

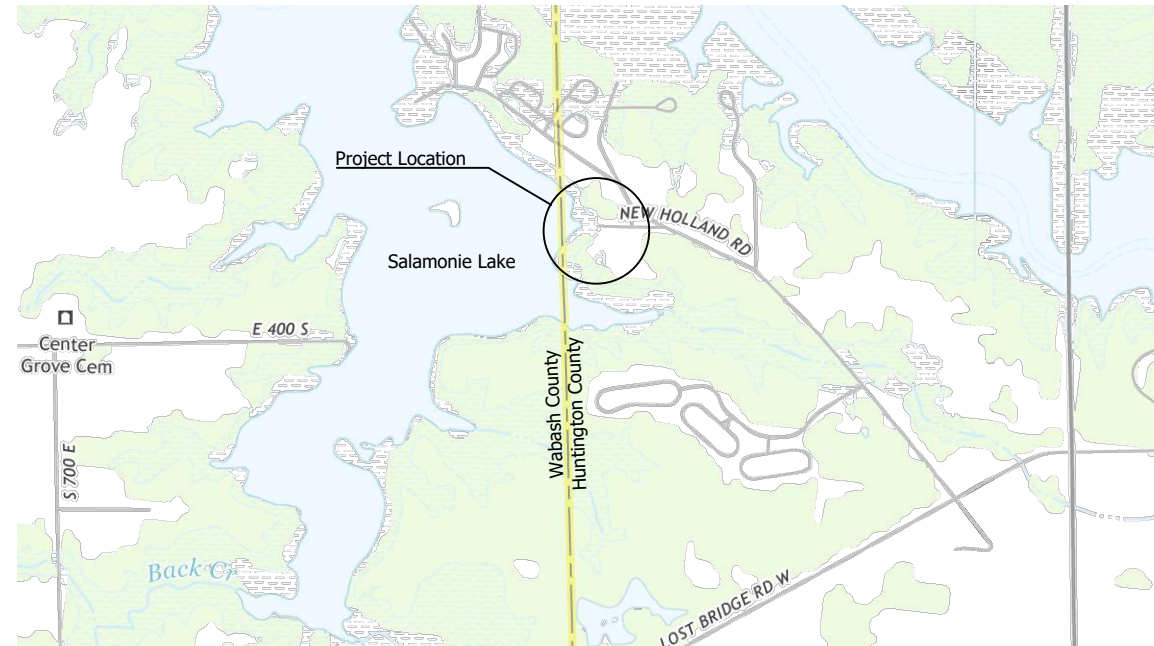
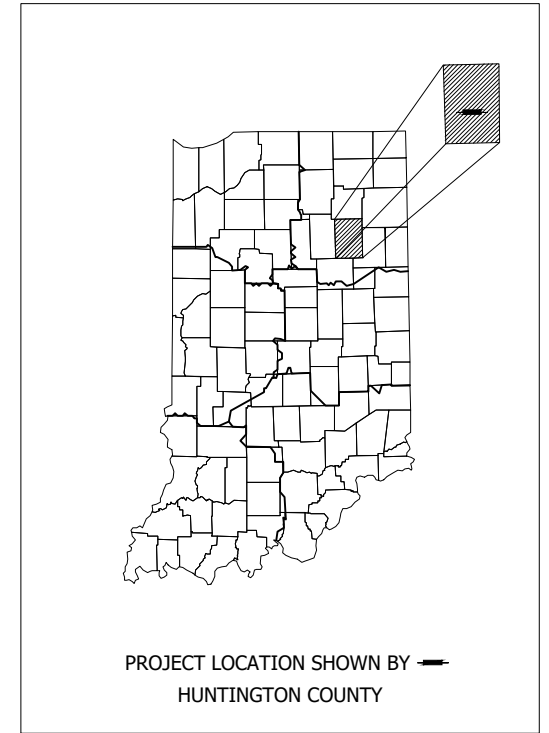
INDIANA DEPARTMENT OF ADMINISTRATION (IDOA)
 INDIANA DEPARTMENT OF NATURAL RESOURCES (IDNR)

