

**JOHN BEL EDWARDS  
GOVERNOR**



**JACK MONToucET  
SECRETARY**

PO BOX 98000 | BATON ROUGE LA | 70898  
Louisiana Natural & Scenic River System  
**SCENIC RIVER PERMIT #1178**

Issue/Effective Date: March 9, 2022

Scenic River: Bayou LaBranche

Recipient: NRCS  
Attn: Breese Barnes  
3737 Government Street  
Alexandria, LA 71302

Description: Construction of the PO-75 Marsh Creation Project

This permit is issued under the authority of Part II of Chapter 8, Title 56 of the LRS of 1950 as amended and re-enacted regarding the Louisiana Natural & Scenic Rivers System and the administrative procedures pertaining to the management of watercourses designated as Scenic Rivers.

The permit is issued by the Administrator with the understanding that the permit holder, in implementation of the project, will proceed in compliance with the general and special conditions contained herein. The permit holder is expected to minimize adverse impacts to the structural and functional integrity of the natural systems and aesthetics associated with the Scenic River where the activity is occurring to preserve the fundamental character and purpose for which the System was established.

The Administrator assumes no responsibility and incurs no liability for injury or damage to persons or property caused by any act or omission of the permit holder or his agent in the permission granted by this permit. In addition to the Department of Wildlife & Fisheries (LDWF), the application was given a full and thorough evaluation by the Louisiana Departments of Agriculture & Forestry; Culture, Recreation & Tourism; Environmental Quality; and the Office of State Planning and Budget. If during the review process, objections were made to the proposed activity, those objections were either found to be insignificant or they have been included in the conditions of the permit.

This permit shall expire if the permitted activity has not begun within 18 months of the "Effective Date" indicated above.

The Permittee shall adhere to and comply with the following permit conditions:

General Conditions:

- 1) The permittee shall properly install adequate erosion/siltation control measures around construction areas that require land based earthwork (i.e. excavation and/or deposition of fill materials, land contouring, machinery rutting, fill maneuvering and redistribution, etc.), to ensure that no project related sediments, debris and other pollutants enter Bayou LaBranche. Acceptable measures include but are not limited to the proper use and positioning of temporary silt fences, straw bales, fiber/core logs, wooden barriers, seeding or sodding of exposed soils, or other approved EPA construction site storm-water runoff control and best practices. Control techniques shall be installed prior to the commencement of earthwork activities and maintained until the project is complete and/or the subject areas are stabilized.

Upon the completion of construction activities or if at any time construction activities cease for more than 14 days, all disturbed soils shall be re-vegetated by sod, seed, or another acceptable method, as necessary, to restore cover and prevent erosion.

- 2) The permittee will acquire all other federal, state, local, and municipal permits and permissions required for the permitted activity prior to commencement of work. The permittee has title to the property or permission from the landowner to implement the project.
- 3) If during project activity, any sensitive archaeological, biological or botanical element is encountered, activity will temporarily cease and the permit holder will contact the Administrator to determine the disposition of that element or artifact.
- 4) This project must be carried out in a manner consistent with the design that the permittee submitted during the permit process and as depicted in the attached "final plats". Should significant physical modification to the project become necessary during implementation of the project or after its completion, the permit holder will submit a letter of explanation within one week of discovery to the Administrator to determine if another permit application will be required.
- 5) The permittee shall allow representatives of LDWF to make periodic inspections to ensure the activity is in accordance with the conditions of this permit.

Special Conditions:

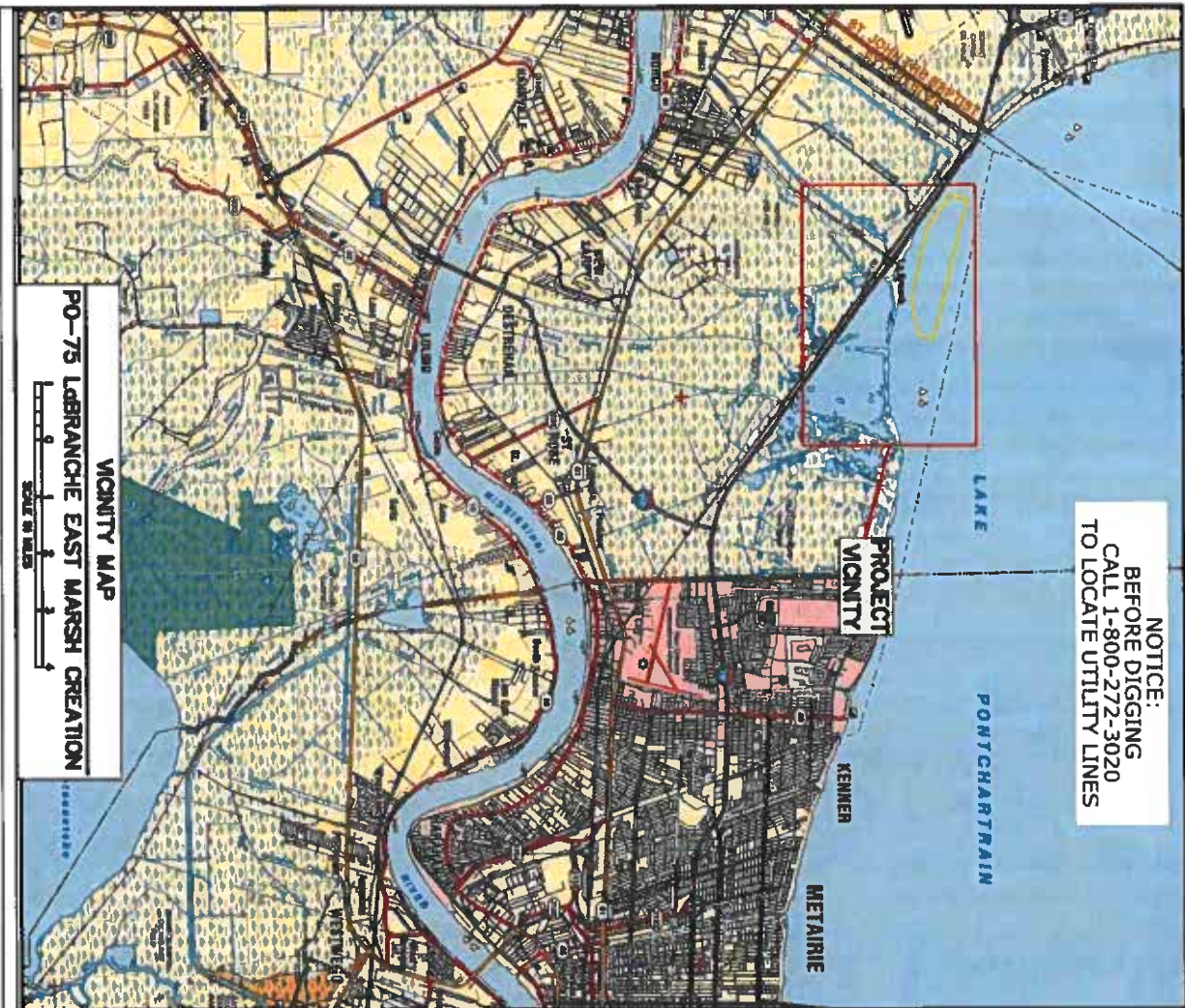
- 1) Upon completion of the activities authorized by this permit, the permittee shall immediately contact this Department (*Chris Davis at (225)765-2642 or*

[rcdavis@wlf.la.gov](mailto:rcdavis@wlf.la.gov)) and submit post-construction, photographic documentation of the proposed project to LDWF within 30 days following project completion. LDWF will review the completed activity to assure that all activities were performed in accordance with the conditions of this permit.

- 2) The permittee shall ensure that all contractors, subcontractors, and workers are made fully aware of the limits of the work authorized by this permit and adhere to and comply with all conditions listed in this Scenic Rivers permit. Non-compliance with permit terms and conditions may result in permit suspension or revocation, and all other remedies allowed by law.

If you need additional information, please contact Mr. Chris Davis, Scenic Rivers Coordinator, in the Baton Rouge Office at (225) 765-2642.

  
For: Jack Montoucet  
Administrator



**NOTICE:**  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES

**PO-75 LABRANCHE EAST MARSH CREATION**  
**VICINITY MAP**

SCALE IN MILES

**PO-75 LABRANCHE EAST 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**  
**2021**



LOCATION IN LOUISIANA  
(ST. CHARLES PARISH)

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6. TYPICAL SECTIONS
7. GEOTECHNICAL DETAILS
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10. TIDAL FLOODS AND TIDAL CURRENTS DETAILS
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26. TIDAL FLOODS AND TIDAL CURRENTS DETAILS
27. TIDAL FLOODS AND TIDAL CURRENTS DETAILS
- 28-32. SOIL BORING LOGS

**PRELIMINARY**  
**FOR**

**REVIEW ONLY**

|          |             |      |       |
|----------|-------------|------|-------|
| DESIGNED | N. MCCOY    | DATE | 07/21 |
| DRAWN    | A. GONZALEZ | DATE | 07/21 |
| CHECKED  | B. SAMSON   | DATE | 07/21 |
| APPROVED |             |      |       |

**USDA** United States Department of Agriculture  
**Natural Resources Conservation Service**

**PROJECT NAME**  
PO-75 LABRANCHE EAST MARSH CREATION

**DRAWING NAME**  
LA-300-01

**SHEET NO. OF 32**



ABBREVIATIONS

- POB = POINT OF BEGINNING  
POE = POINT OF ENDING  
DNIR = DEPARTMENT OF NATURAL RESOURCES  
STA. = STATION  
ELEV. = ELEVATION  
FT. = FEET  
NO. = NUMBER  
PT. = POINT  
TP = TIDAL PONDS  
TC = TIDAL CREEKS  
MT = MARSH BUGGY TRACKS  
SG = STAFF GAUGE  
LB = LIGHTED BUOY  
OP = DISCHARGE PIPE

GENERAL NOTES

1. SURVEYS WERE CONDUCTED USING RTK AND WPPACK ON THE SOUTH LOUISIANA ZONE, NORTH AMERICAN DATUM OF 1983 AND GEOID 03.
2. IMAGE DATE IS 2020 AND PRODUCED BY N.A.I.P. (NATIONAL AGRICULTURE IMAGERY PROGRAM)
3. NO DREDGING WILL BE ALLOWED WITHIN 100' EITHER SIDE OF IDENTIFIED PIPELINES.
4. MAGNETOMETER SURVEYS CAN BE PROVIDED UPON REQUEST.

DESIGN NOTES

1. CELL 1 WITHIN BORROW AREA AS IDENTIFIED ON SHEET 4 SHALL BE DREDGED COMPLETELY AND WITH ENGINEER APPROVAL PRIOR TO MOVING TO ANOTHER CELL TO COMPLETE CONSTRUCTION.
2. TIDAL PONDS SHALL BE INTERCONNECTED WITH MARSH BUGGY TRACKS POST FIL AT DISCRETION OF C.O.E. TIDAL PONDS CONNECTED WITH MARSH BUGGY TRACKS AS SHOWN ON SHEETS 23 AND 24.
3. THE TIDAL PONDS AND TIDAL CREEKS SHALL BE EXCAVATED TO THE DEPTH SHOWN ON SHEET 13.
4. STUMPS AND OTHER WOODY MATERIAL MAY BE ENCOUNTERED WITHIN THE MARSH CREATION BORROW AREA.

LEGEND

- DP-43 - PRIMARY DISCHARGE PIPELINE  
LB-17 - LIGHTED BUOYS  
53 - EQUIPMENT ACCESS CORRIDOR  
 - CONTAINMENT DIKE CENTERLINE (PLAN)  
 - PROPERTY LINE/LEASE LIMITS  
 - ELECTRICAL POWER LINE  
 - WORK LIMITS (MARSH CREATION AREAS)  
 - AUXILIARY CREATION AREA  
 - PIPELINE  
 - MARSH CREATION AREA LIMITS  
 - BORROW AREA LIMITS  
SG-18 - STAFF GAUGES  
 - TIDAL PONDS  
 - TIDAL CREEKS  
MT-105 - MARSH BUGGY TRACKS  
BHBA-6 - GEOTECHNICAL BORING  
105 - SURVEY TRANSECTS (BORROW AREA)

NOTICE:  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES

| REVISIONS     |              |
|---------------|--------------|
| NO. DATE      | DESCRIPTION  |
| 01 12/11/2021 | REVISED DATE |

DESIGNED: N. MCCOY  
DRAWN: A. GREMILLION  
CHECKED: B. SAMSON  
APPROVED: \_\_\_\_\_

DATE: 07/21  
07/21  
07/21

FILE NAME: LA-380-02  
DRAWING NAME: LA-380-02  
SHEET 02 of 32

USDA  
United States  
Department of  
Agriculture  
Natural Resources  
Conservation Service

GENERAL NOTES AND LEGEND  
PO-75 LoBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

PRELIMINARY  
FOR  
REVIEW ONLY



PROPERTY OWNERSHIP MAP  
PO-75 LaBRANCHE EAST MARSH CREATION

LAKE PONTCHARTRAIN

NOTICE:  
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PRELIMINARY  
FOR  
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SHEET 03 of 32

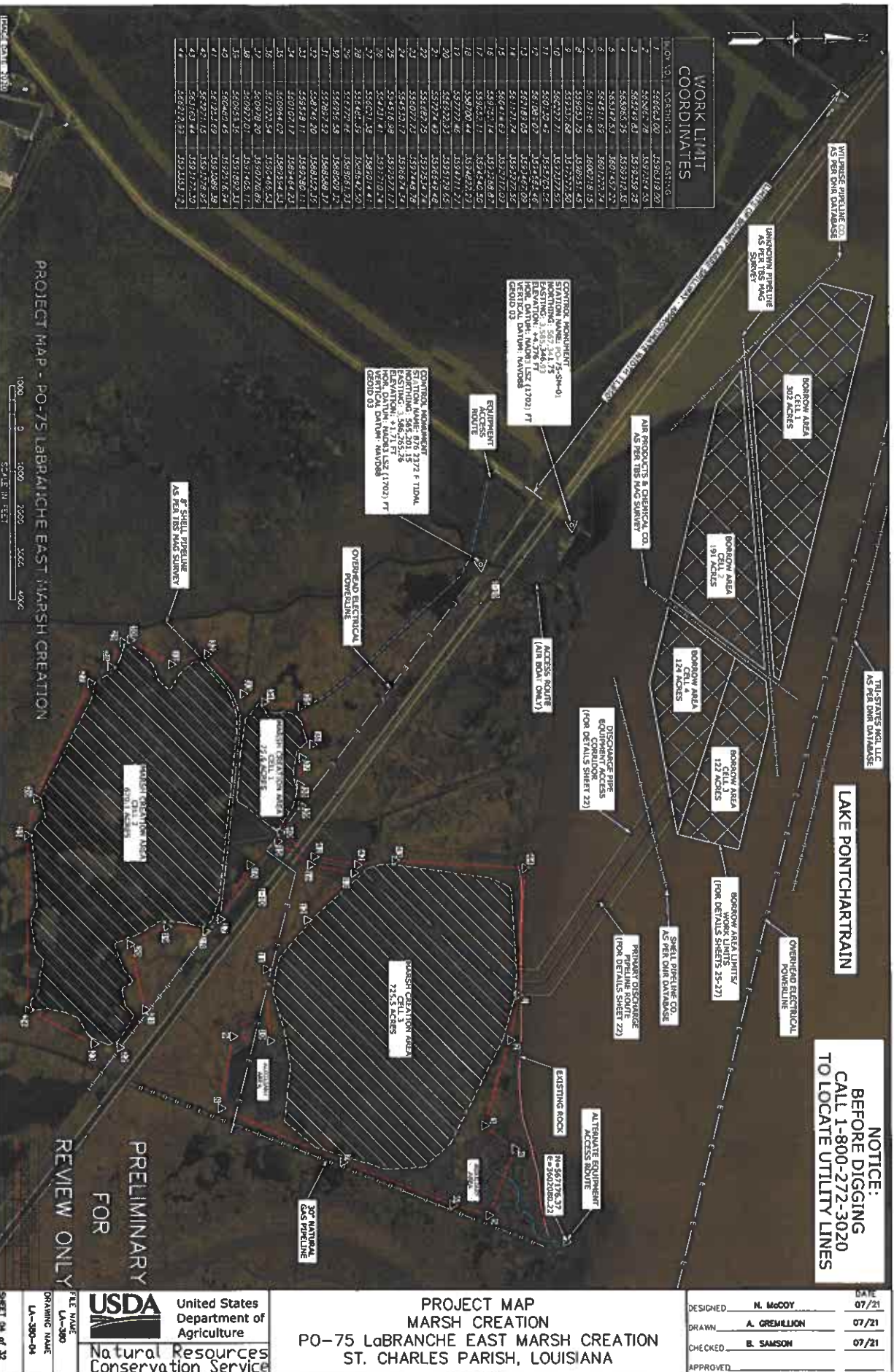


United States  
Department of  
Agriculture

Natural Resources  
Conservation Service

PROJECT AREA  
PROPERTY OWNERSHIP MAP  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

|          |              |      |       |
|----------|--------------|------|-------|
| DESIGNED | N. McCOY     | DATE | 07/21 |
| DRAWN    | A. CREMLIION |      | 07/21 |
| CHECKED  | B. SAMSON    |      | 07/21 |
| APPROVED |              |      |       |



| WORK LIMIT COORDINATES |           |
|------------------------|-----------|
| STATION                | EASTING   |
| 1                      | 559521.75 |
| 2                      | 559521.75 |
| 3                      | 559521.75 |
| 4                      | 559521.75 |
| 5                      | 559521.75 |
| 6                      | 559521.75 |
| 7                      | 559521.75 |
| 8                      | 559521.75 |
| 9                      | 559521.75 |
| 10                     | 559521.75 |
| 11                     | 559521.75 |
| 12                     | 559521.75 |
| 13                     | 559521.75 |
| 14                     | 559521.75 |
| 15                     | 559521.75 |
| 16                     | 559521.75 |
| 17                     | 559521.75 |
| 18                     | 559521.75 |
| 19                     | 559521.75 |
| 20                     | 559521.75 |
| 21                     | 559521.75 |
| 22                     | 559521.75 |
| 23                     | 559521.75 |
| 24                     | 559521.75 |
| 25                     | 559521.75 |
| 26                     | 559521.75 |
| 27                     | 559521.75 |
| 28                     | 559521.75 |
| 29                     | 559521.75 |
| 30                     | 559521.75 |
| 31                     | 559521.75 |
| 32                     | 559521.75 |
| 33                     | 559521.75 |
| 34                     | 559521.75 |
| 35                     | 559521.75 |
| 36                     | 559521.75 |
| 37                     | 559521.75 |
| 38                     | 559521.75 |
| 39                     | 559521.75 |
| 40                     | 559521.75 |
| 41                     | 559521.75 |
| 42                     | 559521.75 |
| 43                     | 559521.75 |
| 44                     | 559521.75 |

PROJECT MAP - PO-75 LABRANCHE EAST MARSH CREATION



PRELIMINARY FOR REVIEW ONLY

**USDA** United States Department of Agriculture  
Natural Resources Conservation Service

FILE NAME: LA-380  
DRAWING NAME: LA-380-04  
SHEET 04 of 32

PROJECT MAP  
MARSH CREATION  
PO-75 LABRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

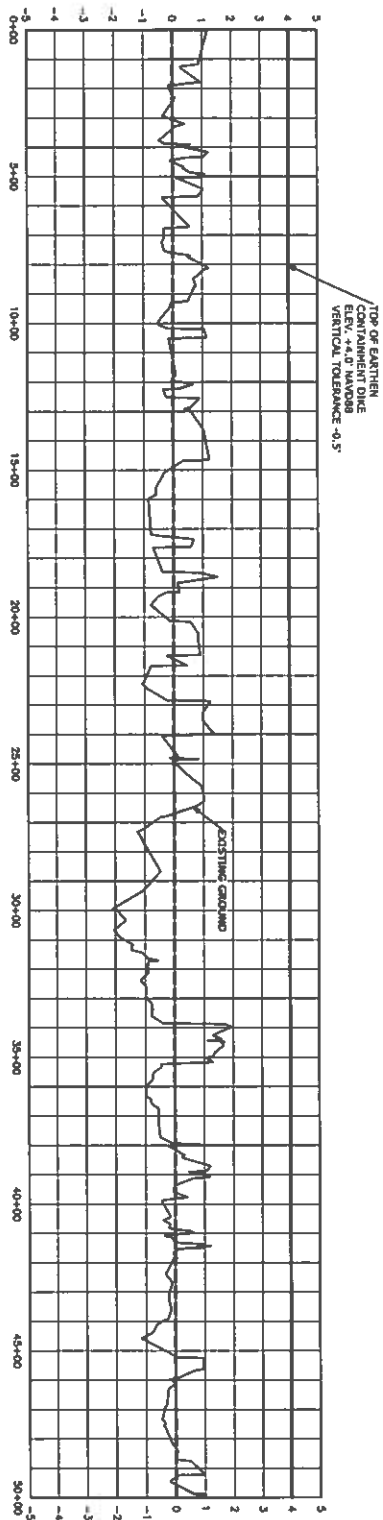
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| APPROVED |               |      |       |



