

# **Little Lake Shoreline Protection & Marsh Creation Project BA-37**

**SCI PROJECT NO. 116478**

## **POST CONSTRUCTION SURVEY REPORT**



**AUGUST 2007**

**Prepared for:**  
**Louisiana Department of Natural Resources**

**Prepared By:**  
Shaw Coastal, Inc.  
197 Elysian Drive  
Houma, Louisiana 70363



---

---

## **SURVEY REPORT**

---

---

### **TABLE OF CONTENTS**

---

---

Section 1	Methodology Report .....	Page 1
Section 2	Drawing Files.....	Page 4
Section 3	Survey Data.....	Page 5
Section 4	Field Notes .....	Page 6

#### List of Appendices

- A      Secondary Monument Data Sheet
- B      Survey Report and Data (CD-ROM)
- C      Land Surveyor's Certification

---

## **Section 1**

### **Methodology Report**

---

---

---

## **SECTION 1**

### **METHODOLOGY REPORT**

---

---

#### **DESCRIPTION**

This report details the procedures followed by Shaw Coastal Inc. to provide the Louisiana Department of Natural Resources, Coastal Restoration Division (LDNR/CRD) with required monitoring data to measure the elevation changes related to the marsh creation areas for the Little Lake Shoreline Protection/Dedicated Dredging Near Round Lake project (BA-37).

Services include an elevation survey along pre-determined transects to determine marsh elevations.

#### **LOCATION**

The Little Lake Shoreline Protection / Dedicated Dredging near Round Lake Project (BA-37) is a shoreline protection and marsh creation project located in the central Barataria Basin in Lafourche Parish, Louisiana. The Little Lake Shoreline Protection project area is located on the southwestern shoreline of Little Lake from Superior Canal to Plume Point. The Little Lake project area is generally bound by the East and West Forks of Bayou L'Ours and the southern shoreline of Little Lake from Plum Point westward to Breton Canal.

The site is accessible only by boat. The nearest boat launch is the Clovelly Farms on Clovelly Canal located in Cut Off, Louisiana.

The purpose of the project is to prevent erosion along approximately four (4) miles of Little Lake shoreline; create 488 acres of intertidal wetlands along the Little Lake shoreline; nourish and maintain 532 acres of intermediate marsh; and reduce the land-loss rates by 50% over the 20-year life of the project. The project consists of constructing a shoreline protection rock dike in open water along the shoreline of Little Lake and using dredged material from Little Lake to create/nourish intertidal marsh along the Little Lake shoreline. The project is sponsored by the United States Department of Commerce / National Ocean and Atmospheric Administration (NOAA) National Marine Fisheries Services (NMFS) and the Louisiana Department of Natural Resources (LDNR) under the Coastal Wetlands Planning, Protection, and Restoration Act (CWPPRA).

#### **PLANNING AND LAYOUT OF THE GPS SURVEY**

This scope of services involves the completion of a topographic survey along predetermined transects inside the Little Lake project (BA-37). The survey will provide data used to calculate elevation changes within the marsh creation areas.

## **TOPOGRAPHIC SURVEYS**

The points were surveyed utilizing Real Time Kinematic (RTK) surveying techniques. This survey will be referenced to the LDNR Louisiana Coastal Zone (LCZ) GPS Network. The LCZ Secondary Monuments to be used as the GPS reference station for this project is the BA-37-SM-01 and BA-37-SM-02 monuments. The latest summary sheet showing the most recent adjusted position and elevation for these monuments are in Appendix A.

The equipment that was used on this project was a Trimble 5700 RTK base station with a Trimble 5800 rover unit. The data was collected and stored on a Trimble TS Cell data collector. All survey data was recorded in LSZ NAD 83 feet (coordinates) and NAVD 88 feet (elevations).

On a daily basis the RTK base station was setup over a TBM (pt. no. 3) the base station used a fixed antennae height. Then the TBM and setup were then checked against a secondary monument prior to gathering data and again immediately after. At the end of each day the data was downloaded and processed through TGO (Trimble Geomatics Office) software. Once the survey data was downloaded into TGO and processed it was then exported to Land Development software.

Points were collected along predetermined transect lines and point locations as shown on the attached drawing (3 of 11).

## **QUALITY ASSURANCE PROCEDURES**

Two LDNR LCZ monuments (BA-37-SM-01 and BA-37-SM-02) were used for the surveys. These monuments were used as checks on a daily basis for RTK surveys.

---

## **Section 2**

### **Drawing Files**

---

---

---

## **SECTION 2**

### **DRAWING FILES**

---

---

Attached are eleven (11) drawing sheets created for the project area with all transects and elevation shots clearly labeled and plotted using the coordinates. On the plan view, the coordinate system that the drawing is referenced is the Louisiana State Plane Coordinates, South Zone, and the North American Datum of 1983 (NAD 83) in feet. Elevations are referenced to the North American Vertical Datum of 1988 (NAVD 88) in feet.

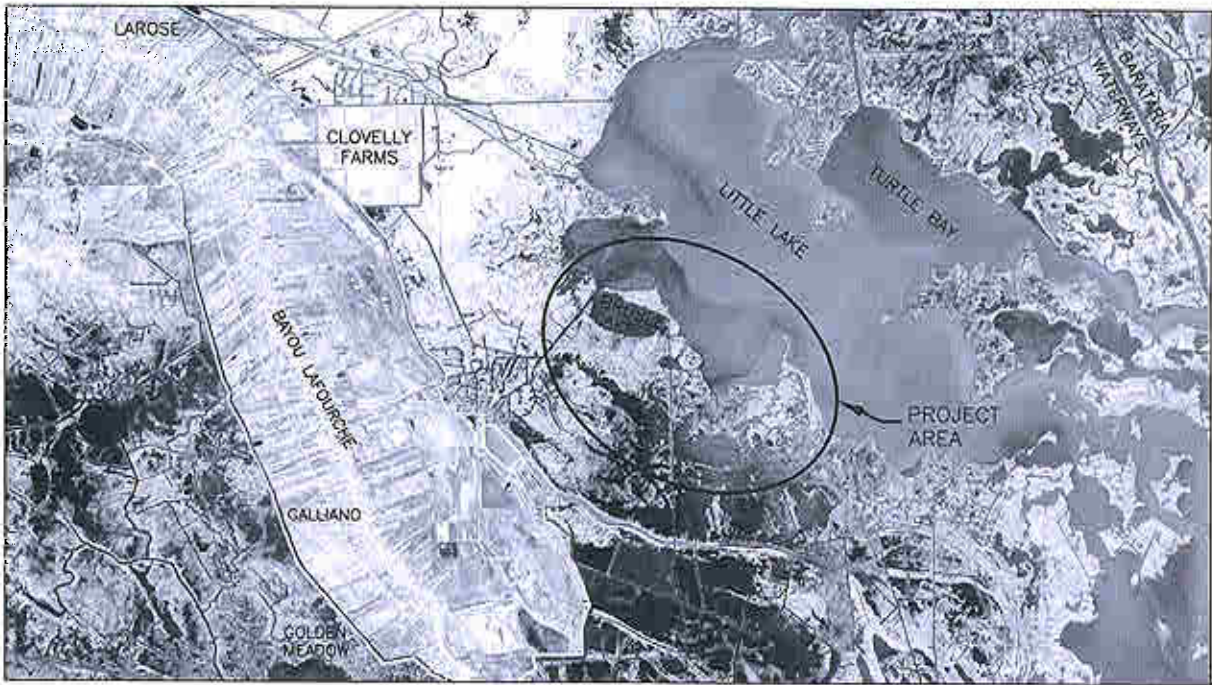
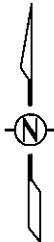
LITTLE LAKE SHORELINE PROTECTION  
AND MARSH CREATION

BA-37  
LAFOURCHE PARISH

POST CONSTRUCTION SURVEY  
AUGUST 2007

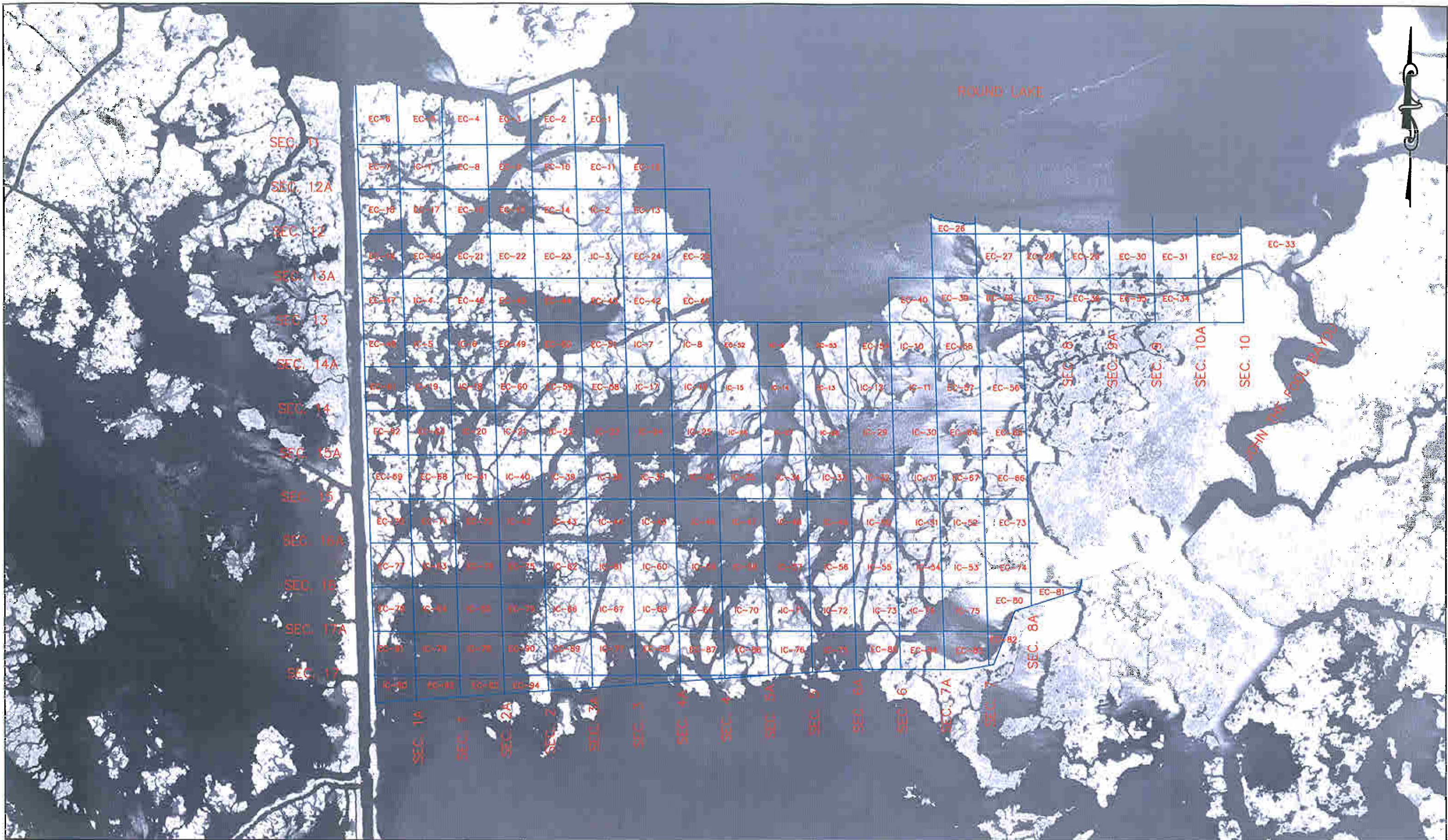
INDEX TO SHEETS


SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	MARSH TRANSECTION PLAN VIEW
3	PRE-CONSTRUCTION, AS-BUILT & 9 MONTH POST CONSTRUCTION SURVEY
4-11	CROSS SECTIONS



				LOUISIANA DEPARTMENT OF NATURAL RESOURCES COASTAL ENGINEERING DIVISION 617 NORTH 3RD STREET BATON ROUGE, LOUISIANA 70802		LITTLE LAKE SHORELINE PROTECTION AND MARSH CREATION STATE PROJECT NUMBER: BA-37 SCI. PROJECT NUMBER: 116478 APPROVED BY: JEFF PENA		TITLE SHEET DATE: AUGUST 2007 SHEET 1	
REV.	DATE	DESCRIPTION	BY	DRAWN BY: KARL SCHROEDER					





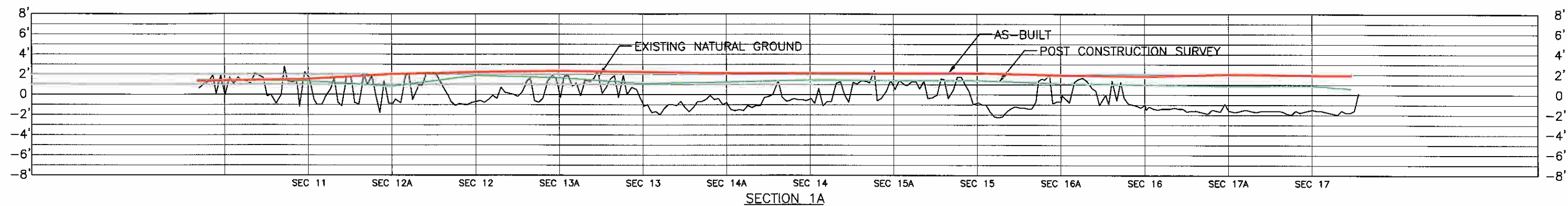
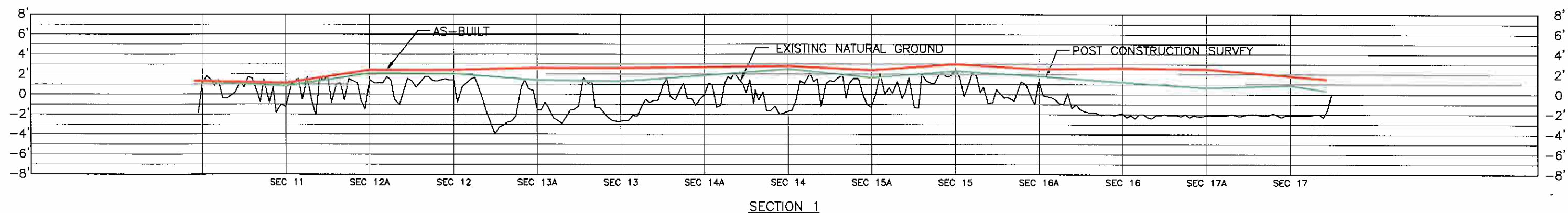
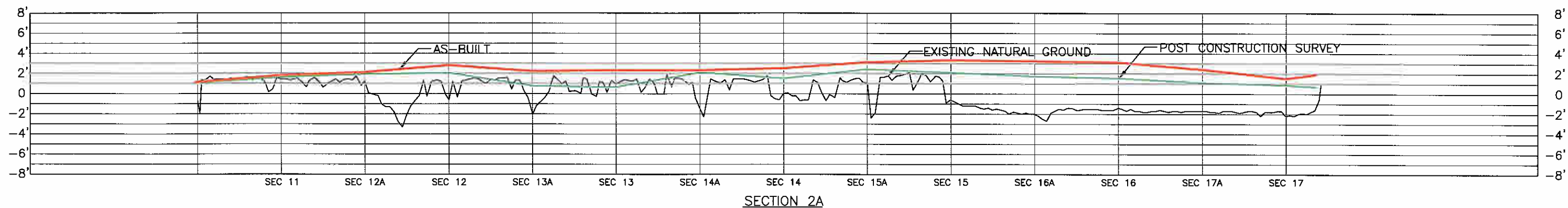
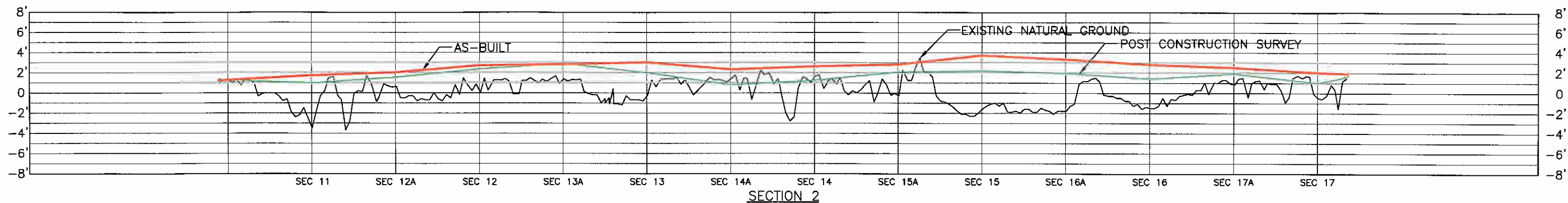
NOTES:						 <b>Shaw</b> Shaw Coastal, Inc.		FILE NAME: 116478	<b>MARSH TRANSECT PLAN VIEW</b>	<b>POST CONSTRUCTION SURVEY</b>	<b>SHEET NO.</b> <b>2</b> OF <b>11</b>
					SCI. NO.: 116478						
					DATE: 8/21/07						
					PLOT SCALE: 1"=1000'						
					DRAWN BY: KJS						
					APPROVED: JMP						
					MAP NO.						



