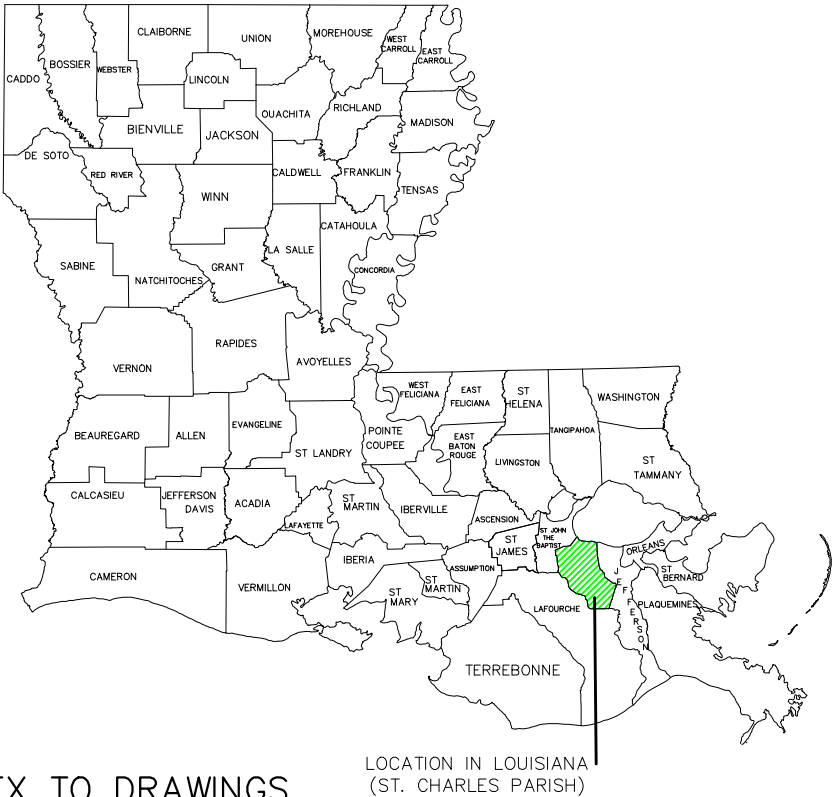




PO-133 LaBRANCHE CENTRAL MARSH CREATION
BUILT UNDER THE COASTAL WETLANDS PLANNING,
PROTECTION AND RESTORATION ACT
PUBLIC LAW 101-646
BY THE
NATURAL RESOURCES CONSERVATION SERVICE
OF THE
UNITED STATES DEPARTMENT OF AGRICULTURE
WITH THE ASSISTANCE OF THE
COASTAL PROTECTION AND RESTORATION AUTHORITY
OF LOUISIANA
2020



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PRELIMINARY
FOR
REVIEW ONLY

REVISIONS			
NO.	DATE	APPROVED	TITLE
M1	XX/XX/09	INITIALS	XXX

DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLON		09/19
CHECKED	B. SAMSON		11/19
APPROVED	J. JURGENSEN		11/19

VICINITY MAP
PO-133 LaBRANCHE CENTRAL MARSH CREATION
MARSH CREATION
ST. CHARLES PARISH, LOUISIANA

United States
Department of
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USDA
Natural Resources
Conservation Service

FILE NAME	LA-431
DRAWING NAME	LA-431-01
SHEET	01 of 21



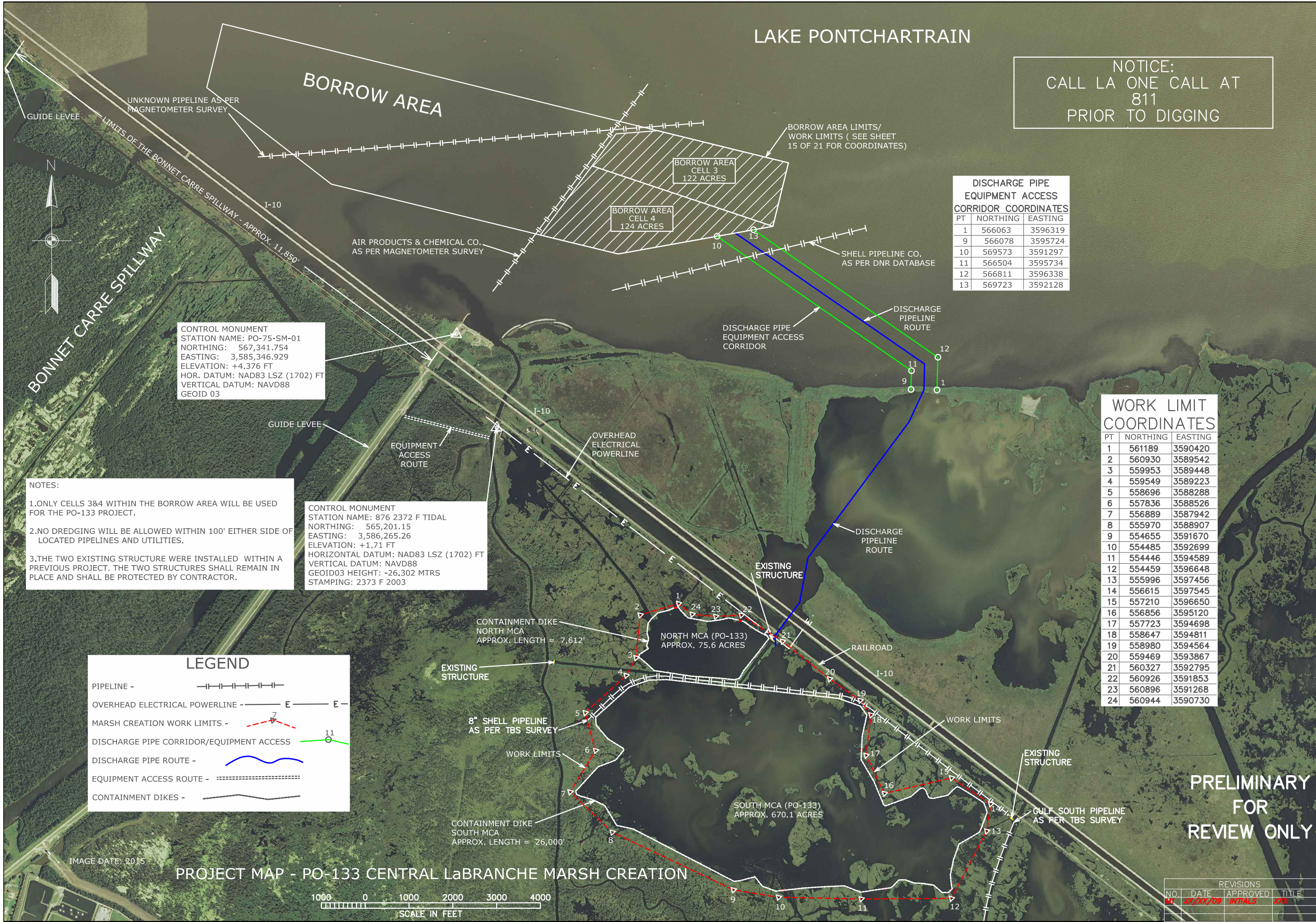
DESIGNED	N. MCCOY	DATE	08/19
DRAWN	A. GREMILLION		09/19
CHECKED	B. SAMSON		11/19
APPROVED	J. JURGENSEN		11/19

PROPERTY OWNERSHIP MAP
PO-133 LaBRANCHE CENTRAL MARSH CREATION
MARSH CREATION AREA & BORROW AREA
ST. CHARLES PARISH, LOUISIANA

United States
Department of
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Natural Resources
Conservation Service

FILE NAME	LA-431
DRAWING NAME	LA-431-02
SHEET 02 of 21	



NOTICE:
CALL LA ONE CALL AT
811
PRIOR TO DIGGING

DISCHARGE PIPE EQUIPMENT ACCESS CORRIDOR COORDINATES		
PT	NORTHING	EASTING
1	566063	3596319
9	566078	3595724
10	569573	3591297
11	566504	3595734
12	566811	3596338
13	569723	3592128

WORK LIMIT COORDINATES		
PT	NORTHING	EASTING
1	561189	3590420
2	560930	3589542
3	559953	3589448
4	559549	3589223
5	558696	3588288
6	557836	3588526
7	556889	3587942
8	555970	3588907
9	554655	3591670
10	554485	3592699
11	554446	3594589
12	554459	3596648
13	555996	3597456
14	556615	3597545
15	557210	3596650
16	556856	3595120
17	557723	3594698
18	558647	3594811
19	558980	3594564
20	559469	3593867
21	560327	3592795
22	560926	3591853
23	560896	3591268
24	560944	3590730

DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLON	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

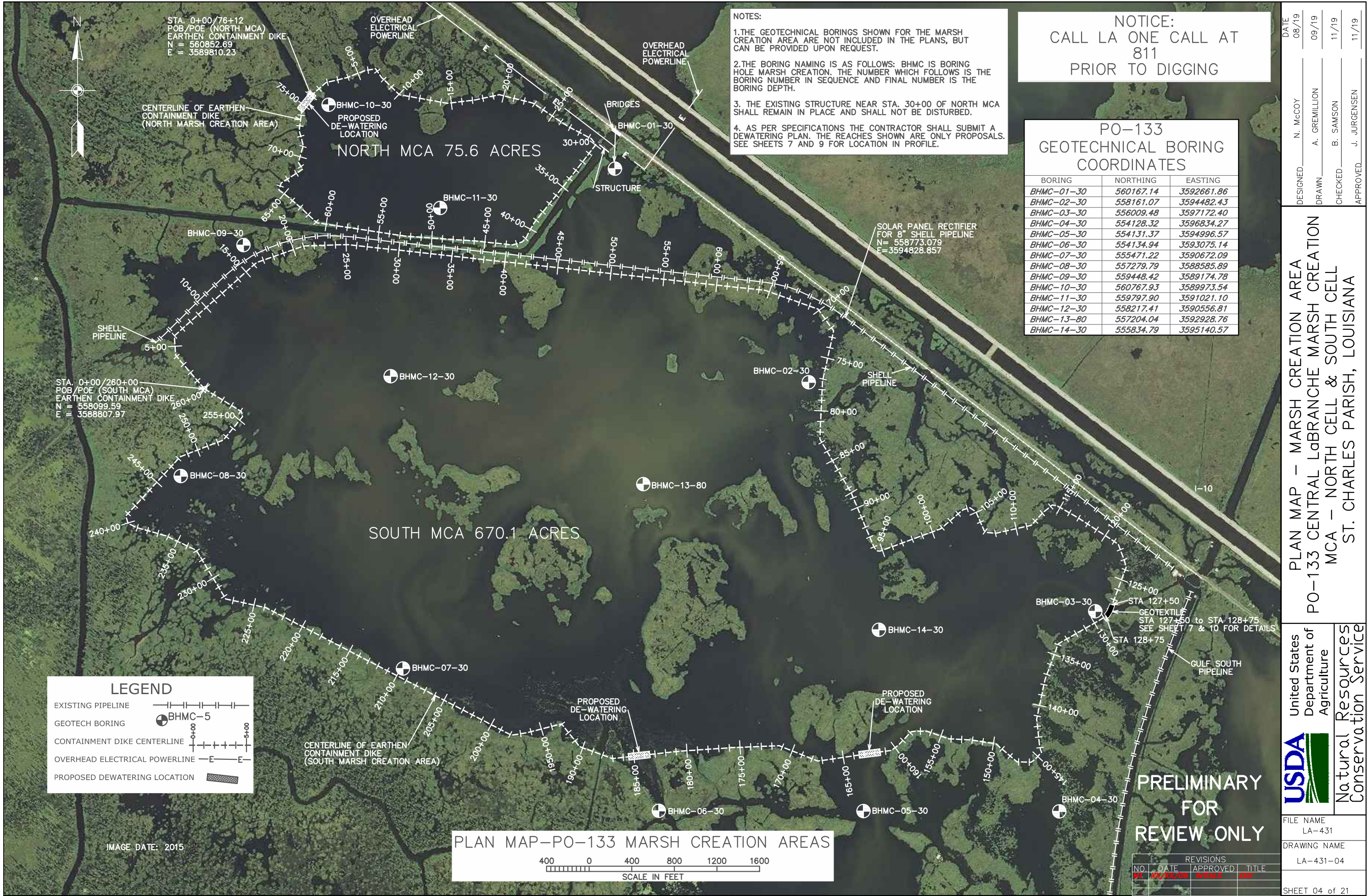
PROJECT MAP
PO-133 LaBRANCHE CENTRAL MARSH CREATION
MARSH CREATION AREA & BORROW AREA
ST. CHARLES PARISH, LOUISIANA



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FOR
REVIEW ONLY

FILE NAME	LA-431
DRAWING NAME	LA-431-03
SHEET	03 of 21

REVISIONS			
NO.	DATE	APPROVED	TITLE
01	XX/XX/09	INITIALS	XXX



- NOTES:
1. THE GEOTECHNICAL BORINGS SHOWN FOR THE MARSH CREATION AREA ARE NOT INCLUDED IN THE PLANS, BUT CAN BE PROVIDED UPON REQUEST.
 2. THE BORING NAMING IS AS FOLLOWS: BHMC IS BORING HOLE MARSH CREATION. THE NUMBER WHICH FOLLOWS IS THE BORING NUMBER IN SEQUENCE AND FINAL NUMBER IS THE BORING DEPTH.
 3. THE EXISTING STRUCTURE NEAR STA. 30+00 OF NORTH MCA SHALL REMAIN IN PLACE AND SHALL NOT BE DISTURBED.
 4. AS PER SPECIFICATIONS THE CONTRACTOR SHALL SUBMIT A DEWATERING PLAN. THE REACHES SHOWN ARE ONLY PROPOSALS. SEE SHEETS 7 AND 9 FOR LOCATION IN PROFILE.

