LEGEND

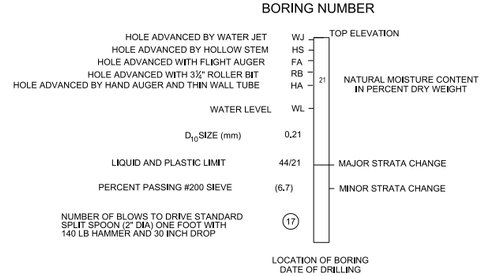
- ACB OR ACM (ARTICULATED CONCRETE BLOCK OR MAT)
- BORROW SITE
- BORING LOCATION
- BREAKLINE
- CENTERLINE
- CLAY CAP (PROFILE & SECTION VIEWS)
  DREDGE PLACMENT (PLAN VIEWS)
- EXISTING OR NEW ROAD (PLAN VIEWS)
  LEVEE ENHANCEMENT (PROFILE VIEWS)
- CONTROL POINT
- EPHEMERAL WETLAND
- EXISTING GROUND
- FLOW ARROW (FLOW)
- NORTH INDICATOR (N)
- PROJECT BOUNDARY
- RIPRAP
- RIVERMILE
- SLOPE
- WATER LEVEL (EL. 500.0)

ABBREVIATIONS

A	
APPROX	APPROXIMATE
ALUM	ALUMINUM
AVE	AVENUE
B	
BM	BENCHMARK
C	
CL	CENTERLINE
CMP	CORRUGATED METAL PIPE
CY	CUBIC YARDS
D	
DIA	DIAMETER
E	
E	EASTING
EL.	ELEVATION
F	
FT	FEET
H	
H	HORIZONTAL
I	
INV.	INVERT
IADNR	IOWA DEPARTMENT OF NATURAL RESOURCES
K	
KO	CONTRACTING OFFICER
M	
MAX	MAXIMUM
MIN	MINIMUM
MSL	MEAN SEA LEVEL
MSMU	MOIST SOIL MANAGEMENT UNIT
MSU	MOIST SOIL UNIT
N	
N	NORTHING
NAD	NORTH AMERICAN DATUM
NAVD	NORTH AMERICAN VERTICAL DATUM
NGS	NATIONAL GEODETIC SURVEY
NGVD	NATIONAL GEODETIC VERTICAL DATUM
P	
PI	POINT OF INTERCEPTION
R	
R	RADIUS
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
RM	RIVERMILE
RR	RAILROAD
S	
ST	STREET
STA	STATION
T	
TSI	TIMBER STAND IMPROVEMENT
TYP.	TYPICAL
U	
USFWS	US FISH AND WILDLIFE SERVICES
V	
V	VERTICAL

LEGEND

BORING NUMBER



NOTE:

1. BLOW COUNTS OBTAINED WITH CME AUTO HAMMER ON "HS" HOLES REFER TO ETL-1110-1-138.

BOR. LO-13-02
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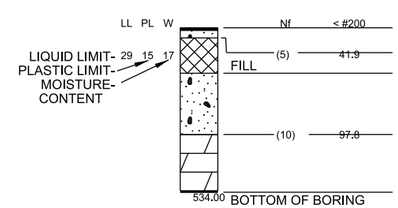
DATE: 10/04/2013
GROUND ELEV. EXISTING



-BORING NUMBER
-COORDINATE LOCATION
-DATE DRILLED
-EXISTING GROUND SURFACE ELEVATION

-NUMBER OF BLOWS TO DRIVE STANDARD SPLIT SPOON ONE FOOT WITH 140 LB HAMMER AND 30-INCH DROP

-PERCENT PASSING #200 SIEVE

- CH - USCS FAT CLAY
- CL - USCS LEAN CLAY
- SC - CLAYEY SAND
- SP - SAND, POORLY GRADED

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U.S. ARMY CORPS OF ENGINEERS
ROCK ISLAND DISTRICT
ROCK ISLAND, ILLINOIS

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MISSISSIPPI RIVER BASIN
LAKE ODESSA
HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
LEGEND AND ABBREVIATIONS

Sheet ID
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GENERAL NOTES

1. THE PROJECT IS LOCATED IN THE LAKE ODESSA STATE WILDLIFE MANAGEMENT AREA (IOWA DEPARTMENT OF NATURAL RESOURCES) AND THE PORT LOUISA NATIONAL WILDLIFE REFUGE (US FISH AND WILDLIFE SERVICE).

2. CONTRACT NUMBER W912EK-05-F-0058 (PUMP PURCHASE).
   - a. THE WORK INCLUDED:
     - i. PORTABLE PUMPS PURCHASED AND MODIFIED FOR WATER CONTROL OF THE INTERIOR SYSTEMS THROUGHOUT THE REFUGE.
   - b. THE CONTRACT WAS AWARDED IN 2005.

3. CONTRACT W912EK-06-C-0054 (STAGE I).
   - a. THE WORK INCLUDED:
     - i. THE CONSTRUCTION OF A NEW SPILLWAY STRUCTURE USING DEGRADED MATERIALS FROM THE EXISTING LEVEE;
     - ii. ENHANCING THE EXISTING LEVEE SECTION WITH PERVIOUS EMBANKMENT;
     - iii. CONSTRUCTION (EXCAVATION) OF EPHEMERAL WETLANDS; AND
     - iv. PLACEMENT OF COMPACTED GRANULAR SURFACING.
   - b. THE CONTRACT WAS AWARDED JUNE 17, 2006.
   - c. CONSTRUCTION WAS COMPLETED ON SEPTEMBER 30, 2009.

4. CONTRACT W912EK-07-C-0061 (STAGE IIA).
   - a. THE WORK INCLUDED:
     - i. HYDRAULIC AND MECHANICAL DREDGING FOR OVERWINTERING HABITAT;
     - ii. CONSTRUCTION OF NEW WATER CONTROL STRUCTURES;
     - iii. PLACEMENT OF RIPRAP; AND
     - iv. CONSTRUCTION OF ARTICULATED CONCRETE MAT PUMP PADS.
   - b. THE CONTRACT WAS AWARDED SEPTEMBER 28, 2007.
   - c. CONSTRUCTION WAS COMPLETED ON SEPTEMBER 25, 2009.

5. CONTRACT W912EK-09-C-0099 (STAGE IB).
   - a. THE WORK INCLUDED:
     - i. ENHANCING THE EXISTING LEVEE SECTION WITH A TWO FOOT CLAY CAP (IMPERVIOUS MATERIAL).
   - b. THE CONTRACT WAS AWARDED AUGUST 28, 2009.
   - c. CONSTRUCTION WAS COMPLETED ON JUNE 16, 2012.

6. CONTRACT W912EK-10-C-0018 (STAGE IIB).
   - a. THE WORK INCLUDED:
     - i. MECHANICAL DREDGING, AND
     - ii. PLACEMENT SITE PREPARATION FOR OVERWINTERING HABITAT.
   - b THE CONTRACT WAS AWARDED DECEMBER 28, 2009.
   - c. CONSTRUCTION WAS COMPLETED ON APRIL 28, 2011.

7. CONTRACT W912EK-10-D-004, TASK ORDER 1 (FORESTRY CONTRACT).
   - a. THE WORK INCLUDED:
     - i. TREE PLANTING OF 1,020 TREES; AND
     - ii. TIMBER STAND IMPROVEMENT WORK OVER 403 ACRES.
   - b. THE CONTRACT WAS AWARDED ON MARCH 24, 2010.
   - c. WORK WAS COMPLETED IN APRIL 2011.

8. CONTRACT W912EK-14-C-0080 (2013 FLOOD RECOVERY).
   - a. THE WORK INCLUDED:
     - i. CONSTRUCTION OF TWO SPILLWAYS;
     - ii. BREACH REPAIR WITH CLAY CAP AND RIPRAP; AND
     - iii. EROSION DAMAGE REPAIR.
   - b. THE CONTRACT WAS AWARDED ON AUGUST 19, 2014.
   - c. CONSTRUCTION WAS COMPLETED ON SEPTEMBER 2, 2016.

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SOLICITATION NO.:
CONTRACT NO.:
PROJECT CODE: O&M

MISSISSIPPI RIVER BASIN
LAKE ODESSA
HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
GENERAL NOTES

Sheet ID
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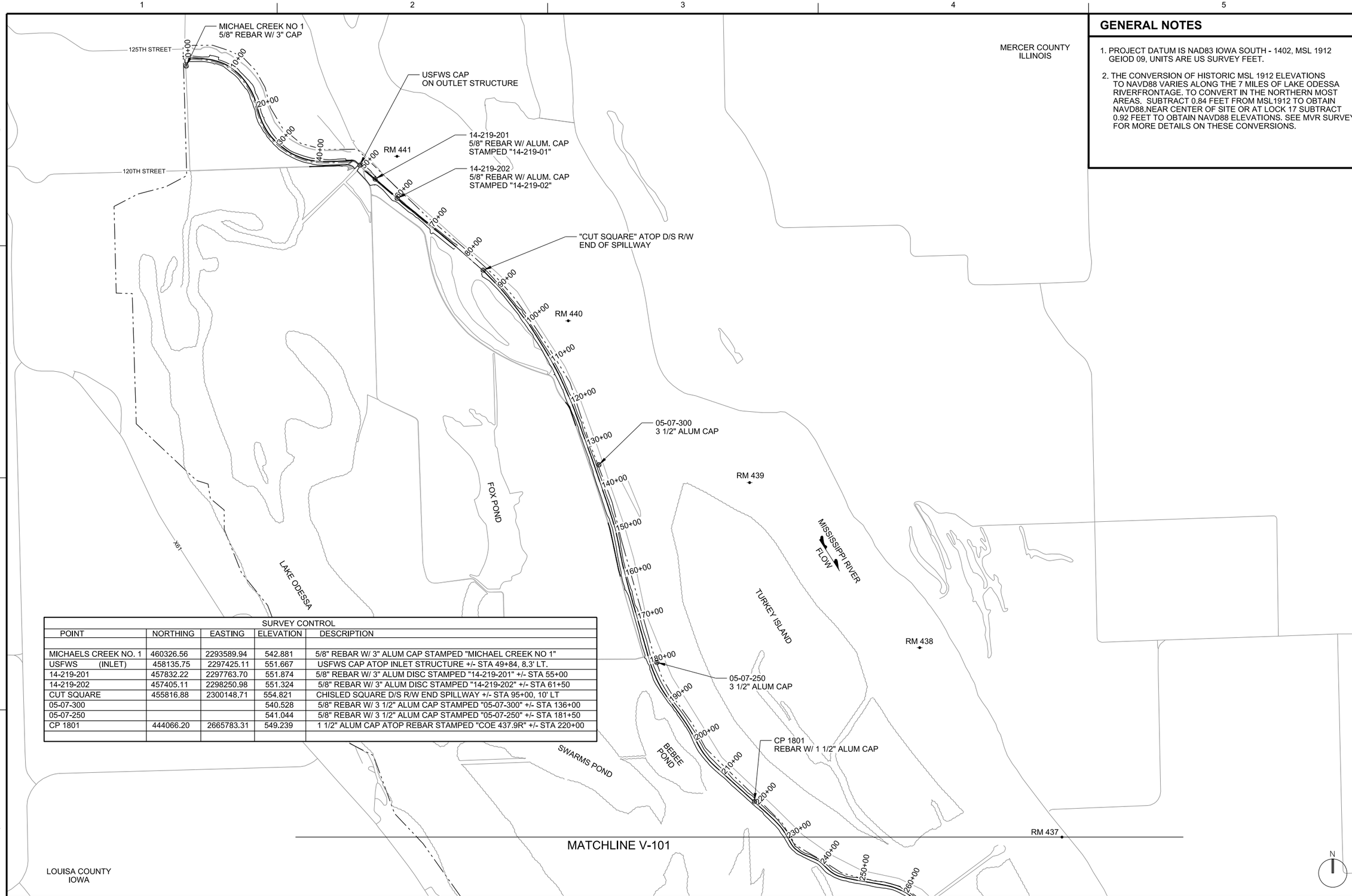

