

(BR-2-75) Pile Driving Log



Project No: 10-3000	County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R		
SFN:		
Total Drive Length: 153' 6"		
Substructure Unit: PIER 5	Date Driven: 5-13	Pile Number: 2-11
Pile Type: HP 18x204	Wall Thickness: 1 1/8"	Hammer: D-20
Required Ultimate Bearing:	Batter: .	Drop Hammer Ram Weight: 17,648
Cutoff Elevation: 567.58	Ground Elevation: 579.68	No. of Splices: 3

START 3:50

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100	18	Visually Inspected	134	30		# 147	12	
101	17		135	20		1"	12	
102	18		136	21		2"	13	
103	19		137	22		3"	12	
104	19		138	28		4"	14	
105	20		139	30		5"	13	
106	21		140	30		6"	14	
107	21		141	30		7"	12	
108	22		142	30		8"	13	
109	22		143	34		9"	12	
110	25		144	36		10"	12	
111	27		145	38	5-13	11"	13	
112	27		146	40	END 4:25	# 149	14	
113	27		147	144	START 5:17	1"	13	
114	28		148		END 11:29	2"	12	
115	28		149			3"	11	
116	27		150			4"	12	
117	26		151		Visually Inspected	5"	11	
118	26		152			6"	13	
119	26		153			7"	12	
120	25		154			8"	13	
121	25		155			9"	12	
122	23		156			10"	12	
123	21		157			11"	12	
124	22		158			# 150	13	
125	21		159			1"	12	
126	19		160			2"	13	
127	22		161			3"	15	
128	20		162			4"	12	
129	22		163			5"	12	
130	23		164			6"	10	
131	22		165			7"	11	
132	21		166			8"	13	
133	21		167			9"	13	

Effective Date: 2-14-2011

Revised Date: 2-14-2011

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(BR-2-75) Pile Driving Log



Project No: 10-3000	County-Route-Section: CUY-90-14.90
Bridge No: CUY-90-1651R	
SFN:	

Substructure Unit: <i>Pile 3</i>	Date Driven: <i>5-17-11</i>	Pile Number: <i>211</i>
Pile Type: <i>HP 28x204</i>	Wall Thickness: <i>1 1/8"</i>	Hammer: <i>D-80</i>
Required Ultimate Bearing: <i>2867</i>	Batter: <i>—</i>	Drop Hammer Ram Weight: <i>17,000</i>
Cutoff Elevation: <i>507.58</i>	Ground Elevation: <i>579.68</i>	No. of Splices: <i>3</i>

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
10"	12		8"			6"		
11"	14		9"			7"		
# 151	13		10"			8"		
1"	13		11"			9"		
2"	12		#			10"		
3"	13		1"			11"		
4"	14		2"			#		
5"	12		3"			1"		
6"	13		4"			2"		
7"	13		5"			3"		
8"	11		6"			4"		
9"	12		7"			5"		
10"	11		8"			6"		
11"	10		9"			7"		
# 152	10		10"			8"		
1"	10		11"			9"		
2"	11		#			10"		
3"	12		1"			11"		
4"	11		2"			#		
5"	11		3"			1"		
6"	11		4"			2"		
7"	12		5"			3"		
8"	11		6"			4"		
9"	11		7"			5"		
10"	12		8"			6"		
11"	12		9"			7"		
# 153	12		10"			8"		
1"	12		11"			9"		
2"	13		#			10"		
3"	15		1"			11"		
4"	18		2"			#		
5"	21		3"					
6"	21	36.7 SECS	4"					
7"		= 11.5" STROKE	5"					

Effective Date: 2-14-2011

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END AT  
11:00 A.M.

