

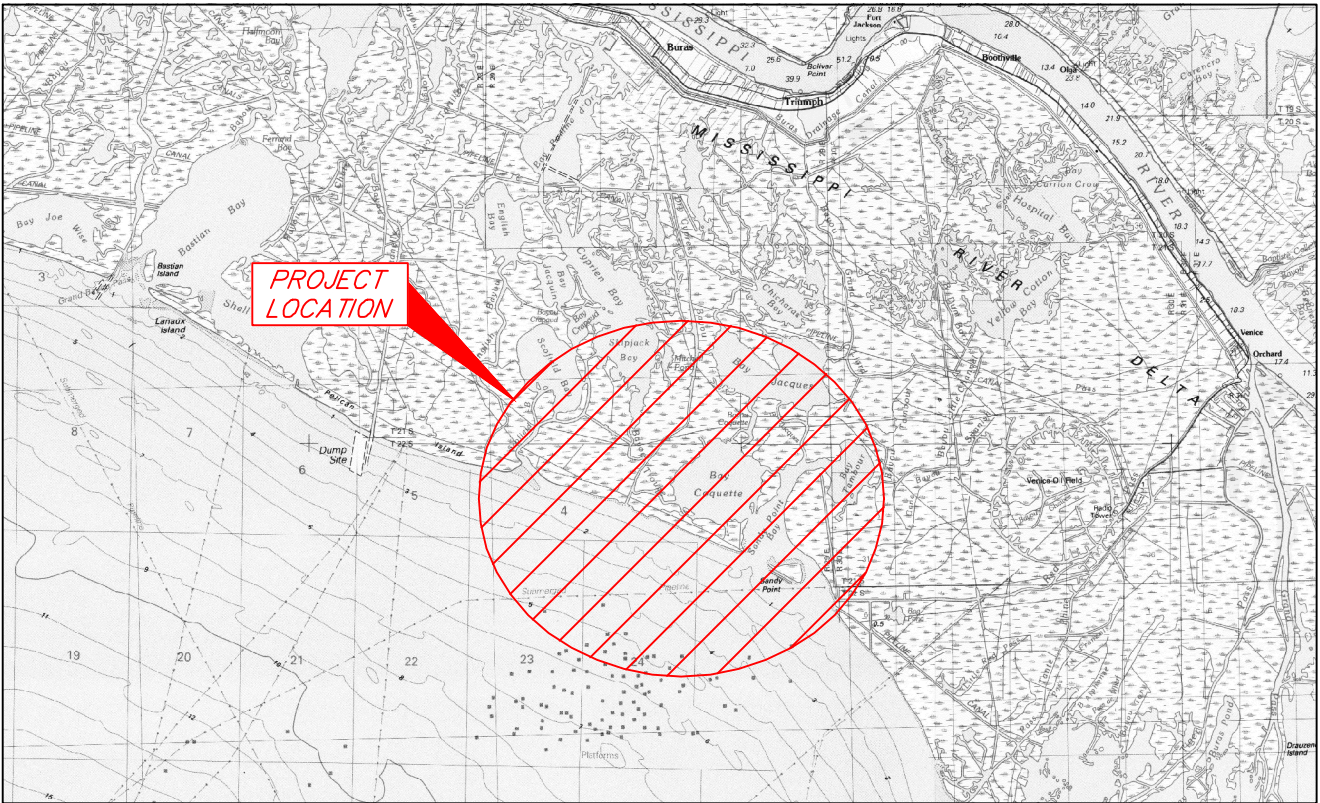
WEEKS MARINE, INC.

GRAND LIARD
MARSH AND RIDGE RESTORATION PROJECT

**PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL**

STATE PROJECT NUMBER: BA-68

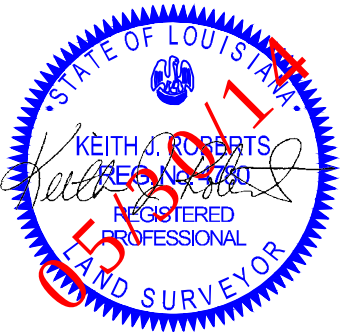
PLAQUEMINESS PARISH, LA



VICINITY MAP (N.T.S.)

INDEX TO SHEETS

SHEET NO.	DESCRIPTION
1	TITLE PAGE
2	OVERALL PLAN VIEW
3 - 17	DREDGE DISCHARGE LINE ACCESS CHANNEL
18	MAGNETOMETER ANOMALY TABLES



THIS MAP REPRESENTS AN ACTUAL FIELD SURVEY MADE UNDER DIRECT SUPERVISION OF THE UNDERSIGNED.

Keith J. Roberts

KEITH J. ROBERTS, PLS # 4780
202 JACOBS RUN
SCOTT, LOUISIANA 70583
(337) 706-8219

REVISED BY:	DATE:
PLAN SCALE SCALE: NTS	
DATE: 05/30/14	JOB# 2141018

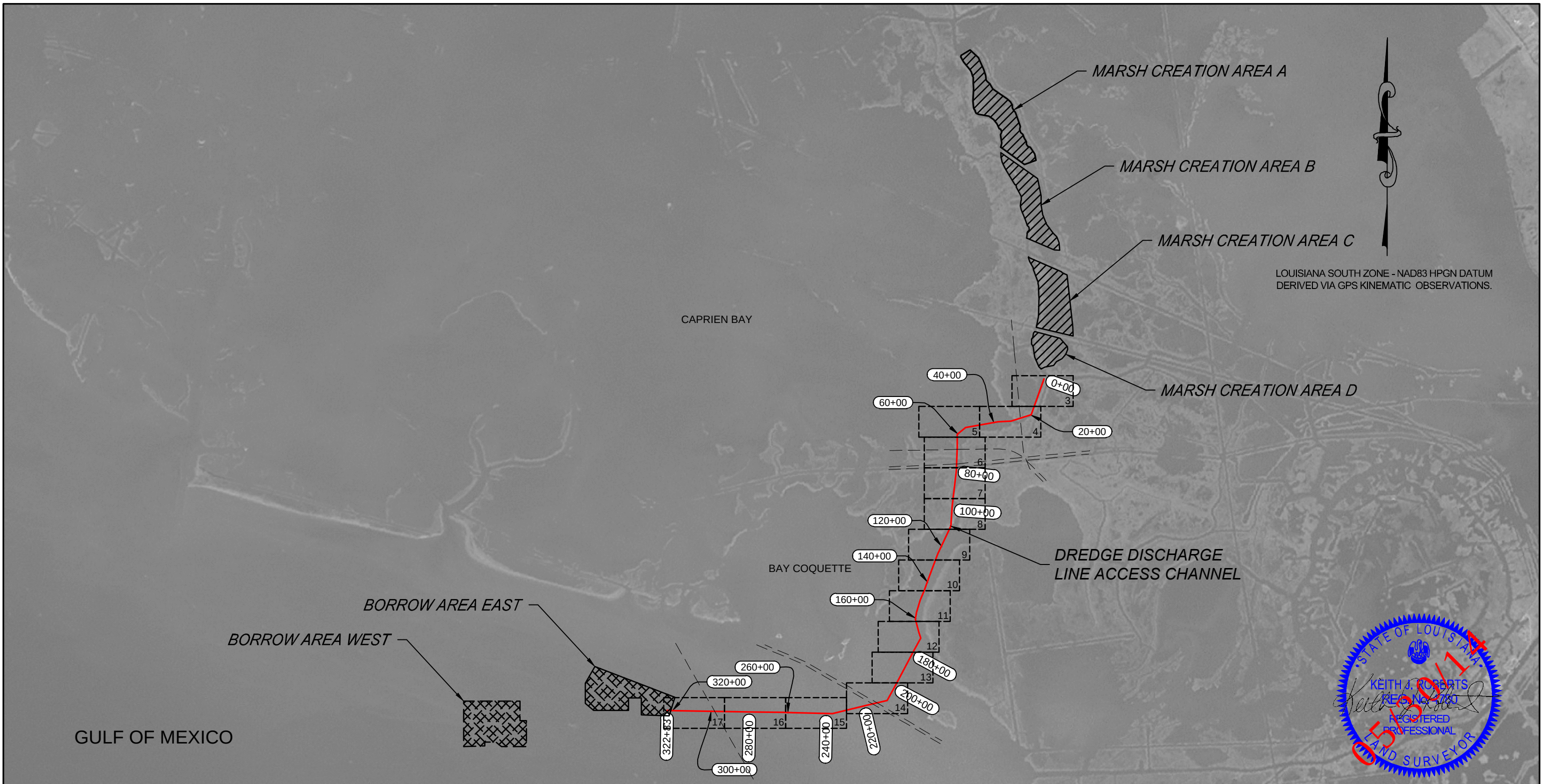


WEEKS MARINE, INC.
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MARSH AND RIDGE RESTORATION PROJECT
PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
TITLE PAGE
PLAQUEMINES PARISH, LA