NOTICE:
CALL LA ONE CALL AT
811
PRIOR TO DIGGING

PO-133 GEOTECHNICAL BORING COORDINATES		
BORING	NORTHING	EASTING
BHMC-01-30	560167.14	3592661.86
BHMC-02-30	558161.07	3594482.43
BHMC-03-30	556009.48	3597172.40
BHMC-04-30	554128.32	3596834.27
BHMC-05-30	554131.37	3594996.57
BHMC-06-30	554134.94	3593075.14
BHMC-07-30	555471.22	3590672.09
BHMC-08-30	557279.79	3588585.89
BHMC-09-30	559448.42	3589174.78
BHMC-10-30	560767.93	3589973.54
BHMC-11-30	559797.90	3591021.10
BHMC-12-30	558217.41	3590556.81
BHMC-13-80	557204.04	3592928.76
BHMC-14-30	555834.79	3595140.57

DATE	08/19
DESIGNED	N. McCOY
DRAWN	A. GREMILLION
CHECKED	B. SAMSON
APPROVED	J. JURGENSEN

PLAN MAP - MARSH CREATION AREA
PO-133 CENTRAL LABRANCHE MARSH CREATION
MCA - NORTH CELL & SOUTH CELL
ST. CHARLES PARISH, LOUISIANA



FILE NAME	LA-431
DRAWING NAME	LA-431-04
SHEET	04 of 21

REVISIONS			
NO.	DATE	APPROVED	TITLE
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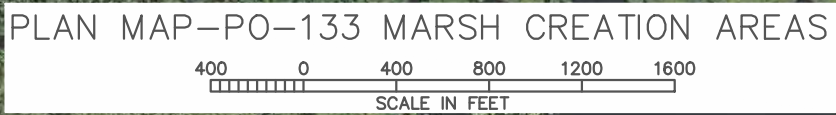


IMAGE DATE: 2015

PO-133 NORTH MCA CONTAINMENT DIKE COORDINATES		
STATION	NORTHING	EASTING
0+00	560852.69	3589810.23
1+86	560976.97	3589949.27
3+89	561023.24	3590146.30
5+71	561088.88	3590316.41
6+72	561107.18	3590415.46
7+73	561023.24	3590472.52
10+04	560862.90	3590638.32
14+64	560781.95	3591091.01
17+23	560813.15	3591348.32
19+58	560862.65	3591577.65
22+86	560783.03	3591895.75
26+78	560564.58	3592221.96
29+26	560449.79	3592440.96
29+96	560392.76	3592482.95
33+52	560110.82	3592265.46
39+36	559654.88	3591901.25
40+92	559517.77	3591827.65
41+45	559478.72	3591791.82
42+39	559451.60	3591701.74
45+93	559488.49	3591349.00
52+42	559532.86	3590701.42
60+90	559659.56	3589862.98
62+99	559802.68	3589711.18
65+02	559933.96	3589556.15
65+61	559967.32	3589507.69
66+30	560032.96	3589528.15
67+26	560083.54	3589609.98
68+69	560161.37	3589729.55
69+45	560227.02	3589690.79
71+10	560386.28	3589736.01
72+57	560527.71	3589698.26
74+68	560737.55	3589725.18
76+12	560852.69	3589810.23

PO-133 SOUTH MCA CONTAINMENT DIKE COORDINATES		
STATION	NORTHING	EASTING
0+00	558099.59	3588807.97
4+16	558415.47	3588537.05
5+98	558597.50	3588526.39
16+31	559285.08	3589296.94
21+01	559441.25	3589740.38
25+10	559454.93	3590148.59
64+61	559023.88	3594076.33
69+85	558848.42	3594569.51
72+36	558644.63	3594716.76
77+26	558166.18	3594611.76
82+65	557627.46	3594587.43
88+50	557121.79	3594881.87
94+00	556614.42	3595094.55
94+47	556577.53	3595122.75
94+75	556573.88	3595150.95
100+84	556784.28	3595721.68
103+57	556961.49	3595929.42
104+25	556982.66	3595994.74
104+97	556941.92	3596053.97
106+89	556766.06	3596129.87
107+15	556750.87	3596150.88
107+99	556741.01	3596234.31
111+47	556817.42	3596574.21
112+99	556930.50	3596675.70
114+20	557007.56	3596769.26
114+58	557004.46	3596806.91
117+06	556881.26	3597022.64
121+21	556653.35	3597369.31
121+48	556637.31	3597390.41
122+92	556502.35	3597440.27
123+72	556426.06	3597464.39
124+73	556331.08	3597429.74
128+14	556011.23	3597309.55
128+60	555972.92	3597285.15
129+24	555936.99	3597232.57
133+94	555702.80	3596824.94
137+55	555363.39	3596700.43
141+33	554993.96	3596622.90
143+71	554756.79	3596649.25
144+23	554706.29	3596659.63
144+47	554684.15	3596669.32
145+37	554617.73	3596609.10
145+83	554591.45	3596570.34
147+16	554594.91	3596437.44
149+74	554763.02	3596242.24
152+02	554799.71	3596017.01
154+26	554811.47	3595793.43
156+37	554882.22	3595595.13
157+39	554882.91	3595492.69
157+86	554878.07	3595445.62
159+62	554751.46	3595324.49
160+43	554703.04	3595259.42
167+42	554601.86	3594567.99
171+33	554746.46	3594203.90
175+64	554728.46	3593773.71
180+51	554696.36	3593287.73
187+03	554625.52	3592639.29
190+30	554737.21	3592332.18
193+04	554951.47	3592162.10
196+42	554868.25	3591834.33
197+87	554845.23	3591690.83
223+85	556043.92	3589385.59
227+71	556125.37	3589008.22
233+05	556582.23	3588731.84
236+24	556719.39	3588444.26
239+06	556795.54	3588173.19
239+96	556834.49	3588091.69
240+70	556905.33	3588070.43
248+24	557461.35	3588580.68
252+58	557617.95	3588985.14
255+43	557837.52	3589165.85
255+92	557885.34	3589155.22
260+00	558099.59	3588807.97

REVISIONS	
NO.	DATE
01	XX/XX/09
INITIALS	
	XXX

FILE NAME
LA-431

DRAWING NAME
LA-431-05



United States
Department of
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Natural Resources
Conservation Service

CONTAINMENT DIKE – CENTERLINE COORDINATES
PO-133 CENTRAL LaBRANCHE MARSH CREATION
MCA – NORTH CELL & SOUTH CELL
ST. CHARLES PARISH, LOUISIANA

DESIGNED
N. McCOY

DRAWN
A. GREMILLION

CHECKED
B. SAMSON

APPROVED
J. JURGENSEN

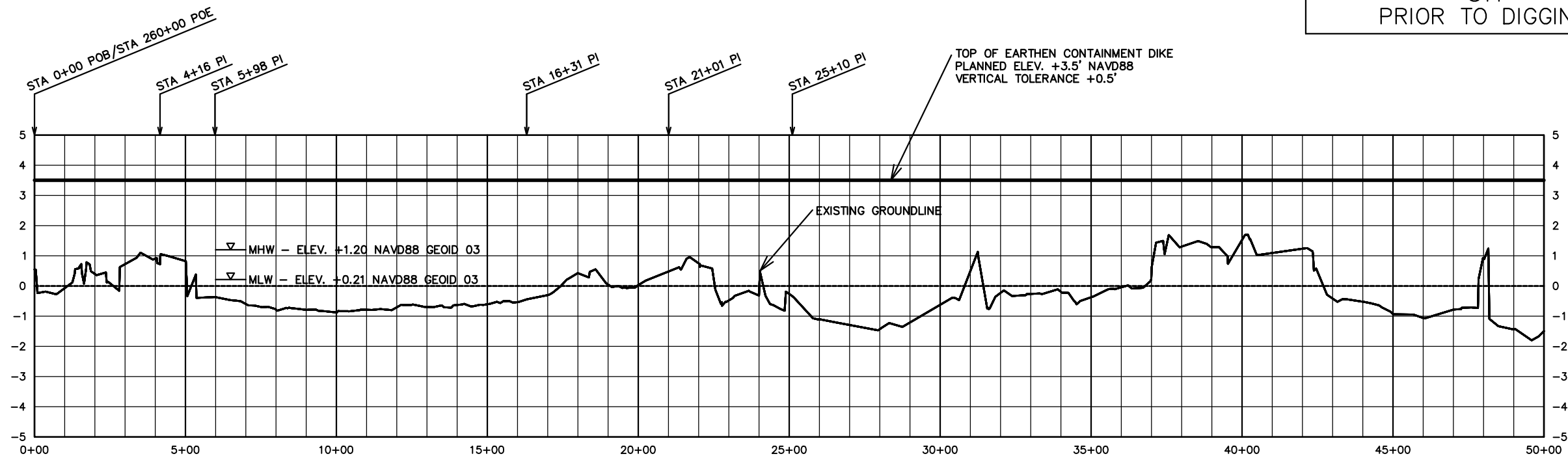
DATE
08/19

09/19

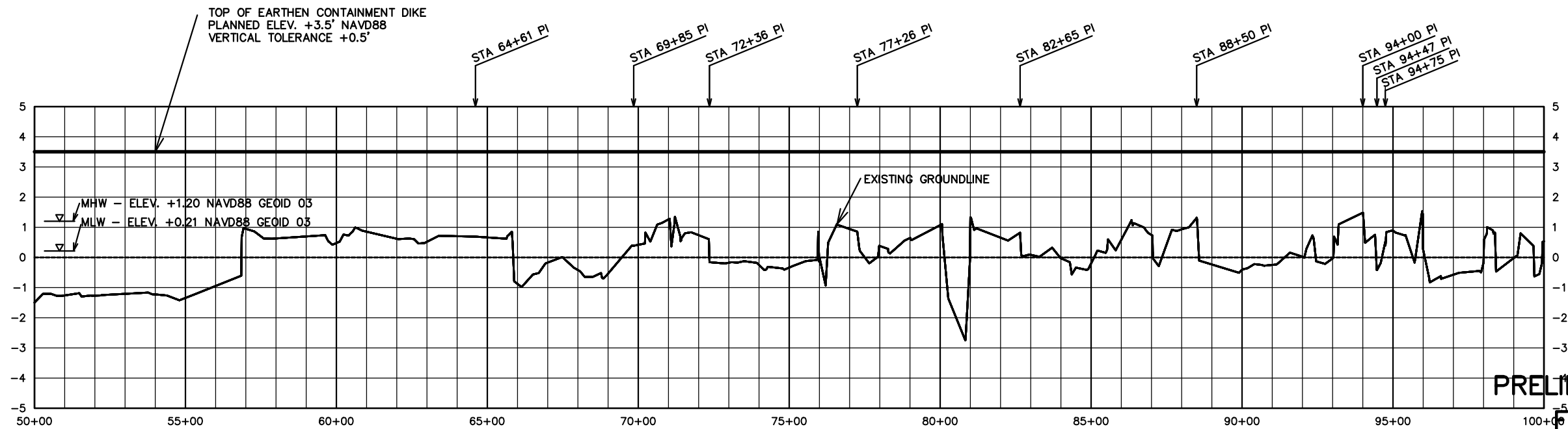
11/19

11/19

NOTICE:
CALL LA ONE CALL AT
811
PRIOR TO DIGGING



CENTERLINE PROFILE-EARTHEN CONTAINMENT DIKE – STA 0+00 to STA 50+00
SOUTH MARSH CREATION AREA



CENTERLINE PROFILE-EARTHEN CONTAINMENT DIKE – STA 50+00 to STA 100+00
SOUTH MARSH CREATION AREA

PRELIMINARY
FOR
REVIEW ONLY

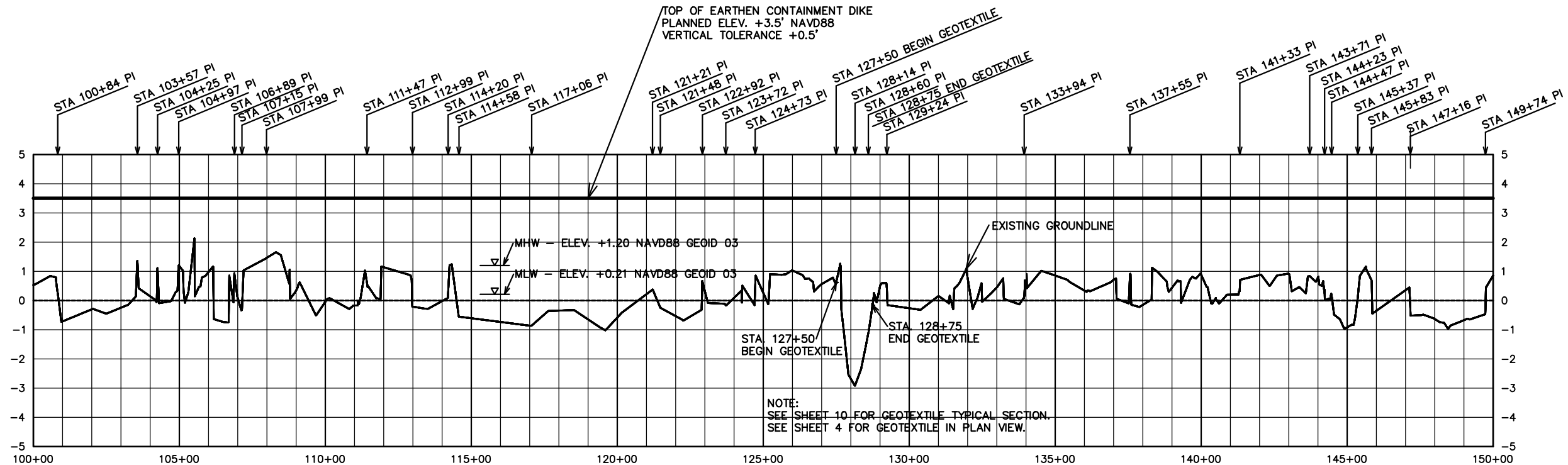
REVISIONS			
NO.	DATE	APPROVED	TITLE
M1	XX/XX/09	INITIALS	XXX

DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

CENTERLINE PROFILE-EARTHEN CONTAINMENT DIKE
STA 0+00 to STA 100+00
PO-133 LdBRANCHE CENTRAL MARSH CREATION
ST CHARLES PARISH, LOUISIANA

