 mm)															
2302									2	18	15m Gr420	4360		15 @350 VERT EF	246
2303									2	13	15m Gr420	5810		15 @300 HOR EF	237
2304									6	6	15m Gr420	4360		6 15 ADDL VERT	246
2305									6	15	10m Gr420	800	L	10 @250 TIES	56
2306									2	31	15m Gr420	1390	H	15 @200 DWL EF	135
2307 WALL W3 (42185 mm)															
2308									2	122	15m Gr420	4360		15 @350 VERT EF	1670
2309									2	13	15m Gr420	44265		15 @300 HOR EF	1807
2310									32	8	15m Gr420	4360		8 15 ADDL VERT	1752
2311									32	15	10m Gr420	1000	L	10 @250 TIES	376
2312									2	212	15m Gr420	1390	H	15 @200 DWL EF	925
2313 WALL W4 (36300 mm)															
2314									2	105	15m Gr420	4360		15 @350 VERT EF	1437
2315									2	13	15m Gr420	39000		15 @300 HOR EF	1592
2316									10	13	15m Gr420	4360		12 15 ADDL VERT	889
2317									10	15	10m Gr420	1300	L	10 @250 TIES	152
2318									2	183	15m Gr420	1390	H	15 @200 DWL EF	798
2319 WALL W5 (26580 mm)															
2320									2	77	15m Gr420	4360		15 @350 VERT EF	1054
2321									2	13	15m Gr420	28000		15 @300 HOR EF	1143
2322									6	16	15m Gr420	4360		16 15 ADDL VERT	657
2323									6	15	10m Gr420	1600	L	10 @250 TIES	112

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LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2324									2	133	15m Gr420	1390	H	15 @200 DWL EF	580
2325															
2326				>8TH FLR SLAB	EIGHTH FLOOR SLAB										
2327									2	612	15m Gr420	12192		15@450 T&B EW	23429
2328										1110	15m Gr420	1625	L	15 STANDEE	2831
2329										27	15m Gr420	7000		27 15@450 T ADDL	296
2330										27	15m Gr420	1750	L	15@450 T ADDL	74
2331									2	2	15m Gr420	6335		2 15@300 T&B ADDL	39
2332									10	2	15m Gr420	3270		2 15@300 T&B ADDL	102
2333										6	10m Gr420	6700		10@450 B ADDL	31
2334										27	10m Gr420	5900		10@450 B ADDL	124
2335									12	2	15m Gr420	2500		2 15 T ADDL	94
2336									2	8	15m Gr420	2500		1 15 MT ADDL	62
2337										1	15m Gr420	5000		1 15 MB ADDL	7
2338										14	10m Gr420	5000		10@450 B ADDL	54
2339										31	20m Gr420	3500		31 20@450 T ADDL	255
2340										23	10m Gr420	6500		10@450 B ADDL	117
2341										8	10m Gr420	7500		10@450 B ADDL	47
2342										5	15m Gr420	2750		5 15@450 T ADDL	21
2343										7	15m Gr420	13500		10@450 B ADDL	148
2344									2	7	15m Gr420	1700	L	15@450 T ADDL	37
2345										2	15m Gr420	13000		2 15@300 T&B ADDL	40
2346										2	15m Gr420	5000	L	2 15@450 T ADDL	15

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2347									2	6	20m Gr420	7000		6 20@450 T ADDL	197
2348										7	20m Gr420	4500		7 20@450 T ADDL	73
2349										20	10m Gr420	4500		10@450 B ADDL	70
2350										6	15m Gr420	2600		6 15@600 MT ADDL	24
2351										7	15m Gr420	6700		15@450 B ADDL	73
2352										8	10m Gr420	7500		10@450 B ADDL	47
2353										5	20m Gr420	10000		5 20@450 T ADDL	117
2354										14	10m Gr420	5000		10@450 B ADDL	54
2355										9	20m Gr420	4000		9 20@450 T ADDL	84
2356										8	20m Gr420	3500		8 20@450 T ADDL	65
2357										23	10m Gr420	8000		10@450 B ADDL	144
2358										8	20m Gr420	3000	L	8 20@450 T ADDL	56
2359										17	20m Gr420	3500		17 20@450 T ADDL	140
2360										15	10m Gr420	5500		10@450 B ADDL	64
2361										2	20m Gr420	6000		2 20@450 T ADDL	28
2362										4	15m Gr420	1750	L	4 15@450 T ADDL	10
2363										5	15m Gr420	6330		15@450 B ADDL	49
2364									2	2	15m Gr420	6000		2 15@450 T&B ADDL	37
2365										4	15m Gr420	6050		15@450 B ADDL	38
2366										2	20m Gr420	3700		2 20@450 T ADDL	17
2367										8	20m Gr420	3000		4 20@450 T ADDL	56
2368										10	20m Gr420	3500		10 20@450 T ADDL	82
2369										5	15m Gr420	3500		5 15@450 T ADDL	27

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2370										8	15m Gr420	3500		8 15@450 T ADDL	43
2371									2	2	20m Gr420	9000		2 20 ADDL	84
2372										9	20m Gr420	3500		9 20@450 T ADDL	73
2373									2	9	15m Gr420	1750	L	15@450 T ADDL	49
2374										6	15m Gr420	2000	L	6 15@500 MT ADDL	19
2375										10	20m Gr420	7000		10 20 ADDL	164
2376										16	15m Gr420	5000		15@450 B ADDL	125
2377										20	15m Gr420	4500		20 15@450 MT ADDL	141
2378										35	15m Gr420	7000		15@450 T ADDL	384
2379									2	2	15m Gr420	3000		2 15 T ADDL	19
2380										16	20m Gr420	3500		16 20@450 T ADDL	131
2381										26	10m Gr420	5000		10@450 B ADDL	102
2382										5	15m Gr420	3500		5 15@450 MT ADDL	27
2383										17	20m Gr420	3500		17 20@450 T ADDL	140
2384										8	20m Gr420	3000	L	8 20@450 T ADDL	56
2385										4	10m Gr420	6000		10@450 B ADDL	18
2386										4	15m Gr420	5000		15@450 B ADDL	31
2387										16	10m Gr420	5500		10@450 B ADDL	68
2388										2	20m Gr420	6000		2 20@450 T ADDL	28
2389										4	15m Gr420	1750	L	4 15@450 T ADDL	10
2390										8	15m Gr420	6400		15@450 B ADDL	80
2391										4	15m Gr420	6000		15@450 B ADDL	37
2392									2	2	15m Gr420	6070		15@300 T&B ADDL	38



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2393										10	20m Gr420	3500		10 20@450 T ADDL	82
2394										4	20m Gr420	3000		4 20@450 T ADDL	28
2395										2	20m Gr420	2170		4 20@450 T ADDL	10
2396									2	2	15m Gr420	3260		2 15@450 T&B ADDL	20
2397										9	15m Gr420	1700	L	15@450 T ADDL	24
2398									2	6	10m Gr420	6700		10@450 B ADDL	63
2399									10	8	15m Gr420	3300		2 15@300 T&B ADDL	414
2400									2	8	15m Gr420	27950		2 15@300 T&B ADDL	702
2401									2	30	15m Gr420	7000		30 15@450 T ADDL	659
2402										39	10m Gr420	5000		10@450 B ADDL	152
2403									2	2	15m Gr420	5000		2 15 T ADDL	31
2404										33	15m Gr420	5100		10@450 B ADDL	264
2405										29	15m Gr420	1750	L	15@450 T ADDL	79
2406										13	15m Gr420	7500		15@450 B ADDL	152
2407									4	2	15m Gr420	4500		2 15@300 T&B ADDL	56
2408									2	2	15m Gr420	6550		2 15@300 T&B ADDL	41
2409										2	15m Gr420	2500		2 15 MT ADDL	7
2410										30	15m Gr420	4000		30 15@450 T ADDL	188
2411										26	10m Gr420	10330		10@450 B ADDL	210
2412										14	15m Gr420	1750	L	15@450 T ADDL	38
2413									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40
2414									2	2	15m Gr420	1930		2 15@300 T&B ADDL	12
2415									2	24	15m Gr420	3330		2 15@300 T&B ADDL	250

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2416									2	2	15m Gr420	6400		2 15@300 T&B ADDL	40
2417										6	15m Gr420	1700	L	15@450 T ADDL	15
2418									40	3	10m Gr420	700	L	3 10@100 STIRR	65
2419									2	18	15m Gr420	12192		1 15 CONT T&B	689
2420									2	18	15m Gr420	12192		2 15@200 B CONT	689
2421															
2422	>8TH FLR COL				EIGHTH FLOOR COLUMN										
2423	COLUMN MARK C5 (2 LOC)														
2424									2	14	20m Gr420	4850	H	14 20 VERT	319
2425									2	14	10m Gr420	2580	L	10 @250 TIES	56
2426									2	14	10m Gr420	1100	L	10 @250 TIES	24
2427	COLUMN MARK C9 (4 LOC)														
2428									4	14	20m Gr420	4850	H	14 20 VERT	639
2429									4	14	10m Gr420	3000	L	10 @250 TIES	131
2430						2			4	14	10m Gr420	720	L	10 @250 TIES	63
2431									4	14	10m Gr420	300	L	10 @250 LINKS	13
2432															
2433	>8TH FLR WALL				EIGHTH FLOOR WALL										
2434	WALL W1 (17830 mm)														
2435									2	52	15m Gr420	4850		15 @350 VERT EF	791
2436									2	14	15m Gr420	18830		15 @300 HOR EF	827
2437									16	4	15m Gr420	4850		4 15 ADDL VERT	487
2438									16	17	10m Gr420	700	L	10 @250 TIES	149

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2439									2	91	15m Gr420	1390	H	15 @200 DWL EF	397
2440	ELEVATOR SHAFT WALL W1														
2441									2	94	15m Gr420	4850		15 @350 VERT EF	1431
2442									2	14	15m Gr420	5730		15 @300 HOR EF	251
2443									2	14	15m Gr420	4680		15 @300 HOR EF	205
2444									2	14	15m Gr420	2580		15 @300 HOR EF	113
2445									2	14	15m Gr420	8400		15 @300 HOR EF	369
2446						2			2	14	15m Gr420	2900		15 @300 HOR EF	254
2447									2	14	15m Gr420	5100		15 @300 HOR EF	224
2448						8			2	14	15m Gr420	2000	H	15 @300 COR EF	703
2449									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
2450									3	6	15m Gr420	4850		6 15@150 ADDL VERT	136
2451									3	14	10m Gr420	1350	L	10 @300 TIES	44
2452									2	16	15m Gr420	4850		4 15@150 ADDL VERT	243
2453									2	14	10m Gr420	1000	L	10 @300 TIES	21
2454									5	14	15m Gr420	4850		12 15@150 ADDL VERT	532
2455									5	14	10m Gr420	2260	L	10 @300 TIES	124
2456									5	14	10m Gr420	1000	L	10 @300 TIES	54
2457									20	15m Gr420	4850		20 15@150 ADDL VERT	152	
2458									14	10m Gr420	2175	L	10 @300 TIES	24	
2459									14	10m Gr420	1975	L	10 @300 TIES	21	
2460									2	14	10m Gr420	1000	L	10 @300 TIES	21
2461									14	15m Gr420	4850		14 15@150 ADDL VERT	106	