SURVEY CONTROL				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
MICHAELS CREEK NO. 1	460326.56	2293589.94	542.881	5/8" REBAR W/ 3" ALUM CAP STAMPED "MICHAEL CREEK NO 1"
USFWS (INLET)	458135.75	2297425.11	551.667	USFWS CAP ATOP INLET STRUCTURE +/- STA 49+84, 8.3' LT.
14-219-201	457832.22	2297763.70	551.874	5/8" REBAR W/ 3" ALUM DISC STAMPED "14-219-201" +/- STA 55+00
14-219-202	457405.11	2298250.98	551.324	5/8" REBAR W/ 3" ALUM DISC STAMPED "14-219-202" +/- STA 61+50
CUT SQUARE	455816.88	2300148.71	554.821	CHISLED SQUARE D/S R/W END SPILLWAY +/- STA 95+00, 10' LT
05-07-300			540.528	5/8" REBAR W/ 3 1/2" ALUM CAP STAMPED "05-07-300" +/- STA 136+00
05-07-250			541.044	5/8" REBAR W/ 3 1/2" ALUM CAP STAMPED "05-07-250" +/- STA 181+50
CP 1801	444066.20	2665783.31	549.239	1 1/2" ALUM CAP ATOP REBAR STAMPED "COE 437.9R" +/- STA 220+00

GENERAL NOTES

1. PROJECT DATUM IS NAD83 IOWA SOUTH - 1402, MSL 1912 GEIOD 09, UNITS ARE US SURVEY FEET.
2. THE CONVERSION OF HISTORIC MSL 1912 ELEVATIONS TO NAVD88 VARIES ALONG THE 7 MILES OF LAKE ODESSA RIVERFRONTAGE. TO CONVERT IN THE NORTHERN MOST AREAS. SUBTRACT 0.84 FEET FROM MSL1912 TO OBTAIN NAVD88.NEAR CENTER OF SITE OR AT LOCK 17 SUBTRACT 0.92 FEET TO OBTAIN NAVD88 ELEVATIONS. SEE MVR SURVEY FOR MORE DETAILS ON THESE CONVERSIONS.

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ROCK ISLAND, ILLINOIS

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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
SURVEY CONTROL PLAN

Sheet ID
V-100

A1 SURVEY CONTROL PLAN
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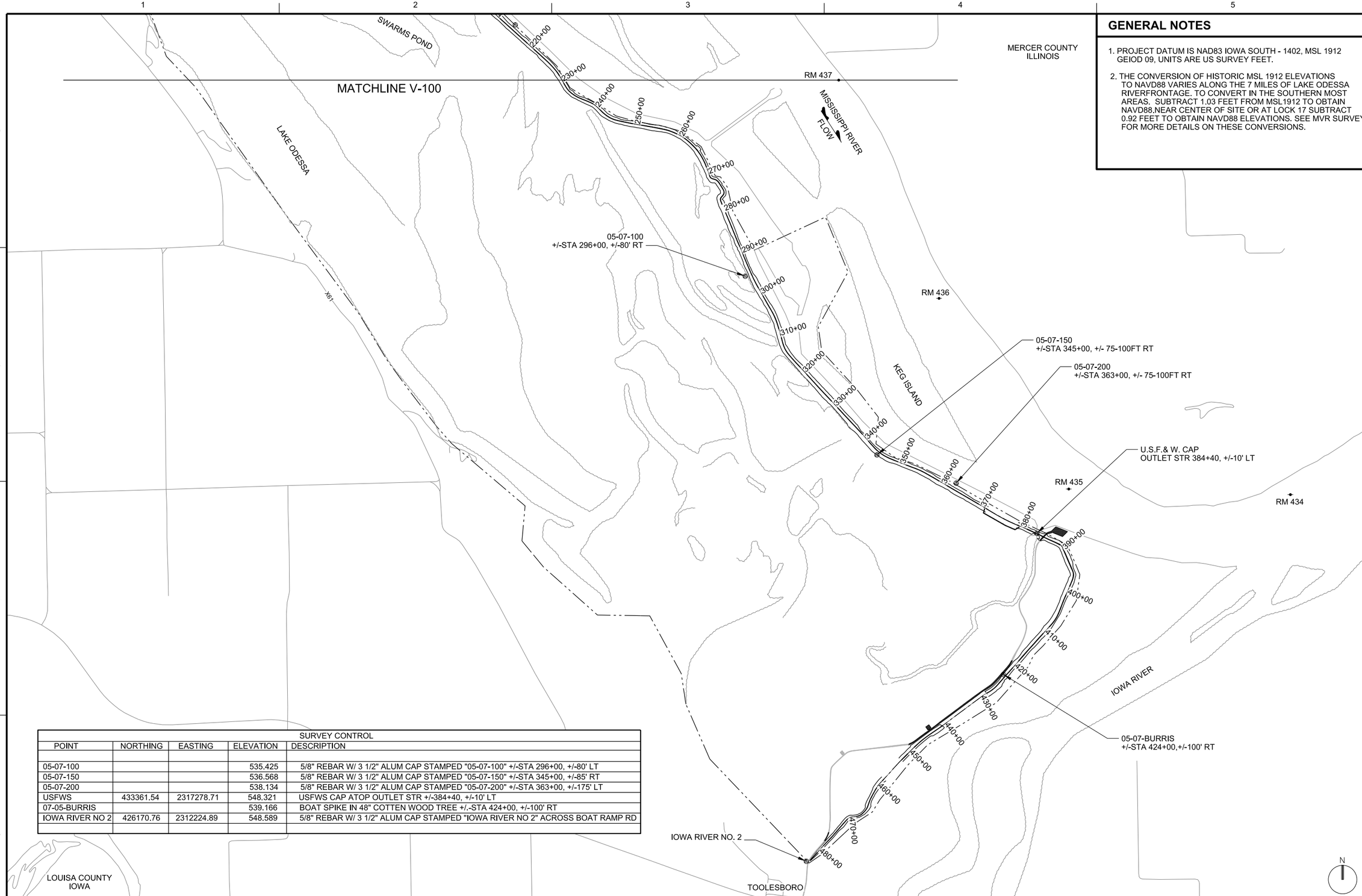
GENERAL NOTES

1. PROJECT DATUM IS NAD83 IOWA SOUTH - 1402, MSL 1912 GEIOD 09, UNITS ARE US SURVEY FEET.
2. THE CONVERSION OF HISTORIC MSL 1912 ELEVATIONS TO NAVD88 VARIES ALONG THE 7 MILES OF LAKE ODESSA RIVERFRONTAGE. TO CONVERT IN THE SOUTHERN MOST AREAS. SUBTRACT 1.03 FEET FROM MSL1912 TO OBTAIN NAVD88.NEAR CENTER OF SITE OR AT LOCK 17 SUBTRACT 0.92 FEET TO OBTAIN NAVD88 ELEVATIONS. SEE MVR SURVEY FOR MORE DETAILS ON THESE CONVERSIONS.



SURVEY CONTROL				
POINT	NORTHING	EASTING	ELEVATION	DESCRIPTION
05-07-100			535.425	5/8" REBAR W/ 3 1/2" ALUM CAP STAMPED "05-07-100" +/-STA 296+00, +/-80' LT
05-07-150			536.568	5/8" REBAR W/ 3 1/2" ALUM CAP STAMPED "05-07-150" +/-STA 345+00, +/-85' RT
05-07-200			538.134	5/8" REBAR W/ 3 1/2" ALUM CAP STAMPED "05-07-200" +/-STA 363+00, +/-175' LT
USFWS	433361.54	2317278.71	548.321	USFWS CAP ATOP OUTLET STR +/-384+40, +/-10' LT
07-05-BURRIS			539.166	BOAT SPIKE IN 48" COTTEN WOOD TREE +/.-STA 424+00, +/-100' RT
IOWA RIVER NO 2	426170.76	2312224.89	548.589	5/8" REBAR W/ 3 1/2" ALUM CAP STAMPED "IOWA RIVER NO 2" ACROSS BOAT RAMP RD

A1 SURVEY CONTROL PLAN

SCALE : 1"=1000'-0" 0 1000' 2000'

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CONTRACT NO.:
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MISSISSIPPI RIVER BASIN
LAKE ODESSA
HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
SURVEY CONTROL PLAN

Sheet ID
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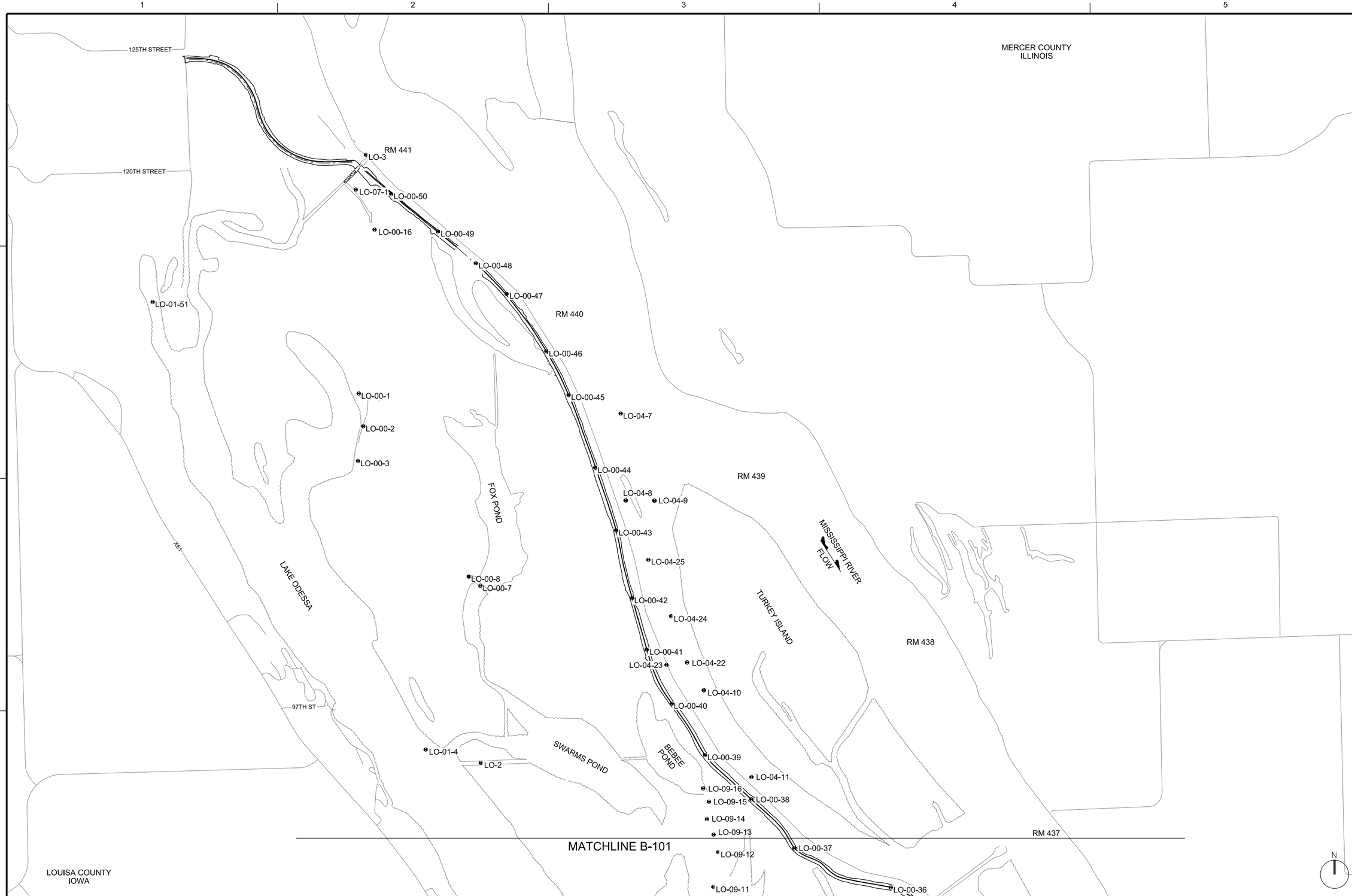