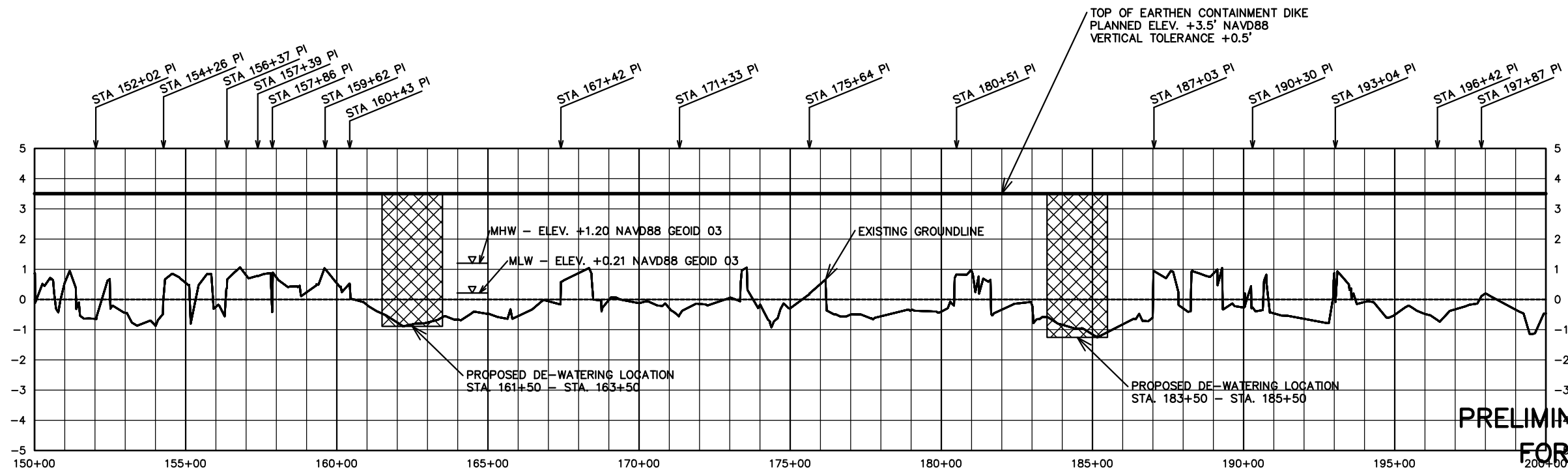


FILE NAME	LA-431
DRAWING NAME	LA-431-06
SHEET 06 of 21	



CENTERLINE PROFILE-EARTHEN CONTAINMENT DIKE – STA 100+00 to STA 150+00
SOUTH MARSH CREATION AREA

NOTICE:
CALL LA ONE CALL AT
811
PRIOR TO DIGGING



CENTERLINE PROFILE-EARTHEN CONTAINMENT DIKE – STA 150+00 to STA 200+00
SOUTH MARSH CREATION AREA

PRELIMINARY
FOR
REVIEW ONLY

REVISIONS			
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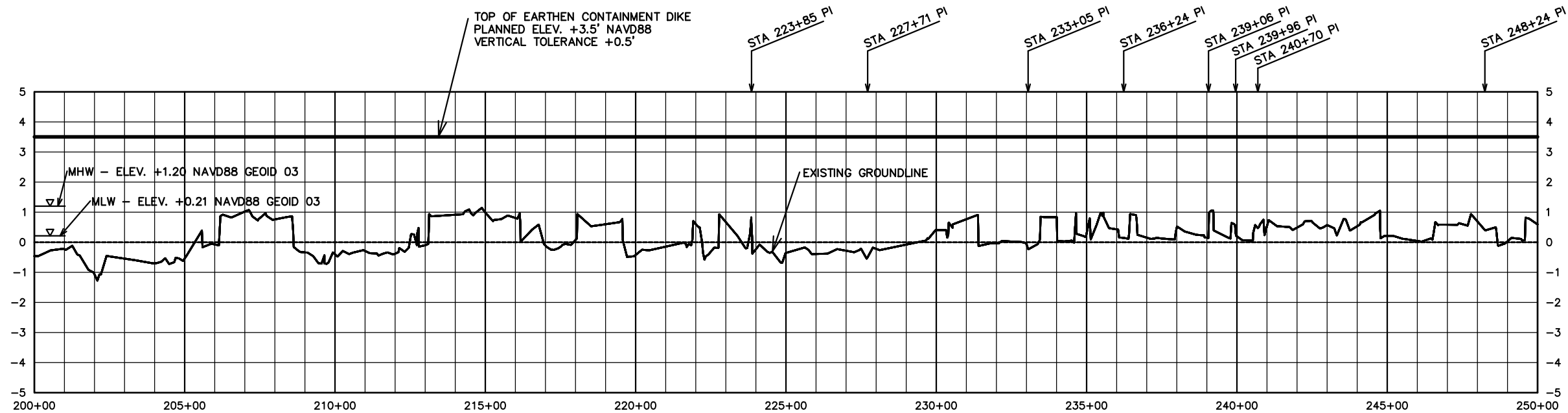
DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

CENTERLINE PROFILE-EARTHEN CONTAINMENT DIKE
STA 100+00 to STA 200+00
PO-133 LdBRANCHE CENTRAL MARSH CREATION
ST CHARLES PARISH, LOUISIANA

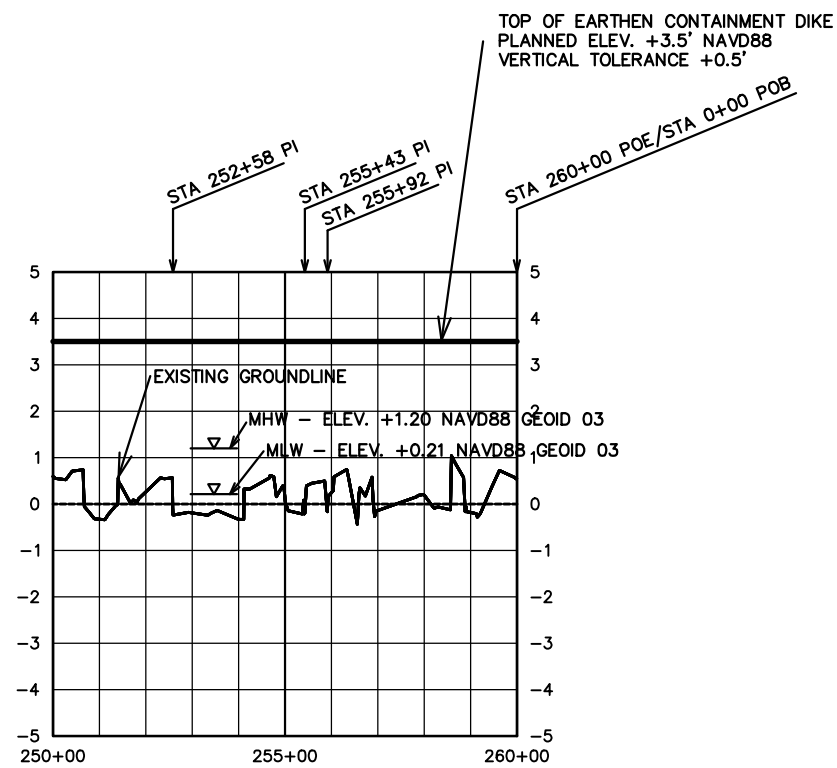


FILE NAME	LA-431
DRAWING NAME	LA-431-07
SHEET	07 of 21

NOTICE:
CALL LA ONE CALL AT
811
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CENTERLINE PROFILE-EARTHEN CONTAINMENT DIKE – STA 200+00 to STA 250+00
SOUTH MARSH CREATION AREA



CENTERLINE PROFILE-EARTHEN CONTAINMENT DIKE – STA 250+00 to STA 260+00
SOUTH MARSH CREATION AREA

PRELIMINARY
FOR
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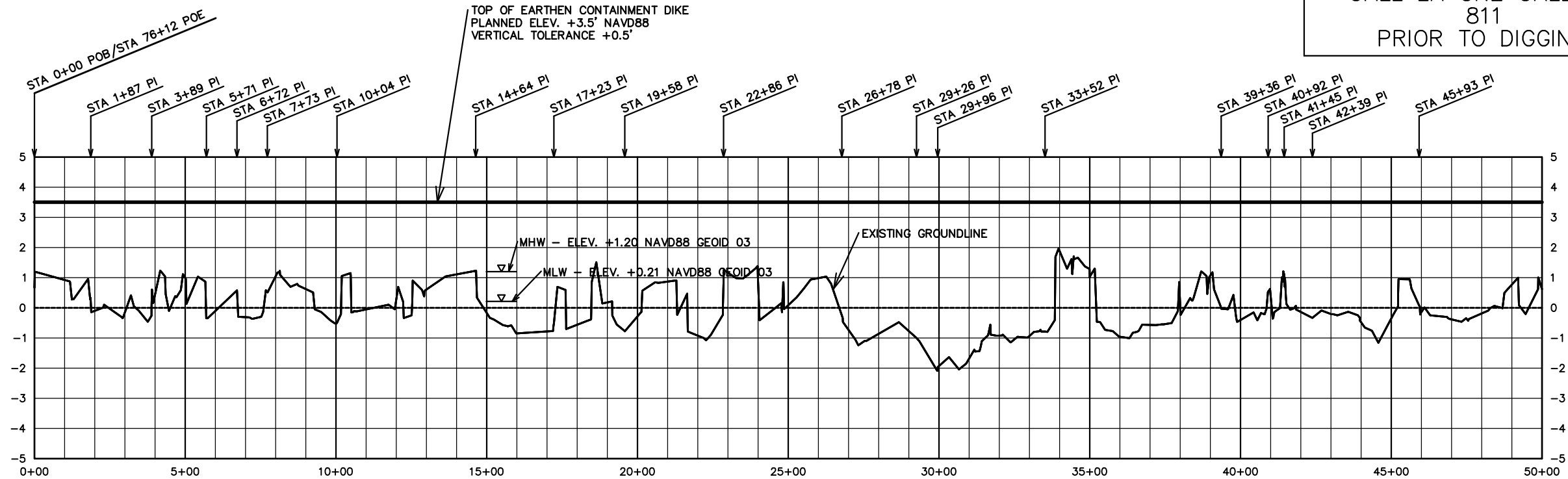
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DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

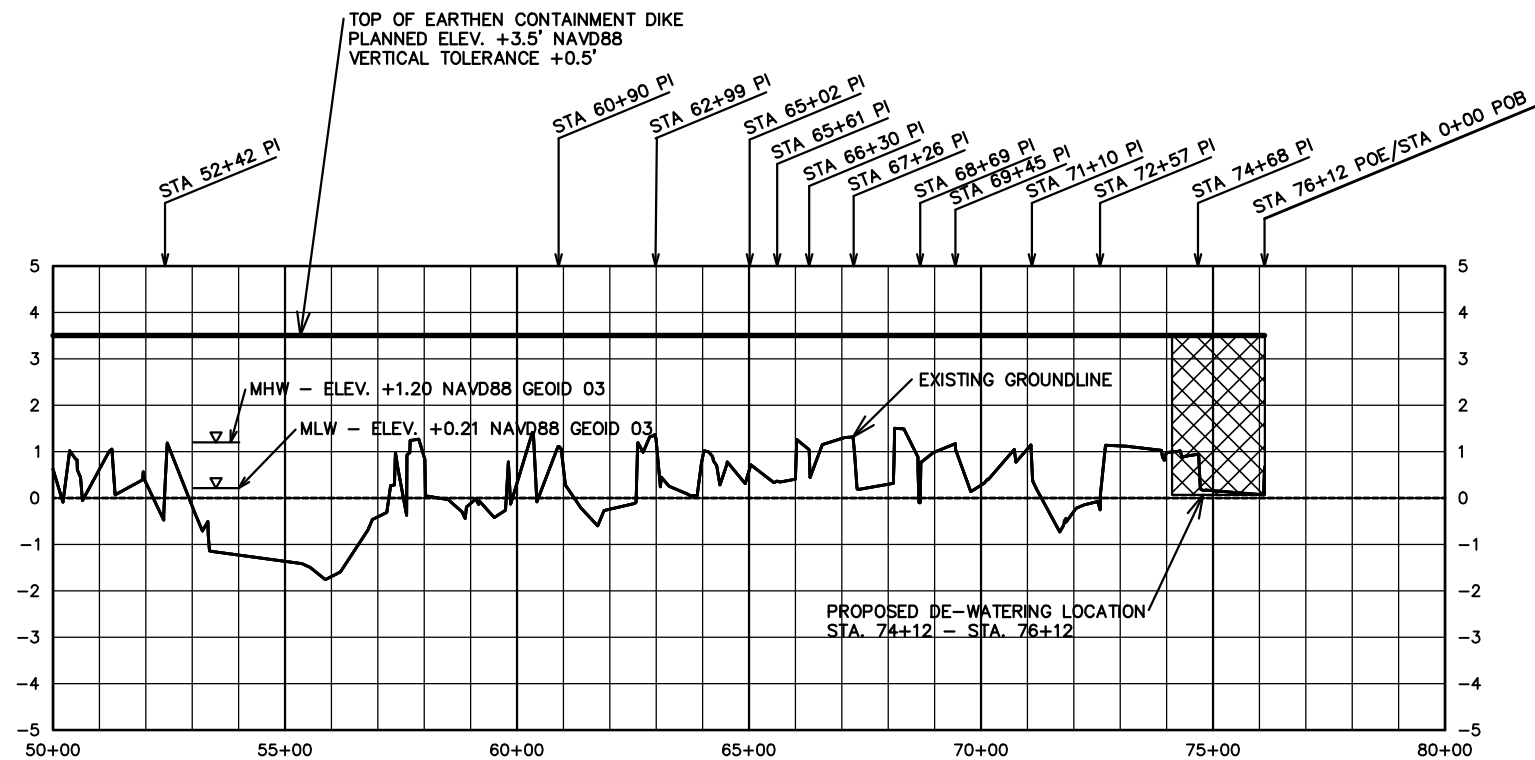
CENTERLINE PROFILE-EARTHEN CONTAINMENT DIKE
STA 200+00 to STA 260+00
PO-133 LdBRANCHE CENTRAL MARSH CREATION
ST CHARLES PARISH, LOUISIANA



