



## PILE DRIVING SUMMARY

Client: Chapin Reality  
 General Contractor: Ledgewood Construction, Inc.  
 Pile Contractor: H.B. Fleming Contracting and Engineering, Inc.  
 Pile Hammer: APE D-19 Single Action Diesel Hammer  
 Pile Type #1: HP 12 x 53 ASTM A-572 Grade 50 with Cast Driving Tip  
 Pile Type #2: HP 10 x 57 ASTM A-572 Grade 50 with Cast Driving Tip

SWCE Job # 06-0726.2  
 Project: Marriott Residence Inn  
 Location: Fore Street Portland, Maine  
 Rated Energy (ft-lbs): 42, 800 ft-lbs  
 Design Capacity: 50-tons  
 Design Capacity: 75-tons

Pile #	Total Driven Length (feet)	Total Cut Off length (feet)	Tip Elevation (feet)	In-place Length (feet)	Final Set (blows/inch)						Pile Type	Date Final Set	Remarks
1	60.7	16.9	-30.6	43.8	4	7	8	8/.75			12x53	04/10/08	
2	54.1	9.5	-31.4	44.6	5	6	5	6	6	6	12x53	04/10/08	Spliced at elevation 4.7-feet.
3	60.6	16.6	-30.8	44.0	3	3	3	4	5	8/.75	12x53	04/10/08	
4	60.7	16.7	-30.8	44.0	3	3	4	5	6	10/.75	12x53	04/10/08	
5	60.7	20.4	-27.1	40.3	4	5	6	6	6	6	12x53	04/11/08	
6	60.7	19.8	-27.7	40.9	5	5	6	7	7	7	12x53	04/11/08	
7	60.5	16.9	-30.4	43.6	4	4	6	9	11	8/5	10x57	04/10/08	
8	60.5	17.1	-30.2	43.4	4	6	5	5	8	10/.75	10x57	04/10/08	Out of plumb 2" in 4'
9	60.7	20.0	-27.5	40.7	4	4	6	7	7	7/.75	12x53	04/11/08	
10	60.7	19.9	-27.6	40.8	4	4	6	10			12x53	04/11/08	
11	60.7	24.8	-22.7	35.9	6	6	6	5	5	8/5	12x53	04/21/08	
12	60.7	24.8	-22.7	35.9	3	5	10/.75				12x53	04/21/08	
13	60.5	32.1	-15.2	28.4	10/.5						10x57	04/28/08	
14	32.4	3.8	-15.4	28.6	10/.75						10x57	04/28/08	
15	36.9	11.5	-12.2	25.4	5	4	4	8	7	7	12x53	04/22/08	
16	29.6	4.7	-11.7	24.9	5	6	6	7			12x53	04/23/08	
17	60.7	40.2	-7.3	20.5	5	8/0					12x53	04/22/08	
18	25.1	3.1	-8.8	22.0	4	7	8/5				12x53	04/23/08	
19				25.3							10x57	04/22/08	Rejected and replaced with # 19A
19A	41.3	23.8	-4.3	17.5	12						10x57	04/24/08	Replacement pile for # 19
20	28.0	8.5	-6.3	19.5	11	10	10	10			10x57	04/22/08	Final set numbers are restrrike
21	60.5	41.0	-6.3	19.5	10/.5						10x57	04/22/08	
22	26.6	7.2	-6.2	19.4	6	6/0					10x57	04/22/08	
23	40.5	18.9	-8.4	21.6	5	9	7/.75				12x53	04/22/08	