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2462										14	10m Gr420	2200	L	10 @300 TIES	24
2463										14	10m Gr420	1850	L	10 @300 TIES	20
2464										14	10m Gr420	900	L	10 @300 TIES	9
2465									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
2466 STAIR CORE WALL W1															
2467									2	56	15m Gr420	4850		15 @350 VERT EF	852
2468									2	14	15m Gr420	5920		15 @300 HOR EF	260
2469						2			2	14	15m Gr420	5100		15 @300 HOR EF	448
2470									2	14	15m Gr420	2910		15 @300 HOR EF	127
2471						4			2	14	15m Gr420	2000	H	15 @300 COR EF	351
2472						3				20	20m Gr420	4850		20 20@150 ADDL VERT	684
2473						3			2	14	10m Gr420	2200	L	10 @300 TIES	145
2474						3			2	14	10m Gr420	900	L	10 @300 TIES	59
2475						2				16	20m Gr420	4850		16 20@150 ADDL VERT	365
2476						2				14	10m Gr420	2840	L	10 @300 TIES	62
2477						2				14	10m Gr420	900	L	10 @300 TIES	19
2478									2	98	15m Gr420	1390	H	15 @200 DWL EF	427
2479 WALL W2 (5810 mm)															
2480									2	18	15m Gr420	4850		15 @350 VERT EF	273
2481									2	14	15m Gr420	5810		15 @300 HOR EF	255
2482									6	6	15m Gr420	4850		6 15 ADDL VERT	273
2483									6	17	10m Gr420	800	L	10 @250 TIES	63
2484									2	31	15m Gr420	1390	H	15 @200 DWL EF	135

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2485 WALL W3 (37770 mm)															
2486									2	109	15m Gr420	4850		15 @350 VERT EF	1660
2487									2	14	15m Gr420	44265		15 @300 HOR EF	1945
2488									28	8	15m Gr420	4850		8 15 ADDL VERT	1705
2489									28	17	10m Gr420	1000	L	10 @250 TIES	373
2490									2	190	15m Gr420	1390	H	15 @200 DWL EF	829
2491 WALL W4 (34410 mm)															
2492									2	100	15m Gr420	4850		15 @350 VERT EF	1522
2493									2	14	15m Gr420	36000		15 @300 HOR EF	1582
2494									10	14	15m Gr420	4850		12 15 ADDL VERT	1065
2495									10	17	10m Gr420	1300	L	10 @250 TIES	173
2496									2	174	15m Gr420	1390	H	15 @200 DWL EF	759
2497 WALL W5 (26580 mm)															
2498									2	77	15m Gr420	4850		15 @350 VERT EF	1172
2499									2	14	15m Gr420	28000		15 @300 HOR EF	1231
2500									4	16	15m Gr420	4850		16 15 ADDL VERT	487
2501									4	17	10m Gr420	1600	L	10 @250 TIES	85
2502									2	133	15m Gr420	1390	H	15 @200 DWL EF	580
2503															
2504 >MECH. SLAB MECHANICAL PENTHOUSE SLAB															
2505									2	785	15m Gr420	12192		15@300 T&B EW	30052
2506										900	15m Gr420	1625	L	15 STANDEE	2296
2507										37	15m Gr420	1750	L	15@300 T ADDL	101

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2508										2	15m Gr420	4000		2 15@300 T ADDL	12
2509										6	15m Gr420	2000	L	15@300 T ADDL	19
2510										26	15m Gr420	4000		26 15 ADDL	163
2511										36	15m Gr420	5900		15@300 T ADDL	333
2512										40	20m Gr420	7000		20@300 T ADDL	659
2513										13	15m Gr420	3000		15@300 T ADDL	61
2514									2	14	15m Gr420	5000		15@900 B ADDL	219
2515										13	15m Gr420	6000		15@300 T ADDL	122
2516										45	20m Gr420	3500		20@300 T ADDL	370
2517										5	20m Gr420	5000	H	5 20@300 T ADDL	58
2518										5	20m Gr420	8500	H	5 20@300 T ADDL	100
2519										9	15m Gr420	7000	H	9 15@300 T ADDL	98
2520										6	15m Gr420	5000		6 15@300 T ADDL	47
2521										15	15m Gr420	5000		15 15@300 T ADDL	117
2522										35	15m Gr420	4500	H	15@300 T ADDL	247
2523										33	15m Gr420	7000		15@300 B ADDL	362
2524										8	15m Gr420	4750		15@300 B ADDL	59
2525										31	15m Gr420	7500		15@300 B ADDL	365
2526										15	20m Gr420	7000		15 20@300 T ADDL	247
2527										11	25m Gr420	2500	H	25@300 T ADDL	107
2528										3	20m Gr420	2000	H	3 20@300 T ADDL	14
2529										7	15m Gr420	3000	H	15@300 T ADDL	33
2530										16	15m Gr420	3500		16 15@300 T ADDL	87

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2531										34	15m Gr420	4000	H	15@300 T ADDL	213
2532										2	15m Gr420	3000		2 15 B ADDL	9
2533										40	25m Gr420	5000		25@300 T ADDL	784
2534										9	20m Gr420	5000		20@300 T ADDL	106
2535										13	15m Gr420	6000		15@300 T ADDL	122
2536										76	15m Gr420	5000		15@300 B ADDL	596
2537										7	15m Gr420	3000	H	15@600 T ADDL	33
2538										6	15m Gr420	1500	H	15@300 T ADDL	14
2539										35	15m Gr420	4500	H	15@300 T ADDL	247
2540										11	15m Gr420	3000		15@300 B ADDL	51
2541										39	15m Gr420	7500		15@300 B ADDL	459
2542										34	15m Gr420	10500		15@300 B ADDL	560
2543										18	20m Gr420	7000	H	18 20 T ADDL	296
2544										5	20m Gr420	8500	H	5 20@300 T ADDL	100
2545										5	20m Gr420	5000	H	5 20@300 T ADDL	58
2546										13	15m Gr420	5000		15@900 T ADDL	102
2547										6	15m Gr420	3000		6 15@300 T ADDL	28
2548										91	15m Gr420	6000		15@300 T ADDL	857
2549										45	15m Gr420	7000		45 15@300 T ADDL	494
2550										38	15m Gr420	1750		15@300 T ADDL	104
2551										37	15m Gr420	5900		15@300 B ADDL	342
2552										6	15m Gr420	2000	H	15@300 T ADDL	19
2553										2	15m Gr420	4000		2 15@300 T ADDL	12

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG	
2554										12	15m Gr420	5000		15@300 T ADDL	94	
2555										45	20m Gr420	7000		45 20@300 T ADDL	741	
2556										12	15m Gr420	5000		15@900 B ADDL	94	
2557										31	20m Gr420	1750	H	20@300 T ADDL	127	
2558										11	20m Gr420	5000	H	20@300 T ADDL	129	
2559										8	15m Gr420	7000		8 15@300 T ADDL	87	
2560										4	25m Gr420	5000		2 25 T ADDL	78	
2561										2	20m Gr420	3000		2 20@300 T ADDL	14	
2562										10	25m Gr420	2000	H	10 25 T ADDL	78	
2563																
2564				>MECH WALL										MECHANICAL PENTHOUSE CONCRETE WALL		
2565										2	665	15m Gr420	1970	H	15@300 DWL EF	4113
2566										665	15m Gr420	800	H	U-BAR	835	
2567										18	4	20m Gr420	12192		2 20 CONT T&B	2066
2568										18	12	15m Gr420	12192		15@300 HOR EF	4134
2569										33	4	20m Gr420	1200	H	20 COR T&B	372
2570										33	12	15m Gr420	1200	H	15 COR T&B	746
2571				ELEVATOR SHAFT WALL												
2572										2	94	15m Gr420	4850		15 @350 VERT EF	1431
2573										2	14	15m Gr420	5730		15 @300 HOR EF	251
2574										2	14	15m Gr420	4680		15 @300 HOR EF	205
2575										2	14	15m Gr420	2580		15 @300 HOR EF	113
2576										2	14	15m Gr420	8400		15 @300 HOR EF	369



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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2577						2			2	14	15m Gr420	2900		15 @300 HOR EF	254
2578									2	14	15m Gr420	5100		15 @300 HOR EF	224
2579						8			2	14	15m Gr420	2000	H	15 @300 COR EF	703
2580									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
2581									3	6	15m Gr420	4850		6 15@150 ADDL VERT	136
2582									3	14	10m Gr420	1350	L	10 @300 TIES	44
2583									2	4	15m Gr420	4850		4 15@150 ADDL VERT	60
2584									2	14	10m Gr420	1000	L	10 @300 TIES	21
2585									5	14	15m Gr420	4850		12 15@150 ADDL VERT	532
2586									5	14	10m Gr420	2260	L	10 @300 TIES	124
2587									5	14	10m Gr420	1000	L	10 @300 TIES	54
2588										20	15m Gr420	4850		20 15@150 ADDL VERT	152
2589										14	10m Gr420	2175	L	10 @300 TIES	24
2590										14	10m Gr420	1975	L	10 @300 TIES	21
2591									2	14	10m Gr420	1000	L	10 @300 TIES	21
2592										14	15m Gr420	4850		14 15@150 ADDL VERT	106
2593										14	10m Gr420	2200	L	10 @300 TIES	24
2594										14	10m Gr420	1850	L	10 @300 TIES	20
2595										14	10m Gr420	900	L	10 @300 TIES	9
2596									2	163	15m Gr420	1390	H	15 @200 DWL EF	711
2597	STAIR CORE WALL														
2598									2	56	15m Gr420	4850		15 @350 VERT EF	852
2599									2	14	15m Gr420	5920		15 @300 HOR EF	260

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\*\* ESTIMATING BAR LIST \*\*

LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2600						2			2	14	15m Gr420	5100		15 @300 HOR EF	448
2601									2	14	15m Gr420	2910		15 @300 HOR EF	127
2602						4			2	14	15m Gr420	2000	H	15 @300 COR EF	351
2603						3				20	20m Gr420	4850		20 20@150 ADDL VERT	684
2604						3			2	14	10m Gr420	2200	L	10 @300 TIES	145
2605						3			2	14	10m Gr420	900	L	10 @300 TIES	59
2606						2				16	20m Gr420	4850		16 20@150 ADDL VERT	365
2607						2				14	10m Gr420	2840	L	10 @300 TIES	62
2608						2				14	10m Gr420	900	L	10 @300 TIES	19
2609									2	98	15m Gr420	1390	H	15 @200 DWL EF	427
2610 REFER SEC 1/S410															
2611										66	10m Gr420	410		10@1000 CMU VERT	21
2612 ELEVATOR TOP SLAB															
2613									2	12	15m Gr420	12192		15#450 EW T&B	459
2614										20	10m Gr420	1620	L	10 STANDEE	25
2615 >GF CMU GROUND FLOOR CMU WALL															
2616										70	15m Gr420	1045	H	15 @400 CMU DWL	114
2617										70	15m Gr420	3760		15 @400 VERT	413
2618									6	2	15m Gr420	6000		2-15 BB	112
2619									15	2	15m Gr420	1300	H	2-15 BB COR	61
2620															
2621 >3RD FL CMU 3rd FLOOR CMU															
2622										180	15m Gr420	1110	H	15 @800 CMU DWL	313

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\*\* ESTIMATING BAR LIST \*\*