PROJECT No. ENG2303763615
 LOST BRIDGE BOAT RAMP REPLACEMENT
 SALAMONIE RESERVOIR

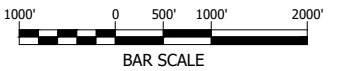
POLK TOWNSHIP, HUNTINGTON COUNTY, INDIANA

SECTION 21, T-27-N, R-8-E

DRAWING INDEX	
SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	LEGEND AND GENERAL NOTES
3	EXISTING CONDITIONS PLAN AND SURVEY CONTROL
4	SITE PLAN
5	CONSTRUCTION DETAILS
6	GRADING PLAN
7	JOINT LAYOUT PLAN
8	EROSION CONTROL PLAN



LOCATION MAP
 MIAMI COUNTY



U:\2022\202218 IDOA Lost Bridge\Cad\Plan_Set\Civil\221800TR_CS.dwg (TITLE SHEET)

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 525 W. WASHINGTON AVENUE
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 SIGNATURE DATE
















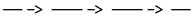

INDIANA DEPT. OF NATURAL RESOURCES
 LOST BRIDGE BOAT RAMP REPLACEMENT
 SALAMONIE RESERVOIR

TITLE SHEET

REVISIONS	HORIZONTAL SCALE BARSCALE	PROJECT NUMBER 202218.00
DRAWN: JAJ	VERTICAL SCALE	SHEETS
CHECKED: BRW	SURVEY BOOK	1 OF 8
	DATE FEBRUARY 2023	

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LEGEND:

-  Benchmark
-  Control Point
-  Soil Boring
-  Deciduous Tree
-  Coniferous Tree
-  Light Pole
-  Post
-  Power Pole
-  Storm Inlet/Catch Basin
-  Sign - Single Post
-  Sign - Double Post
-  Water Surface Elevation
-  Ordinary High Water Mark
-  Tree/Vegetation Line
-  Riprap
-  Centerline of Ditch
-  Proposed Centerline of Ditch

PUBLIC UTILITY

The existing utilities listed below and shown on these plans represent the best information available as obtained on our surveys. This information does not relieve the contractor of the responsibility to be satisfied as to its accuracy and the location of existing utilities.

GENERAL NOTES:

1. All items shown are existing unless otherwise indicated as required.
2. The contractor shall locate all underground utilities prior to starting work and shall conduct his operation in such manner as to insure that those utilities will not be disturbed.
3. Any damage to access roads, bridges, private or public property, and to existing structure not specified to be altered and caused by the contractor during construction shall be repaired at the expense of the contractor.
4. Prior to starting construction the contractor shall conduct check surveys on each aspect of the work as provided in the specifications. The results of the check surveys may affect the quantities.
5. If any errors become apparent, they shall be brought to the attention of the engineer prior to construction so that clarification or redesign may occur.
6. Contractor shall power wash all equipment upon arriving on site in order to decrease the spread of any invasive species.
7. Contractor shall not remove trees between April 1st to October 1st due to date restrictions with the endangered Indiana bat species.
8. Contractor shall seed and mulch all disturbed areas within the construction limits unless noted otherwise.
9. INDOT Standard Specification latest edition, shall be used with these plans.

INDIANA 811



Per Indiana State Law IC-8-1-26-16: It is against the law to excavate without notifying the underground location service two (2) working days before commencing work.

INDIANA 811
1-800-382-5544 OR CALL 811
24 HOURS A DAY 7 DAYS A WEEK

Note: Utility locations are shown based upon information (maps and paint marks) supplied by others, and there is not guarantee of the accuracy or completeness of said locations.