PG. 2

Walsh Form 28

(BR-2-75) Pile Driving Log



Project No: 10-2000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 154'3"			
Substructure Unit: <u>Pier 5</u>	Date Driven: <u>5-13</u>   <u>5-17</u>	Pile Number: <del>2-12</del> <u>2-12</u>	
Pile Type: <u>HP 18 x 204</u>	Wall Thickness: <u>1 1/2</u>	Hammer: <u>D-80</u>	
Required Ultimate Bearing: <u>2867</u>	Batter: <u>→</u>	Drop Hammer Ram Weight: <u>17,640 lbs</u>	
Cutoff Elevation: <u>567.58</u>	Ground Elevation: <u>577.68</u> <small>EXISTING W/ ELEV.</small>	No. of Splices: <u>3</u>	

START  
2:30

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100	20	<del>20</del>	134	20		# 151		
101	20		135	21		1"	11	
102	19		136	21		2"	12	
103	20		137	22		3"	10	
104	20		138	22		4"	9	
105	20		139	23		5"	8	
106	22		140	24		6"	9	
107	23		141	23		7"	9	
108	21		142	24		8"	10	
109	24		143	27		9"	10	
110	25		144	27		10"	9	
111	26		145	34		11"	9	
112	24		146	34	END 5:00 START 5:17 11:25	# 152	10	
113	24		147	49		1"	10	
114	23		148	96		2"	9	
115	23		149	111		3"	9	
116	23		150	114		4"	9	
117	23		151	127	INSPECTED USUALLY	5"	8	
118	22		152			6"	10	
119	21		153			7"	9	
120	21		154			8"	9	
121	20		155			9"	9	
122	20		156			10"	11	
123	20		157			11"	16	
124	19		158			# 153	11	
125	18		159			1"	10	
126	18		160			2"	11	
127	17		161			3"	11	
128	15		162			4"	11	
129	17		163			5"	15	
130	17		164	17' Splice ADDED		6"	14	
131	19		165	Splice FROM PIER 9		7"	14	
132	21		166	WT REFS		8"	14	
133	20		167			9"	14	

Effective Date: 2-14-2011  
Revised Date: 2-14-2011

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Walsh Form 28

(BR-2-75) Pile Driving Log



Project No: 10-3000	County-Route-Section: CUY-90-14.90
Bridge No: CUY-90-1651R	
SFN:	

Substructure Unit: <u>Box 5</u>	Date Driven: <u>5-17-11</u>	Pile Number: <u>2-12</u>
Pile Type: <u>HP 18x204</u>	Wall Thickness: <u>1 1/2"</u>	Hammer: <u>D-80</u>
Required Ultimate Bearing: <u>200T</u>	Batter: <u>---</u>	Drop Hammer Ram Weight: <u>17,000</u>
Cutoff Elevation: <u>567.58</u>	Ground Elevation: <u>579.68</u>	No. of Splices: <u>3</u>

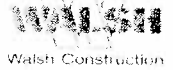
Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
10"	15		8"			6"		
11"	17		9"			7"		
# 15	20		10"			8"		
1"	20	33.6 SPS.	11"			9"		
2"	20		#			10"		
3"	21	37 SPS.	1"			11"		
4"		> 11.5' STROKES	2"			#		
5"			3"			1"		
6"		END=12:00	4"			2"		
7"			5"			3"		
8"			6"			4"		
9"			7"			5"		
10"			8"			6"		
11"			9"			7"		
#			10"			8"		
1"			11"			9"		
2"			#			10"		
3"			1"			11"		
4"			2"			#		
5"			3"			1"		
6"			4"			2"		
7"			5"			3"		
8"			6"			4"		
9"			7"			5"		
10"			8"			6"		
11"			9"			7"		
#			10"			8"		
1"			11"			9"		
2"			#			10"		
3"			1"			11"		
4"			2"			#		
5"			3"					
6"			4"					
7"			5"					

Effective Date: 2-14-2011

Revised Date: 2-14-2011

PG. 2

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 56'			
Substructure Unit:	Date Driven:	Pile Number:	
Pile Type:	Wall Thickness:	Hammer:	
Required Ultimate Bearing: 287L	Batter:	Drop Hammer Ram Weight:	
Cutoff Elevation:	Ground Elevation:	No. of Splices:	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100	11		134	15		# 153		
101	15		135	15		1"	7	
102	13		136	14		2"	6	
103	12		137	12		3"	6	
104	11		138	17		4"	8	
105	12		139	11		5"	7	
106	11		140	13		6"	7	
107	11		141	11		7"	7	
108	11		142	11		8"	7	
109	20		143	11		9"	7	
110	13		144	11		10"	8	
111	20		145	20		11"	7	
112	11		146	33		# 151	8	
113	11		147	41		1"	7	
114	11		148	46		2"	7	
115	11		149	47		3"	8	
116	11		150	44		4"	7	
117	11		151	37		5"	7	
118	11		152	37		6"	8	
119	12		153			7"	8	
120	11		154			8"	8	
121	11		155			9"	7	
122	11		156			10"	9	
123	11		157			11"	8	
124	11		158			# 158	10	
125	11		159			1"	8	
126	11		160			2"	7	
127	11		161			3"	7	
128	11		162			4"	7	
129	11		163			5"	12	
130	11		164			6"	12	
131	11		165			7"	12	
132	11		166			8"	14	
133	11		167			9"	17	

