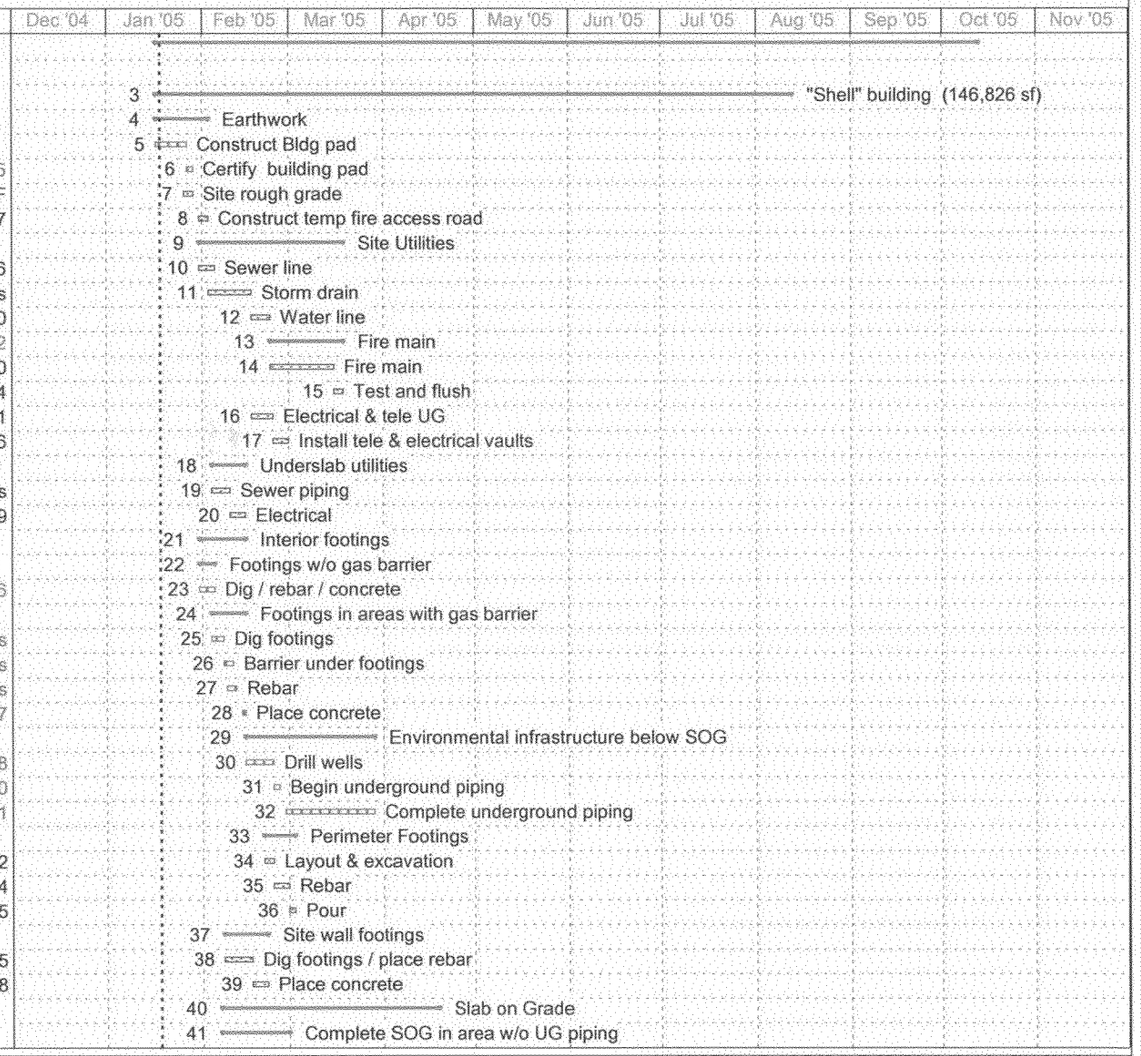
Project Manager: Charles Huang
Superintendent: Dave Harper