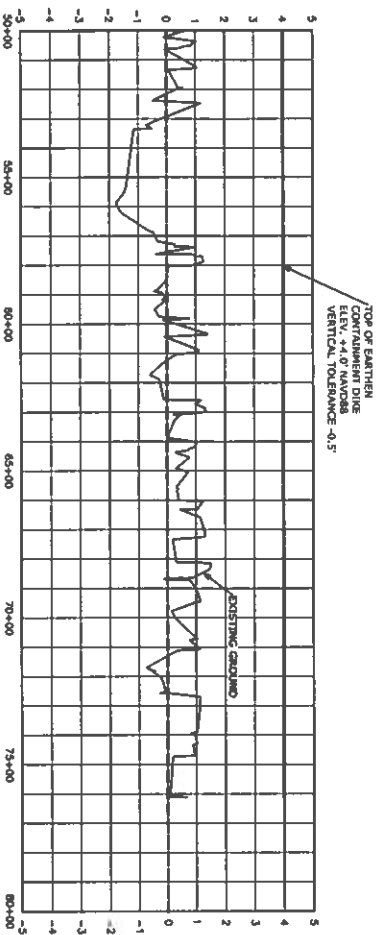
| CONTAINMENT DIKE CENTERLINE CELL 1 PI COORDINATES |           |            | CONTAINMENT DIKE CENTERLINE CELL 2 PI COORDINATES |           |            | CONTAINMENT DIKE CENTERLINE CELL 3 PI COORDINATES |           |            |
|---------------------------------------------------|-----------|------------|---------------------------------------------------|-----------|------------|---------------------------------------------------|-----------|------------|
| STA.                                              | NORTHING  | EASTING    | STA.                                              | NORTHING  | EASTING    | STA.                                              | NORTHING  | EASTING    |
| 0+00                                              | 550082.69 | 3500810.23 | 0+00                                              | 550082.59 | 3500807.97 | 0+00                                              | 551323.47 | 3500424.40 |
| 1+00                                              | 550078.27 | 3500746.27 | 1+00                                              | 550078.17 | 3500746.05 | 1+00                                              | 552468.70 | 3501300.12 |
| 2+00                                              | 550073.84 | 3500672.30 | 2+00                                              | 550073.20 | 3500672.40 | 2+00                                              | 552468.70 | 3501300.12 |
| 3+00                                              | 550069.41 | 3500598.34 | 3+00                                              | 550069.08 | 3500598.40 | 3+00                                              | 552468.70 | 3501300.12 |
| 4+00                                              | 550064.98 | 3500524.38 | 4+00                                              | 550064.55 | 3500524.46 | 4+00                                              | 552468.70 | 3501300.12 |
| 5+00                                              | 550060.55 | 3500450.42 | 5+00                                              | 550060.12 | 3500450.48 | 5+00                                              | 552468.70 | 3501300.12 |
| 6+00                                              | 550056.12 | 3500376.46 | 6+00                                              | 550055.69 | 3500376.54 | 6+00                                              | 552468.70 | 3501300.12 |
| 7+00                                              | 550051.69 | 3500302.50 | 7+00                                              | 550051.26 | 3500302.56 | 7+00                                              | 552468.70 | 3501300.12 |
| 8+00                                              | 550047.26 | 3500228.54 | 8+00                                              | 550046.83 | 3500228.60 | 8+00                                              | 552468.70 | 3501300.12 |
| 9+00                                              | 550042.83 | 3500154.58 | 9+00                                              | 550042.40 | 3500154.64 | 9+00                                              | 552468.70 | 3501300.12 |
| 10+00                                             | 550038.40 | 3500080.62 | 10+00                                             | 550037.97 | 3500080.68 | 10+00                                             | 552468.70 | 3501300.12 |
| 11+00                                             | 550033.97 | 3500006.66 | 11+00                                             | 550033.54 | 3500006.72 | 11+00                                             | 552468.70 | 3501300.12 |
| 12+00                                             | 550029.54 | 3499932.70 | 12+00                                             | 550029.11 | 3499932.76 | 12+00                                             | 552468.70 | 3501300.12 |
| 13+00                                             | 550025.11 | 3499858.74 | 13+00                                             | 550024.68 | 3499858.80 | 13+00                                             | 552468.70 | 3501300.12 |
| 14+00                                             | 550020.68 | 3499784.78 | 14+00                                             | 550020.25 | 3499784.84 | 14+00                                             | 552468.70 | 3501300.12 |
| 15+00                                             | 550016.25 | 3499710.82 | 15+00                                             | 550015.82 | 3499710.88 | 15+00                                             | 552468.70 | 3501300.12 |
| 16+00                                             | 550011.82 | 3499636.86 | 16+00                                             | 550011.39 | 3499636.92 | 16+00                                             | 552468.70 | 3501300.12 |
| 17+00                                             | 550007.39 | 3499562.90 | 17+00                                             | 550006.96 | 3499562.96 | 17+00                                             | 552468.70 | 3501300.12 |
| 18+00                                             | 550002.96 | 3499488.94 | 18+00                                             | 550002.53 | 3499488.99 | 18+00                                             | 552468.70 | 3501300.12 |
| 19+00                                             | 549998.53 | 3499414.98 | 19+00                                             | 549998.10 | 3499415.04 | 19+00                                             | 552468.70 | 3501300.12 |
| 20+00                                             | 549994.10 | 3499340.99 | 20+00                                             | 549993.67 | 3499341.05 | 20+00                                             | 552468.70 | 3501300.12 |
| 21+00                                             | 549989.67 | 3499267.03 | 21+00                                             | 549989.24 | 3499267.09 | 21+00                                             | 552468.70 | 3501300.12 |
| 22+00                                             | 549985.24 | 3499193.07 | 22+00                                             | 549984.81 | 3499193.13 | 22+00                                             | 552468.70 | 3501300.12 |
| 23+00                                             | 549980.81 | 3499119.11 | 23+00                                             | 549980.38 | 3499119.17 | 23+00                                             | 552468.70 | 3501300.12 |
| 24+00                                             | 549976.38 | 3499045.15 | 24+00                                             | 549975.95 | 3499045.21 | 24+00                                             | 552468.70 | 3501300.12 |
| 25+00                                             | 549971.95 | 3498971.19 | 25+00                                             | 549971.52 | 3498971.25 | 25+00                                             | 552468.70 | 3501300.12 |
| 26+00                                             | 549967.52 | 3498897.23 | 26+00                                             | 549967.09 | 3498897.29 | 26+00                                             | 552468.70 | 3501300.12 |
| 27+00                                             | 549963.09 | 3498823.27 | 27+00                                             | 549962.66 | 3498823.33 | 27+00                                             | 552468.70 | 3501300.12 |
| 28+00                                             | 549958.66 | 3498749.31 | 28+00                                             | 549958.23 | 3498749.37 | 28+00                                             | 552468.70 | 3501300.12 |
| 29+00                                             | 549954.23 | 3498675.35 | 29+00                                             | 549953.80 | 3498675.41 | 29+00                                             | 552468.70 | 3501300.12 |
| 30+00                                             | 549949.80 | 3498601.39 | 30+00                                             | 549949.37 | 3498601.45 | 30+00                                             | 552468.70 | 3501300.12 |
| 31+00                                             | 549945.37 | 3498527.43 | 31+00                                             | 549944.94 | 3498527.49 | 31+00                                             | 552468.70 | 3501300.12 |
| 32+00                                             | 549940.94 | 3498453.47 | 32+00                                             | 549940.51 | 3498453.53 | 32+00                                             | 552468.70 | 3501300.12 |
| 33+00                                             | 549936.51 | 3498379.51 | 33+00                                             | 549936.08 | 3498379.57 | 33+00                                             | 552468.70 | 3501300.12 |
| 34+00                                             | 549932.08 | 3498305.55 | 34+00                                             | 549931.65 | 3498305.61 | 34+00                                             | 552468.70 | 3501300.12 |
| 35+00                                             | 549927.65 | 3498231.59 | 35+00                                             | 549927.22 | 3498231.65 | 35+00                                             | 552468.70 | 3501300.12 |
| 36+00                                             | 549923.22 | 3498157.63 | 36+00                                             | 549922.79 | 3498157.69 | 36+00                                             | 552468.70 | 3501300.12 |
| 37+00                                             | 549918.79 | 3498083.67 | 37+00                                             | 549918.36 | 3498083.73 | 37+00                                             | 552468.70 | 3501300.12 |
| 38+00                                             | 549914.36 | 3498009.71 | 38+00                                             | 549913.93 | 3498009.77 | 38+00                                             | 552468.70 | 3501300.12 |
| 39+00                                             | 549909.93 | 3497935.75 | 39+00                                             | 549909.50 | 3497935.81 | 39+00                                             | 552468.70 | 3501300.12 |
| 40+00                                             | 549905.50 | 3497861.79 | 40+00                                             | 549905.07 | 3497861.85 | 40+00                                             | 552468.70 | 3501300.12 |
| 41+00                                             | 549901.07 | 3497787.83 | 41+00                                             | 549900.64 | 3497787.89 | 41+00                                             | 552468.70 | 3501300.12 |
| 42+00                                             | 549896.64 | 3497713.87 | 42+00                                             | 549896.21 | 3497713.93 | 42+00                                             | 552468.70 | 3501300.12 |
| 43+00                                             | 549892.21 | 3497639.91 | 43+00                                             | 549891.78 | 3497639.97 | 43+00                                             | 552468.70 | 3501300.12 |
| 44+00                                             | 549887.78 | 3497565.95 | 44+00                                             | 549887.35 | 3497566.01 | 44+00                                             | 552468.70 | 3501300.12 |
| 45+00                                             | 549883.35 | 3497491.99 | 45+00                                             | 549882.92 | 3497492.05 | 45+00                                             | 552468.70 | 3501300.12 |
| 46+00                                             | 549878.92 | 3497418.03 | 46+00                                             | 549878.49 | 3497418.09 | 46+00                                             | 552468.70 | 3501300.12 |
| 47+00                                             | 549874.49 | 3497344.07 | 47+00                                             | 549874.06 | 3497344.13 | 47+00                                             | 552468.70 | 3501300.12 |
| 48+00                                             | 549870.06 | 3497270.11 | 48+00                                             | 549869.63 | 3497270.17 | 48+00                                             | 552468.70 | 3501300.12 |
| 49+00                                             | 549865.63 | 3497196.15 | 49+00                                             | 549865.20 | 3497196.21 | 49+00                                             | 552468.70 | 3501300.12 |
| 50+00                                             | 549861.20 | 3497122.19 | 50+00                                             | 549860.77 | 3497122.25 | 50+00                                             | 552468.70 | 3501300.12 |
| 51+00                                             | 549856.77 | 3497048.23 | 51+00                                             | 549856.34 | 3497048.29 | 51+00                                             | 552468.70 | 3501300.12 |
| 52+00                                             | 549852.34 | 3496974.27 | 52+00                                             | 549851.91 | 3496974.33 | 52+00                                             | 552468.70 | 3501300.12 |
| 53+00                                             | 549847.91 | 3496900.31 | 53+00                                             | 549847.48 | 3496900.37 | 53+00                                             | 552468.70 | 3501300.12 |
| 54+00                                             | 549843.48 | 3496826.35 | 54+00                                             | 549843.05 | 3496826.41 | 54+00                                             | 552468.70 | 3501300.12 |
| 55+00                                             | 549839.05 | 3496752.39 | 55+00                                             | 549838.62 | 3496752.45 | 55+00                                             | 552468.70 | 3501300.12 |
| 56+00                                             | 549834.62 | 3496678.43 | 56+00                                             | 549834.19 | 3496678.49 | 56+00                                             | 552468.70 | 3501300.12 |
| 57+00                                             | 549830.19 | 3496604.47 | 57+00                                             | 549829.76 | 3496604.53 | 57+00                                             | 552468.70 | 3501300.12 |
| 58+00                                             | 549825.76 | 3496530.51 | 58+00                                             | 549825.33 | 3496530.57 | 58+00                                             | 552468.70 | 3501300.12 |
| 59+00                                             | 549821.33 | 3496456.55 | 59+00                                             | 549820.90 | 3496456.61 | 59+00                                             | 552468.70 | 3501300.12 |
| 60+00                                             | 549816.90 | 3496382.59 | 60+00                                             | 549816.47 | 3496382.65 | 60+00                                             | 552468.70 | 3501300.12 |
| 61+00                                             | 549812.47 | 3496308.63 | 61+00                                             | 549812.04 | 3496308.69 | 61+00                                             | 552468.70 | 3501300.12 |
| 62+00                                             | 549808.04 | 3496234.67 | 62+00                                             | 549807.61 | 3496234.73 | 62+00                                             | 552468.70 | 3501300.12 |
| 63+00                                             | 549803.61 | 3496160.71 | 63+00                                             | 549803.18 | 3496160.77 | 63+00                                             | 552468.70 | 3501300.12 |
| 64+00                                             | 549799.18 | 3496086.75 | 64+00                                             | 549798.75 | 3496086.81 | 64+00                                             | 552468.70 | 3501300.12 |
| 65+00                                             | 549794.75 | 3496012.79 | 65+00                                             | 549794.32 | 3496012.85 | 65+00                                             | 552468.70 | 3501300.12 |
| 66+00                                             | 549790.32 | 3495938.83 | 66+00                                             | 549789.89 | 3495938.89 | 66+00                                             | 552468.70 | 3501300.12 |
| 67+00                                             | 549785.89 | 3495864.87 | 67+00                                             | 549785.46 | 3495864.93 | 67+00                                             | 552468.70 | 3501300.12 |
| 68+00                                             | 549781.46 | 3495790.91 | 68+00                                             | 549781.03 | 3495790.97 | 68+00                                             | 552468.70 | 3501300.12 |
| 69+00                                             | 549777.03 | 3495716.95 | 69+00                                             | 549776.60 | 3495717.01 | 69+00                                             | 552468.70 | 3501300.12 |
| 70+00                                             | 549772.60 | 3495642.99 | 70+00                                             | 549772.17 | 3495643.05 | 70+00                                             | 552468.70 | 3501300.12 |
| 71+00                                             | 549768.17 | 3495569.03 | 71+00                                             | 549767.74 | 3495569.09 | 71+00                                             | 552468.70 | 3501300.12 |
| 72+00                                             | 549763.74 | 3495495.07 | 72+00                                             | 549763.31 | 3495495.13 | 72+00                                             | 552468.70 | 3501300.12 |
| 73+00                                             | 549759.31 | 3495421.11 | 73+00                                             | 549758.88 | 3495421.17 | 73+00                                             | 552468.70 | 3501300.12 |
| 74+00                                             | 549754.88 | 3495347.15 | 74+00                                             | 549754.45 | 3495347.21 | 74+00                                             | 552468.70 | 3501300.12 |
| 75+00                                             | 549750.45 | 3495273.19 | 75+00                                             | 549749.99 | 3495273.25 | 75+00                                             | 552468.70 | 3501300.12 |
| 76+00                                             | 549746.02 | 3495199.23 | 76+00                                             | 549745.56 | 3495199.29 | 76+00                                             | 552468.70 | 3501300.12 |
| 77+00                                             | 549741.59 | 3495125.27 | 77+00                                             | 549741.13 | 3495125.33 | 77+00                                             | 552468.70 | 3501300.12 |
| 78+00                                             | 549737.16 | 3495051.31 | 78+00                                             | 549736.73 | 3495051.37 | 78+00                                             | 552468.70 | 3501300.12 |
| 79+00                                             | 549732.73 | 3494977.35 | 79+00                                             | 549732.30 | 3494977.41 | 79+00                                             | 552468.70 | 3501300.12 |
| 80+00                                             | 549728.30 | 3494903.39 | 80+00                                             | 549727.87 | 3494903.45 | 80+00                                             | 552468.70 | 3501300.12 |
| 81+00                                             | 549723.87 | 3494829.43 | 81+00                                             | 549723.44 | 3494829.49 | 81+00                                             | 552468.70 | 3501300.12 |
| 82+00                                             | 549719.44 | 3494755.47 | 82+00                                             | 549719.01 | 3494755.53 | 82+00                                             | 552468.70 | 3501300.12 |
| 83+00                                             | 549715.01 | 3494681.51 | 83+00                                             | 549714.58 | 3494681.57 | 83+00                                             | 552468.70 | 3501300.12 |
| 84+00                                             | 549710.58 | 3494607.55 | 84+00                                             | 549710.15 | 3494607.61 | 84+00                                             | 552468.70 | 3501300.12 |
| 85+00                                             | 549706.15 | 3494533.59 | 85+00                                             | 549705.72 | 3494533.65 | 85+00                                             | 552468.70 | 3501300.12 |
| 86+00                                             | 549701.72 | 3494459.63 | 86+00                                             | 549701.29 | 3494459.69 | 86+00                                             | 552468.70 | 3501300.12 |
| 87+00                                             | 549697.29 | 3494385.67 | 87+00                                             | 549696.86 | 3494385.73 | 87+00                                             | 552468.70 | 3501300.12 |
| 88+00                                             | 549692.86 | 3494311.71 | 88+00                                             | 549692.43 | 3494311.77 | 88+00                                             | 552468.70 | 3501300.12 |
| 89+00                                             | 549688.43 | 3494237.75 | 89+00                                             | 549688.00 | 3494237.81 | 89+00                                             | 552468.70 | 3501300.12 |
| 90+00                                             | 549684.00 | 3494163.79 | 90+00                                             | 549683.57 | 3494163.85 | 90+00                                             | 552468.70 | 3501300.12 |
| 91+00                                             | 549679.57 | 3494089.83 | 91+00                                             | 549679.14 | 3494089.89 | 91+00                                             | 552468.70 | 3501300.12 |
| 92+00                                             | 549675.14 | 3494015.87 | 92+00                                             | 549674.71 | 3494015.93 | 92+00                                             | 552468.70 | 3501300.12 |
| 93+00                                             | 549670.71 | 3493941.91 | 93+00                                             | 549670.28 | 3493941.97 | 93+00                                             | 552468.70 | 3501300.12 |
| 94+00                                             | 549666.28 | 3493867.95 | 94+00                                             | 549665.85 | 3493868.01 | 94+00                                             | 552468.70 | 3501300.12 |
| 95+00                                             | 549661.85 | 3493793.99 | 95+00                                             | 549661.42 | 3493794.05 | 95+00                                             | 552468.70 | 3501300.12 |
| 96+00                                             | 549657.42 | 3493720.03 | 96+00                                             | 549656.99 | 3493720.09 | 96+00                                             | 552468.70 | 3501300.12 |
| 97+00                                             | 549652.99 | 3493646.07 | 97+00                                             | 549652.56 | 3493646.13 | 97+00                                             | 552468.70 | 3501300.12 |
| 98+00                                             | 549648.56 | 3493572.11 | 98+00                                             | 549648.13 | 3493572.17 | 98+00                                             | 552468.70 | 3501300.12 |





NOTICE:  
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TO LOCATE UTILITY LINES

CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 1) - STA. 0+00 to STA. 50+00



CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 1) - STA. 50+00 to STA. 76+12

**PRELIMINARY**  
FOR  
**REVIEW ONLY**

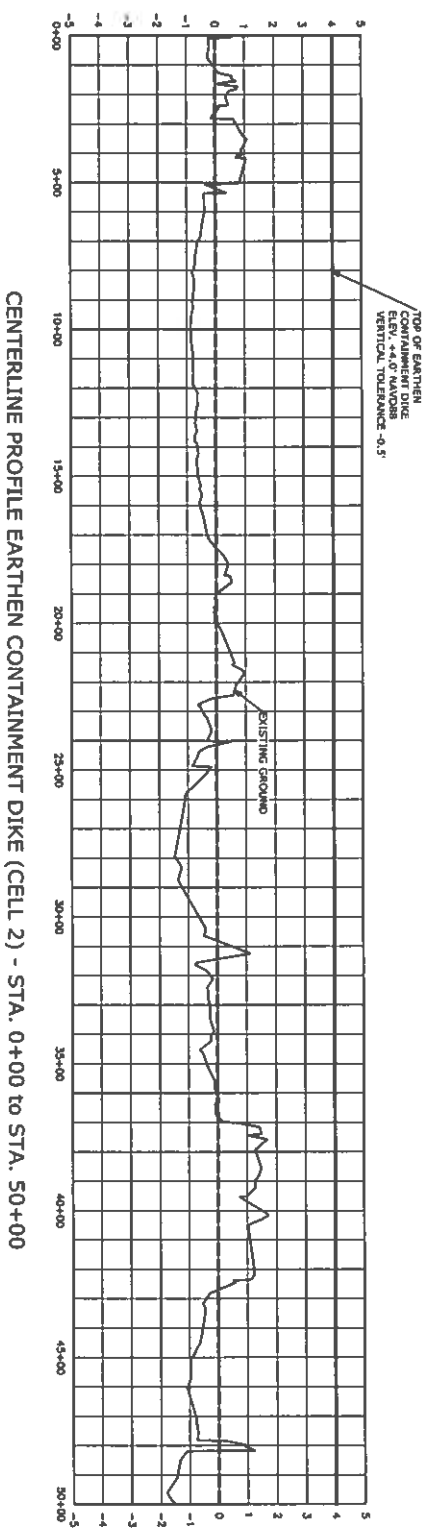
**USDA** United States  
Department of  
Agriculture

**Natural Resources  
Conservation Service**

DATE: 07/21/09  
DRAWING NAME: LA-380-08  
SHEET 08 OF 32

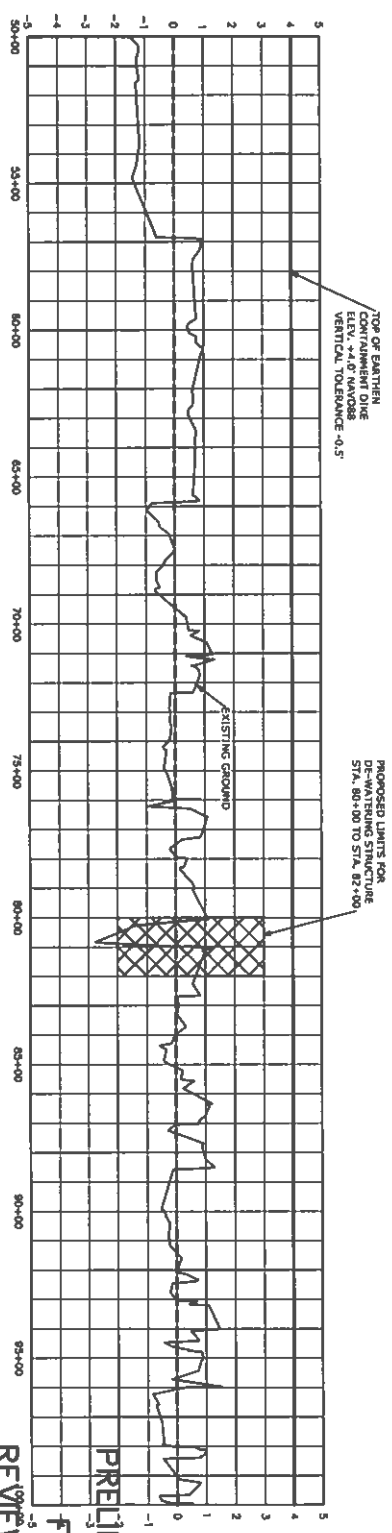
PROFILE EARTHEN CONTAINMENT DIKE (CELL 1)  
STA. 0+00 to STA. 76+12  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

DESIGNED: N. McCOY 07/21  
DRAWN: A. GREMILLION 07/21  
CHECKED: B. SAMSON 07/21  
APPROVED: \_\_\_\_\_



CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 2) - STA. 0+00 TO STA. 50+00

NOTICE:  
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TO LOCATE UTILITY LINES



CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 2) - STA. 50+00 TO STA. 100+00

REVISIONS

|       |          |    |              |
|-------|----------|----|--------------|
| NO. 1 | DATE     | BY | DESCRIPTION  |
| 1     | 07/21/07 | AM | REVISED DATE |

PRELIMINARY  
FOR REVIEW ONLY

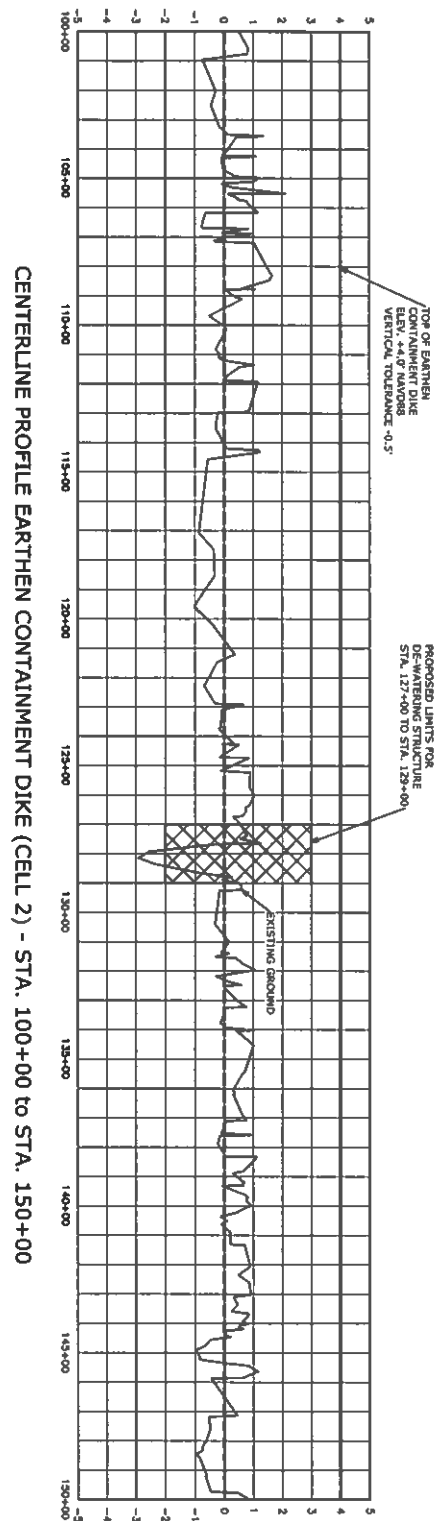
FILE NAME  
LA-380-07  
DRAWING NAME  
LA-380-07  
SHEET 07 of 32



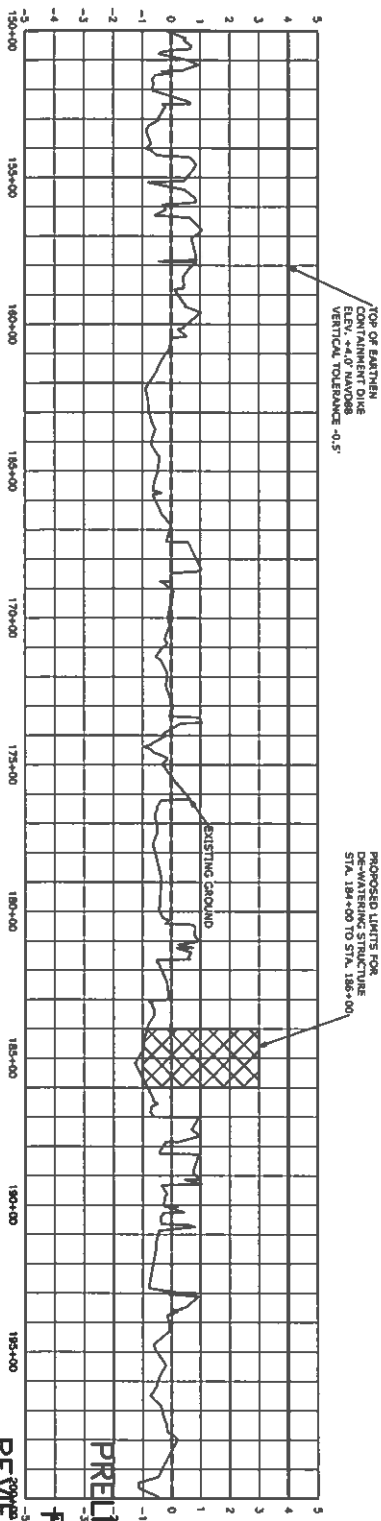
PROFILE EARTHEN CONTAINMENT DIKE (CELL 2)  
STA. 0+00 TO STA. 100+00  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

|          |              |      |       |
|----------|--------------|------|-------|
| DESIGNED | N. MCCOY     | DATE | 07/21 |
| DRAWN    | A. GREMLIKON |      | 07/21 |
| CHECKED  | B. SAMSON    |      | 07/21 |
| APPROVED |              |      |       |

NOTICE:  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES



CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 2) - STA. 100+00 to STA. 150+00



CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 2) - STA. 150+00 to STA. 200+00

REVIEW ONLY  
FOR

| NO. | DATE    | REVISIONS    |
|-----|---------|--------------|
| 1   | 7/22/02 | PROPOSED DIT |
| 2   | 7/22/02 | REVISED      |

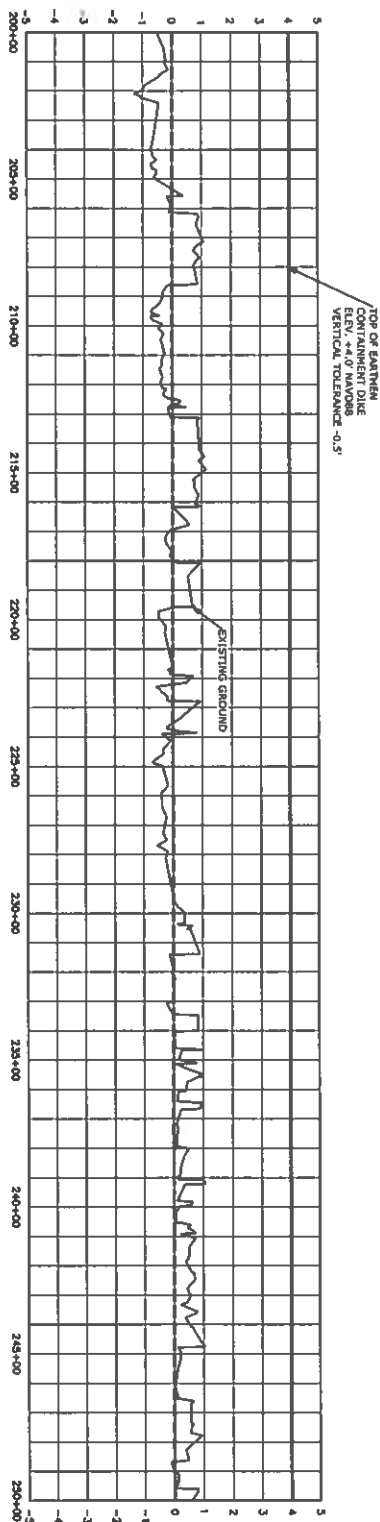
**USDA**  
United States  
Department of  
Agriculture  
  
Natural Resources  
Conservation Service

PROFILE EARTHEN CONTAINMENT DIKE (CELL 2)  
STA. 100+00 to STA. 200+00  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

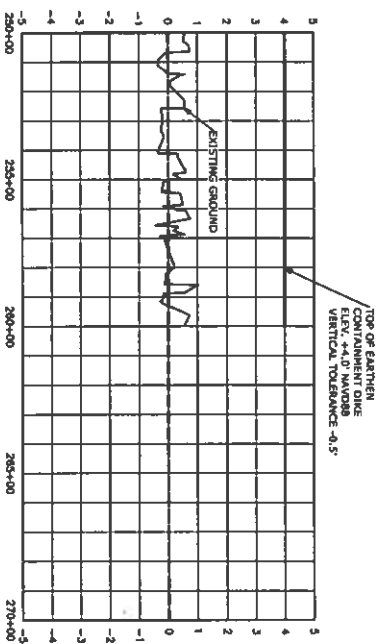
| DESIGNED | N. MCCOY      | DATE | 07/21 |
|----------|---------------|------|-------|
| DRAWN    | A. GREMILLION | DATE | 07/21 |
| CHECKED  | B. SAMSON     | DATE | 07/21 |
| APPROVED |               | DATE |       |



**NOTICE:**  
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CALL 1-800-272-3020  
TO LOCATE UTILITY LINES



CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 2) - STA. 200+00 to STA. 250+00



CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 2) - STA. 250+00 to STA. 260+00

| REVISIONS |          |
|-----------|----------|
| NO.       | DATE     |
| 1         | 07/21/00 |
| 2         | 07/21/00 |
| 3         | 07/21/00 |
| 4         | 07/21/00 |
| 5         | 07/21/00 |
| 6         | 07/21/00 |
| 7         | 07/21/00 |
| 8         | 07/21/00 |
| 9         | 07/21/00 |
| 10        | 07/21/00 |

**PRELIMINARY**  
**FOR**  
**REVIEW ONLY**

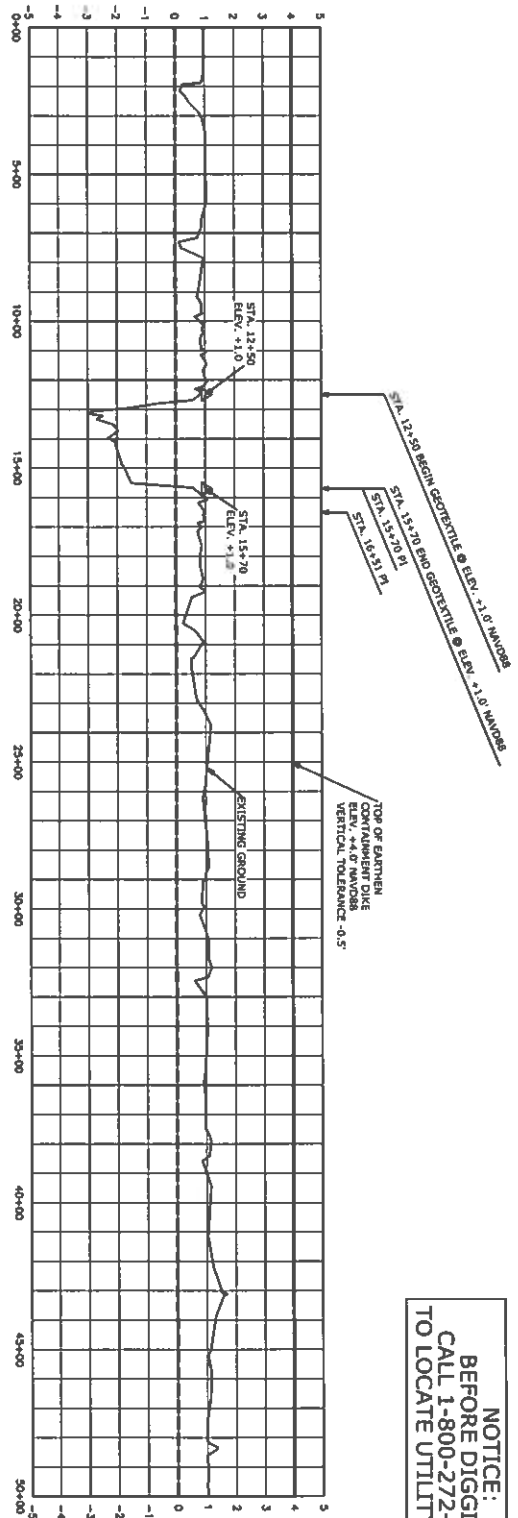


PROFILE EARTHEN CONTAINMENT DIKE (CELL 2)  
STA. 200+00 to STA. 260+00  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

|          |              |      |       |
|----------|--------------|------|-------|
| DESIGNED | N. MCCOY     | DATE | 07/21 |
| DRAWN    | A. GEMILLION | DATE | 07/21 |
| CHECKED  | B. SAMSON    | DATE | 07/21 |
| APPROVED |              |      |       |

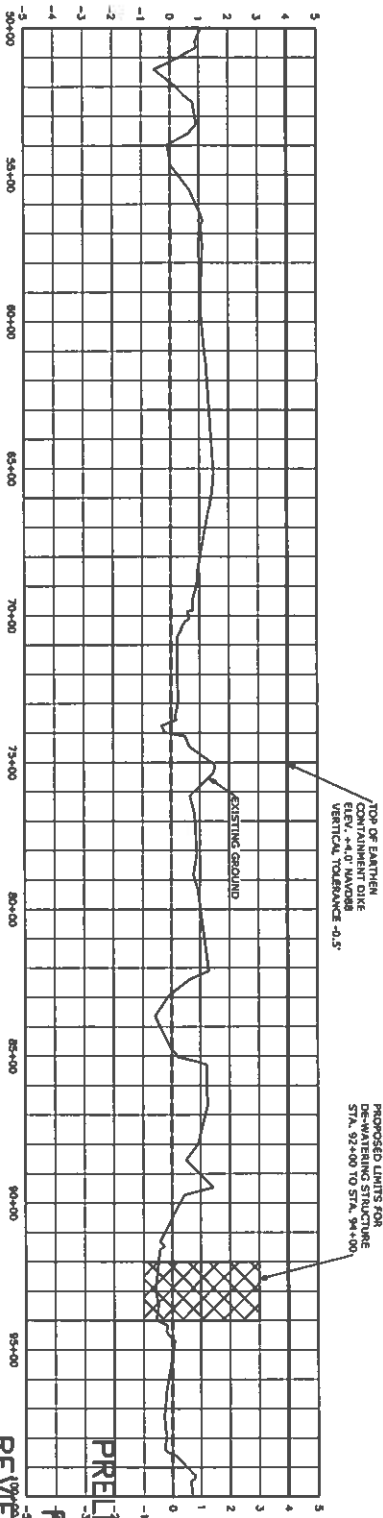
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LA-280  
DRAWING NAME  
LA-280-08  
SHEET 09 of 32

CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 3) - STA. 0+00 TO STA. 50+00



NOTICE:  
BEFORE DIGGING  
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TO LOCATE UTILITY LINES

CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 3) - STA. 50+00 TO STA. 100+00



PRELIMINARY  
FOR  
REVIEW ONLY

| REVISIONS | DATE     | BY | CHK |
|-----------|----------|----|-----|
| 1         | 07/21/07 | AM | AM  |
| 2         | 07/21/07 | AM | AM  |

FILE NAME  
LA-300  
DRAWING NAME  
LA-300-10  
SHEET 10 of 32

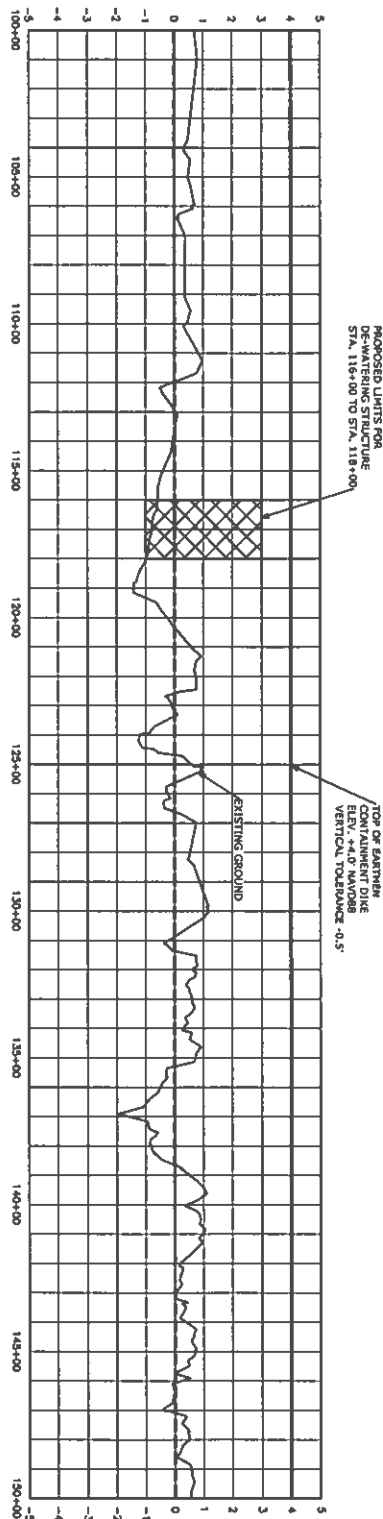


PROFILE EARTHEN CONTAINMENT DIKE (CELL 3)  
STA. 0+00 TO STA. 100+00  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

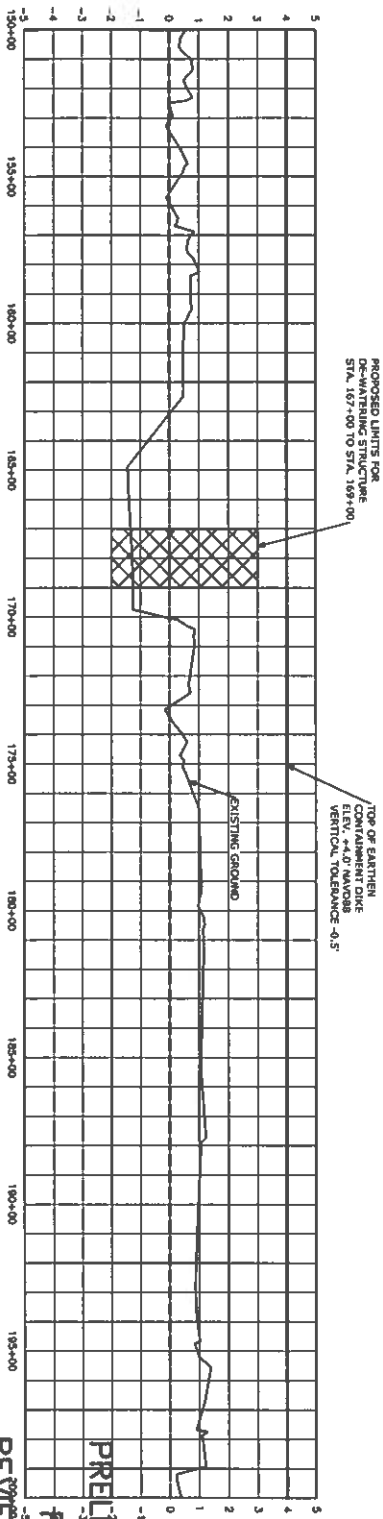
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| DESIGNED | N. MCCOY      | DATE | 07/21 |
| DRAWN    | A. GREMILLION | DATE | 07/21 |
| CHECKED  | B. SAMSON     | DATE | 07/21 |
| APPROVED |               |      |       |

NOTICE:  
BEFORE DIGGING  
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TO LOCATE UTILITY LINES

CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 3) - STA. 100+00 TO STA. 150+00



CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 3) - STA. 150+00 TO STA. 200+00



PRELIMINARY  
FOR  
REVIEW ONLY

|          |       |
|----------|-------|
| DESIGNED | DATE  |
| DRAWN    | 07/21 |
| CHECKED  | 07/21 |
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United States  
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Agriculture

Natural Resources  
Conservation Service

FILE NAME  
LA-380

DRAWING NAME  
LA-380-11

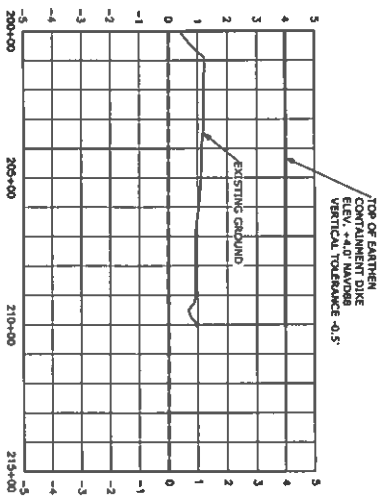
DATE  
07/21/2011

SHEET 11 OF 32

PROFILE EARTHEN CONTAINMENT DIKE (CELL 3)  
STA. 100+00 TO STA. 200+00  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

|          |             |      |       |
|----------|-------------|------|-------|
| DESIGNED | N. McCOY    | DATE | 07/21 |
| DRAWN    | A. CRELLIUM | DATE | 07/21 |
| CHECKED  | B. SAMSON   | DATE | 07/21 |
| APPROVED |             |      |       |

NOTICE:  
BEFORE DIGGING  
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TO LOCATE UTILITY LINES



CENTERLINE PROFILE EARTHEN CONTAINMENT DIKE (CELL 3) - STA. 200+00 to STA. 210+07

REVISIONS  
BY DATE  
1 10/1/09  
2 10/1/09  
3 10/1/09

PRELIMINARY  
FOR  
REVIEW ONLY

FILE NAME  
LA-200-12  
DRAWING NAME  
LA-200-12  
SHEET 12 of 32



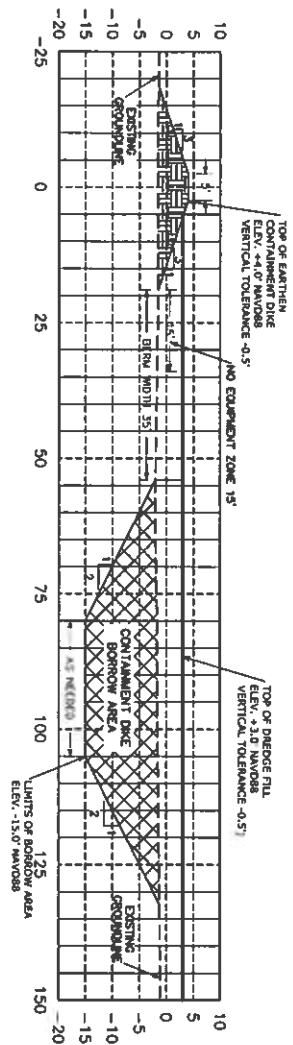
United States  
Department of  
Agriculture

Natural Resources  
Conservation Service

PROFILE EARTHEN CONTAINMENT DIKE (CELL 3)  
STA. 200+00 to STA. 210+07  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

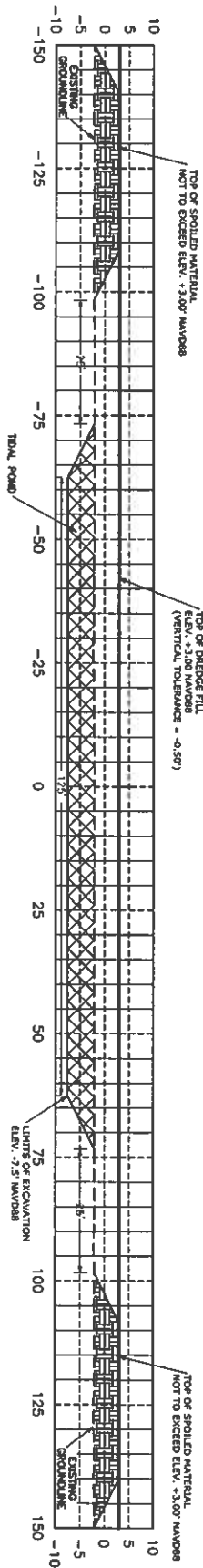
| DESIGNED | N. MCCOY     | DATE | 07/21 |
|----------|--------------|------|-------|
| DRAWN    | A. CREMILLON | DATE | 07/21 |
| CHECKED  | B. SAMSON    | DATE | 07/21 |
| APPROVED |              |      |       |



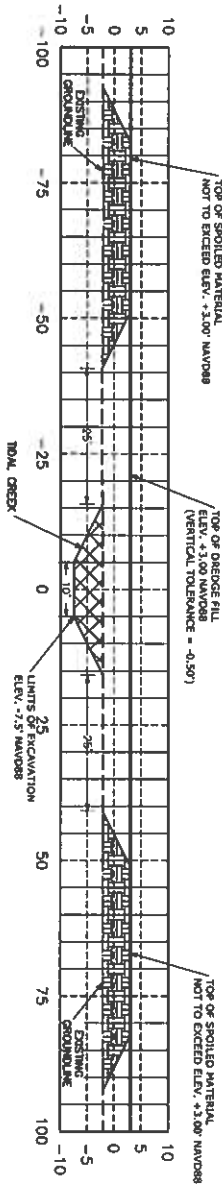


TYPICAL CROSS SECTION - EARTHEN CONTAINMENT DIKE

NOTE:  
TIDAL PONDS SHALL BE RECTANGLE IN SHAPE WITH DIMENSIONS OF  
350' x 125'. EACH POND SHALL BE ABOUT 1 ACRE IN SURFACE AREA.