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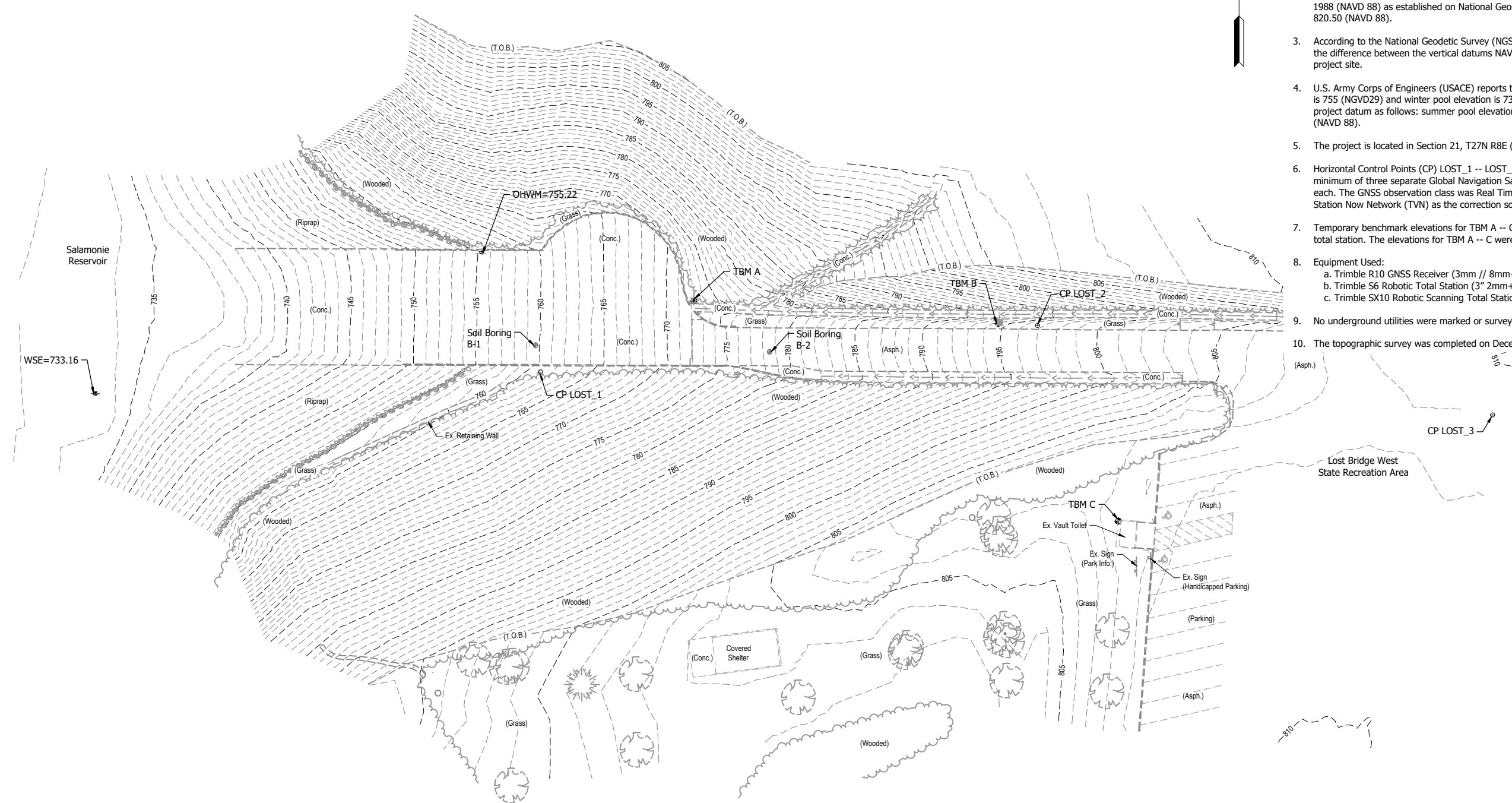
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INDIANA DEPT. OF NATURAL RESOURCES
LOST BRIDGE BOAT RAMP REPLACEMENT
SALAMONIE RESERVOIR

LEGEND AND GENERAL NOTES

REVISIONS	HORIZONTAL SCALE	PROJECT NUMBER
	VERTICAL SCALE	202218.00
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: BRW	DATE	2 OF 8
	FEBRUARY 2023	

U:\2022\202218 IDOA Lost Bridge\Cad\Plan_Set\Civil\221800TR_SP01.dwg (EXISTING CONDITIONS)



SURVEY NOTES:

1. Unless noted otherwise, all bearings, distances, areas, and coordinates shown hereon are based upon the Indiana State Plane Coordinate System (InSPC) East Zone (1301) per NAD 83 (2011) Epoch 2010.00 and are reported in U.S. Survey Feet and decimal parts thereof.
2. Unless noted otherwise, all elevations shown hereon are based upon the North American Vertical Datum of 1988 (NAVD 88) as established on National Geodetic Survey (NGS) marker U 203 (PID LA1737) elevation; 820.50 (NAVD 88).
3. According to the National Geodetic Survey (NGS) Coordinate Conversion and Transformation Tool (NCAT), the difference between the vertical datums NAVD 88 and NGVD 29 is - 0.42 feet at the location of this project site.
4. U.S. Army Corps of Engineers (USACE) reports the normal pool elevations as follows: summer pool elevation is 755 (NGVD29) and winter pool elevation is 730 (NGVD29). The normal pool elevations equate to this project datum as follows: summer pool elevation is 754.6 (NAVD 88) and winter pool elevation is 729.6 (NAVD 88).
5. The project is located in Section 21, T27N R8E (Polk Twp.), Huntington County, State of Indiana.
6. Horizontal Control Points (CP) LOST_1 -- LOST_3 were established by the simple mean average of a minimum of three separate Global Navigation Satellite System (GNSS) observations averaging 304 epochs each. The GNSS observation class was Real Time Kinematic (RTK) and utilized the Trimble Virtual Reference Station Now Network (TVN) as the correction source.
7. Temporary benchmark elevations for TBM A -- C were established by trigonometric leveling with a Trimble S6 total station. The elevations for TBM A -- C were based upon the GNSS established elevation of CP LOST_3.
8. Equipment Used:
 - a. Trimble R10 GNSS Receiver (3mm // 8mm+1ppm RMS)
 - b. Trimble S6 Robotic Total Station (3" 2mm+2ppm)
 - c. Trimble SX10 Robotic Scanning Total Station (1" 2mm+1.5ppm)
9. No underground utilities were marked or surveyed.
10. The topographic survey was completed on December 29, 2023.

HORIZONTAL CONTROL (INSPC – EAST ZONE // U.S. FEET)

ID	Northing	Easting	Latitude	Longitude	Elevation	Marker
LOST_1	2012153.9094	335621.9317	N40°46'21.34388"	W85°38'22.01511"	760.91	1/2x18" Rebar w/ Cap Stamped 'LAWSON-FISHER'
LOST_2	2012178.2113	335883.6231	N40°46'21.58320"	W85°38'18.61361"	796.66	1/2x18" Rebar w/ Cap Stamped 'LAWSON-FISHER'
LOST_3	2012131.2320	336123.2212	N40°46'21.11821"	W85°38'15.49957"	808.47	1/2x18" Rebar w/ Cap Stamped 'LAWSON-FISHER'

Control point elevations are provided for reference. It should be understood that the markers used are subject to vertical movement due to frost heave, vehicle movements and other environmental factors. All horizontal control point elevations are superseded by bench mark elevations.

VERTICAL CONTROL (NAVD 88)

ID	Elevation	Remarks	Northing	Easting	Latitude	Longitude
TBM A	774.26	Cotton Gin Gear; S Face Lt. P. (55774); 1.3' Above Grnd. Level	2012191.3	335702.8	N40°46'21.71"	W85°38'20.96"
TBM B	795.97	Cotton Gin Gear; S Face Pwp. (55772); 1.5' Above Grnd. Level	2012179.4	335863.2	N40°46'21.60"	W85°38'18.88"
TBM C	808.99	1 3/8" Cut Circle; N.W. Cor. Conc. Fdn. Vault Toilet	2012075.5	335926.2	N40°46'20.57"	W85°38'18.06"

Bench mark horizontal coordinates are provided for reference. It should be understood that the method and means used to establish the horizontal coordinates of the bench marks is not the same class and standard as those used to establish the horizontal control points. The coordinates only serve as an aid in locating the marks and are superseded by horizontal control point coordinates.



