

INT-113 - ADVANCED ENERGETICSRESEARCHLAB

Project Name: ADVANCED ENERGETICSRESEARCHLAB
 NAVAL SUPPORT FACILITY
 INDIAN HEAD, MD
 USA



Architect:
Engineer: LOUIS BERGER
Customer: CHRISTMAN BUILDING INNOVATION

Job Type: Lump Sum

Estimator: admin
Creation Date: 9/29/2022
Last Modified: 9/30/2022
Status: Complete

Escalation: No

Segment Summary

Segment	Rebar Wgt	Plain Wgt	Misc. Wgt	Total (Lbs)	Costing
Included Segments:					
LINE OFFICE	11,519	0	0	11,519	No
SPREAD FOOTING	2,059	0	0	2,059	No
CONTINUOUS FOOTING	5,625	0	0	5,625	No
CONCRETE PIER	362	0	0	362	No
CONCRETE WALL	1,772	0	0	1,772	No
SLAB ON GRADE	1,701	0	0	1,701	No
LABORATORY	350,937	0	0	350,937	No
CONTINUOUS FOOTING	37,820	0	0	37,820	No
CONCRETE WALL	218,957	0	0	218,957	No
SLAB ON GRADE	66,066	0	0	66,066	No
ELEVATED BEAM	2,422	0	0	2,422	No
ELEVATED SLAB	25,672	0	0	25,672	No
OVEN ROOM	3,538	0	0	3,538	No
CONTINUOUS FOOTING	1,182	0	0	1,182	No
CONCRETE WALL	2,356	0	0	2,356	No

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Size Unit: Imperial	Building Code: ACI 1983
Length Unit: Feet - Inches	Concrete Strength: 3000
Weight Unit: Pounds	Lap Table:
Soft Hooks: No	Estimating Lap: 48D
Seismic Hooks: No	Steel Manufactured In: ANY
	Tie Clearance: 0-012
	Spiral Clearance: 0-03
	Spacing Tolerance: 0-00
Rebar Coating: Black	Rebar Grade: 60
Plain Coating: Black	Plain Grade: 60
Number of lap lengths to extend a stock bar before lapping: 1	