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

SHEET:1 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



- NOTES
1. ALL HORIZONTAL COORDINATES ARE BASED ON LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM, US SURVEY FOOT AS DERIVED FROM PROJECT CONTROL "PEN3" VIA GPS KINEMATIC OBSERVATIONS.
 2. ELEVATIONS ARE BASED ON NAVD 88 US SURVEY FEET (GEOID 03) AS DERIVED FROM PROJECT CONTROL
 3. MAGNETOMETER SURVEY DATA ACQUISITION PERFORMED WITH DIFFERENTIAL GPS AND A GEOMETRIC 882 CESIUM MAGNETOMETER.
 4. THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF SURVEY.
 5. MAGNETOMETER SURVEY DATA ACQUISITION WAS PERFORMED ON MAY 7 AND 22, 2014.

LEGEND		REVISED BY:	DATE:
---	PIPELINE LOCATION (DNR DATABASE)		
---	DREDGE DISCHARGE LINE ACCESS CHANNEL CL (PLANS)		
---	SHEET LAYOUT		
HORIZONTAL SCALE		5000' 0' 2500' 5000'	
DATE: 05/30/14		JOB# 2141018	

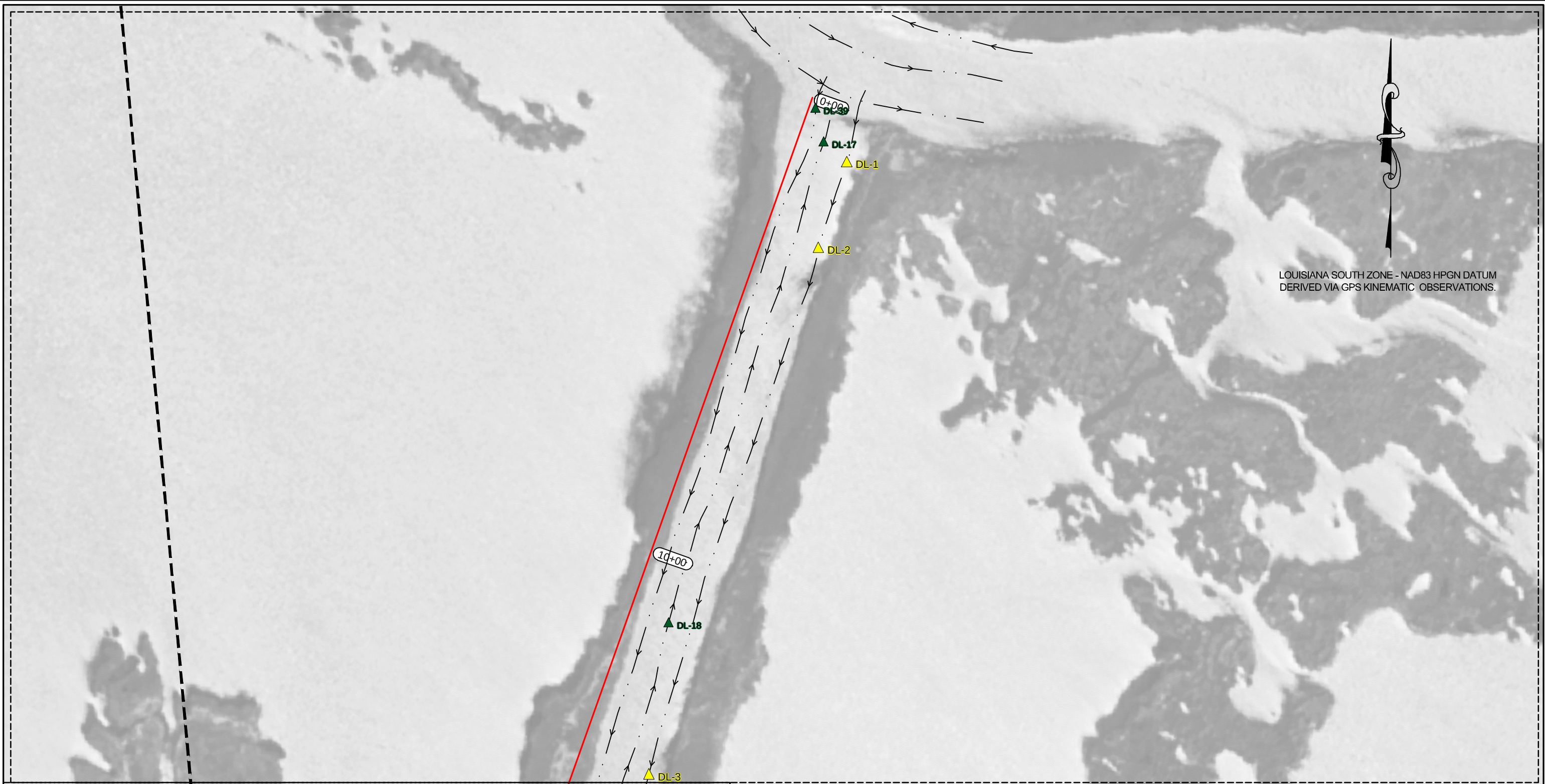


WEEKS MARINE, INC.
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MARSH AND RIDGE RESTORATION PROJECT
PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
OVERALL PLAN VIEW
PLAQUEMINES PARISH, LA

PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

SHEET:2 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



LEGEND	
LINE WORK	GAMMA AMPLITUDE
MAGNETOMETER SURVEY ROUTE	1-50 GAMMAS
PIPELINE LOCATION AS SURVEYED IN FIELD	51-100 GAMMAS
PIPELINE LOCATION (DNR DATABASE)	101-500 GAMMAS
CHANNEL CL (PLANS)	501-1000 GAMMAS
	> 1001 GAMMAS