Effective Date: 2-14-2011  
 Revised Date: 2-14-2011

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(BR-2-75) Pile Driving Log



Project No: 10-3000	County-Route-Section: CUY-90-14.90
Bridge No: CUY-90-1651R	
SFN:	

Substructure Unit: <u>Page 5</u>	Date Driven: <u>5-12-11</u>	Pile Number: <u>2-13</u>
Pile Type: <u>HP 18x204</u>	Wall Thickness: <u>1/8"</u>	Hammer: <u>D-80</u>
Required Ultimate Bearing: <u>2067</u>	Batter: <u>—</u>	Drop Hammer Ram Weight: <u>17,000</u>
Cutoff Elevation: <u>514.58</u>	Ground Elevation: <u>519.68</u>	No. of Splices: <u>3</u>

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
10"	20		8"			6"		
11"	18		9"			7"		
# 15"	20	33 SFL	10"			8"		
1"	21		11"			9"		
2"	20	35 SFL	#			10"		
3"		20 SFL = 11.5' STROKE	1"			11"		
4"			2"			#		
5"		END DRIVE	3"			1"		
6"		TIME 10:40	4"			2"		
7"			5"			3"		
8"			6"			4"		
9"			7"			5"		
10"			8"			6"		
11"			9"			7"		
#			10"			8"		
1"			11"			9"		
2"			#			10"		
3"			1"			11"		
4"			2"			#		
5"			3"			1"		
6"			4"			2"		
7"			5"			3"		
8"			6"			4"		
9"			7"			5"		
10"			8"			6"		
11"			9"			7"		
#			10"			8"		
1"			11"			9"		
2"			#			10"		
3"			1"			11"		
4"			2"			#		
5"			3"					
6"			4"					
7"			5"					

Effective Date: 2-14-2011

Revised Date: 2-14-2011

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 156' 5"			
Substructure Unit: <del>Pier 5</del> LT	Date Driven: 5-12 5-18-11	Pile Number: 2-14	
Pile Type: <del>HP 18 x 204</del>	Wall Thickness: 1 1/2"	Hammer: D-80	
Required Ultimate Bearing: 2876	Batter: —	Drop Hammer Ram Weight: 17,440	
Cutoff Elevation: 567.58	Ground Elevation: 579.68 SYSTEMS	No. of Splices: 3	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
<del>100</del>	<del>13</del>	<del>Visually Inspected</del>	134	17		# 154		
101	15		135	18		1"	7	
102	14		136	19		2"	10	
103	14		137	21		3"	11	
104	15		138	20		4"	11	
105	15		139	20		5"	10	
106	14		140	20		6"	11	
107	13		141	21		7"	9	
108	15		142	20		8"	10	
109	18		143	22		9"	10	
110	17		144	21		10"	9	
111	17	END 3:45	145	20		11"	8	
112	17	START	146	36	START 10:55	# 155	9	
113	17		147	38		1"	10	
114	17		148	39		2"	9	
115	17	<del>END</del>	149	47		3"	11	
116	16		150	49	visually inspected	4"	9	
117	15		151	52		5"	9	
118	15		152	63		6"	10	
119	14		153	86		7"	9	
120	14		154	102		8"	9	
121	14		155			9"	9	
122	13		156			10"	10	
123	14		157			11"	10	
124	13		158			# 156	10	
125	14		159			1"	10	
126	16		160			2"	12	
127	17		161			3"	14	
128	17		162			4"	21	
129	18		163		20' Pile EXT	5"	21 @ 30.34 SEC per inch	
130	18		164		Added for 3 <sup>rd</sup>	6"	= 11.5 > STROKE	
131	19		165		SPLICE	7"	END 11:15	
132	17		166			8"		
133	15		167			9"		