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Line	Mat	Func	Placing	Grd	Qty	Span	Spcg	Mult	Size	Cls	L1	L2	L3	L4	L5	Lap	Stock	Lbs	Notes
1	GI	Segment: LINE OFFICE Sub-Segment: SPREAD FOOTING																	
2	MT	LINE OFFICE FOUNDATION REF-S-112																	
3	MT	CF-1 (6'-6"X6'-6"X1'-6") - (2 EACH) - REF-S-503																	
4	TR	BF		60		6-00	1-00	2*2	19/6	S	6-06							273	#6 @12" EW.BOT.
5	MT	FC-2 (5'-6"X5'-6"X1'-6") - (5 EACH) - REF-S-503																	
6	TR	BF		60		6-00	1-00	2*5	19/6	S	5-06							578	#6 @12" EW.BOT.
7	TR	BF		60	3			2	16/5	H	1-04	1-06	0-10					23	3-#5 EF.D/V
8	MT	CF-3 (4'-0"X4'-0"X1'-6") - (9 EACH) - REF-S-503																	
9	TR	BF		60		4-00	1-00	2*9	19/6	S	4-00							541	#6 @12" EW.BOT.
10	TR	BF		60	3			2*6	16/5	H	1-04	1-06	0-10					138	3#5 EF.D/V
11	MT	CF-4 (3'-3"X3'-3"X1'-6") - (6 EACH) - REF-S-503																	
12	TR	BF		60		3-03	1-00	2*6	19/6	S	3-03							293	#6 @12" EW.BOT
13	TR	BF		60	3			2*6	16/5	H	1-04	1-06	0-10					138	3-#5 EF.DWLS
14	TR	BF		60	3			2*3	16/5	H	1-08	1-06	0-10					75	3-#5 EF.D/V
15	GI	Segment: LINE OFFICE Sub-Segment: CONTINUOUS FOOTING																	
16	MT	LINE OFFICE FOUNDATION REF-S-112																	
17	MT	WF-5 (428'-0"X2'-6"X1'-6") - REF-S-503																	
18	TR	LS		60	3			1	16/5	S	428-00				0	2-06	30-00	1,457	3-#5 CONT.
19	TR	BF		60		428-00	1-00	1	16/5	S	2-06							1,119	#5 @12" TRANS
20	TR	BF		60		414-00	1-00	2	13/4	L	1-04	1-06	0-08	2-00				3,049	#4 @12" EF.D/V
21	GI	Segment: LINE OFFICE Sub-Segment: CONCRETE PIER																	
22	MT	LINE OFFICE FOUNDATION REF-S-112																	
23	MT	(2'-0"X1'-6"X1'-4") - (7 EACH) - REF-2/S-305																	
24	TR	BF		60	4			7	13/4	L	7-08							143	4-#4 TIES
25	MT	(2'-0"X2'-0"X1'-4") - (6 EACH)- REF-2/S-305																	
26	TR	BF		60	4			6	13/4	L	8-08							139	4-#4 TIES
27	MT	(2'-0"X1'-8"X1'-8") - (3 EACH) - REF-4/S-305																	
28	TR	BF		60	5			3	13/4	L	8-00							80	5-#4 TIES
29	GI	Segment: LINE OFFICE Sub-Segment: CONCRETE WALL																	
30	MT	(18"X18"X1'-4") - (414 LFT) - REF-1/S-305																	