Tue 1/18/05

Harbor Gateway/ Lot 8 Development

ID	Task Name	Duration	Start	Finish	Predecessors
1	**Jobsite Construction**	190 days	Mon 1/17/05	Wed 10/12/05	
2					
3	"Shell" building (146,826 sf)	148 days	Mon 1/17/05	Fri 8/12/05	
4	Earthwork	13 days	Mon 1/17/05	Wed 2/2/05	
5	Construct Bldg pad	8 days	Mon 1/17/05	Wed 1/26/05	
6	Certify building pad	2 days	Thu 1/27/05	Fri 1/28/05	5
7	Site rough grade	3 days	Wed 1/26/05	Fri 1/28/05	6FF
8	Construct temp fire access road	3 days	Mon 1/31/05	Wed 2/2/05	7
9	Site Utilities	35 days	Mon 1/31/05	Fri 3/18/05	
10	Sewer line	5 days	Mon 1/31/05	Fri 2/4/05	6
11	Storm drain	10 days	Thu 2/3/05	Wed 2/16/05	10FS-2 days
12	Water line	4 days	Thu 2/17/05	Tue 2/22/05	11,10
13	Fire main	18 days	Wed 2/23/05	Fri 3/18/05	12
14	Fire main	15 days	Wed 2/23/05	Tue 3/15/05	10
15	Test and flush	3 days	Wed 3/16/05	Fri 3/18/05	14
16	Electrical & tele UG	5 days	Thu 2/17/05	Wed 2/23/05	10,11
17	Install tele & electrical vaults	3 days	Thu 2/24/05	Mon 2/28/05	10SS+4 days,16
18	Underslab utilities	7 days	Fri 2/4/05	Mon 2/14/05	
19	Sewer piping	4 days	Fri 2/4/05	Wed 2/9/05	6FS-1 day,23SS+4 days
20	Electrical	3 days	Thu 2/10/05	Mon 2/14/05	19
21	Interior footings	11 days	Mon 1/31/05	Mon 2/14/05	
22	Footings w/o gas barrier	5 days	Mon 1/31/05	Fri 2/4/05	
23	Dig / rebar / concrete	5 days	Mon 1/31/05	Fri 2/4/05	6
24	Footings in areas with gas barrier	7 days	Fri 2/4/05	Mon 2/14/05	
25	Dig footings	2 days	Fri 2/4/05	Mon 2/7/05	23SS+4 days
26	Barrier under footings	3 days	Tue 2/8/05	Thu 2/10/05	25SS+2 days
27	Rebar	3 days	Wed 2/9/05	Fri 2/11/05	26FS-2 days
28	Place concrete	1 day	Mon 2/14/05	Mon 2/14/05	27
29	Environmental infrastructure below SOG	30 days	Tue 2/15/05	Mon 3/28/05	
30	Drill wells	7 days	Tue 2/15/05	Wed 2/23/05	6,28
31	Begin underground piping	2 days	Thu 2/24/05	Fri 2/25/05	30
32	Complete underground piping	21 days	Mon 2/28/05	Mon 3/28/05	31
33	Perimeter Footings	8 days	Mon 2/21/05	Wed 3/2/05	
34	Layout & excavation	3 days	Mon 2/21/05	Wed 2/23/05	42
35	Rebar	3 days	Thu 2/24/05	Mon 2/28/05	34
36	Pour	2 days	Tue 3/1/05	Wed 3/2/05	35
37	Site wall footings	10 days	Tue 2/8/05	Mon 2/21/05	
38	Dig footings / place rebar	7 days	Tue 2/8/05	Wed 2/16/05	25
39	Place concrete	3 days	Thu 2/17/05	Mon 2/21/05	38
40	Slab on Grade	51 days	Mon 2/7/05	Mon 4/18/05	
41	Complete SOG in area w/o UG piping	16 days	Mon 2/7/05	Mon 2/28/05	



Schedule File: BoeingRealty1-17-05.mpp

Task | Critical Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Critical Task | Rolled Up Milestone | Rolled Up Progress | Split | External Tasks | Project Summary | External Milestone | Deadline