FILE NAME: 116478 SCI. NO.: 116478 DATE: 8/21/07 PLOT SCALE: 1"=1000' DRAWN BY: KJS APPROVED: JMP MAP NO.	MARSH TRANSECT PLAN VIEW  POST CONSTRUCTION SURVEY	SHEET NO. <b>2</b> OF <b>11</b>
---	--	--







NOTES:				
	DATE	REVISIONS	DRAWN BY	APPROVED BY
		REVISIONS		



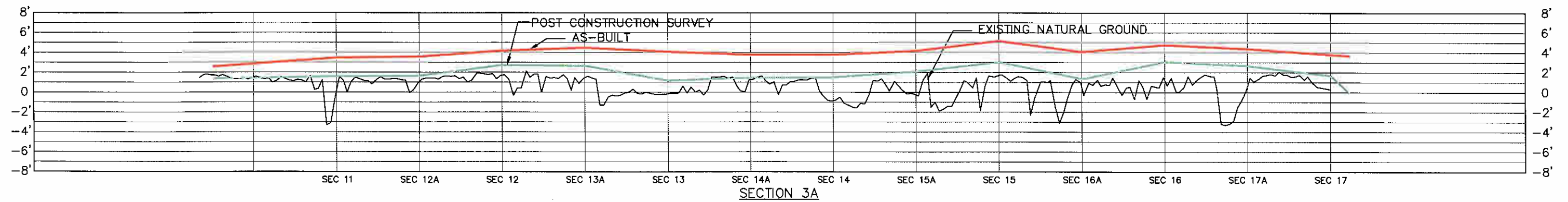
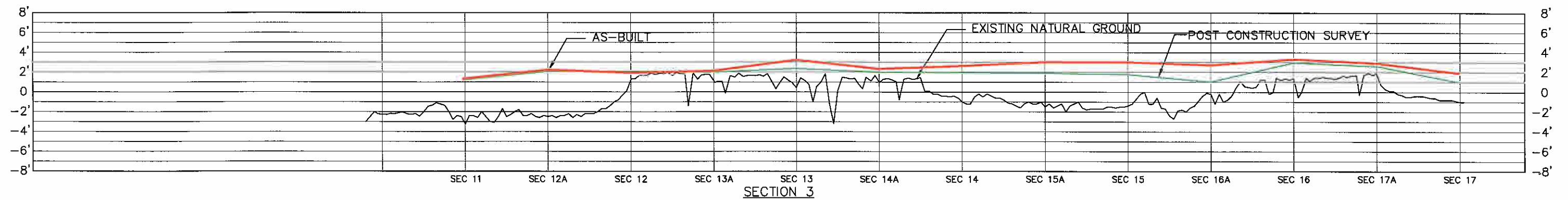
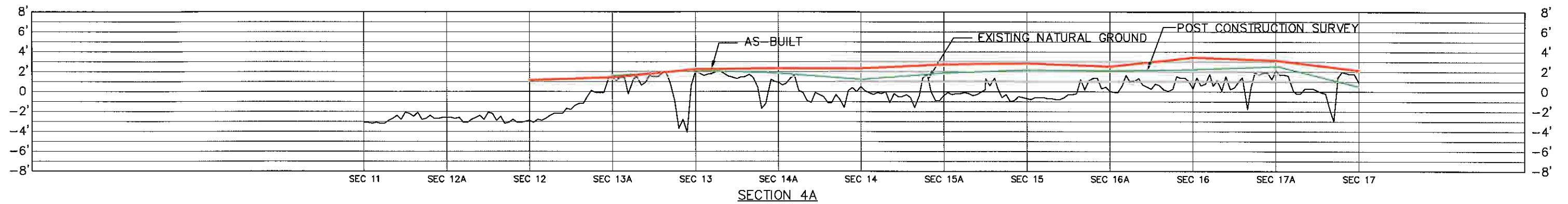
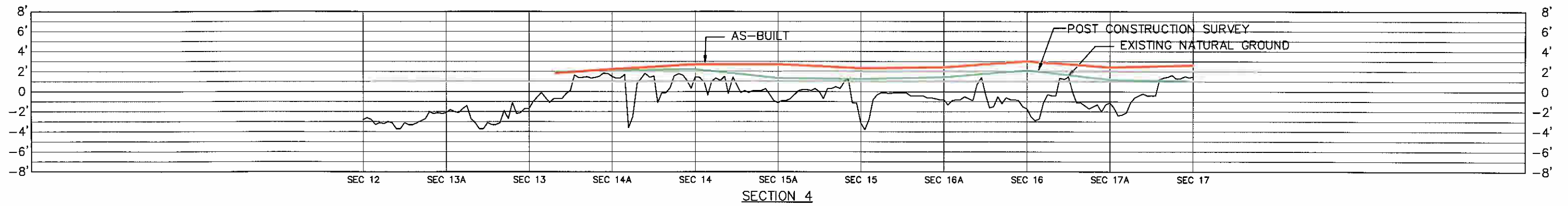
SCALE: HORIZ. 1"=600'  
VERT. 1"=10'

FILE NAME:	116478
SCI. NO.:	116478
DATE:	8/21/07
PLOT SCALE:	AS SHOWN
DRAWN BY:	KJS
APPROVED:	JMP
MAP NO.	

MARSH CROSS SECTIONS  
SECTION 1A-2  
  
POST CONSTRUCTION SURVEY

SHEET NO.  
**4**  
OF  
**11**





NOTES:

DATE	REVISIONS	DRAWN BY	APPROVED BY



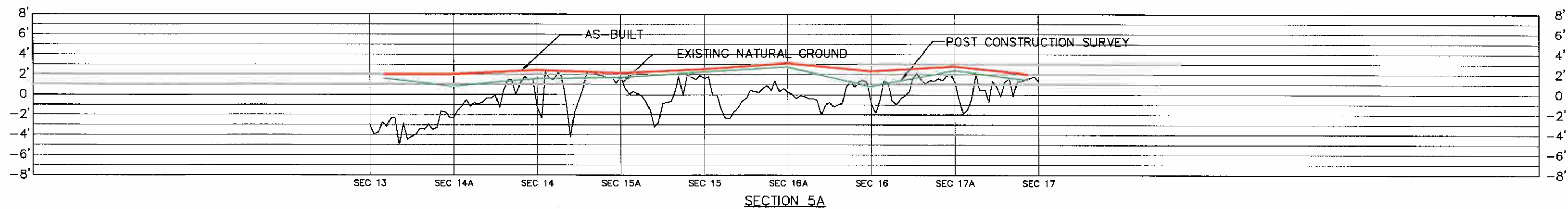
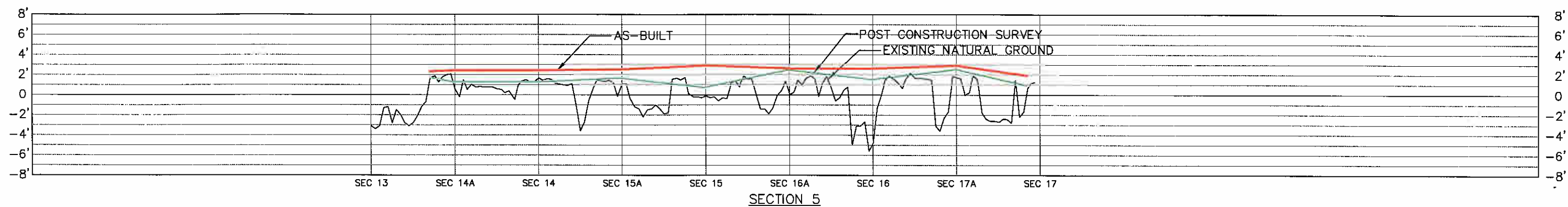
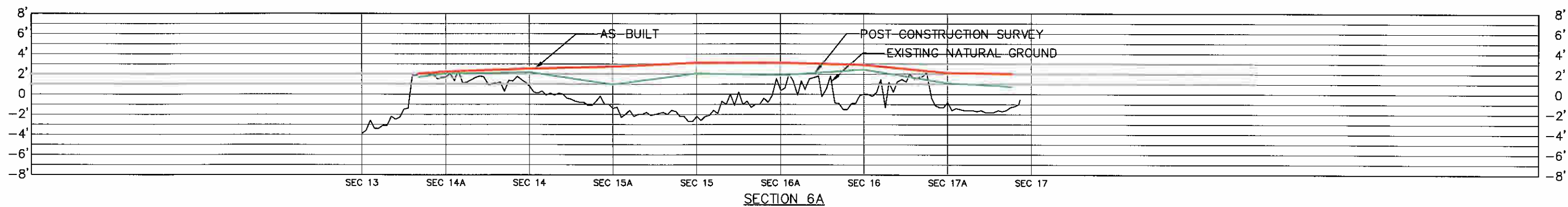
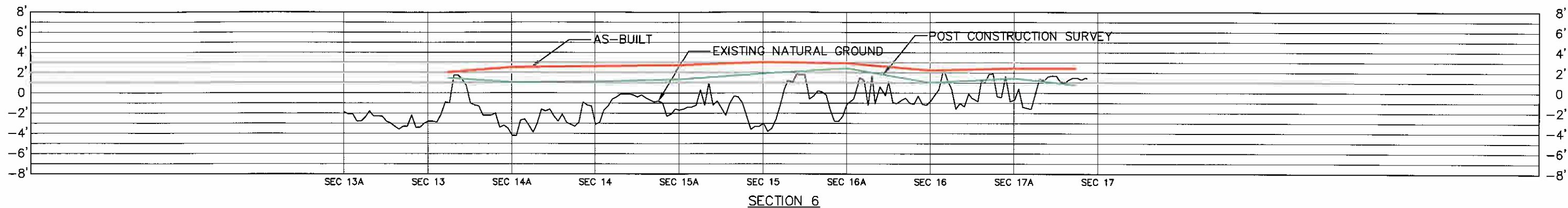
SCALE: HORIZ. 1"=600'  
VERT. 1"=10'

FILE NAME:	116478
SCI. NO.:	116478
DATE:	8/21/07
PLOT SCALE:	AS SHOWN
DRAWN BY:	KJS
APPROVED:	JMP
MAP NO.	

MARSH CROSS SECTIONS  
SECTION 3A-4

POST CONSTRUCTION SURVEY

SHEET NO.  
**5**  
OF  
**11**



NOTES:			
DATE	REVISIONS	DRAWN BY	APPROVED BY
	REVISIONS		



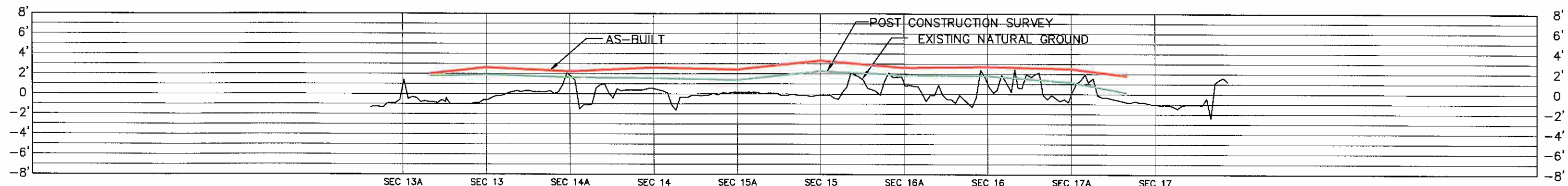
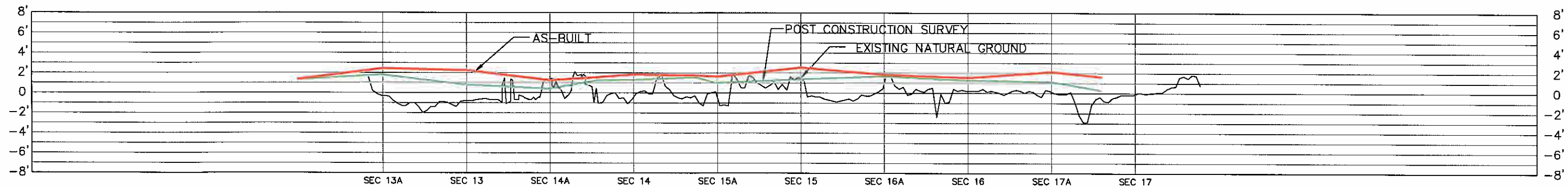
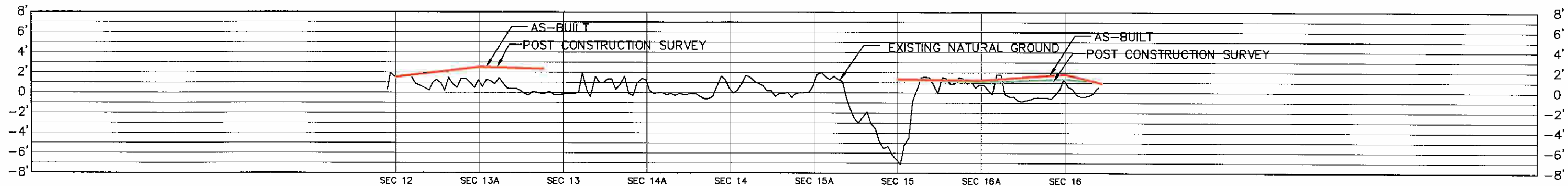
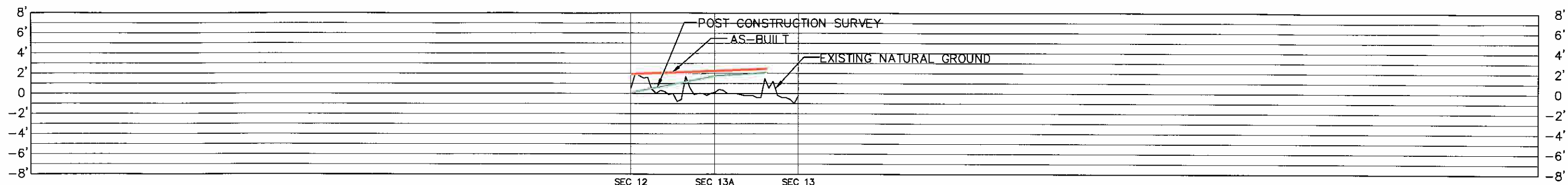
SCALE: HORIZ. 1"=600'  
VERT. 1"=10'

FILE NAME:	116478
SCL. NO.:	116478
DATE:	8/21/07
PLOT SCALE:	AS SHOWN
DRAWN BY:	KJS
APPROVED:	JMP
MAP NO.	