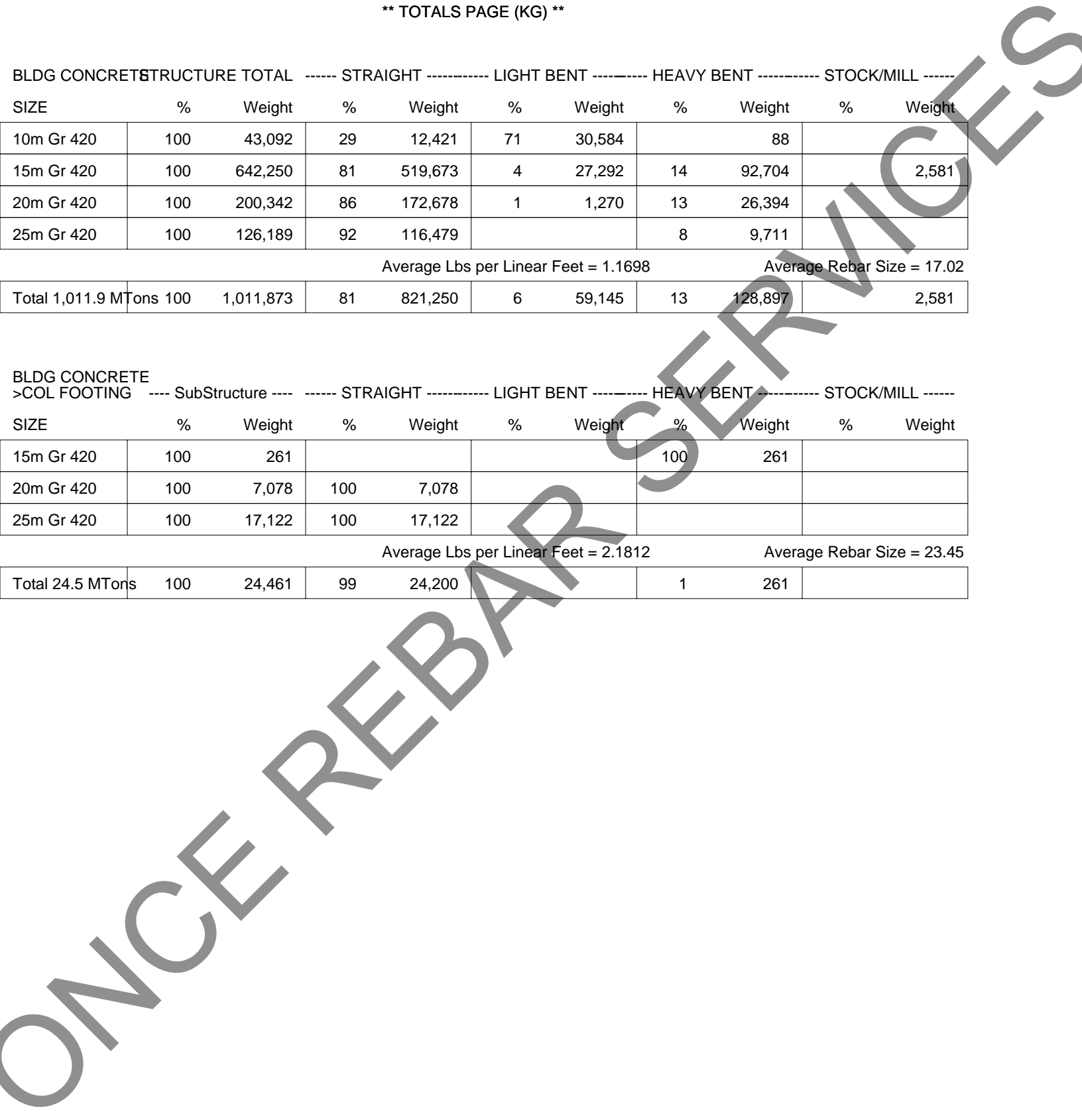
LINE	LA	EP	A/D	STRUCTURE	MULT	REQ	CODE	+	X	QTY	SZ/GR	LENGTH	B	COMMENT	LINE KG
2623										180	15m Gr420	3860		15 @800 VERT	1090
2624									28	2	15m Gr420	6000		2-15 BB	527
2625									5	2	15m Gr420	1300	H	2-15 BB COR	20
2626															
2627				>4TH FL CMU										4th FLOOR CMU	
2628										180	15m Gr420	1110	H	15 @800 CMU DWL	313
2629										180	15m Gr420	3860		15 @800 VERT	1090
2630									28	2	15m Gr420	6000		2-15 BB	527
2631									5	2	15m Gr420	1300	H	2-15 BB COR	20
2632															
2633				>5TH FL CMU										5th FLOOR CMU	
2634										180	15m Gr420	1110	H	15 @800 CMU DWL	313
2635										180	15m Gr420	3860		15 @800 VERT	1090
2636									28	2	15m Gr420	6000		2-15 BB	527
2637									5	2	15m Gr420	1300	H	2-15 BB COR	20
2638															
2639				>6TH FL CMU										6th FLOOR CMU	
2640										180	15m Gr420	1110	H	15 @800 CMU DWL	313
2641										180	15m Gr420	3860		15 @800 VERT	1090
2642									28	2	15m Gr420	6000		2-15 BB	527
2643									5	2	15m Gr420	1300	H	2-15 BB COR	20

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**\*\* TOTALS PAGE (KG) \*\***

BLDG CONCRETE STRUCTURE TOTAL			STRAIGHT		LIGHT BENT		HEAVY BENT		STOCK/MILL	
SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	43,092	29	12,421	71	30,584		88		
15m Gr 420	100	642,250	81	519,673	4	27,292	14	92,704		2,581
20m Gr 420	100	200,342	86	172,678	1	1,270	13	26,394		
25m Gr 420	100	126,189	92	116,479			8	9,711		
Average Lbs per Linear Feet = 1.1698					Average Rebar Size = 17.02					
Total 1,011.9 MTons	100	1,011,873	81	821,250	6	59,145	13	128,897		2,581

BLDG CONCRETE >COL FOOTING			STRAIGHT		LIGHT BENT		HEAVY BENT		STOCK/MILL	
SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
15m Gr 420	100	261					100	261		
20m Gr 420	100	7,078	100	7,078						
25m Gr 420	100	17,122	100	17,122						
Average Lbs per Linear Feet = 2.1812					Average Rebar Size = 23.45					
Total 24.5 MTons	100	24,461	99	24,200			1	261		



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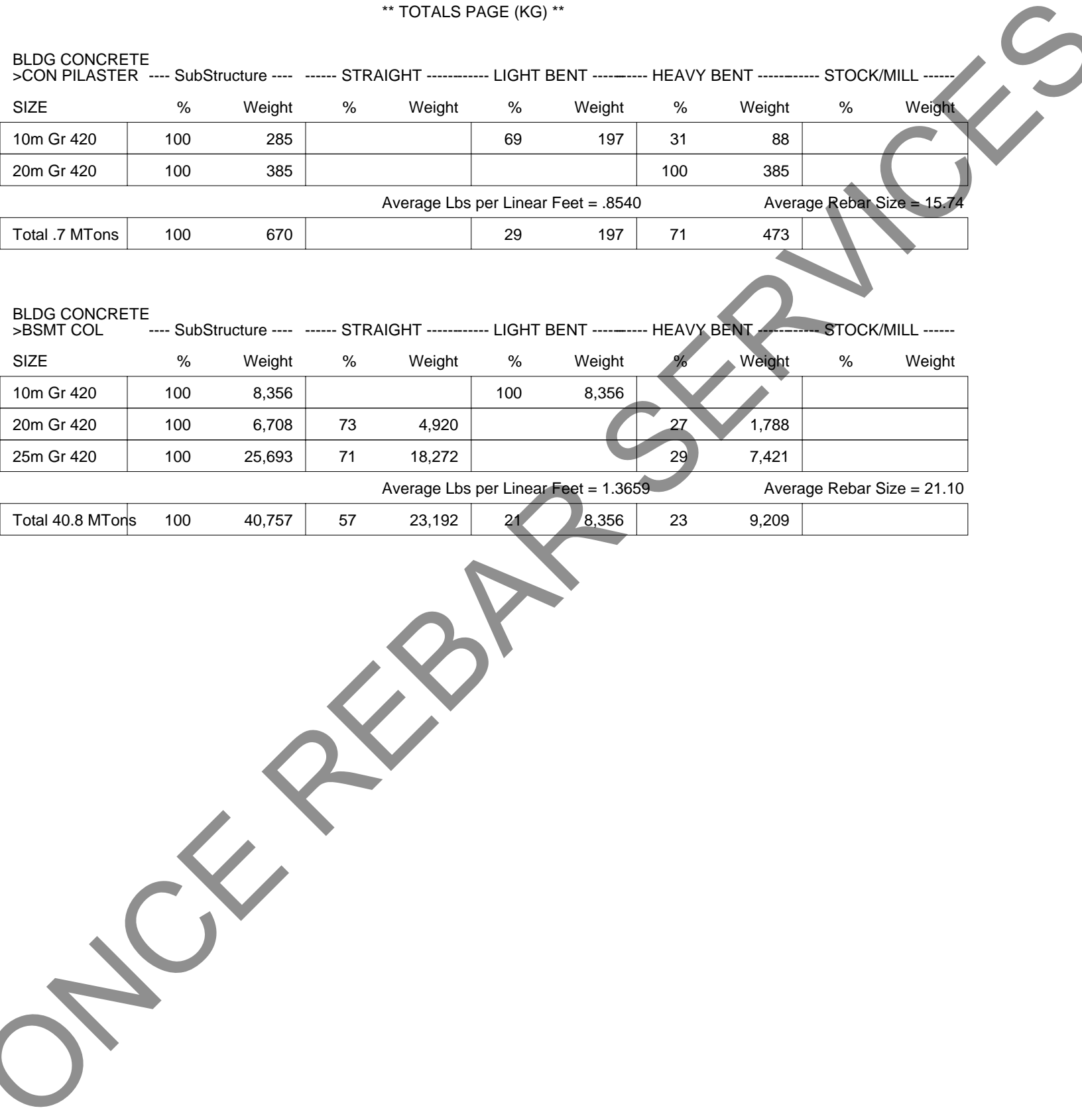
\*\* TOTALS PAGE (KG) \*\*

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

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	285			69	197	31	88		
20m Gr 420	100	385					100	385		
Average Lbs per Linear Feet = .8540					Average Rebar Size = 15.74					
Total .7 MTons	100	670			29	197	71	473		

BLDG CONCRETE  
 >BSMT COL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	8,356			100	8,356				
20m Gr 420	100	6,708	73	4,920			27	1,788		
25m Gr 420	100	25,693	71	18,272			29	7,421		
Average Lbs per Linear Feet = 1.3659					Average Rebar Size = 21.10					
Total 40.8 MTons	100	40,757	57	23,192	21	8,356	23	9,209		



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\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >MAT SLAB

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
15m Gr 420	100	2,924					100	2,924		
20m Gr 420	100	3,279	75	2,468			25	811		
25m Gr 420	100	55,378	100	55,378						
Average Lbs per Linear Feet = 2.3827					Average Rebar Size = 24.26					
Total 61.6 MTons	100	61,581	94	57,846			6	3,734		

BLDG CONCRETE  
 >BSMT WALL

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	3,480	19	646	81	2,834				
15m Gr 420	100	70,259	69	48,441	3	1,886	28	19,933		
20m Gr 420	100	5,150	71	3,671			29	1,478		
25m Gr 420	100	2,140	71	1,530			29	611		
Average Lbs per Linear Feet = 1.0487					Average Rebar Size = 15.37					
Total 81.1 MTons	100	81,029	67	54,288	6	4,720	27	22,021		