REVISED BY:	DATE:
HORIZONTAL SCALE	
DATE: 05/30/14	JOB# 2141018

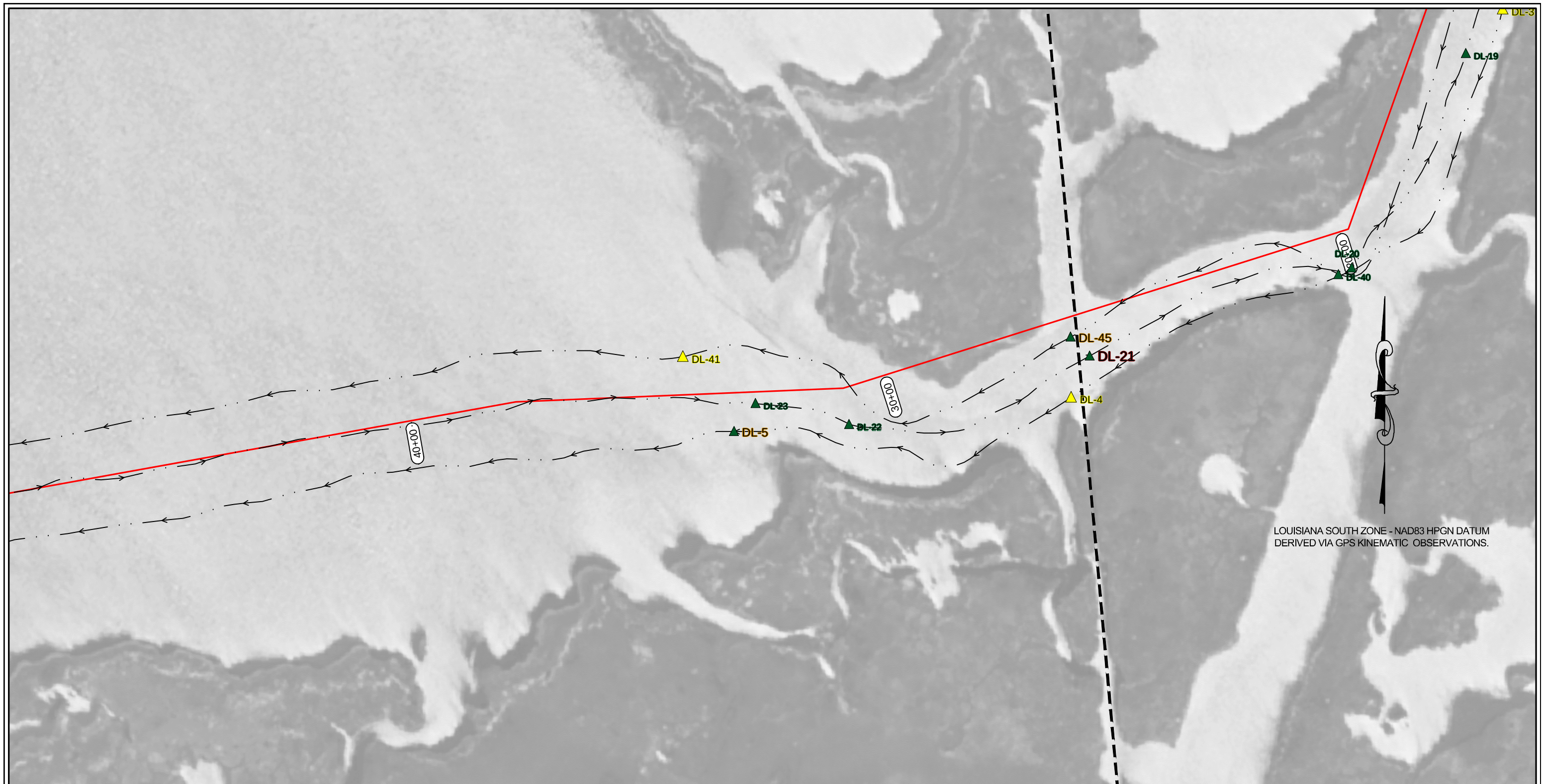


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PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
DREDGE DISCHARGE LINE ACCESS CHANNEL
PLAQUEMINES PARISH, LA

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FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

SHEET:3 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



LEGEND	
LINE WORK	GAMMA AMPLITUDE
MAGNETOMETER SURVEY ROUTE	1-50 GAMMAS
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REVISED BY:	DATE:
HORIZONTAL SCALE	
DATE: 05/30/14	JOB# 2141018



PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

WEEKS MARINE, INC.
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PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
DREDGE DISCHARGE LINE ACCESS CHANNEL
PLAQUEMINES PARISH, LA

SHEET:4 OF 18

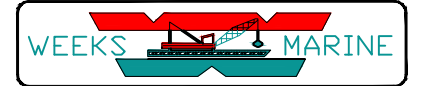


LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
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LEGEND	
LINE WORK	GAMMA AMPLITUDE
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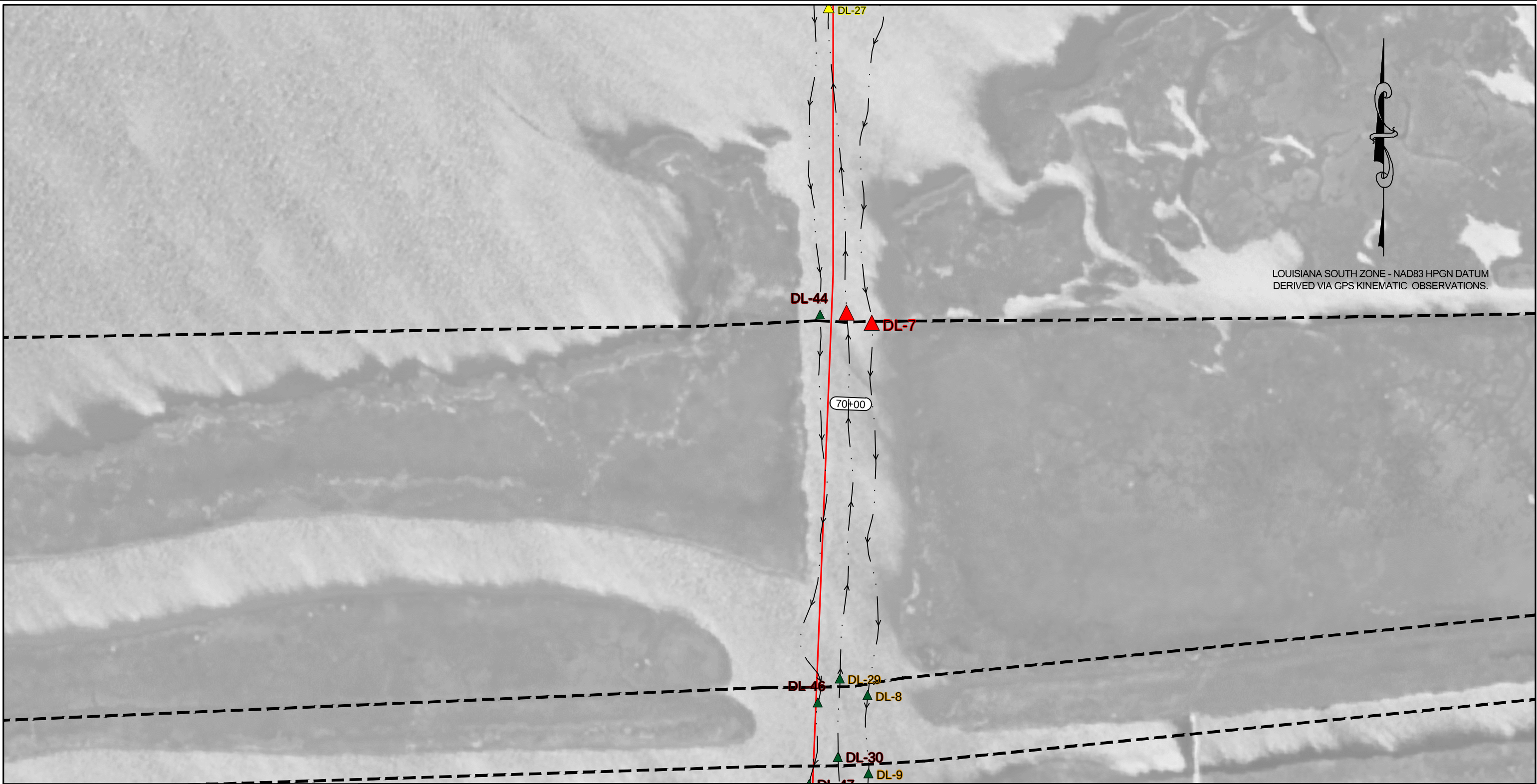



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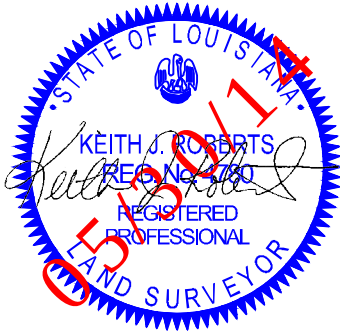
FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

WEEKS MARINE, INC.
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PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
DREDGE DISCHARGE LINE ACCESS CHANNEL
PLAQUEMINES PARISH, LA