MILLIE and SEVERSON

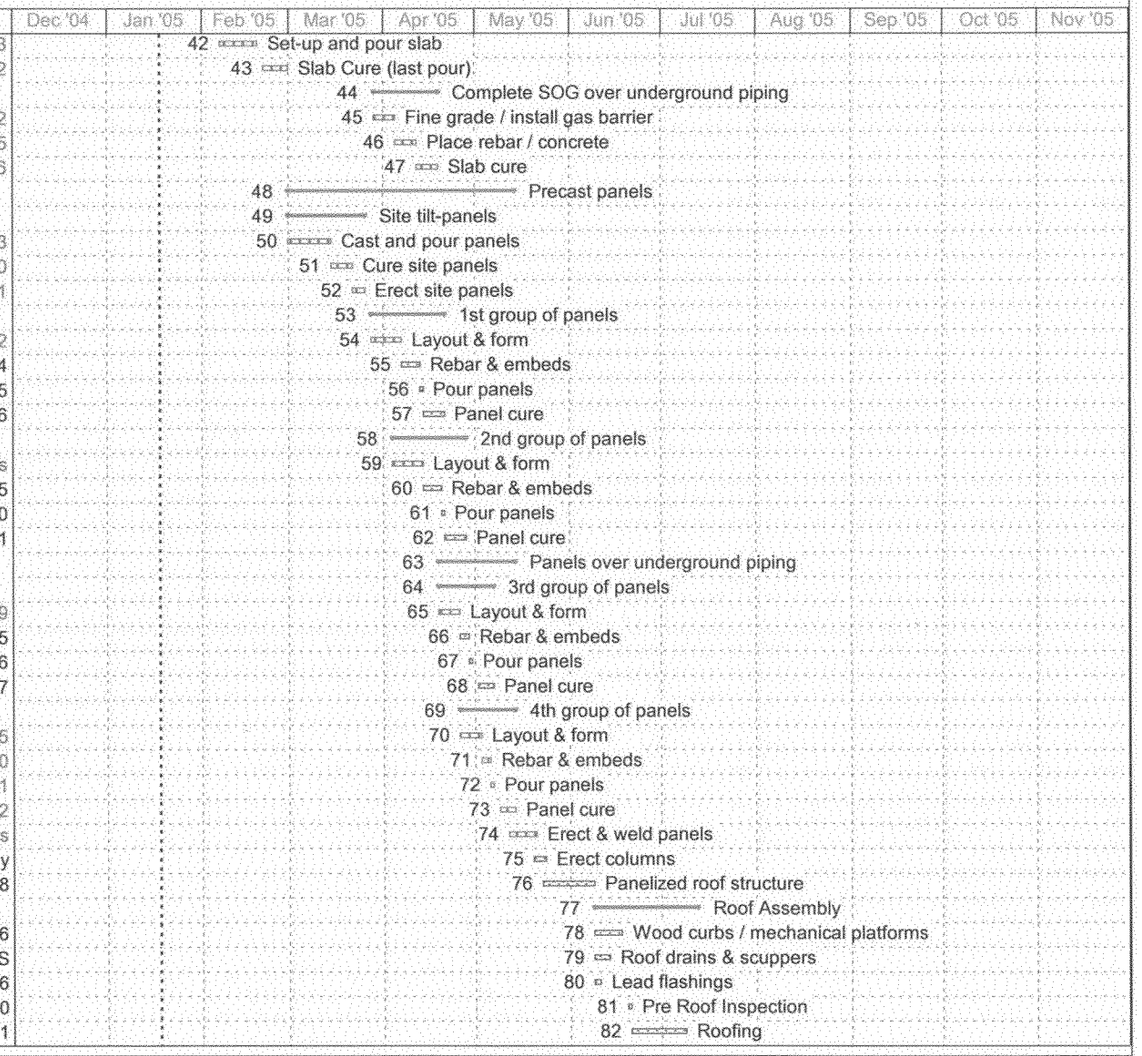
BOE-C6-0094059

Project Manager: Charles Huang
Superintendent: Dave Harper

Tue 1/18/05

Harbor Gateway/ Lot 8 Development

ID	Task Name	Duration	Start	Finish	Predecessors
42	Set-up and pour slab	10 days	Mon 2/7/05	Fri 2/18/05	23
43	Slab Cure (last pour)	6 days	Mon 2/21/05	Mon 2/28/05	42
44	Complete SOG over underground piping	15 days	Tue 3/29/05	Mon 4/18/05	
45	Fine grade / install gas barrier	5 days	Tue 3/29/05	Mon 4/4/05	32
46	Place rebar / concrete	5 days	Tue 4/5/05	Mon 4/11/05	28,32,45
47	Slab cure	5 days	Tue 4/12/05	Mon 4/18/05	46
48	Precast panels	54 days	Tue 3/1/05	Fri 5/13/05	
49	Site tilt-panels	19 days	Tue 3/1/05	Fri 3/25/05	
50	Cast and pour panels	10 days	Tue 3/1/05	Mon 3/14/05	43
51	Cure site panels	5 days	Tue 3/15/05	Mon 3/21/05	50
52	Erect site panels	4 days	Tue 3/22/05	Fri 3/25/05	51
53	1st group of panels	18 days	Mon 3/28/05	Wed 4/20/05	
54	Layout & form	8 days	Mon 3/28/05	Wed 4/6/05	43,52
55	Rebar & embeds	4 days	Thu 4/7/05	Tue 4/12/05	54
56	Pour panels	1 day	Wed 4/13/05	Wed 4/13/05	55
57	Panel cure	5 days	Thu 4/14/05	Wed 4/20/05	56
58	2nd group of panels	18 days	Mon 4/4/05	Wed 4/27/05	
59	Layout & form	8 days	Mon 4/4/05	Wed 4/13/05	54FS-3 days
60	Rebar & embeds	4 days	Thu 4/14/05	Tue 4/19/05	59,55
61	Pour panels	1 day	Wed 4/20/05	Wed 4/20/05	60
62	Panel cure	5 days	Thu 4/21/05	Wed 4/27/05	61
63	Panels over underground piping	19 days	Tue 4/19/05	Fri 5/13/05	
64	3rd group of panels	14 days	Tue 4/19/05	Fri 5/6/05	
65	Layout & form	5 days	Tue 4/19/05	Mon 4/25/05	47,59
66	Rebar & embeds	3 days	Tue 4/26/05	Thu 4/28/05	65
67	Pour panels	1 day	Fri 4/29/05	Fri 4/29/05	66
68	Panel cure	5 days	Mon 5/2/05	Fri 5/6/05	67
69	4th group of panels	14 days	Tue 4/26/05	Fri 5/13/05	
70	Layout & form	5 days	Tue 4/26/05	Mon 5/2/05	47,65
71	Rebar & embeds	3 days	Tue 5/3/05	Thu 5/5/05	70
72	Pour panels	1 day	Fri 5/6/05	Fri 5/6/05	71
73	Panel cure	5 days	Mon 5/9/05	Fri 5/13/05	72
74	Erect & weld panels	7 days	Thu 5/12/05	Fri 5/20/05	57,62,73FS-2 days
75	Erect columns	2 days	Fri 5/20/05	Mon 5/23/05	74FS-1 day
76	Panelized roof structure	12 days	Mon 5/23/05	Wed 6/8/05	74FS-1 day,75FS-1 day,8
77	Roof Assembly	23 days	Thu 6/9/05	Tue 7/12/05	
78	Wood curbs / mechanical platforms	7 days	Thu 6/9/05	Fri 6/17/05	76
79	Roof drains & scuppers	3 days	Thu 6/9/05	Mon 6/13/05	78SS
80	Lead flashings	2 days	Thu 6/9/05	Fri 6/10/05	76
81	Pre Roof Inspection	1 day	Mon 6/20/05	Mon 6/20/05	78,79,80
82	Roofing	13 days	Tue 6/21/05	Fri 7/8/05	78,81



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Task | Critical Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Critical Task | Rolled Up Milestone | Rolled Up Progress | Split | External Tasks | Project Summary | External Milestone | Deadline