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 Design Capacity: 75-tons

Pile #	Total Driven Length (feet)	Total Cut Off length (feet)	Tip Elevation (feet)	In-place Length (feet)	Final Set (blows/inch)						Pile Type	Date Final Set	Remarks
					2	3	4	7	7	7/7.5			
24	28.8	6.9	-8.7	21.9	2	3	4	7	7	7/7.5	12x53	04/23/08	
25	36.0	16.6	-6.2	19.4	4	8	8	10	10		10x57	04/23/08	
26	24.2	3.7	-7.3	20.5	10/5						10x57	04/23/08	
27	60.7	42.7	-4.8	18.0	5	10/5					12x53	04/25/08	
28	22.7	5.0	-4.5	17.7	4	5	8/5				12x53	04/25/08	
29	60.6	19.0	-27.8	41.6	2	4	5	6	6	7/5	12x53	04/09/08	Out of plumb 2" in 4'
30	60.7	18.8	-28.1	41.9	6	7	7/5				12x53	04/09/08	
31	60.7	17.8	-28.7	42.9	5	6	9	8/5			12x53	04/11/08	
32	60.7	18.4	-28.1	42.3	5	6	9	8/5			12x53	04/11/08	
33	60.7	20.6	-26.9	40.1	4	5	7	6	7	8	12x53	04/11/08	
34	60.7	23.5	-24.0	37.2	5	5	6	6	8		12x53	04/11/08	
35	60.5	23.9	-22.4	36.6	3	4	7	12			10x57	04/16/08	
36	60.5	22.7	-23.6	37.8	4	4	4	10/5			10x57	04/16/08	
37	60.7	20.7	-25.8	40.0	5	4	5	6	6	6/5	12x53	04/21/08	
38	60.7	22.4	-24.1	38.3	6	5	5	7	8	8	12x53	04/21/08	
39	60.7	22.4	-24.1	38.3	3	4	5	5	10/7.5		12x53	04/21/08	
40	60.7	22.2	-24.3	38.5	10/7.5						12x53	04/21/08	
41	36.2	0.2	-21.8	36.0	3	4	5	5	6	10/7.5	10x57	04/21/08	
42	60.5	27.6	-18.7	32.9	5	10/25					10x57	04/21/08	
43	60.7	33.6	-12.9	27.1	4	5	5	6	8	6/5	12x53	04/23/08	
44	33.9	6.9	-12.8	27.0	7	8	10/5				12x53	04/23/08	
45	60.7	36.6	-9.9	24.1	8	7	6	7	7		12x53	04/22/08	
46	39.1	15.5	-9.4	23.6	10/25						12x53	04/23/08	
47	60.7	38.8	-7.7	21.9	4	4	10/5				12x53	04/23/08	



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 Design Capacity: 75-tons

Pile #	Total Driven Length (feet)	Total Cut Off length (feet)	Tip Elevation (feet)	In-place Length (feet)	Final Set (blows/inch)						Pile Type	Date Final Set	Remarks
48	37.7	15.9	-7.6	21.8	4	5	8	8			12x53	04/24/08	
49	36.5	14.1	-9.2	22.4	5	9	11				10x57	04/23/08	
50	27.3	3.8	-10.3	23.5	6	6	7	8	9	10	10x57	04/22/08	
51	60.7	34.7	-11.8	26.0	5	6	8	8			12x53	04/24/08	
52	35.0	9.3	-11.5	25.7	5	10/.75					12x53	04/24/08	
53	60.5	35.7	-10.6	24.8	7	8	10/.5				10x57	04/23/08	
54	60.5	36.2	-10.1	24.3	10/.5						10x57	04/23/08	
55	60.7	37.4	-9.1	23.3	10/.5						12x53	04/24/08	
56	60.7	40.5	-6.4	20.2	5	4	5	6	6	10	12x53	05/05/08	
57	40.8	19.7	-7.3	21.1	5	6	7	9			12x53	05/05/08	
58	60.6	23.9	-22.9	36.7	4	4	7	7	7/.5		12x53	04/09/08	
59				0.0							12x53	04/09/08	Extracted and replaced by # 59A
59A	44.3	10.6	-19.9	33.7	5	6	6	6			12x53	04/11/08	Replacement pile for # 59
60	60.6	26.1	-20.7	34.5	5	10/.5					12x53	04/09/08	
61	60.7	36.4	-13.6	24.3	8	8	7	6			12x53	04/11/08	
62	60.7	36.3	-13.7	24.4	5	5	5	6	7	7	12x53	04/11/08	
63	30.5	4.7	-12.6	25.8	4	5	10				12x53	04/16/08	
64	60.5	32.9	-13.4	27.6	10/.25						10x57	04/16/08	
65	33.2	5.5	-13.5	27.7	5	6	8	10	5/.5		10x57	04/16/08	
66	60.7	28.6	-17.9	32.1	4	5	5	7	7	8	12x53	04/21/08	
67	35.0	6.1	-14.7	28.9	7	8	8				12x53	04/21/08	
68	60.7	34.7	-11.8	26.0	5	7	7	7			12x53	04/21/08	
69	60.7	29.4	-17.1	31.3	5	5	6	6	7	7	12x53	04/21/08	Out of plumb 3.75" in 4'
70	60.5	36.1	-10.2	24.4	5	10/.75					10x57	04/21/08	