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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
BORING PLAN

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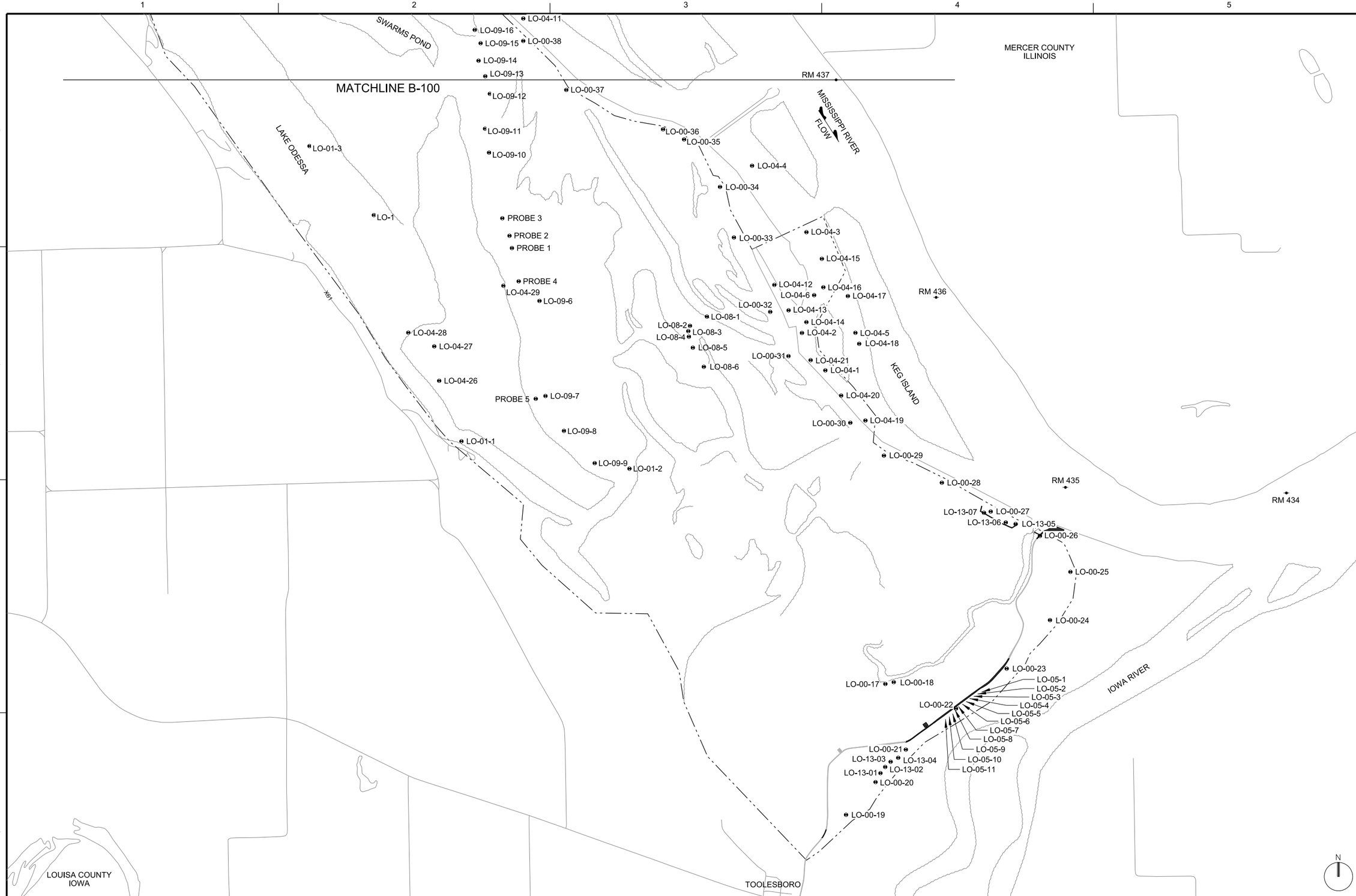

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ROCK ISLAND, ILLINOIS

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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
BORING PLAN

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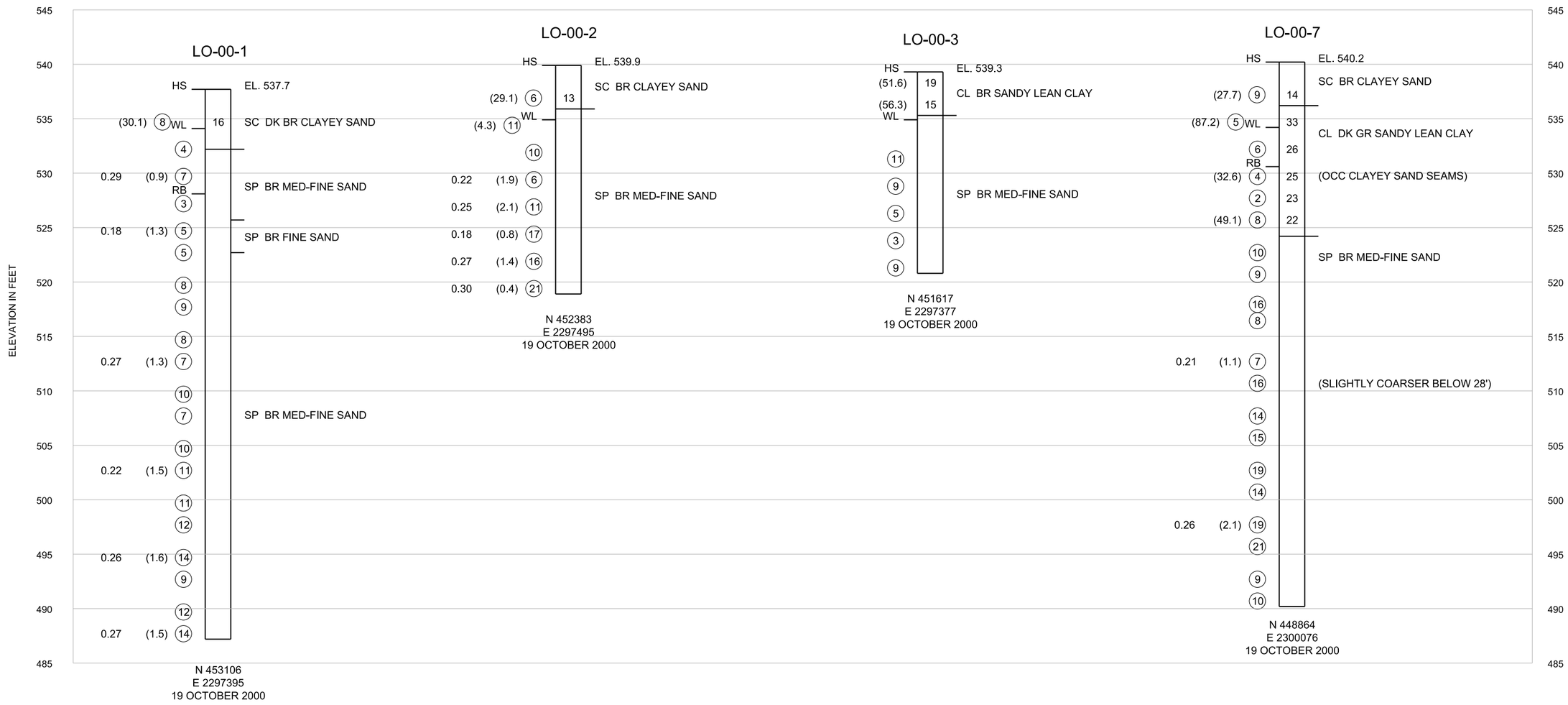