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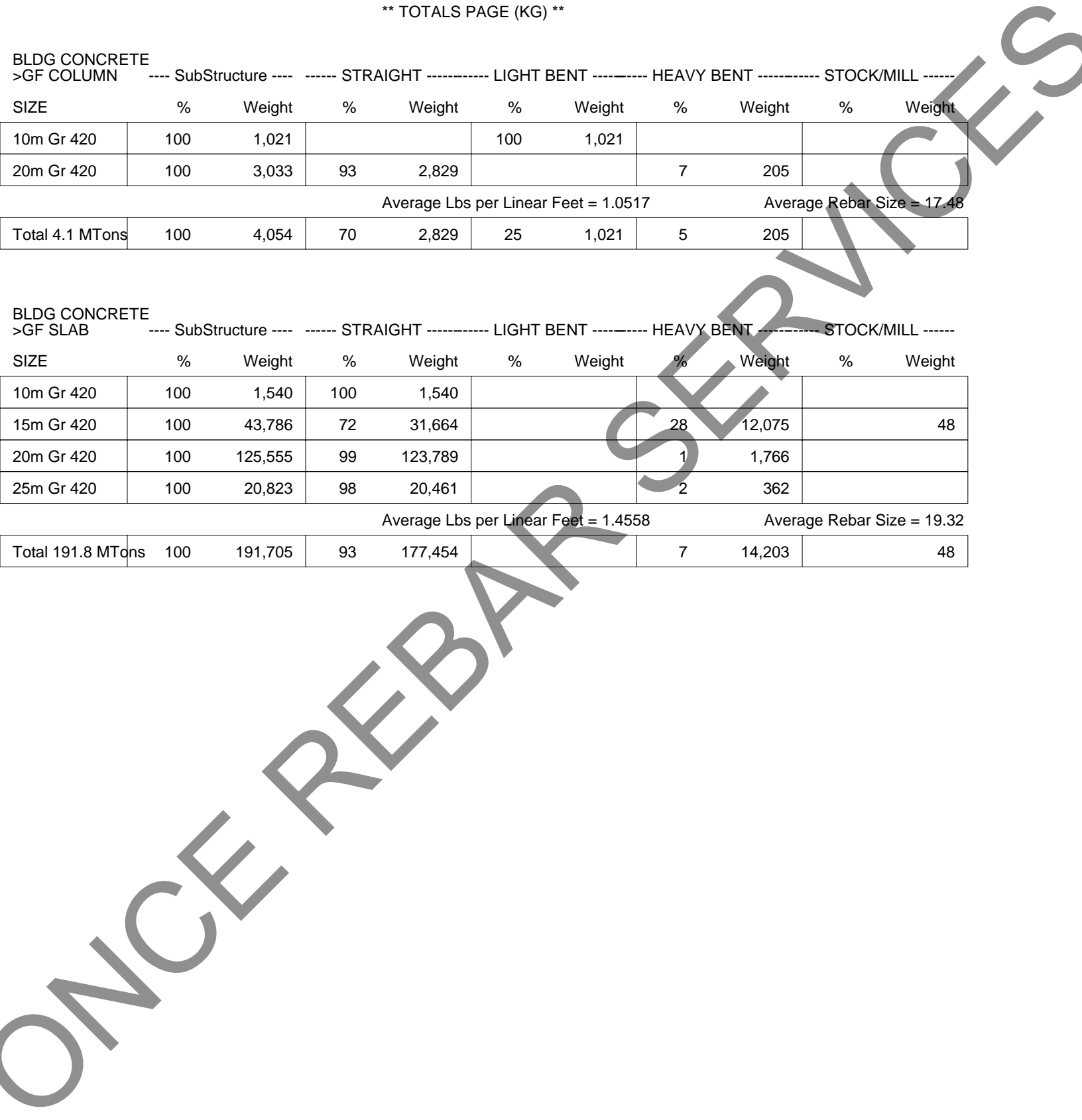
\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >GF COLUMN

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,021			100	1,021				
20m Gr 420	100	3,033	93	2,829			7	205		
Average Lbs per Linear Feet = 1.0517					Average Rebar Size = 17.48					
Total 4.1 MTons	100	4,054	70	2,829	25	1,021	5	205		

BLDG CONCRETE  
 >GF SLAB

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,540	100	1,540						
15m Gr 420	100	43,786	72	31,664			28	12,075		48
20m Gr 420	100	125,555	99	123,789			1	1,766		
25m Gr 420	100	20,823	98	20,461			2	362		
Average Lbs per Linear Feet = 1.4558					Average Rebar Size = 19.32					
Total 191.8 MTons	100	191,705	93	177,454			7	14,203		48



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\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >GF BEAM

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	579			100	579				
15m Gr 420	100	2,326	39	904			61	1,421		
20m Gr 420	100	2,147					100	2,147		
25m Gr 420	100	1,130					100	1,130		
Average Lbs per Linear Feet = 1.2149					Average Rebar Size = 18.10					
Total 6.2 MTons	100	6,182	15	904	9	579	76	4,699		

BLDG CONCRETE  
 >GF CONC WALL

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	2,068			100	2,068				
15m Gr 420	100	26,592	82	21,693			11	3,013	7	1,886
20m Gr 420	100	1,928	100	1,928						
25m Gr 420	100	2,192	100	2,192						
Average Lbs per Linear Feet = 1.0513					Average Rebar Size = 15.65					
Total 32.8 MTons	100	32,779	79	25,813	6	2,068	9	3,013	6	1,886



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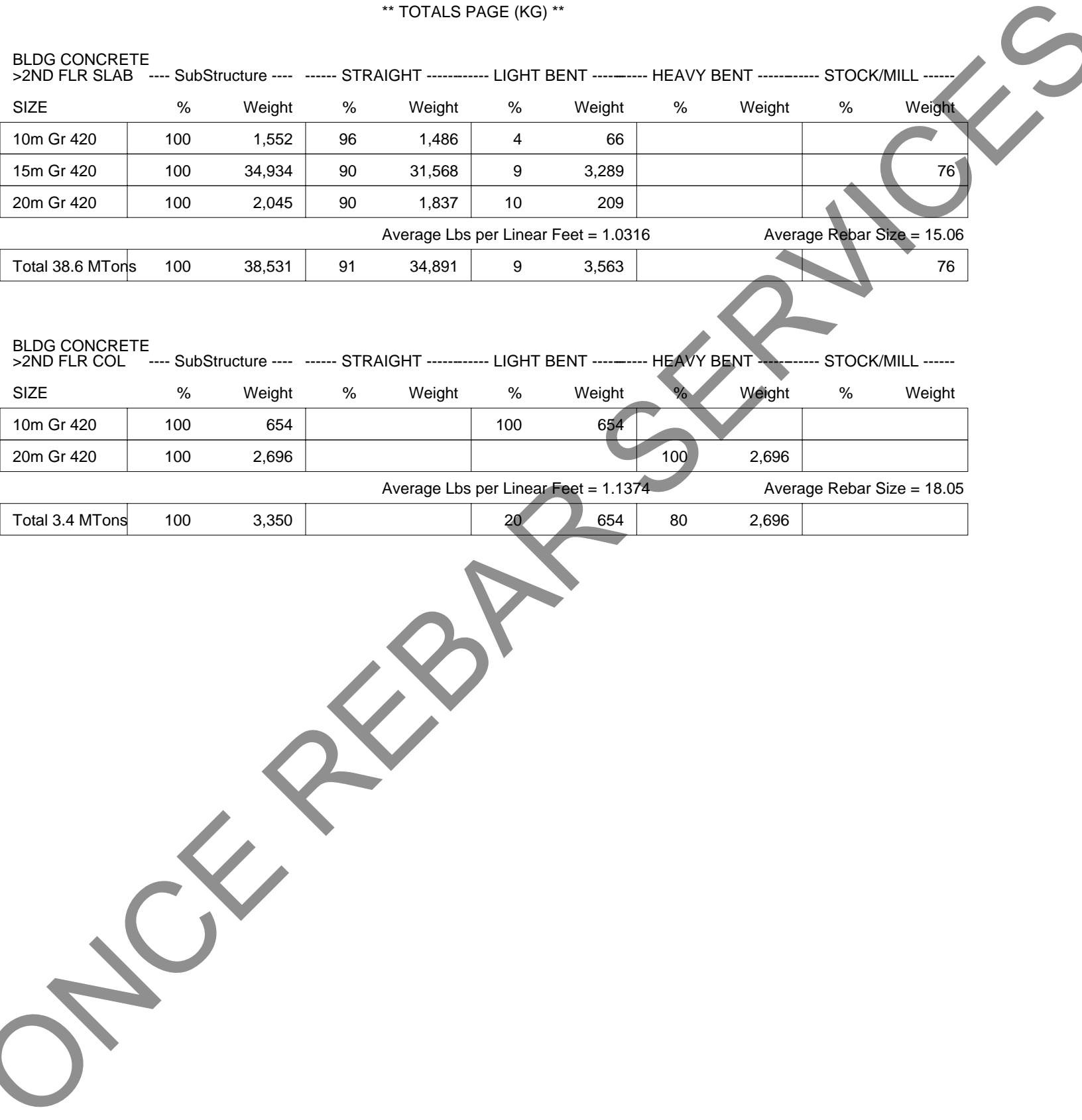
\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >2ND FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,552	96	1,486	4	66				
15m Gr 420	100	34,934	90	31,568	9	3,289				76
20m Gr 420	100	2,045	90	1,837	10	209				
Average Lbs per Linear Feet = 1.0316					Average Rebar Size = 15.06					
Total 38.6 MTons	100	38,531	91	34,891	9	3,563				76

BLDG CONCRETE  
 >2ND FLR COL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	654			100	654				
20m Gr 420	100	2,696					100	2,696		
Average Lbs per Linear Feet = 1.1374					Average Rebar Size = 18.05					
Total 3.4 MTons	100	3,350			20	654	80	2,696		



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\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >2ND FLR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,582			100	1,582				
15m Gr 420	100	25,663	77	19,665			23	5,998		
20m Gr 420	100	1,863	100	1,863						
25m Gr 420	100	661	100	661						