TYPICAL CROSS SECTION - TIDAL POND



TYPICAL CROSS SECTION - TIDAL CREEK

PRELIMINARY  
FOR  
REVIEW ONLY

| REVISIONS | DATE     | BY  | CHKD |
|-----------|----------|-----|------|
| 1         | 07/21/20 | AMC | AMC  |
| 2         | 07/21/20 | AMC | AMC  |

FILE NAME  
LA-380-13  
DRAWING NAME  
LA-380-13  
SHEET 13 of 32

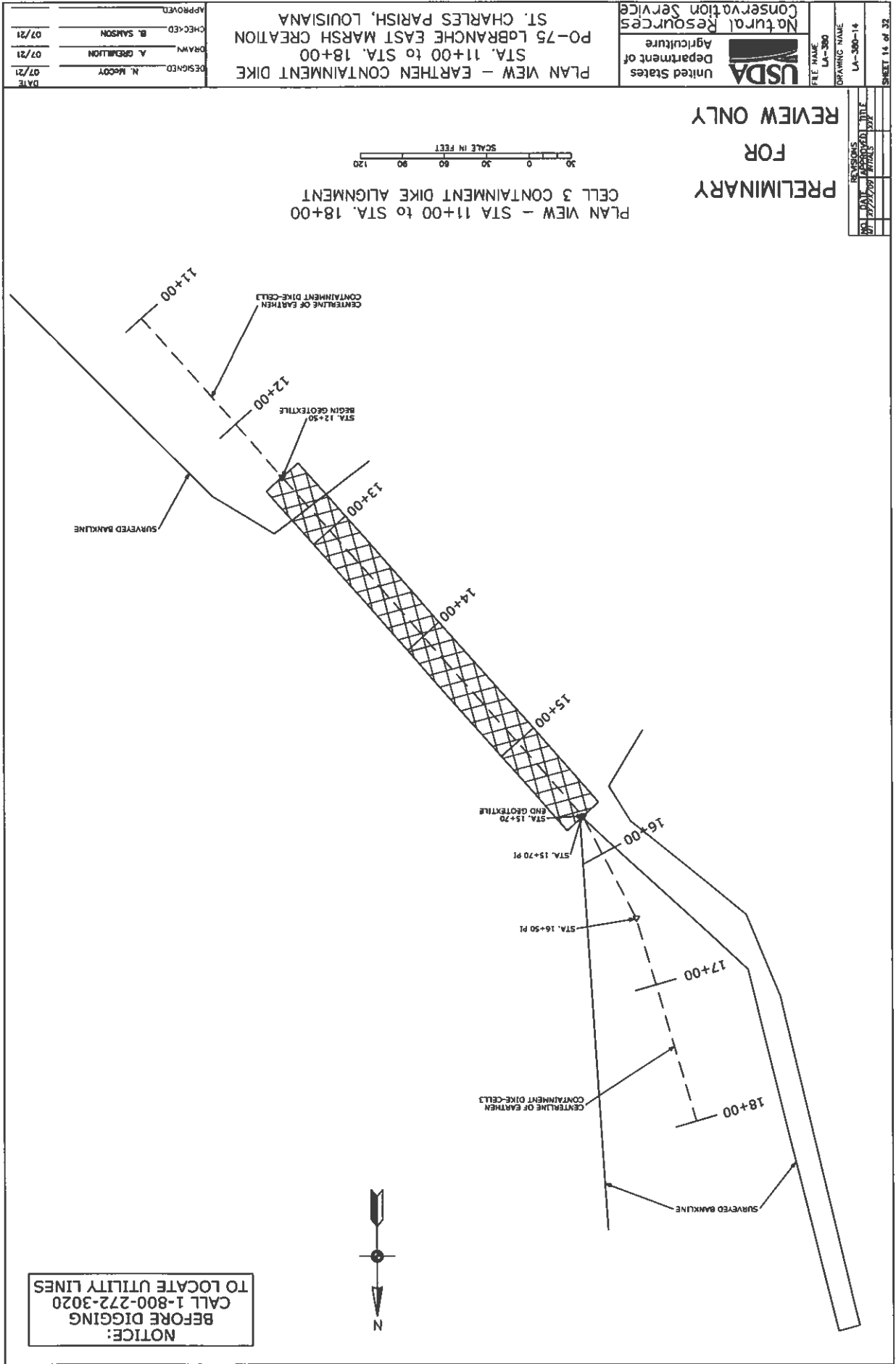


United States  
Department of  
Agriculture

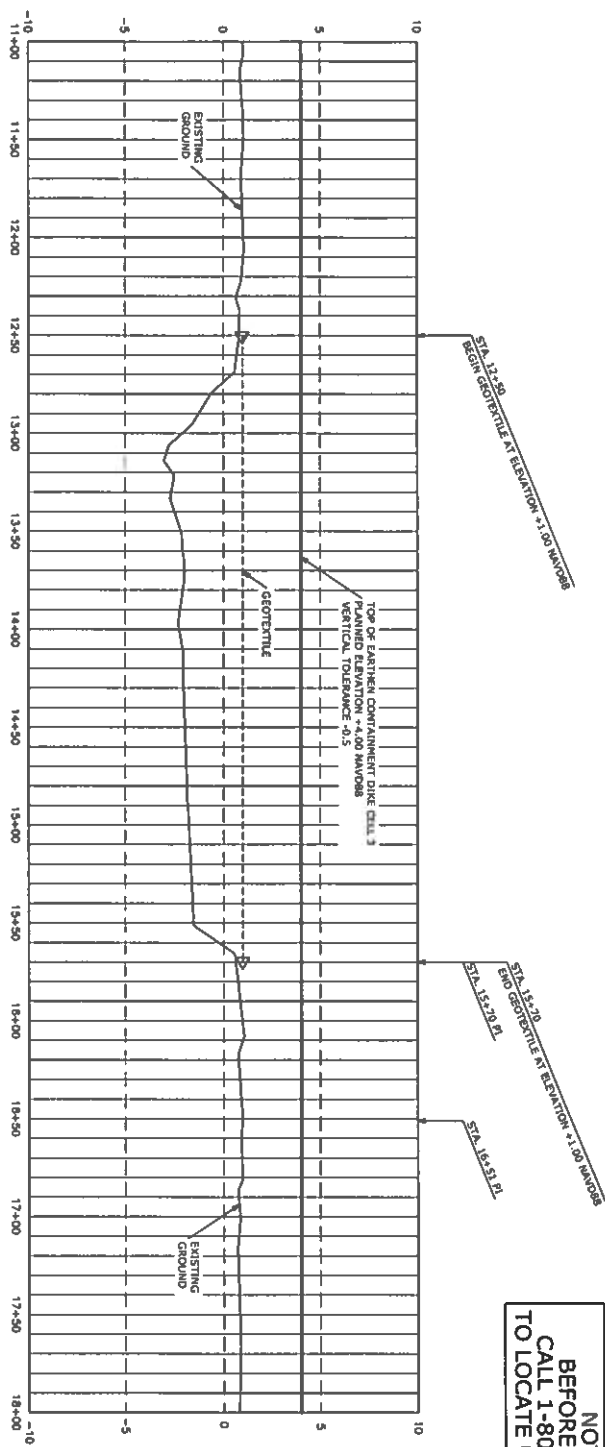
Natural Resources  
Conservation Service

TYPICAL SECTIONS  
CONTAINMENT DIKE, TIDAL POND, & TIDAL CREEK  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

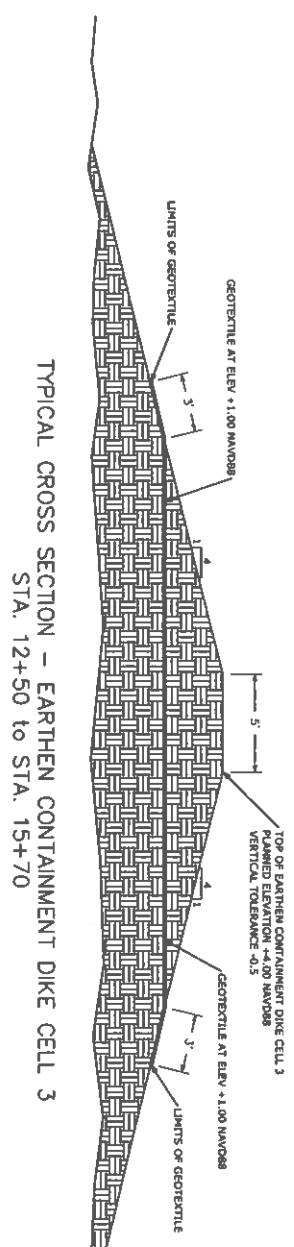
| DATE  | SIGNED         | BY    |
|-------|----------------|-------|
| 07/21 | N. MCCOY       | 07/21 |
| 07/21 | A. GREGGILLION | 07/21 |
| 07/21 | B. SAMSON      | 07/21 |
|       | APPROVED       |       |



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 TO LOCATE UTILITY LINES



PROFILE ON CENTERLINE CELL 3 - STA. 11+00 to STA. 18+00  
 CELL 3 EARTHEN CONTAINMENT DIKE ALIGNMENT



TYPICAL CROSS SECTION - EARTHEN CONTAINMENT DIKE CELL 3  
 STA. 12+50 to STA. 15+70

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 FOR

**USDA** United States Department of Agriculture  
 Natural Resources Conservation Service

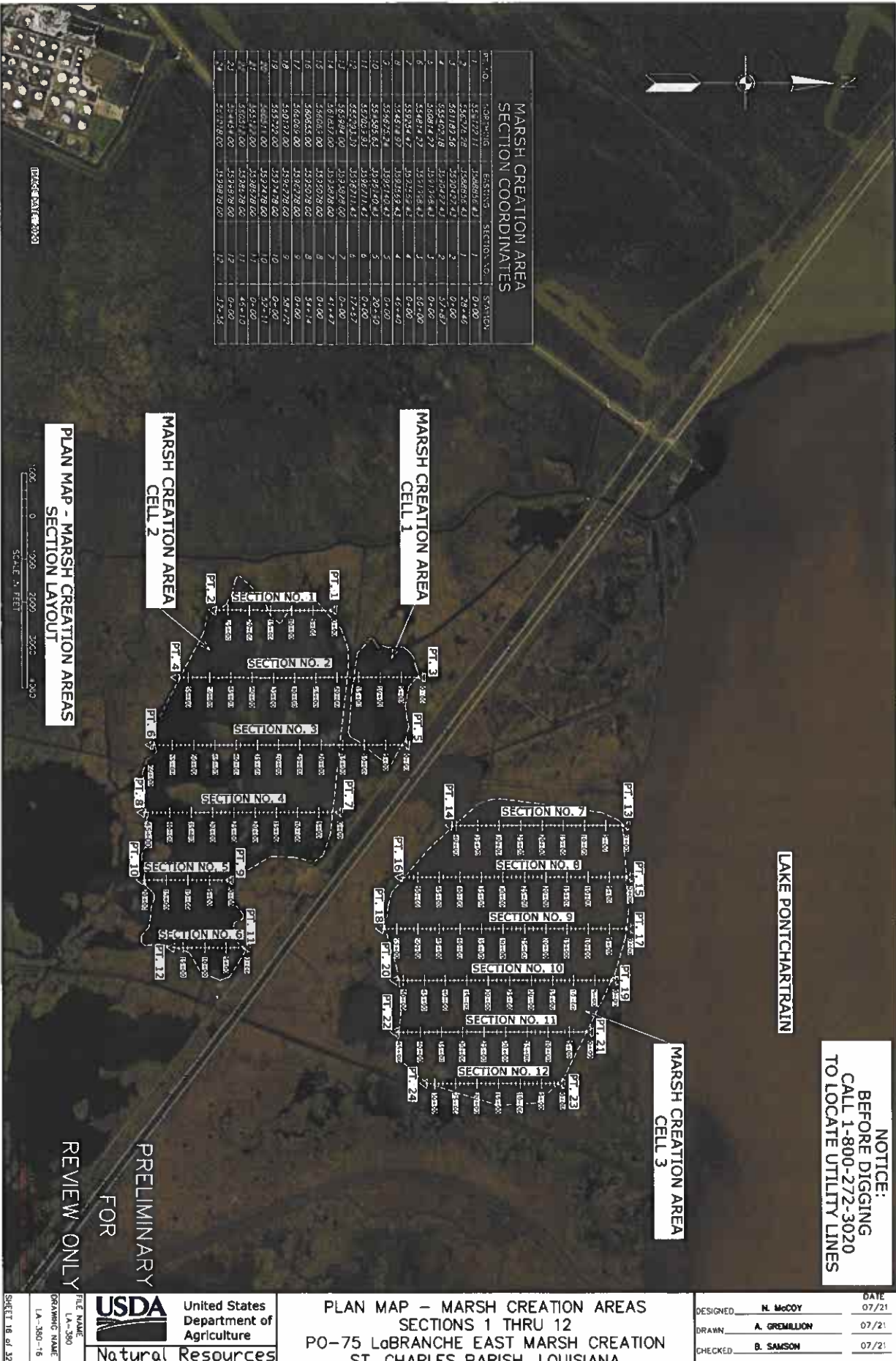
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 DRAWING NAME: LA-380-15

REVISIONS  
 01 07/22/2015 [Signature] 01  
 02 07/22/2015 [Signature] 01

SHEET 19 OF 32

|                                                                                                                                                 |  |  |          |             |      |       |
|-------------------------------------------------------------------------------------------------------------------------------------------------|--|--|----------|-------------|------|-------|
| CENTERLINE PROFILE-EARTHEN CONTAINMENT DIKE<br>STA. 11+00 to STA. 18+00<br>PO-75 LaBRANCHE EAST MARSH CREATION<br>ST. CHARLES PARISH, LOUISIANA |  |  | DESIGNED | N. McODY    | DATE | 07/21 |
|                                                                                                                                                 |  |  | DRAWN    | A. GREMLION |      | 07/21 |
|                                                                                                                                                 |  |  | CHECKED  | B. SAMSON   |      | 07/21 |
|                                                                                                                                                 |  |  | APPROVED |             |      |       |

| MARSH CREATION AREA<br>SECTION COORDINATES |           |            |             |       |
|--------------------------------------------|-----------|------------|-------------|-------|
| PT. NO.                                    | NORTHING  | EASTING    | SECTION NO. | SLOPE |
| 1                                          | 558729.11 | 1268056.43 | 1           | 0+00  |
| 2                                          | 558729.28 | 1268056.43 | 1           | 26+46 |
| 3                                          | 558718.36 | 1268029.42 | 2           | 0+00  |
| 4                                          | 558705.18 | 1268029.42 | 2           | 5+63  |
| 5                                          | 558691.77 | 1268056.43 | 3           | 0+00  |
| 6                                          | 558674.77 | 1268056.43 | 3           | 0+00  |
| 7                                          | 558657.92 | 1268056.43 | 4           | 0+00  |
| 8                                          | 558643.92 | 1268056.43 | 4           | 46+00 |
| 9                                          | 558629.74 | 1268056.43 | 5           | 0+00  |
| 10                                         | 558616.61 | 1268056.43 | 5           | 20+10 |
| 11                                         | 558603.91 | 1268056.43 | 6           | 0+00  |
| 12                                         | 558592.39 | 1268056.43 | 6           | 17+57 |
| 13                                         | 558579.40 | 1268029.42 | 7           | 0+00  |
| 14                                         | 558566.30 | 1268029.42 | 7           | 41+47 |
| 15                                         | 558553.00 | 1268029.42 | 8           | 0+00  |
| 16                                         | 558539.00 | 1268029.42 | 8           | 54+14 |
| 17                                         | 558525.00 | 1268029.42 | 9           | 0+00  |
| 18                                         | 558511.00 | 1268029.42 | 9           | 58+72 |
| 19                                         | 558497.00 | 1268029.42 | 10          | 0+00  |
| 20                                         | 558483.00 | 1268029.42 | 10          | 52+11 |
| 21                                         | 558469.00 | 1268029.42 | 11          | 0+00  |
| 22                                         | 558455.00 | 1268029.42 | 11          | 46+10 |
| 23                                         | 558441.00 | 1268029.42 | 12          | 0+00  |
| 24                                         | 558427.00 | 1268029.42 | 12          | 34+36 |



PLAN MAP - MARSH CREATION AREAS  
SECTION LAYOUT

0 100 200 300  
SCALE IN FEET

LAKE PONTCHARTRAIN

NOTICE:  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES

MARSH CREATION AREA  
CELL 3

MARSH CREATION AREA  
CELL 2

MARSH CREATION AREA  
CELL 1

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Agriculture

Natural Resources  
Conservation Service

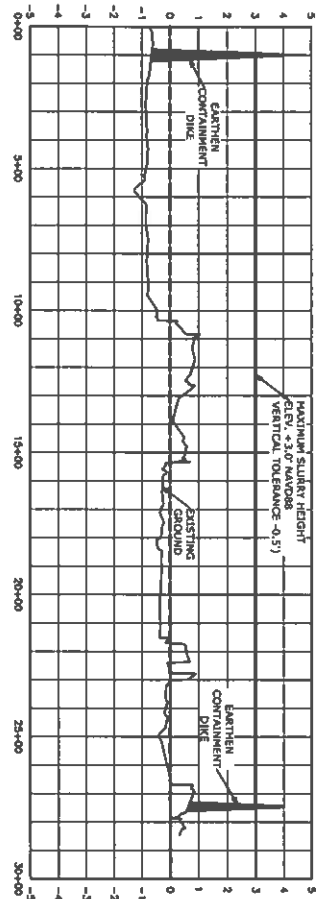
FILE NAME  
LA-360

DRAWING NAME  
LA-360-16

SHEET 16 of 32

PLAN MAP - MARSH CREATION AREAS  
SECTIONS 1 THRU 12  
PO-75 LOBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

|          |               |      |       |
|----------|---------------|------|-------|
| DESIGNED | N. MCCOY      | DATE | 07/21 |
| DRAWN    | A. GREMILLION |      | 07/21 |
| CHECKED  | B. SAMSON     |      | 07/21 |
| APPROVED |               |      |       |

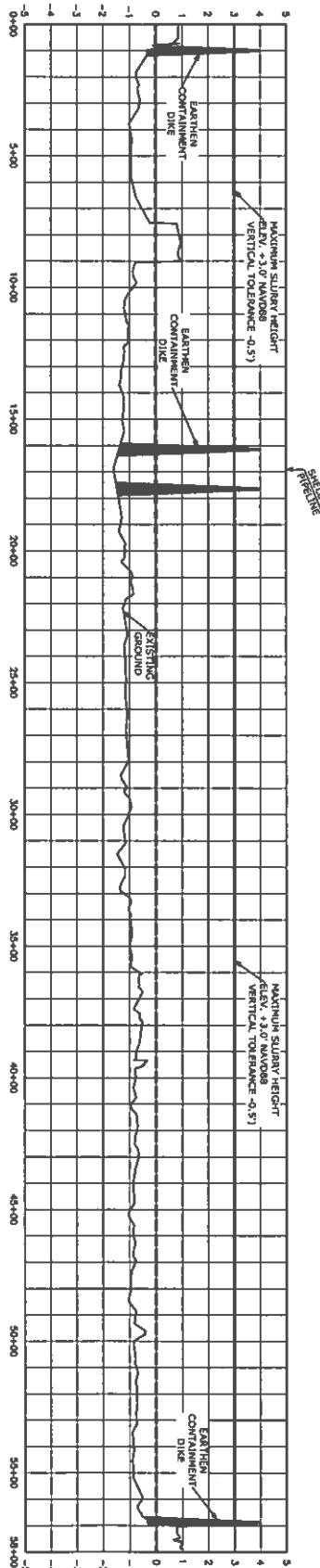


SECTION NO. 1

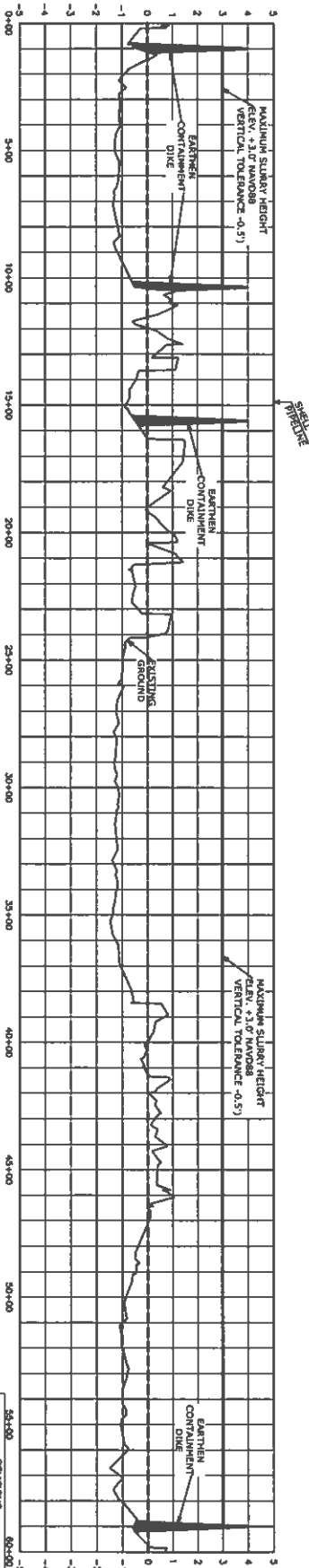
NOTICE:  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES

PRELIMINARY  
FOR  
REVIEW ONLY

|          |               |      |       |
|----------|---------------|------|-------|
| DESIGNED | N. MCCOY      | DATE | 07/21 |
| DRAWN    | A. CREMILLION |      | 07/21 |
| CHECKED  | B. SAMSON     |      | 07/21 |
| APPROVED |               |      |       |



SECTION NO. 2



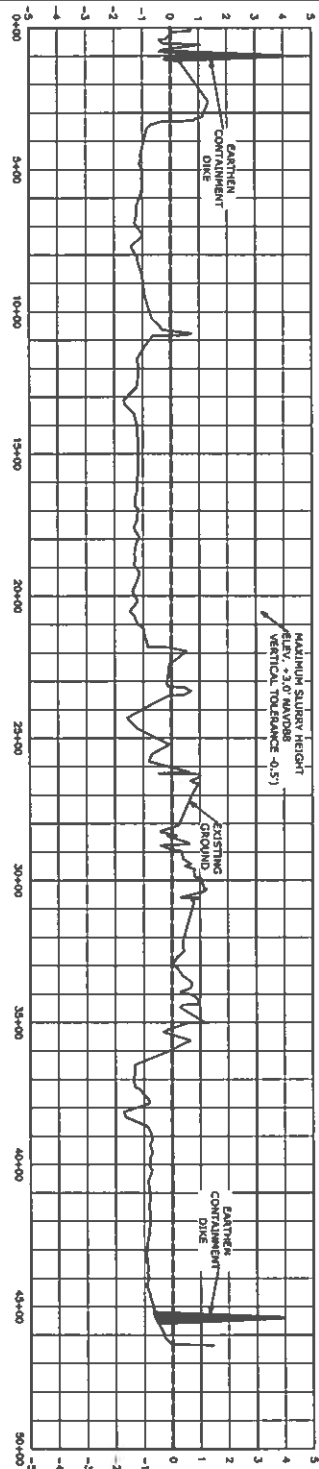
SECTION NO. 3

|              |           |       |
|--------------|-----------|-------|
| NO. 17 OF 32 | REVISIONS | DATE  |
| 1            | LA-380-17 | 07/21 |



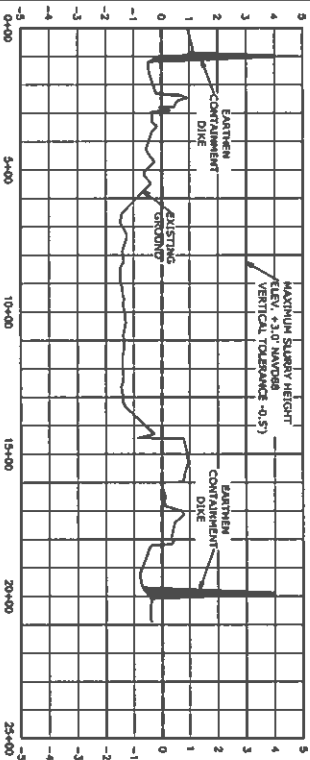
MARSH CREATION SECTIONS—CELLS 1 & 2  
SECTIONS 1, 2 AND 3  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA



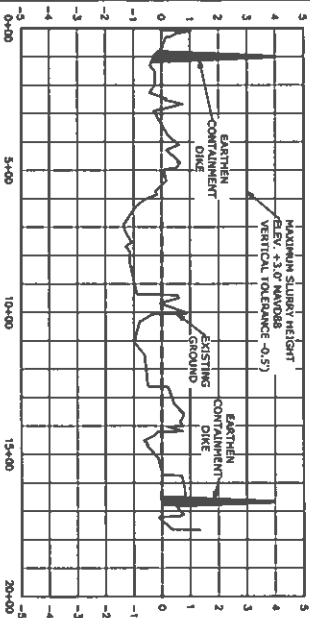


SECTION NO. 4

NOTICE:  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES



SECTION NO. 5



SECTION NO. 6

| REVISIONS | DATE  | BY | CHKD |
|-----------|-------|----|------|
| 1         | 07/21 | AM | AM   |
| 2         | 07/21 | AM | AM   |

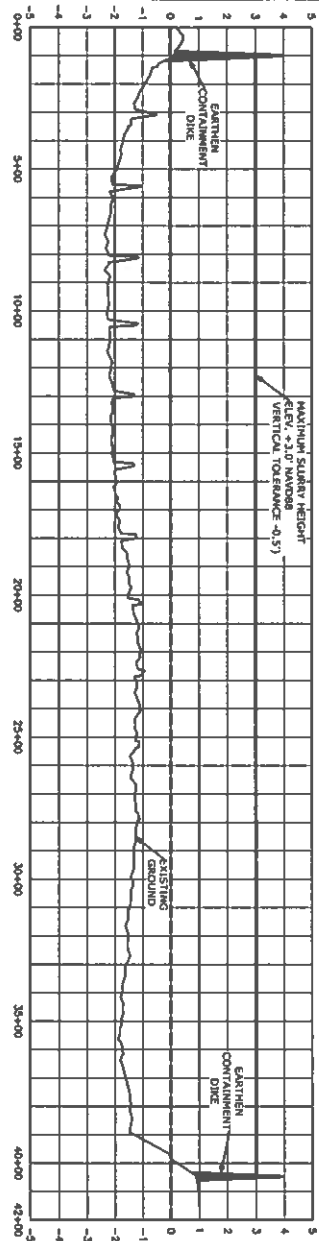
PRELIMINARY  
FOR  
REVIEW ONLY

FILE NAME  
LA-380  
DRAWING NAME  
LA-380-18  
SHEET 18 of 32



MARSH CREATION SECTIONS - CELL 2  
SECTIONS 4, 5 AND 6  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

| DESIGNED | N. MCCOY     | DATE | 07/21 |
|----------|--------------|------|-------|
| DRAWN    | A. GREMILLON | DATE | 07/21 |
| CHECKED  | B. SAMSON    | DATE | 07/21 |
| APPROVED |              |      |       |

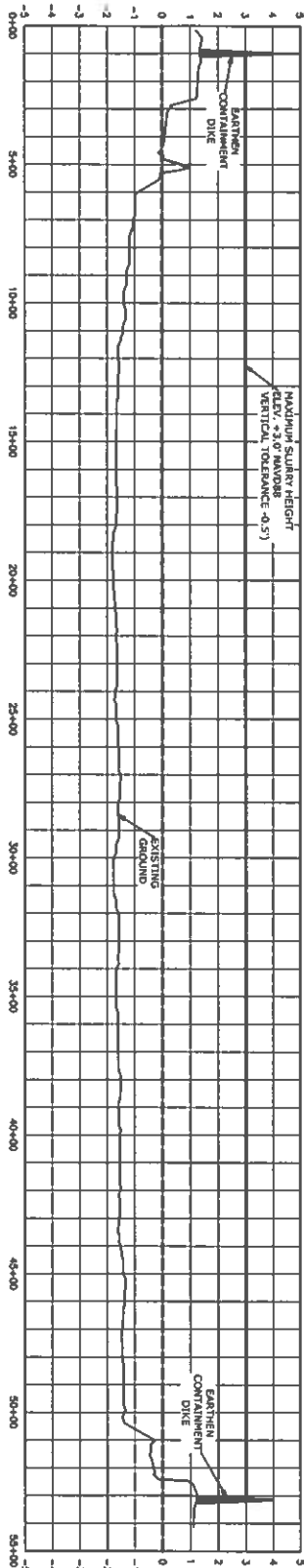


SECTION NO. 7

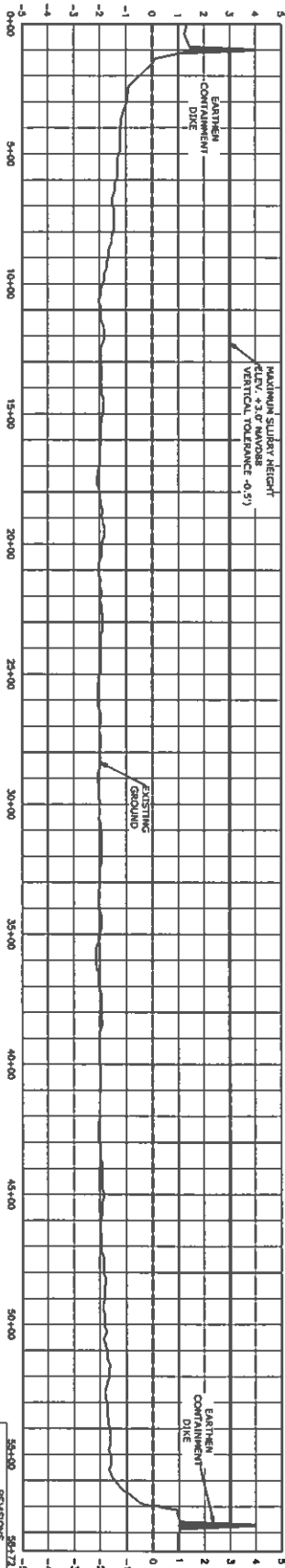
NOTICE:  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES

PRELIMINARY  
FOR  
REVIEW ONLY

|          |              |      |       |
|----------|--------------|------|-------|
| DESIGNED | N. McCOY     | DATE | 07/21 |
| DRAWN    | A. GREMILLON |      | 07/21 |
| CHECKED  | B. SAMSON    |      | 07/21 |
| APPROVED |              |      |       |



SECTION NO. 8



SECTION NO. 9

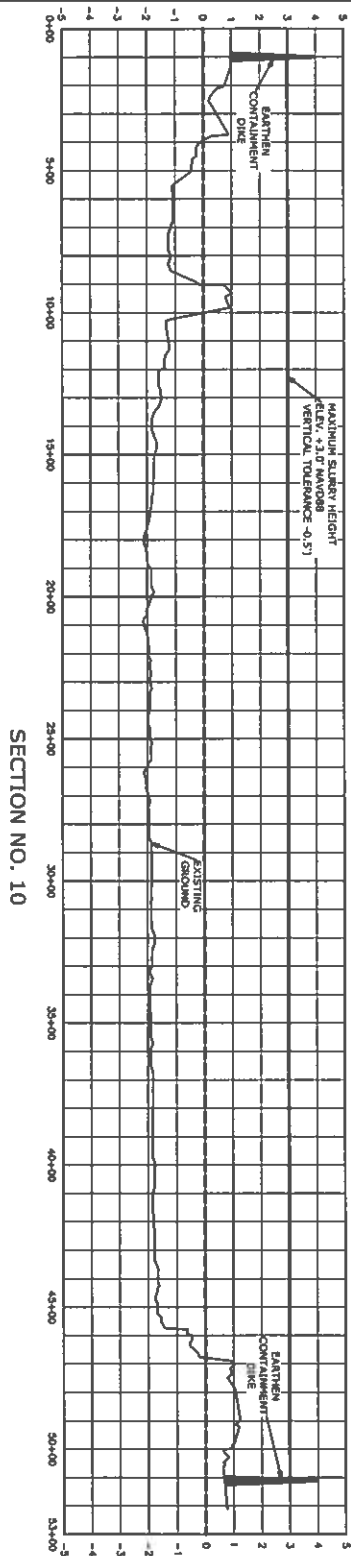
| NO. | DATE       | REVISIONS         |
|-----|------------|-------------------|
| 1   | 07/20/2011 | APPROVED FOR PLOT |
| 2   | 07/20/2011 | REVISED           |

SHEET 19 OF 32

FILE NAME  
LA-580  
DRAWING NAME  
LA-580 19

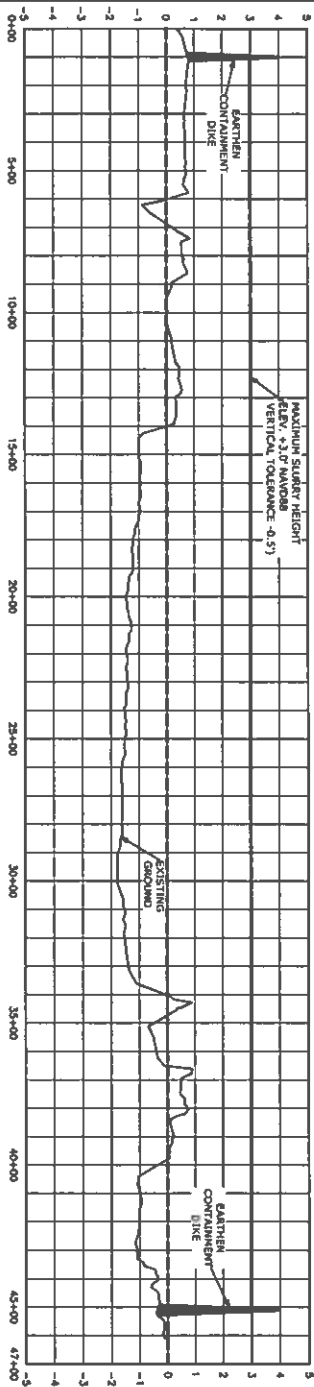


MARSH CREATION SECTIONS - CELL 3  
SECTIONS 7, 8 AND 9  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

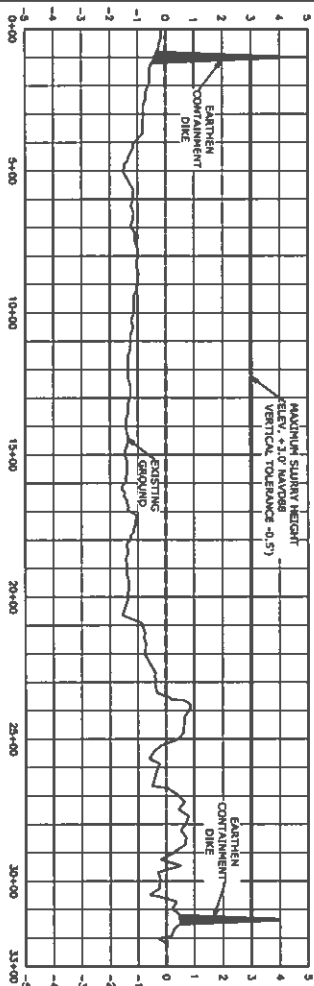


SECTION NO. 10

NOTICE:  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES



SECTION NO. 11



SECTION NO. 12

| REVISIONS | DATE     | BY | APP'D |
|-----------|----------|----|-------|
| 1         | 07/21/07 | AM | AM    |
| 2         | 07/21/07 | AM | AM    |

PRELIMINARY  
FOR  
REVIEW ONLY

FILE NAME  
LA-380-20  
DRAWING NAME  
LA-380-20



United States  
Department of  
Agriculture

Natural Resources  
Conservation Service

MARSH CREATION SECTIONS - CELL3  
SECTIONS 10, 11 AND 12  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

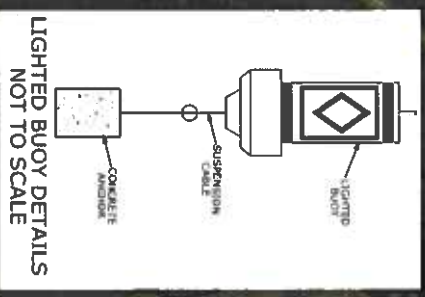
| DESIGNED | N. MCCOY     | DATE | 07/21 |
|----------|--------------|------|-------|
| DRAWN    | A. CREMILLON | DATE | 07/21 |
| CHECKED  | B. SAMSON    | DATE | 07/21 |
| APPROVED |              | DATE |       |



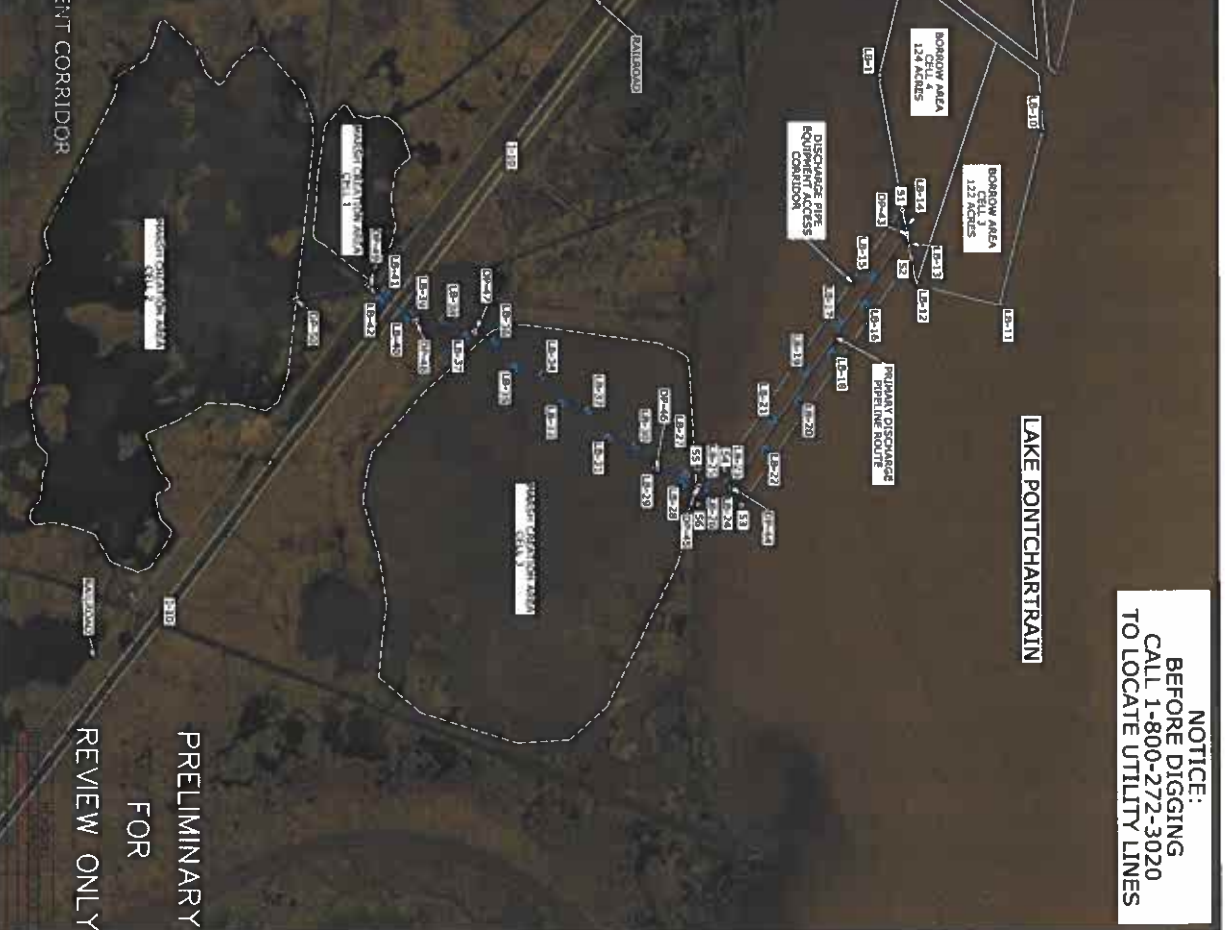
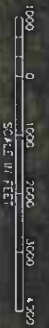


| LIGHTED BUOY COORDINATES |           |
|--------------------------|-----------|
| BUOY NO.                 | EASTING   |
| LB-1                     | 565148.12 |
| LB-2                     | 565148.34 |
| LB-3                     | 565148.56 |
| LB-4                     | 565148.78 |
| LB-5                     | 565149.00 |
| LB-6                     | 565149.22 |
| LB-7                     | 565149.44 |
| LB-8                     | 565149.66 |
| LB-9                     | 565149.88 |
| LB-10                    | 565150.10 |
| LB-11                    | 565150.32 |
| LB-12                    | 565150.54 |
| LB-13                    | 565150.76 |
| LB-14                    | 565150.98 |
| LB-15                    | 565151.20 |
| LB-16                    | 565151.42 |
| LB-17                    | 565151.64 |
| LB-18                    | 565151.86 |
| LB-19                    | 565152.08 |
| LB-20                    | 565152.30 |
| LB-21                    | 565152.52 |
| LB-22                    | 565152.74 |
| LB-23                    | 565152.96 |
| LB-24                    | 565153.18 |
| LB-25                    | 565153.40 |
| LB-26                    | 565153.62 |
| LB-27                    | 565153.84 |
| LB-28                    | 565154.06 |
| LB-29                    | 565154.28 |
| LB-30                    | 565154.50 |
| LB-31                    | 565154.72 |
| LB-32                    | 565154.94 |
| LB-33                    | 565155.16 |
| LB-34                    | 565155.38 |
| LB-35                    | 565155.60 |
| LB-36                    | 565155.82 |
| LB-37                    | 565156.04 |
| LB-38                    | 565156.26 |
| LB-39                    | 565156.48 |
| LB-40                    | 565156.70 |
| LB-41                    | 565156.92 |
| LB-42                    | 565157.14 |
| LB-43                    | 565157.36 |
| LB-44                    | 565157.58 |
| LB-45                    | 565157.80 |
| LB-46                    | 565158.02 |
| LB-47                    | 565158.24 |
| LB-48                    | 565158.46 |
| LB-49                    | 565158.68 |
| LB-50                    | 565158.90 |
| LB-51                    | 565159.12 |
| LB-52                    | 565159.34 |
| LB-53                    | 565159.56 |
| LB-54                    | 565159.78 |
| LB-55                    | 565160.00 |
| LB-56                    | 565160.22 |
| LB-57                    | 565160.44 |
| LB-58                    | 565160.66 |
| LB-59                    | 565160.88 |
| LB-60                    | 565161.10 |
| LB-61                    | 565161.32 |
| LB-62                    | 565161.54 |
| LB-63                    | 565161.76 |
| LB-64                    | 565161.98 |
| LB-65                    | 565162.20 |
| LB-66                    | 565162.42 |
| LB-67                    | 565162.64 |
| LB-68                    | 565162.86 |
| LB-69                    | 565163.08 |
| LB-70                    | 565163.30 |
| LB-71                    | 565163.52 |
| LB-72                    | 565163.74 |
| LB-73                    | 565163.96 |
| LB-74                    | 565164.18 |
| LB-75                    | 565164.40 |
| LB-76                    | 565164.62 |
| LB-77                    | 565164.84 |
| LB-78                    | 565165.06 |
| LB-79                    | 565165.28 |
| LB-80                    | 565165.50 |
| LB-81                    | 565165.72 |
| LB-82                    | 565165.94 |
| LB-83                    | 565166.16 |
| LB-84                    | 565166.38 |
| LB-85                    | 565166.60 |
| LB-86                    | 565166.82 |
| LB-87                    | 565167.04 |
| LB-88                    | 565167.26 |
| LB-89                    | 565167.48 |
| LB-90                    | 565167.70 |
| LB-91                    | 565167.92 |
| LB-92                    | 565168.14 |
| LB-93                    | 565168.36 |
| LB-94                    | 565168.58 |
| LB-95                    | 565168.80 |
| LB-96                    | 565169.02 |
| LB-97                    | 565169.24 |
| LB-98                    | 565169.46 |
| LB-99                    | 565169.68 |
| LB-100                   | 565169.90 |