MARSH CROSS SECTIONS  
SECTION 5A-6

POST CONSTRUCTION SURVEY  
PINE BLUFF SAND & GRAVEL COMPANY

SHEET NO.  
**6**  
OF  
**11**



NOTES:			
DATE	REVISIONS	DRAWN BY	APPROVED BY
	REVISIONS		



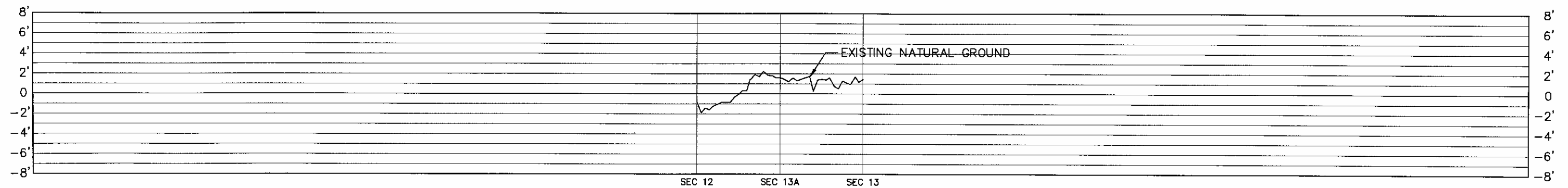
SCALE: HORIZ. 1"=600'  
VERT. 1"=10'

FILE NAME:	118478
SCL. NO.:	118478
DATE:	8/21/07
PLOT SCALE:	AS SHOWN
DRAWN BY:	KJS
APPROVED:	JMP
MAP NO.	

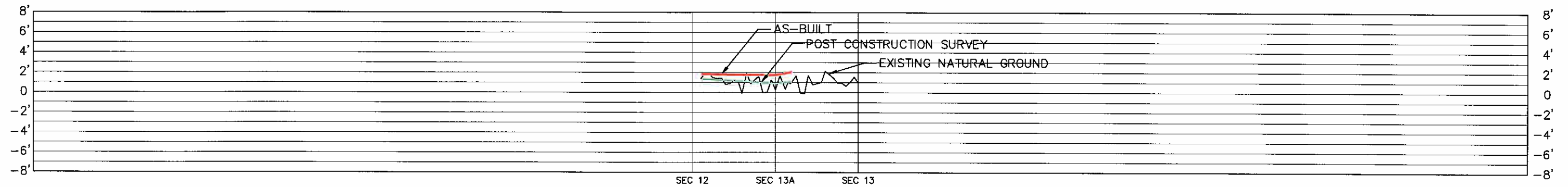
MARSH CROSS SECTIONS  
SECTION 7A-8

POST CONSTRUCTION SURVEY

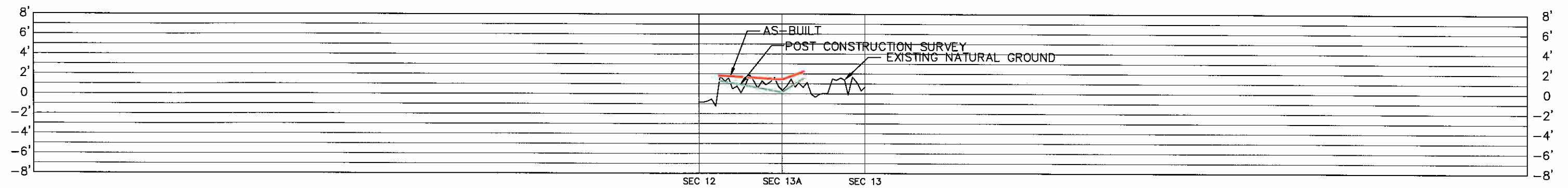
SHEET NO.  
**7**  
OF  
**11**



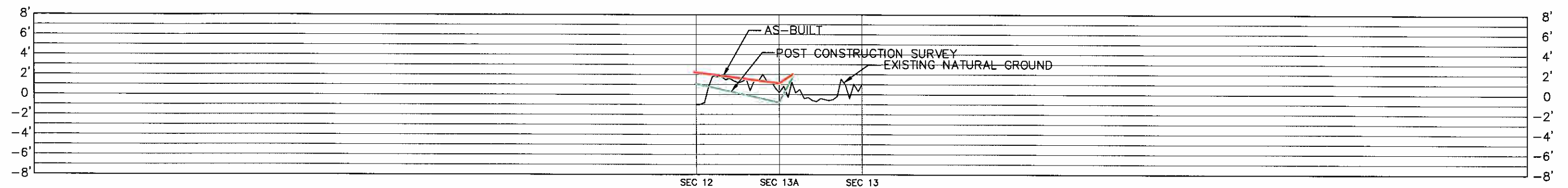
SECTION 10



SECTION 10A



SECTION 9



SECTION 9A

NOTES:

DATE	REVISIONS	DRAWN BY	APPROVED BY
	REVISIONS		



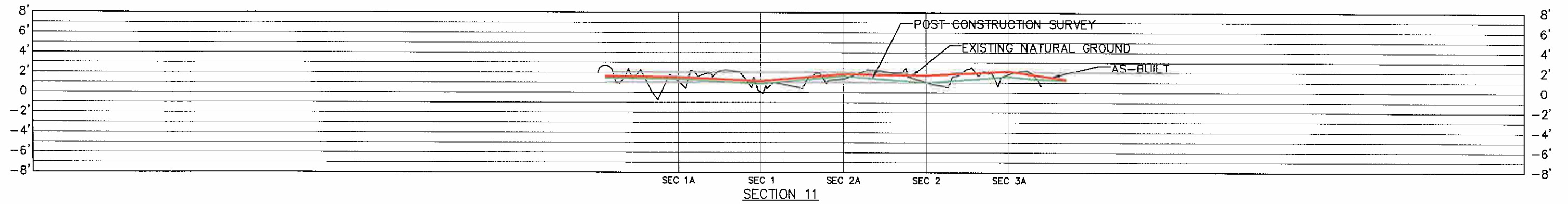
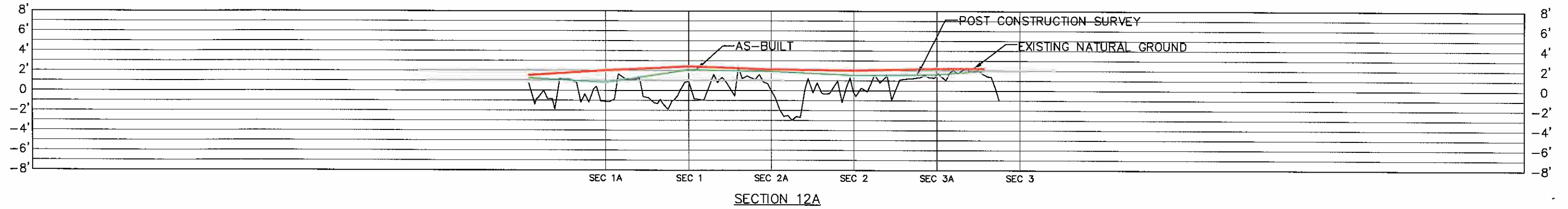
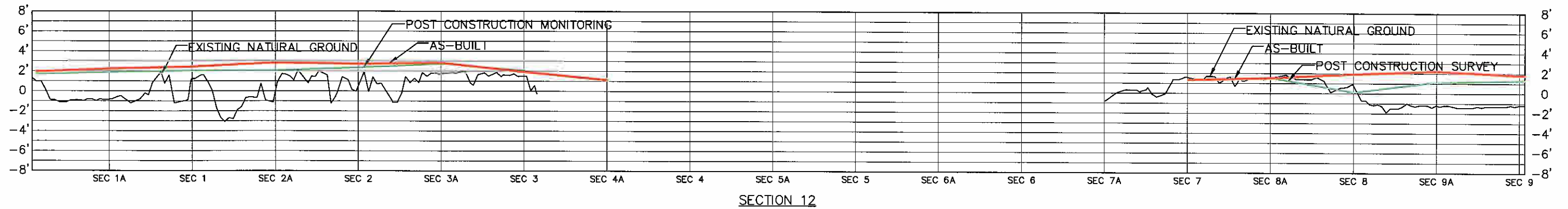
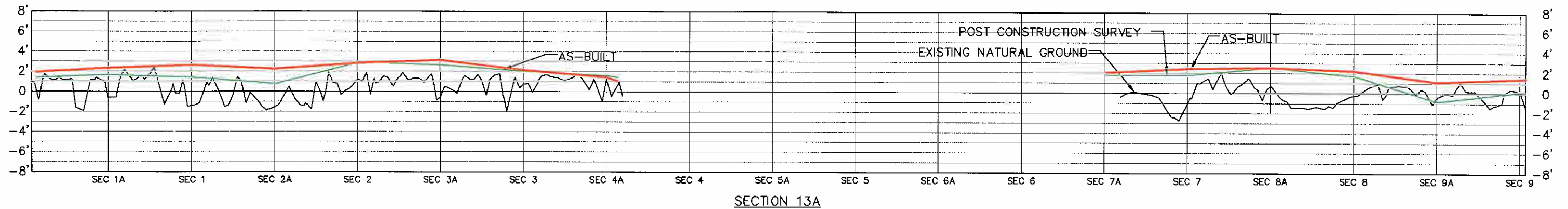
SCALE: HORIZ. 1"=600'  
VERT. 1"=10'

FILE NAME: 116478  
SCI. NO.: 116478  
DATE: 8/21/07  
PLOT SCALE: AS SHOWN  
DRAWN BY: KJS  
APPROVED: JMP  
MAP NO.