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Pile #	Total Driven Length (feet)	Total Cut Off length (feet)	Tip Elevation (feet)	In-place Length (feet)	Final Set (blows/inch)						Pile Type	Date Final Set	Remarks
71	60.5	35.9	-10.4	24.6	10/.5						10x57	04/21/08	
72	60.7	36.2	-10.3	24.5	6	10					12x53	04/30/08	
73	36.5	12.0	-10.3	24.5	4	6	9	8			12x53	04/30/08	
74	40.9	20.1	-6.6	20.8	10						12x53	04/30/08	
75	39.9	18.7	-7.0	21.2	5	6	6	7	7	7	12x53	04/30/08	
76	60.7	40.7	-7.6	20.0	5	10					12x53	05/01/08	
77	22.7	2.1	-8.2	20.6	10/.75						12x53	05/01/08	
78	41.0	20.5	-8.1	20.5	7	6	6	8			12x53	05/01/08	
79	22.6	2.7	-7.5	19.9	6	10/.75					12x53	05/01/08	
80	24.0	6.0	-8.9	18.0	6	9	10/.75				10x57	05/01/08	
81	22.9	2.9	-10.9	20.0	6	5	5	6	7	10	10x57	05/01/08	Out of plumb 3" in 4'
82	60.5	34.3	-13.0	26.2	3	3	3	4	5	10/.5	10x57	05/01/08	
83	60.5	34.5	-12.8	26.0	3	3	4	4	10/.5		10x57	05/01/08	
84	60.7	35.3	-11.2	25.4	4	5	9	9/.25			12x53	05/02/08	
85	60.7	35.6	-10.9	25.1	10/.5						12x53	05/02/08	Splice on #86 UT tested by QAL
86	30.7	6.7	-9.8	24.0	10/.5						12x53	05/05/08	Spliced at elevation 10.5-feet.
87	26.7	5.1	-7.8	21.6	6	8	8				12x53	05/06/08	Spliced at elevation 12.6-feet.
88	34.8	12.9	-8.1	21.9	4	6	8	8/.75			12x53	05/06/08	
89	41.3	7.4	-20.1	33.9	3	5	5	8	8	10/.5	10x57	04/14/08	Spliced at elevation 10.4-feet.
90	60.5	28.6	-18.1	31.9	3	5/.25					10x57	04/08/08	PDA test pile with GZA monitoring.
91	60.5	40.7	-9.1	19.8	5	10/.25					10x57	04/15/08	
92	26.5	7.7	-8.1	18.8	5	6	7	7	9	10/.5	10x57	04/15/08	
93	37.5	26.1	-0.7	11.4	5	7	9	10	5/.25		10x57	04/15/08	
94	60.5	40.0	-6.3	20.5	4	5	5	10/.75			10x57	04/25/08	



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95	42.1	19.2	-8.7	22.9	10	9	10/.5				10x57	04/28/08	Spliced at elevation 13.9-feet.		
96	40.3	19.4	-6.7	20.9	5	5	5	7	7	10	10x57	04/25/08			
97	60.7	33.5	-13.0	27.2	10/.75						12x53	04/28/08			
98	33.8	6.5	-13.1	27.3	5	9	5/.5				12x53	04/28/08			
99	60.7	34.7	-11.8	26.0	4	4	4	6	6	8	12x53	04/30/08			
100	35.0	10.0	-10.8	25.0	4	6	6	8			12x53	04/30/08			
101	60.5	36.9	-9.4	23.6	6	9	9	9/.75			10x57	04/30/08			
102	37.2	13.9	-9.1	23.3	6	7	7	8	9	9/.5	10x57	04/30/08			
103	60.7	39.4	-7.1	21.3	10/.5						12x53	04/30/08			
104	39.7	18.3	-7.2	21.4	10/.5						12x53	04/30/08			
105	60.7	40.6	-5.9	20.1	10/.25						12x53	04/30/08			
106	60.7	39.6	-6.9	21.1	10/.5						12x53	04/30/08			
107	60.5	40.2	-7.9	20.3	10/.25						10x57	05/09/08			
108	60.5	39.2	-8.9	21.3	15						10x57	05/08/08			
109	37.3	18.0	-10.2	19.3	10	10/.25						10x57	05/08/08		
110	39.5	18.0	-12.4	21.5	4	10/.75						10x57	05/08/08		
111	60.5	39.0	-12.4	21.5	3	9	12/.75						10x57	05/09/08	
112	34.8	7.8	-12.8	27.0	10/.5						10x57	05/01/08			
113	34.6	8.1	-12.3	26.5	5	10/.5						10x57	05/01/08		
114	31.1	0.9	-16.4	30.2	6	7	7	8	9	10/.75	10x57	05/07/08			
115	60.5	30.8	-15.9	29.7	7	10	10/.75						10x57	05/07/08	
116	60.7	34.5	-12.4	26.2	4	4	3	7	7	7	12x53	05/06/08			
117	32.8	8.2	-10.8	24.6	4	4	5	6	7	7	12x53	05/06/08	Spliced at elevation 9.1-feet.		
118	24.8	1.9	-9.1	22.9	5	6	5	6	7	10/.75	10x57	04/08/08			