SHEET:5 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

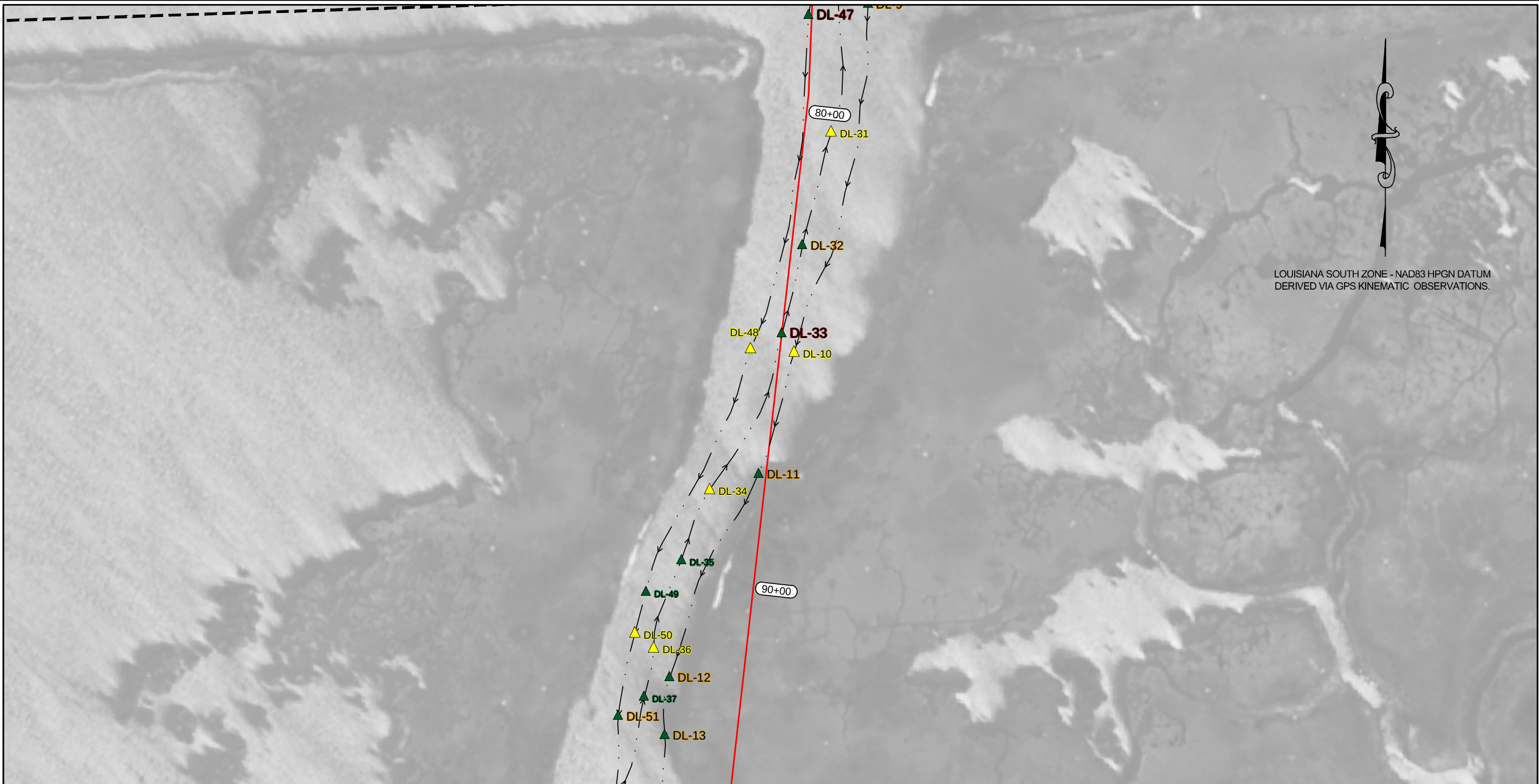


LEGEND	
LINE WORK	GAMMA AMPLITUDE
MAGNETOMETER SURVEY ROUTE	1-50 GAMMAS
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REVISED BY:	DATE:
HORIZONTAL SCALE	
DATE: 05/30/14	JOB# 2141018



WEEKS MARINE, INC. GRAND LIARD MARSH AND RIDGE RESTORATION PROJECT PRE-CONSTRUCTION MAGNETOMETER SURVEY DREDGE DISCHARGE LINE ACCESS CHANNEL DREDGE DISCHARGE LINE ACCESS CHANNEL PLAQUEMINES PARISH, LA	
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583	
FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg	SHEET:6 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



LEGEND	
LINE WORK	GAMMA AMPLITUDE
MAGNETOMETER SURVEY ROUTE	1-50 GAMMAS
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REVISED BY:	DATE:
HORIZONTAL SCALE 200' 0' 100' 200'	
DATE: 05/30/14	JOB# 2141018

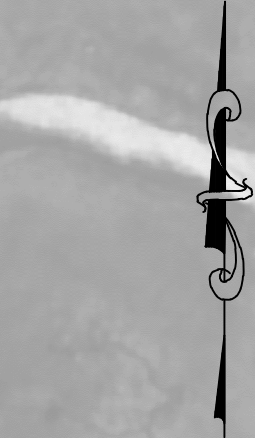
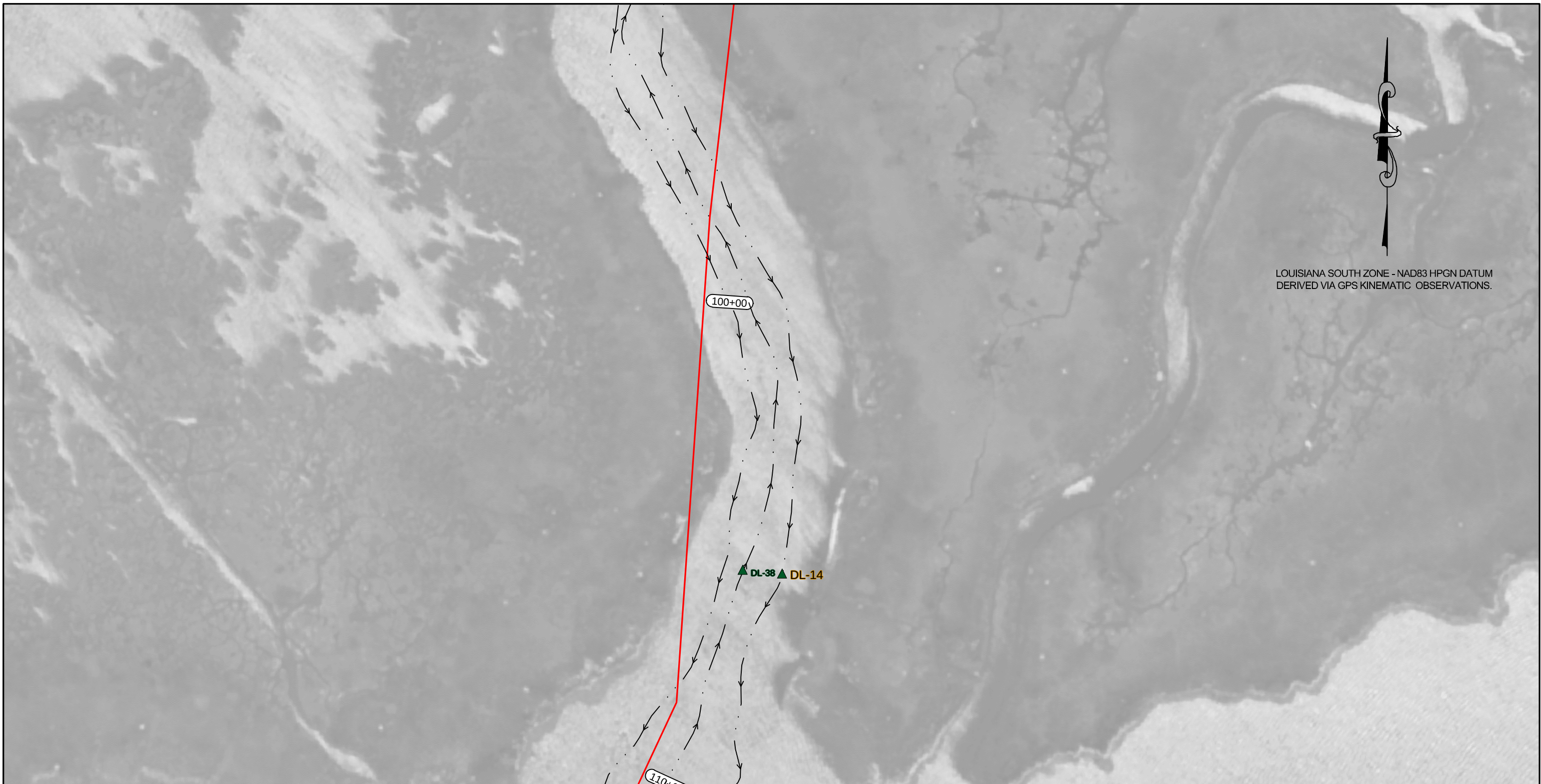