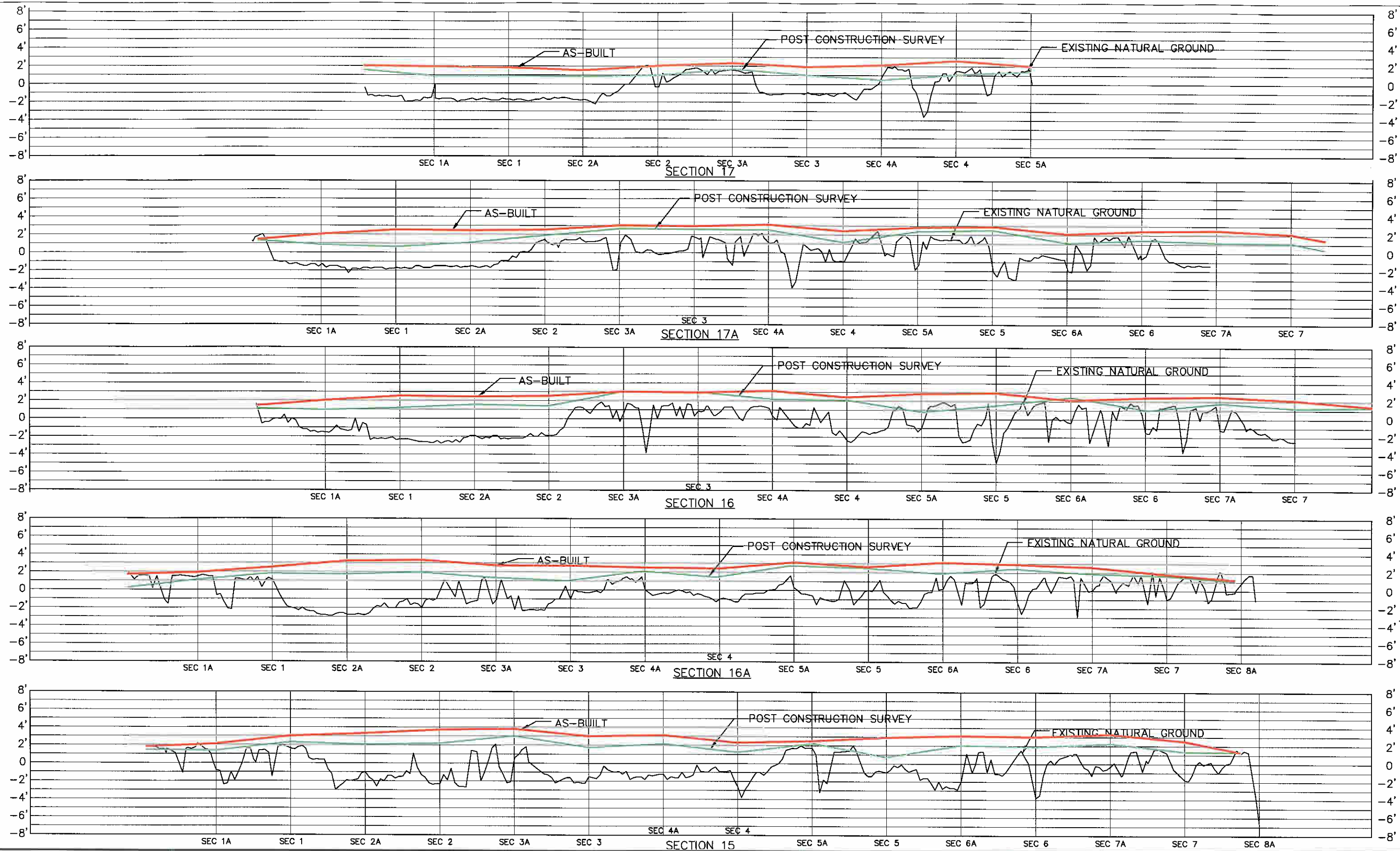
MARSH CROSS SECTIONS  
SECTION 9A-10

POST CONSTRUCTION SURVEY

SHEET NO.  
**8**  
OF  
**11**







NOTES:			
DATE	REVISIONS	DRAWN BY	APPROVED BY
	REVISIONS		



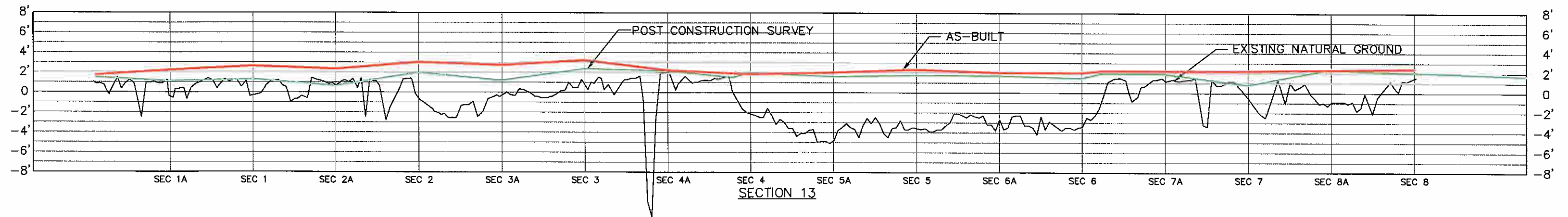
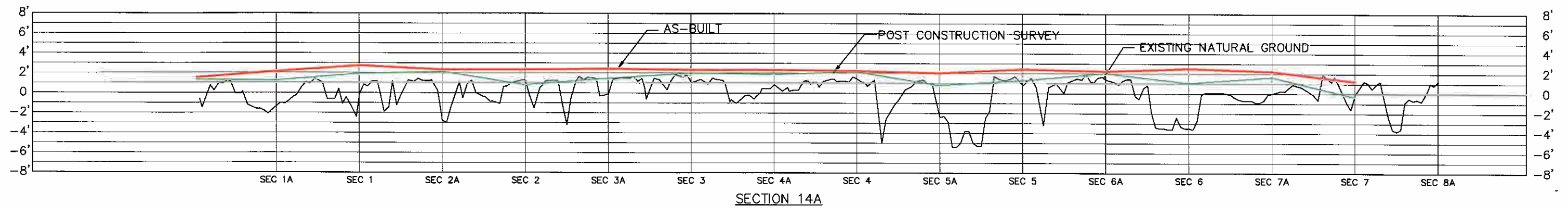
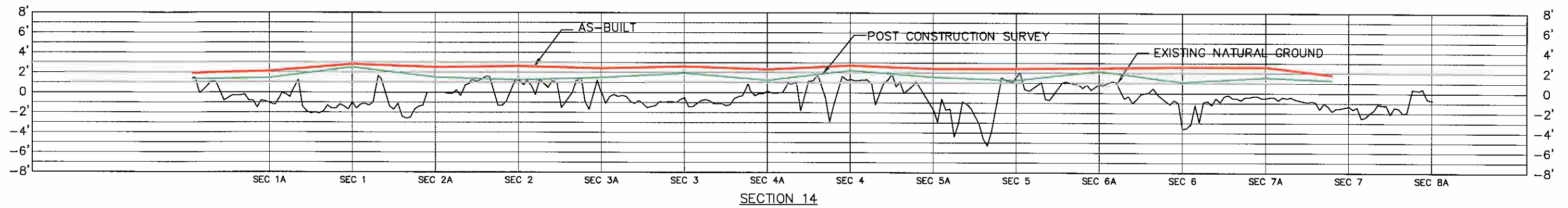
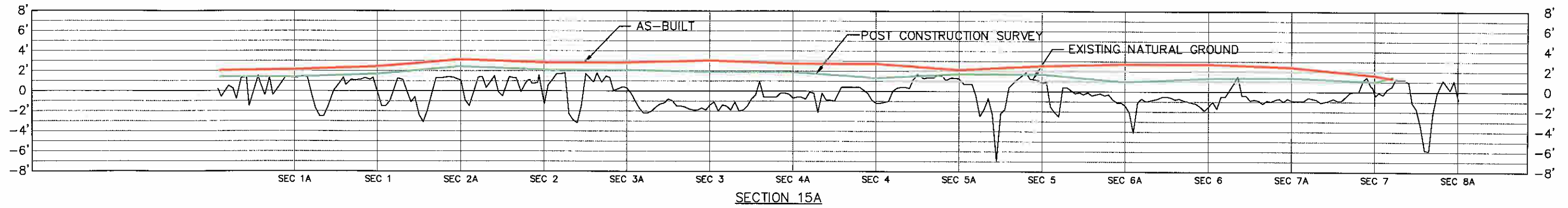
SCALE: HORIZ. 1"=600'  
VERT. 1"=10'

FILE NAME:	118478
SCI. NO.:	118478
DATE:	8/21/07
PLOT SCALE:	AS SHOWN
DRAWN BY:	KJS
APPROVED:	JMP
MAP NO.	

MARSH CROSS SECTIONS  
SECTION 15-17

POST CONSTRUCTION SURVEY

SHEET NO.  
**10**  
OF  
**11**



NOTES:			
DATE	REVISIONS	DRAWN BY	APPROVED BY
	REVISIONS		



SCALE: HORIZ. 1"=600'  
VERT. 1"=10'

FILE NAME:	116478
SCI. NO.:	116478
DATE:	8/21/97
PLOT SCALE:	AS SHOWN
DRAWN BY:	KJS
APPROVED:	JMP
MAP NO.	

MARSH CROSS SECTIONS  
SECTION 13-15A

POST CONSTRUCTION SURVEY

SHEET NO.  
**11**  
OF  
**11**

---

### **Section 3**

#### **Survey Data**

---

---

---

## SECTION 3

### SURVEY DATA

---

---

A hard copy of the Survey data is attached.

One (1) data file is produced in attached sheets:

**1. Survey Data 9 Month Post Construction.xls**

One file will contain survey data reported in Louisiana State Plane Coordinates, South Zone in feet with NAVD 88 elevations in feet.

1	363981.44	3638772.85	2.98	ba-37-sm01	
2	350270.15	3655746.23	3.38	ba-37-sm02	
3	349553.88	3642771.69	3.69	rr spike	
4	349496.28	3642752.07	0.673	tow	
5	363981.51	3638772.82	2.949	chk 1	
6	350140.10	3642819.26	0.626	ng	1B,17B
7	350169.01	3643285.16	0.577	ng	1A,17B
8	350195.44	3643786.57	0.333	ng	1,17B
9	350228.12	3644285.13	0.683	ng	2A,17B
10	350406.58	3642810.35	1.551	ng	1B,17
11	350406.11	3643277.83	0.878	ng	1A,17
12	350406.48	3643780.80	0.881	ng	1,17
13	350407.80	3644279.55	0.837	ng	2A,17
14	350271.40	3644783.99	1.444	ng	2,17B (#1213)
15	350407.51	3644777.66	0.979	ng	2,17
16	350407.59	3645279.08	1.654	ng	3A,17
18	350411.65	3645781.02	0.983	ng	3,17
19	350412.92	3646279.40	0.489	ng	4A,17
20	350450.84	3646776.90	1.055	ng	4,17
21	350469.92	3647281.36	1.428	ng	5A,17
22	350483.67	3647781.40	0.922	ng	5,17
23	350529.05	3648275.32	0.742	ng	6A,17
24	350544.25	3648778.92	-0.119	ng	6,17 (#1216)
25	350586.62	3649277.85	0.144	ng	7A,17
26	350611.96	3649777.12	-0.27	ng	7,17
27	350909.13	3649765.12	1.119	ng	7,17A
28	350918.38	3649267.55	1.173	ng	7A,17A
29	350913.99	3648768.11	1.428	ng	6,17A
30	350915.02	3648264.46	1.266	ng	6A,17A (#157)
31	350905.33	3647764.77	2.525	ng	5,17A
32	350904.11	3647264.78	2.378	ng	5A,17A
33	350911.66	3646764.73	1.169	ng	4,17A
34	350901.84	3646264.24	2.524	ng	4A,17A
35	350899.91	3645765.28	2.572	ng	3,17A
36	350909.28	3645263.08	2.659	ng	3A,17A
37	350907.92	3644763.18	1.895	ng	2,17A
38	350906.32	3644264.16	1.097	ng	2A,17A
39	363981.64	3638772.87	2.925	close out 1	
40	363981.54	3638772.84	2.945	chk 1	
41	350904.74	3643763.79	0.627	ng	1,17A
42	350903.43	3643263.36	0.832	ng	1A,17A
43	350892.92	3642841.06	1.329	ng	1B,17A
44	351406.97	3642793.31	1.108	ng	1B,16
45	351853.30	3642785.74	0.208	ng	1B,16A
46	352414.01	3642752.63	1.469	ng	1B,15
47	352902.62	3642749.17	1.388	ng	1B,15A
48	353406.26	3642720.79	1.313	ng	1B,14
49	353901.59	3642689.94	1.303	ng	1B,14A
50	354405.98	3642705.41	1.467	ng	1B,13
51	354903.82	3642698.65	1.398	ng	1B,13A
52	355406.22	3642683.12	1.657	ng	1B,12
53	355903.32	3642645.71	1.235	ng	1B,12A

54	356403.17	3642656.09	1.421 ng	1B,11	
56	357059.44	3643072.22	1.421 ng	1A,11A	
57	356401.90	3643092.25	1.318 ng	1A,11	
58	355901.93	3643107.92	0.806 ng	1A,12A	
59	355401.36	3643122.45	1.866 ng	1A,12	
60	354902.97	3643135.89	1.653 ng	1A,13A	
61	354402.82	3643154.49	1.077 ng	1A,13	
62	353903.01	3643169.91	1.212 ng	1A,14A	
63	353404.87	3643184.67	1.431 ng	1A,14	
64	352901.83	3643201.30	1.387 ng	1A,15A	
65	351403.95	3643247.11	0.965 ng	1A,16	
66	356948.43	3643573.26	1.26 ng	1,11A	
67	356406.74	3643590.99	0.805 ng	1,11	
68	355905.23	3643607.10	2.083 ng	1,12A	
69	355405.54	3643622.89	2.031 ng	1,12	
70	354903.38	3643636.35	1.405 ng	1,13A	
71	354402.29	3643655.31	1.279 ng	1,13	
72	353904.03	3643670.44	1.888 ng	1,14A	
73	353402.68	3643683.60	2.505 ng	1,14	
74	352903.08	3643699.95	1.626 ng	1,15A	(#203)
75	352906.55	3644200.19	2.188 ng	2A,15A	(#204)
76	353405.00	3644186.11	1.487 ng	2A,14	
77	353901.84	3644179.14	2.088 ng	2A,14A	
78	354406.75	3644154.12	0.632 ng	2A,13	
79	354902.37	3644137.87	0.738 ng	2A,13A	
80	355404.00	3644123.91	2.039 ng	2A,12	
81	356404.22	3644092.71	1.61 ng	2A,11	
82	355905.02	3644108.09	1.912 ng	2A,12A	
83	356916.72	3644076.72	1.01 ng	2A,11A	
84	356405.61	3644591.07	0.959 ng	2,11	
86	355906.25	3644606.60	1.537 ng	2,12A	
87	355404.47	3644623.41	2.346 ng	2,12	
88	354904.60	3644651.91	2.904 ng	2,13A	
89	354401.08	3644654.84	1.963 ng	2,13	
92	363981.62	3638772.88	2.952 close out 1		
100	349508.32	3642771.14	3.928 1/2 bolt		
101	363981.39	3638772.86	2.962 chk1		
102	353907.75	3645169.48	1.448 ng	3A,14A	
103	354407.45	3645151.83	1.161 ng	3A,13	
104	354905.72	3645144.61	2.634 ng	3A,13A	
105	355406.36	3645122.65	2.701 ng	3A,12	
106	355906.80	3645105.29	1.623 ng	3A,12A	
107	356406.51	3645091.39	1.583 ng	3A,11	
108	357145.76	3645067.94	1.351 ng	3A,11A	
110	351409.89	3645751.58	2.945 ng	3,16	
111	351908.91	3645732.96	1.016 ng	3,16A	
112	352408.22	3645718.79	1.764 ng	3,15	
113	352908.18	3645701.83	1.885 ng	3,15A	
114	353406.84	3645686.18	1.932 ng	3,14	
115	353916.14	3645669.87	1.974 ng	3,14A	
116	354417.26	3645694.04	2.603 ng	3,13	(#1242)
117	354907.13	3645647.51	1.97 ng	3,13A	

118	355408.18	3645623.44	2.067 ng	3,12
119	355909.38	3645392.79	2.016 ng	3,12A
120	355428.89	3645957.25	1.383 ng	4A,12
121	354908.03	3646138.69	1.596 ng	4A,13A
122	354410.30	3646155.39	2.13 ng	4A,13
123	353908.46	3646167.40	1.845 ng	4A,14A
124	353410.12	3646186.08	1.219 ng	4A,14
125	352910.99	3646701.21	1.307 ng	4,15A
126	352910.57	3646203.09	1.863 ng	4A,15A
127	352411.51	3646216.81	2.181 ng	4A,15
128	351910.06	3646233.07	2.094 ng	4A,16A
129	351418.31	3646317.88	2.199 ng	4A,16
130	351412.06	3646750.76	2.104 ng	4,16
131	351912.67	3646732.35	1.427 ng	4,16A
132	352412.30	3646717.04	1.241 ng	4,15
133	353411.56	3646688.69	2.216 ng	4,14
134	353911.39	3646667.49	2.13 ng	4,14A
135	354251.04	3646657.80	1.939 ng	4,13B
136	354312.19	3647158.74	1.588 ng	5A,13
137	353911.06	3647166.73	0.786 ng	5A,14A
138	353408.55	3647183.93	1.561 ng	5A,14
139	352912.82	3647202.35	1.7 ng	5A,15A
140	352424.40	3647229.04	2.228 ng	5A,15
141	351910.82	3647232.34	2.73 ng	5A,16A
142	351412.15	3647251.07	0.8 ng	5A,16
143	351413.66	3647749.73	1.524 ng	5,16
144	351912.56	3647732.48	2.473 ng	5,16A
145	352413.10	3647716.80	0.725 ng	5,15
146	352914.30	3647701.74	1.661 ng	5,15A
147	353413.18	3647686.13	1.267 ng	5,14
148	353914.56	3647675.63	1.272 ng	5,14A
149	354052.77	3647668.91	1.73 ng	5,13B
150	354073.02	3648165.69	1.68 ng	6A,13B
151	353916.17	3648169.82	2.02 ng	6A,14A
152	353414.13	3648184.90	2.17 ng	6A,14
153	352914.67	3648202.16	0.944 ng	6A,15A
154	352415.00	3648216.98	2.045 ng	6A,15
155	351913.91	3648232.59	1.865 ng	6A,16A
156	351416.48	3648250.62	2.451 ng	6A,16
157	350914.48	3648265.97	1.106 ng	6A,17A
158	349508.30	3642771.01	3.88 close 100	
159	353905.99	3644667.93	0.778 ng	2,14A
160	353405.84	3644684.76	1.239 ng	2,14
161	353407.35	3645186.67	1.47 ng	3A,14
162	351408.52	3645251.08	3.046 ng	3A,16
164	351415.43	3648766.15	0.991 ng	6,16
165	351915.59	3648733.54	2.411 ng	6,16A
166	352405.48	3648717.75	1.9 ng	6,15
167	352913.36	3648703.17	1.319 ng	6,15A
168	353415.64	3648683.92	1.09 ng	6,14
169	353912.45	3648668.84	1.039 ng	6,14A
170	354292.67	3648661.47	1.453 ng	6,13