31	TR	LS		60		1-04	1-00	2	13/4	S	414-00				0	2-00	30-00	1,772	#4 @12" EF.HORIZ.
32	GI	Segment: LINE OFFICE Sub-Segment: SLAB ON GRADE																	
33	MT	SLAB EDGE REF-1/S-305 (537 LFT)																	
34	TR	LS		60	1			1	13/4	S	537-00				0	2-00	30-00	384	1-#4 CONT.
35	TR	BF		60		537-00	1-00	1	13/4	L	3-00	0-08						1,317	#4 @12" DWLS.
36	GI	Segment: LABORATORY Sub-Segment: CONTINUOUS FOOTING																	
37	MT	LABORATOR FOUNDATION - REF-S-111																	
38	MT	WF-1 (40'-0"X6'-0"X1'-6") - REF-S-5.3																	
39	TR	BF		60	7			1	19/6	S	40-00	3-00						452	7-#6 LW.CONT.
40	TR	BF		60		40-00	1-00	1	19/6	S	6-00							370	#6 @12" SW.TRANS.
41	MT	WF-2 (156'-0"X5'-0"X1'-6") - REF-S-503																	
42	TR	LS		60	6			1	19/6	S	156-00				0	3-00	30-00	1,541	6-#6 CONT.
43	TR	BF		60		156-00	1-00	1	19/6	S	5-00							1,179	#6 @12" TRANS
44	TR	BF		60		33-00	0-08	2	19/6	H	5-00	1-06	1-00					1,149	#6 @8" EF.DWLS
45	TR	BF		60		64-00	0-08	2	16/5	H	5-00	1-06	0-10					1,484	#5 @8" EF.DWLS
46	TR	BF		60		14-00	0-08	2	22/7	H	5-00	1-06	1-02					690	#7 @8" EF.DWLS
47	TR	BF		60		97-00	0-08	2	16/5	H	3-00	1-06	0-10					1,635	#5 @8" EF.DWLS
48	MT	WF-3 (170'-0"X4'-0"X1'-6") - REF-S-503																	
49	TR	LS		60	5			1	19/6	S	170-00				0	3-00	30-00	1,412	5-#6 CONT.
50	TR	BF		60		170-00	1-00	1	19/6	S	4-00							1,027	#6 @12" TRANS
51	TR	BF		60		23-00	1-00	2	19/6	H	5-00	1-06	1-00					541	#6 @12" EF.DWLS
52	TR	BF		60		122-00	1-00	2	19/6	H	3-00	1-06	1-00					2,032	#6 @12" EF.DWLS
53	MT	WF-4 (1108'-0"X3'-0"X1'-6") - REF-S-503																	
54	TR	LS		60	4			1	19/6	S	1108-00				0	3-00	30-00	7,378	4-#6 CONT.
55	TR	BF		60		1108-00	1-00	1	19/6	S	3-00							4,995	#6 @12" TRANS
56	TR	BF		60		77-00	1-00	2	16/5	H	2-00	1-06	0-10					705	#5 @12" EF.D/V.
57	TR	BF		60		349-00	1-00	2	16/5	H	3-00	1-06	0-10					3,892	#5 @12" EF.DWLS
58	TR	BF		60		101-00	1-00	2	16/5	H	3-00	1-06	0-10					1,134	#5 @12" EF.DWLS
59	TR	BF		60		156-00	1-00	2	16/5	H	3-00	1-06	0-10					1,746	#5 @12" EF.DWLS
60	TR	BF		60		156-00	1-00	2	16/5	H	3-00	1-06	0-10					1,746	#5 @12" EF.DWLS
61	TR	BF		60		25-00	1-00	2	16/5	H	3-00	1-06	0-10					289	#5 @12" EF.DWLS