Effective Date: 2-14-2011  
 Revised Date: 2-14-2011

X

Walsh Form 28

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 155' 1"			
Substructure Unit: <del>Piles</del>	Date Driven: 5-10-11	Pile Number: 2-15	
Pile Type: HP 18x204	Wall Thickness: 1 1/2"	Hammer: D-30	
Required Ultimate Bearing: 2370	Batter: _____	Drop Hammer Ram Weight: 17,440lb	
Cutoff-Elevation: 507.50	Ground Elevation: 579.68	No. of Splices: 3	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100	18	VISUALLY INSPECTED	134	18		# 151		
101	18		135	18		1"	7	
102	18		136	19		2"	7	
103	19		137	19		3"	7	
104	18		138	18		4"	7	
105	19		139	19		5"	7	
106	19		140	20		6"	7	
107	20		141	20		7"	7	
108	21		142	20		8"	8	
109	21		143	21		9"	9	
110	22		144	21		10"	8	
111	22		145	21		11"	8	
112	23		146	22	stroke 9.50	# 152	8	
113	23		147	53		1"	8	
114	23		148	57		2"	9	
115	23		149	61		3"	11	
116	23		150	79	VISUALLY INSPECTED	4"	10	
117	23		151	87		5"	13	
118	24		152			6"	12	
119	23		153			7"	9	
120	22		154			8"	8	
121	22		155			9"	7	
122	21		156			10"	8	
123	21		157			11"	8	
124	20		158			# 153	8	
125	20		159			1"	8	
126	20		160			2"	9	
127	18		161			3"	8	
128	18		162			4"	8	
129	17		163			5"	9	
130	17		164			6"	10	
131	17		165			7"	9	
132	17		166			8"	9	
133	18		167			9"	9	

Effective Date: 2-14-2011  
 Revised Date: 2-14-2011

X



(BR-2-75) Pile Driving Log



Project No: 10-3000	County-Route-Section: CUY-90-14.90
Bridge No: CUY-90-1651R	
SFN:	

Substructure Unit: <u>Pier 5</u>	Date Driven: <u>5-17-11</u>	Pile Number: <u>2-15</u>
Pile Type: <u>HP 18x204</u>	Wall Thickness: <u>1 1/8"</u>	Hammer: <u>D-80</u>
Required Ultimate Bearing: <u>2867</u>	Batter: <u>-</u>	Drop Hammer Ram Weight: <u>17,460 lbs</u>
Cutoff Elevation: <u>507.58</u>	Ground Elevation: <u>579.68</u>	No. of Splices: <u>3</u>

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
10"	9		8"			6"		
11"	10		9"			7"		
# 154	9		10"			8"		
1"	10		11"			9"		
2"	10		#			10"		
3"	10		1"			11"		
4"	11		2"			#		
5"	11		3"			1"		
6"	12		4"			2"		
7"	12		5"			3"		
8"	12		6"			4"		
9"	16		7"			5"		
10"	20		8"			6"		
11"	21	35.5 sgs	9"			7"		
# 155	22	36	10"			8"		
1"	21	34 sgs	11"			9"		
2"		Visual	#			10"		
3"		stroke & visually	1"			11"		
4"		inspected stroke	2"			#		
5"	21 bpi	50 sgs	3"			1"		
6"	= 11.5'	stroke	4"			2"		
7"			5"			3"		
8"			6"			4"		
9"			7"			5"		
10"			8"			6"		
11"			9"			7"		
#			10"			8"		
1"			11"			9"		
2"			#			10"		
3"			1"			11"		
4"			2"			#		
5"			3"					
6"			4"					
7"			5"					

Effective Date: 2-14-2011  
 Revised Date: 2-14-2011

*Handwritten initials/signature*

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 155'			
Substructure Unit: PILE 5	Date Driven: 5-13	Pile Number: 2-16	
Pile Type: HP 18x204	Wall Thickness: 14"	Hammer: D-80	
Required Ultimate Bearing: 2376	Batter:	Drop Hammer Ram Weight: 13,600 lbs	
Cutoff Elevation: 567.60	Ground Elevation: 579.68	No. of Splices: 3	