171	354749.03	3649147.41	1.773 ng	7A,13A
172	354414.99	3649154.90	1.905 ng	7A,13
173	353914.76	3649170.39	1.627 ng	7A,14A
174	353416.59	3649185.86	1.552 ng	7A,14
175	352916.82	3649204.29	1.372 ng	7A,15A
176	352417.02	3649223.60	2.259 ng	7A,15
177	351419.89	3649254.99	1.801 ng	7A,16
178	351916.44	3649236.66	1.879 ng	7A,16A
179	351918.85	3649735.21	1.653 ng	7,16A
180	351418.39	3649741.35	1.248 ng	7,16A
182	351917.41	3650205.94	1.041 ng	8A,16A
183	352419.74	3650088.83	1.333 ng	8A,15
184	352417.28	3649717.54	1.337 ng	7,15
185	352918.57	3649702.99	0.989 ng	7,15A
186	353417.59	3649581.94	1.269 ng	7,14
187	353917.96	3649672.34	-0.25 ng	7B,14A
188	353918.09	3649672.46	-0.37 ng	7,14A
189	354416.39	3649656.54	0.782 ng	7,13
190	354915.92	3649637.51	1.792 ng	7,13A
191	354918.11	3650136.26	2.526 ng	8A,13A
192	354922.17	3650639.52	1.712 ng	8,13A
193	354922.23	3651138.50	-0.825 ng	9A,13A
194	354921.59	3651636.81	0.118 ng	9,13A
195	354922.56	3652138.87	0.889 ng	10A,13A
196	355418.35	3650623.71	0.091 ng	8,12
197	355418.37	3650124.83	1.511 ng	8A,12
198	355416.84	3649624.46	1.272 ng	7,12
200	349534.27	3642752.20	1.14 tow	
201	363981.54	3638772.93	2.95 ck 1	
203	352904.10	3643699.85	1.66 ng	1,15A
204	352906.70	3644198.55	2.41 ng	2A,15A
205	352903.48	3644721.86	2.06 ng	2,15A
206	352908.96	3645199.85	2.07 ng	3A,15A
207	352404.98	3645218.71	3.02 ng	3A,15
208	351901.43	3645235.26	1.35 ng	3A,16A
209	351909.23	3644733.05	1.95 ng	2,16A
211	352403.35	3644717.27	2.19 ng	2,15
212	352405.86	3644219.54	2.07 ng	2A,15
213	351908.24	3644233.48	1.71 ng	2A,16A
215	351906.65	3643735.73	1.8 ng	1,16A
216	352403.65	3643715.36	2.32 ng	1,15
217	352400.82	3643215.93	1.37 ng	1A,15
219	351911.30	3643253.77	1.09 ng	1A,16A
220	351407.93	3643746.58	1.2 ng	1,16
221	351403.34	3644246.59	1.55 ng	2A,16
222	351406.30	3644742.18	1.4 ng	2,16
1000	349534.30	3642752.16	1.14 tow	
1001	363981.50	3638772.93	2.95 chk1	
1213	350224.85	3644785.46	1.701 ng	2,17B
1218	350919.69	3649988.07	0.372 ng	7B,17A
1219	351200.55	3650257.24	0.97 ng	8A,16B
1220	351421.69	3650659.95	0.203 ng	8,16



1222	351421.15	3650249.37	1.321 ng	8A,16
1223	352918.21	3649808.40	1.49 ng	7B,15A
1224	353036.95	3649701.53	1.525 ng	7,14B
1225	353635.33	3649679.68	1.206 ng	7,14B
1226	354538.56	3650125.89	2.279 ng	8A,13B
1227	354611.82	3650649.47	2.027 ng	8,13B
1228	354838.64	3651140.32	1.752 ng	9A,13B
1229	354922.94	3652303.29	1.95 ng	10B,13A
1231	357003.16	3642626.73	1.167 ng	1B,11A
1232	356959.15	3644574.48	0.899 ng	2,11A
1234	356407.80	3645246.87	1.326 ng	3,11
1235	354910.42	3646203.48	1.401 ng	4B,13A
1236	354410.02	3646550.87	1.481 ng	4,13
1237	354414.52	3648777.98	1.924 ng	6B,13
1238	355304.25	3651625.85	1.282 ng	9,12
1239	355363.68	3652128.06	1.334 ng	10A,12
1240	355103.11	3652635.88	0.995 ng	10,12B
1241	354826.00	3652144.70	1.041 ng	10A,13B
1242	354416.86	3645692.88	2.353 ng	3,13
1245	352907.41	3644702.25	1.509 ng	9,13B
1246	355432.55	3651106.72	1.142 ng	9A,12
1247	363981.51	3638773.03	2.96	close out 1

---

## **Section 4**

### **Field Notes**

---

---

---

## **SECTION 4**

### **FIELD NOTES**

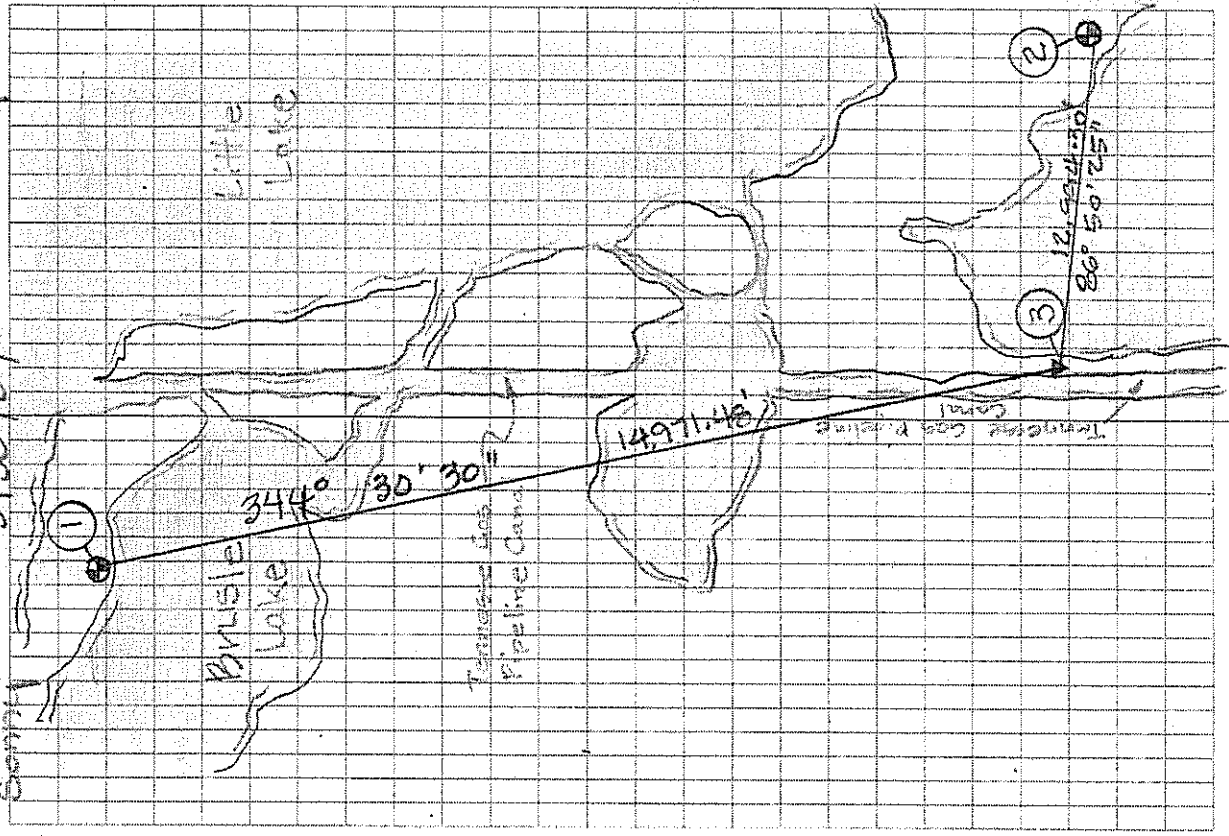
---

---

All field survey information documented and recorded is attached.



203  
3/20/07  
Roy John Smith



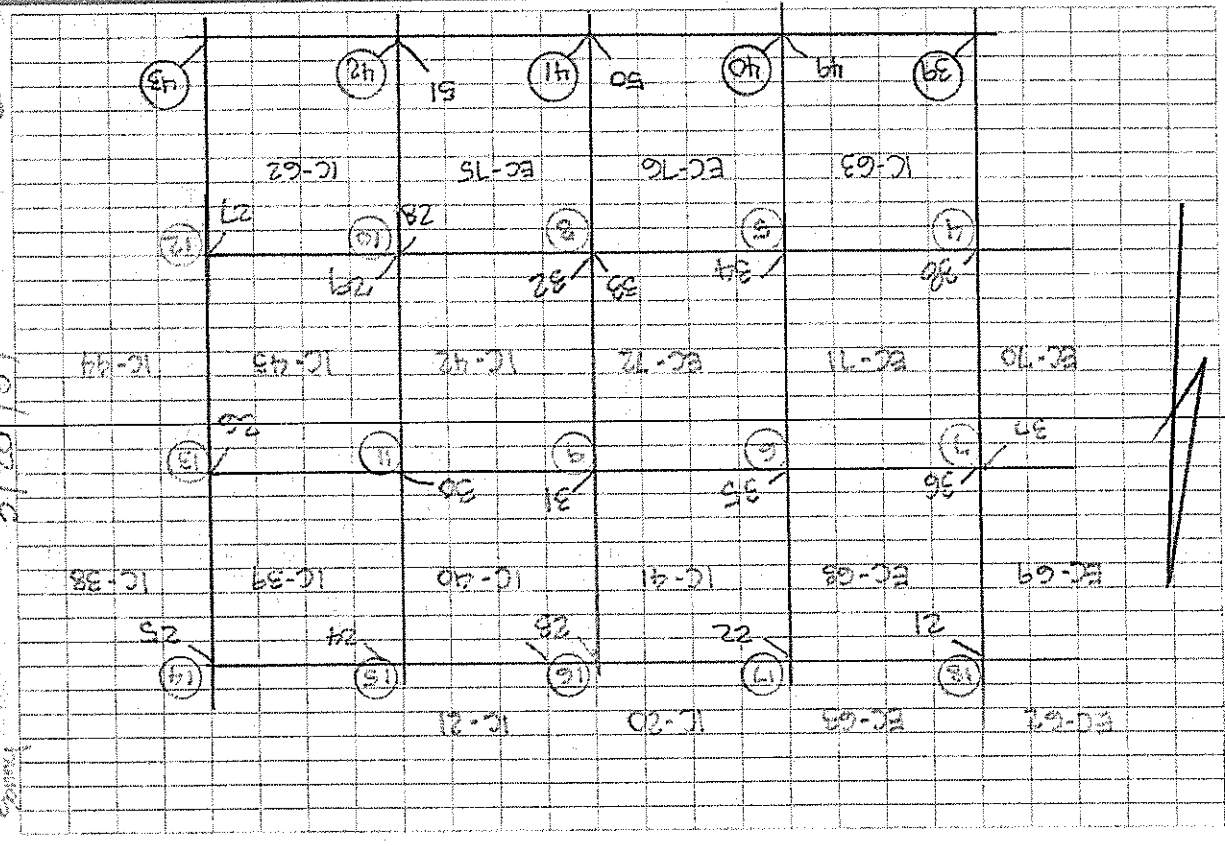
# 116478	Little Lake	330000W2
File: 116478 Y	Cell Field Surveys	
Pt		Nov 88
1	363781.44 BA-37-SM01	Elev. 2.98
2	350270.15 BA-37-SM02	3655746.23 3.38
3	369553.88 Camp site Control (Railroad spike set in 12" Piling)	3642771.69 3.67
19	347534.27 Top of Water	3642752.20 1.143
20	Staff Gauge @ Camp 363781.54 3638772.93	2.95
21	Check #1 (BA-37-SM01) 352903.00 Natural Ground @ #18	3643200.22 1.49
22	352904.10 Natural Ground @ #17	3643699.84 1.66 ✓
23	352906.70 Natural Ground @ #16	3644198.55 2.41 ✓
		Cont.

Ray  
John  
Carter

23  
3/20/07

72

#	16478	Little Lake	23000012	
	Cell	Field Surveys		
	File 116478Y			
Pt	N	E	Elev.	
24	352903.48	3644721.26	2.06	✓
	Natural Ground @ #15			
25	352903.96	3645199.85	2.07	✓
	Natural Ground @ #14			
26	352404.98	3645218.71	3.02	✓
	Natural Ground @ #13			
27	351901.43	3645235.26	1.35	✓
	Natural Ground @ #12			
28	351909.23	3644718.05	1.95	✓
	Natural Ground @ #10			
29	351903.21	3644728.73	2.17	✓
	Natural Ground @ #10			
30	352403.35	3644717.27	2.19	✓
	Natural Ground @ #11			
31	352405.86	3644719.54	2.07	✓
	Natural Ground @ #9			
32	351903.24	3644723.48	1.11	✓
	Natural Ground @ #8			
33	351905.28	3644727.40	1.84	✓
	Natural Ground @ #8			
34	351906.65	3644715.73	1.90	✓
	Natural Ground @ #5			
		Cont.		



#

116478

Little Lake

23000002

File: 116478Y

Cell Field Surveys

P4

S

BLAV.