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Line	Mat	Func	Placing	Grd	Qty	Span	Spcg	Mult	Size	Cls	L1	L2	L3	L4	L5	Lap	Stock	Lbs	Notes
62	TR	BF		60		184-00	1-00	2	16/5	H	3-00	1-06	0-10					2,057	#5 @12" EF.DWLS
63	MT	(77 LFT) - REF-1/S-304																	
64	TR	BF		60		77-00	1-00	1	16/5	S	4-06							366	#5 @12" ADD'L
65	GI	Segment: LABORATORY Sub-Segment: CONCRETE WALL																	
66	MT	LABORATOR FOUNDATION - REF-S-111																	
67	MT	10" TK WALL (77 LFT) - REF-8/S-303																	
68	TR	BF		60		2-00	1-00	2	13/4	S	77-00	4-00						325	#4 @12" EF.HORIZ.
69	MT	10" TK WALL (24'-0" H) - REF-4/S-303 - (349 LFT) (TYP.10A)																	
70	TR	BF		60		349-00	1-00	2	16/5	S	24-00	0-10						18,130	#5 @12" EF.VERT.
71	TR	LS		60		24-00	1-00	2	16/5	S	349-00				0	2-06	30-00	19,765	#5 @12" EF.HORIZ.
72	TR	BF		60		24-00	1-00	2*12	16/5	H	5-00							3,129	#5 @12" EF.COR.
73	MT	DOOR OPENING - REF-S-321																	
74	TR	BF		60	12			32	19/6	S	24-00							13,842	12-#6 VERT.
75	TR	BF		60		24-00	1-00	32	13/4	L	4-04							2,316	#4 @12" TIES
76	TR	BF		60	12			32	19/6	H	3-00	1-06	1-00					3,171	12-#6 DWLS
77	TR	LS		60	12			1	19/6	S	139-00				0	3-00	30-00	2,776	12-#6 CONT
78	TR	BF		60		59-00	1-00	1	13/4	L	4-04							174	#4 @12" TIES
79	MT	18" TK WALL (24'-0" H) - REF-1/S-303 - (33 LFT) (18B)																	
80	TR	BF		60		33-00	0-08	2	19/6	S	24-00	1-00						3,830	#6 @8" EF.VERT.
81	TR	BF		60		24-00	0-08	2	19/6	S	33-00	3-00						4,001	#6 @8" EF.HORIZ.
82	TR	BF		60		24-00	0-08	1	10/3	L	1-06	0-08	0-10					42	#3 @8" STIRRUPS
83	MT	14" TK WALL (24'-0" H) - REF-3/S-303 - (23 LFT) (14A)																	
84	TR	BF		60		23-00	1-00	2	19/6	S	24-00	1-00						1,802	#6 @12" EF.VERT
85	TR	BF		60		24-00	1-00	2	19/6	S	23-00							1,727	#6 @12" EF.HORIZ
86	MT	DOOR OPENING - REF-S-321																	
87	TR	BF		60	12			4	19/6	S	24-00							1,730	12-#6 VERT.
88	TR	BF		60		24-00	1-00	4	13/4	L	4-04							290	#4 @12" TIES
89	TR	BF		60	12			4	19/6	H	3-00	1-06	1-00					396	12-#6 DWLS
90	TR	LS		60	12			1	19/6	S	14-06				0	3-00	30-00	261	12-#6 CONT
91	TR	BF		60		9-06	1-00	1	13/4	L	4-04							32	#4 @12" TIES
92	TR	BF		60	4			2*2	19/6	S	33-09							811	4-#6 EF.ADD'L
93	MT	18" TK WALL (17'-0" H) - (184) REF-4/S-304 (64 LFT)																	
94	TR	BF		60		64-00	0-08	2	16/5	S	17-00	0-10						3,609	#5 @8" EF.VERT
95	TR	BF		60		17-00	1-00	2	16/5	S	64-00	5-00						2,591	#5 @8" EF.HORIZ
96	TR	BF		60		17-00	0-08	2	16/5	H	5-00							282	#5 @8" EF.COR.
97	TR	BF		60		17-00	0-08	1	10/3	L	1-06	0-08	0-10					30	#3 @8" STIRRUPS
98	MT	18" TK WALL (17'-0" H) (18C2) REF-52/S-303 (14 LFT)																	
99	TR	BF		60		14-00	0-08	2	22/7	S	17-00	1-00						1,619	#7 @8" EF.VERT
100	TR	BF		60		17-00	0-08	2	22/7	S	14-00							1,545	#7 @8" EF.HORIZ
101	TR	BF		60		17-00	0-08	1	16/5	H	1-06	0-08	0-10					84	#5 @8" STIRRUP
102	TR	BF		60		17-00	0-08	2	22/7	H	3-06	3-06						773	#7 @8" EF.COR.
103	MT	10" TK WALL (16'-8" H) - REF-1/S-304 (101 LFT)																	
104	TR	BF		60		101-00	1-00	2	16/5	S	19-08	0-10						4,362	#5 @12" EF.VERT
105	TR	LS		60		19-08	1-00	2	16/5	S	101-00				0	2-06	30-00	4,753	#5 @12" EF.HORIZ
106	TR	BF		60		19-08	1-00	2*8	16/5	H	5-00							1,752	#5 @12" EF.COR
107	MT	DOOR OPENING - REF-S-321																	
108	TR	BF		60	12			10	19/6	S	16-08							3,004	12-#6 VERT.
109	TR	BF		60		16-08	1-00	10	13/4	L	4-04							521	#4 @12" TIES
110	TR	BF		60	12			10	19/6	H	3-00	1-06	1-00					991	12-#6 DWLS
111	TR	LS		60	12			1	19/6	S	45-00				0	3-00	30-00	865	12-#6 CONT
112	TR	BF		60		20-00	1-00	1	13/4	L	4-04							61	#4 @12" TIES
113	MT	10" TK WALL (17'-0" H) - REF-3/304 (TOF-2'-0") (156 LFT)																	
114	TR	BF		60		156-00	1-00	2	16/5	S	19-00	0-10						6,495	#5 @12" EF.VERT
115	TR	LS		60		19-00	1-00	2	16/5	S	156-00				0	2-06	30-00	7,030	#5 @12" EF.HORIZ
116	TR	BF		60		19-00	1-00	2*14	16/5	H	5-00							2,920	#5 @12" EF.COR.
117	MT	10" TK WALL (17'-4" H) - REF-3/S-304 (TOF-2'-0") (156 LFT)																	
118	TR	BF		60		156-00	1-00	2	16/5	S	19-04							6,332	#5 @12" EF.VERT
119	TR	LS		60		19-04	1-00	2	16/5	S	156-00				0	2-06	30-00	7,381	#5 @12" EF.HORIZ
120	TR	BF		60		19-04	1-00	2*6	16/5	H	5-00							1,314	#5 @12" EF.COR
121	MT	DOOR OPENING - REF-S-321																	
122	TR	BF		60	12			16	19/6	S	19-04							5,576	12-#6 VERT.