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MISSISSIPPI RIVER BASIN
LAKE ODESSA
HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
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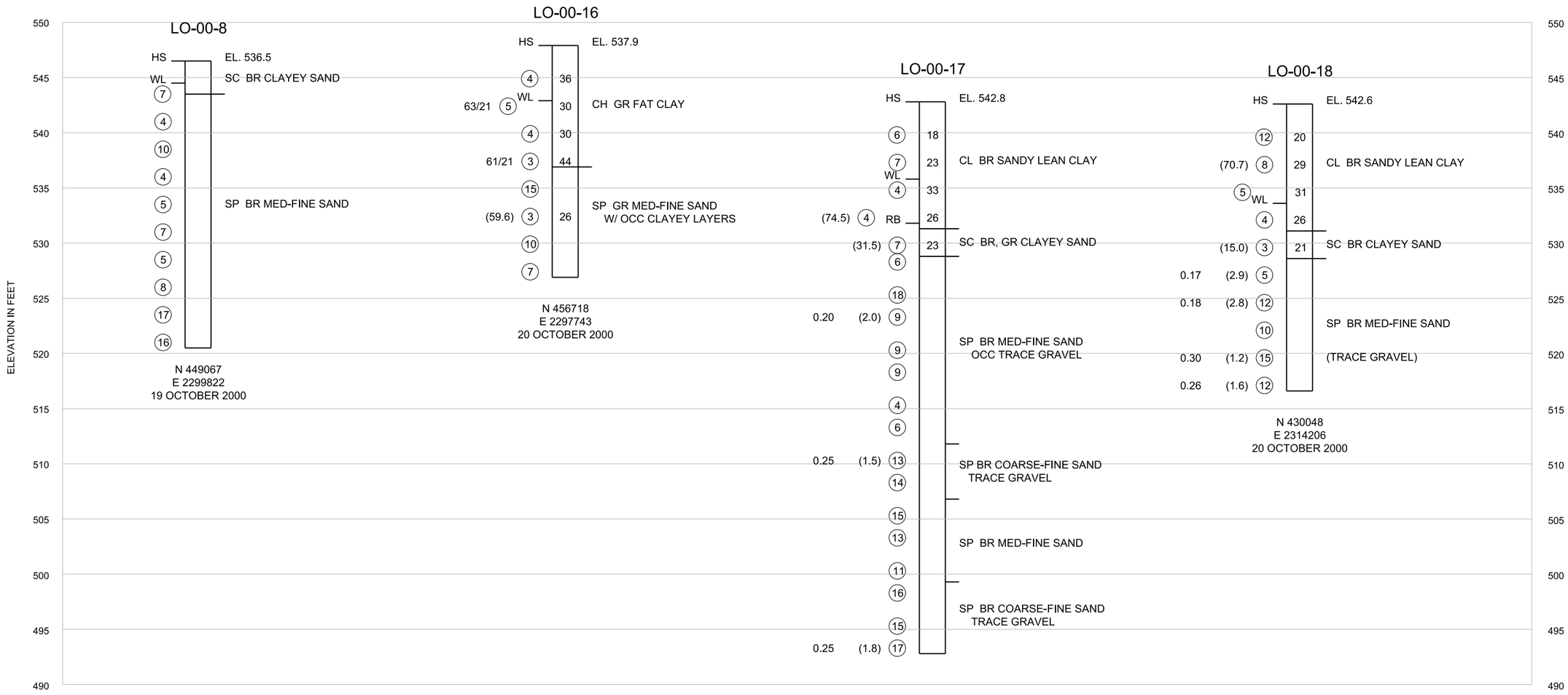

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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
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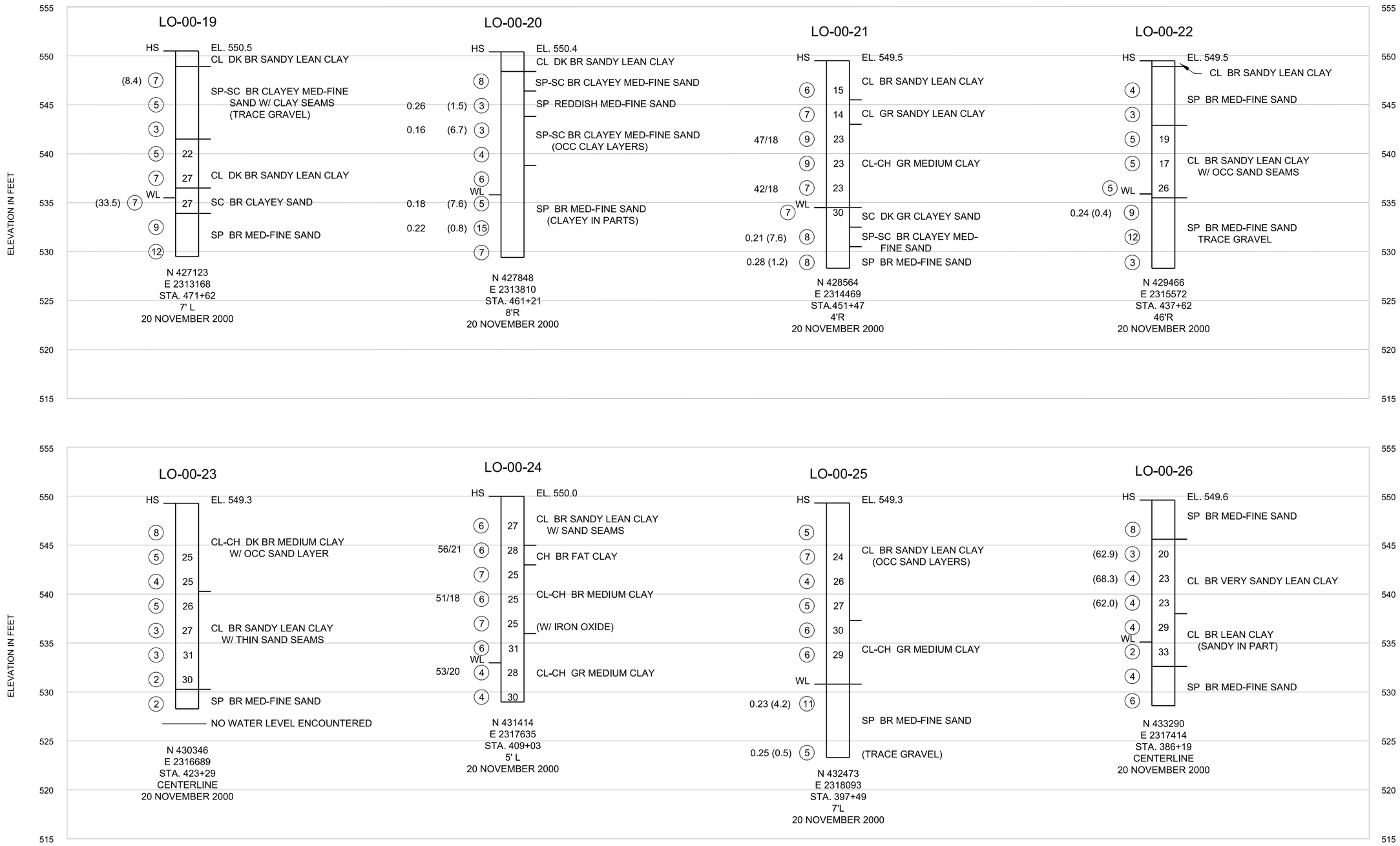

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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
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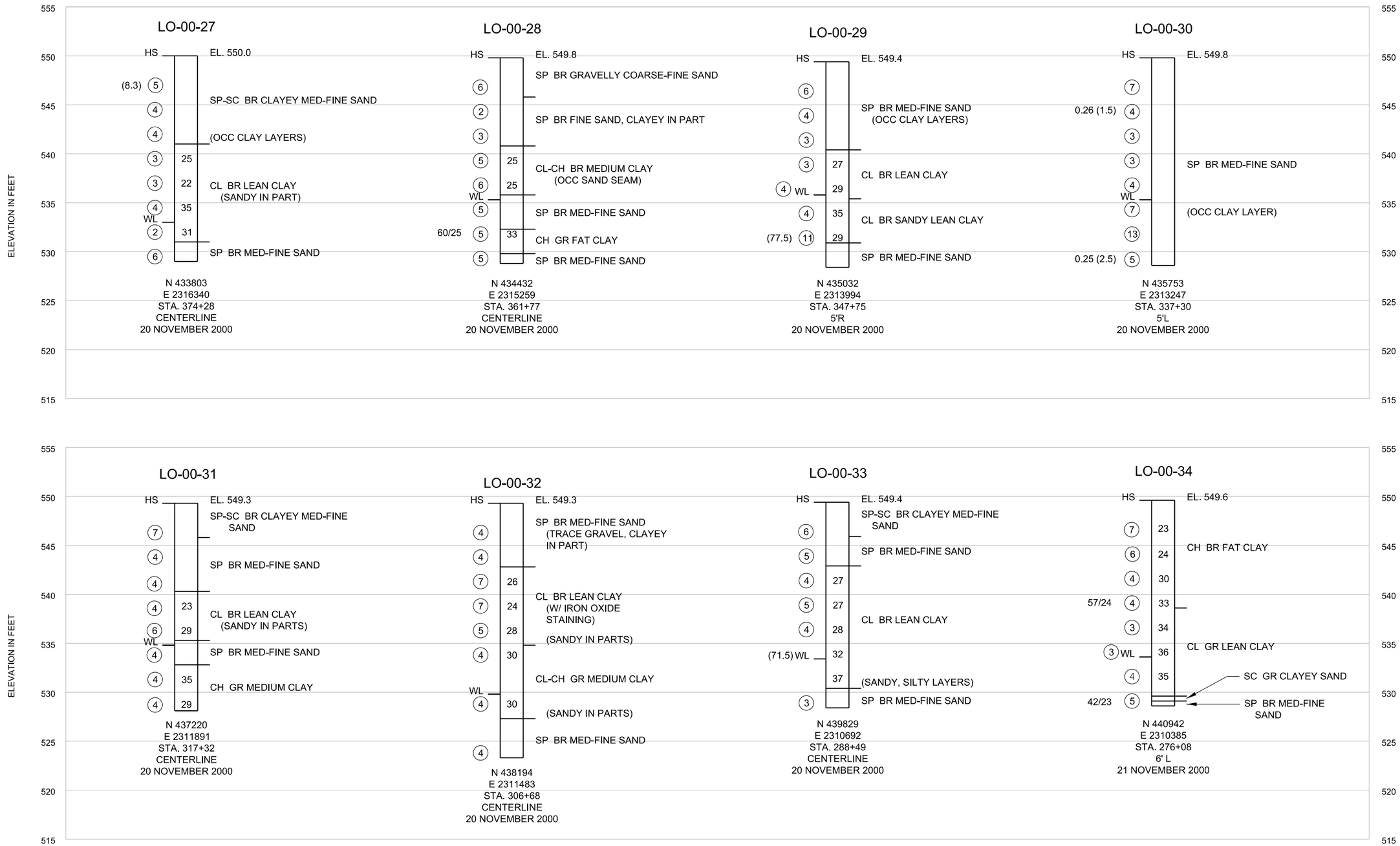

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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA

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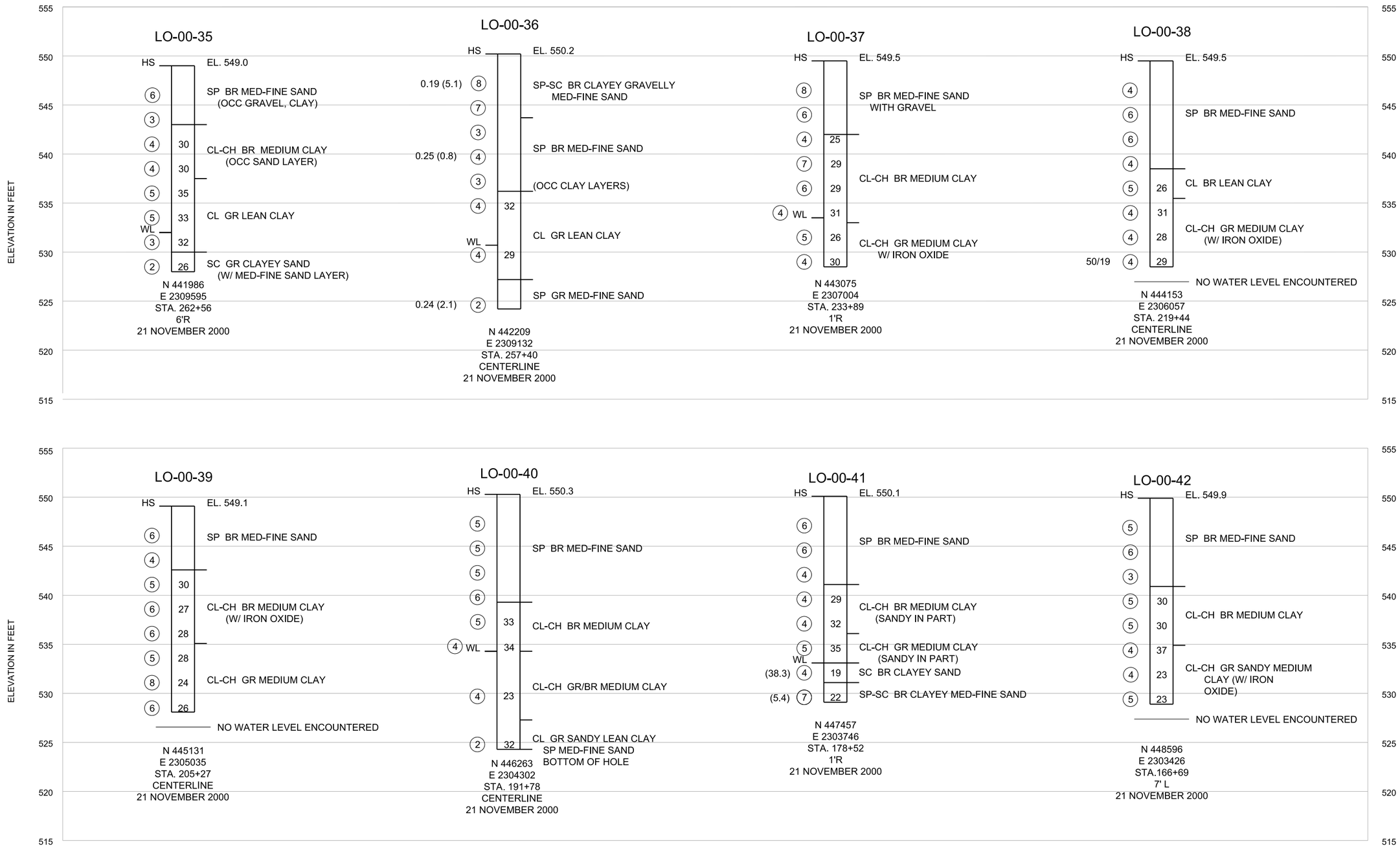

A1 BORING LOGS

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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
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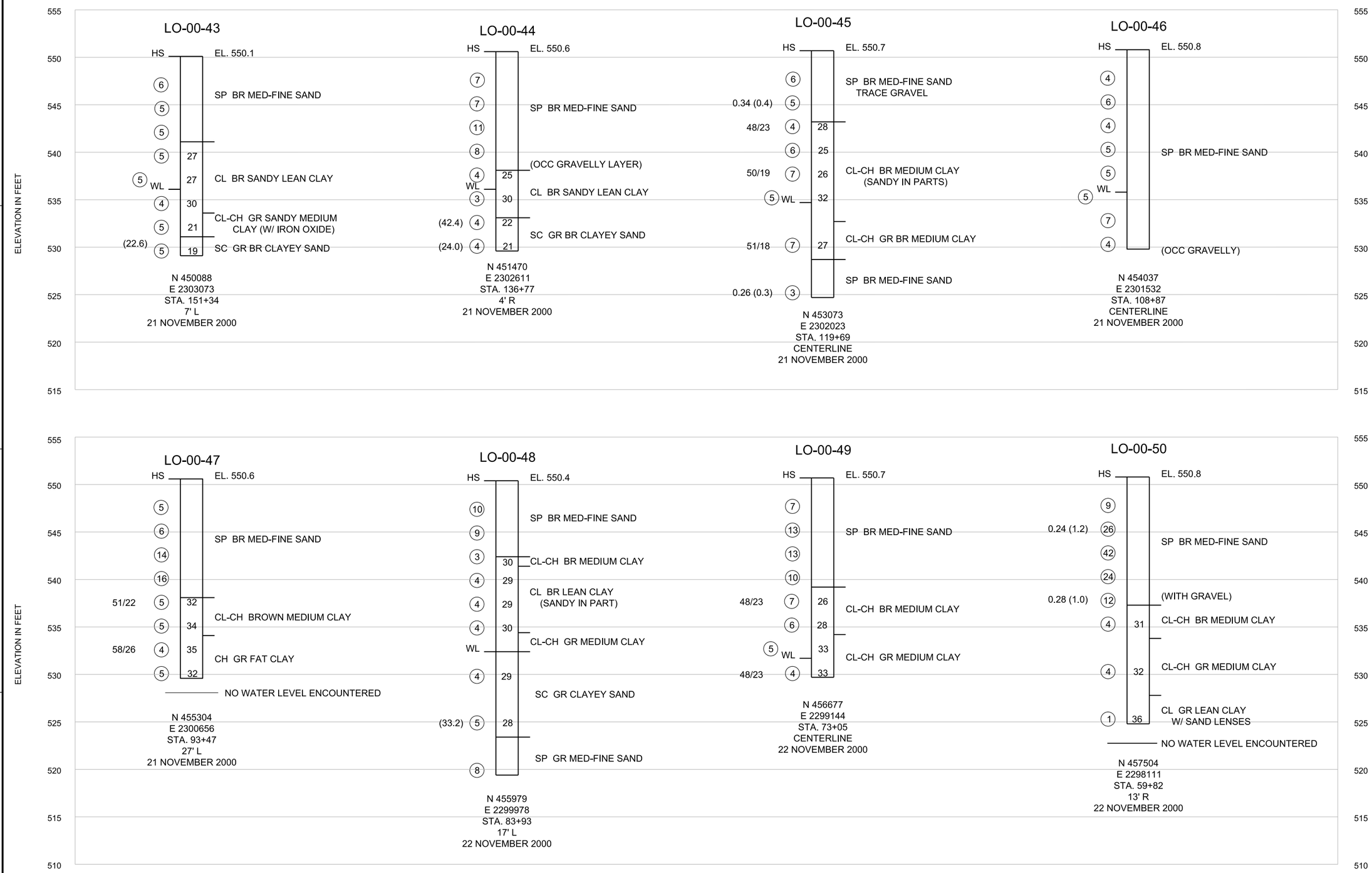

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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
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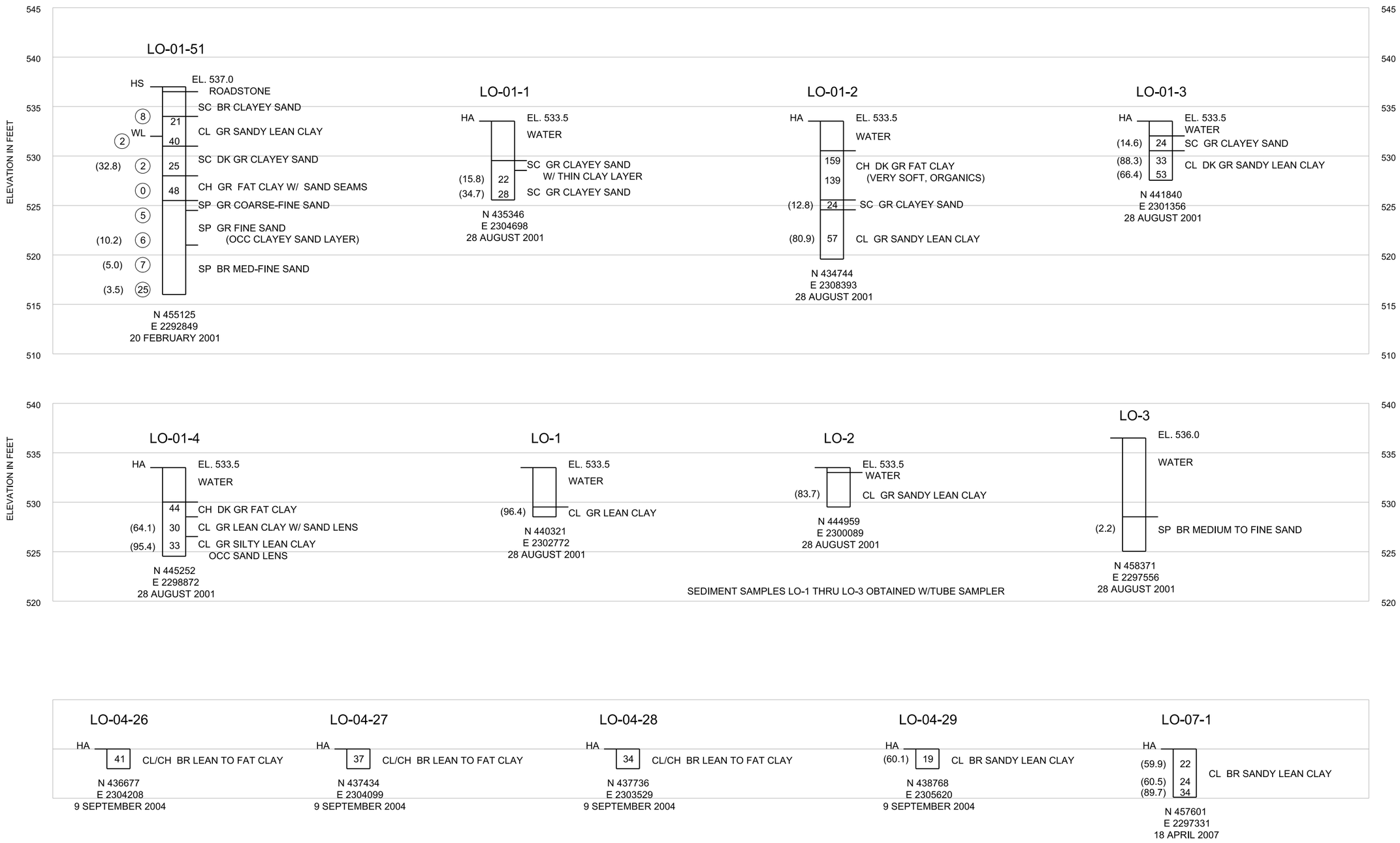