FILE NAME	LA-431
DRAWING NAME	LA-431-08
SHEET	08 of 21



CENTERLINE PROFILE—EARTHEN CONTAINMENT DIKE — STA 0+00 to STA 50+00
NORTH MARSH CREATION AREA



CENTERLINE PROFILE—EARTHEN CONTAINMENT DIKE — STA 50+00 to STA 76+12
NORTH MARSH CREATION AREA

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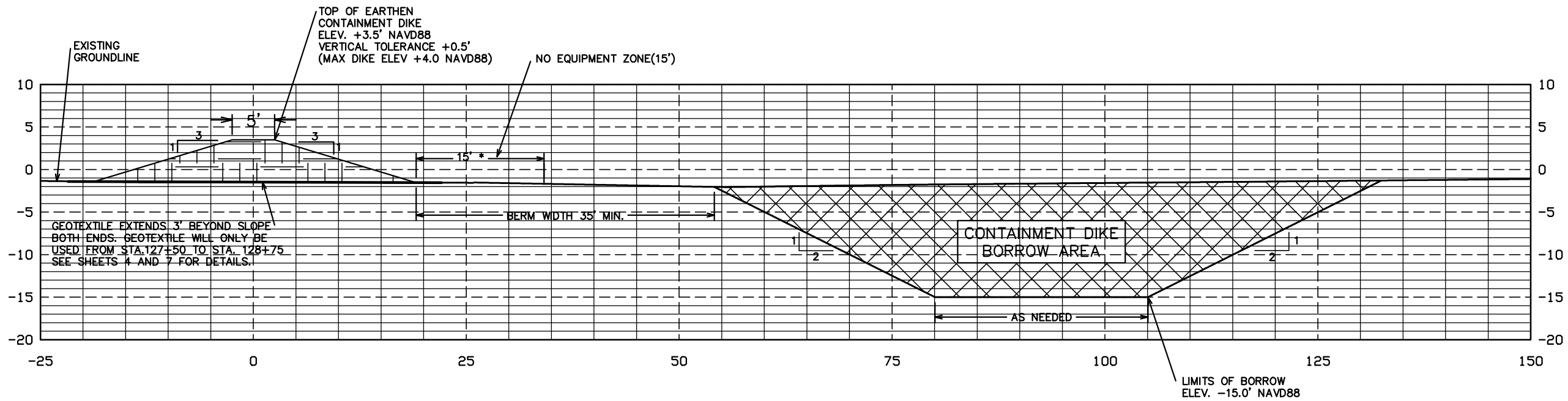
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DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

CENTERLINE PROFILE—EARTHEN CONTAINMENT DIKE
STA 0+00 to STA 76+12
PO-133 LdBRANCHE CENTRAL MARSH CREATION
ST CHARLES PARISH, LOUISIANA



FILE NAME	LA-431
DRAWING NAME	LA-431-09
SHEET	09 of 21



TYPICAL CROSS SECTION—EARTHEN CONTAINMENT DIKE

REVISIONS			
NO.	DATE	APPROVED	TITLE
M1	XX/XX/09	INITIALS	XXX

DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

TYPICAL SECTION
EARTHEN CONTAINMENT DIKE
PO-133 LdBRANCHE CENTRAL MARSH CREATION
ST. CHARLES PARISH, LOUISIANA



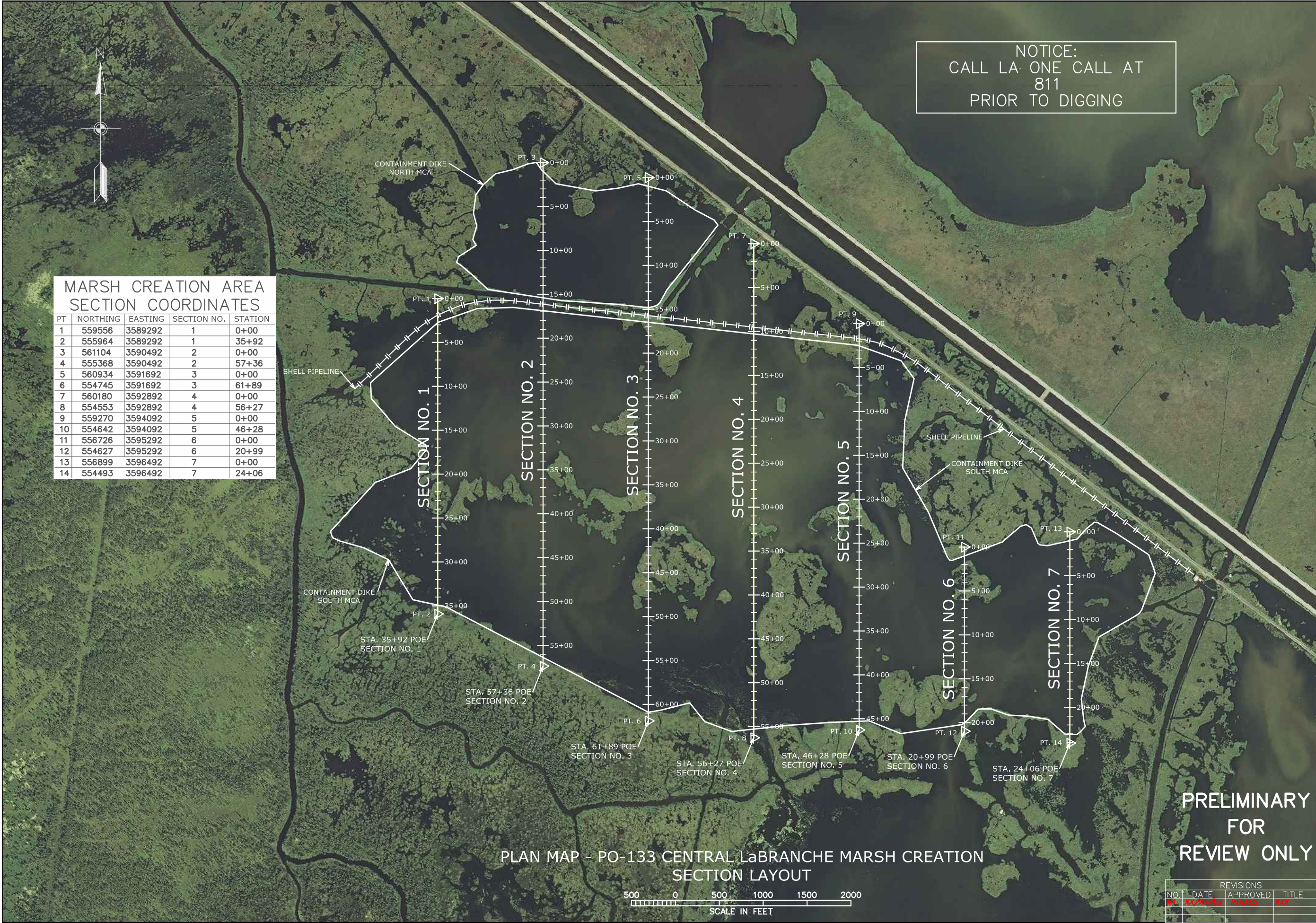
United States
Department of
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Conservation Service

FILE NAME
LA-431

DRAWING NAME
LA-431-10

SHEET 10 of 21



MARSH CREATION AREA SECTION COORDINATES				
PT	NORTHING	EASTING	SECTION NO.	STATION
1	559556	3589292	1	0+00
2	555964	3589292	1	35+92
3	561104	3590492	2	0+00
4	555368	3590492	2	57+36
5	560934	3591692	3	0+00
6	554745	3591692	3	61+89
7	560180	3592892	4	0+00
8	554553	3592892	4	56+27
9	559270	3594092	5	0+00
10	554642	3594092	5	46+28
11	556726	3595292	6	0+00
12	554627	3595292	6	20+99
13	556899	3596492	7	0+00
14	554493	3596492	7	24+06

NOTICE:
CALL LA ONE CALL AT
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PLAN MAP - PO-133 CENTRAL LaBRANCHE MARSH CREATION
SECTION LAYOUT



REVISIONS			
NO.	DATE	APPROVED	TITLE
1	XX/XX/XX	INITIALS	XXX

United States
Department of
Agriculture

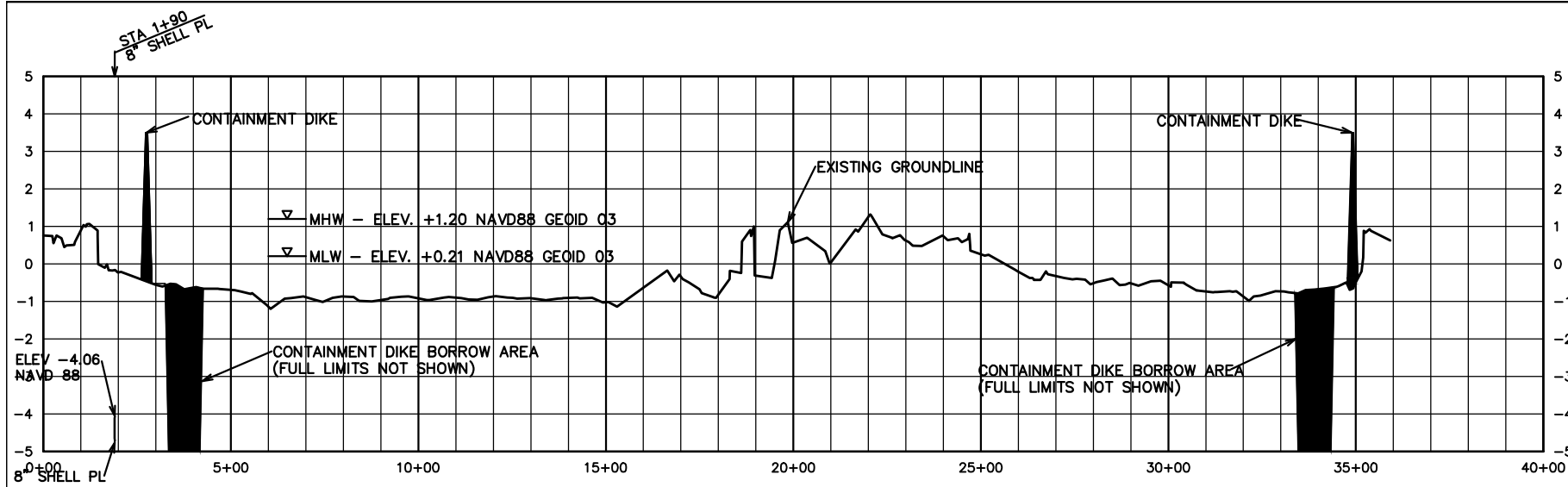


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PLAN MAP - MARSH CREATION AREA
PO-133 CENTRAL LaBRANCHE MARSH CREATION
MCA SECTIONS 1 THRU 7
ST. CHARLES PARISH, LOUISIANA

DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION		09/19
CHECKED	B. SAMSON		11/19
APPROVED	J. JURGENSEN		11/19

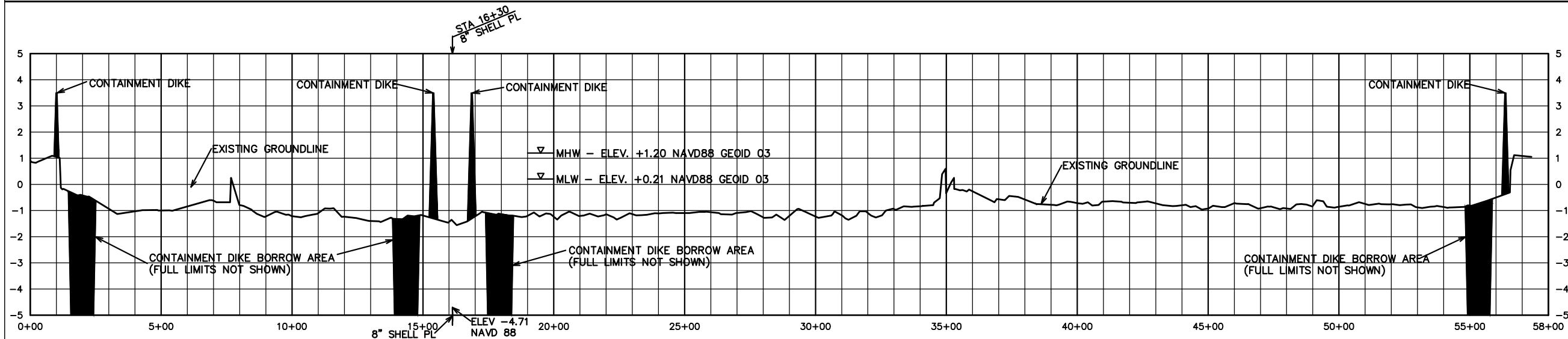
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SHEET 11 of 21	



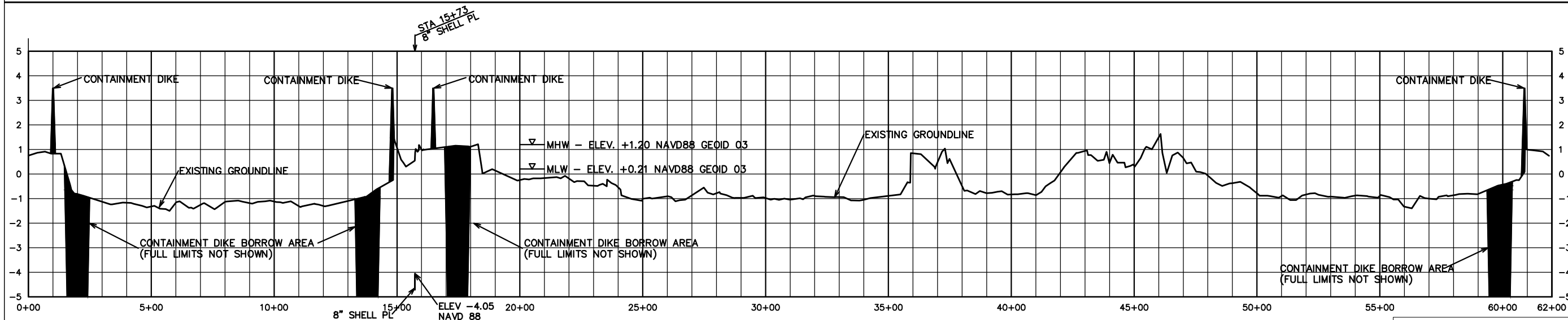
NOTICE:
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811
PRIOR TO DIGGING