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MARSH AND RIDGE RESTORATION PROJECT
PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
PLAN VIEW
PLAQUEMINES PARISH, LA

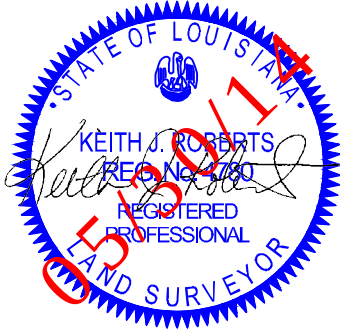
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583

FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

SHEET:7 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



LEGEND	
LINE WORK	GAMMA AMPLITUDE
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REVISED BY:	DATE:
HORIZONTAL SCALE	
DATE: 05/30/14	JOB# 2141018

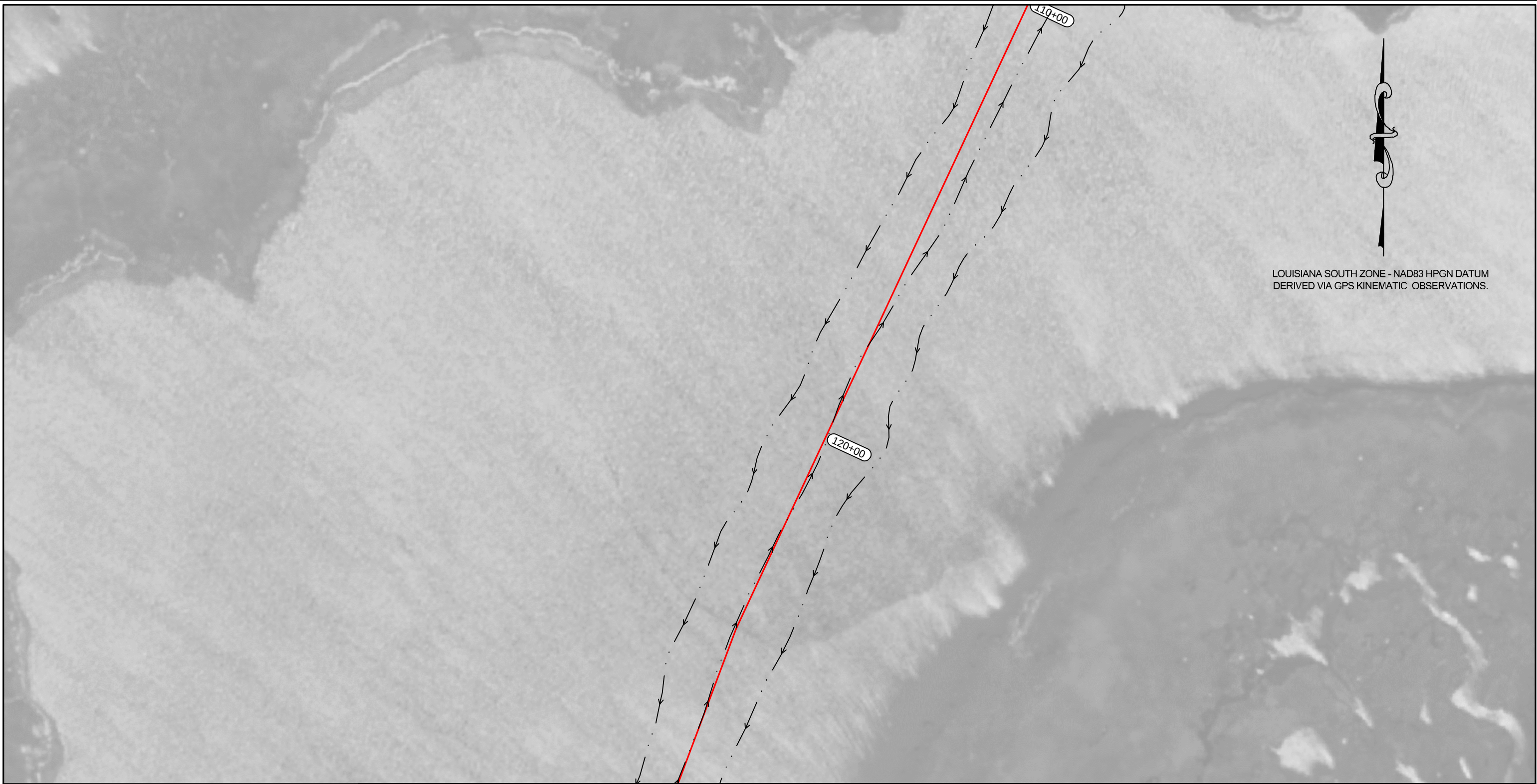


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PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
DREDGE DISCHARGE LINE ACCESS CHANNEL
PLAQUEMINES PARISH, LA

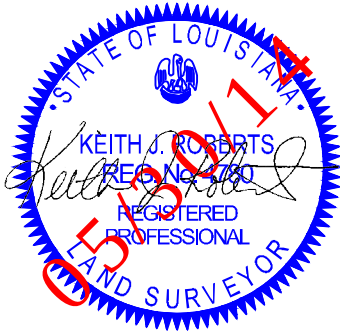
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FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

SHEET:8 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.



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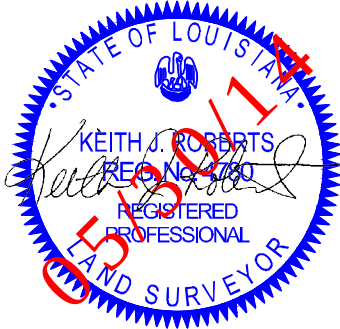
FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

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PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
DREDGE DISCHARGE LINE ACCESS CHANNEL
PLAQUEMINES PARISH, LA

SHEET:9 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
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LINE WORK	GAMMA AMPLITUDE
MAGNETOMETER SURVEY ROUTE	1-50 GAMMAS
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HORIZONTAL SCALE 200' 0' 100' 200'	
DATE: 05/30/14	JOB# 2141018



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MARSH AND RIDGE RESTORATION PROJECT
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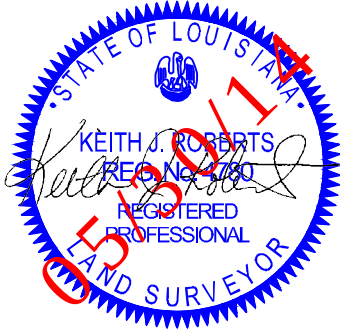
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FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

SHEET:10 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
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LINE WORK	GAMMA AMPLITUDE
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DATE: 05/30/14	JOB# 2141018