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No. 12100459
STATE OF INDIANA

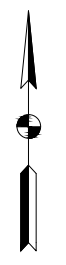
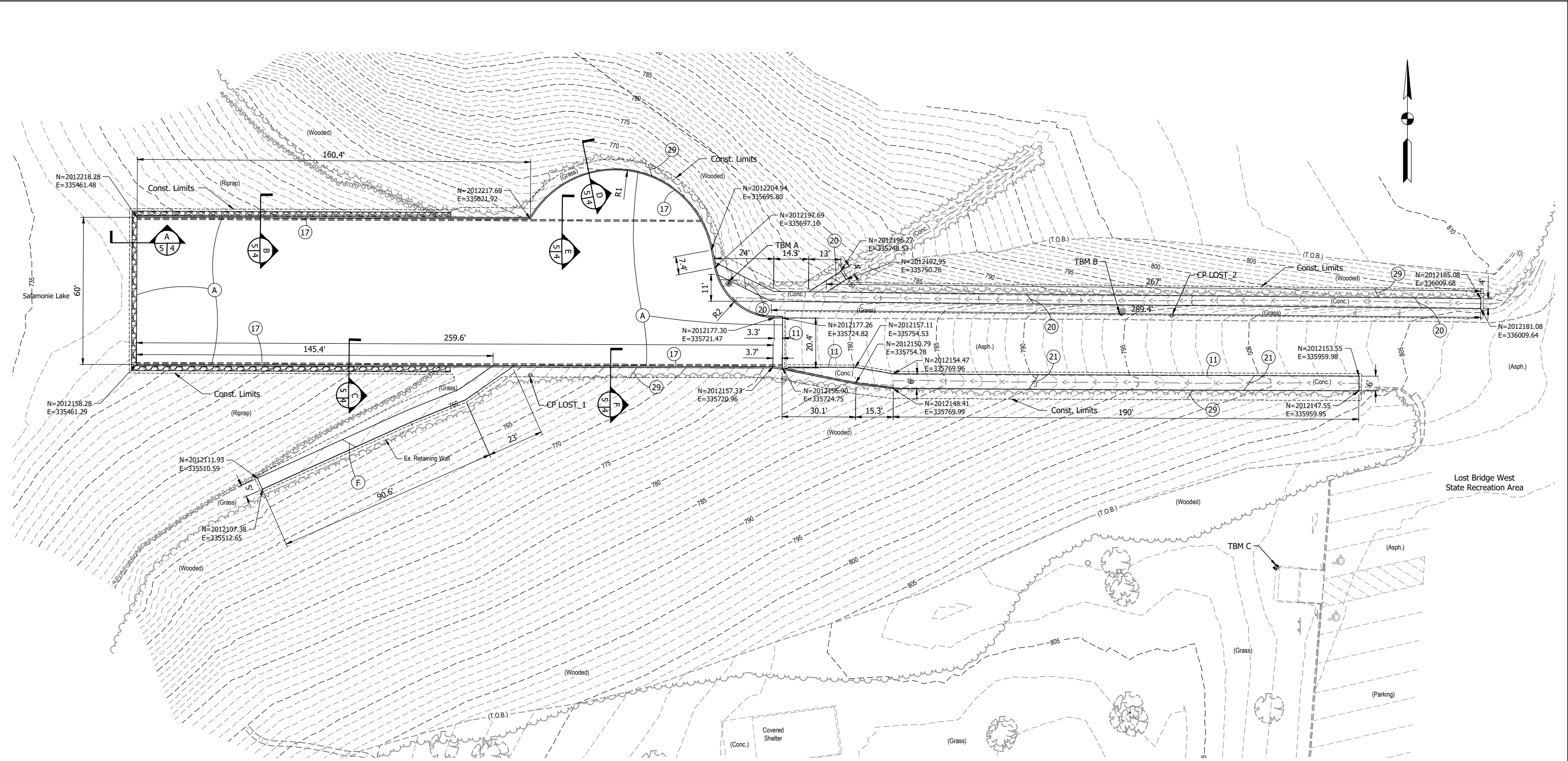
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8/23/24
DATE