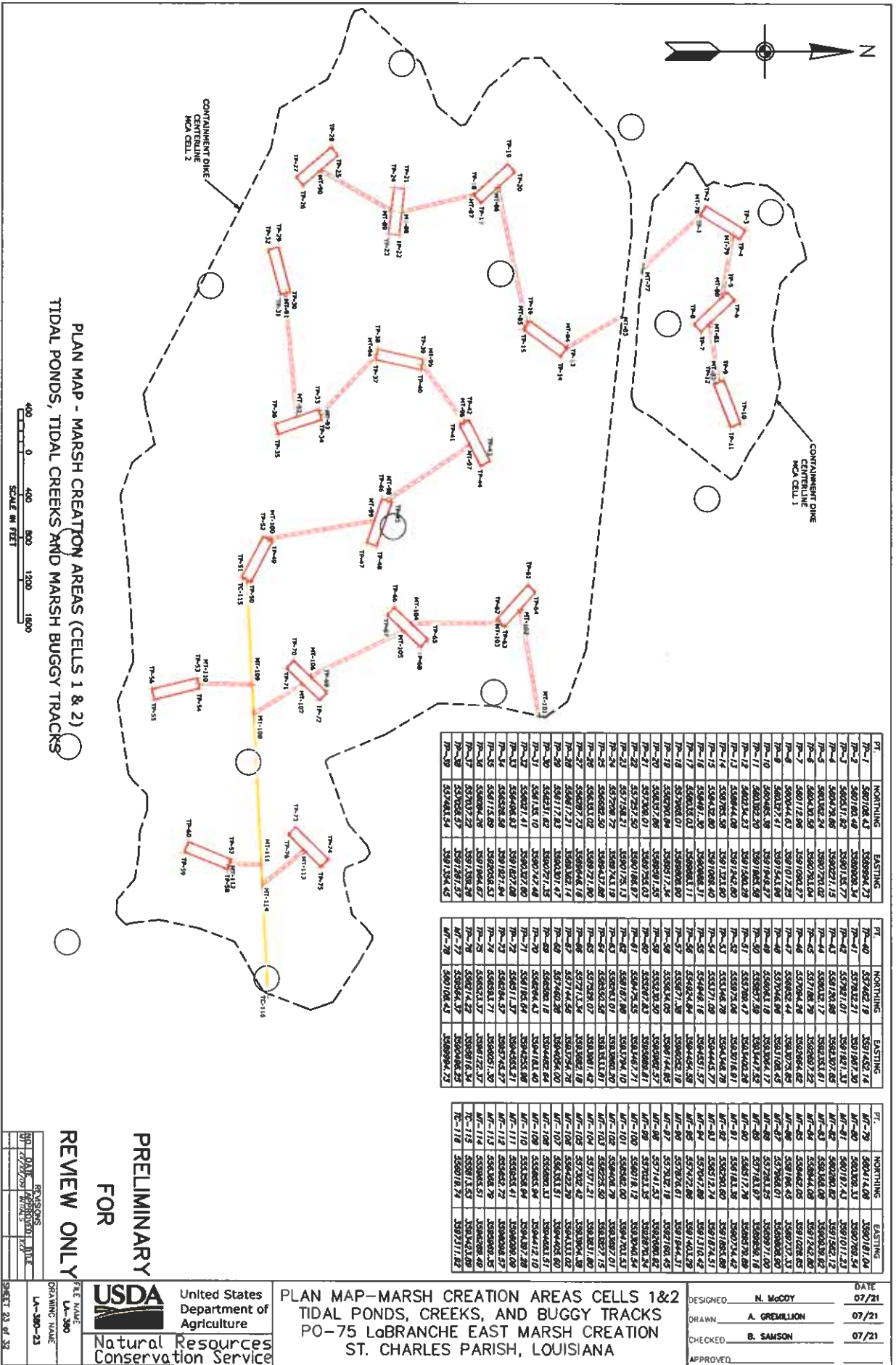
| DISCHARGE PIPE EQUIPMENT ACCESS CORRIDOR COORDINATES |           |
|------------------------------------------------------|-----------|
| PT. NO.                                              | EASTING   |
| DP-1                                                 | 565148.12 |
| DP-2                                                 | 565148.34 |
| DP-3                                                 | 565148.56 |
| DP-4                                                 | 565148.78 |
| DP-5                                                 | 565149.00 |
| DP-6                                                 | 565149.22 |
| DP-7                                                 | 565149.44 |
| DP-8                                                 | 565149.66 |
| DP-9                                                 | 565149.88 |
| DP-10                                                | 565150.10 |
| DP-11                                                | 565150.32 |
| DP-12                                                | 565150.54 |
| DP-13                                                | 565150.76 |
| DP-14                                                | 565150.98 |
| DP-15                                                | 565151.20 |
| DP-16                                                | 565151.42 |
| DP-17                                                | 565151.64 |
| DP-18                                                | 565151.86 |
| DP-19                                                | 565152.08 |
| DP-20                                                | 565152.30 |
| DP-21                                                | 565152.52 |
| DP-22                                                | 565152.74 |
| DP-23                                                | 565152.96 |
| DP-24                                                | 565153.18 |
| DP-25                                                | 565153.40 |
| DP-26                                                | 565153.62 |
| DP-27                                                | 565153.84 |
| DP-28                                                | 565154.06 |
| DP-29                                                | 565154.28 |
| DP-30                                                | 565154.50 |
| DP-31                                                | 565154.72 |
| DP-32                                                | 565154.94 |
| DP-33                                                | 565155.16 |
| DP-34                                                | 565155.38 |
| DP-35                                                | 565155.60 |
| DP-36                                                | 565155.82 |
| DP-37                                                | 565156.04 |
| DP-38                                                | 565156.26 |
| DP-39                                                | 565156.48 |
| DP-40                                                | 565156.70 |
| DP-41                                                | 565156.92 |
| DP-42                                                | 565157.14 |
| DP-43                                                | 565157.36 |
| DP-44                                                | 565157.58 |
| DP-45                                                | 565157.80 |
| DP-46                                                | 565158.02 |
| DP-47                                                | 565158.24 |
| DP-48                                                | 565158.46 |
| DP-49                                                | 565158.68 |
| DP-50                                                | 565158.90 |
| DP-51                                                | 565159.12 |
| DP-52                                                | 565159.34 |
| DP-53                                                | 565159.56 |
| DP-54                                                | 565159.78 |
| DP-55                                                | 565160.00 |
| DP-56                                                | 565160.22 |
| DP-57                                                | 565160.44 |
| DP-58                                                | 565160.66 |
| DP-59                                                | 565160.88 |
| DP-60                                                | 565161.10 |
| DP-61                                                | 565161.32 |
| DP-62                                                | 565161.54 |
| DP-63                                                | 565161.76 |
| DP-64                                                | 565161.98 |
| DP-65                                                | 565162.20 |
| DP-66                                                | 565162.42 |
| DP-67                                                | 565162.64 |
| DP-68                                                | 565162.86 |
| DP-69                                                | 565163.08 |
| DP-70                                                | 565163.30 |
| DP-71                                                | 565163.52 |
| DP-72                                                | 565163.74 |
| DP-73                                                | 565163.96 |
| DP-74                                                | 565164.18 |
| DP-75                                                | 565164.40 |
| DP-76                                                | 565164.62 |
| DP-77                                                | 565164.84 |
| DP-78                                                | 565165.06 |
| DP-79                                                | 565165.28 |
| DP-80                                                | 565165.50 |
| DP-81                                                | 565165.72 |
| DP-82                                                | 565165.94 |
| DP-83                                                | 565166.16 |
| DP-84                                                | 565166.38 |
| DP-85                                                | 565166.60 |
| DP-86                                                | 565166.82 |
| DP-87                                                | 565167.04 |
| DP-88                                                | 565167.26 |
| DP-89                                                | 565167.48 |
| DP-90                                                | 565167.70 |
| DP-91                                                | 565167.92 |
| DP-92                                                | 565168.14 |
| DP-93                                                | 565168.36 |
| DP-94                                                | 565168.58 |
| DP-95                                                | 565168.80 |
| DP-96                                                | 565169.02 |
| DP-97                                                | 565169.24 |
| DP-98                                                | 565169.46 |
| DP-99                                                | 565169.68 |
| DP-100                                               | 565169.90 |



PLAN MAP - LIGHTED BUOYS, DISCHARGE PIPE & EQUIPMENT CORRIDOR



NOTICE:  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES



PLAN MAP - MARSH CREATION AREAS (CELLS 1 & 2)  
TIDAL PONDS, TIDAL CREEKS AND MARSH BUGGY TRACKS

400 0 400 800 1200 1600  
SCALE IN FEET

| PT    | NORTHING  | EASTING    | PT    | NORTHING  | EASTING    | PT     | NORTHING  | EASTING    |
|-------|-----------|------------|-------|-----------|------------|--------|-----------|------------|
| TP-1  | 500708.43 | 3500994.73 | TP-40 | 507462.19 | 3501452.14 | MT-79  | 506114.09 | 3500181.04 |
| TP-2  | 500708.40 | 3500994.34 | TP-41 | 507462.17 | 3501452.10 | MT-80  | 506114.03 | 3500180.53 |
| TP-3  | 500511.82 | 3500155.77 | TP-42 | 507462.17 | 3501452.13 | MT-81  | 506114.03 | 3500180.53 |
| TP-4  | 500479.60 | 3500271.15 | TP-43 | 507462.16 | 3501452.05 | MT-82  | 506114.02 | 3500180.52 |
| TP-5  | 500408.24 | 3500270.02 | TP-44 | 507462.17 | 3501452.07 | MT-83  | 506114.02 | 3500180.52 |
| TP-6  | 500408.24 | 3500270.02 | TP-45 | 507462.16 | 3501452.05 | MT-84  | 506114.02 | 3500180.52 |
| TP-7  | 500408.24 | 3500270.02 | TP-46 | 507462.16 | 3501452.05 | MT-85  | 506114.02 | 3500180.52 |
| TP-8  | 500408.24 | 3500270.02 | TP-47 | 507462.16 | 3501452.05 | MT-86  | 506114.02 | 3500180.52 |
| TP-9  | 500408.24 | 3500270.02 | TP-48 | 507462.16 | 3501452.05 | MT-87  | 506114.02 | 3500180.52 |
| TP-10 | 500408.24 | 3500270.02 | TP-49 | 507462.16 | 3501452.05 | MT-88  | 506114.02 | 3500180.52 |
| TP-11 | 500408.24 | 3500270.02 | TP-50 | 507462.16 | 3501452.05 | MT-89  | 506114.02 | 3500180.52 |
| TP-12 | 500408.24 | 3500270.02 | TP-51 | 507462.16 | 3501452.05 | MT-90  | 506114.02 | 3500180.52 |
| TP-13 | 500408.24 | 3500270.02 | TP-52 | 507462.16 | 3501452.05 | MT-91  | 506114.02 | 3500180.52 |
| TP-14 | 500408.24 | 3500270.02 | TP-53 | 507462.16 | 3501452.05 | MT-92  | 506114.02 | 3500180.52 |
| TP-15 | 500408.24 | 3500270.02 | TP-54 | 507462.16 | 3501452.05 | MT-93  | 506114.02 | 3500180.52 |
| TP-16 | 500408.24 | 3500270.02 | TP-55 | 507462.16 | 3501452.05 | MT-94  | 506114.02 | 3500180.52 |
| TP-17 | 500408.24 | 3500270.02 | TP-56 | 507462.16 | 3501452.05 | MT-95  | 506114.02 | 3500180.52 |
| TP-18 | 500408.24 | 3500270.02 | TP-57 | 507462.16 | 3501452.05 | MT-96  | 506114.02 | 3500180.52 |
| TP-19 | 500408.24 | 3500270.02 | TP-58 | 507462.16 | 3501452.05 | MT-97  | 506114.02 | 3500180.52 |
| TP-20 | 500408.24 | 3500270.02 | TP-59 | 507462.16 | 3501452.05 | MT-98  | 506114.02 | 3500180.52 |
| TP-21 | 500408.24 | 3500270.02 | TP-60 | 507462.16 | 3501452.05 | MT-99  | 506114.02 | 3500180.52 |
| TP-22 | 500408.24 | 3500270.02 | TP-61 | 507462.16 | 3501452.05 | MT-100 | 506114.02 | 3500180.52 |
| TP-23 | 500408.24 | 3500270.02 | TP-62 | 507462.16 | 3501452.05 | MT-101 | 506114.02 | 3500180.52 |
| TP-24 | 500408.24 | 3500270.02 | TP-63 | 507462.16 | 3501452.05 | MT-102 | 506114.02 | 3500180.52 |
| TP-25 | 500408.24 | 3500270.02 | TP-64 | 507462.16 | 3501452.05 | MT-103 | 506114.02 | 3500180.52 |
| TP-26 | 500408.24 | 3500270.02 | TP-65 | 507462.16 | 3501452.05 | MT-104 | 506114.02 | 3500180.52 |
| TP-27 | 500408.24 | 3500270.02 | TP-66 | 507462.16 | 3501452.05 | MT-105 | 506114.02 | 3500180.52 |
| TP-28 | 500408.24 | 3500270.02 | TP-67 | 507462.16 | 3501452.05 | MT-106 | 506114.02 | 3500180.52 |
| TP-29 | 500408.24 | 3500270.02 | TP-68 | 507462.16 | 3501452.05 | MT-107 | 506114.02 | 3500180.52 |
| TP-30 | 500408.24 | 3500270.02 | TP-69 | 507462.16 | 3501452.05 | MT-108 | 506114.02 | 3500180.52 |
| TP-31 | 500408.24 | 3500270.02 | TP-70 | 507462.16 | 3501452.05 | MT-109 | 506114.02 | 3500180.52 |
| TP-32 | 500408.24 | 3500270.02 | TP-71 | 507462.16 | 3501452.05 | MT-110 | 506114.02 | 3500180.52 |
| TP-33 | 500408.24 | 3500270.02 | TP-72 | 507462.16 | 3501452.05 | MT-111 | 506114.02 | 3500180.52 |
| TP-34 | 500408.24 | 3500270.02 | TP-73 | 507462.16 | 3501452.05 | MT-112 | 506114.02 | 3500180.52 |
| TP-35 | 500408.24 | 3500270.02 | TP-74 | 507462.16 | 3501452.05 | MT-113 | 506114.02 | 3500180.52 |
| TP-36 | 500408.24 | 3500270.02 | TP-75 | 507462.16 | 3501452.05 | MT-114 | 506114.02 | 3500180.52 |
| TP-37 | 500408.24 | 3500270.02 | TP-76 | 507462.16 | 3501452.05 | MT-115 | 506114.02 | 3500180.52 |
| TP-38 | 500408.24 | 3500270.02 | TP-77 | 507462.16 | 3501452.05 | MT-116 | 506114.02 | 3500180.52 |
| TP-39 | 500408.24 | 3500270.02 | TP-78 | 507462.16 | 3501452.05 | MT-117 | 506114.02 | 3500180.52 |
| TP-40 | 500408.24 | 3500270.02 | TP-79 | 507462.16 | 3501452.05 | MT-118 | 506114.02 | 3500180.52 |

**PRELIMINARY**

**FOR**

**REVIEW ONLY**

FILE NAME: LA-360

DRAWING NAME: LA-360-23

REVISIONS:

| NO. | DATE     | DESCRIPTION  |
|-----|----------|--------------|
| 1   | 07/21/20 | APPROVED FOR |

SHEET 23 OF 33

**USDA** United States Department of Agriculture

Natural Resources Conservation Service

PLAN MAP-MARSH CREATION AREAS CELLS 1&2  
TIDAL PONDS, CREEKS, AND BUGGY TRACKS  
PO-75 LOBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

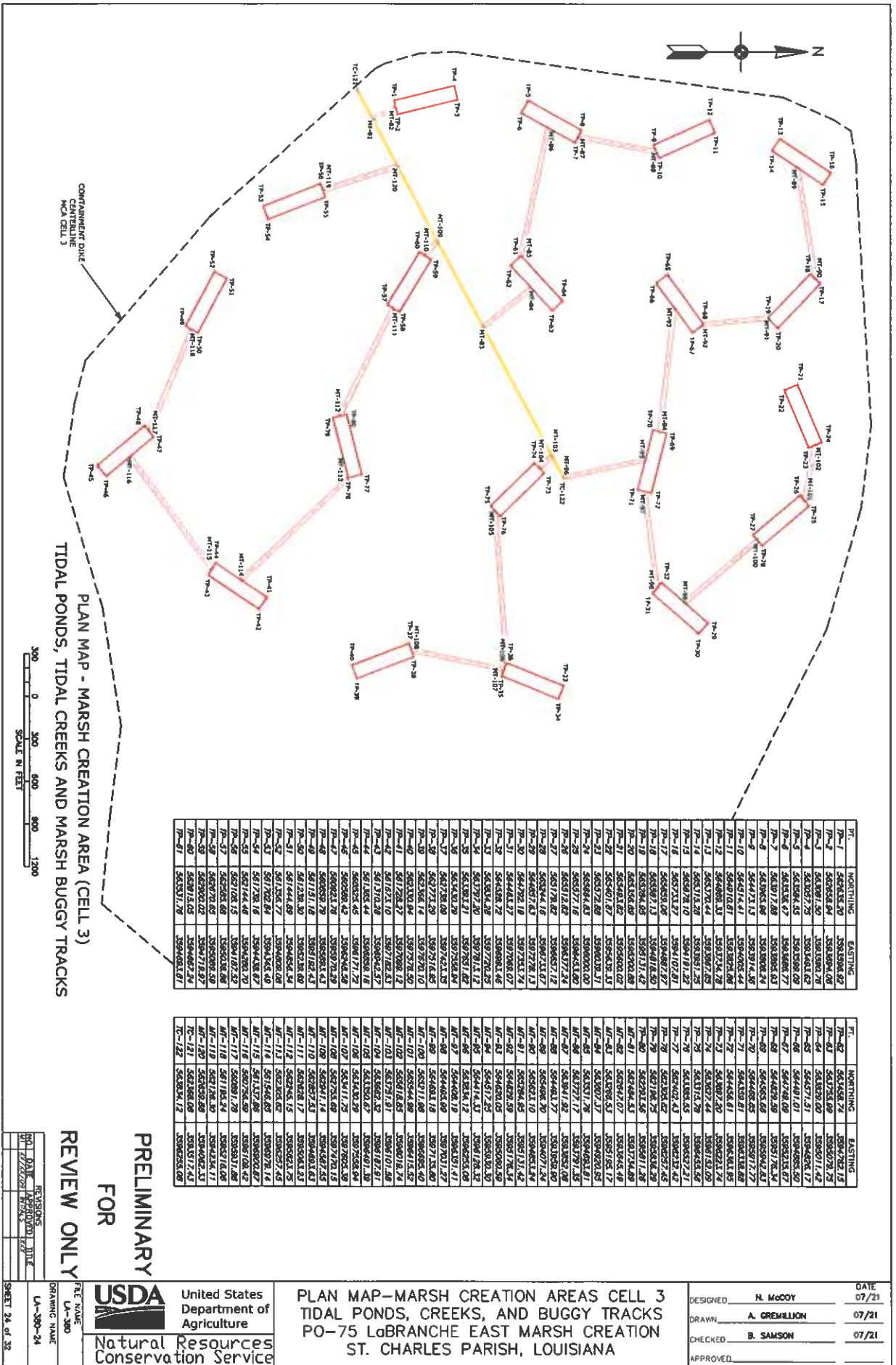
DESIGNED: N. MCODY DATE: 07/21

DRAWN: A. GREMILLION DATE: 07/21

CHECKED: B. SAMSON DATE: 07/21

APPROVED:





| NO. | DATE     | REVISIONS |
|-----|----------|-----------|
| 1   | 07/21/20 | REVISED   |
| 2   | 07/21/20 | REVISED   |