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					4	5	6	6	8	9				
119	38.8	20.6	-4.4	18.2	4	5	6	6	8	9	10x57	04/08/08		
120	33.2	15.8	-3.2	17.4	5	4	5	7	6	7	12x53	04/11/08	Out of plumb 2-inches in 4-feet	
121	33.1	18.5	-0.4	14.6	6	10/.75					12x53	04/11/08		
122	19.9	4.7	-1.0	15.2	4	7	7				12x53	04/15/08		
123	26.5	11.2	-1.1	15.3	5	5	7	7	7	7/.75	12x53	04/15/08		
124	60.7	38.6	-7.9	22.1	4	4	5	5	6	9	12x53	04/15/08		
125	22.8	1.0	-7.6	21.8	4	4	5	6	6	6	12x53	04/15/08		
126	30.3	0.8	-15.3	29.5	5	6	8				12x53	04/28/08		
127	35.6	8.0	-13.4	27.6	5	6	6	7			12x53	05/02/08	Splice on #128 UT tested by QAL	
128	34.0	6.6	-13.2	27.4	5	6	8/.75				12x53	05/05/08	Spliced at elevation 5.0-feet.	
129	34.1	10.2	-9.7	23.9	9	10	12				12x53	05/12/08	Out of plumb 3.5-inches in 4-feet.	
130	34.3	9.7	-10.4	24.6	3	3	3	5	8	10	12x53	05/12/08	Spliced at elevation 7.6-feet.	
131	34.6	11.1	-9.3	23.5	8	5	6	6	10		12x53	05/12/08	Spliced at elevation 10.2-feet.	
132	39.3	14.3	-10.8	25.0	3	3	5	8	10/.5		12x53	05/12/08	Spliced at elevation 8.2-feet.	
133	29.0	2.1	-12.7	26.9	8	8	8	8	9	10	10x57	05/12/08		
134	34.0	7.8	-12.0	26.2	6	6	7	8	10	10/.75	10x57	05/12/08	Spliced at elevation 4.0-feet.	
135	40.6	13.5	-12.9	27.1	8	7	7	9	10	10	10x57	05/12/08		
136	60.5	32.4	-13.9	28.1	11	12	12	12	12	12	10x57	05/08/08	Short stroke until end of final set.	
137	32.7	5.3	-13.2	27.4	8	8	8	9	9	10	10x57	05/08/08		
138	60.5	37.0	-9.3	23.5	10/.25							10x57	05/08/08	
139	39.3	15.8	-9.3	23.5	10/.25							10x57	05/09/08	
140	40.0	12.7	-13.1	27.3	5	5	5	7	9	9	12x53	05/12/08	Spliced at elevation 6.9-feet.	
141	60.7	33.8	-14.0	26.9	5	7	7	10/.75			12x53	05/08/08		
142	33.2	5.7	-14.6	27.5	6	8	10				12x53	05/08/08		