PRELIMINARY
FOR
REVIEW ONLY

SECTION NO. 1 – MARSH CREATION AREA – NORTH TO SOUTH



SECTION NO. 2 – MARSH CREATION AREA – NORTH TO SOUTH



SECTION NO. 3 – MARSH CREATION AREA – NORTH TO SOUTH

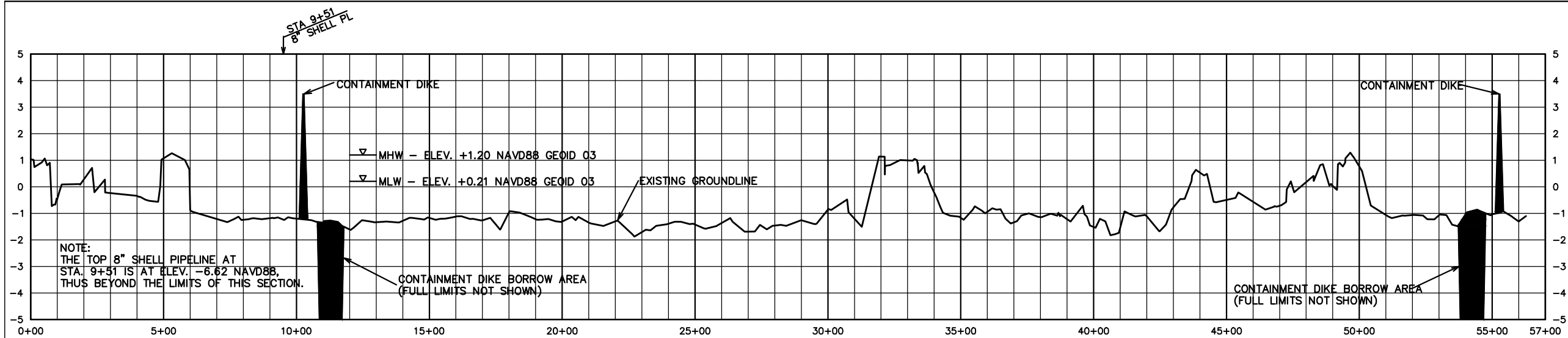
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CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

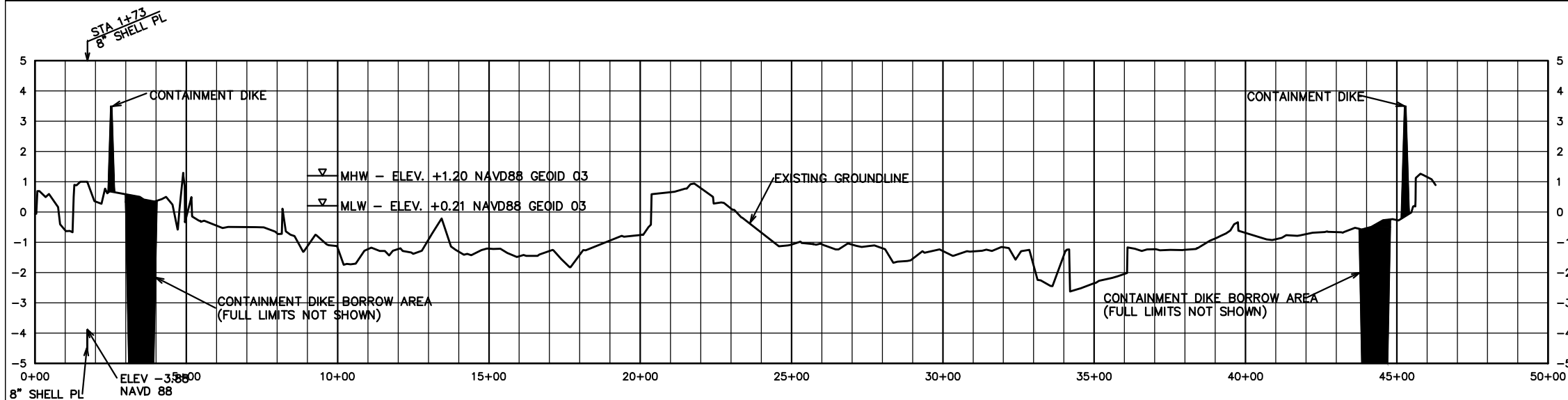
MARSH CREATION SECTIONS
SECTIONS NO.1, NO.2 & NO.3
PO-133 LaBRANCHE CENTRAL MARSH CREATION
ST CHARLES PARISH, LOUISIANA



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DRAWING NAME	LA-431-12
SHEET 12 of 21	



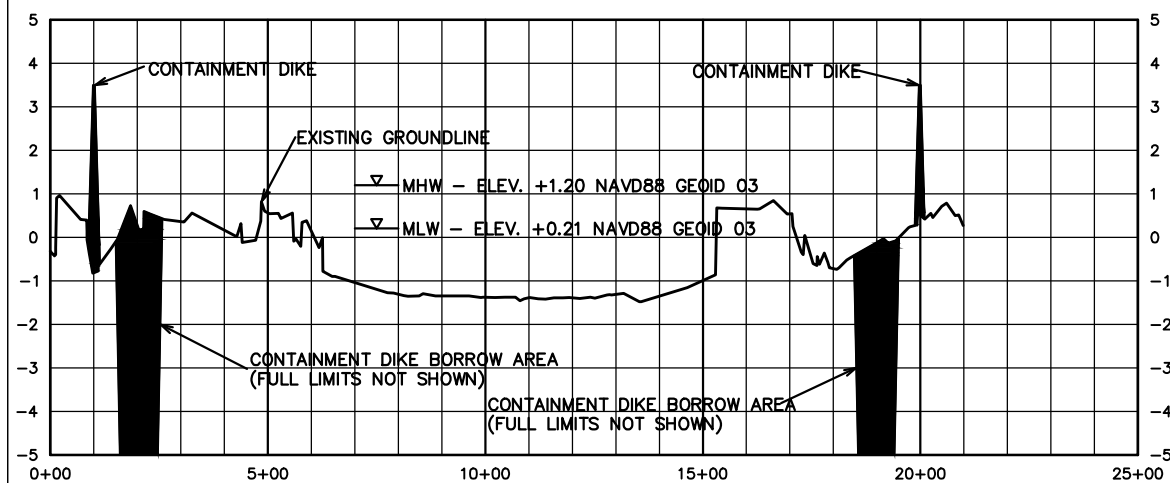
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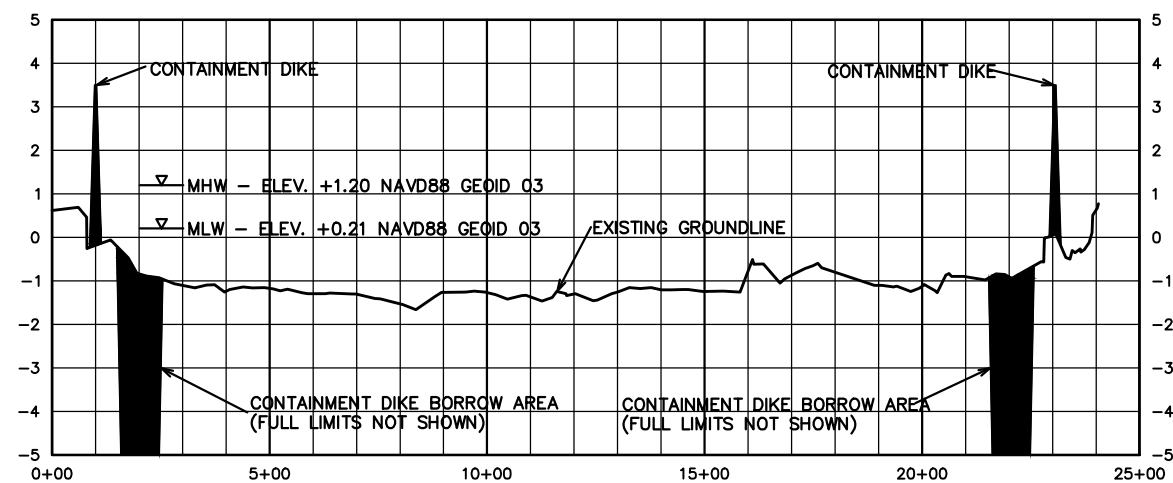
SECTION NO. 5 – MARSH CREATION AREA – NORTH TO SOUTH

NOTICE:
CALL LA ONE CALL AT
811
PRIOR TO DIGGING

PRELIMINARY
FOR
REVIEW ONLY



SECTION NO. 6 – MARSH CREATION AREA – NORTH TO SOUTH



SECTION NO. 7 – MARSH CREATION AREA – NORTH TO SOUTH

REVISIONS			
NO.	DATE	APPROVED	TITLE
M1	XX/XX/09	INITIALS	XXX

DESIGNED: N. McCOY DRAWN: A. GREMILLION CHECKED: B. SAMSON APPROVED: J. JURGENSEN	DATE: 08/19
	09/19
	11/19
	11/19

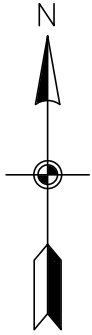
MARSH CREATION SECTIONS
 SECTIONS NO.4, NO.5, NO.6 & NO.7
 PO-133 LaBRANCHE CENTRAL MARSH CREATION
 ST CHARLES PARISH, LOUISIANA

United States
 Department of
 Agriculture
USDA
 Natural Resources
 Conservation Service

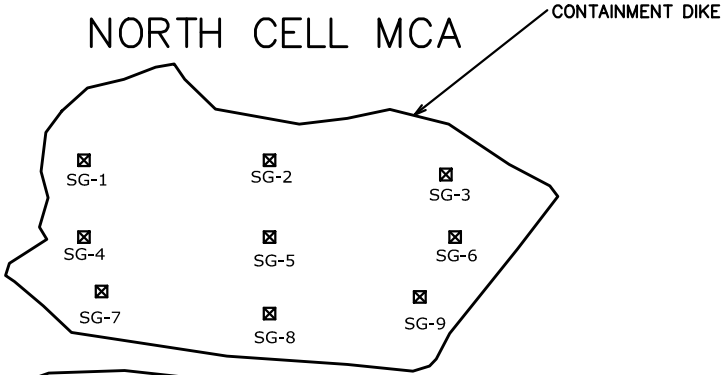
FILE NAME: LA-431
 DRAWING NAME: LA-431-13
 SHEET 13 of 21

STAFF GAUGE
COORDINATES

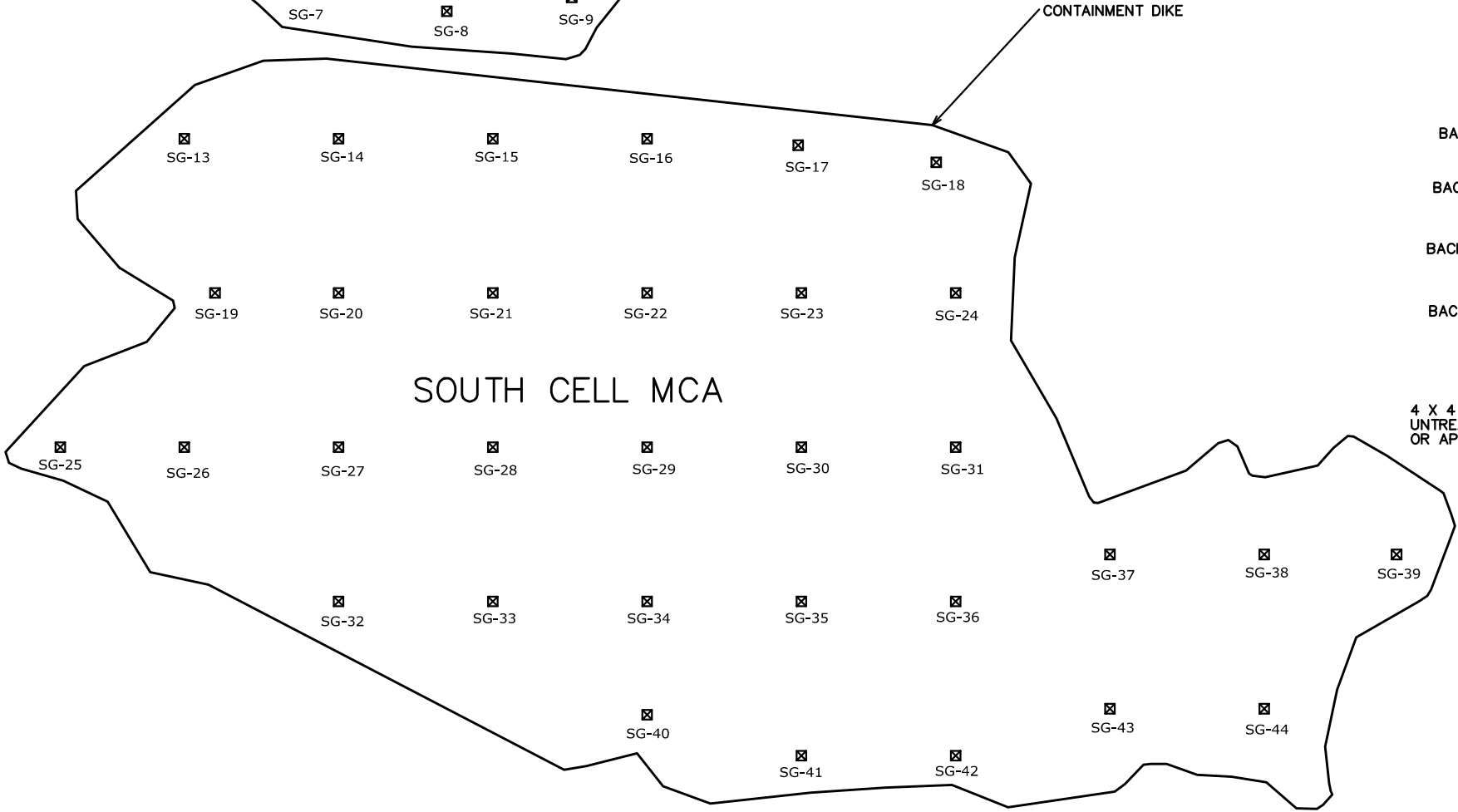
GAUGE	NORTHING	EASTING
1	560587	3589930
2	560587	3590930
3	560511	3591880
4	560174	3589930
5	560174	3590930
6	560174	3591930
7	559880	3590025
8	559762	3590930
9	559852	3591740
13	558936	3589229
14	558936	3590229
15	558936	3591229
16	558936	3592229
17	558894	3593208
18	558782	3594103
19	557936	3589428
20	557936	3590229
21	557936	3591229
22	557936	3592229
23	557936	3593229
24	557936	3594229
25	556936	3588425
26	556936	3589229
27	556936	3590229
28	556936	3591229
29	556936	3592229
30	556936	3593229
31	556936	3594229
32	555936	3590229
33	555936	3591229
34	555936	3592229
35	555936	3593229
36	555936	3594229
37	556240	3595229
38	556240	3596229
39	556240	3597086
40	555202	3592229
41	554936	3593229
42	554936	3594229
43	555240	3595229
44	555240	3596229