MILLIE and SEVERSON

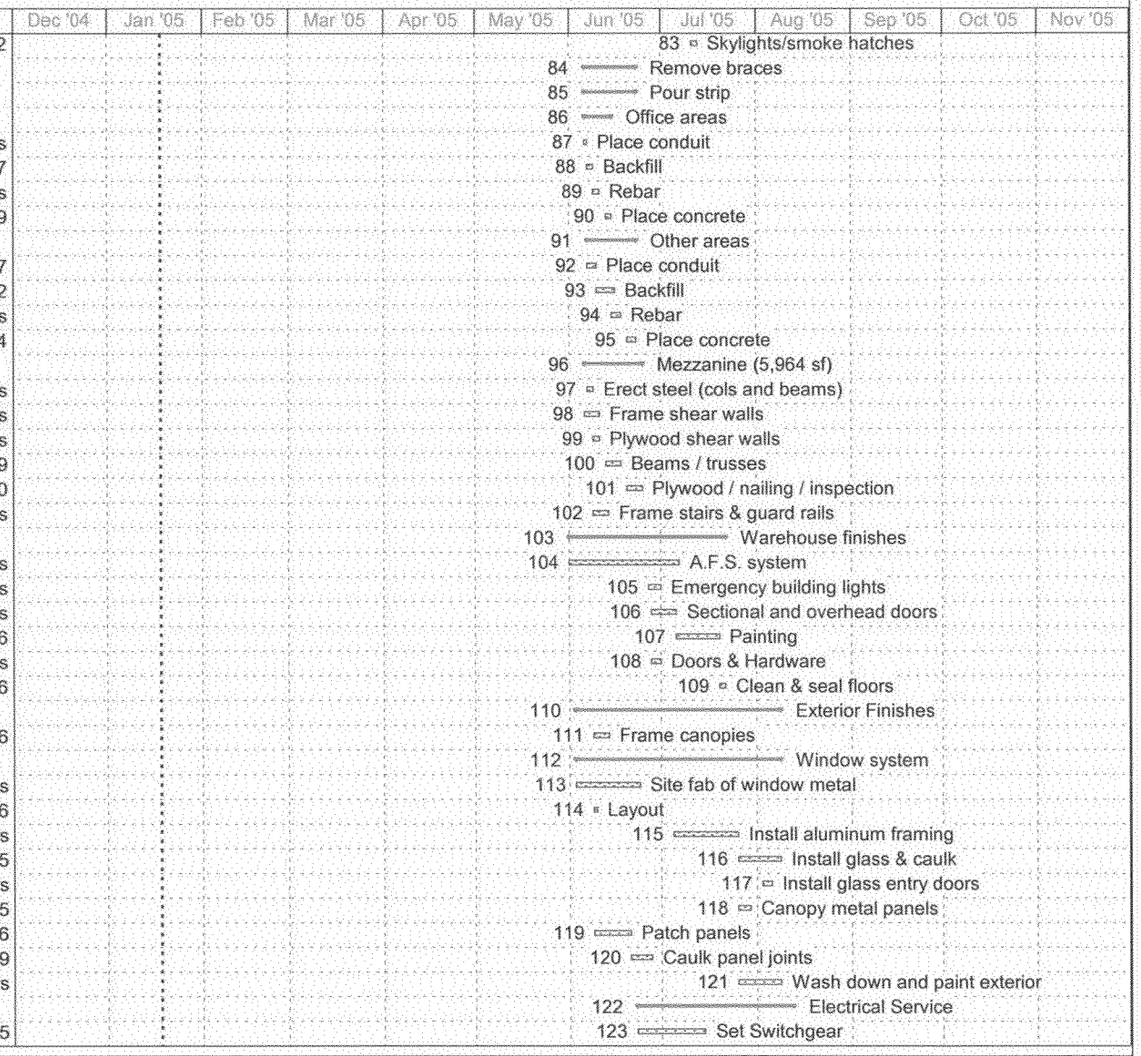
BOE-C6-0094060

Project Manager: Charles Huang
Superintendent: Dave Harper

Tue 1/18/05

Harbor Gateway/ Lot 8 Development

ID	Task Name	Duration	Start	Finish	Predecessors
83	Skylights/smoke hatches	2 days	Mon 7/11/05	Tue 7/12/05	78,82
84	Remove braces	13 days	Mon 6/6/05	Wed 6/22/05	
85	Pour strip	13 days	Mon 6/6/05	Wed 6/22/05	
86	Office areas	7 days	Mon 6/6/05	Tue 6/14/05	
87	Place conduit	1 day	Mon 6/6/05	Mon 6/6/05	74,76FS-3 days
88	Backfill	2 days	Tue 6/7/05	Wed 6/8/05	74,87
89	Rebar	2 days	Thu 6/9/05	Fri 6/10/05	88FF+2 days
90	Place concrete	2 days	Mon 6/13/05	Tue 6/14/05	89
91	Other areas	12 days	Tue 6/7/05	Wed 6/22/05	
92	Place conduit	3 days	Tue 6/7/05	Thu 6/9/05	87
93	Backfill	4 days	Fri 6/10/05	Wed 6/15/05	92
94	Rebar	3 days	Wed 6/15/05	Fri 6/17/05	93FF+2 days
95	Place concrete	3 days	Mon 6/20/05	Wed 6/22/05	94
96	Mezzanine (5,964 sf)	15 days	Mon 6/6/05	Fri 6/24/05	
97	Erect steel (cols and beams)	2 days	Tue 6/7/05	Wed 6/8/05	104SS+4 days
98	Frame shear walls	5 days	Mon 6/6/05	Fri 6/10/05	97FS-3 days
99	Plywood shear walls	2 days	Thu 6/9/05	Fri 6/10/05	98FS-2 days
100	Beams / trusses	5 days	Mon 6/13/05	Fri 6/17/05	99
101	Plywood / nailing / inspection	5 days	Mon 6/20/05	Fri 6/24/05	100
102	Frame stairs & guard rails	3 days	Thu 6/9/05	Mon 6/13/05	99FS-2 days