12.50

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100	WELD VISUALLY INSPECTED		134	13		# 1582		
101			135	15		1"	9	
102	9		136	14		2"	9	
103	10		137	15		3"	7	1
104	11		138	16		4"	7	
105	11		139	18		5"	7	
106	11		140	17		6"	8	
107	13		141	19		7"	9	
108	13		142	19		8"	9	
109	18		143	22		9"	10	
110	19		144	24		10"	9	
111	18		145	31		11"	9	
112	18		146	31	END 1:10 5/11	# 1583	9	
113	19		147	49	START 5-17	1"	9	
114	15		148	57	1.5"	2"	8	
115	17		149	69		3"	9	
116	18		150	73		4"	9	
117	18		151	91	INSPECTED VISUALLY	5"	9	
118	18		152	103		6"	11	
119	18		153			7"	11	
120	18		154			8"	10	
121	18		155			9"	11	
122	17		156			10"	10	
123	14		157			11"	10	
124	15		158			# 1584	10	
125	15		159			1"	10	
126	13		160			2"	10	
127	14		161			3"	10	
128	14		162			4"	11	
129	15		163			5"	11	
130	14		164			6"	14	
131	14		165			7"	14	
132	12		166			8"	11	
133	10		167			9"	16	

Effective Date: 2-14-2011  
Revised Date: 2-14-2011

X

Walsh Form 28

# (BR-2-75) Pile Driving Log



Project No: 10-3000	County-Route-Section: CUY-90-14.90
Bridge No: CUY-90-1651R	
SFN:	

Substructure Unit: <u>2505 S</u>	Date Driven: <u>5-17-11</u>	Pile Number: <u>2-16</u>
Pile Type: <u>HP 18x204</u>	Wall Thickness: <u>1 1/8"</u>	Hammer: <u>D-80</u>
Required Ultimate Bearing: <u>200k</u>	Batter: _____	Drop Hammer Ram Weight: <u>17,000 lb</u>
Cutoff Elevation: <u>567.50</u>	Ground Elevation: <u>579.68</u> <small>ESTIMATE ELEV.</small>	No. of Splices: <u>3</u>

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
10"	20	32 psi	8"			6"		
11"	23	37 psi	9"			7"		
# 155	23	40 psi	10"			8"		
1"		• • 23 bps	11"			9"		
2"		" 115' stroke #	1"			10"		
3"			2"			11"		
4"			3"			#		
5"			4"			1"		
6"		END 1:40pm	5"			2"		
7"		DRIVE COMPLETE	6"			3"		
8"			7"			4"		
9"			8"			5"		
10"			9"			6"		
11"			10"			7"		
#			11"			8"		
1"			#			9"		
2"			1"			10"		
3"			2"			11"		
4"			3"			#		
5"			4"			1"		
6"			5"			2"		
7"			6"			3"		
8"			7"			4"		
9"			8"			5"		
10"			9"			6"		
11"			10"			7"		
#			11"			8"		
1"			#			9"		
2"			1"			10"		
3"			2"			11"		
4"			3"			#		
5"			4"					
6"			5"					
7"								

Effective Date: 2-14-2011  
 Revised Date: 2-14-2011

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 157' 4"			
Substructure Unit: PIER 5	Date Driven: 5-12-11 5-18-11	Pile Number: 2-17	
Pile Type: HP 18x204	Wall Thickness: 1 1/2"	Hammer: D-80	
Required Ultimate Bearing: 2876	Batter: —	Drop Hammer Ram Weight: 17,440	
Cutoff Elevation: 567.58	Ground Elevation: 579.48 (EXISTING ELEV)	No. of Splices: 3	

START  
1:30

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100	18		134	15		# 153		
101	18		135	17		1"	7	
102	18		136	17		2"	6	
103	17		137	15		3"	7	
104	19		138	16		4"	7	
105	18		139	16		5"	6	
106	17		140	18		6"	7	
107	19		141	19		7"	8	
108	19		142	20		8"	7	
109	19		143	21		9"	6	
110	19		144	24	5-12 END 2120	10"	8	
111	20	BNP	1155 145	26	START 5-18	11"	8	
112	20		146	39	8.55	# 154	9	
113	19		147	41		1"	8	
114	18		148	47		2"	8	
115	17		149	52		3"	8	
116	19		150	58		4"	7	
117	17	WELD	151	60	VISUALLY INSPECTED	5"	9	
118	17		152	60		6"	8	
119	15		153	71		7"	9	
120	16		154			8"	9	
121	15		155			9"	9	
122	15		156			10"	8	
123	16		157			11"	9	
124	15		158			# 155	10	
125	15		159			1"	9	
126	15		160			2"	10	
127	15		161			3"	9	
128	13		162	15' splice		4"	10	
129	13		163			5"	9	
130	13		164			6"	9	
131	13		165			7"	9	
132	12		166			8"	9	
133	13		167			9"	10	