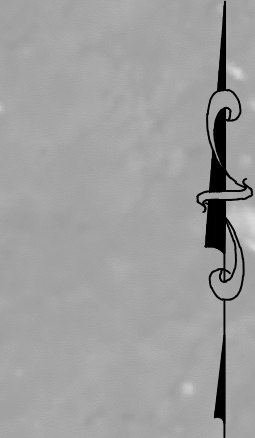
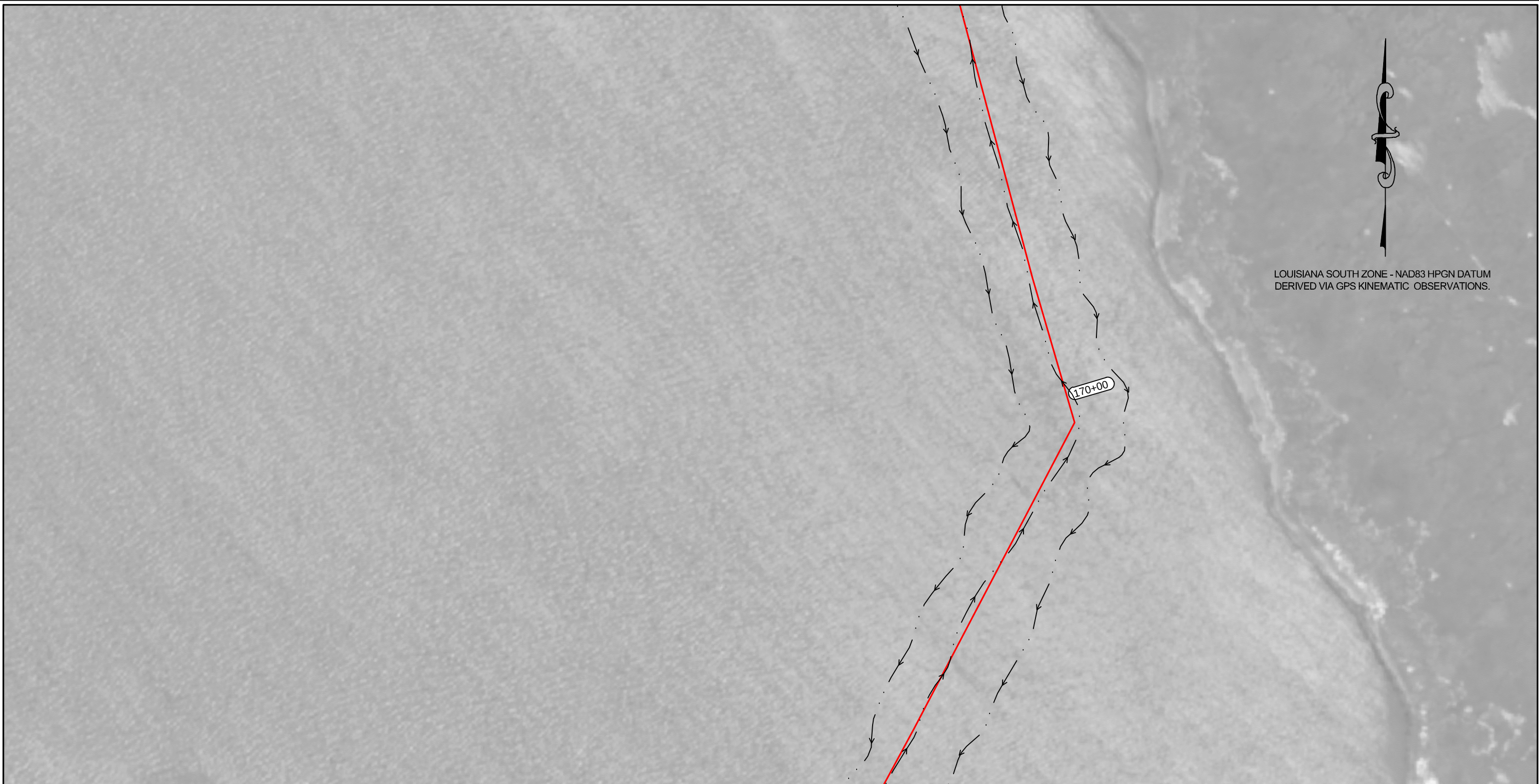


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FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

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MARSH AND RIDGE RESTORATION PROJECT
PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
DREDGE DISCHARGE LINE ACCESS CHANNEL
PLAQUEMINES PARISH, LA

SHEET:11 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
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LINE WORK	GAMMA AMPLITUDE
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HORIZONTAL SCALE	
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FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

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PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
DREDGE DISCHARGE LINE ACCESS CHANNEL
PLAQUEMINES PARISH, LA

SHEET:12 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
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LEGEND	
LINE WORK	GAMMA AMPLITUDE
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REVISED BY:	DATE:
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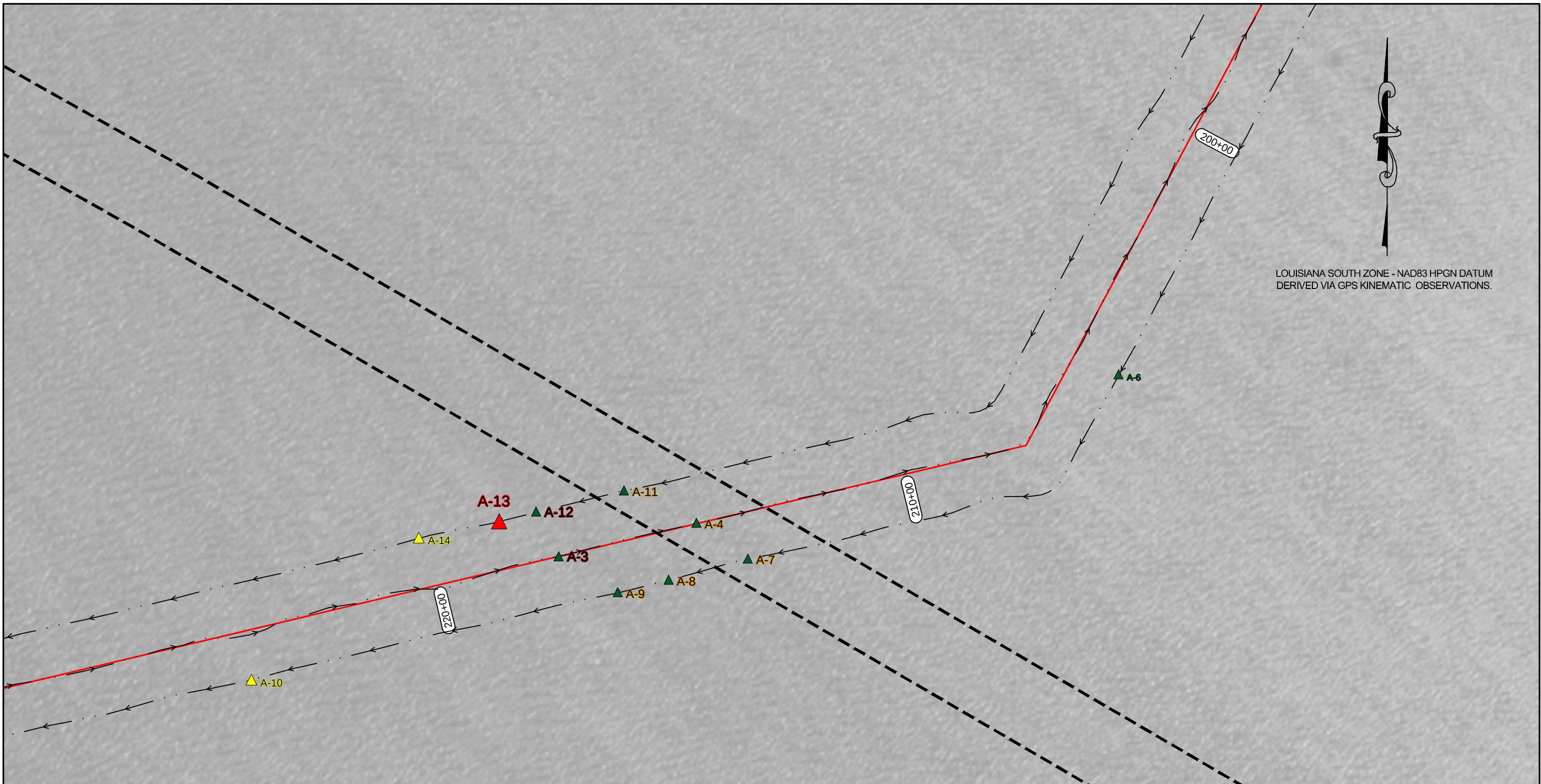


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FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

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PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
DREDGE DISCHARGE LINE ACCESS CHANNEL
PLAQUEMINES PARISH, LA