103	Warehouse finishes	36 days	Wed 6/1/05	Thu 7/21/05	
104	A.F.S. system	25 days	Wed 6/1/05	Wed 7/6/05	76FS-6 days
105	Emergency building lights	4 days	Mon 6/27/05	Thu 6/30/05	104FS-7 days
106	Sectional and overhead doors	5 days	Tue 6/28/05	Tue 7/5/05	104FS-6 days,105FS-8 days
107	Painting	10 days	Wed 7/6/05	Tue 7/19/05	108FF+2 days,106
108	Doors & Hardware	3 days	Tue 6/28/05	Thu 6/30/05	104FS-6 days
109	Clean & seal floors	2 days	Wed 7/20/05	Thu 7/21/05	104,105,107,108,106
110	Exterior Finishes	46 days	Fri 6/3/05	Mon 8/8/05	
111	Frame canopies	3 days	Thu 6/9/05	Mon 6/13/05	76
112	Window system	46 days	Fri 6/3/05	Mon 8/8/05	
113	Site fab of window metal	15 days	Fri 6/3/05	Thu 6/23/05	76FS-4 days
114	Layout	1 day	Thu 6/9/05	Thu 6/9/05	76
115	Install aluminum framing	15 days	Tue 7/5/05	Mon 7/25/05	,90,82FS-4 days,113FS-5 days
116	Install glass & caulk	10 days	Tue 7/26/05	Mon 8/8/05	115
117	Install glass entry doors	3 days	Wed 8/3/05	Fri 8/5/05	115,116FS-4 days
118	Canopy metal panels	4 days	Tue 7/26/05	Fri 7/29/05	111,82,115
119	Patch panels	8 days	Thu 6/9/05	Mon 6/20/05	76
120	Caulk panel joints	5 days	Tue 6/21/05	Mon 6/27/05	119
121	Wash down and paint exterior	10 days	Tue 7/26/05	Mon 8/8/05	115,119,120,118FS-4 days
122	Electrical Service	36 days	Thu 6/23/05	Fri 8/12/05	
123	Set Switchgear	15 days	Thu 6/23/05	Thu 7/14/05	95