Effective Date: 2-14-2011

Revised Date: 2-14-2011

X

Walsh Form 28

# (BR-2-75) Pile Driving Log



Project No: 10-3000	County-Route-Section: CUY-90-14.90
Bridge No: CUY-90-1651R	
SFN:	

Substructure Unit: <u>PIER 5</u>	Date Driven: <u>5-18-11</u>	Pile Number: <u>2-17</u>
Pile Type: <u>HP18x204</u>	Wall Thickness: <u>1 1/2"</u>	Hammer: <u>D-80</u>
Required Ultimate Bearing: <u>2867</u>	Batter: <u>—</u>	Drop Hammer Ram Weight: <u>17,640</u>
Cutoff Elevation: <u>567.58</u>	Ground Elevation: <u>579.68</u>	No. of Splices: <u>30</u>

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
10"	10		8"			6"		
11"	9		9"			7"		
# 156	10		10"			8"		
1"	11		11"			9"		
2"	11		#			10"		
3"	12		1"			11"		
4"	12		2"			#		
5"	11		3"			1"		
6"	12		4"			2"		
7"	12		5"			3"		
8"	13		6"			4"		
9"	13		7"			5"		
10"	13		8"			6"		
11"	13		9"			7"		
# 157	14		10"			8"		
1"	14		11"			9"		
2"	18		#			10"		
3"	24		1"			11"		
4"	60+ Blows < 1"		2"			#		
5"	REFUSAL		3"			1"		
6"	VISUALLY WITHDREW		4"			2"		
7"	PILE HAMMER		5"			3"		
8"	STROKE WAS		6"			4"		
9"	12' +		7"			5"		
10"	PILE DID NOT		8"			6"		
11"	MORE HEAVY STROKE		9"			7"		
#	60+ X'S		10"			8"		
1"			11"			9"		
2"			#			10"		
3"			1"			11"		
4"			2"			#		
5"			3"					
6"			4"					
7"			5"					

Effective Date: 2-14-2011  
 Revised Date: 2-14-2011

(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 155' 11"			
Substructure Unit: Pier 5 L	Date Driven: 5-12-11	Pile Number: 2-18	
Pile Type: HP 18x204	Wall Thickness:	Hammer: D-80	
Required Ultimate Bearing: 2876	Batter: —	Drop Hammer Ram Weight: 17,640	
Cutoff Elevation: 567.53	Ground Elevation: 579.63 (EXISTING ELEV.)	No. of Splices: 3	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100	26	Visually Inspected	134	18		# 154		
101	26		135	19		1"	8	
102	26		136	15	← SET TO 4	2"	9	
103	28		137	16	WAS ON 2	3"	9	
104	28		138	17	(TRISTLE)	4"	10	
105	30		139	20		5"	10	
106	29		140	23		6"	11	
107	30		141	27		7"	11	
108	28		142	29		8"	12	
109	28		143	30		9"	11	
110	30		144	32		10"	12	
111	26	9:30	145	35		11"	10	
112	28	START 28:35	146	39		# 155	11	
113	29		147	37		1"	10	
114	30		148	50		2"	9	
115	29		149	50		3"	10	
116	29	Weld	150	55	Visually Inspected	4"	13	
117	26		151	64		5"	12	
118	24		152	74		6"	13	
119	21		153	83		7"	15	
120	20		154	99		8"	18	
121	20		155	3 <sup>RD</sup>	SPICE	9"	20	
122	21		156	is 15'	PIECE	10"	24	40 SEC
123	20		157	FROM	PIER 9	11"	24	40 SEC.
124	20		158	CUT-OFF		# 156		VERTICAL REFUSAL
125	21		159			1"		2 CONSECUTIVE
126	19		160			2"		CONSECUTIVE "S
127	18		161			3"		Ø 11.5' OR GREATER
128	18		162			4"		STROKE
129	18		163			5"		42 SEC'S PER INCH
130	20		164			6"		Ø 11.5' OR GREATER
131	18		165			7"		
132	19		166			8"		END PILE @ 3:05
133	19		167			9"		