NORTH CELL MCA



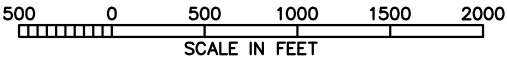
SOUTH CELL MCA



LEGEND

CONTAINMENT DIKE — 
STAFF GAUGES —  SG-11

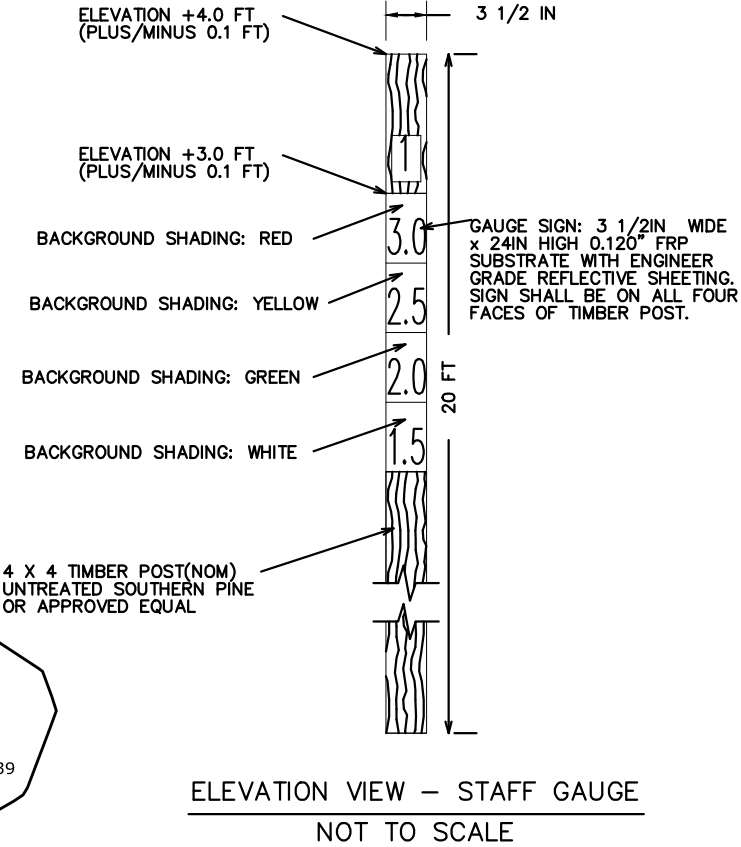
PO-133 MARSH CREATION AREAS
PROPOSED STAFF GAUGE LOCATIONS



NOTES:

- STAFF GAUGES SHALL BE CONSTRUCTED AND INSTALLED IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS. CONTRACTOR MAY SUBMIT AN ALTERNATE PLAN FOR STAFF GAUGE LOCATIONS FOR NRCS APPROVAL IN ACCORDANCE WITH THE PROJECT SPECIFICATIONS.
- COORDINATES SHOWN ARE LOUISIANA SOUTH ZONE, NORTH AMERICAN DATUM OF 1983. VERTICAL DATUM FOR ELEVATIONS SHOWN IS NAVD88 (GEIOD 03), IN U.S. SURVEY FEET.

NOTICE:
CALL LA ONE CALL AT
811
PRIOR TO DIGGING



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REVISIONS			
NO.	DATE	APPROVED	TITLE
M1	XX/XX/09	INITIALS	XXX

DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

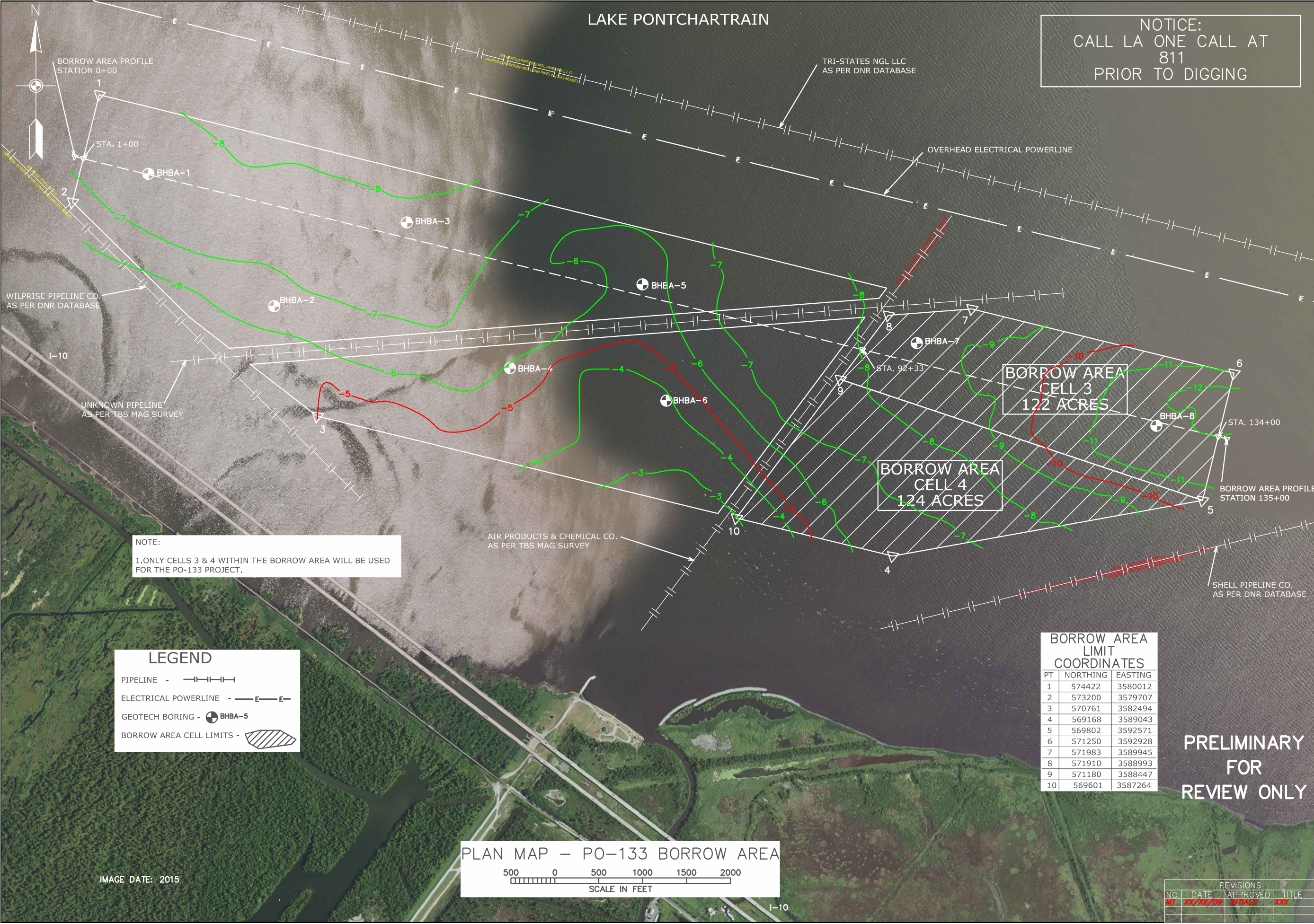
PLAN MAP
PO-133 CENTRAL LaBRANCHE MARSH CREATION
STAFF GAUGE PLAN MAP AND DETAILS
ST. CHARLES PARISH, LOUISIANA



FILE NAME	LA-431
DRAWING NAME	LA-431-14
SHEET 14 of 21	

LAKE PONTCHARTRAIN

NOTICE:
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PRIOR TO DIGGING



NOTE:
1. ONLY CELLS 3 & 4 WITHIN THE BORROW AREA WILL BE USED FOR THE PO-133 PROJECT.

LEGEND

PIPELINE -

ELECTRICAL POWERLINE -

GEOTECH BORING - BHBA-5

BORROW AREA CELL LIMITS -

BORROW AREA LIMIT COORDINATES		
PT	NORTHING	EASTING
1	574422	3580012
2	573200	3579707
3	570761	3582494
4	569168	3589043
5	569802	3592571
6	571250	3592928
7	571983	3589945
8	571910	3588993
9	571180	3588447
10	569601	3587264

PRELIMINARY
FOR
REVIEW ONLY

PLAN MAP - PO-133 BORROW AREA

500 0 500 1000 1500 2000

SCALE IN FEET

IMAGE DATE: 2015

DATE	08/19
DESIGNED	N. McCOY
DRAWN	A. GREMILLION
CHECKED	B. SAMSON
APPROVED	J. JURGENSEN

PLAN MAP - MARSH CREATION AREA
PO-133 L&BRANCH CENTRAL MARSH CREATION
PLAN MAP - BORROW AREA
ST. CHARLES PARISH, LOUISIANA