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143	60.7	32.9	-14.9	27.8	5	7	10/.75				12x53	05/08/08	
144	31.7	3.7	-15.1	28.0	5	12/.5					10x57	05/08/08	
145	60.5	31.4	-16.2	29.1	5	5	12/.5				10x57	05/08/08	
146	36.5	4.5	-18.2	32.0	6	6	7	7	7	10/.5	10x57	05/07/08	
147	60.5	28.5	-18.2	32.0	6	7	7	7	9	12/.75	10x57	05/07/08	
148	32.7	4.0	-14.9	28.7	8	8	7	8	8	10/.75	10x57	05/07/08	
149	60.5	32.4	-14.3	28.1	10/.5						10x57	05/07/08	
150	60.5	44.2	2.5	16.3	3	10/.5					10x57	04/08/08	
151	36.9	21.5	-1.6	15.4	10	12/.5					10x57	04/08/08	
152	24.2	7.5	-2.5	16.7	3	5	5	6	6	6	12x53	04/14/08	
153	19.3	1.5	-3.6	17.8	6	5/.25					12x53	04/14/08	
154	38.9	21.5	-3.2	17.4	5	6	5	6	7	7	12x53	04/15/08	
155	21.8	4.0	-3.6	17.8	4	4	7	7/.75			12x53	04/15/08	
156	30.3	6.5	-9.6	23.8	5	3	5	7	7	7	12x53	04/15/08	Out of plumb 2-inches in 4-feet
157	30.2	10.5	-5.5	19.7	6	6	5	6	6	8	12x53	04/15/08	
158	60.7	34.3	-12.2	26.4	10/.5						12x53	04/28/08	
159	60.7	30.0	-16.5	30.7	10/.25						12x53	04/28/08	
160	60.6	42.7	-4.1	17.9	12						10x57	04/08/08	
161	60.6	42.6	-4.2	18.0	4	5	9				10x57	04/08/08	PDA test pile with GZA monitoring.
162	41.6	23.0	-5.4	18.6	3	3	5	5	6	6/.5	12x53	04/08/08	
163	60.7	41.3	-5.2	19.4	3	5	6	6	6/.5		12x53	04/08/08	
164	23.8	2.2	-6.9	21.6	4	4	4	6	6	6	12x53	04/09/08	
165	35.0	13.8	-7.0	21.2	4	5	7/.5				12x53	04/08/08	PDA test pile with GZA monitoring.
166	25.0	4.7	-6.1	20.3	3	4	5	6	6	8	12x53	04/28/08	



## PILE DRIVING SUMMARY

Client: Chapin Reality  
 General Contractor: Ledgewood Construction, Inc.  
 Pile Contractor: H.B. Fleming Contracting and Engineering, Inc.  
 Pile Hammer: APE D-19 Single Action Diesel Hammer  
 Pile Type #1: HP 12 x 53 ASTM A-572 Grade 50 with Cast Driving Tip  
 Pile Type #2: HP 10 x 57 ASTM A-572 Grade 50 with Cast Driving Tip

SWCE Job # 06-0726.2  
 Project: Marriott Residence Inn  
 Location: Fore Street Portland, Maine  
 Rated Energy (ft-lbs): 42, 800 ft-lbs  
 Design Capacity: 50-tons  
 Design Capacity: 75-tons