Effective Date: 2-14-2011  
 Revised Date: 2-14-2011

X

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(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 158'			
Substructure Unit: PIER 5	Date Driven: 5-16-11	Pile Number: 2-1A	
Pile Type: HP 18x204	Wall Thickness: 1 1/2"	Hammer: D-80	
Required Ultimate Bearing: 2870	Batter: —	Drop Hammer Ram Weight: 17,640 lb.	
Cutoff Elevation: 567.58	Ground Elevation: 579.68	No. of Splices: 3	

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100	18		134	14		# 156		
101	18		135	14		1"	7	
102	18		136	15		2"	6	
103	18		137	15		3"	7	
104	19		138	14		4"	8	
105	18		139	15		5"	6	
106	19		140	17		6"	7	
107	17		141	17		7"	7	
108	20		142	17		8"	7	
109	22		143	18		9"	7	
110	23		144	17		10"	7	
111	23		145	18		11"	6	
112	23		146	19		# 157	7	
113	22		147	19	START 9:00 AM	1"	7	
114	21		148	35		2"	8	
115	21		149	46		3"	9	
116	20	WELD	150	46	VISUALLY INSPECTED	4"	8	
117	20		151	46		5"	9	
118	19		152	63		6"	10	
119	19		153	67		7"	13	
120	19		154	68		8"	13	
121	19		155	71		9"	15	
122	17		156	77		10"	21	
123	17		157			11"	22	36 sec.
124	17		158			# 158	22	37.5 sec. >
125	16		159			1"		= 11.5' STRIKE
126	15		160			2"		OR ?
127	14		161			3"		
128	15		162			4"		END 9:25
129	15		163			5"		
130	16		164			6"		PILE COMPLETED
131	15		165	17' SPLICE ADDED		7"		
132	15		166	FROM PILE A W/ SPLICE		8"		
133	15		167			9"		

Effective Date: 2-14-2011

Revised Date: 2-14-2011

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(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 157' 8"			
Substructure Unit: PIER 5	Date Driven: 5-13 / 5-18	Pile Number: 2-20	
Pile Type: HP 18x204	Wall Thickness: 1 1/8	Hammer: D-80	
Required Ultimate Bearing: 2876	Batter: —	Drop Hammer Ram Weight: 17,640 lb.	
Cutoff Elevation: 567.58	Ground Elevation: 579.68 <small>EXISTING ELEV</small>	No. of Splices: 3	

13  
20  
16  
12

START  
11:05

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100	16		134	11		# 155		
101	15		135	13		1"	5	
102	16		136	14		2"	5	
103	16		137	15		3"	6	
104	16		138	15		4"	5	
105	17		139	17		5"	6	
106	17		140	18		6"	5	
107	16		141	21		7"	6	
108	16		142	21		8"	6	
109	17		143	20		9"	6	
110	16		144	21		10"	7	
111	17		145	20		11"	8	
112	17		146	46		# 156	7	
113	16		147	41	END 5:18 START 7:45	1"	7	
114	18		148	42		2"	7	
115	17		149	43		3"	6	
116	17		150	50	WELD VISUAL INSPECTED	4"	7	
117	18		151	50		5"	6	
118	16		152	52		6"	6	
119	15		153	52		7"	7	
120	15		154	60		8"	7	
121	14		155			9"	7	
122	12		156			10"	7	
123	12		157			11"	7	
124	19		158			# 157	6	
125	14		159			1"	8	
126	16		160	15' SPACE		2"	8	
127	14		161	ADDED FROM		3"	13	
128	14		162	PIER 9 CUTOFFS		4"	17	
129	18		163			5"	20	
130	13		164	END DRIVE TIME		6"	20	33sec
131	12		165	8:05		7"	22	36sec
132	11		166			8"	60+ BLOWS < 1"	
133	11		167			9"	REFUSAL	