55

352403.65

3643715.36

2.32 /

36

352400.82

3643215.40

1.37 /

37

352405.75

3643215.40

1.35 /

38

351911.30

3643293.77

1.09 /

49

351407.93

3643746.58

1.20 /

50

351403.34

3644246.59

1.55 /

51

351406.30

3644742.12

1.40 /

52

363991.64

3638772.93

2.95

Close out

Shot #1

#1

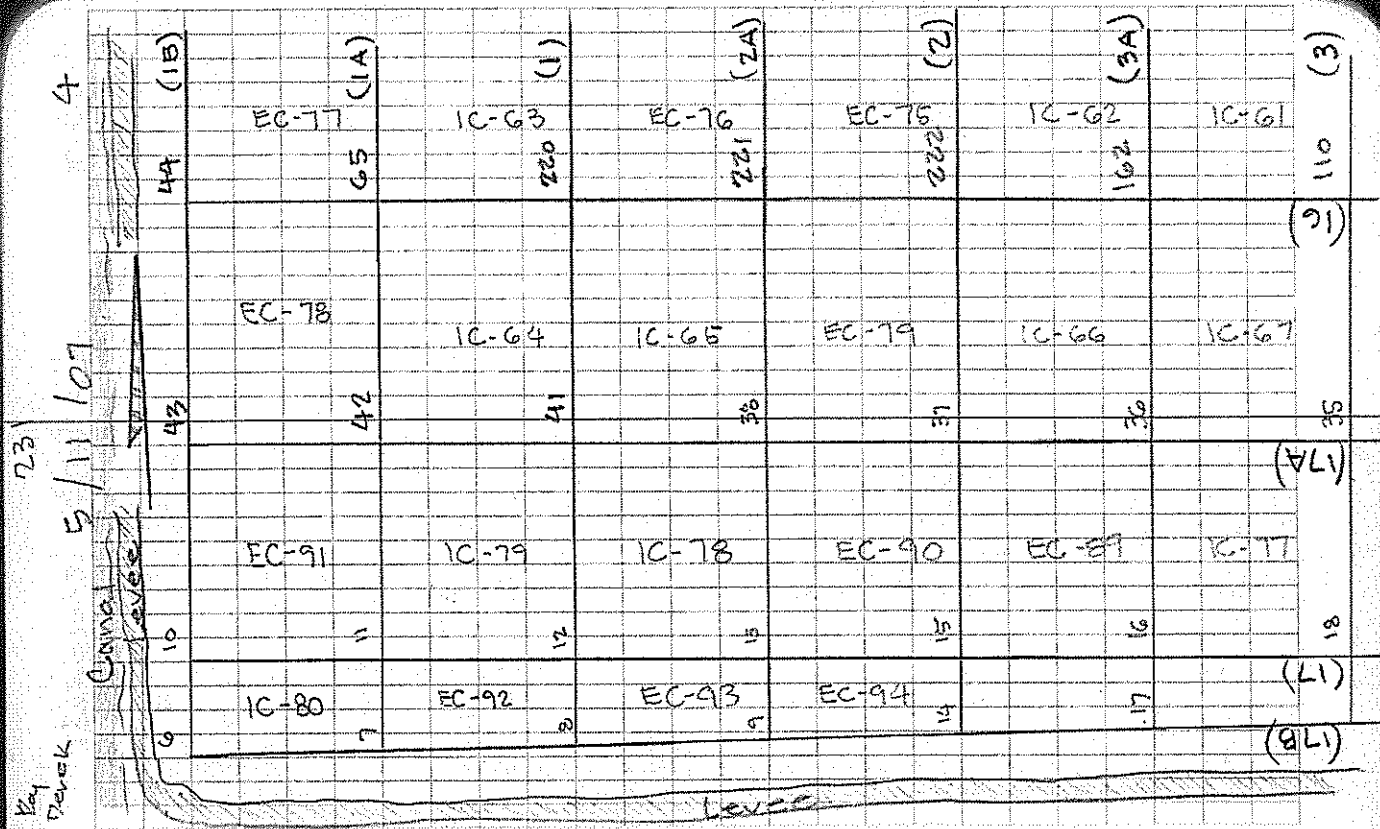
Ray  
John  
Sunny

231

3/20/07

3

#116478	Little Lake	230000W
File #116478-5-11-07		
Cell Field Survey		
Pl.	E	Elev.
1	K @ 3 (Camp Control)	
	363981.44	2.98
2	BA-37-SM01	
	350270.15	3.38
3	BA-37-SM02	
	364271.69	3.69
4	E.C. Spike in 12" piling	
	3642752.07	0.67
5	Top of Water	
	363981.51	2.95
6	Check Pt. 1	
(1B, 17B)	350140.10	0.63
7	Natural Ground	
(1A, 17B)	3643288.16	0.58
8	Natural Ground	
(1, 17B)	350195.44	0.33
9	Natural Ground	
(2A, 17B)	350228.12	0.68
10	Natural Ground	
(1B, 17)	350406.58	1.55
11	Natural Ground	
(1A, 17)	350406.11	0.88
	Natural Ground	

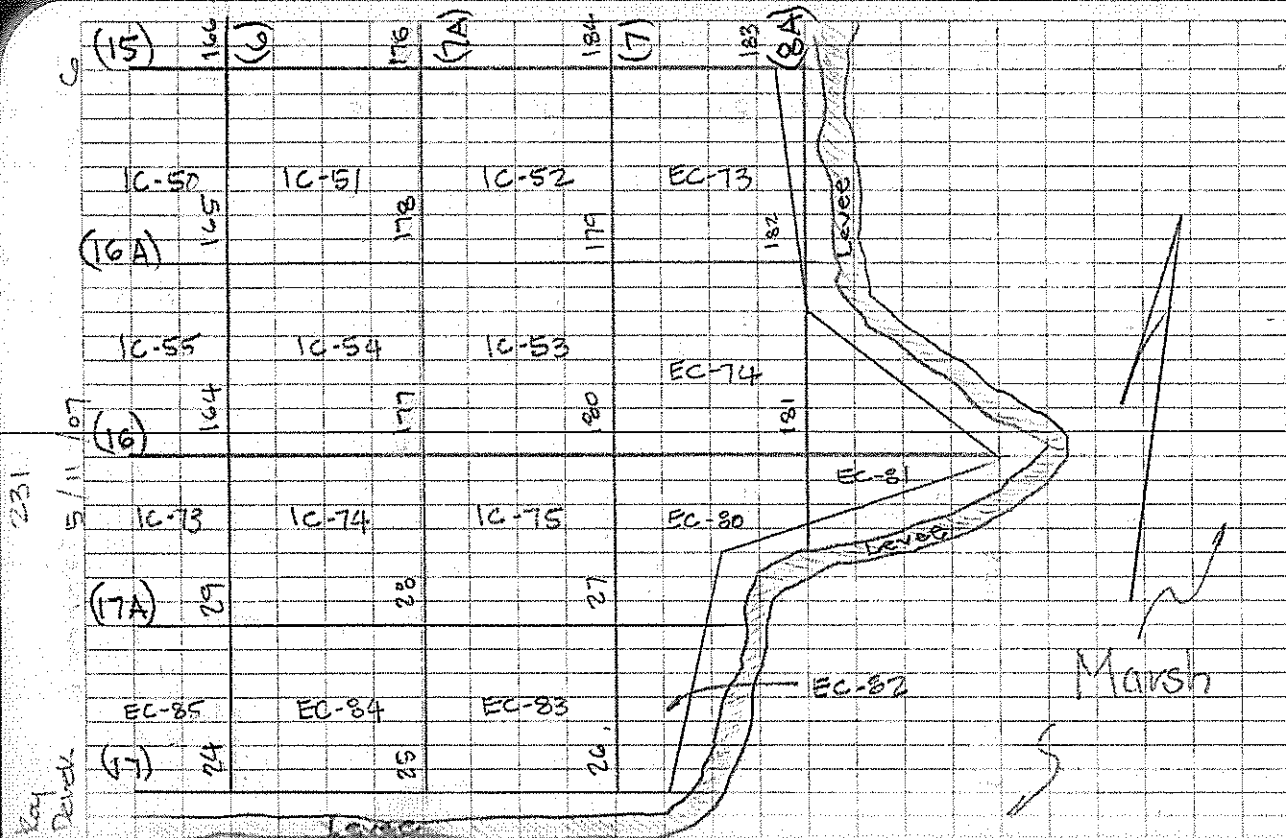




# 116478	Little Lake	2300000 W1
File: 116478-5-11-07		
124	N	Cell Field Survey
12	350406.43	Elev. 0.88
(1, 17)	Natural Ground	
13	350407.80	0.84
(2A, 17)	Natural Ground	
14	350271.40	1.44
(2, 17B)	Natural Ground (Rebat #1213)	
15	350407.51	0.98
(2, 17)	Natural Ground	
16	350407.59	1.65
(3A, 17)	Natural Ground	
17	350298.23	-0.03
(Deleted)	Natural Ground	
18	350411.65	0.98
(3, 17)	Natural Ground	
19	350412.92	0.47
(4A, 17)	Natural Ground	
20	350450.84	1.06
(4, 17)	Natural Ground	
21	350429.92	1.43
(5A, 17)	Natural Ground	
22	350483.67	0.92
(5, 17)	Natural Ground	

Key	231	5/11/07	5
Devok			
18	IC-77	35	110 (3)
19	EC-88	34	128 (4A)
20	EC-87	33	130 (4)
21	EC-86	32	141 (5A)
22	IC-76	31	144 (5)
23	IC-75	157	155 (6A)
24	EC-85	29	165 (6)
			(16A)
			(17A)
			(16)

#	116478	Little Lake	230000W1		
File	116478-5-11-07	Cell Field Survey			
Pl	N	S			
23	350529.05	2648275.32		Elev	0.74
(6A, 17)		Natural Ground			
24	350544.25	2648772.92			-0.12
(6, 17)		Natural Ground (Reshot as #1216)			
25	350586.62	2649277.85			0.14
(7A, 17)		Natural Ground			
26	350611.96	2649777.12			-0.27
(7, 17)		Natural Ground			
27	350909.13	2649765.12			1.12
(7, 17A)		Natural Ground			
28	350918.38	2649267.55			1.17
7A, 17A		Natural Ground			
29	350913.99	2648768.11			1.43
(6, 17A)		Natural Ground			
30	350915.02	2648264.46			1.27
(6A, 17A)		Natural Ground (Reshot as #157)			
31	350905.33	2647764.77			2.53
(5, 17A)		Natural Ground			
32	3509104.11	2647264.78			2.38
(5A, 17A)		Natural Ground			
33	350911.66	2646764.73			1.17
(4, 17A)		Natural Ground			



# 116478 Little Lake 23000001

File: 116478-5-11-07

Cell Field Survey

Pt	N	E	Elev.	(1B)	45	46	47	48	49
34	350901.84	3646264.24	2.52	EC-1	EC-10	EC-69	EC-62	EC-61	EC-48
(4A, 17A)		Natural Ground							
35	350899.91	3645765.28	2.57	(1A)	219	218	202	63	62
(3, 17A)		Natural Ground							
36	350909.28	3645263.08	2.66		EC-11	EC-68	EC-63	IC-19	IC-5
(3A, 17A)		Natural Ground							
37	350907.92	3644763.18	1.90	(11)	215	216	203	73	72
(2, 17A)		Natural Ground							
38	350906.32	3644264.16	1.10						
(2A, 17A)		Natural Ground							
39	363981.64	3638772.87	2.93	(2A)	213	212	75	76	77
	Close Out								
40	363981.54	3638772.84	2.95						
	Check								
41	350904.74	3643763.79	0.63	(2)	209	211	205	160	159
(1, 17A)		Natural Ground							
42	350903.43	3643263.36	0.83		IC-42	IC-39	IC-22	EC-59	EC-50
(1A, 17A)		Natural Ground							
43	350892.92	364284.06	1.33	(3A)	208	207	206	161	102
(1B, 17A)		Natural Ground							
44	351406.97	3642793.31	1.11	(6A)	11	112	113	114	115
(1B, 16)		Natural Ground		(3)					