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Task | Critical Task | Progress | Milestone | Summary | Rolled Up Task | Rolled Up Critical Task | Rolled Up Milestone | Rolled Up Progress | Split | External Tasks | Project Summary | External Milestone | Deadline

MILLIE and SEVERSON

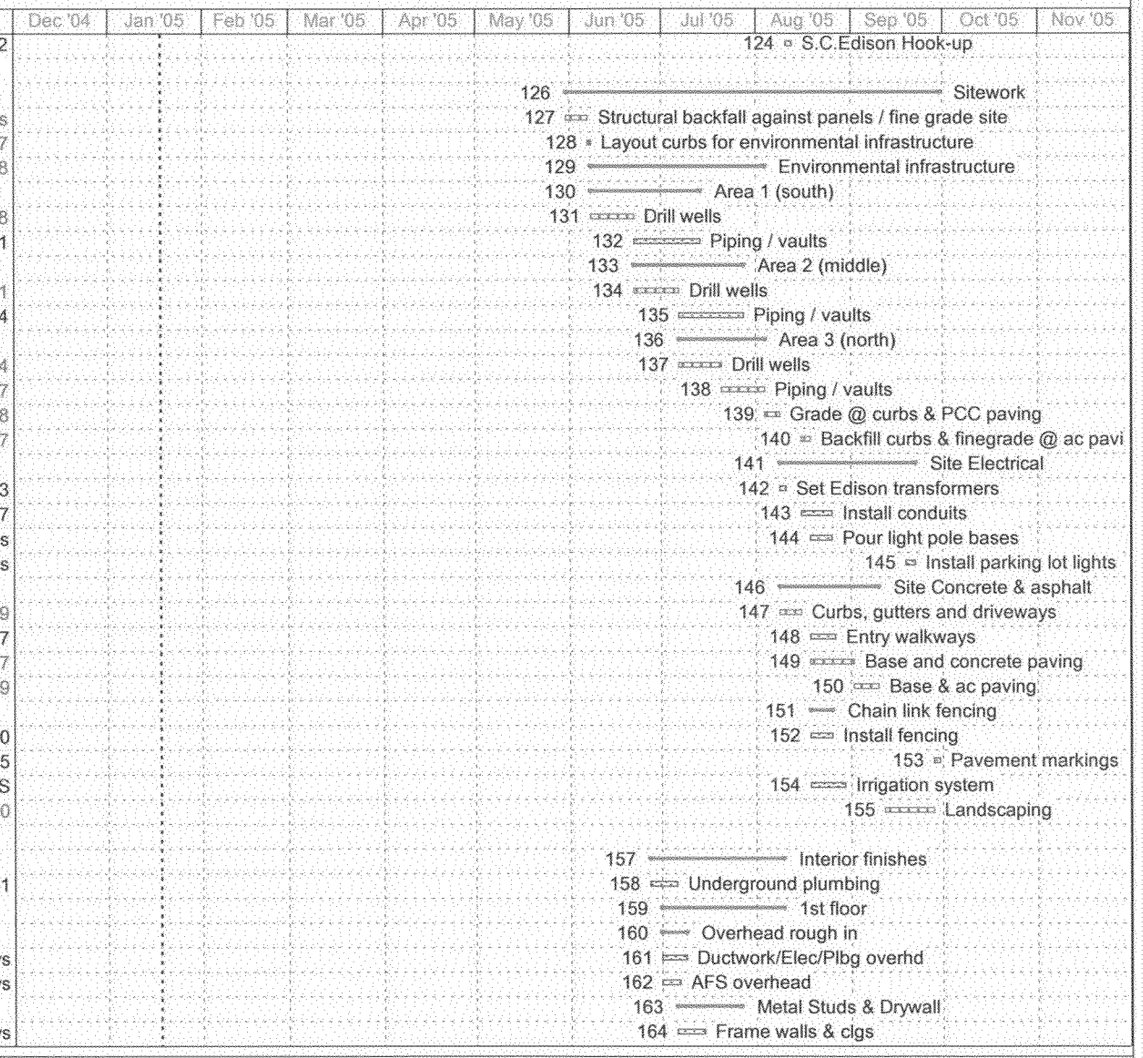
BOE-C6-0094061

Project Manager: Charles Huang
Superintendent: Dave Harper

Tue 1/18/05

Harbor Gateway/ Lot 8 Development

ID	Task Name	Duration	Start	Finish	Predecessors
124	S.C.Edison Hook-up	2 days	Thu 8/11/05	Fri 8/12/05	123,108,142
125					
126	Sitework	86 days	Tue 5/31/05	Thu 9/29/05	
127	Structural backfall against panels / fine grac	5 days	Tue 5/31/05	Mon 6/6/05	74FS+5 days
128	Layout curbs for environmental infrastructu	1 day	Tue 6/7/05	Tue 6/7/05	127
129	Environmental infrastructure	40 days	Wed 6/8/05	Wed 8/3/05	128
130	Area 1 (south)	25 days	Wed 6/8/05	Wed 7/13/05	
131	Drill wells	10 days	Wed 6/8/05	Tue 6/21/05	128
132	Piping / vaults	15 days	Wed 6/22/05	Wed 7/13/05	131
133	Area 2 (middle)	25 days	Wed 6/22/05	Wed 7/27/05	
134	Drill wells	10 days	Wed 6/22/05	Wed 7/6/05	131
135	Piping / vaults	15 days	Thu 7/7/05	Wed 7/27/05	134
136	Area 3 (north)	20 days	Thu 7/7/05	Wed 8/3/05	
137	Drill wells	10 days	Thu 7/7/05	Wed 7/20/05	134
138	Piping / vaults	10 days	Thu 7/21/05	Wed 8/3/05	130,137
139	Grade @ curbs & PCC paving	3 days	Thu 8/4/05	Mon 8/8/05	138
140	Backfill curbs & finegrade @ ac paving	3 days	Tue 8/16/05	Thu 8/18/05	147