Average Lbs per Linear Feet = 1.0352

Average Rebar Size = 15.27

Total 29.8 MTons	100	29,769	75	22,189	5	1,582	20	5,998		
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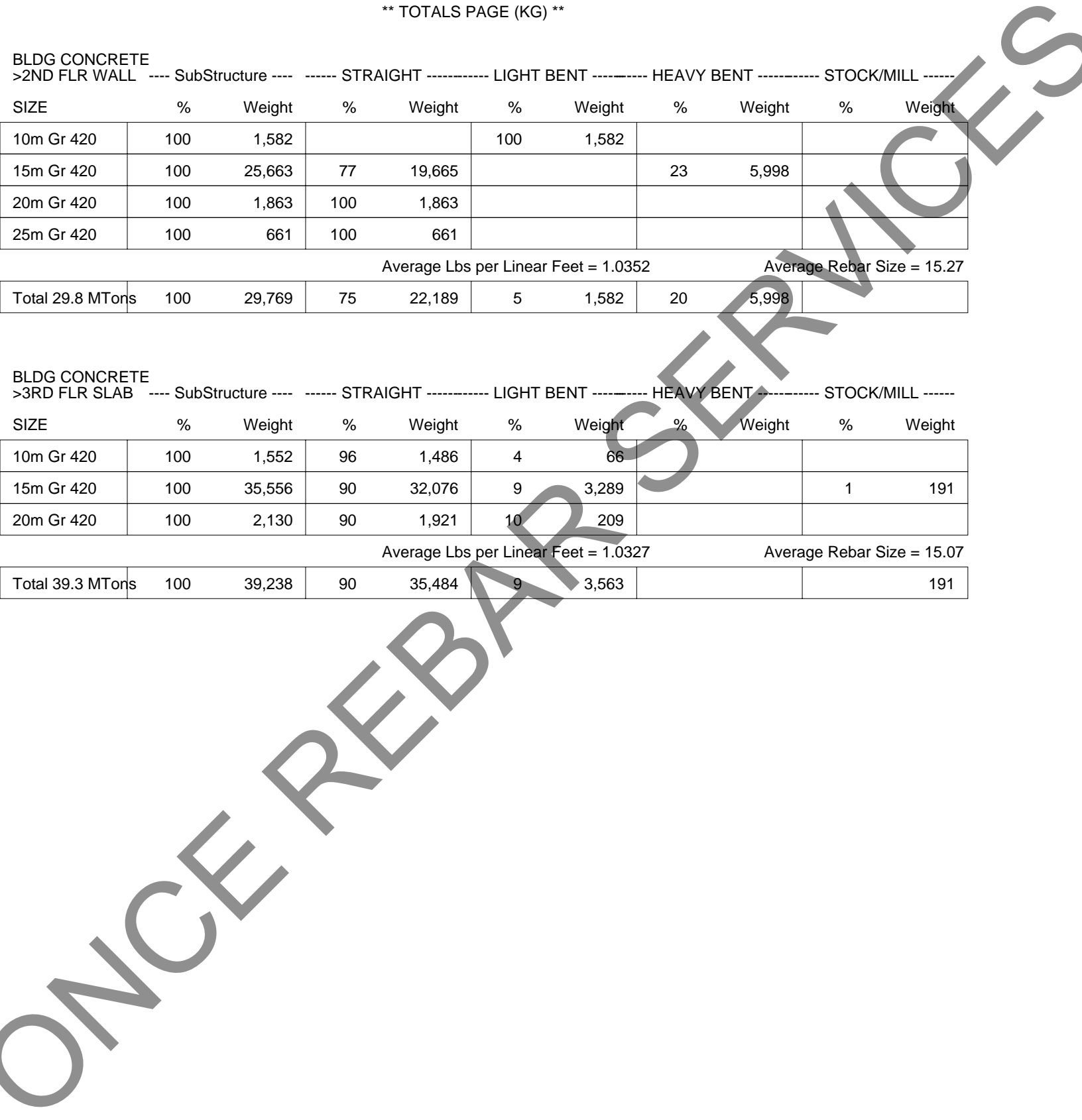
BLDG CONCRETE  
 >3RD FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,552	96	1,486	4	66				
15m Gr 420	100	35,556	90	32,076	9	3,289			1	191
20m Gr 420	100	2,130	90	1,921	10	209				

Average Lbs per Linear Feet = 1.0327

Average Rebar Size = 15.07

Total 39.3 MTons	100	39,238	90	35,484	9	3,563				191
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Bid Date 04/08/16

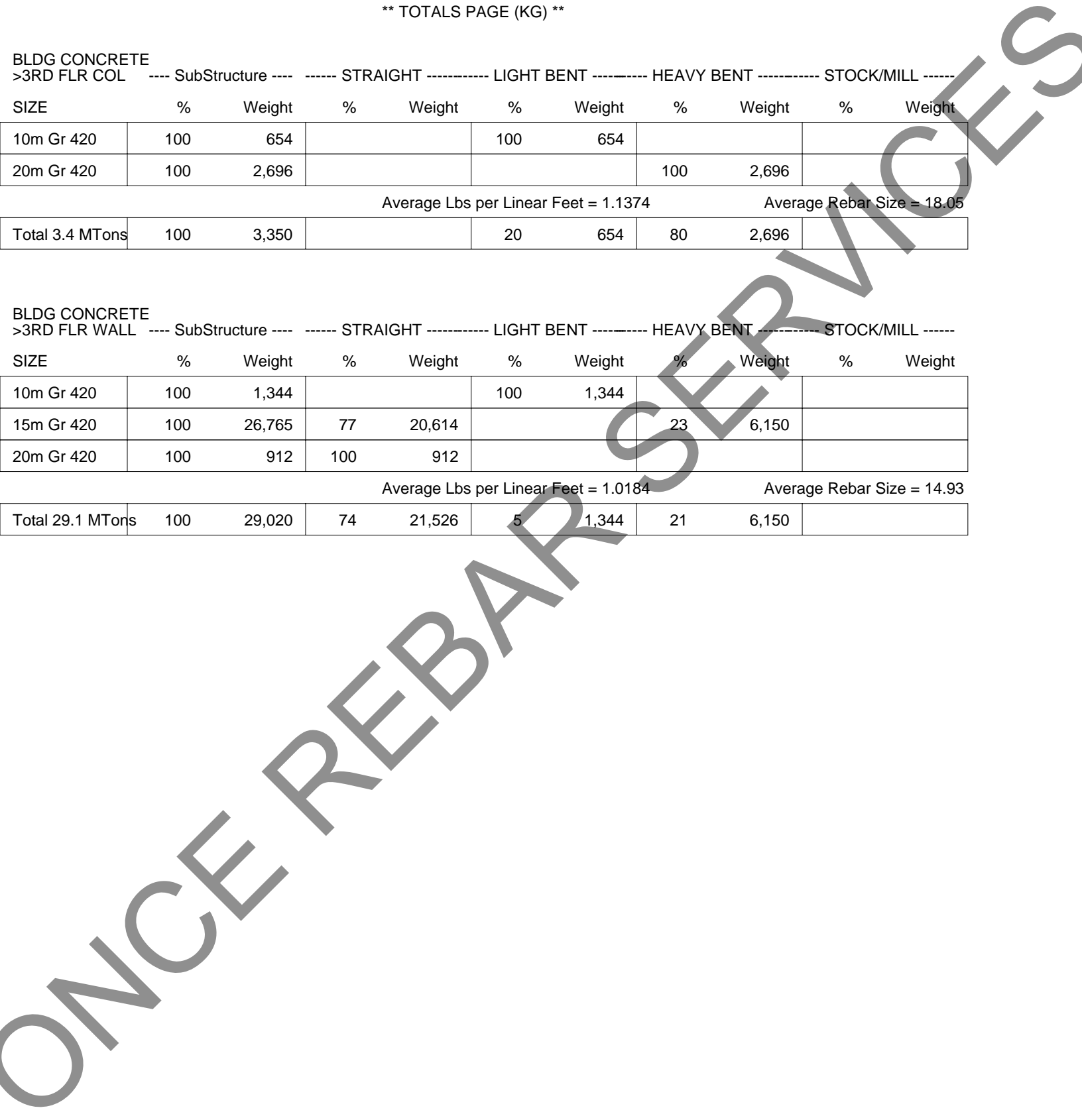
\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >3RD FLR COL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	654			100	654				
20m Gr 420	100	2,696					100	2,696		
Average Lbs per Linear Feet = 1.1374					Average Rebar Size = 18.05					
Total 3.4 MTons	100	3,350			20	654	80	2,696		

BLDG CONCRETE  
 >3RD FLR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,344			100	1,344				
15m Gr 420	100	26,765	77	20,614			23	6,150		
20m Gr 420	100	912	100	912						
Average Lbs per Linear Feet = 1.0184					Average Rebar Size = 14.93					
Total 29.1 MTons	100	29,020	74	21,526	5	1,344	21	6,150		



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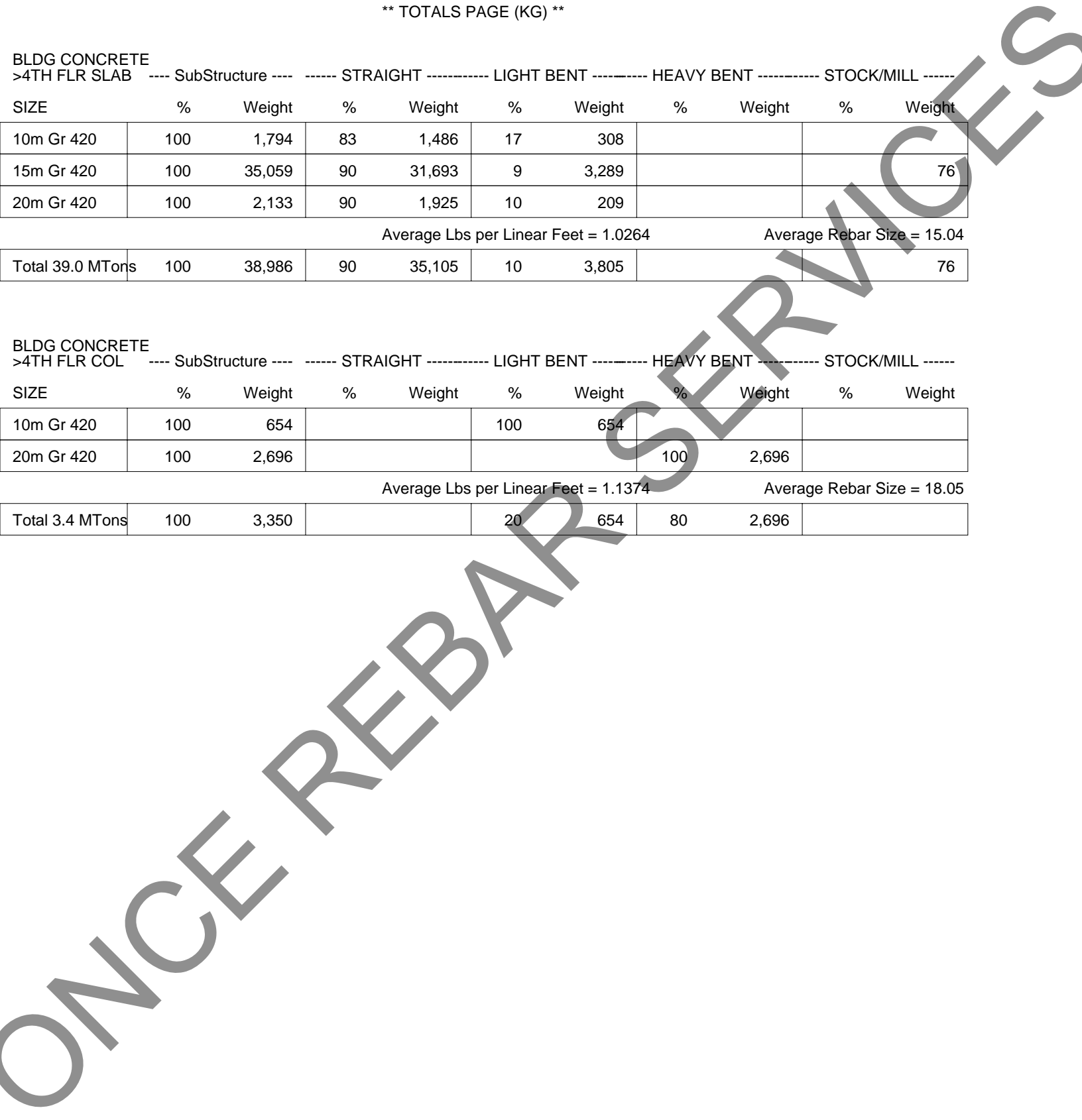
\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >4TH FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,794	83	1,486	17	308				
15m Gr 420	100	35,059	90	31,693	9	3,289				76
20m Gr 420	100	2,133	90	1,925	10	209				
Average Lbs per Linear Feet = 1.0264					Average Rebar Size = 15.04					
Total 39.0 MTons	100	38,986	90	35,105	10	3,805				76