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Line	Mat	Func	Placing	Grd	Qty	Span	Spcg	Mult	Size	Cls	L1	L2	L3	L4	L5	Lap	Stock	Lbs	Notes
123	TR	BF		60		19-04	1-00	16	13/4	L	4-04							973	#4 @12" TIES
124	TR	BF		60	12			16	19/6	H	3-00	1-06	1-00					1,586	12-#6 DWLS
125	TR	LS		60	12			1	19/6	S	75-00				0	3-00	30-00	1,460	12-#6 CONT
126	TR	BF		60		35-00	1-00	1	13/4	L	4-04							104	#4 @12" TIES
127	MT	10" TK WALL (17'-6" H) - REF-3/S-304 (TOF-2'-0") (25 LFT)																	
128	TR	BF		60		25-00	1-00	2	16/5	S	19-06	0-10						1,103	#5 @12" EF.VERT
129	TR	BF		60		19-06	1-00	2	16/5	S	25-00							1,095	#5 @12" EF.HORIZ
130	TR	BF		60		19-06	1-00	2	16/5	H	5-00							219	#5 @12" EF.COR
131	MT	DOOR OPENING - REF-S-321																	
132	TR	BF		60	12			2	19/6	S	19-06							703	12-#6 VERT.
133	TR	BF		60		19-06	1-00	2	13/4	L	4-04							122	#4 @12" TIES
134	TR	BF		60	12			2	19/6	H	3-00	1-06	1-00					198	12-#6 DWLS
135	TR	LS		60	12			1	19/6	S	11-04				0	3-00	30-00	204	12-#6 CONT
136	TR	BF		60		6-04	1-00	1	13/4	L	4-04							23	#4 @12" TIES
137	MT	10" TK WALL (17'-10" H) - REF-3/S-304 (TOF-2'-0") (184 LFT)																	
138	TR	BF		60		184-00	1-00	2	16/5	S	19-10	0-10						7,975	#5 @12" EF.VERT
139	TR	LS		60		19-10	1-00	2	16/5	S	184-00				0	2-06	30-00	8,717	#5 @12" EF.HORIZ
140	TR	BF		60		19-10	1-00	2*4	16/5	H	5-00							876	#5 @12" EF.COR.
141	MT	DOOR OPENING - REF-S-321																	
142	TR	BF		60	12			18	19/6	S	19-10							6,434	12-#6 VERT.
143	TR	BF		60		19-10	1-00	18	13/4	L	4-04							1,094	#4 @12" TIES
144	TR	BF		60	12			18	19/6	H	3-00	1-06	1-00					1,784	12-#6 DWLS
145	TR	LS		60	12			1	19/6	S	81-00				0	3-00	30-00	1,568	12-#6 CONT
146	TR	BF		60		36-00	1-00	1	13/4	L	4-04							107	#4 @12" TIES
147	MT	14" TK WALL (18'-2" H) - (TOF-2'-0") (14A) - REF-4/S-303 (122 LFT)																	
148	TR	BF		60		122-00	1-00	2	19/6	S	20-02	1-00						7,821	#6 @12" EF.VERT
149	TR	LS		60		20-02	1-00	2	19/6	S	122-00				0	3-00	30-00	8,856	#6 @12" EF.HORIZ
150	TR	BF		60		20-02	1-00	2*8	19/6	H	6-00							3,173	#6 @12" EF.COR
151	MT	18" TK WALL (17'-0" H) - REF-S-141 (TOF-2'-0") (97 LFT)																	
152	TR	BF		60		97-00	0-08	2	16/5	S	19-00	0-10						6,082	#5 @8" EF.VERT
153	TR	BF		60		19-00	0-08	2	16/5	S	97-00	5-00	2-06					6,540	#5 @8" EF.HORIZ
154	TR	BF		60		19-00	0-08	2*10	16/5	H	5-00							3,129	#5 @8" EF.COR.
155	TR	BF		60		19-00	0-08	1	10/3	L	1-06	0-08	0-10					34	#3 @8" STIRRUPS
156	MT	14" TK WALL (17'-0" H) - (2'-0") (14A) REF-4/S-303 (30 LFT)																	
157	TR	BF		60		30-00	1-00	2	19/6	S	19-00	1-00						1,862	#6 @12" EF.VERT
158	TR	BF		60		19-00	1-00	2	19/6	S	30-00							1,802	#6 @12" EF.HORIZ
159	TR	BF		60		30-00	1-00	2	19/6	H	3-00	1-06	1-00					512	#6 @12" EF.DWLS
160	TR	BF		60		19-00	1-00	2	19/6	H	6-00							361	#6 @12" EF.COR
161	GI	Segment: LABORATORY Sub-Segment: SLAB ON GRADE																	
162	MT	LABORATOR FOUNDATION - REF-S-111																	
163	MT	12" TK SLAB (9184 SQ.FT) - REF-S-121																	
164	TR	RA		60		0-08	0-08	2	16/5	S	95-10	95-10				48D	30-00	62,510	#5 @8" EW.T&B.
165	TR	BF		60	570			1	13/4	L	4-071							1,753	#4 STANDEE
166	MT	6" TK SLAB (1161 SQ.FT) - REF-S-121																	
167	TR	RA		60		1-00	1-00	1	13/4	S	34-003	34-003				48D	30-00	1,734	#4 @12" EW.TOP.
168	MT	THICKEND FLOOR SLAB - REF-5/S-303																	
169	TR	BF		60	4			1	13/4	L	2-00	2-00						11	4-#4 ADD'L
170	TR	BF		60	6			2	13/4	S	5-00							40	6-#4 T&B.
171	TR	BF		60		2-00	1-00	1	13/4	S	5-00							10	#4 @12" LW
172	TR	BF		60		5-00	1-00	1	13/4	S	2-00							8	#4 @12" SW.
173	GI	Segment: LABORATORY Sub-Segment: ELEVATED BEAM																	
174	MT	CB-1 (36'-0"X1'-2"X2'-0") - REF-S-503																	
175	TR	BF		60	4			2	22/7	S	36-00	3-06						646	4-#7 T&B.CONT.
176	TR	BF		60		36-00	1-00	1	13/4	L	7-00							173	#4 @12" TIES
177	MT	CB-2 (48'-0"X1'-6"X2'-0") - REF-S-503																	
178	TR	BF		60	4			2	25/8	S	48-00	4-00						1,111	4-#8 T&B.CONT
179	TR	BF		60		48-00	1-00	1	13/4	L	7-08							251	#4 @12" TIES
180	MT	CB-3 (15'-0"X1'-0"X1'-6") - REF-S-503																	
181	TR	BF		60	4			2	19/6	S	15-00							180	4-#6 T&B.CONT.
182	TR	BF		60		15-00	1-00	1	13/4	L	5-08							61	#4 @12" TIES
183	GI	Segment: LABORATORY Sub-Segment: ELEVATED SLAB																	