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MISSISSIPPI RIVER BASIN
LAKE ODESSA
HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
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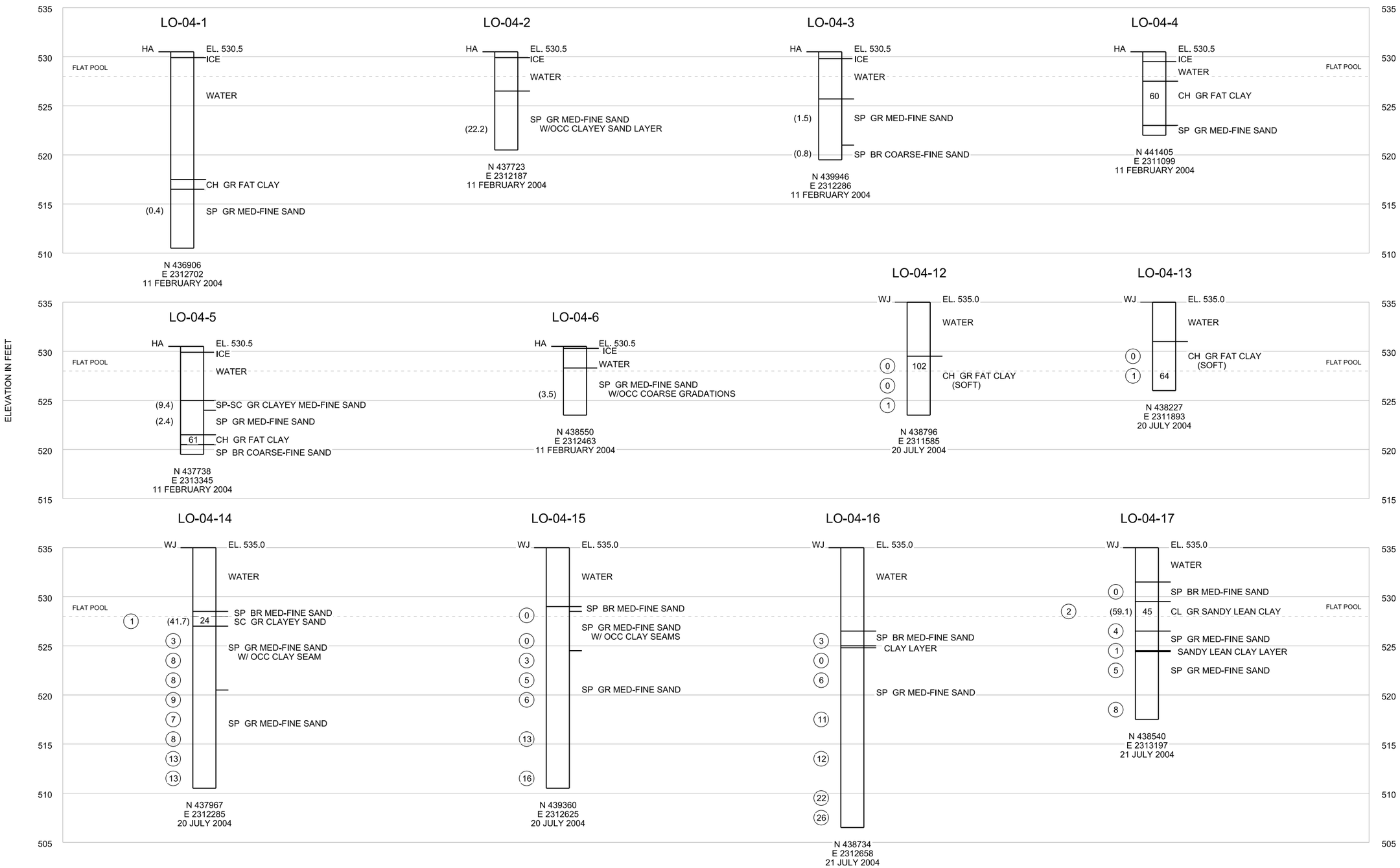

A1 BORING LOGS

NO SCALE

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
ROCK ISLAND DISTRICT
ROCK ISLAND, ILLINOIS

DESIGNED BY: | DATE: | DWN BY: | CKD BY: | SOLICITATION NO.: | SUBMITTED BY: | CONTRACT NO.: | PLOT SCALE: | PLOT DATE: | PROJECT CODE: O&M | SIZE: ANSI D | FILE NAME: O&M_B-109xxx.dgn

MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA

BORING LOGS

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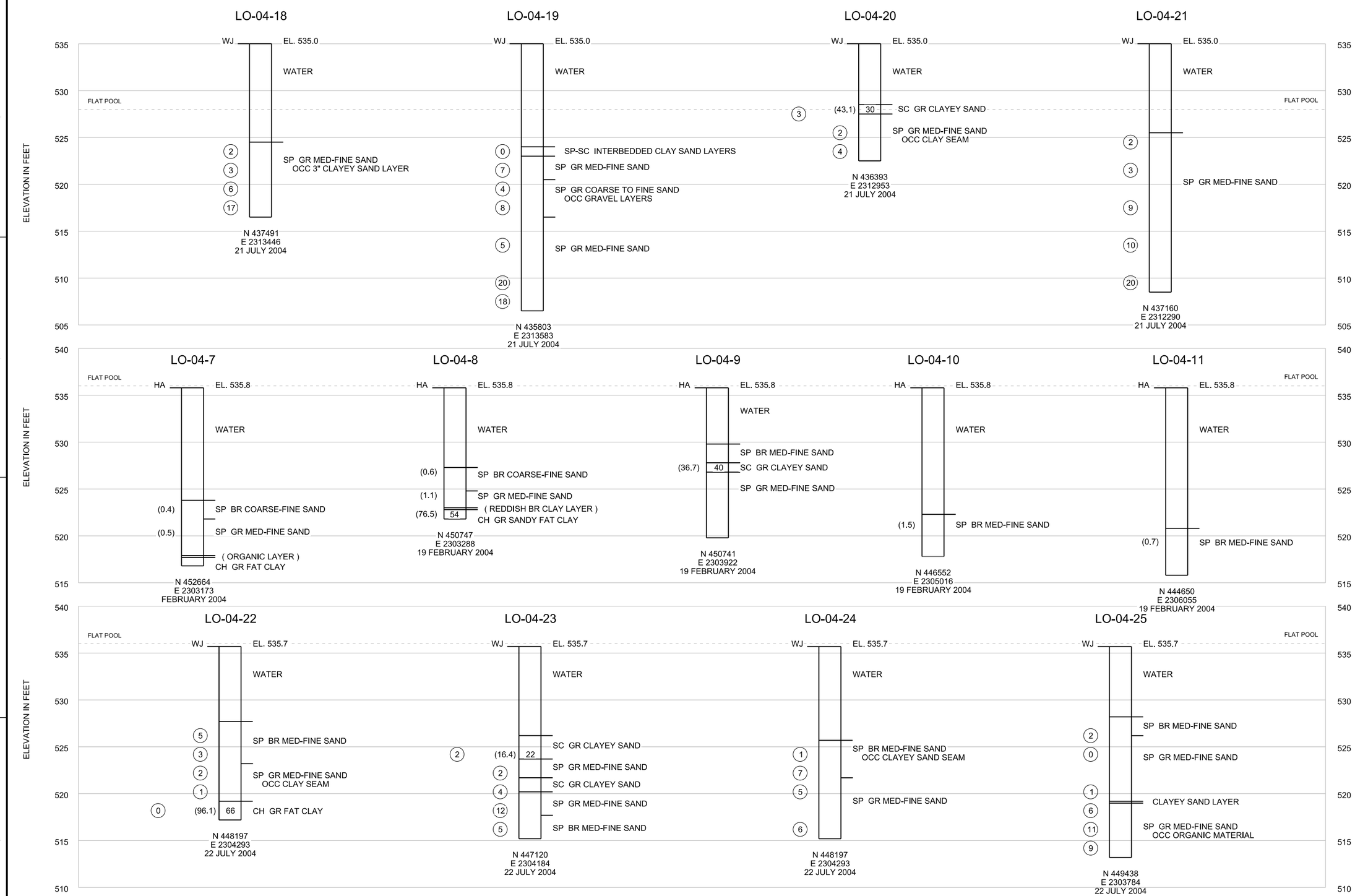

A1 BORING LOGS

NO SCALE

US Army Corps of Engineers®

MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
ROCK ISLAND DISTRICT
ROCK ISLAND, ILLINOIS

DESIGNED BY: | DATE: | SOLICITATION NO.:
DWN BY: | CKD BY: | CONTRACT NO.:
SUBMITTED BY: | PROJECT CODE: O&M
PLOT SCALE: | PLOT DATE:
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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
BORING LOGS

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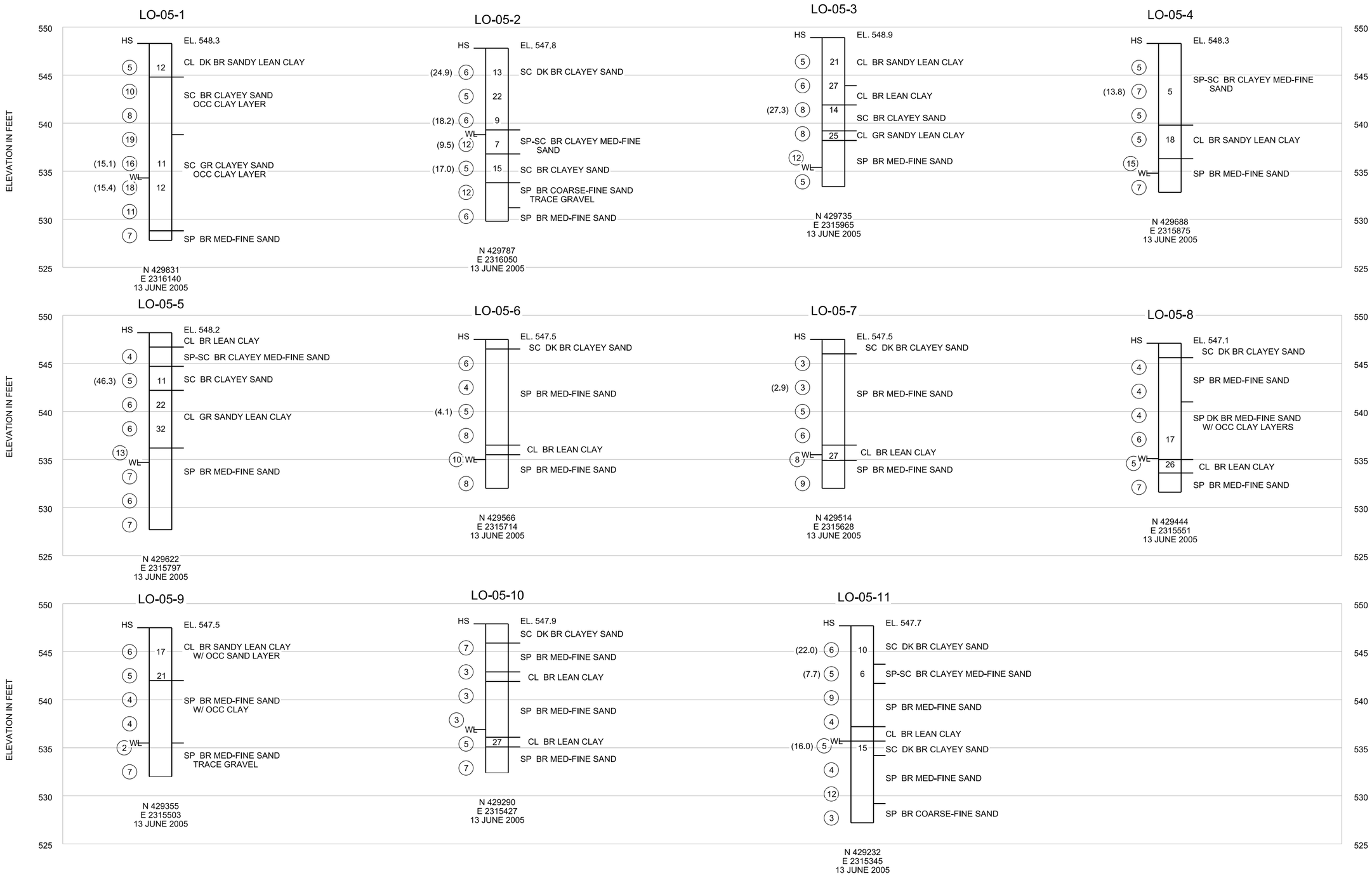