INDIANA DEPT. OF NATURAL RESOURCES
LOST BRIDGE BOAT RAMP REPLACEMENT
SALAMONIE RESERVOIR

EXISTING CONDITIONS AND
SURVEY CONTROL

REVISIONS	HORIZONTAL SCALE 1" = 30' VERTICAL SCALE	PROJECT NUMBER 202218.00
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: BRW	DATE FEBRUARY 2023	3 OF 8

U:\2022\202218 IDOA Lost Bridge\Cad\Plan_Set\Civil\221800TR_SPO2.dwg (SITE PLAN)



NOTE:
All existing areas of concrete pavement, concrete curb, concrete sidewalk, and concrete paved side ditch shall be removed to accommodate proposed construction within the construction limits.



	NORTHING	EASTING	RADIUS
R1	2012197.57	335656.49	40'
R2	2012202.30	335721.73	25'

- LEGEND:**
- (A) PCCP, 6" on Subbase for PCCP
 - (F) Concrete Sidewalk, 4"
 - (11) Sawcut
 - (17) Concrete Curb, Integral
 - (20) Modified Paved Side Ditch, B
 - (21) Modified Paved Side Ditch, D
 - (29) Mulched Seeding, Type R

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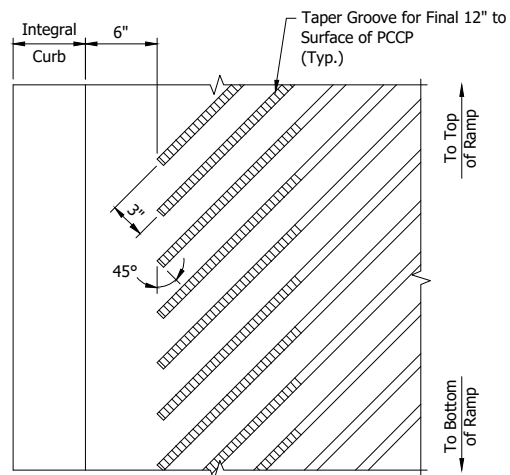


Blake Warner 8/23/24
SIGNATURE DATE

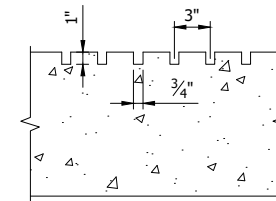
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LOST BRIDGE BOAT RAMP REPLACEMENT
SALAMONIE RESERVOIR
SITE PLAN

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 202218.00
DRAWN: JAJ	VERTICAL SCALE	SHEETS
CHECKED: BRW	DATE FEBRUARY 2023	4 OF 8

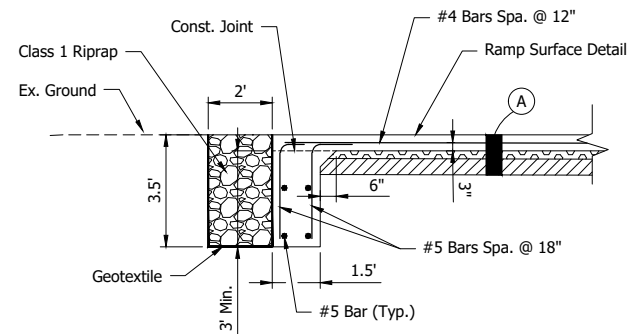
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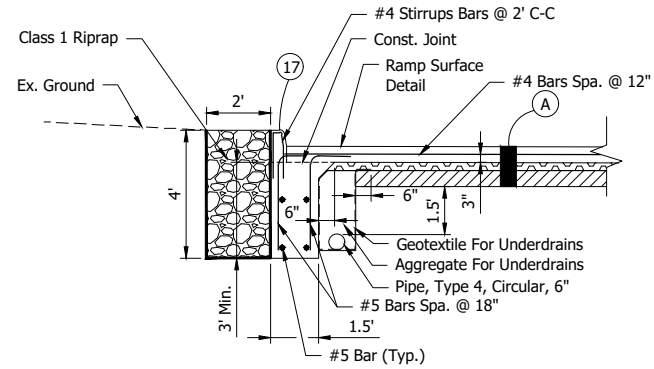
RAMP GROOVE PLAN
Scale: 1 1/2" = 1'-0"