SHEET:13 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
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LEGEND	
LINE WORK	GAMMA AMPLITUDE
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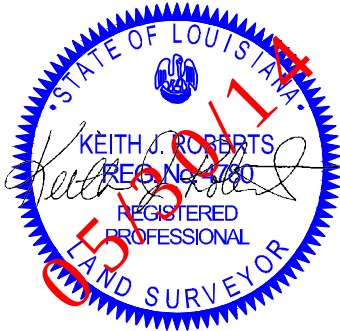
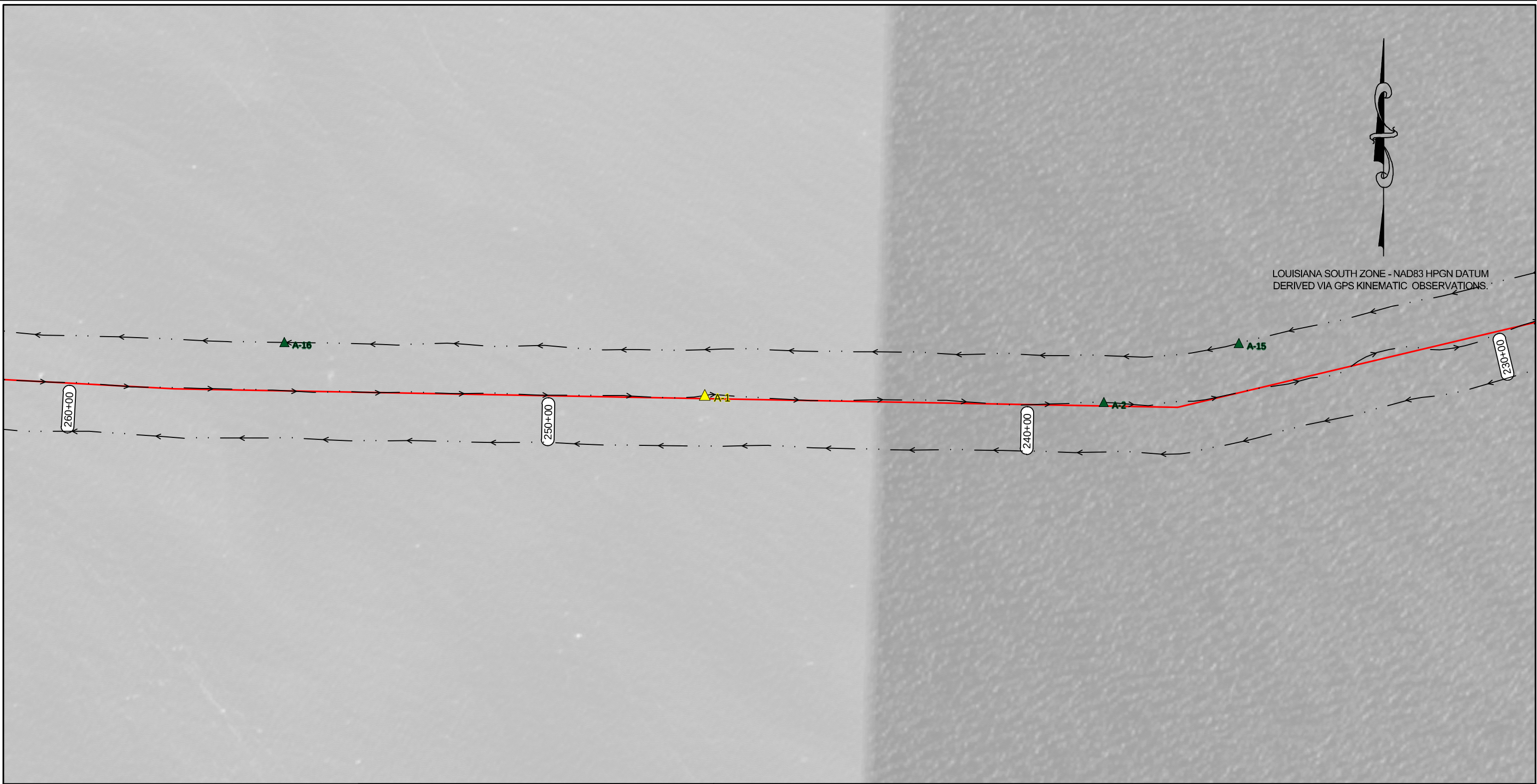
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PLAQUEMINES PARISH, LA



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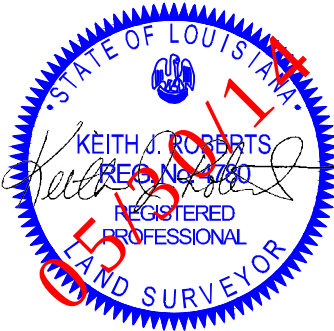
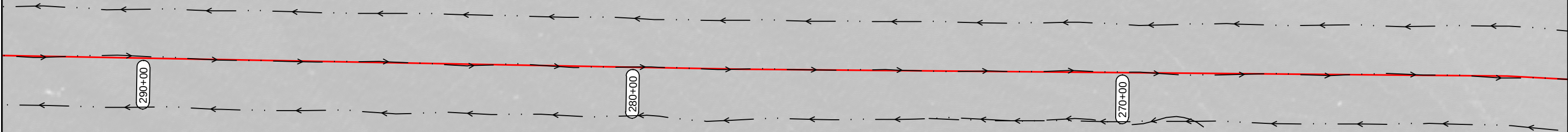
FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg

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DREDGE DISCHARGE LINE ACCESS CHANNEL
DREDGE DISCHARGE LINE ACCESS CHANNEL
PLAQUEMINES PARISH, LA

SHEET:15 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

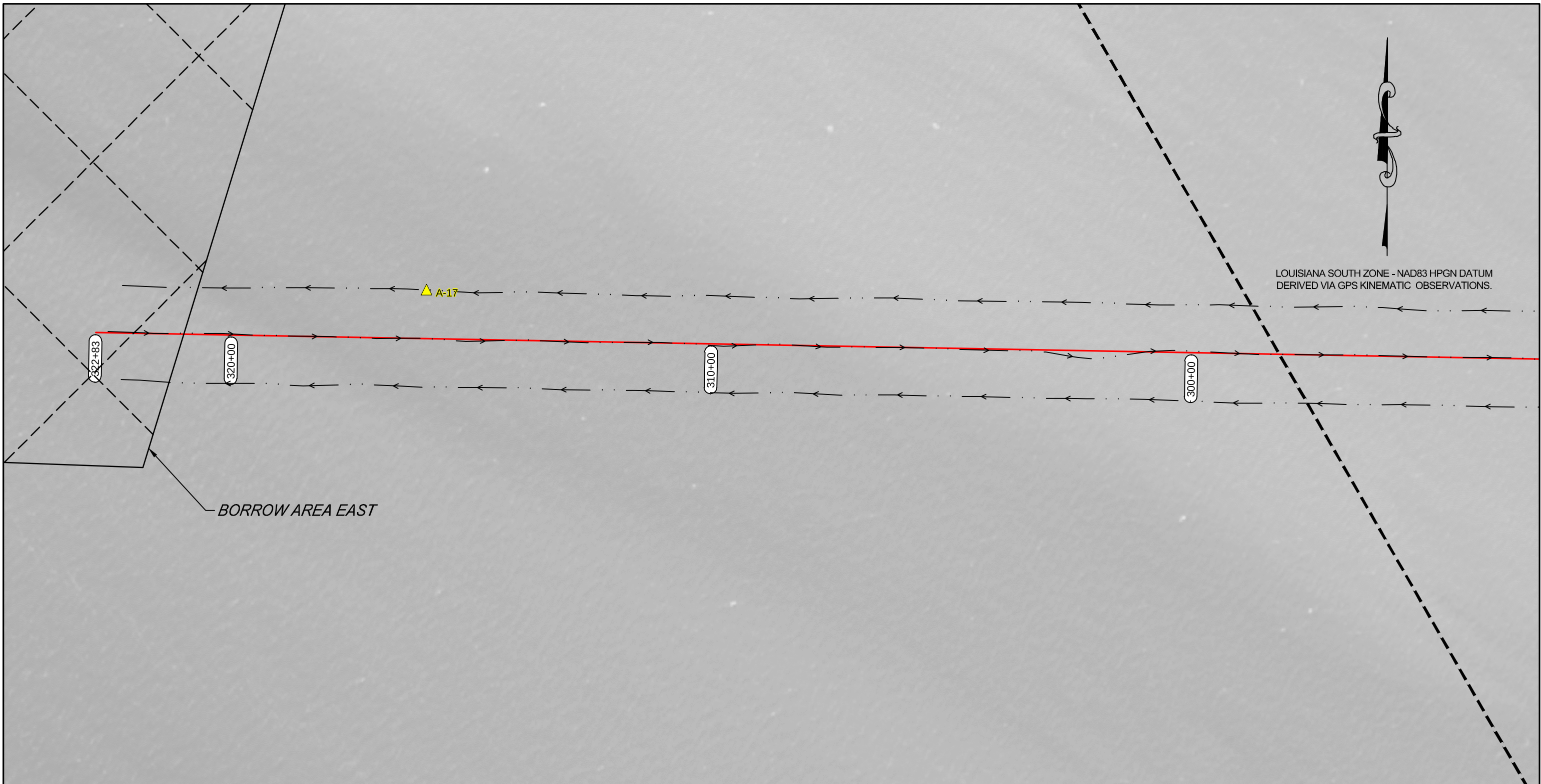


LEGEND	
LINE WORK	GAMMA AMPLITUDE
MAGNETOMETER SURVEY ROUTE	1-50 GAMMAS
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REVISED BY:	DATE:
HORIZONTAL SCALE 200' 0' 100' 200'	
DATE: 05/30/14	JOB# 2141018



WEEKS MARINE, INC. GRAND LIARD MARSH AND RIDGE RESTORATION PROJECT PRE-CONSTRUCTION MAGNETOMETER SURVEY DREDGE DISCHARGE LINE ACCESS CHANNEL DREDGE DISCHARGE LINE ACCESS CHANNEL PLAQUEMINES PARISH, LA	
PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583	
FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg	SHEET:16 OF 18



LOUISIANA SOUTH ZONE - NAD83 HPGN DATUM
DERIVED VIA GPS KINEMATIC OBSERVATIONS.