United States
Department of
Agriculture

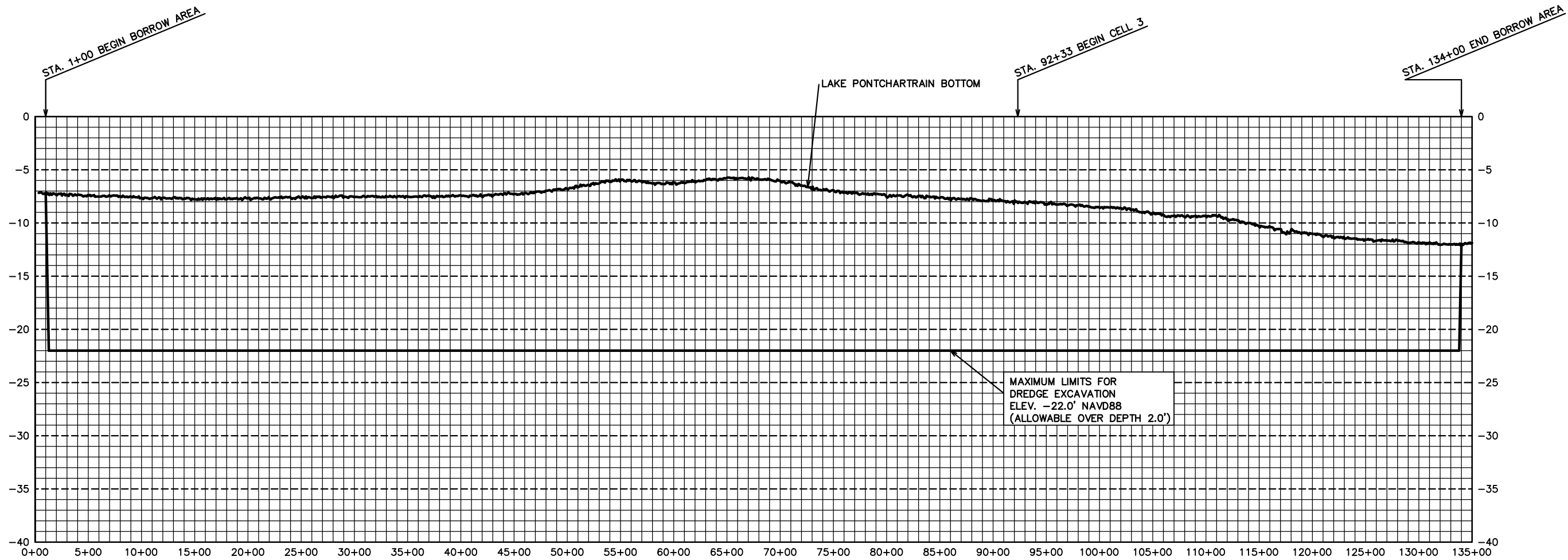
USDA

Natural Resources

FILE NAME	LA-431
DRAWING NAME	LA-431-15
SHEET 15 of 21	

REVISIONS			
NO.	DATE	APPROVED	TITLE
01	XX/XX/08	INITIALS	XXX

NOTICE:
CALL LA ONE CALL AT
811
PRIOR TO DIGGING



PRELIMINARY
FOR
REVIEW ONLY

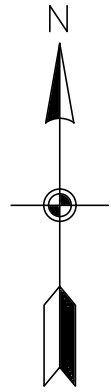
REVISIONS			
NO.	DATE	APPROVED	TITLE
M1	XX/XX/09	INITIALS	XXX

DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

BORROW AREA PROFILE
PO-133 LaBRANCHE CENTRAL MARSH CREATION
MCA - NORTH AND SOUTH CELLS
ST. CHARLES PARISH, LOUISIANA



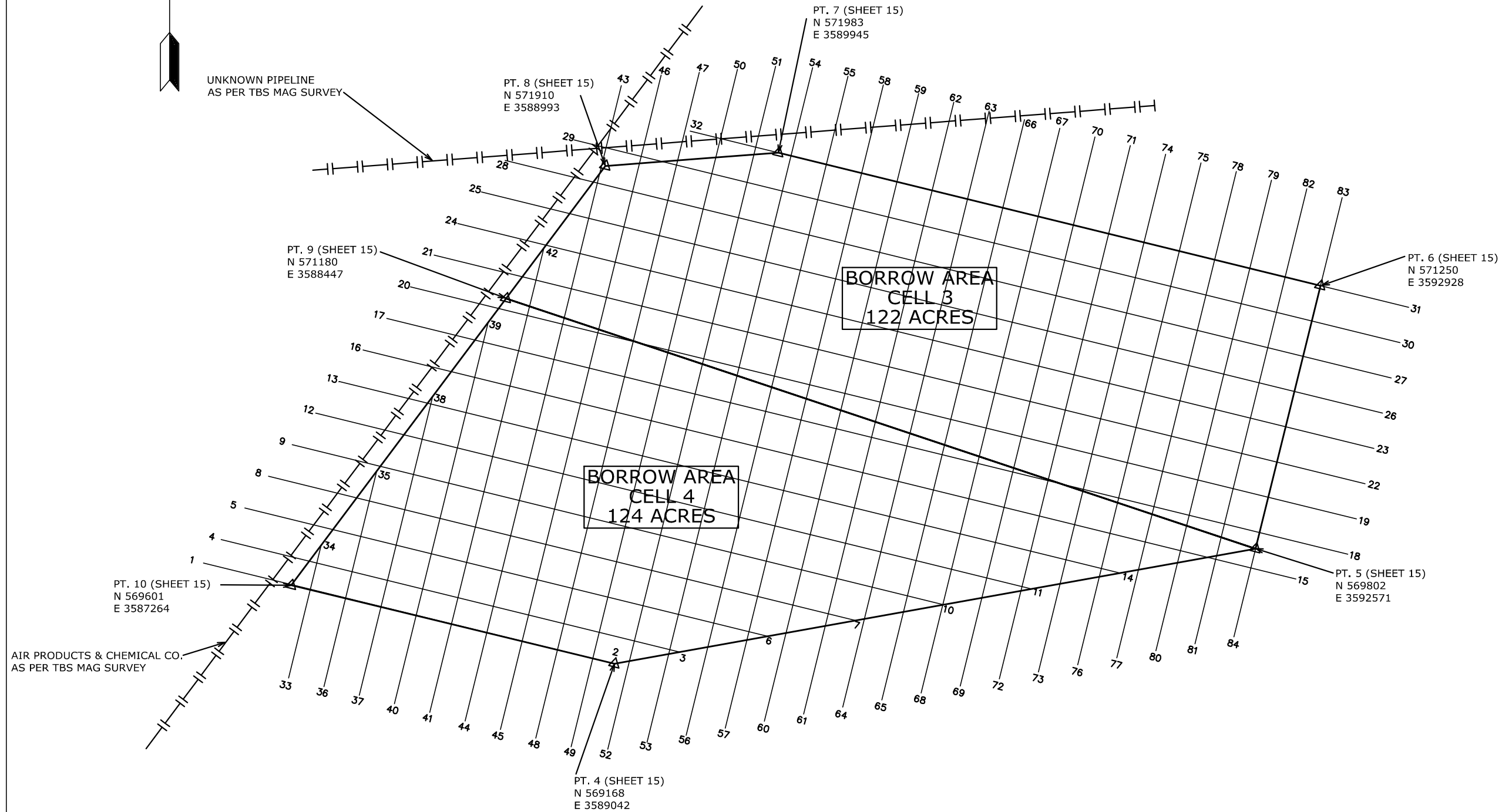
FILE NAME	LA-431
DRAWING NAME	LA-431-16
SHEET 16 of 21	



UNKNOWN PIPELINE
AS PER TBS MAG SURVEY

NOTES:

1. THE PURPOSE OF THIS SHEET IS TO SHOW THE SURVEY LINES THAT WILL BE SURVEYED PRIOR TO CONSTRUCTION AND AFTER CONSTRUCTION.
2. SEE SHEET 18 FOR THE COORDINATES OF THE SURVEY LINES.



PO-133 BORROW AREA (CELLS 3 & 4) - SURVEY LINE LAYOUT



REVISIONS			
NO.	DATE	APPROVED	TITLE
01	XX/XX/09	INITIALS	XXX

DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

PLAN MAP – BORROW AREA SURVEY LINES
PO-133 LaBRANCHE CENTRAL MARSH CREATION
BORROW AREA – CELLS 3 & 4
ST. CHARLES PARISH, LOUISIANA



FILE NAME	LA-431
DRAWING NAME	LA-431-17
SHEET 17 of 21	

BORROW AREA (CELLS 3&4)
SURVEY LINE COORDINATES

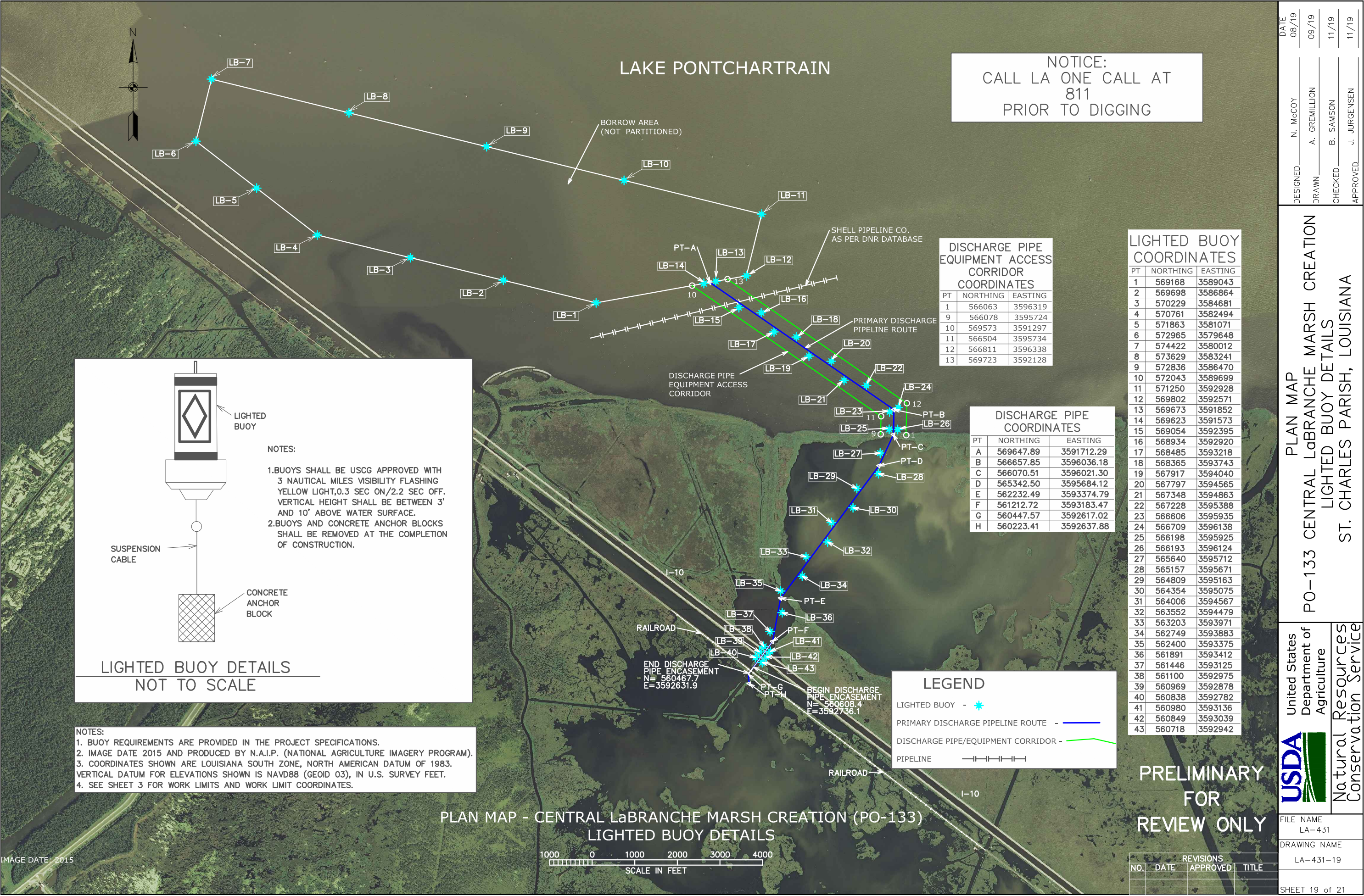
PT.	NORTHING	EASTING
1	569723.62	3586781.30
2	569168.26	3589042.84
3	569232.83	3589402.21
4	569852.70	3586877.96
5	570026.66	3587008.23
6	569319.84	3589886.50
7	569406.86	3590370.80
8	570200.61	3587138.49
9	570374.56	3587268.76
10	569493.87	3590855.09
11	569580.89	3591339.39
12	570548.51	3587399.03
13	570722.47	3587529.29
14	569667.90	3591823.68
15	569635.68	3592793.55
16	570896.42	3587659.56
17	571070.37	3587789.83
18	569771.62	3593078.62
19	569965.79	3593126.52
20	571244.32	3587920.09
21	571418.28	3588050.36
22	570159.97	3593174.43
23	570354.15	3593222.33
24	571592.23	3588180.63
25	571766.18	3588310.89
26	570548.33	3593270.23
27	570742.51	3593318.13
28	571940.14	3588441.16
29	572052.86	3588820.78
30	570936.69	3593366.03
31	571130.87	3593413.94
32	572101.94	3589459.53
33	569089.90	3587249.33
34	569820.57	3587428.76
35	570229.75	3587735.19
36	569042.63	3587443.67
37	568995.37	3587638.00
38	570638.94	3588041.61
39	571048.13	3588348.04
40	568948.10	3587832.34
41	568900.83	3588026.67
42	571457.32	3588654.46

PT.	NORTHING	EASTING
43	572352.08	3589080.13
44	568853.57	3588221.01
45	568806.30	3588415.34
46	572409.55	3589300.19
47	572425.68	3589510.09
48	568759.04	3588609.68
49	568711.77	3588804.01
50	572441.81	3589719.99
51	572457.94	3589929.89
52	568697.58	3589006.47
53	568736.30	3589221.92
54	572451.13	3590134.16
55	572403.43	3590328.39
56	568775.02	3589437.37
57	568813.74	3589652.82
58	572355.74	3590522.62
59	572308.04	3590716.85
60	568852.46	3589868.27
61	568891.18	3590083.72
62	572260.34	3590911.08
63	572212.65	3591105.31
64	568929.90	3590299.18
65	568968.62	3590514.63
66	572164.95	3591299.54
67	572117.25	3591493.77
68	569007.35	3590730.08
69	569046.07	3590945.53
70	572069.56	3591688.00
71	572021.86	3591882.23
72	569084.79	3591160.98
73	569123.51	3591376.43
74	571974.16	3592076.46
75	571926.47	3592270.69
76	569162.23	3591591.88
77	569200.95	3591807.33
78	571878.77	3592464.92
79	571831.08	3592659.15
80	569239.67	3592022.78
81	569278.39	3592238.23
82	571783.38	3592853.37
83	571735.68	3593047.60
84	569316.73	3592451.55

NOTE:

1. SEE SHEET 17 OF 21 FOR THE PLAN VIEW OF THE BORROW AREA SURVEY LINES.

NO. 17 DATE XX/XX/09 REVISIONS APPROVED INITIALS TITLE XXX		FILE NAME LA-431 DRAWING NAME		 United States Department of Agriculture Natural Resources Conservation Service	BORROW AREA SURVEY LINE COORDINATES PO-133 LaBRANCHE CENTRAL MARSH CREATION BORROW AREA – CELLS 3 & 4 ST. CHARLES PARISH, LOUISIANA		DESIGNED N. McCOY DRAWN A. GREMILLION CHECKED B. SAMSON APPROVED J. JURGENSEN	DATE 08/19 09/19 11/19 11/19
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NOTICE:
CALL LA ONE CALL AT
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DISCHARGE PIPE
EQUIPMENT ACCESS
CORRIDOR
COORDINATES

PT	NORTHING	EASTING
1	566063	3596319
9	566078	3595724
10	569573	3591297
11	566504	3595734
12	566811	3596338
13	569723	3592128

DISCHARGE PIPE
COORDINATES

PT	NORTHING	EASTING
A	569647.89	3591712.29
B	566657.85	3596036.18
C	566070.51	3596021.30
D	565342.50	3595684.12
E	562232.49	3593374.79
F	561212.72	3593183.47
G	560447.57	3592617.02
H	560223.41	3592637.88

LIGHTED BUOY
COORDINATES

PT	NORTHING	EASTING
1	569168	3589043
2	569698	3586864
3	570229	3584681
4	570761	3582494
5	571863	3581071
6	572965	3579648
7	574422	3580012
8	573629	3583241
9	572836	3586470
10	572043	3589699
11	571250	3592928
12	569802	3592571
13	569673	3591852
14	569623	3591573
15	569054	3592395
16	568934	3592920
17	568485	3593218
18	568365	3593743
19	567917	3594040
20	567797	3594565
21	567348	3594863
22	567228	3595388
23	566606	3595935
24	566709	3596138
25	566198	3595925
26	566193	3596124
27	565640	3595712
28	565157	3595671
29	564809	3595163
30	564354	3595075
31	564006	3594567
32	563552	3594479
33	563203	3593971
34	562749	3593883
35	562400	3593375
36	561891	3593412
37	561446	3593125
38	561100	3592975
39	560969	3592878
40	560838	3592782
41	560980	3593136
42	560849	3593039
43	560718	3592942

LEGEND

- LIGHTED BUOY - *
- PRIMARY DISCHARGE PIPELINE ROUTE - —
- DISCHARGE PIPE/EQUIPMENT CORRIDOR - —
- PIPELINE - —

PRELIMINARY
FOR
REVIEW ONLY

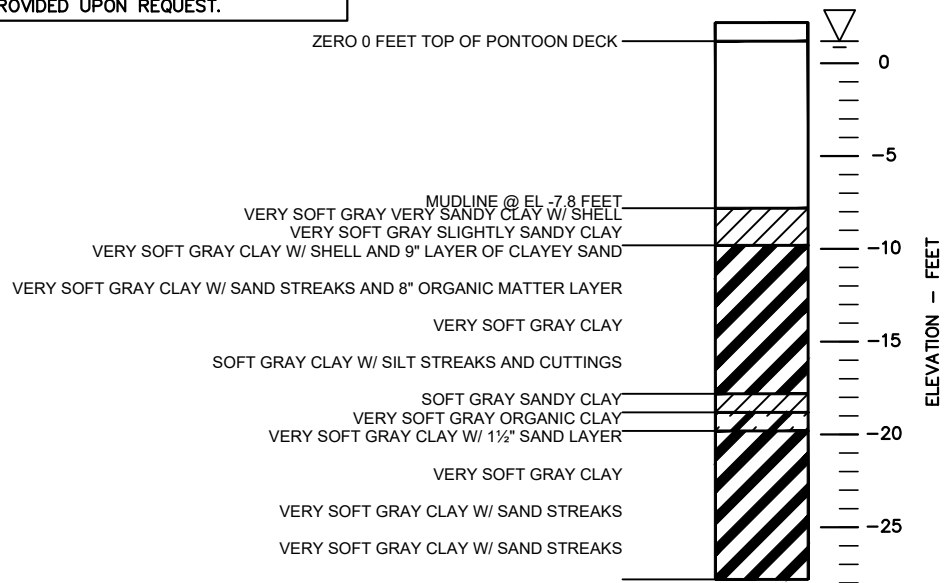
DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