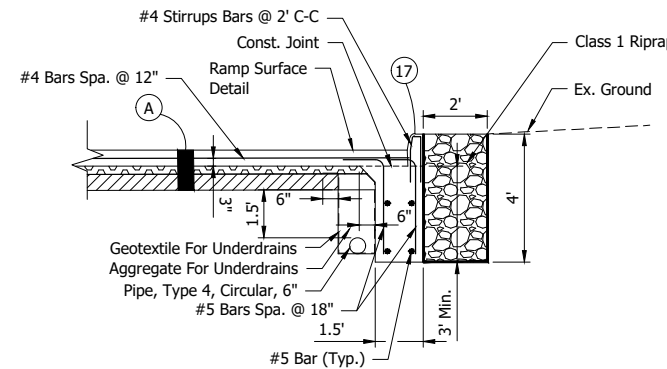
RAMP GROOVE DETAIL
Scale: 1 1/2" = 1'-0"



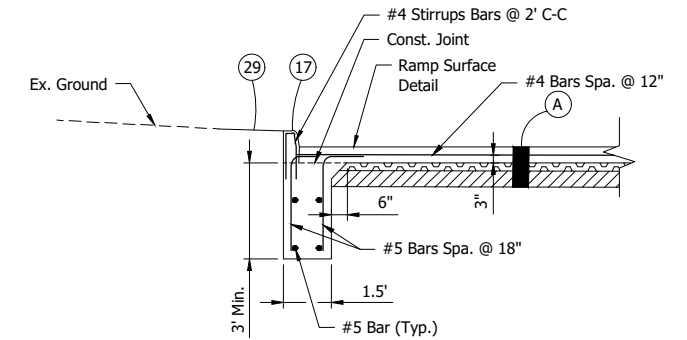
A SECTION
Scale: 1" = 3'



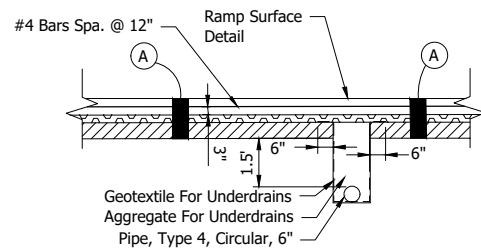
B SECTION
Scale: 1" = 3'



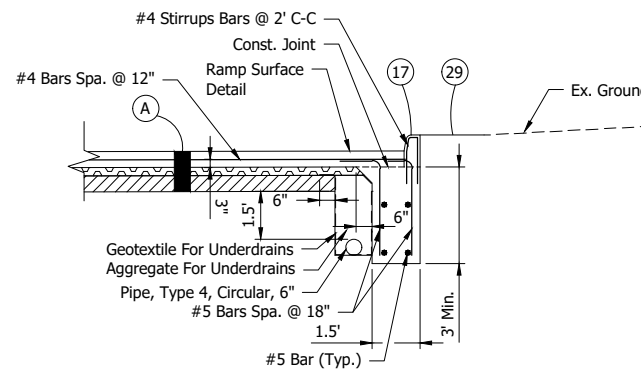
C SECTION
Scale: 1" = 3'



D SECTION
Scale: 1" = 3'



E SECTION
Scale: 1" = 3'



F SECTION
Scale: 1" = 3'