BLDG CONCRETE  
 >4TH FLR COL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	654			100	654				
20m Gr 420	100	2,696					100	2,696		
Average Lbs per Linear Feet = 1.1374					Average Rebar Size = 18.05					
Total 3.4 MTons	100	3,350			20	654	80	2,696		



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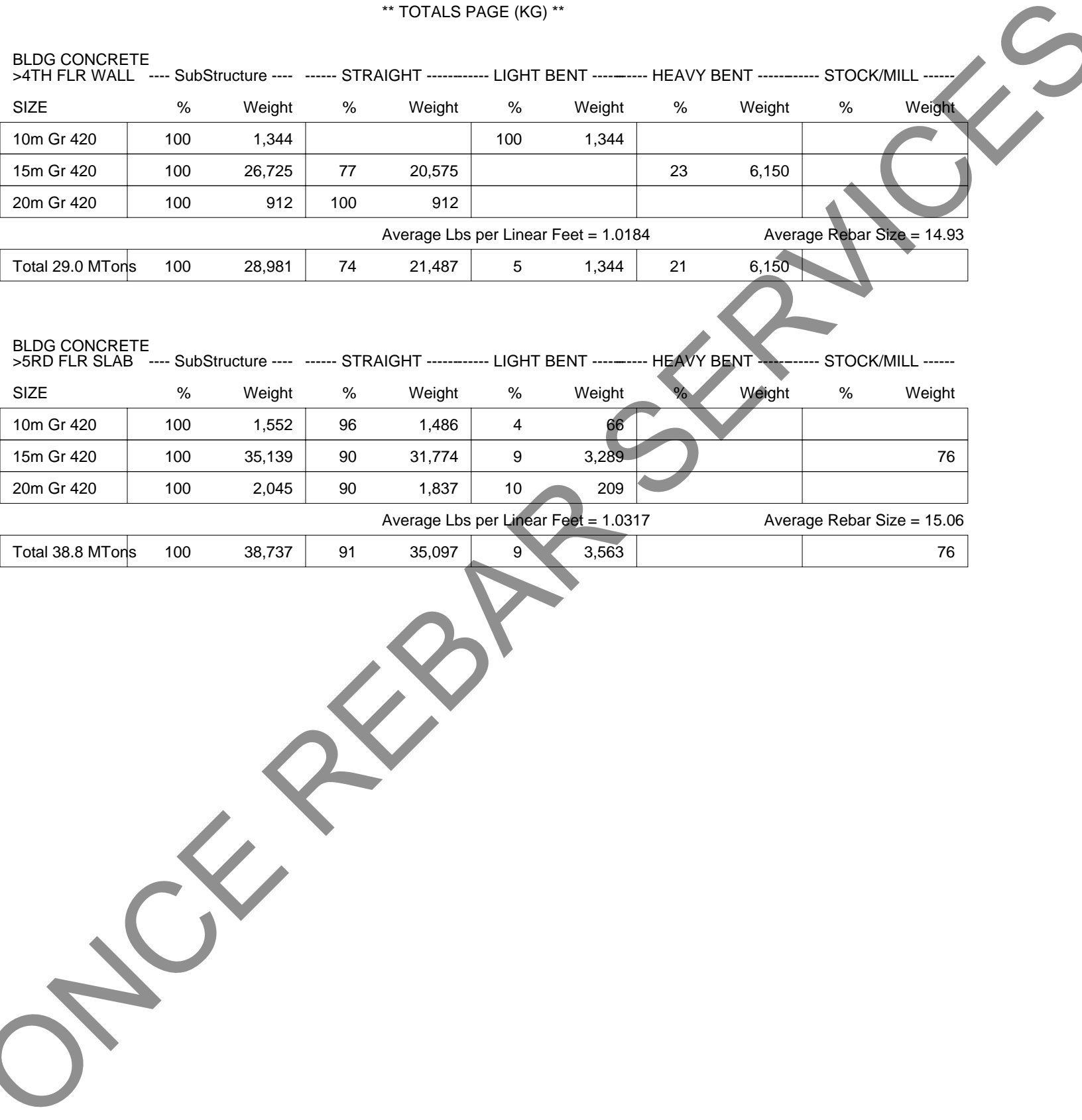
\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >4TH FLR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,344			100	1,344				
15m Gr 420	100	26,725	77	20,575			23	6,150		
20m Gr 420	100	912	100	912						
Average Lbs per Linear Feet = 1.0184					Average Rebar Size = 14.93					
Total 29.0 MTons	100	28,981	74	21,487	5	1,344	21	6,150		

BLDG CONCRETE  
 >5RD FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,552	96	1,486	4	66				
15m Gr 420	100	35,139	90	31,774	9	3,289				76
20m Gr 420	100	2,045	90	1,837	10	209				
Average Lbs per Linear Feet = 1.0317					Average Rebar Size = 15.06					
Total 38.8 MTons	100	38,737	91	35,097	9	3,563				76



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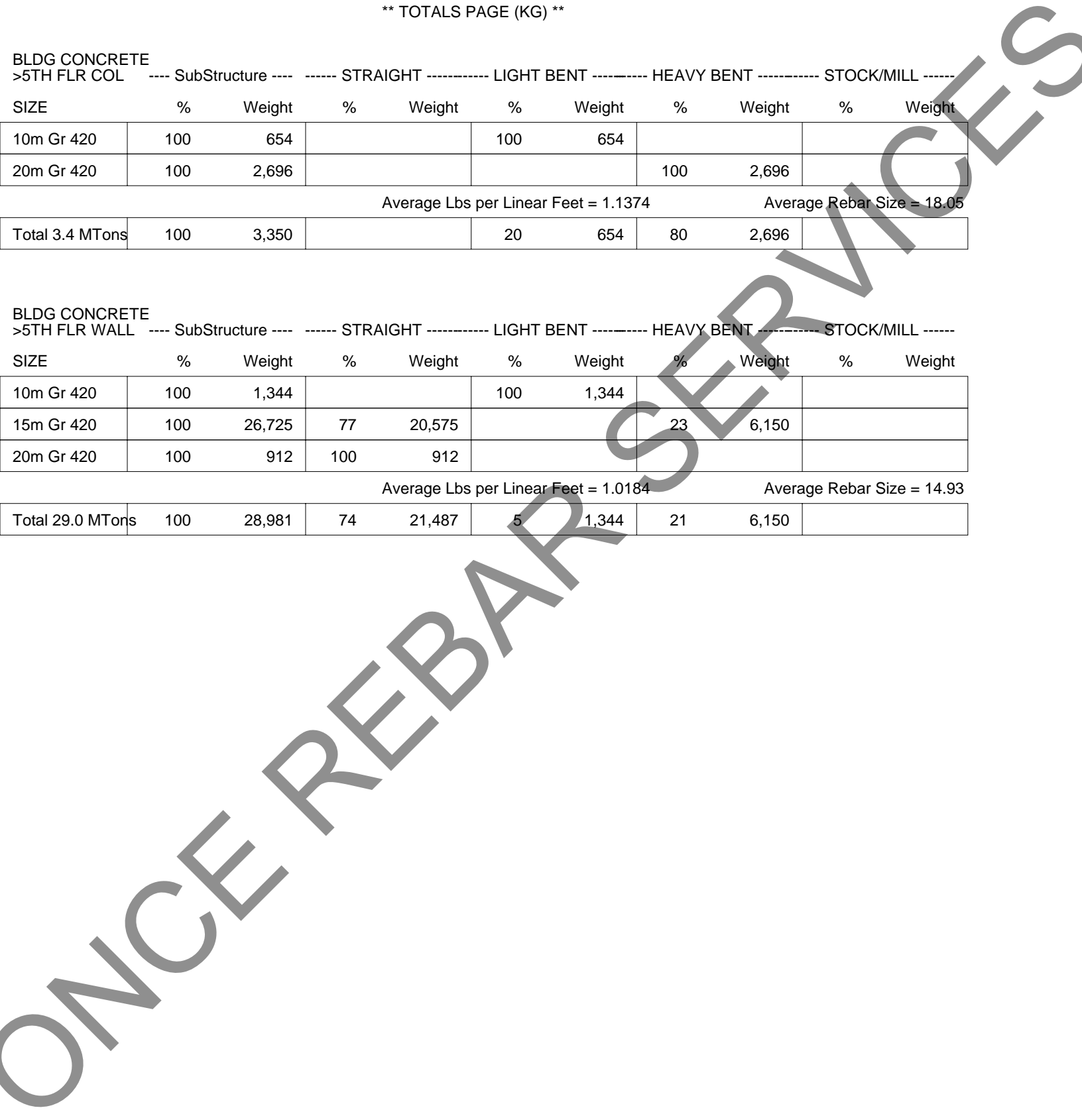
\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >5TH FLR COL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	654			100	654				
20m Gr 420	100	2,696					100	2,696		
Average Lbs per Linear Feet = 1.1374					Average Rebar Size = 18.05					
Total 3.4 MTons	100	3,350			20	654	80	2,696		

BLDG CONCRETE  
 >5TH FLR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,344			100	1,344				
15m Gr 420	100	26,725	77	20,575			23	6,150		
20m Gr 420	100	912	100	912						
Average Lbs per Linear Feet = 1.0184					Average Rebar Size = 14.93					
Total 29.0 MTons	100	28,981	74	21,487	5	1,344	21	6,150		



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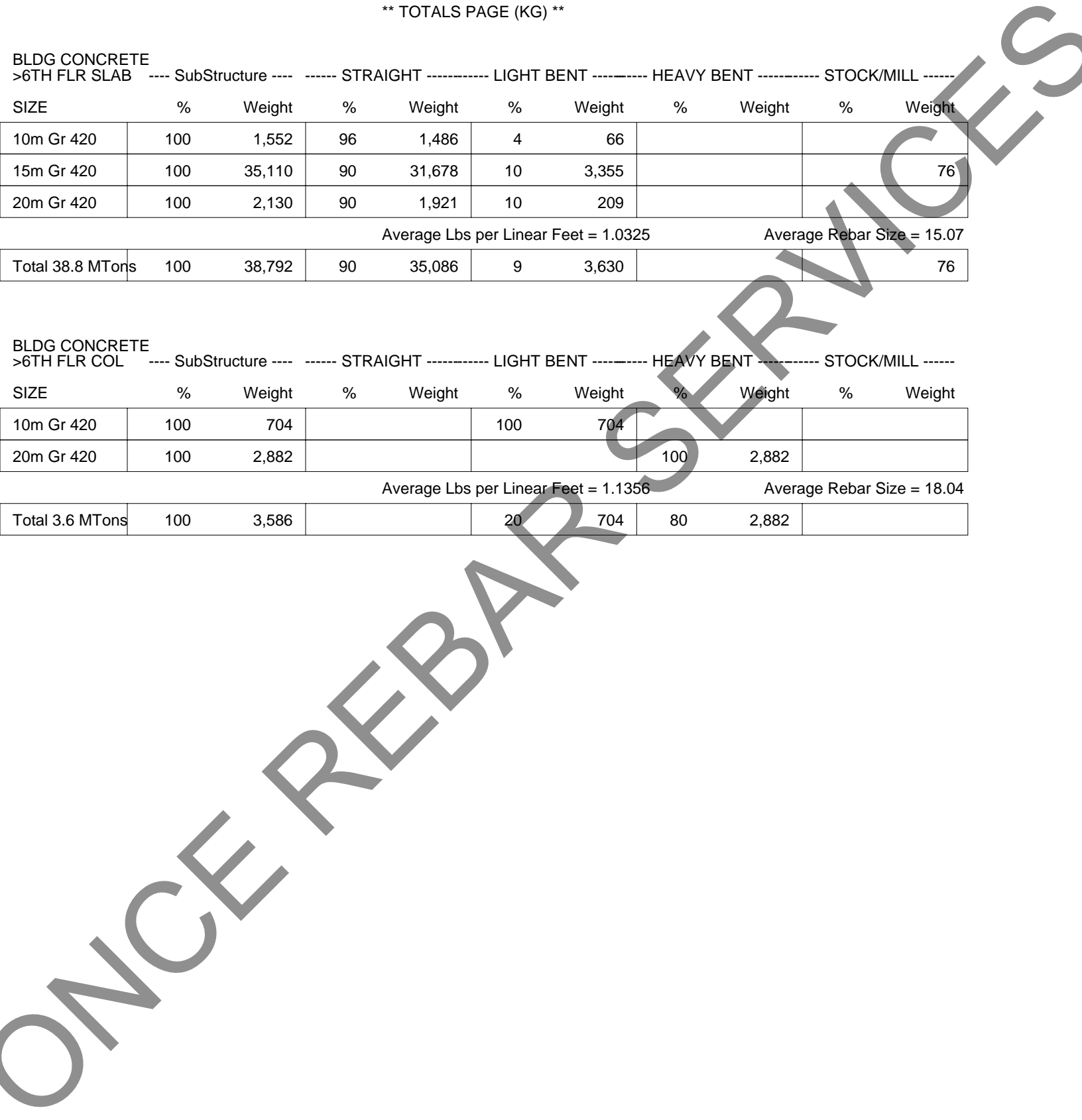
\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >6TH FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,552	96	1,486	4	66				
15m Gr 420	100	35,110	90	31,678	10	3,355				76
20m Gr 420	100	2,130	90	1,921	10	209				
Average Lbs per Linear Feet = 1.0325					Average Rebar Size = 15.07					
Total 38.8 MTons	100	38,792	90	35,086	9	3,630				76