231

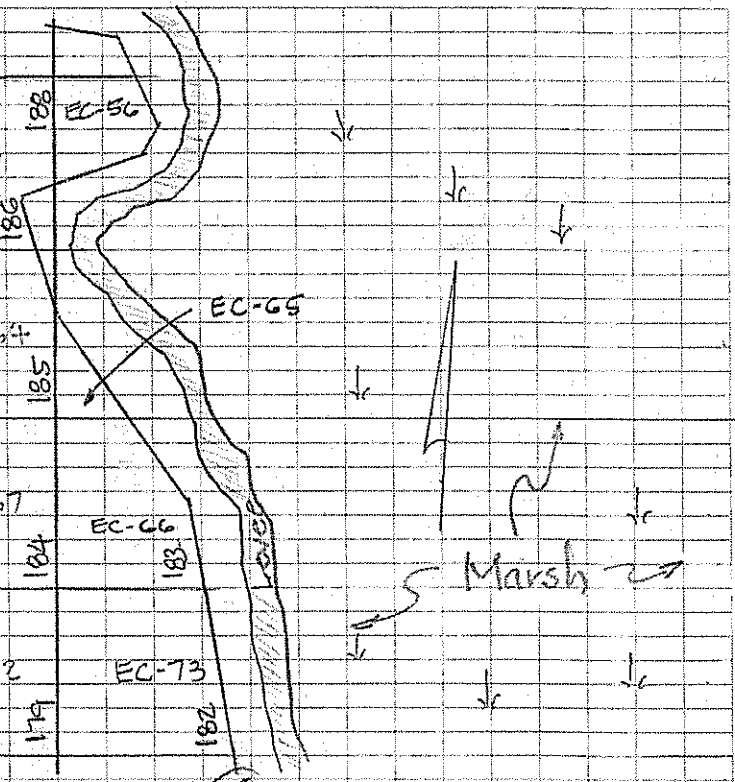
5/11/07

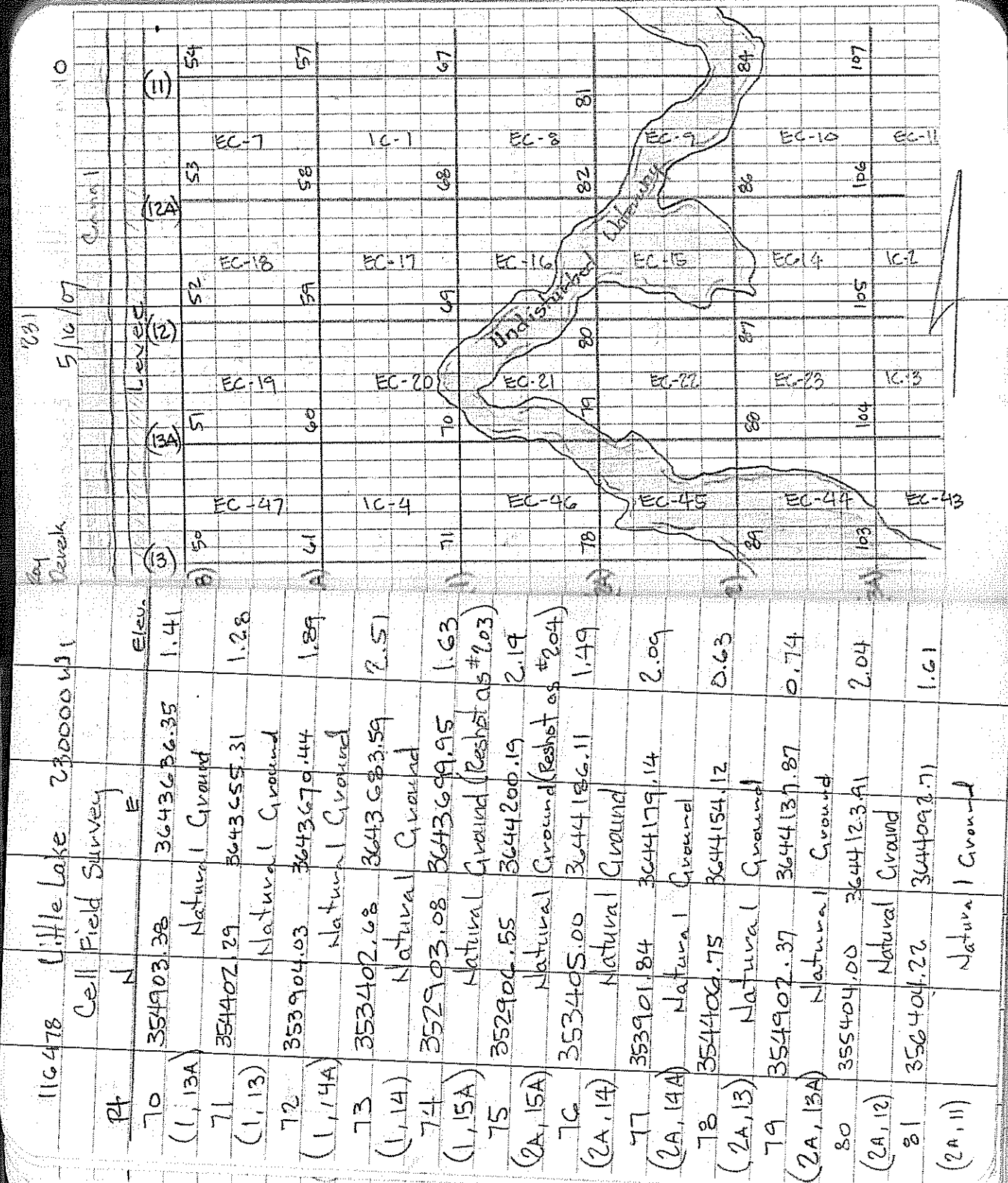
Derek

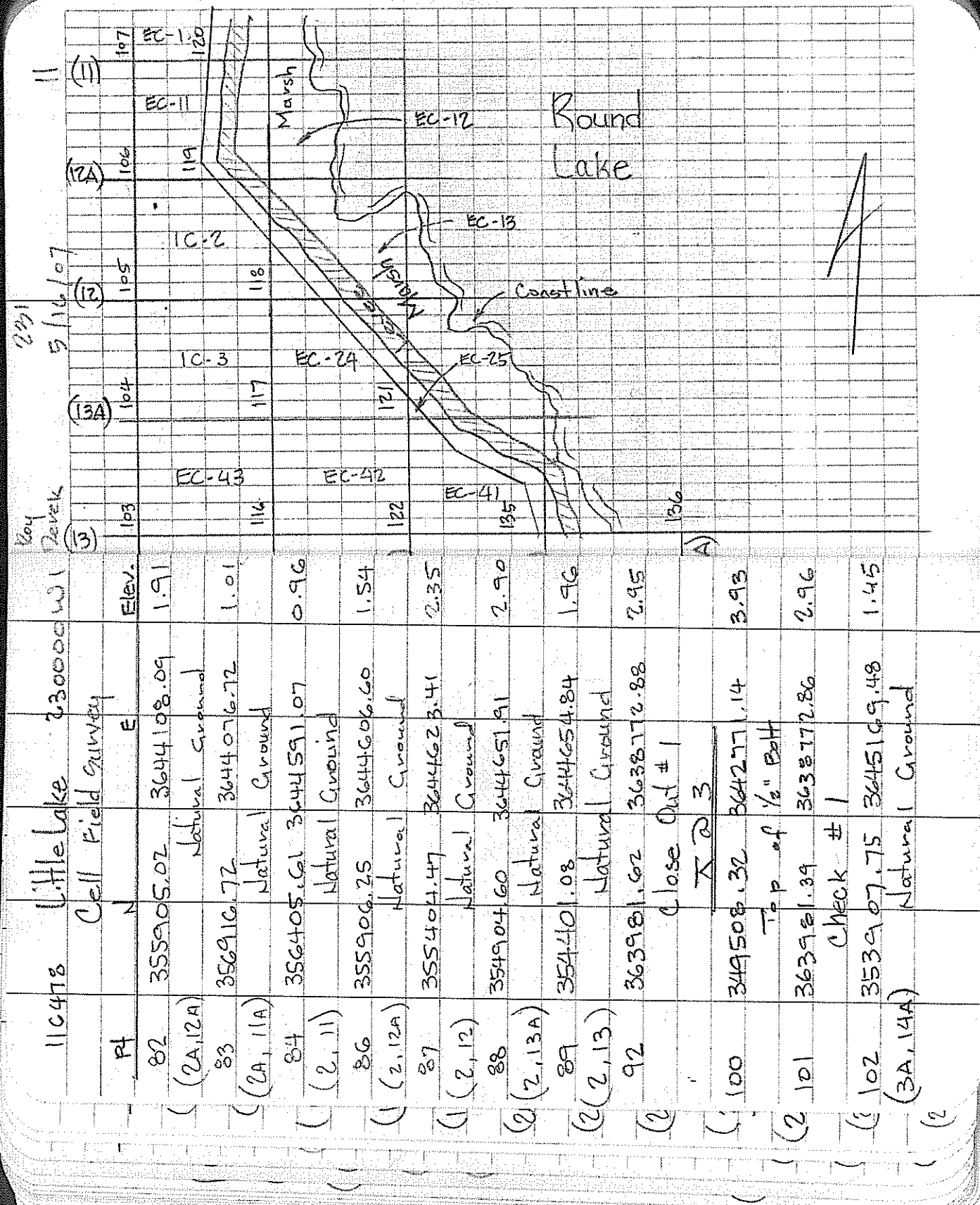
11C478	Little Lake 230000W	Survey	231	5/11/07	8
Rt	N	E	Elev.		
45	351853.30	3642735.74	0.21	(14A)	115
(1B, 16A)	Natural Ground			EC-58	114
46	352414.01	3642752.63	1.47	(14)	113
(1B, 15)	Natural Ground			IC-23	112
47	352902.62	3642749.17	1.37	(15A)	123
(1B, 15A)	Natural Ground			IC-24	124
48	353406.26	3642720.79	1.31		125
(1B, 14)	Natural Ground			IC-25	134
49	353901.59	3642689.94	1.30	(4)	137
(1B, 14A)	Natural Ground			EC-52	138
50	354403.98	3642705.41	1.47		139
(1B, 13)	Natural Ground			IC-15	147
51	354903.32	3642698.65	1.40	(5A)	148
(1B, 13A)	Natural Ground			IC-9	149
52	355406.22	3642683.12	1.66		EC-53
(1B, 12)	Natural Ground			IC-14	151
53	355903.32	3642645.71	1.24	(5)	150
(1B, 12A)	Natural Ground			IC-13	151
54	356403.17	3642652.09	1.42		EC-54
(1B, 11)	Natural Ground			IC-28	152
56	357059.44	3643072.27	1.42	(A)	169
(1A, 11A)	Natural Ground			IC-29	168
57	356401.90	3643092.25	1.32	(C)	170
(1A, 11)	Natural Ground				



116478	Little Lake	230000W1	Key	231	5/16/07	9
PT	Cell Field Survey	Elev.	Devek			
58 (1A, 12A)	355901.93 Natural Ground	0.81	(16A)	(15)	(15A)	(14)
59 (1A, 12)	355401.36 Natural Ground	1.87	6	165	167	168
60 (1A, 13A)	354902.97 Natural Ground	1.05	A	178	175	173
61 (1A, 13)	354402.82 Natural Ground	1.08				
62 (1A, 14)	353903.01 Natural Ground	1.21	T	179	184	186
63 (1A, 14)	353404.87 Natural Ground	1.43				
64 (1A, 15A)	352901.83 Natural Ground	1.39	(3A)	182	185	188
65 1A, 16	351403.95 Natural Ground	0.97				
66 (1, 11A)	350948.43 Natural Ground	1.26				
67 (1, 11)	350406.74 Natural Ground	0.81				
68 (1, 12A)	355905.23 Natural Ground	2.03				
69 (1, 12)	355405.54 Natural Ground	2.03				







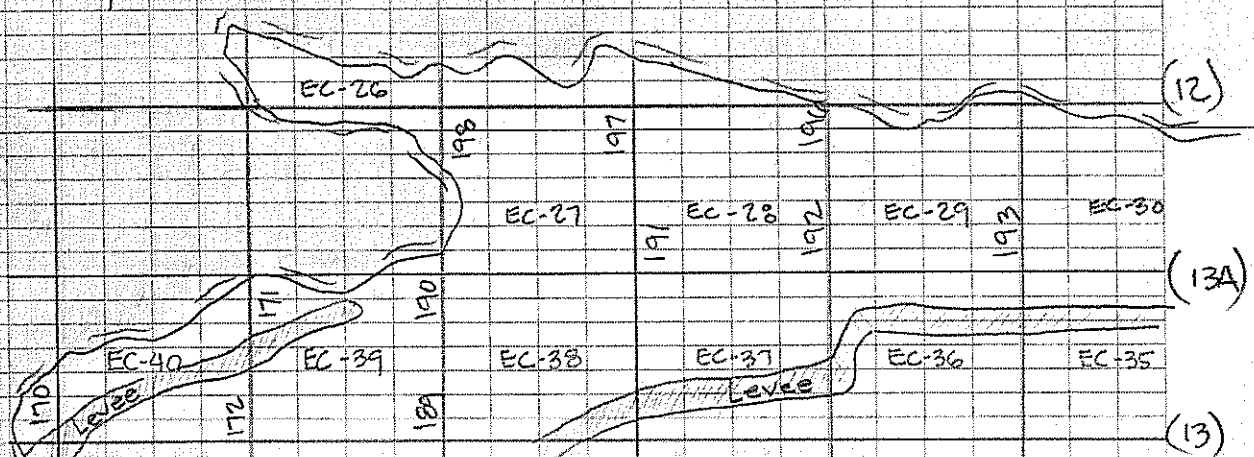




13

## Round Lake

116478	Little Lake	230000.01	Devk	231	5/12/07
P4	Cell Field Survey				
116	N	354417.26	3645694.04	2.00	
(3,13)	Natural Ground (Reebot #124)				
117	N	354907.13	3645647.51	1.97	
(3,13A)	Natural Ground				
118	N	355408.18	3645623.44	2.07	
(3,12)	Natural Ground				
119	N	355909.38	3645397.79	2.02	
(3,12A)	Natural Ground				
120	N	355428.89	3645957.25	1.38	
(4A,12)	Natural Ground				
121	N	354908.03	3646138.69	1.60	
(4A,13A)	Natural Ground				
122	N	354410.3	3646155.39	2.13	
(4A,13)	Natural Ground				
123	N	353908.46	3646167.40	1.85	
(4A,14A)	Natural Ground				
124	N	353410.12	3646186.08	1.22	
(4A,14)	Natural Ground				
125	N	352910.97	3646101.21	1.31	
(4,15A)	Natural Ground				
126	N	352910.57	3646203.09	1.86	
(4A,15A)	Natural Ground				
127	N	352411.51	3646216.81	2.18	
(4A,15)	Natural Ground				



14

## Round Lake

231

5/16/07

(12)

(13A)

EC-30

194

EC-31

195

EC-32

EC-33

John the Fool  
Bayou

EC-35

EC-34

(13)

(10B)

Derek

23000001

Little Lake

Cell Field Survey

PT	N	E	Elev.
128	351910.06	3646223.07	2.09
(4A, 16A)	Natural Ground		
129	351418.31	3646317.88	2.20
(4A, 16)	Natural Ground		
130	351412.06	3646750.76	2.10
(4, 16)	Natural Ground		
131	351912.67	3646732.35	1.43
(4, 16A)	Natural Ground		
132	352412.30	3646717.04	1.24
(4, 15)	Natural Ground		
133	353411.56	3646688.69	2.22
(4, 14)	Natural Ground		
134	353911.39	3646647.49	2.13
(4, 14A)	Natural Ground		
135	354251.04	3646657.80	1.94
4, 13B	Natural Ground		
136	354312.19	3647158.74	1.59
(5A, 13)	Natural Ground		
137	353911.06	364716.73	0.79
(5A, 14A)	Natural Ground		
138	353408.55	3647183.93	1.56
(5A, 14)	Natural Ground		
139	352912.22	3647202.35	1.70
(5A, 15A)	Natural Ground		

116478	Little Lake	2300000	23	5/6/07	15
P4	Cell Field Survey				
	N	E			
140	352424.40	3647229.04			
(5A, 15)	Natural Ground				
141	351910.82	3647232.34			
(5A, 16A)	Natural Ground				
142	351412.15	3647251.07			
(5A, 16)	Natural Ground				
143	351413.66	3647749.73			
(5, 16)	Natural Ground				
144	351912.56	3647732.48			
(5, 16A)	Natural Ground				
145	352413.10	3647716.80			
(5, 15)	Natural Ground				
146	352914.30	3647701.74			
(5, 15A)	Natural Ground				
147	353413.18	3647686.13			
(5, 14)	Natural Ground				
148	353914.56	3647675.63			
(5, 14A)	Natural Ground				
149	354052.77	3647668.91			
(5, 13B)	Natural Ground				
150	354073.03	3648165.69			
(6A, 13B)	Natural Ground				
151	353916.17	3648169.82			
(6A, 14A)	Natural Ground				

116478

N

Little Lake

230000 W

by wire

231

5/16/07

16

Pt	Elev.	Cell Field Survey		Elev.
		E	W	
152	353414.13	3648184.90	2.17	
(6A, 14)	Natural Ground			
153	352914.67	3648202.16	0.94	
(6A, 15A)	Natural Ground			
154	352415.00	3648216.98	2.05	
(6A, 15)	Natural Ground			
155	351913.91	3648232.59	1.87	
(6A, 16A)	Natural Ground			
156	351416.48	3648250.62	2.45	
(6A, 16)	Natural Ground			
157	350914.48	3648265.97	1.11	
(6A, 17A)	Natural Ground			
158	349508.30	3647711.01	3.88	
	Close Out # 100			
	X 2 3			
159	353905.99	3644667.93	0.78	
(2, 14A)	Natural Ground			
160	353405.84	3644684.76	1.24	
(2, 14)	Natural Ground			
161	353407.35	3645186.67	1.47	
(3A, 15)	Natural Ground			
162	351402.52	3645251.08	3.05	
(3A, 16)	Natural Ground			



231  
5/16/07

Ray  
Devel.

116478	Little Lake	230006W1		
	Cell Field Survey			
PT	N	E		Elev.
164	351415.43	3648766.15		0.99
(6,16)	Natural Ground			
165	351915.59	3648733.54		2.41
(6,16A)	Natural Ground			
166	352405.48	3648717.75		1.90
(6,15)	Natural Ground			
167	352913.36	3648703.17		1.32
(6,15A)	Natural Ground			
168	353415.64	3648683.92		1.09
(6,14)	Natural Ground			
169	353912.45	3648668.84		1.04
(6,14A)	Natural Ground			
170	354292.67	3648661.47		1.45
(6,13)	Natural Ground			
171	354749.03	3649147.41		1.78
(7A,13A)	Natural Ground			
172	354414.99	3649154.90		1.91
(7A,13)	Natural Ground			
173	353914.76	3649170.39		1.63
(7A,14A)	Natural Ground			
174	353416.59	3649185.86		1.55
(7A,14)	Natural Ground			
175	352916.82	3649204.29		1.37
(7A,15A)	Natural Ground			

116478

Little Lake

23000 W

231

Serele

5/29/07

18

Pt

N

E

Cell Field Survey

Elev.