Effective Date: 2-14-2011  
Revised Date: 2-14-2011

PILE COMPLETE

X

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(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 156' 7"			
Substructure Unit:	Date Driven: 5-12-11 / 5-18-11	Pile Number: <del>2704</del> 2721	
Pile Type: HP 18x204	Wall Thickness: 1 1/2"	Hammer: D-30	
Required Ultimate Bearing: 2870	Batter: —	Drop Hammer Ram Weight: 17,040	
Cutoff Elevation: 567.58	Ground Elevation: 579.68 <sup>EXISTING</sup>	No. of Splices: 3	

START  
11:30

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100	16	WELD VISUALLY INSPECTED	134	14		# 156		
101	16		135	14		1"	8	
102	17		136	13		2"	8	
103	16		137	15		3"	9	
104	18		138	17		4"	12	
105	17		139	17		5"	18	
106	18		140	20		6"	44	
107	18		141	21		7"	60+ Blows 4"	
108	17		142	22		8"	REFUSAL	
109	18		143	21		9"	VISUALLY SEEN THAT	
110	19		144	23		10"	STROKE IS 11.5' +	
111	18	11:50 END	145	21		11"	(12' Approx) 11/10	
112	19	START	146	22	5/18 START	#	END DRIVE	
113	17		147	37	8:20	1"	TIME 8:40	
114	17		148	42		2"		
115	18		149	42		3"		
116	18		150	44		4"		
117	18	WAVE WELD	151	46	INSPECTED WELD VISUALLY	5"		
118	16		152	49		6"		
119	17		153	56		7"		
120	16		154	68		8"		
121	15		155	76		9"		
122	14		156			10"		
123	15		157			11"		
124	14		158			#		
125	14		159			1"		
126	14		160	3RD SPLICE		2"		
127	14		161	IS 14'		3"		
128	13		162	CUT-OFF FROM		4"		
129	13		163	PIECE 9		5"		
130	14		164			6"		
131	15		165			7"		
132	16		166			8"		
133	14		167			9"		

Effective Date: 2-14-2011  
Revised Date: 2-14-2011

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(BR-2-75) Pile Driving Log



Project No: 10-3000		County-Route-Section: CUY-90-14.90	
Bridge No: CUY-90-1651R			
SFN:			
Total Drive Length: 161' 2"			
Substructure Unit: <i>PIER 5 TEST PILE</i>	Date Driven: 5-11-11	Pile Number: 2-22	
Pile Type: <i>HP 18x201</i>	Wall Thickness: <i>1/2"</i>	Hammer: <i>D 30</i>	
Required Ultimate Bearing: <i>2976 KIP</i>	Batter: <i>---</i>	Drop Hammer Ram Weight: <i>17,640</i>	
Cutoff Elevation: <i>567.58</i>	Ground Elevation: <i>579.68 (EXISTING)</i>	No. of Splices: <i>3</i>	

2  
111  
111  
43

Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure	Penetration	Blows/Ft	Stroke or Pressure
100			134	13		# 160		
101	16		135	13		1"	/	
102	15		136	12		2"	/	
103	16		137	12		3"	/	
104	16		138	15		4"	/	
105	15		139	17		5"	15	
106	14		140	21		6"	17	
107	14		141	21		7"	20	
108	14		142	22		8"	21	
109	15		143	22		9"	21	31 SECS 875
110	16		144	22		10"	22	36 SECS
111	16		145	23		11"	22	36 sec
112	16	START 4:51	146	22		# 101	22	36 sec
113	16		147	22		1"	22	37 SECS
114	16		148	23		2"	62 AT 1/2"	"REFUSAL"
115	16	SPlice in hammer	149	25	WELD VISUALLY INSPECTED	3"		
116	15		150	26		4"	END DRIVE AT 5:20	
117	15		151	29		5"		
118	15		152	36		6"		
119	14		153	40		7"		
120	14		154	44		8"		
121	14		155	43		9"		
122	13		156	49		10"		
123	13		157	58		11"		
124	13		158	67		#		
125	12		159	112		1"		
126	12		160	6204"	↑	2"		
127	12		161			3"		
128	11		162			4"		
129	11		163			5"		
130	11		164			6"		
131	10		165			7"		
132	13		166			8"		
133	12		167			9"		

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TEST PILE  
\* BR1 PILE