INT-113 - ADVANCED ENERGETICS RESEARCH LAB

Line	Mat	Func	Placing	Grd	Qty	Span	Spcg	Mult	Size	Cls	L1	L2	L3	L4	L5	Lap	Stock	Lbs	Notes	
184	MT	6" TK SLAB (8853 SQ.FT) - REF-S-141																		
185	TR	RA		60		1-00	1-00	2	13/4	S	94-01	94-01					48D	30-00	25,672	#4 @12" EW.T&B
186	GI	Segment: OVEN ROOM Sub-Segment: CONTINUOUS FOOTING																		
187	MT	WF-3 (64'-0"X4'-0"X1'-6") - REF-S-503																		
188	TR	BF		60	5			1	19/6	S	64-00	3-00							503	5-#6 CONT.
189	TR	BF		60		64-00	1-00	1	19/6	S	4-00								390	#6 @12" TRANS
190	TR	BF		60		51-00	1-00	2	13/4	L	2-00	1-06	0-08						289	#4 @12" EF.DWLS
191	GI	Segment: OVEN ROOM Sub-Segment: CONCRETE WALL																		
192	MT	8" TK WALL (51 LFT) - REF-S-503																		
193	TR	BF		60		51-00	1-00	2	13/4	S	14-00								973	#4 @12" EF.VERT
194	TR	BF		60		14-00	1-00	2	13/4	S	51-00	2-00							1,062	#4 @12" EF.HORIZ
195	TR	BF		60		14-00	1-00	2*4	13/4	L	4-00								321	#4 @12" EF.COR.

Rebar Sub-Segment Summary

Segment: LINE OFFICE

Sub-Segment: SPREAD FOOTING

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

16/5	374	0	374	0	0
19/6	1,685	1,685	0	0	0
	<u>2,059</u>	<u>1,685</u>	<u>374</u>	<u>0</u>	<u>0</u>

Sub-Segment: CONTINUOUS FOOTING

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

13/4	3,049	0	0	3,049	0
16/5	2,576	2,576	0	0	1,408
	<u>5,625</u>	<u>2,576</u>	<u>0</u>	<u>3,049</u>	<u>1,408</u>

Sub-Segment: CONCRETE PIER

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

13/4	362	0	0	362	0
	<u>362</u>	<u>0</u>	<u>0</u>	<u>362</u>	<u>0</u>

Sub-Segment: CONCRETE WALL

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

13/4	1,771	1,771	0	0	1,683
	<u>1,771</u>	<u>1,771</u>	<u>0</u>	<u>0</u>	<u>1,683</u>