Pile #	Total Driven Length (feet)	Total Cut Off length (feet)	Tip Elevation (feet)	In-place Length (feet)	Final Set (blows/inch)						Pile Type	Date Final Set	Remarks
					4	5	6	7	7	7			
167	34.6	15.3	-5.1	19.3	4	4	5	6	7	7	12x53	04/28/08	
168	60.5	36.2	-10.1	24.3	10/5						10x57	04/25/08	
169	60.5	34.9	-11.4	25.6	10/25						10x57	04/25/08	
170	35.2	6.0	-15.0	29.2	3	3	4	7	7	10/75	10x57	04/25/08	
171	36.5	6.9	-15.4	29.6	3	3	4	5	8	10/5	10x57	04/25/08	
172	32.0	2.4	-15.4	29.6	7	6	7	9	10/5		10x57	05/01/08	
173	31.6	4.1	-13.3	27.5	2	2	8	9	10	10/75	10x57	05/02/08	
174	60.5	31.3	-15.0	29.2	8	8	8	9	9	10	10x57	05/02/08	
175	35.9	5.5	-16.2	30.4	9	10					12x53	05/02/08	
176	60.5	34.9	-12.7	25.6	3	9	10/5				10x57	05/01/08	
177	60.5	35.4	-12.2	25.1	10/75						10x57	05/01/08	
178	32.5	5.7	-13.9	26.8	9	10/5					10x57	05/01/08	
179	60.5	35.2	-11.5	25.3	5	6	8	9	14	15	10x57	04/07/08	
180	39.2	13.0	-12.4	26.2	4	5	7	8	8	9	10x57	04/09/08	
181	60.6	36.3	-10.1	24.3	5	5	5	6	7	9/75	12x53	04/09/08	
182	60.7	35.9	-10.6	24.8	4	3	4	5	5	6	12x53	04/08/08	PDA test pile with GZA monitoring.
183	60.7	36.1	-10.4	24.6	5	5	5	6	6	6	12x53	04/09/08	
184	36.4	15.8	-6.4	20.6	6	10	10/5				12x53	04/09/08	
185	60.6	37.8	-8.6	22.8	6	5	5	6	6	6	12x53	04/09/08	
186	60.7	39.0	-7.5	21.7	4	5	10/5				10x57	04/09/08	
187	39.3	17.1	-8.0	22.2	5	9	9	9			10x57	04/09/08	
188	60.7	30.2	-17.6	30.5	4	4	5	6	10/75		12x53	04/16/08	
189	32.3	0.3	-19.1	32.0	5	5	5	6	6	6	12x53	04/15/08	Spliced at elevation 11.8-feet.
190	60.7	30.8	-17.0	29.9	3	10	5/5				12x53	04/15/08	





## PILE DRIVING SUMMARY

Client: Chapin Reality  
 General Contractor: Ledgewood Construction, Inc.  
 Pile Contractor: H.B. Fleming Contracting and Engineering, Inc.  
 Pile Hammer: APE D-19 Single Action Diesel Hammer  
 Pile Type #1: HP 12 x 53 ASTM A-572 Grade 50 with Cast Driving Tip  
 Pile Type #2: HP 10 x 57 ASTM A-572 Grade 50 with Cast Driving Tip

SWCE Job # 06-0726.2  
 Project: Marriott Residence Inn  
 Location: Fore Street Portland, Maine  
 Rated Energy (ft-lbs): 42, 800 ft-lbs  
 Design Capacity: 50-tons  
 Design Capacity: 75-tons

Pile #	Total Driven Length (feet)	Total Cut Off length (feet)	Tip Elevation (feet)	In-place Length (feet)	Final Set (blows/inch)						Pile Type	Date Final Set	Remarks
					4	5	7	7/.75	8	9			
191	60.6	33.4	-13.0	27.2	4	4	5	5	7	7/.75	12x53	04/09/08	
192	33.7	6.5	-13.0	27.2	3	4	5	5	7	8/.75	12x53	04/09/08	
193	36.6	11.7	-10.7	24.9	6	10/.5					12x53	04/09/08	
194	60.5	30.0	-16.7	30.5	6	6	10/.75				10x57	04/08/08	
195	60.6	29.3	-17.5	31.3	3	5	9	9/.5			10x57	04/09/08	
196	60.7	29.9	-17.0	30.8	3	5	7	8			12x53	04/14/08	
197	60.7	30.0	-16.9	30.7	3	10/.75					12x53	04/14/08	
198	60.5	30.0	-17.6	30.5	5	6	9	10/.75			10x57	04/14/08	
199	34.1	5.1	-16.1	29.0	5	9	9	9/.75			10x57	04/14/08	
200	60.5	33.8	-13.8	26.7	5	8	9	9	9		10x57	04/14/08	
201	30.3	3.2	-14.2	27.1	4	5	10/.5				10x57	04/14/08	
202	60.5	27.8	-19.8	32.7	8	7	7	8	9	12	10x57	04/16/08	
203	60.5	30.1	-17.5	30.4	10	9	9	9/.75			10x57	04/16/08	Splice on #204 UT tested by QAL.
204	47.2	12.9	-21.4	34.3	7	8	9	10			10x57	04/22/08	Spliced at elevation 7.0-feet.
205	60.5	26.3	-21.3	34.2	5	5	6	9	12		10x57	04/16/08	
206	43.0	20.9	-7.9	22.1	10/.5						12x53	04/30/08	

Subtotal 10 x 57 = 2306.1 feet  
 Subtotal 12 x 53 = 3164.6 feet  
**Total In-place = 5470.7 feet**