PRELIMINARY  
FOR  
REVIEW ONLY



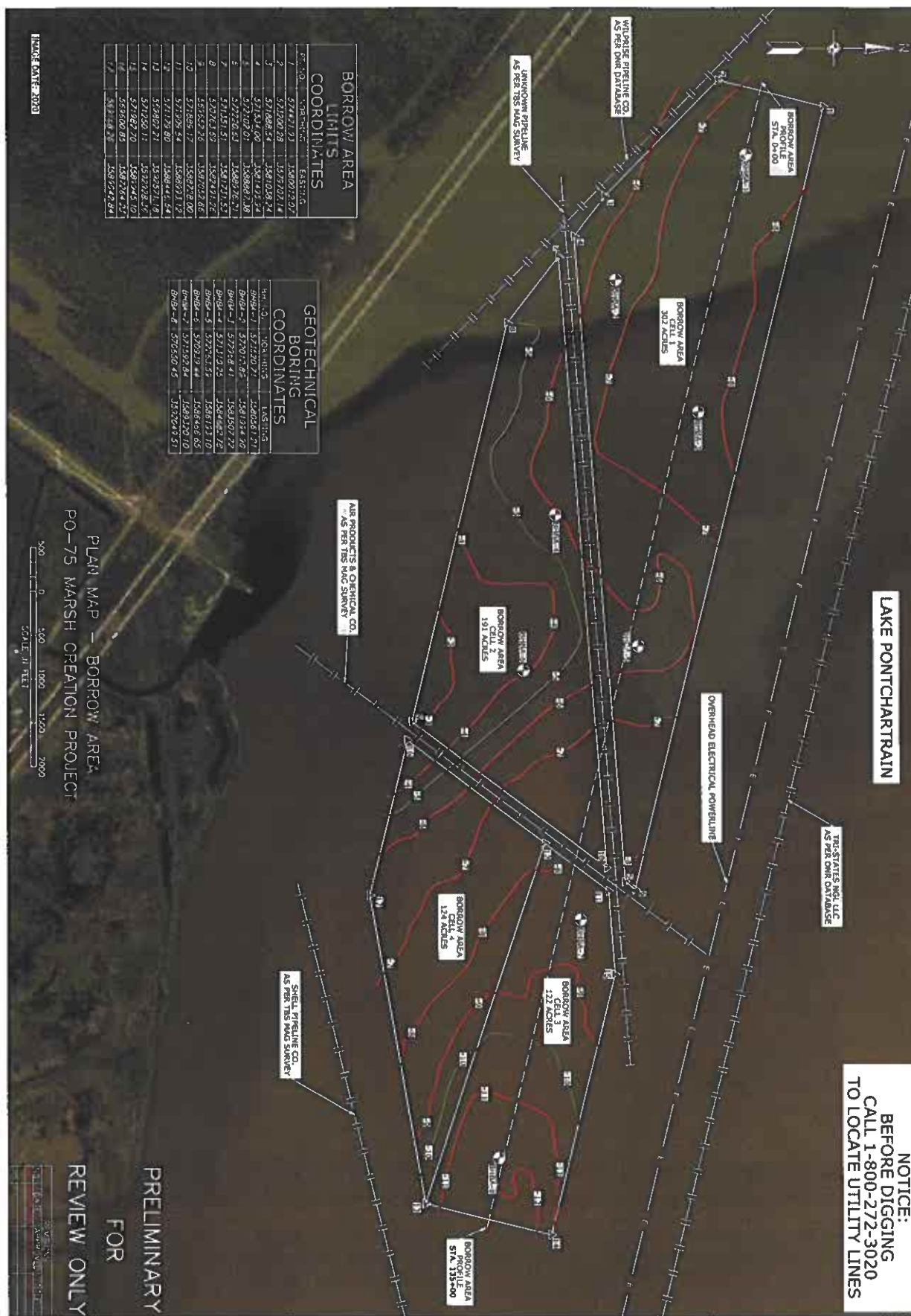
United States  
Department of  
Agriculture



Natural Resources  
Conservation Service

PLAN MAP-MARSH CREATION AREAS CELL 3  
TIDAL PONDS, CREEKS, AND BUGGY TRACKS  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

| DESIGNED | N. MOOY      | DATE | 07/21 |
|----------|--------------|------|-------|
| DRAWN    | A. GREMILLON | DATE | 07/21 |
| CHECKED  | B. SAMSON    | DATE | 07/21 |
| APPROVED |              | DATE |       |



NOTICE:  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES

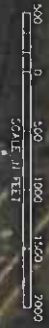
**BORROW AREA LIMITS COORDINATES**

|    |            |           |
|----|------------|-----------|
| 1  | 521,000.00 | 15,000.00 |
| 2  | 521,000.00 | 15,000.00 |
| 3  | 521,000.00 | 15,000.00 |
| 4  | 521,000.00 | 15,000.00 |
| 5  | 521,000.00 | 15,000.00 |
| 6  | 521,000.00 | 15,000.00 |
| 7  | 521,000.00 | 15,000.00 |
| 8  | 521,000.00 | 15,000.00 |
| 9  | 521,000.00 | 15,000.00 |
| 10 | 521,000.00 | 15,000.00 |
| 11 | 521,000.00 | 15,000.00 |
| 12 | 521,000.00 | 15,000.00 |
| 13 | 521,000.00 | 15,000.00 |
| 14 | 521,000.00 | 15,000.00 |
| 15 | 521,000.00 | 15,000.00 |
| 16 | 521,000.00 | 15,000.00 |
| 17 | 521,000.00 | 15,000.00 |

**GEOTECHNICAL BORING COORDINATES**

|    |            |           |
|----|------------|-----------|
| 1  | 521,000.00 | 15,000.00 |
| 2  | 521,000.00 | 15,000.00 |
| 3  | 521,000.00 | 15,000.00 |
| 4  | 521,000.00 | 15,000.00 |
| 5  | 521,000.00 | 15,000.00 |
| 6  | 521,000.00 | 15,000.00 |
| 7  | 521,000.00 | 15,000.00 |
| 8  | 521,000.00 | 15,000.00 |
| 9  | 521,000.00 | 15,000.00 |
| 10 | 521,000.00 | 15,000.00 |
| 11 | 521,000.00 | 15,000.00 |
| 12 | 521,000.00 | 15,000.00 |
| 13 | 521,000.00 | 15,000.00 |
| 14 | 521,000.00 | 15,000.00 |
| 15 | 521,000.00 | 15,000.00 |
| 16 | 521,000.00 | 15,000.00 |
| 17 | 521,000.00 | 15,000.00 |

PLAN MAP - BORROW AREA  
PO-75 MARSH CREATION PROJECT



**USDA** United States Department of Agriculture  
**Natural Resources Conservation Service**

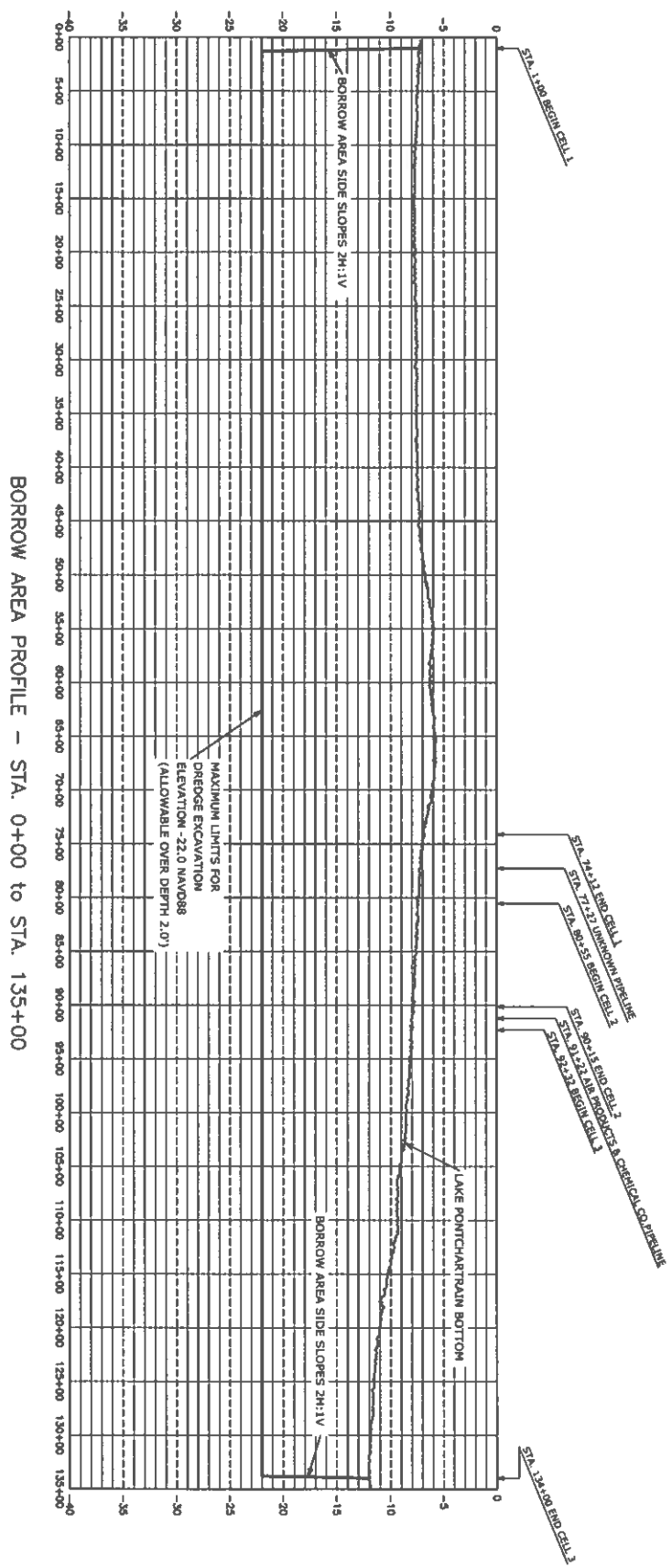
**PRELIMINARY FOR REVIEW ONLY**

FILE NAME: LA-300  
DRAWING NAME: LA-300-25  
SHEET 25 OF 32

PLAN MAP - BORROW AREA  
BORROW AREA CELLS 1, 2, 3 & 4  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

|          |               |      |       |
|----------|---------------|------|-------|
| DESIGNED | N. MOODY      | DATE | 07/21 |
| DRAWN    | A. GREMILLION | DATE | 07/21 |
| CHECKED  | B. SAMSON     | DATE | 07/21 |
| APPROVED |               |      |       |

NOTICE:  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES



BORROW AREA PROFILE - STA. 0+00 to STA. 135+00

PRELIMINARY  
FOR  
REVIEW ONLY

|                       |           |
|-----------------------|-----------|
| REVISIONS             | FILE NAME |
| BY DATE APPROVED DATE | LA-380    |
| LA-380-28             |           |
| SHEET 26 of 32        |           |

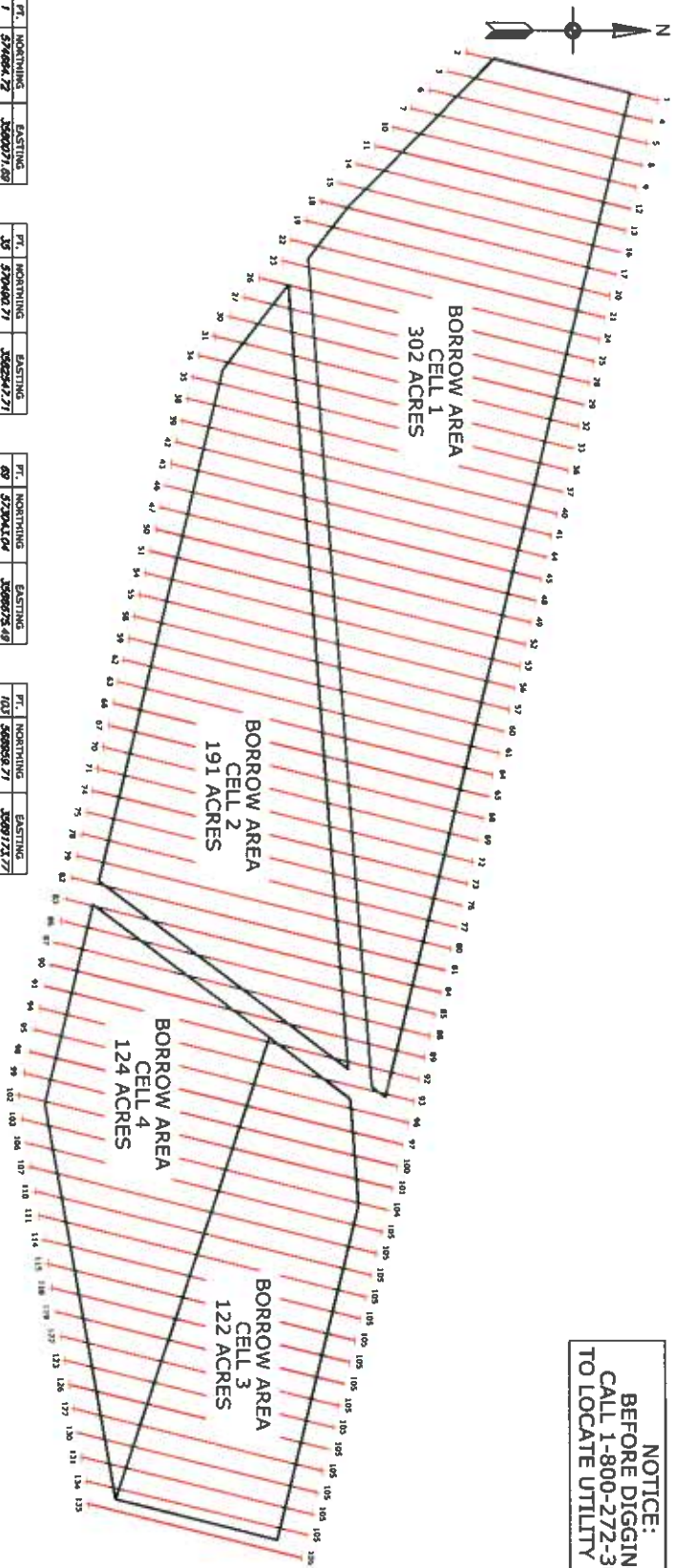


BORROW AREA PROFILE  
STA. 0+00 TO STA. 135+00  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

|          |               |      |       |
|----------|---------------|------|-------|
| DESIGNED | N. MCCOY      | DATE | 07/21 |
| DRAWN    | A. GREMILLION | DATE | 07/21 |
| CHECKED  | B. SAMSON     | DATE | 07/21 |
| APPROVED |               |      |       |



**NOTICE:**  
BEFORE DIGGING  
CALL 1-800-272-3020  
TO LOCATE UTILITY LINES



| PT. | NORTHING  | EASTING   |
|-----|-----------|-----------|
| 1   | 574084.72 | 350007.09 |
| 2   | 573965.16 | 350007.09 |
| 3   | 573965.16 | 350007.09 |
| 4   | 573965.16 | 350007.09 |
| 5   | 573965.16 | 350007.09 |
| 6   | 573965.16 | 350007.09 |
| 7   | 573965.16 | 350007.09 |
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| 10  | 573965.16 | 350007.09 |
| 11  | 573965.16 | 350007.09 |
| 12  | 573965.16 | 350007.09 |
| 13  | 573965.16 | 350007.09 |
| 14  | 573965.16 | 350007.09 |
| 15  | 573965.16 | 350007.09 |
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| 23  | 573965.16 | 350007.09 |
| 24  | 573965.16 | 350007.09 |
| 25  | 573965.16 | 350007.09 |
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| 27  | 573965.16 | 350007.09 |
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| 30  | 573965.16 | 350007.09 |
| 31  | 573965.16 | 350007.09 |
| 32  | 573965.16 | 350007.09 |
| 33  | 573965.16 | 350007.09 |

| PT. | NORTHING  | EASTING   |
|-----|-----------|-----------|
| 34  | 573965.16 | 350007.09 |
| 35  | 573965.16 | 350007.09 |
| 36  | 573965.16 | 350007.09 |
| 37  | 573965.16 | 350007.09 |
| 38  | 573965.16 | 350007.09 |
| 39  | 573965.16 | 350007.09 |
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| PT. | NORTHING  | EASTING   |
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| 70  | 573965.16 | 350007.09 |
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| 84  | 573965.16 | 350007.09 |
| 85  | 573965.16 | 350007.09 |
| 86  | 573965.16 | 350007.09 |
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| 99  | 573965.16 | 350007.09 |
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| 102 | 573965.16 | 350007.09 |

| PT. | NORTHING  | EASTING   |
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| 103 | 573965.16 | 350007.09 |
| 104 | 573965.16 | 350007.09 |
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| 111 | 573965.16 | 350007.09 |
| 112 | 573965.16 | 350007.09 |
| 113 | 573965.16 | 350007.09 |
| 114 | 573965.16 | 350007.09 |
| 115 | 573965.16 | 350007.09 |
| 116 | 573965.16 | 350007.09 |
| 117 | 573965.16 | 350007.09 |
| 118 | 573965.16 | 350007.09 |
| 119 | 573965.16 | 350007.09 |
| 120 | 573965.16 | 350007.09 |
| 121 | 573965.16 | 350007.09 |
| 122 | 573965.16 | 350007.09 |
| 123 | 573965.16 | 350007.09 |
| 124 | 573965.16 | 350007.09 |
| 125 | 573965.16 | 350007.09 |
| 126 | 573965.16 | 350007.09 |
| 127 | 573965.16 | 350007.09 |
| 128 | 573965.16 | 350007.09 |
| 129 | 573965.16 | 350007.09 |
| 130 | 573965.16 | 350007.09 |
| 131 | 573965.16 | 350007.09 |
| 132 | 573965.16 | 350007.09 |
| 133 | 573965.16 | 350007.09 |

PLAN MAP - BORROW AREA  
SURVEY TRANSECTS AND COORDINATES



PRELIMINARY  
FOR  
REVIEW ONLY

| NO. | DATE     | REVISIONS         |
|-----|----------|-------------------|
| 1   | 07/21/20 | APPROVED FOR FILE |
| 2   |          |                   |
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| 132 |          |                   |
| 133 |          |                   |

|              |           |
|--------------|-----------|
| FILE NAME    | LA-380    |
| DRAWING NAME | LA-380-27 |
| SHEET        | 27 of 32  |

PLAN MAP - BORROW AREA  
SURVEY PLAN TRANSECTS AND COORDINATES  
PO-75 LABRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

|          |               |      |       |
|----------|---------------|------|-------|
| DESIGNED | N. McDOY      | DATE | 07/21 |
| DRAWN    | A. GREMILLION |      | 07/21 |
| CHECKED  | B. SAMSON     |      | 07/21 |
| APPROVED |               |      |       |

## ADDITIONAL MATERIAL SYMBOLS

| GRAVEL LETTER |  | DESCRIPTION                    |
|---------------|--|--------------------------------|
| CC            |  | Cement Concrete                |
| AC            |  | Asphalt Concrete               |
| CR            |  | Crushed Rock/<br>Quarry Spalls |
| TS            |  | Topsoil/<br>Forest Duff/Soil   |

**NOTE:** Multiple operations are used to indicate boundaries or dual and demarcation.

### **Summary Symbol Description**

☐ **Standardized Presentation Test (SPT)**

- 



Blowcount is recorded for driven samples as the number of blows required to advance sampler 12 inches (or distance noted). One expansion lag for hammer weight and drop.

A <sup>238</sup>Pu indicator sample pushed using the weight of the cell top.

**NOTE:** The number most often in the parentheses in the report list and the top of expenditures for a proper understanding of expenditure conditions. Expenditures on the top apply only at the specific expenditure item and at the time the expenditure was made. They are not intended to be representative of additional conditions at other locations or times.

## KEY TO EXPLORATION LOGS



**GEOENGINEERS**

**FIGURE B-4**

|                     |              |          |      |              |         |                        |                 |            |
|---------------------|--------------|----------|------|--------------|---------|------------------------|-----------------|------------|
| Order #             | 7167310      | Est. #   | 30   | Logistics by | VF      | Standardized Equipment | Ordering Method | RFI        |
| Order Date          | 7/26/2011    | Buyer #  |      | Created by   | DSBE    | Manufacturer, LLC      |                 |            |
| Product Description | RT           | Hardware | Open | Diagnostic   | N/A     | Equipment              | Partitions      | Mounted    |
| Version             | 2.2          | System   | Open | Manufacturer | N/A/DSB | Accessories            | Serial to       | Interfaced |
| Location            | NOV 04 23.2" |          |      |              |         |                        |                 |            |
| Language            | W07 23 09.4" |          |      |              |         |                        |                 |            |

Note: See Figure A-1 for explanation of symbols.

Note: Comments given below the order.

| FIELD DATA              |            |                  |             |                      | LABORATORY DATA  |                    |                           |                          |           |                          |                  |                          |    |
|-------------------------|------------|------------------|-------------|----------------------|------------------|--------------------|---------------------------|--------------------------|-----------|--------------------------|------------------|--------------------------|----|
| Elevation (Feet)        |            | Depth (Feet)     |             | Material Description | Soil Properties  |                    |                           |                          |           |                          |                  |                          |    |
| Interval Recovered (in) | Bottom/Top | Collected Sample | Sample Name |                      | Water Content, % | Dry Density, (pcf) | Compaction Strength (TSF) | Confining Pressure (ksf) | Strain, % | Plasticity Index (PI), % | Moisture (MC), % | Flowing No. 200 sieve, % |    |
| 16                      |            | 1                |             |                      | 42               |                    |                           |                          |           | 22                       | 12               | 1.08                     | 52 |
| 26                      |            | 2                |             |                      | 47               |                    |                           |                          |           | 24                       | 22               | 1.14                     |    |
| 36                      |            | 3                |             | 50                   |                  |                    |                           |                          | 26        | 24                       | 1.14             |                          |    |
| 46                      |            | 4                |             | 54                   |                  |                    |                           |                          | 28        | 26                       | 1.17             | 24                       |    |
| 56                      |            | 5                |             | 58                   |                  |                    |                           |                          | 30        | 28                       | 1.20             |                          |    |
| 66                      |            | 6                |             | 62                   |                  |                    |                           |                          | 32        | 30                       | 1.23             |                          |    |
| 76                      |            | 7                |             | 66                   |                  |                    |                           |                          | 34        | 32                       | 1.26             |                          |    |
| 86                      |            | 8                |             | 70                   |                  |                    |                           |                          | 36        | 34                       | 1.29             |                          |    |
| 96                      |            | 9                |             | 74                   |                  |                    |                           |                          | 38        | 36                       | 1.32             |                          |    |
| 106                     |            | 10               |             | 78                   |                  |                    |                           |                          | 40        | 38                       | 1.35             |                          |    |
| 116                     |            | 11               |             | 82                   |                  |                    |                           |                          | 42        | 40                       | 1.38             |                          |    |
| 126                     |            | 12               |             | 86                   |                  |                    |                           |                          | 44        | 42                       | 1.41             |                          |    |

<sup>1</sup> An Audiotape Recorder is provided with units for strength testing.