Sub-Segment: SLAB ON GRADE

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

13/4	1,701	384	0	1,317	381
	<u>1,701</u>	<u>384</u>	<u>0</u>	<u>1,317</u>	<u>381</u>

Rebar Sub-Segment Summary

Segment: LINE OFFICE

Total for Segment: LINE OFFICE

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
** Grade 60, Black **					
13/4	6,883	2,155	0	4,728	2,064
16/5	2,950	2,576	374	0	1,408
19/6	1,685	1,685	0	0	0
	<u>11,518</u>	<u>6,416</u>	<u>374</u>	<u>4,728</u>	<u>3,472</u>

Rebar Sub-Segment Summary

Segment: LABORATORY

Sub-Segment: CONTINUOUS FOOTING

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

16/5	15,054	366	14,688	0	0
19/6	22,076	18,354	3,722	0	9,914
22/7	690	0	690	0	0
	<u>37,820</u>	<u>18,720</u>	<u>19,100</u>	<u>0</u>	<u>9,914</u>

Sub-Segment: CONCRETE WALL

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

10/3	106	0	0	106	0
13/4	6,142	325	0	5,817	325
16/5	125,665	111,960	13,705	0	52,562
19/6	83,107	70,935	12,172	0	15,140
22/7	3,937	3,164	773	0	0
	<u>218,957</u>	<u>186,384</u>	<u>26,650</u>	<u>5,923</u>	<u>68,027</u>

Sub-Segment: SLAB ON GRADE

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

13/4	3,556	1,792	0	1,764	1,442
16/5	62,510	62,510	0	0	54,444
	<u>66,066</u>	<u>64,302</u>	<u>0</u>	<u>1,764</u>	<u>55,886</u>

Sub-Segment: ELEVATED BEAM

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

13/4	485	0	0	485	0
19/6	180	180	0	0	0
22/7	646	646	0	0	0
25/8	1,111	1,111	0	0	0
	<u>2,422</u>	<u>1,937</u>	<u>0</u>	<u>485</u>	<u>0</u>

Rebar Sub-Segment Summary

Segment: LABORATORY

Sub-Segment: ELEVATED SLAB

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

13/4	25,672	25,672	0	0	23,086
	<u>25,672</u>	<u>25,672</u>	<u>0</u>	<u>0</u>	<u>23,086</u>

Total for Segment: LABORATORY

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

10/3	106	0	0	106	0
13/4	35,855	27,789	0	8,066	24,853
16/5	203,229	174,836	28,393	0	107,006
19/6	105,363	89,469	15,894	0	25,054
22/7	5,273	3,810	1,463	0	0
25/8	1,111	1,111	0	0	0
	<u>350,937</u>	<u>297,015</u>	<u>45,750</u>	<u>8,172</u>	<u>156,913</u>

Rebar Sub-Segment Summary

Segment: OVEN ROOM

Sub-Segment: CONTINUOUS FOOTING

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

13/4	289	0	0	289	0
19/6	893	893	0	0	503
	<u>1,182</u>	<u>893</u>	<u>0</u>	<u>289</u>	<u>503</u>

Sub-Segment: CONCRETE WALL

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

13/4	2,356	2,035	0	321	0
	<u>2,356</u>	<u>2,035</u>	<u>0</u>	<u>321</u>	<u>0</u>

Total for Segment: OVEN ROOM

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
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** Grade 60, Black **

13/4	2,645	2,035	0	610	0
19/6	893	893	0	0	503
	<u>3,538</u>	<u>2,928</u>	<u>0</u>	<u>610</u>	<u>503</u>

Estimate Totals

**** Rebar Weight Summary (Lbs) ****

Size	Total	Straight	HEAVY	LIGHT	Stock Wgt
** Grade 60, Black **					
10/3	106	0	0	106	0
13/4	45,383	31,979	0	13,404	26,917
16/5	206,179	177,412	28,767	0	108,414
19/6	107,941	92,047	15,894	0	25,557
22/7	5,273	3,810	1,463	0	0
25/8	1,111	1,111	0	0	0
	<u>365,993</u>	<u>306,359</u>	<u>46,124</u>	<u>13,510</u>	<u>160,888</u>