PLAN MAP
PO-133 CENTRAL LaBRANCHE MARSH CREATION
LIGHTED BUOY DETAILS
ST. CHARLES PARISH, LOUISIANA

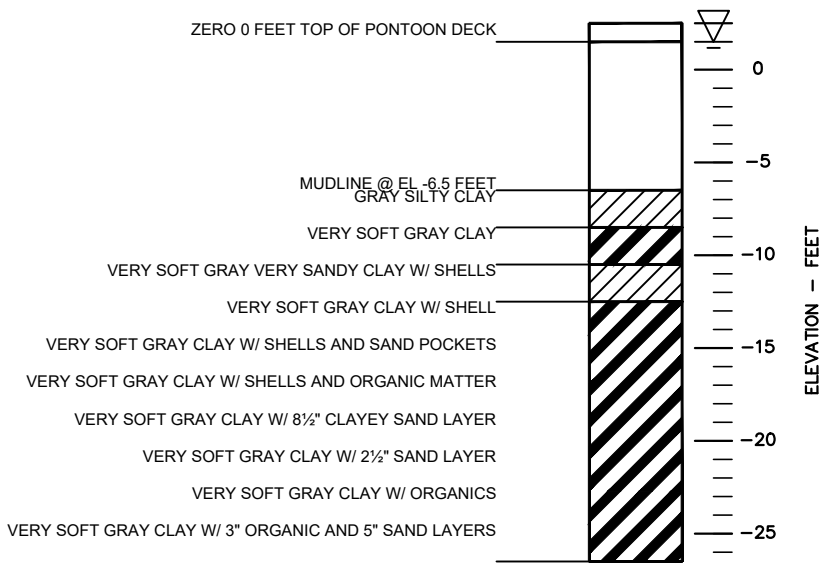


FILE NAME	LA-431
DRAWING NAME	LA-431-19
SHEET 19 of 21	

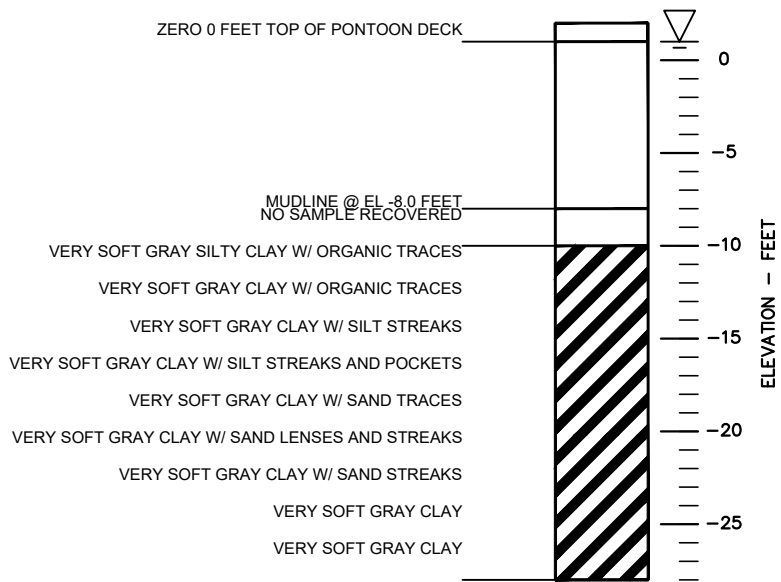
- NOTES:
1. ELEVATIONS SHOWN ARE IN U.S. FEET.
 2. VERTICAL DATUM IS NAVD88 GEOID 03.
 3. GEOTECH BORINGS WITHIN THE MARSH CREATION AREAS ARE NOT SHOWN IN THESE PLANS, BUT CAN BE PROVIDED UPON REQUEST.



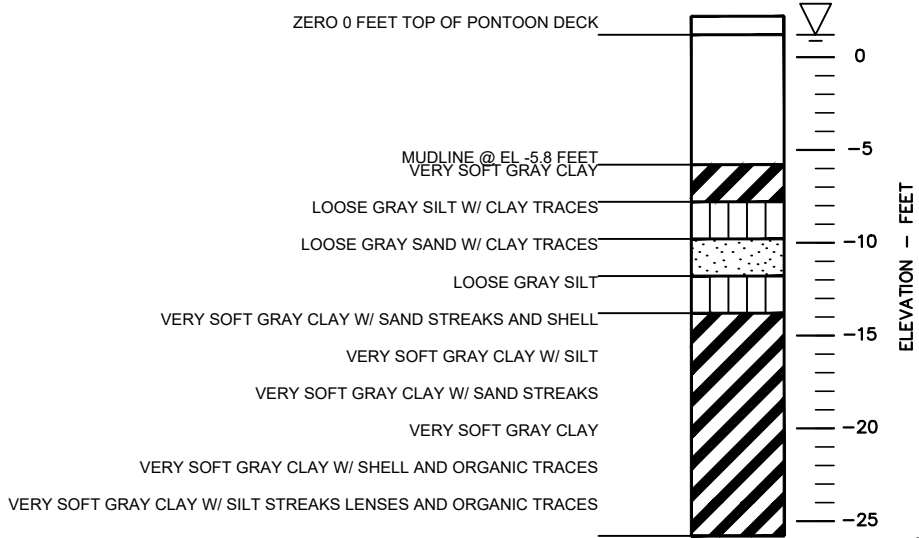
BHBA1-1088300901
PO-133 LABRANCHE CENTRAL MARSH CREATION



BHBA2-1088300901
PO-133 LABRANCHE CENTRAL MARSH CREATION



BHBA3-1088300901
PO-133 LABRANCHE CENTRAL MARSH CREATION



BHBA4-1088300901
PO-133 LABRANCHE CENTRAL MARSH CREATION

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REVISIONS			
NO.	DATE	APPROVED	TITLE
01	XX/XX/09	INITIALS	XXX

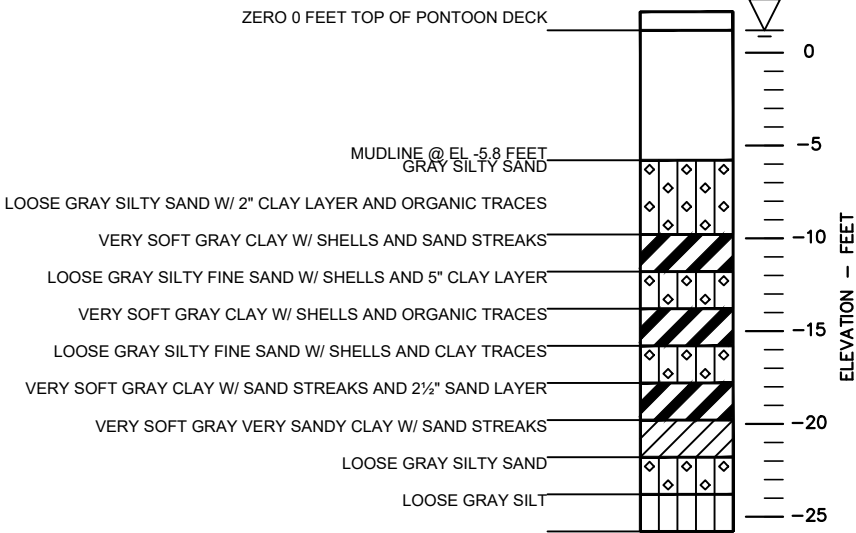
DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

SOIL BORINGS - BORROW AREA
PO-133 LaBRANCHE CENTRAL MARSH CREATION
BORINGS BHBA-1,BHBA-2,BHBA-3 & BHBA-4
ST. CHARLES PARISH, LOUISIANA

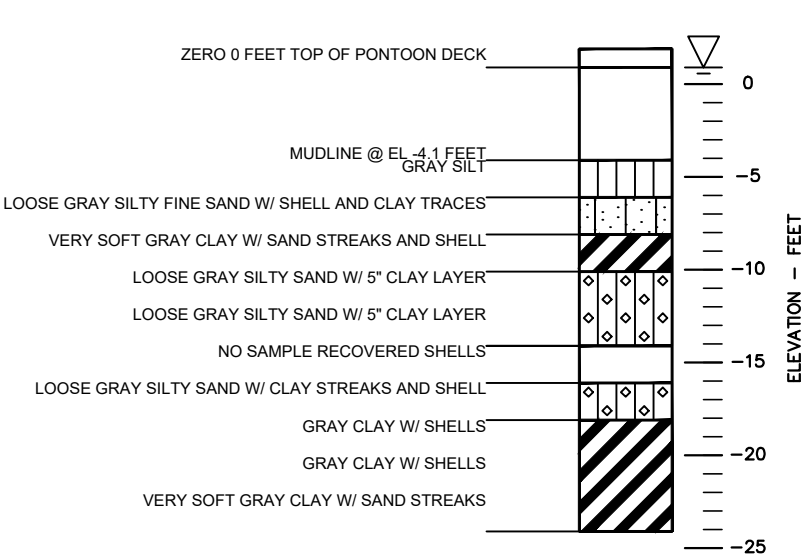


FILE NAME	LA-431
DRAWING NAME	LA-431-20
SHEET	20 of 21

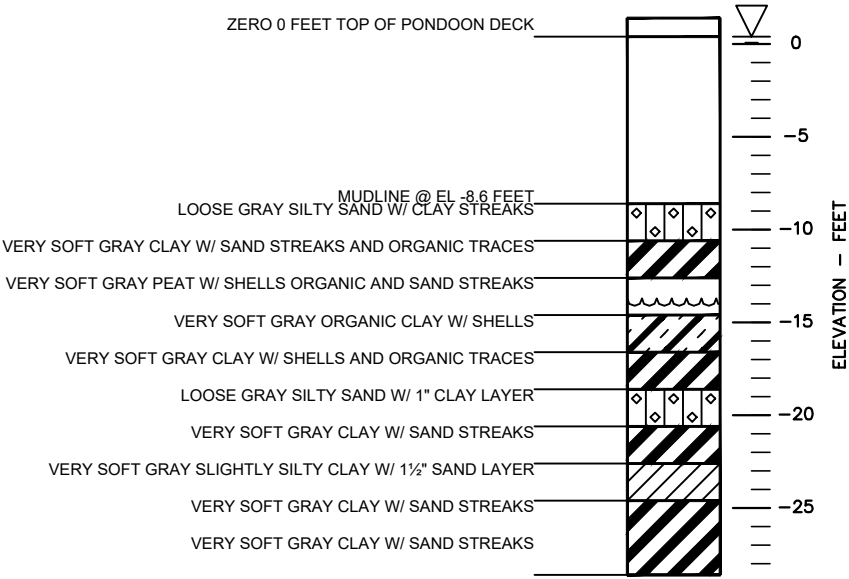
- NOTES:
1. ELEVATIONS SHOWN ARE IN U.S. FEET.
 2. VERTICAL DATUM IS NAVD88 GEOID 03.
 3. GEOTECH BORINGS WITHIN THE MARSH CREATION AREAS ARE NOT SHOWN IN THESE PLANS, BUT CAN BE PROVIDED UPON REQUEST.



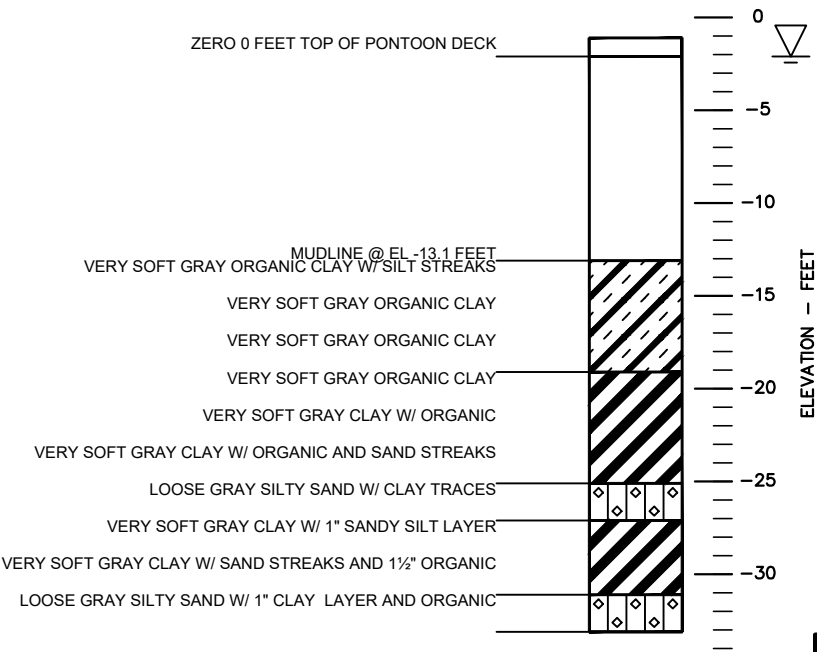
BHBA5-1088300901
PO-133 LABRANCHE CENTRAL MARSH CREATION



BHBA6-1088300901
PO-133 LABRANCHE CENTRAL MARSH CREATION



BHBA7-1088300901
PO-133 LABRANCHE CENTRAL MARSH CREATION



BHBA8-1088300901
PO-133 LABRANCHE CENTRAL MARSH CREATION

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REVISIONS			
NO.	DATE	APPROVED	TITLE
M1	XX/XX/09	INITIALS	XXX

DESIGNED	N. McCOY	DATE	08/19
DRAWN	A. GREMILLION	DATE	09/19
CHECKED	B. SAMSON	DATE	11/19
APPROVED	J. JURGENSEN	DATE	11/19

SOIL BORINGS – BORROW AREA
PO-133 LaBRANCHE CENTRAL MARSH CREATION
BORINGS BHBA-5,BHBA-6,BHBA-7 & BHBA-8
ST. CHARLES PARISH, LOUISIANA



FILE NAME	LA-431
DRAWING NAME	LA-431-21
SHEET 21 of 21	