BORROW AREA EAST



LEGEND	
LINE WORK	GAMMA AMPLITUDE
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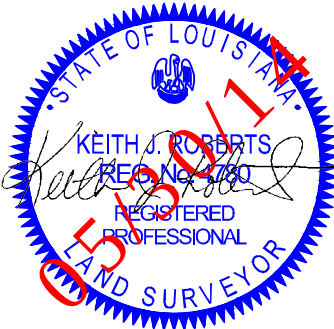
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PRE-CONSTRUCTION MAGNETOMETER SURVEY
DREDGE DISCHARGE LINE ACCESS CHANNEL
DREDGE DISCHARGE LINE ACCESS CHANNEL
PLAQUEMINES PARISH, LA

SHEET:17 OF 18

DISCHARGE LINE MAGNETIC ANOMALY TABLE						
Ref	Easting	Northing	Signature Amplitude	Signature Width	Signature Type	Description
DL-1	3876082	283705	57	84	MONOPOLE	ANOMALY
DL-2	3876023	283527	61	137	COMPLEX	ANOMALY
DL-3	3875671	282433	88	166	COMPLEX	ANOMALY
DL-4	3874767	281620	91	250	DIPOLE	PIPELINE
DL-5	3874061	281548	147	198	MONOPOLE	ANOMALY
DL-6	3871875	281104	29	26	MONOPOLE	ANOMALY
DL-7	3871567	280167	1267	354	DIPOLE	PIPELINE
DL-8	3871558	279389	121	109	DIPOLE	PIPELINE
DL-9	3871560	279226	266	212	DIPOLE	PIPELINE
DL-10	3871406	278500	85	194	MONOPOLE	ANOMALY
DL-11	3871332	278246	149	79	DIPOLE	ANOMALY
DL-12	3871146	277822	461	112	DIPOLE	ANOMALY
DL-13	3871136	277701	154	158	DIPOLE	ANOMALY
DL-14	3871380	276443	171	650	DIPOLE	ANOMALY
DL-15	3869691	272352	81	229	MONOPOLE	ANOMALY
DL-16	3868952	268937	78	108	DIPOLE	ANOMALY
DL-17	3876034	283747	42	131	DIPOLE	ANOMALY
DL-18	3875712	282748	20	95	DIPOLE	ANOMALY
DL-19	3875594	282340	36	102	DIPOLE	ANOMALY
DL-20	3875355	281891	33	169	DIPOLE	ANOMALY
DL-21	3874806	281706	743	222	MONOPOLE	PIPELINE
DL-22	3874302	281563	24	108	MONOPOLE	ANOMALY
DL-23	3874106	281607	20	235	MONOPOLE	ANOMALY
DL-24	3872020	281324	74	90	DIPOLE	ANOMALY
DL-25	3871513	281002	27	51	MONOPOLE	ANOMALY
DL-26	3871496	280906	37	84	MONOPOLE	ANOMALY

DISCHARGE LINE MAGNETIC ANOMALY TABLE						
Ref	Easting	Northing	Signature Amplitude	Signature Width	Signature Type	Description
DL-27	3871477	280825	55	90	MONOPOLE	ANOMALY
DL-28	3871514	280188	1050	354	DIPOLE	PIPELINE
DL-29	3871500	279424	156	191	DIPOLE	PIPELINE
DL-30	3871496	279260	566	271	MONOPOLE	PIPELINE
DL-31	3871483	278959	93	119	MONOPOLE	ANOMALY
DL-32	3871423	278723	165	132	DIPOLE	ANOMALY
DL-33	3871380	278539	519	169	DIPOLE	ANOMALY
DL-34	3871230	278213	88	154	DIPOLE	ANOMALY
DL-35	3871171	278066	41	112	DIPOLE	ANOMALY
DL-36	3871113	277883	61	103	DIPOLE	ANOMALY
DL-37	3871093	277781	34	156	DIPOLE	ANOMALY
DL-38	3871298	276451	35	376	MONOPOLE	ANOMALY
DL-39	3876017	283817	32	100	DIPOLE	ANOMALY
DL-40	3875327	281877	47	192	DIPOLE	ANOMALY
DL-41	3873954	281705	83	179	MONOPOLE	ANOMALY
DL-42	3872478	281508	29	86	DIPOLE	ANOMALY
DL-43	3872381	281495	30	107	DIPOLE	ANOMALY
DL-44	3871459	280184	935	333	DIPOLE	PIPELINE
DL-45	3874766	281746	104	253	DIPOLE	PIPELINE
DL-46	3871454	279374	846	131	MONOPOLE	PIPELINE
DL-47	3871436	279203	933	510	MONOPOLE	PIPELINE
DL-48	3871315	278507	58	184	DIPOLE	ANOMALY
DL-49	3871097	278000	50	63	MONOPOLE	ANOMALY
DL-50	3871074	277914	71	93	DIPOLE	ANOMALY
DL-51	3871039	277741	346	194	DIPOLE	ANOMALY

ACCESS MAGNETIC ANOMALY TABLE						
Ref	Easting	Northing	Signature Amplitude	Signature Width	Signature Type	Description
A-1	3863998	266444	62	229	DIPOLE	ANOMALY
A-2	3864831	266429	23	162	DIPOLE	ANOMALY
A-3	3866876	266867	833	571	DIPOLE	PIPELINE
A-4	3867163	266937	446	333	DIPOLE	PIPELINE
A-5	3868549	268407	70	92	DIPOLE	ANOMALY
A-6	3868042	267246	28	130	DIPOLE	ANOMALY
A-7	3867270	266862	495	250	MONOPOLE	PIPELINE
A-8	3867105	266818	395	161	DIPOLE	PIPELINE
A-9	3866999	266792	372	225	COMPLEX	ANOMALY
A-10	3866236	266610	82	115	COMPLEX	ANOMALY
A-11	3867012	267004	450	307	MONOPOLE	ANOMALY
A-12	3866829	266960	554	135	MONOPOLE	PIPELINE
A-13	3866752	266940	1307	192	DIPOLE	PIPELINE
A-14	3866585	266906	67	45	MONOPOLE	ANOMALY
A-15	3865113	266552	25	90	MONOPOLE	ANOMALY
A-16	3863120	266554	19	83	MONOPOLE	ANOMALY
A-17	3857080	266666	88	277	MONOPOLE	ANOMALY



REVISED BY: DATE:	 	WEEKS MARINE, INC. GRAND LIARD MARSH AND RIDGE RESTORATION PROJECT PRE-CONSTRUCTION MAGNETOMETER SURVEY DREDGE DISCHARGE LINE ACCESS CHANNEL MAGNETOMETER ANOMALY TABLE PLAQUEMINES PARISH, LA					
				PREPARED BY: HYDROTERRA TECHNOLOGIES, LLC. - 202 JACOBS RUN, SCOTT, LA 70583			
				DATE: 05/30/14	JOB# 2141018	FILE: Pre-Construction Magnetometer Survey - Dredge Discharge Line Access CHANNEL.dwg	SHEET:18 OF 18