176  
(7A, 15)

352417.02

Natural

3649723.60

2.26

177

351419.89

Natural

3649754.99

1.80

(7A, 16)

Natural Ground

178

351916.44

Natural

3649736.66

1.88

(7A, 16A)

Natural

Natural Ground

179

351918.85

Natural

3649735.21

1.65

(7, 16A)

Natural

Natural Ground

180

351418.39

Natural

364974.35

1.25

(7, 16A)

Natural

Natural Ground

182

351917.41

Natural

3650205.94

1.04

(8A, 16A)

Natural

Natural Ground

183

352419.74

Natural

3650088.83

1.33

(8A, 15)

Natural

Natural Ground

184

352417.28

Natural

3649717.54

1.34

(7, 15)

Natural

Natural Ground

185

352918.57

Natural

3649702.99

0.99

(7, 15A)

Natural

Natural Ground

186

353417.59

Natural

3649581.94

1.27

(7, 14)

Natural

Natural Ground

187

353917.96

Natural

3649672.34

-0.25

(7B, 14A)

Natural

Natural Ground

188

353918.09

Natural

3649672.46

-0.37

(7, 14A)

Natural

Natural Ground

116478

Little Lake

Ray

231

5/29/67

19

Boondereck

Cell Field Survey

Elev.

N

E

189 354416.39 3649656.54 0.78

Natural Ground

190 354915.92 3649637.51 1.79

Natural Ground

191 354918.11 3650136.26 2.53

Natural Ground

192 354922.17 3650639.52 1.71

Natural Ground

193 354922.23 3651138.50 -0.83

Natural Ground

194 354921.59 3651636.81 0.12

Natural Ground

195 354922.56 3652138.83.71 0.89

Natural Ground

196 355418.35 3650623.71 0.09

Natural Ground

197 355418.37 3650124.83 1.51

Natural Ground

198 355416.84 3649624.46 1.27

Natural Ground

231

20

Boy  
230000 W. Park

5/30/07

Little Lake

E

Elev

116478

Rt

N

N 203

200

349534.27

3642752.20

1.14

Tip of Water

201

363981.54

363872.93

2.95

Check # 1

203

352904.10

3643699.85

1.66

(1, 15A)

Natural Ground

204

352906.70

3644198.55

2.41

(2A, 15A)

Natural Ground

205

352903.48

3644721.86

2.06

(2, 15A)

Natural Ground

206

352908.96

3645199.85

2.07

(3A, 15A)

Natural Ground

207

352404.98

3645218.71

3.02

(3A, 15)

Natural Ground

208

351901.43

3645235.26

1.35

(3A, 16A)

Natural Ground

209

351909.23

3644733.05

1.95

(2, 16A)

Natural Ground

211

352403.35

3644717.27

2.19

(2, 15)

Natural Ground

212

352405.86

3644219.54

2.07

(2A, 15)

Natural Ground

213

351908.24

3644233.48

1.71

(2A, 16A)

Natural Ground



116478

Little Lake

230000 W1 Creek

Cell Field Survey

R4

N

E

Elev

215 351906.65 3643735.73 1.80

(1, 16A)

Natural Ground

216 357403.65 3643715.36 2.32

(1, 15)

Natural Ground

217 352400.82 3643215.93 1.37

(1A, 15)

Natural Ground

219 351911.30 3643253.77 1.09

(1A, 16A)

Natural Ground

220 351407.93 3643746.58 1.20

(1, 16)

Natural Ground

221 351403.34 3644246.59 1.55

(2A, 16)

Natural Ground

222 351406.30 3644742.18 1.40

(2, 16)

Natural Ground

A 2 3

1000 349534.30 3642752.16 1.14

Top of

Water

1001 363981.50 3638772.93 2.95

Check # 1

1213 350224.85 3644785.46 1.70

(2, 17B)

Natural Ground

1218 350919.69 3649988.07 0.37

(7B, 17A)

Natural Ground

231

5/30/07

21

5/31/07

Day  
Terek

116478	Little Lake	230000W	
Pl	N	E	Ele
1219	351200.55	3650257.24	0.9-
(8A, 14B)	Natural Ground		
1220	351421.09	3650659.95	0.20
(8, 14)	Natural Ground		
1222	351421.15	3650249.37	1.32
(8A, 14)	Natural Ground		
1223	352918.21	3649803.40	1.46
(7B, 15A)	Natural Ground		
1224	353036.95	3649701.53	1.53
(7, 14B)	Natural Ground		
1225	353635.33	3649679.68	1.21
(7, 14B)	Natural Ground		
1226	354538.56	3650125.89	2.28
(8A, 13B)	Natural Ground		
1227	354611.82	3650649.47	2.03
(8, 13B)	Natural Ground		
1228	354838.64	3651140.32	1.75
(9A, 13B)	Natural Ground		
1229	354922.94	3652303.29	1.95
(10B, 13A)	Natural Ground		
1231	357003.16	3642620.73	1.17
(1B, 11A)	Natural Ground		
1232	356939.15	3644574.48	0.90
(2, 11A)	Natural Ground		

23

231

6/11/07

P4

130006W1

Little Lake

Pl.	N	E	Elev
1234	356407.80	3645246.87	1.33
(3, 11)	Natural Ground		
1235	354910.42	3646203.48	1.40
(4B, 13A)	Natural Ground		
1236	354410.02	3646550.87	1.48
(4, 13)	Natural Ground		
1237	354414.52	3648777.98	1.92
(6B, 13)	Natural Ground		
1238	355304.25	3651625.85	1.28
(9, 12)	Natural Ground		
1239	355363.68	3652125.06	1.33
(10A, 12)	Natural Ground		
1240	355103.11	3652635.88	1.00
(10, 12B)	Natural Ground		
1241	354826.00	3652144.70	1.04
(10A, 13B)	Natural Ground		
1242	354416.86	3645692.88	2.35
(3, 13)	Natural Ground		
1245	352907.41	3644702.25	1.51
(9, 15B)	Natural Ground		
1246	355432.55	3651106.72	1.14
(9A, 12)	Natural Ground		
1247	363981.51	3638773.03	2.96
	Close out #	1	

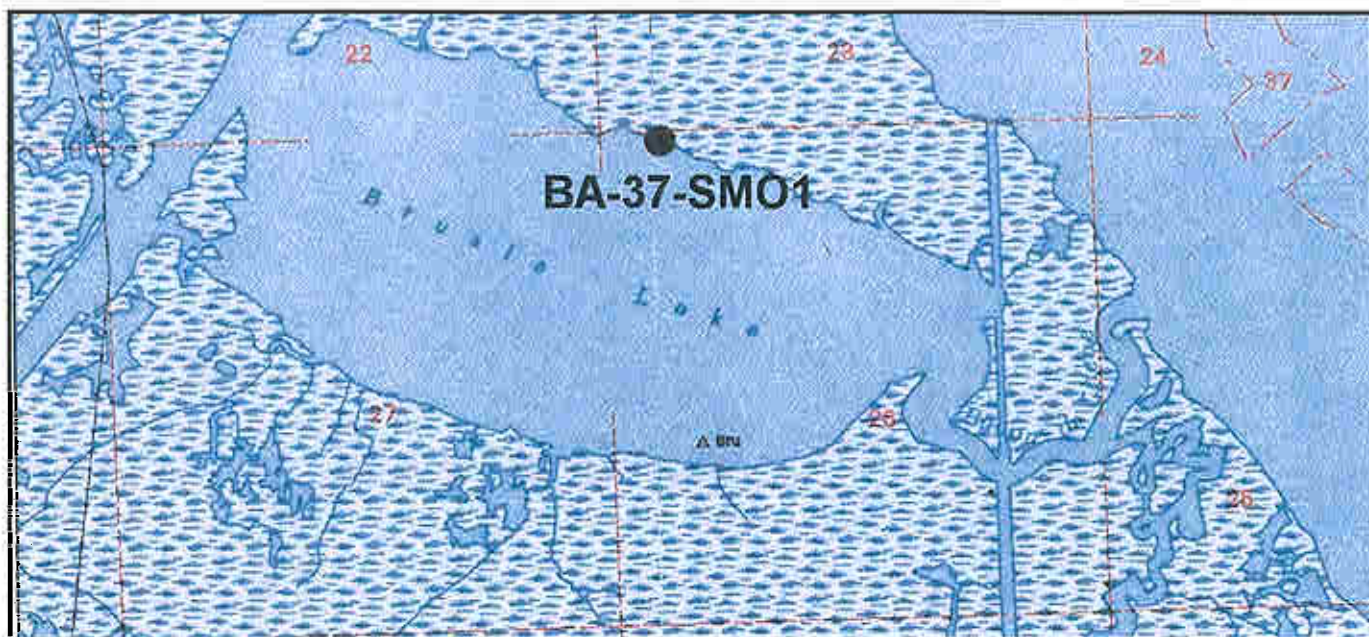
---

## **Appendix A**

### **Secondary Monument Data Sheet**

---





**VICINITY MAP** Scale: 1" = 2000'

Reproduced from USC&GS "Golden Meadow Farms" Quadrangle

## Station Name: "SM01"

**Location:** The monument stamped BA-37-SMO1 is located near the north shore of Brusle Lake in Lafourche Parish, Louisiana. The monument is approximately 11.8 miles southwest of the intersection of Bayou Lafourche and the Gulf Intracoastal Waterway in Larose, Louisiana.

**Monument Description:** NGS style floating sleeve monument; datum point set on 9/16" stainless steel sectional rods driven 88 feet to refusal, set in sand filled 6" PVC pipe with access cover set in concrete, flush with ground.

**Stamping:** BA-37-SMO1

**Installation Date:** 08-15-02 **Date of Survey:** August 16 and 17, 2002

**Monument Established By:** T. Baker Smith & Son, Inc.

**For:** Louisiana Department of Natural Resources, CRD

### Adjusted NAD 83 Geodetic Position

Lat. 29°29' 45.72302" N

Long. 90°12' 29.46131" W

### Adjusted NAD 83 Datum LSZ (1702) Feet

N= 363,981.440

E= 3,638,772.849

### Adjusted NAVD88 Height

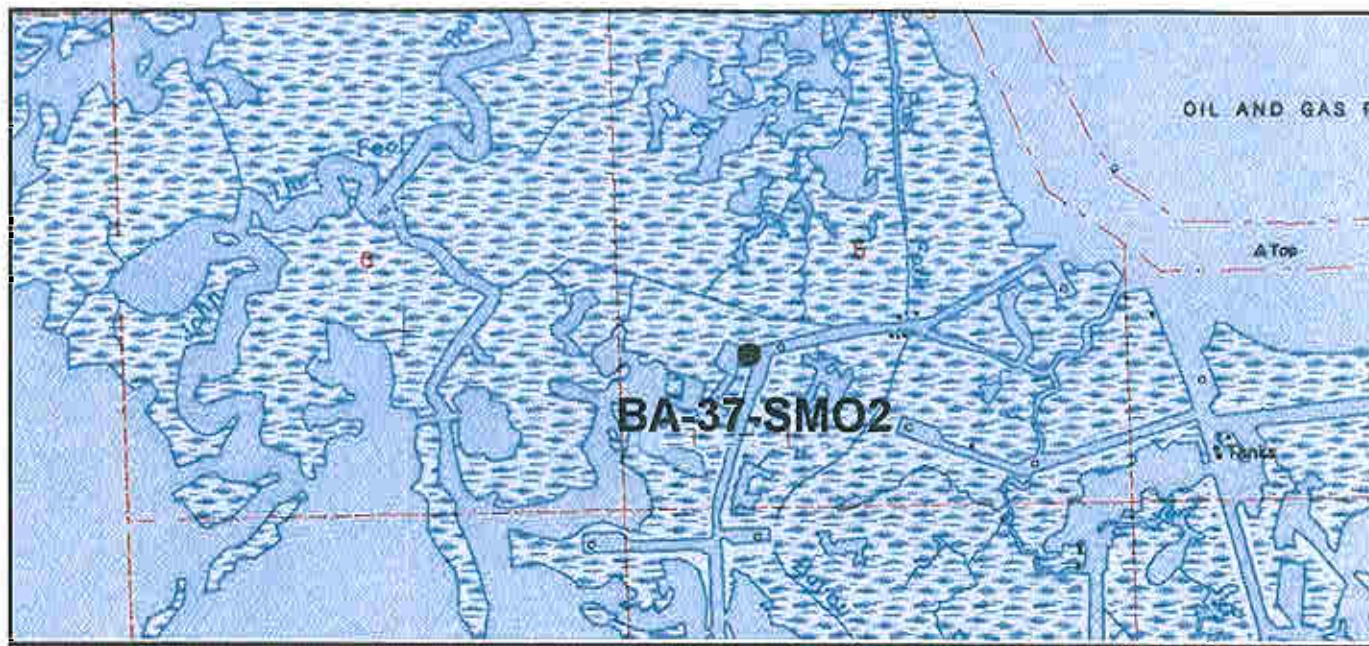
Elevation = 2.981 feet (.909 mtrs)

Geoid99 Height = -24.899 mtrs.

Ellipsoid Height = -23.990 mtrs.







**VICINITY MAP** Scale: 1" = 2000'

Reproduced from USC&GS "Golden Meadow Farms" Quadrangle

## Station Name: "SM02"

**Location:** The monument stamped BA-37-SM02 is located just less than 2 miles south Plum Point which is located within Little Lake in Lafourche Parish, Louisiana. The monument is approximately 13.9 miles southwest of the intersection of Bayou Lafourche and the Gulf Intracoastal Waterway in Larose, Louisiana

**Monument Description:** NGS style floating sleeve monument; datum point set on 9/16" stainless steel sectional rods driven 104 feet to refusal, set in sand filled 6" PVC pipe with access cover set in concrete, flush with ground.

**Stamping:** BA-37-SM02

**Installation Date:** August 15, 2002 **Date of Survey:** August 16 and 17, 2002

**Monument Established By:** T. Baker Smith & Son, Inc

**For:** Louisiana Department of Natural Resources, CRD

### Adjusted NAD 83 Geodetic Position

Lat. 29°27' 28.30362" N

Long. 90°09' 18.99432" W

### Adjusted NAD 83 Datum LSZ (1702) Feet

N= 350,270.145

E= 3,655,746.234

### Adjusted NAVD88 Height

Elevation = 3.384 feet (1.031 mtrs)

Geoid99 Height = -24.760 mtrs.

Ellipsoid Height = -23.729 mtrs.



---

## **Appendix B**

### **Survey Report and Data (CD-ROM)**

---

---

## **Appendix C**

### **Land Surveyor's Certificate**

---





Shaw Coastal, Inc.  
197 Elysian Drive  
Houma, LA 70363  
Toll Free: 888.230.2332  
Office: 985.868.3434  
Fax: 985.868.8513

September 4, 2007

**Reference:** Louisiana Department of Natural Resources  
Little Lake Shoreline Protection  
Dedicated Dredging Near Round Lake Project (BA-37)  
Post Construction Survey Report  
SCI Project No. 116478

To Whom it May Concern:

This is to certify that the report and data provided by Shaw Coastal, Inc. (SCI) to the Louisiana Department of Natural Resources (LDNR) as deliverables for the above referenced project have been reviewed by me and the information represents SCI's best efforts to obtain, analyze and compile available data.

Michael P. D'Angelo, P.E., P.L.S.  
Shaw Coastal, Inc.  
197 Elysian Drive  
Houma, Louisiana 70363

License Number, Seal,  
Signature and Date.