141	Site Electrical	31 days	Tue 8/9/05	Wed 9/21/05	
142	Set Edison transformers	2 days	Tue 8/9/05	Wed 8/10/05	139,123
143	Install conduits	8 days	Tue 8/16/05	Thu 8/25/05	147
144	Pour light pole bases	5 days	Fri 8/19/05	Thu 8/25/05	143SS+3 days
145	Install parking lot lights	3 days	Mon 9/19/05	Wed 9/21/05	144,150FS+5 days
146	Site Concrete & asphalt	23 days	Tue 8/9/05	Fri 9/9/05	
147	Curbs, gutters and driveways	5 days	Tue 8/9/05	Mon 8/15/05	139
148	Entry walkways	6 days	Fri 8/19/05	Fri 8/26/05	140,147
149	Base and concrete paving	10 days	Fri 8/19/05	Thu 9/1/05	140,147
150	Base & ac paving	5 days	Fri 9/2/05	Fri 9/9/05	140,147,149
151	Chain link fencing	5 days	Fri 8/19/05	Thu 8/25/05	
152	Install fencing	5 days	Fri 8/19/05	Thu 8/25/05	140
153	Pavement markings	2 days	Wed 9/28/05	Thu 9/29/05	147,150FS+3 days,155
154	Irrigation system	7 days	Fri 8/19/05	Mon 8/29/05	148SS
155	Landscaping	12 days	Mon 9/12/05	Tue 9/27/05	154FS-2 days,150
156					
157	Interior finishes	31 days	Mon 6/27/05	Tue 8/9/05	
158	Underground plumbing	6 days	Mon 6/27/05	Tue 7/5/05	99FS-2 days,101
159	1st floor	27 days	Fri 7/1/05	Tue 8/9/05	
160	Overhead rough in	5 days	Fri 7/1/05	Fri 7/8/05	
161	Ductwork/Elec/Plbg overhd	5 days	Fri 7/1/05	Fri 7/8/05	158FS-2 days,99FS-2 days
162	AFS overhead	3 days	Fri 7/1/05	Wed 7/6/05	161FS-5 days
163	Metal Studs & Drywall	15 days	Wed 7/6/05	Tue 7/26/05	
164	Frame walls & clgs	7 days	Wed 7/6/05	Thu 7/14/05	161FS-3 days,162FS-3 days