**PRELIMINARY  
FOR  
REVIEW ONLY**

**Log of Boring BHBA-1**



**GEOENGINEERS**

**Project:** LaBranche East Marsh Creation (PO-76)  
**Project Location:** St. Charles Parish, Louisiana  
**Project Number:** 10883-009-01

**Figure B-2**  
**Figure 1 of 1**

| NO. |          | DATE | APPROVED | TITLE |
|-----|----------|------|----------|-------|
| 11  | XX/XX/99 |      | INITIALS | XXX   |
|     |          |      |          |       |

**SHEET 28 of 32**

SOIL BORING LOGS - BORROW AREA  
LEGEND KEY AND BHBA-1  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

|          |             |      |       |
|----------|-------------|------|-------|
| DESIGNED | N. McCOY    | DATE | 07/21 |
| DRAWN    | A. GREMLION |      | 07/21 |
| CHECKED  | B. SAMSON   |      | 07/21 |
| APPROVED |             |      |       |

**USDA** United States  
Department of  
Agriculture  
Natural Resources  
Conservation Service

[illegible][illegible]

| Elevation (feet) |  |  |  |  |  |  |  |  |  | Depth (feet) | Interval Recovered (in) | Blow/foot | Collected Sample | Sample Name | Water Level | Grasp Lag | Group Classification | MATERIAL DESCRIPTION<br>Zone (1) from top of previous block | Water Content, % | Dry Density, lb/cf | Compressive Strength (TSR), psi | Coring Pressure (PSI) | Stress, % | Liquid Limit (%) | Plasticity Index (PI), % | Moisture (GCI) | Penetration No. 200 Sieve |    |    |
|------------------|--|--|--|--|--|--|--|--|--|--------------|-------------------------|-----------|------------------|-------------|-------------|-----------|----------------------|-------------------------------------------------------------|------------------|--------------------|---------------------------------|-----------------------|-----------|------------------|--------------------------|----------------|---------------------------|----|----|
|                  |  |  |  |  |  |  |  |  |  |              |                         |           |                  |             |             |           |                      |                                                             |                  |                    |                                 |                       |           |                  |                          |                |                           |    |    |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       | 11        | 20               | 11          | 13          | 15        | 20                   | 25                                                          | 30               | 35                 | 40                              | 45                    | 50        | 55               | 60                       | 65             | 70                        | 75 | 80 |
| 10               |  |  |  |  |  |  |  |  |  | 12           | 7                       |           |                  |             |             |           |                      |                                                             |                  |                    |                                 |                       |           |                  |                          |                |                           |    |    |

[illegible]

**\*An Activist introduces a novel idea used for strength training.**

**\*An Adaptive Indicator: a model was used for strength testing**

**PRELIMINARY  
FOR  
REVIEW ONLY**

### Log of Boring BHBA-2

Log of Boring BHBA-3



**GEOENGINEERS**

Project: Labronche East Marsh Creation (PC-75)  
Project Location: St. Charles Parish, Louisiana  
Project Number: 10883-009-01

**Figures B-3**  
**Table 1**



**GEOENGINEERS**

Project: LIBRARYS EAST MAINSTATION CLOSURE  
Project Location: St. Charles Parish, Louisiana  
Project Number: 10683-008-01

Figure B-4  
Sheet 1 of 1

United States  
Department of  
Agriculture

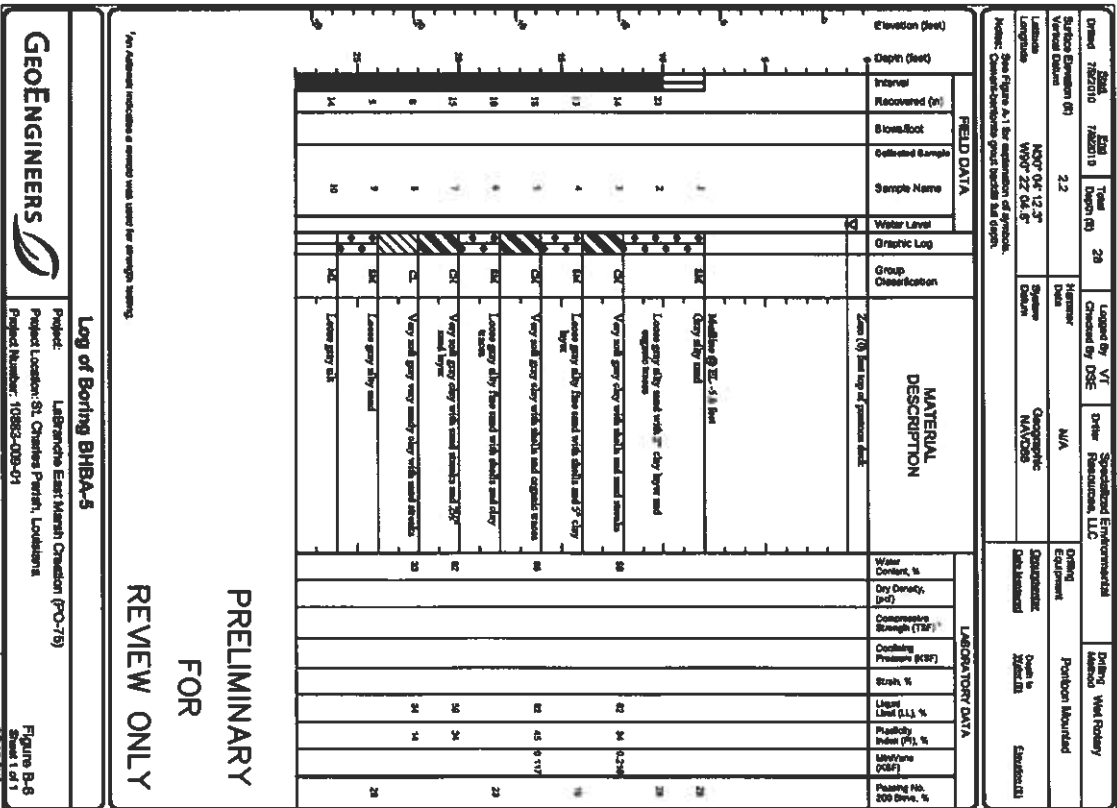
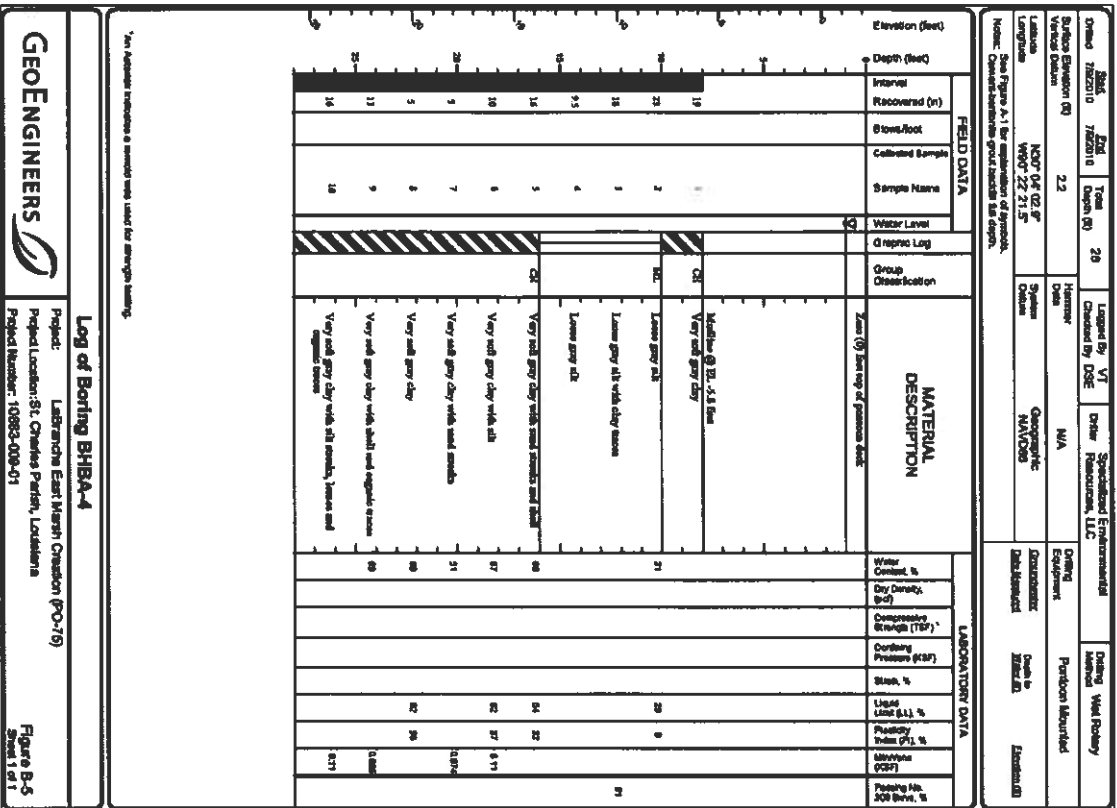
Natural Resources  
Conservation Service

SOIL BORING LOGS - BORROW AREA  
BHBA-2 AND BHBA-3  
PO-75 LaBRANCHE EAST MARSH CREATION  
ST. CHARLES PARISH, LOUISIANA

|          |               |      |       |
|----------|---------------|------|-------|
| DESIGNED | N. McCoy      | DATE | 07/21 |
| DRAWN    | A. GREMILLION |      | 07/21 |
| CHECKED  | B. SAMSON     |      | 07/21 |
| APPROVED |               |      |       |

SHEET 29 of 32







| Sheet 7/20210                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |                | Total Depth 00   |             | Logged by VT      |                    | Specified Environment      |                          |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |   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   |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |  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McCoy, LLC     |                          |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |        |     |     |     |    |     |   |   |
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| Longitude                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              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| Note: Center-surface ground inside the depth.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          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| See Figure A-1 for separation of borehole.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| <table border="1"> <thead> <tr> <th colspan="4">FIELD DATA</th> <th colspan="4">LABORATORY DATA</th> </tr> <tr> <th>Interval</th> <th>Recovered (in)</th> <th>Collected Sample</th> <th>Sample Name</th> <th>Water Content, %</th> <th>Dry Density, (pcf)</th> <th>Compressive Strength (TSF)</th> <th>Confining Pressure (PSF)</th> </tr> </thead> <tbody> <tr> <td>0-1</td> <td>1</td> <td>1</td> <td>1</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>1-2</td> <td>2</td> <td>2</td> <td>2</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>2-3</td> <td>3</td> <td>3</td> <td>3</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>3-4</td> <td>4</td> <td>4</td> <td>4</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>4-5</td> <td>5</td> <td>5</td> <td>5</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>5-6</td> <td>6</td> <td>6</td> <td>6</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>6-7</td> 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<tr> <td>61-62</td> <td>62</td> <td>62</td> <td>62</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>62-63</td> <td>63</td> <td>63</td> <td>63</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>63-64</td> <td>64</td> <td>64</td> <td>64</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>64-65</td> <td>65</td> <td>65</td> <td>65</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>65-66</td> <td>66</td> <td>66</td> <td>66</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>66-67</td> <td>67</td> <td>67</td> <td>67</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>67-68</td> <td>68</td> <td>68</td> <td>68</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>68-69</td> <td>69</td> <td>69</td> <td>69</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>69-70</td> <td>70</td> <td>70</td> <td>70</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>70-71</td> 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<td>80</td> <td>80</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>80-81</td> <td>81</td> <td>81</td> <td>81</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>81-82</td> <td>82</td> <td>82</td> <td>82</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>82-83</td> <td>83</td> <td>83</td> <td>83</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>83-84</td> <td>84</td> <td>84</td> <td>84</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>84-85</td> <td>85</td> <td>85</td> <td>85</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>85-86</td> <td>86</td> <td>86</td> <td>86</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>86-87</td> <td>87</td> <td>87</td> <td>87</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>87-88</td> <td>88</td> <td>88</td> <td>88</td> <td>40</td> <td>100</td> <td>0</td> <td>0</td> </tr> <tr> <td>88-89</td> <td>89</td> <td>89</td> 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| 40 | 100 | 0 | 0 | 10-11 | 11 | 11 | 11 | 40 | 100 | 0 | 0 | 11-12 | 12 | 12 | 12 | 40 | 100 | 0 | 0 | 12-13 | 13 | 13 | 13 | 40 | 100 | 0 | 0 | 13-14 | 14 | 14 | 14 | 40 | 100 | 0 | 0 | 14-15 | 15 | 15 | 15 | 40 | 100 | 0 | 0 | 15-16 | 16 | 16 | 16 | 40 | 100 | 0 | 0 | 16-17 | 17 | 17 | 17 | 40 | 100 | 0 | 0 | 17-18 | 18 | 18 | 18 | 40 | 100 | 0 | 0 | 18-19 | 19 | 19 | 19 | 40 | 100 | 0 | 0 | 19-20 | 20 | 20 | 20 | 40 | 100 | 0 | 0 | 20-21 | 21 | 21 | 21 | 40 | 100 | 0 | 0 | 21-22 | 22 | 22 | 22 | 40 | 100 | 0 | 0 | 22-23 | 23 | 23 | 23 | 40 | 100 | 0 | 0 | 23-24 | 24 | 24 | 24 | 40 | 100 | 0 | 0 | 24-25 | 25 | 25 | 25 | 40 | 100 | 0 | 0 | 25-26 | 26 | 26 | 26 | 40 | 100 | 0 | 0 | 26-27 | 27 | 27 | 27 | 40 | 100 | 0 | 0 | 27-28 | 28 | 28 | 28 | 40 | 100 | 0 | 0 | 28-29 | 29 | 29 | 29 | 40 | 100 | 0 | 0 | 29-30 | 30 | 30 | 30 | 40 | 100 | 0 | 0 | 30-31 | 31 | 31 | 31 | 40 | 100 | 0 | 0 | 31-32 | 32 | 32 | 32 | 40 | 100 | 0 | 0 | 32-33 | 33 | 33 | 33 | 40 | 100 | 0 | 0 | 33-34 | 34 | 34 | 34 | 40 | 100 | 0 | 0 | 34-35 | 35 | 35 | 35 | 40 | 100 | 0 | 0 | 35-36 | 36 | 36 | 36 | 40 | 100 | 0 | 0 | 36-37 | 37 | 37 | 37 | 40 | 100 | 0 | 0 | 37-38 | 38 | 38 | 38 | 40 | 100 | 0 | 0 | 38-39 | 39 | 39 | 39 | 40 | 100 | 0 | 0 | 39-40 | 40 | 40 | 40 | 40 | 100 | 0 | 0 | 40-41 | 41 | 41 | 41 | 40 | 100 | 0 | 0 | 41-42 | 42 | 42 | 42 | 40 | 100 | 0 | 0 | 42-43 | 43 | 43 | 43 | 40 | 100 | 0 | 0 | 43-44 | 44 | 44 | 44 | 40 | 100 | 0 | 0 | 44-45 | 45 | 45 | 45 | 40 | 100 | 0 | 0 | 45-46 | 46 | 46 | 46 | 40 | 100 | 0 | 0 | 46-47 | 47 | 47 | 47 | 40 | 100 | 0 | 0 | 47-48 | 48 | 48 | 48 | 40 | 100 | 0 | 0 | 48-49 | 49 | 49 | 49 | 40 | 100 | 0 | 0 | 49-50 | 50 | 50 | 50 | 40 | 100 | 0 | 0 | 50-51 | 51 | 51 | 51 | 40 | 100 | 0 | 0 | 51-52 | 52 | 52 | 52 | 40 | 100 | 0 | 0 | 52-53 | 53 | 53 | 53 | 40 | 100 | 0 | 0 | 53-54 | 54 | 54 | 54 | 40 | 100 | 0 | 0 | 54-55 | 55 | 55 | 55 | 40 | 100 | 0 | 0 | 55-56 | 56 | 56 | 56 | 40 | 100 | 0 | 0 | 56-57 | 57 | 57 | 57 | 40 | 100 | 0 | 0 | 57-58 | 58 | 58 | 58 | 40 | 100 | 0 | 0 | 58-59 | 59 | 59 | 59 | 40 | 100 | 0 | 0 | 59-60 | 60 | 60 | 60 | 40 | 100 | 0 | 0 | 60-61 | 61 | 61 | 61 | 40 | 100 | 0 | 0 | 61-62 | 62 | 62 | 62 | 40 | 100 | 0 | 0 | 62-63 | 63 | 63 | 63 | 40 | 100 | 0 | 0 | 63-64 | 64 | 64 | 64 | 40 | 100 | 0 | 0 | 64-65 | 65 | 65 | 65 | 40 | 100 | 0 | 0 | 65-66 | 66 | 66 | 66 | 40 | 100 | 0 | 0 | 66-67 | 67 | 67 | 67 | 40 | 100 | 0 | 0 | 67-68 | 68 | 68 | 68 | 40 | 100 | 0 | 0 | 68-69 | 69 | 69 | 69 | 40 | 100 | 0 | 0 | 69-70 | 70 | 70 | 70 | 40 | 100 | 0 | 0 | 70-71 | 71 | 71 | 71 | 40 | 100 | 0 | 0 | 71-72 | 72 | 72 | 72 | 40 | 100 | 0 | 0 | 72-73 | 73 | 73 | 73 | 40 | 100 | 0 | 0 | 73-74 | 74 | 74 | 74 | 40 | 100 | 0 | 0 | 74-75 | 75 | 75 | 75 | 40 | 100 | 0 | 0 | 75-76 | 76 | 76 | 76 | 40 | 100 | 0 | 0 | 76-77 | 77 | 77 | 77 | 40 | 100 | 0 | 0 | 77-78 | 78 | 78 | 78 | 40 | 100 | 0 | 0 | 78-79 | 79 | 79 | 79 | 40 | 100 | 0 | 0 | 79-80 | 80 | 80 | 80 | 40 | 100 | 0 | 0 | 80-81 | 81 | 81 | 81 | 40 | 100 | 0 | 0 | 81-82 | 82 | 82 | 82 | 40 | 100 | 0 | 0 | 82-83 | 83 | 83 | 83 | 40 | 100 | 0 | 0 | 83-84 | 84 | 84 | 84 | 40 | 100 | 0 | 0 | 84-85 | 85 | 85 | 85 | 40 | 100 | 0 | 0 | 85-86 | 86 | 86 | 86 | 40 | 100 | 0 | 0 | 86-87 | 87 | 87 | 87 | 40 | 100 | 0 | 0 | 87-88 | 88 | 88 | 88 | 40 | 100 | 0 | 0 | 88-89 | 89 | 89 | 89 | 40 | 100 | 0 | 0 | 89-90 | 90 | 90 | 90 | 40 | 100 | 0 | 0 | 90-91 | 91 | 91 | 91 | 40 | 100 | 0 | 0 | 91-92 | 92 | 92 | 92 | 40 | 100 | 0 | 0 | 92-93 | 93 | 93 | 93 | 40 | 100 | 0 | 0 | 93-94 | 94 | 94 | 94 | 40 | 100 | 0 | 0 | 94-95 | 95 | 95 | 95 | 40 | 100 | 0 | 0 | 95-96 | 96 | 96 | 96 | 40 | 100 | 0 | 0 | 96-97 | 97 | 97 | 97 | 40 | 100 | 0 | 0 | 97-98 | 98 | 98 | 98 | 40 | 100 | 0 | 0 | 98-99 | 99 | 99 | 99 | 40 | 100 | 0 | 0 | 99-100 | 100 | 100 | 100 | 40 | 100 | 0 | 0 |
| FIELD DATA                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             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| 29-30                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 33-34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 34-35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 35             | 35               | 35          | 40                | 100                | 0                          | 0                        |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |   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| 35-36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 36-37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 37-38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 38-39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 39-40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 40-41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 41             | 41               | 41          | 40                | 100                | 0                          | 0                        |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |   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| 41-42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 42-43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 43-44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 44-45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 45-46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 46-47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 47-48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 48-49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 49-50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 50-51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 51-52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 55-56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 56-57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 57-58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 58-59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 59-60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 60             | 60               | 60          | 40                | 100                | 0                          | 0                        |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |   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| 60-61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 61-62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 62-63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 63-64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 64             | 64               | 64          | 40                | 100                | 0                          | 0                        |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |   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| 64-65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 65             | 65               | 65          | 40                | 100                | 0                          | 0                        |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |   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| 65-66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 66-67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 67-68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 68-69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 69-70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 70             | 70               | 70          | 40                | 100                | 0                          | 0                        |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |   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| 70-71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 71-72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 72-73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 73-74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 74-75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 75-76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 76-77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 77-78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 78-79                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 79-80                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 80             | 80               | 80          | 40                | 100                | 0                          | 0                        |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |   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| 83-84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 84             | 84               | 84          | 40                | 100                | 0                          | 0                        |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |   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| 84-85                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 85-86                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 86             | 86               | 86          | 40                | 100                | 0                          | 0                        |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |   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| 86-87                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 87-88                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 88-89                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 89-90                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 90-91                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 92-93                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 93-94                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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| 94-95                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 95             | 95               | 95          | 40                | 100                | 0                          | 0                        |            |  |  |  |                 |  |  |  |          |                |                  |             |                  |                    |                            |                          |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |     |   |   |   |    |     |   |   |      |    |    |    |    |     |   |   |       |    |    |    |    |     |   |   |       |    |   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| 96-97                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  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**GEOENGINEERS**

Project: LaBranche East Marsh Creation (PO-75)

Project Location: St. Charles Parish, Louisiana

Project Number: 10885-009-01

Figure B-8

Sheet 1 of 1

|                                                         |  |                                                                                                                 |  |                                                                                                                                                                 |  |                                                                                                                           |  |                                                                               |  |
|---------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------|--|
| <p><b>PRELIMINARY</b></p> <p><b>FOR REVIEW ONLY</b></p> |  | <p><b>USDA</b> United States Department of Agriculture</p> <p><b>Natural Resources Conservation Service</b></p> |  | <p><b>SOIL BORING LOGS - BORROW AREA</b></p> <p><b>BHBA-8</b></p> <p><b>PO-75 LaBRANCHE EAST MARSH CREATION</b></p> <p><b>ST. CHARLES PARISH, LOUISIANA</b></p> |  | <p>DESIGNED: <b>M. McCOY</b></p> <p>DRAWN: <b>A. GEMILLON</b></p> <p>CHECKED: <b>B. SAMSON</b></p> <p>APPROVED: _____</p> |  | <p>DATE: <b>07/21</b></p> <p>DATE: <b>07/21</b></p> <p>DATE: <b>07/21</b></p> |  |
|---------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------|--|-----------------------------------------------------------------------------------------------------------------------------------------------------------------|--|---------------------------------------------------------------------------------------------------------------------------|--|-------------------------------------------------------------------------------|--|