BLDG CONCRETE  
 >6TH FLR COL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	704			100	704				
20m Gr 420	100	2,882					100	2,882		
Average Lbs per Linear Feet = 1.1356					Average Rebar Size = 18.04					
Total 3.6 MTons	100	3,586			20	704	80	2,882		



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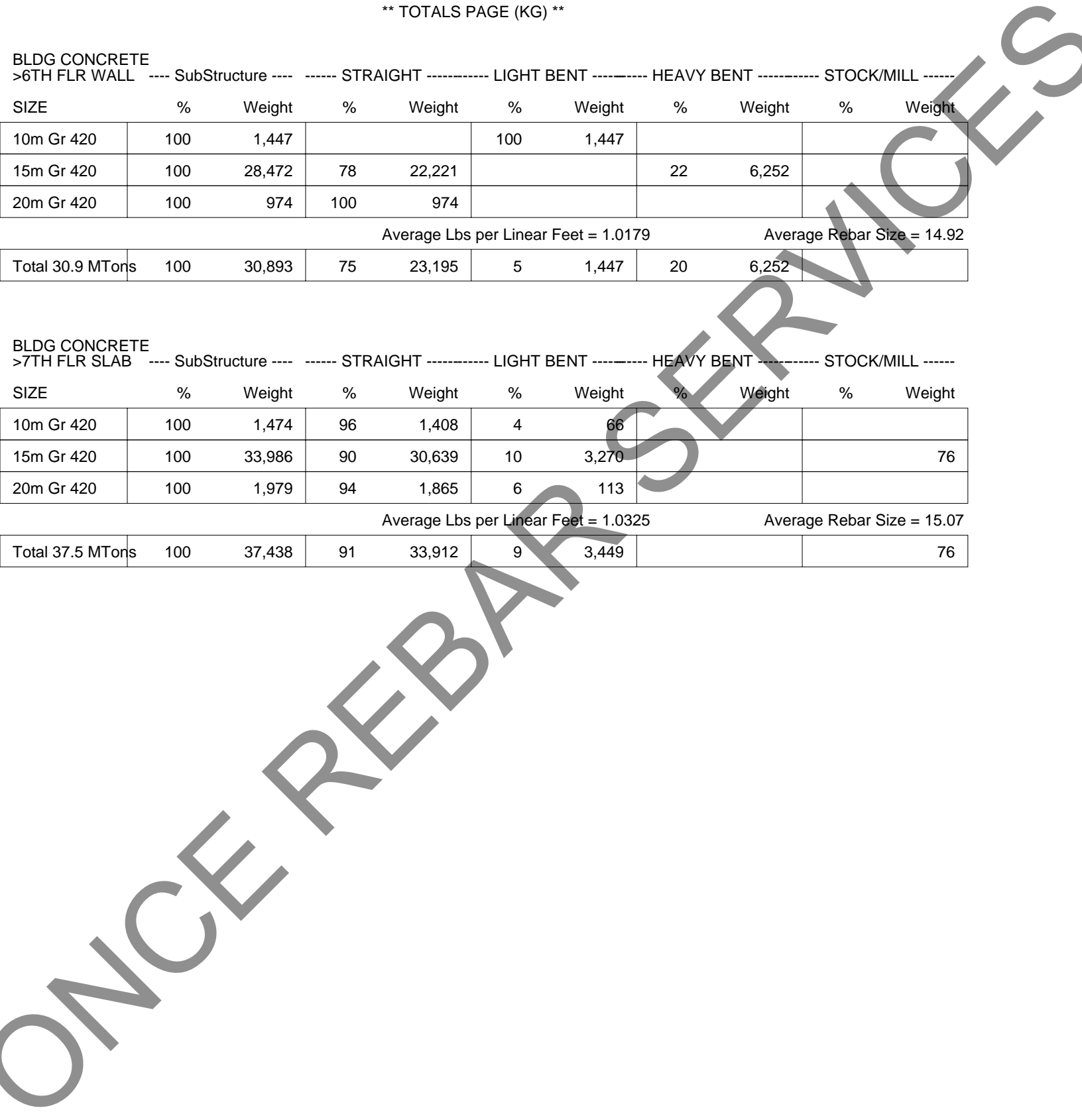
\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >6TH FLR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,447			100	1,447				
15m Gr 420	100	28,472	78	22,221			22	6,252		
20m Gr 420	100	974	100	974						
Average Lbs per Linear Feet = 1.0179					Average Rebar Size = 14.92					
Total 30.9 MTons	100	30,893	75	23,195	5	1,447	20	6,252		

BLDG CONCRETE  
 >7TH FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,474	96	1,408	4	66				
15m Gr 420	100	33,986	90	30,639	10	3,270				76
20m Gr 420	100	1,979	94	1,865	6	113				
Average Lbs per Linear Feet = 1.0325					Average Rebar Size = 15.07					
Total 37.5 MTons	100	37,438	91	33,912	9	3,449				76





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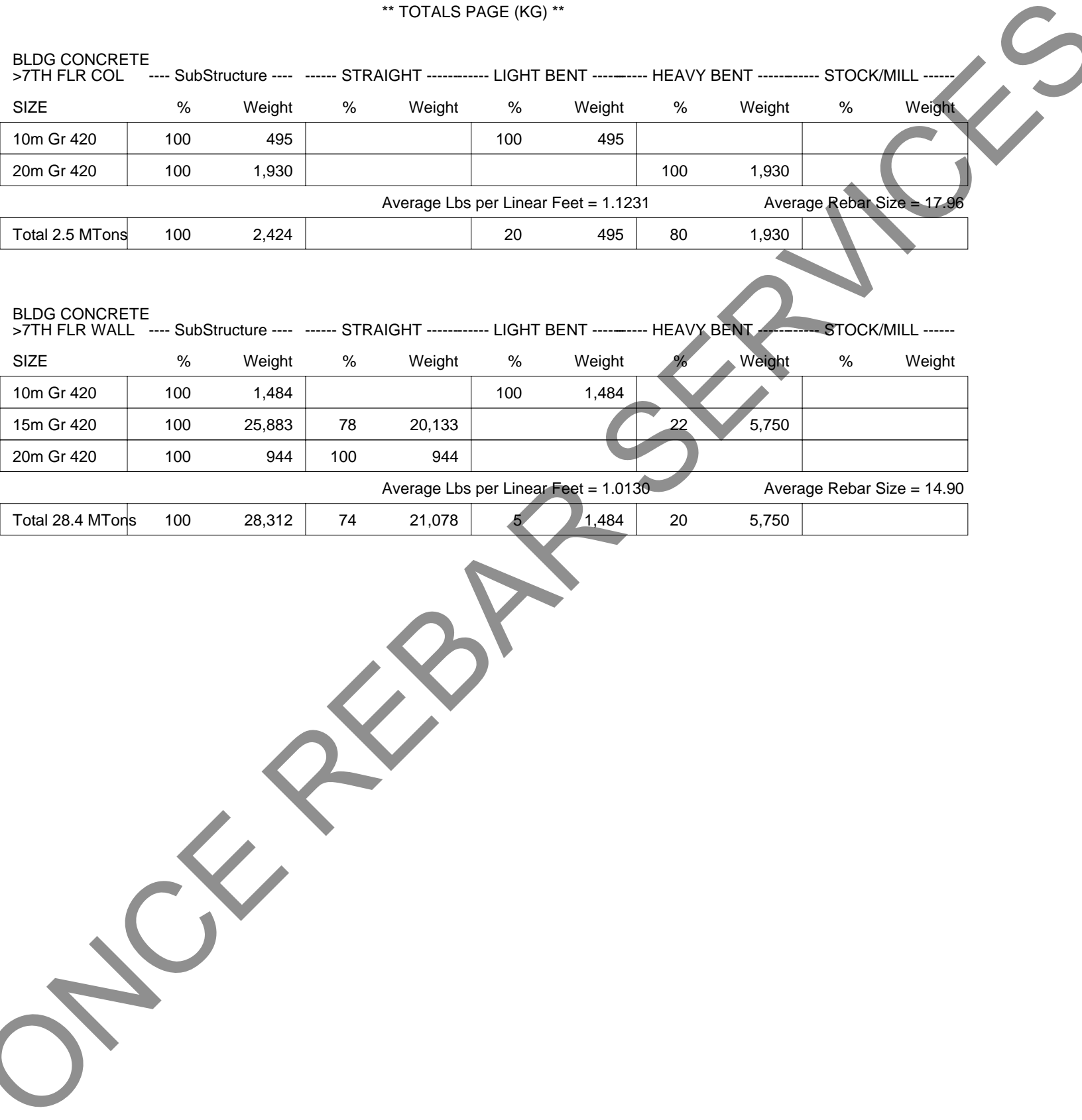
\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >7TH FLR COL

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	495			100	495				
20m Gr 420	100	1,930					100	1,930		
Average Lbs per Linear Feet = 1.1231					Average Rebar Size = 17.96					
Total 2.5 MTons	100	2,424			20	495	80	1,930		

BLDG CONCRETE  
 >7TH FLR WALL

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,484			100	1,484				
15m Gr 420	100	25,883	78	20,133			22	5,750		
20m Gr 420	100	944	100	944						
Average Lbs per Linear Feet = 1.0130					Average Rebar Size = 14.90					
Total 28.4 MTons	100	28,312	74	21,078	5	1,484	20	5,750		