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MILLIE and SEVERSON

BOE-C6-0094062

Project Manager: Charles Huang
Superintendent: Dave Harper

Tue 1/18/05

Harbor Gateway/ Lot 8 Development

ID	Task Name	Duration	Start	Finish	Predecessors
165	Elec & plbg rough in	5 days	Wed 7/13/05	Tue 7/19/05	164FS-2 days
166	Insulation 1st fl	1 day	Mon 7/18/05	Mon 7/18/05	165FS-2 days
167	Drywall 1st fl	4 days	Thu 7/14/05	Tue 7/19/05	166FS-3 days
168	Taping 1st flr	7 days	Mon 7/18/05	Tue 7/26/05	167FS-2 days
169	Finishes	13 days	Fri 7/22/05	Tue 8/9/05	
170	Paint prime coats 1st fl	2 days	Tue 7/26/05	Wed 7/27/05	168FS-1 day
171	Acoustical ceiling 1st fl	9 days	Tue 7/26/05	Fri 8/5/05	
172	T bar grid	4 days	Tue 7/26/05	Fri 7/29/05	170FS-2 days
173	Lights and grilles	5 days	Wed 7/27/05	Tue 8/2/05	172FS-3 days
174	Acoustic tile	4 days	Tue 8/2/05	Fri 8/5/05	173FS-1 day
175	Toilet rooms	10 days	Fri 7/22/05	Thu 8/4/05	
176	Paint prime coat	1 day	Fri 7/22/05	Fri 7/22/05	168FS-3 days
177	Ceramic tile	7 days	Fri 7/22/05	Mon 8/1/05	168FS-3 days,176FS-3 days
178	Plumbing fixtures	3 days	Tue 8/2/05	Thu 8/4/05	177
179	Partitions & acc.	2 days	Wed 8/3/05	Thu 8/4/05	178FS-2 days
180	Install frames/doors/hdw	3 days	Tue 8/2/05	Thu 8/4/05	170SS+4 days,173SS+4 days
181	Flooring	2 days	Tue 8/2/05	Wed 8/3/05	ys,173FS-3 days,180FS-3 days
182	Install interior glass	1 day	Wed 8/3/05	Wed 8/3/05	180FS-2 days
183	Install cabinets	2 days	Fri 7/29/05	Mon 8/1/05	170FS-1 day,172FS-1 day
184	Paint finish coats	5 days	Wed 8/3/05	Tue 8/9/05	180FS-2 days,181FS-2 days
185	MEP Finishes	7 days	Mon 8/1/05	Tue 8/9/05	
186	Plbg @ cabinets 1st fl	1 day	Mon 8/1/05	Mon 8/1/05	183FS-1 day
187	Electrical 1st fl	3 days	Fri 8/5/05	Tue 8/9/05	ys,183FS-3 days,184FS-3 days
188					
189	Building finals	15 days	Thu 9/22/05	Wed 10/12/05	
190	Final Inspections	5 days	Thu 9/22/05	Wed 9/28/05	186,187,155FF+1 day,109,121
191	Rain delays	10 days	Thu 9/29/05	Wed 10/12/05	190
192	Final completion	0 days	Wed 10/12/05	Wed 10/12/05	191

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MILLIE and SEVERSON

BOE-C6-0094063