A1 BORING LOGS

NO SCALE

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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
ROCK ISLAND DISTRICT
ROCK ISLAND, ILLINOIS

DESIGNED BY: | DATE: | SOLICITATION NO.: | CONTRACT NO.: | PROJECT CODE: O&M
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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
BORING LOGS

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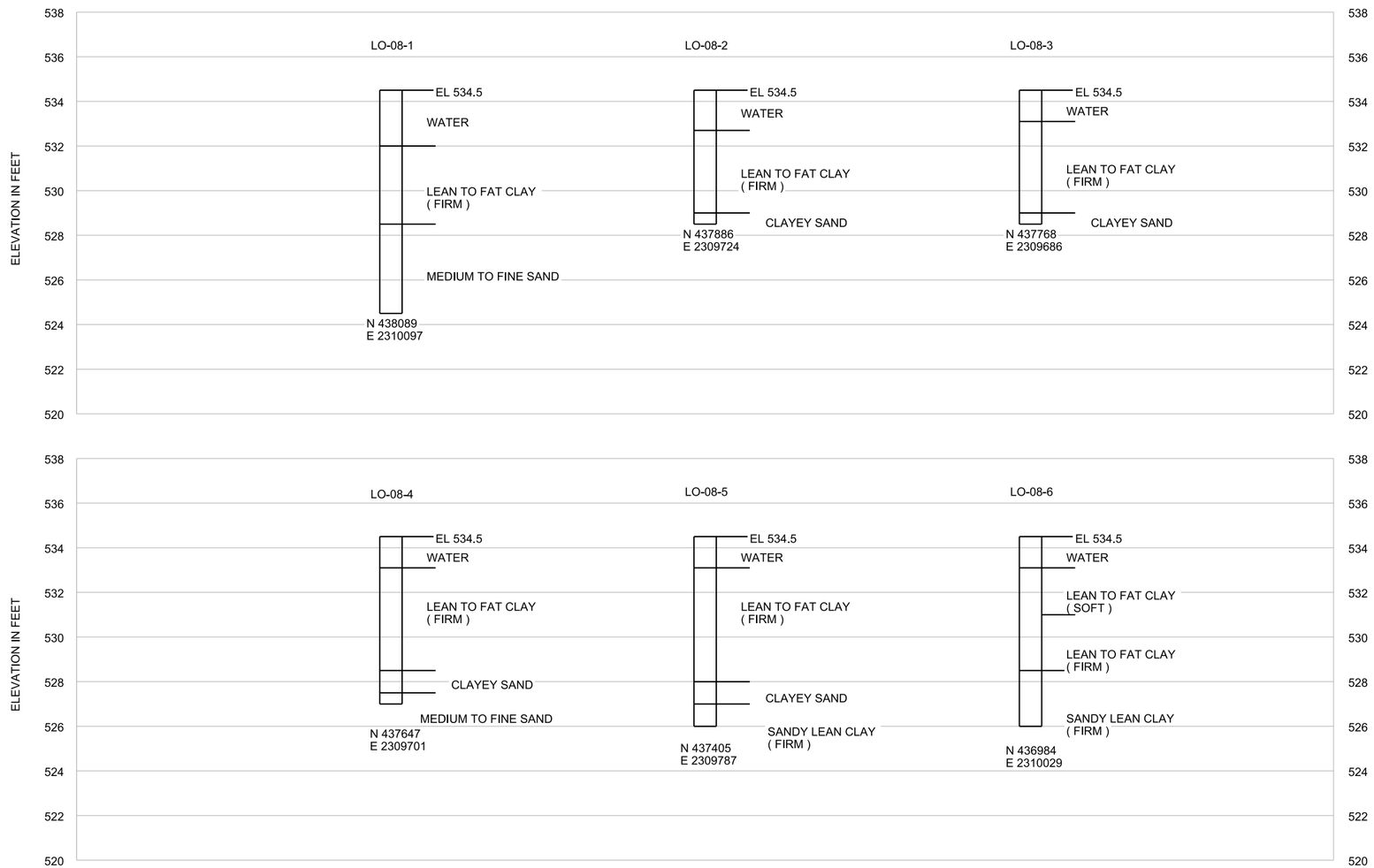

A1 BORING LOGS

NO SCALE

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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
ROCK ISLAND DISTRICT
ROCK ISLAND, ILLINOIS

DESIGNED BY: | DATE:
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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
BORING LOGS

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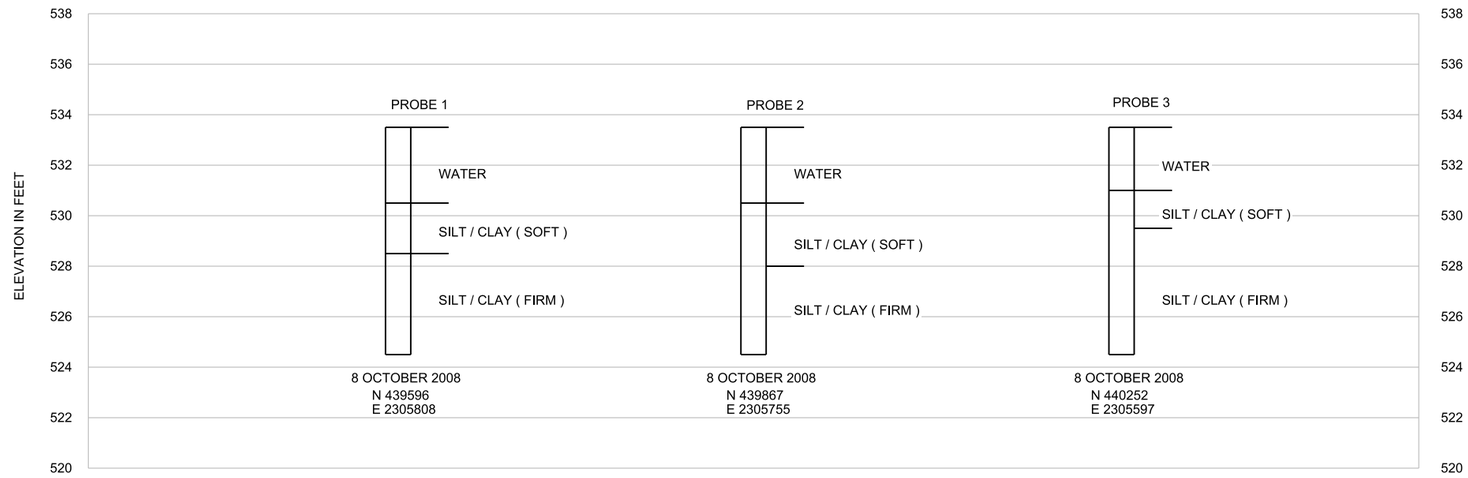

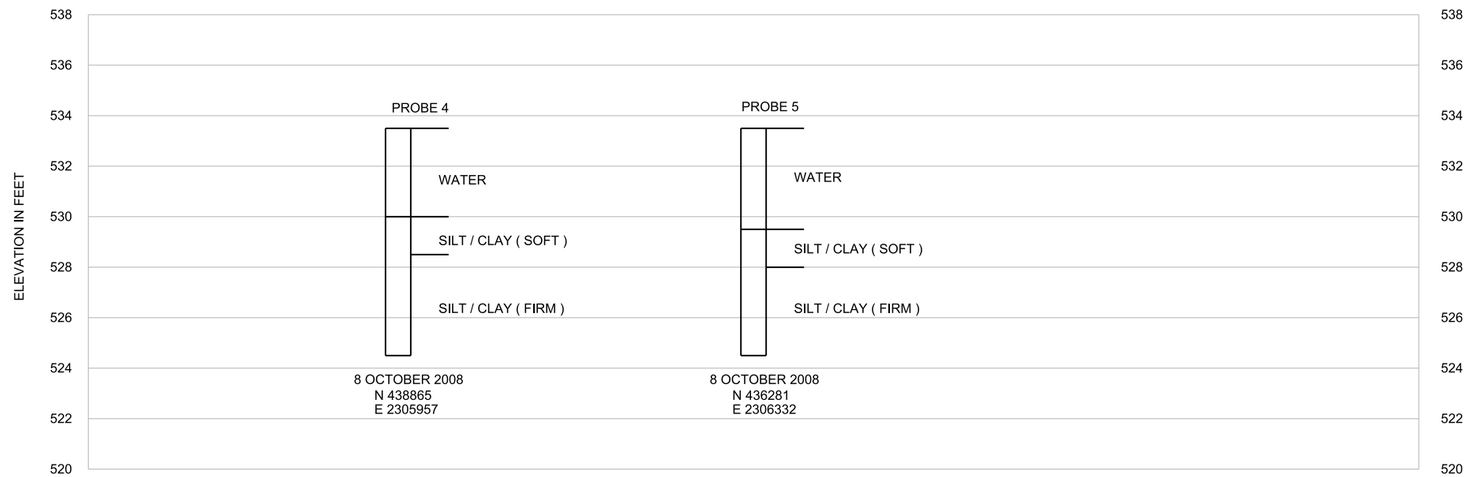

A1 BORING LOGS

NO SCALE

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U.S. ARMY CORPS OF ENGINEERS
ROCK ISLAND DISTRICT
ROCK ISLAND, ILLINOIS

DESIGNED BY: | DATE: | DWN BY: | CKD BY: | SOLICITATION NO.: | SUBMITTED BY: | CONTRACT NO.: | PLOT SCALE: | PLOT DATE: | PROJECT CODE: OMM | SIZE: ANSI D | FILE NAME: O&M_B-113xxx.dgn

MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA

BORING LOGS

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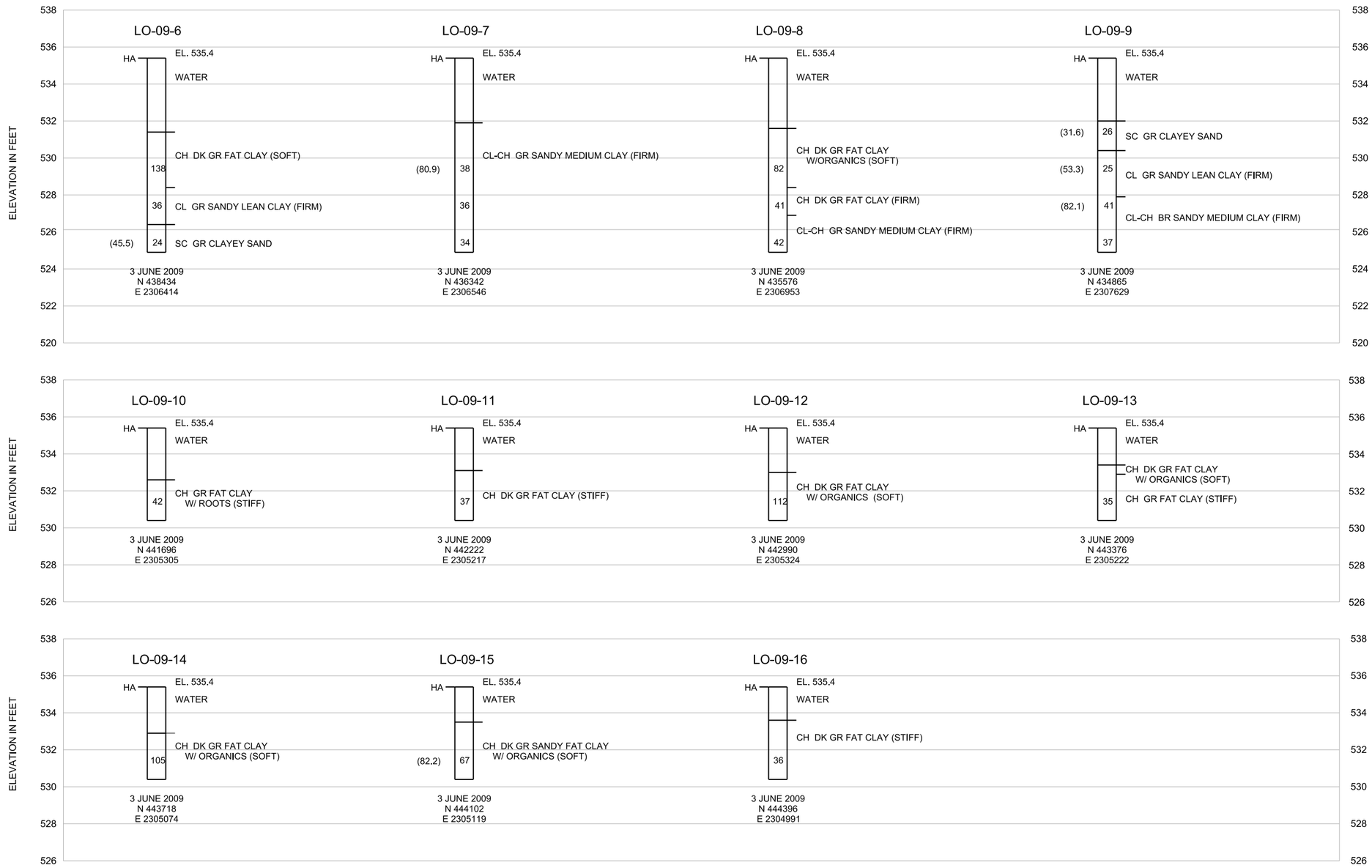

A1 BORING LOGS

NO SCALE

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MARK	DESCRIPTION	DATE	APPR.

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U.S. ARMY CORPS OF ENGINEERS
ROCK ISLAND DISTRICT
ROCK ISLAND, ILLINOIS

MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA

BORING LOGS

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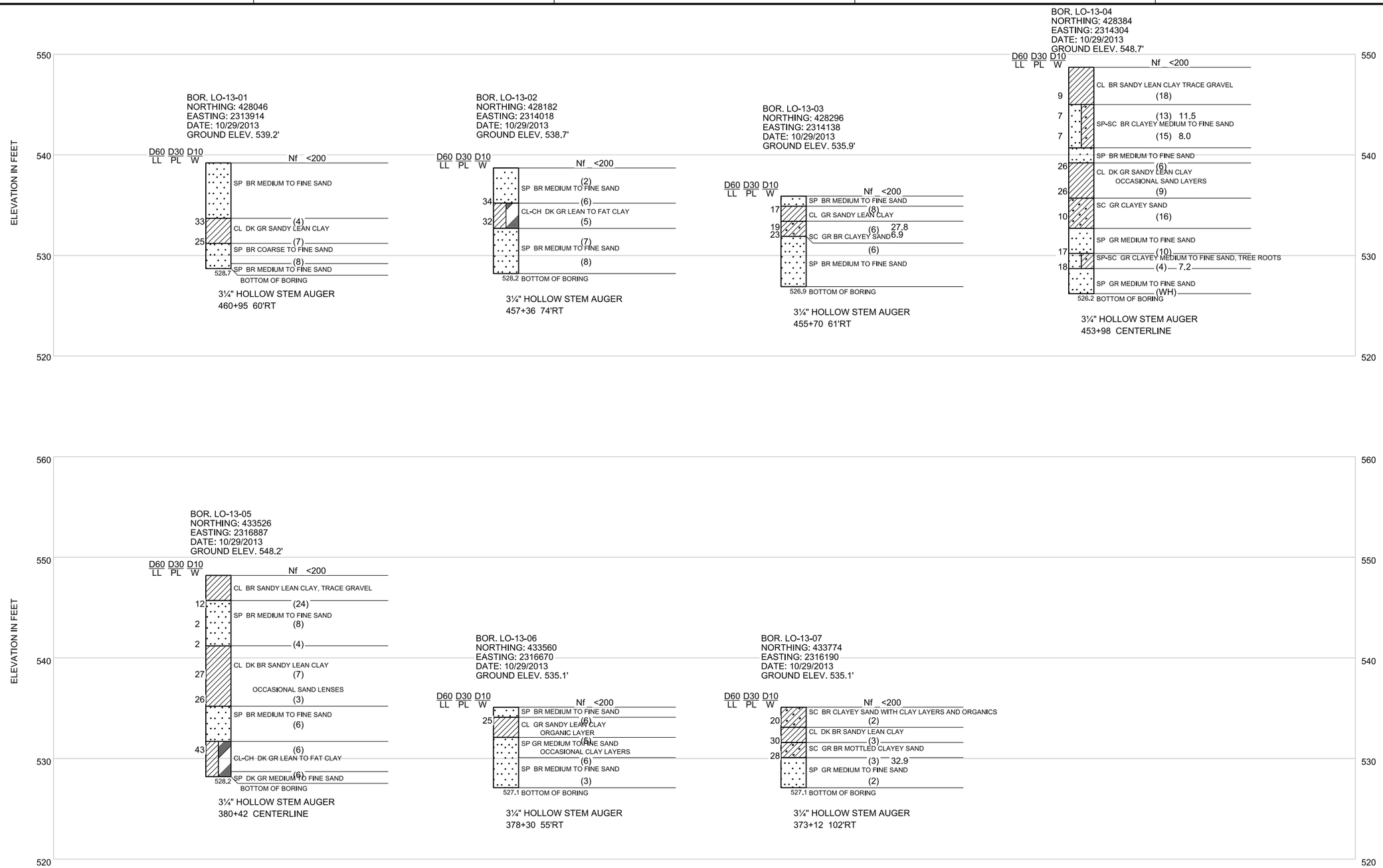

A1 BORING LOGS

NO SCALE

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MARK	DESCRIPTION	DATE	APPR.

U.S. ARMY CORPS OF ENGINEERS
ROCK ISLAND DISTRICT
ROCK ISLAND, ILLINOIS

DESIGNED BY: | DATE:
DWN BY: | CKD BY: | SOLICITATION NO.:
SUBMITTED BY: | CONTRACT NO.:
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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA

BORING LOGS

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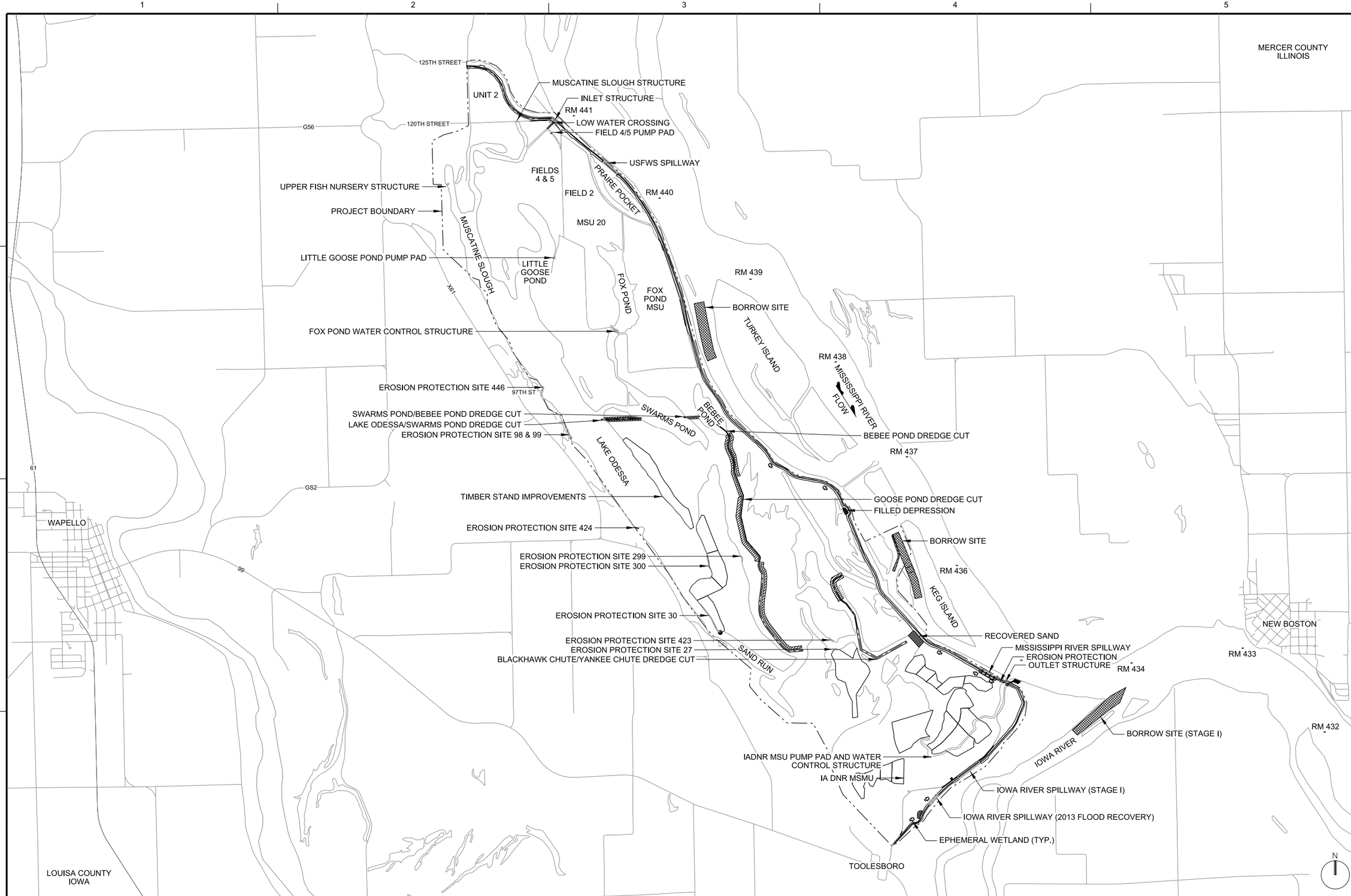

A1 SITE PLAN

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U.S. ARMY CORPS OF ENGINEERS
ROCK ISLAND DISTRICT
ROCK ISLAND, ILLINOIS

DESIGNED BY: KMM | DATE: | SOLICITATION NO.: | CONTRACT NO.:
DWN BY: LLH | CKD BY: | SUBMITTED BY:
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MISSISSIPPI RIVER BASIN
LAKE ODESSA

HABITAT REHABILITATION AND ENHANCEMENT
LOUISA COUNTY, IA
SITE PLAN

Sheet ID
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