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\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >8TH FLR SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,439	95	1,374	5	66				
15m Gr 420	100	32,895	90	29,611	10	3,208				76
20m Gr 420	100	1,979	94	1,865	6	113				
Average Lbs per Linear Feet = 1.0327					Average Rebar Size = 15.07					
Total 36.4 MTons	100	36,312	90	32,849	9	3,387				76

BLDG CONCRETE  
 >8TH FLR COL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	288			100	288				
20m Gr 420	100	959					100	959		
Average Lbs per Linear Feet = 1.0815					Average Rebar Size = 17.69					
Total 1.3 MTons	100	1,248			23	288	77	959		

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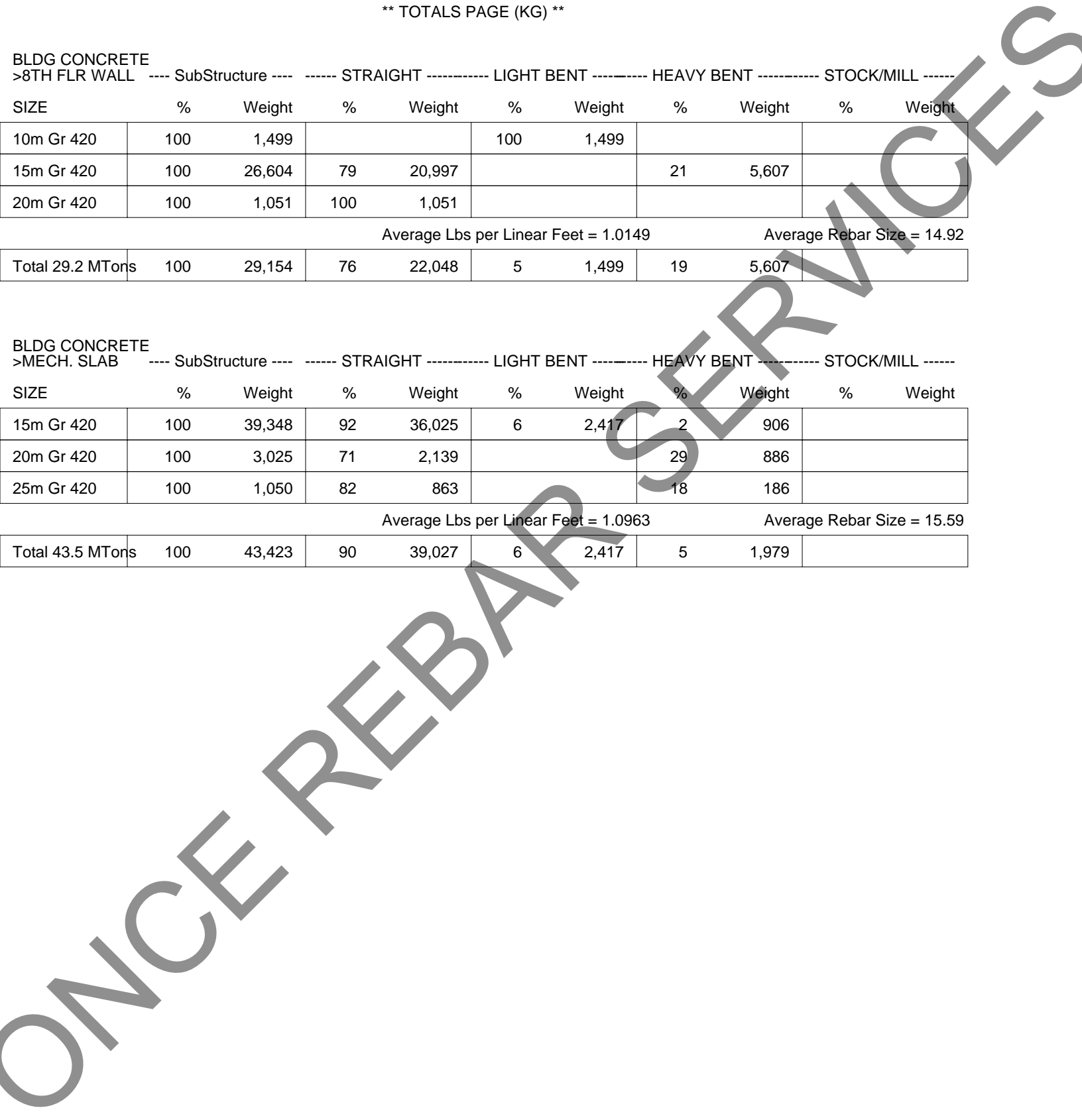
\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >8TH FLR WALL ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	1,499			100	1,499				
15m Gr 420	100	26,604	79	20,997			21	5,607		
20m Gr 420	100	1,051	100	1,051						
Average Lbs per Linear Feet = 1.0149					Average Rebar Size = 14.92					
Total 29.2 MTons	100	29,154	76	22,048	5	1,499	19	5,607		

BLDG CONCRETE  
 >MECH. SLAB ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
15m Gr 420	100	39,348	92	36,025	6	2,417	2	906		
20m Gr 420	100	3,025	71	2,139			29	886		
25m Gr 420	100	1,050	82	863			18	186		
Average Lbs per Linear Feet = 1.0963					Average Rebar Size = 15.59					
Total 43.5 MTons	100	43,423	90	39,027	6	2,417	5	1,979		



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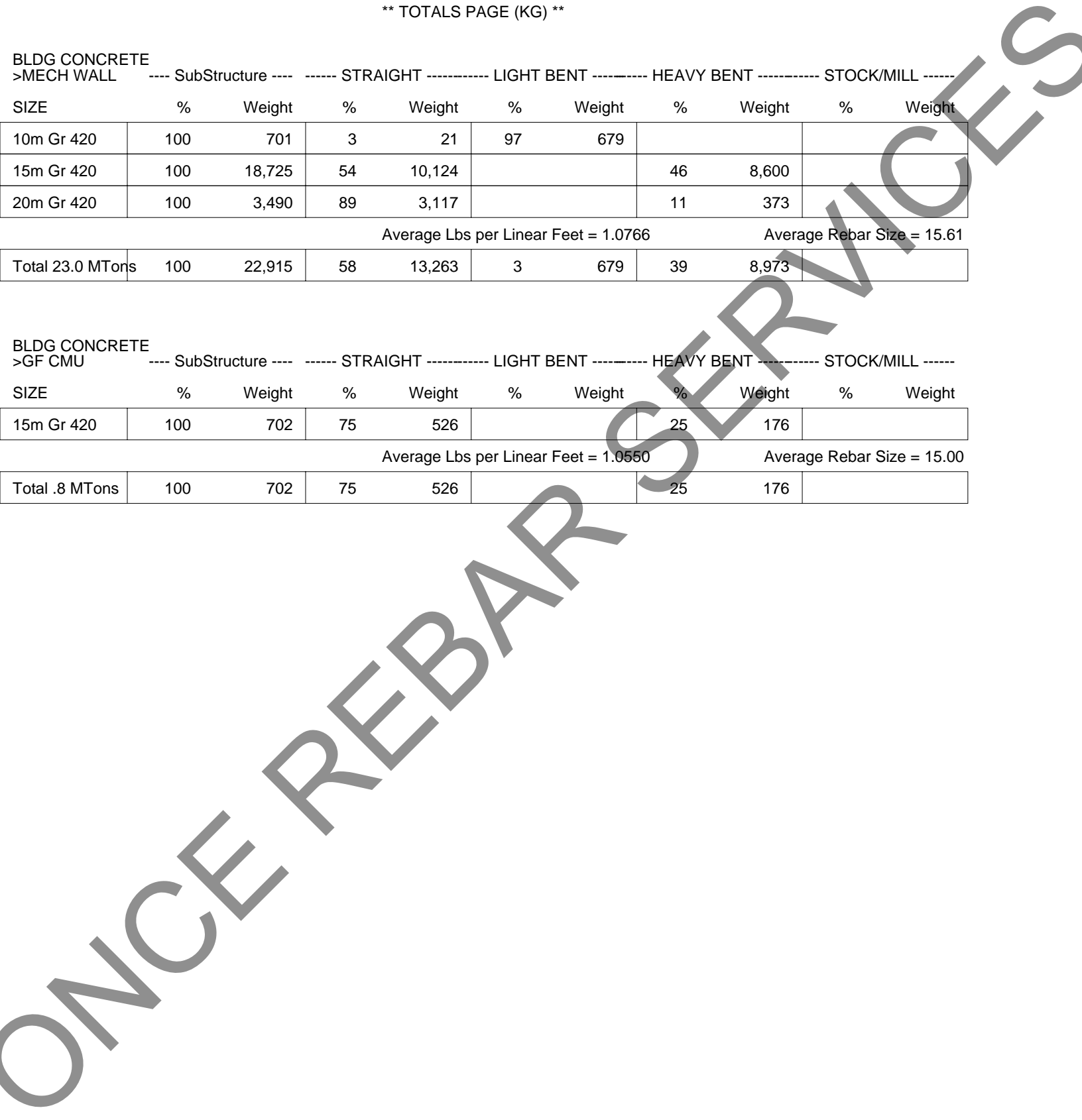
\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >MECH WALL

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	701	3	21	97	679				
15m Gr 420	100	18,725	54	10,124			46	8,600		
20m Gr 420	100	3,490	89	3,117			11	373		
Average Lbs per Linear Feet = 1.0766					Average Rebar Size = 15.61					
Total 23.0 MTons	100	22,915	58	13,263	3	679	39	8,973		

BLDG CONCRETE  
 >GF CMU

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
15m Gr 420	100	702	75	526			25	176		
Average Lbs per Linear Feet = 1.0550					Average Rebar Size = 15.00					
Total .8 MTons	100	702	75	526			25	176		



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\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >3RD FL CMU ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
15m Gr 420	100	1,953	83	1,618			17	334		
Average Lbs per Linear Feet = 1.0550					Average Rebar Size = 15.00					
Total 2.0 MTons	100	1,953	83	1,618			17	334		

BLDG CONCRETE  
 >4TH FL CMU ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
15m Gr 420	100	1,953	83	1,618			17	334		
Average Lbs per Linear Feet = 1.0550					Average Rebar Size = 15.00					
Total 2.0 MTons	100	1,953	83	1,618			17	334		

BLDG CONCRETE  
 >5TH FL CMU ---- SubStructure ---- ----- STRAIGHT ----- LIGHT BENT ----- HEAVY BENT ----- STOCK/MILL -----

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
15m Gr 420	100	1,953	83	1,618			17	334		
Average Lbs per Linear Feet = 1.0550					Average Rebar Size = 15.00					
Total 2.0 MTons	100	1,953	83	1,618			17	334		

Bid Date 04/08/16

\*\* TOTALS PAGE (KG) \*\*

BLDG CONCRETE  
 >6TH FL CMU

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
15m Gr 420	100	1,953	83	1,618			17	334		
Average Lbs per Linear Feet = 1.0550					Average Rebar Size = 15.00					
Total 2.0 MTons	100	1,953	83	1,618			17	334		

GRAND TOTALS

SIZE	%	Weight	%	Weight	%	Weight	%	Weight	%	Weight
10m Gr 420	100	43,092	29	12,421	71	30,584		88		
15m Gr 420	100	642,250	81	519,673	4	27,292	14	92,704		2,581
20m Gr 420	100	200,342	86	172,678	1	1,270	13	26,394		
25m Gr 420	100	126,189	92	116,479			8	9,711		
Average Lbs per Linear Feet = 1.1698					Average Rebar Size = 17.02					
Total 1,011.9 MTons	100	1,011,873	81	821,250	6	59,145	13	128,897		2,581