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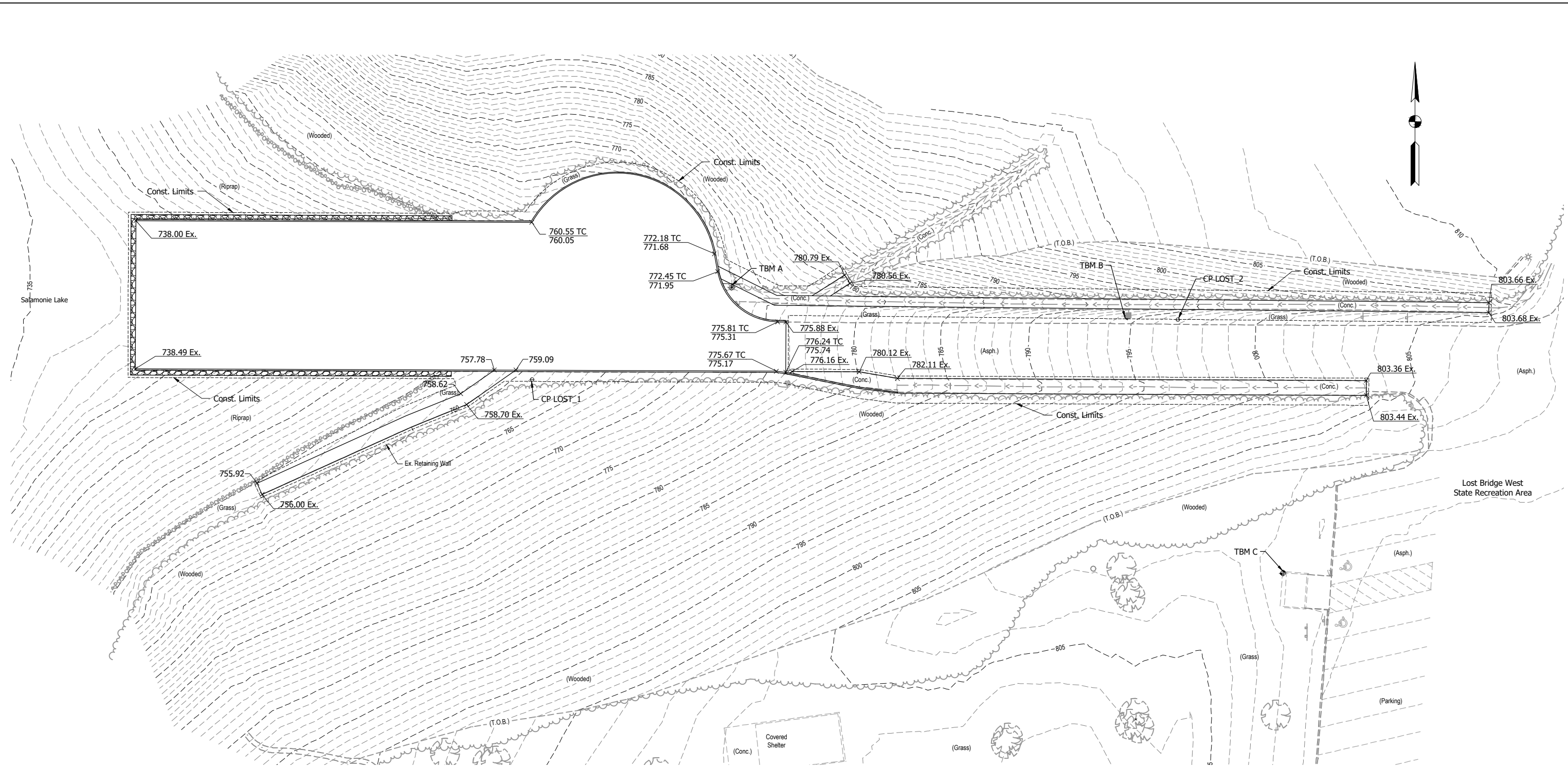
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REGISTERED PROFESSIONAL ENGINEER
No. 12100459
STATE OF INDIANA

Blake Warner
SIGNATURE
8/23/24
DATE

INDIANA DEPT. OF NATURAL RESOURCES
LOST BRIDGE BOAT RAMP REPLACEMENT
SALAMONIE RESERVOIR
CONSTRUCTION DETAILS

REVISIONS	HORIZONTAL SCALE AS NOTED	PROJECT NUMBER 202218.00
	VERTICAL SCALE	
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: BRW	DATE FEBRUARY 2023	5 OF 8

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- LEGEND:**
- 700 — Proposed Contour
 - - 700 - - Existing Contour
 - x 700 TC Proposed Spot Elevation at Top of Curb
 - x 700 Proposed Spot Elevation
 - x 700 Ex. Existing Spot Elevation



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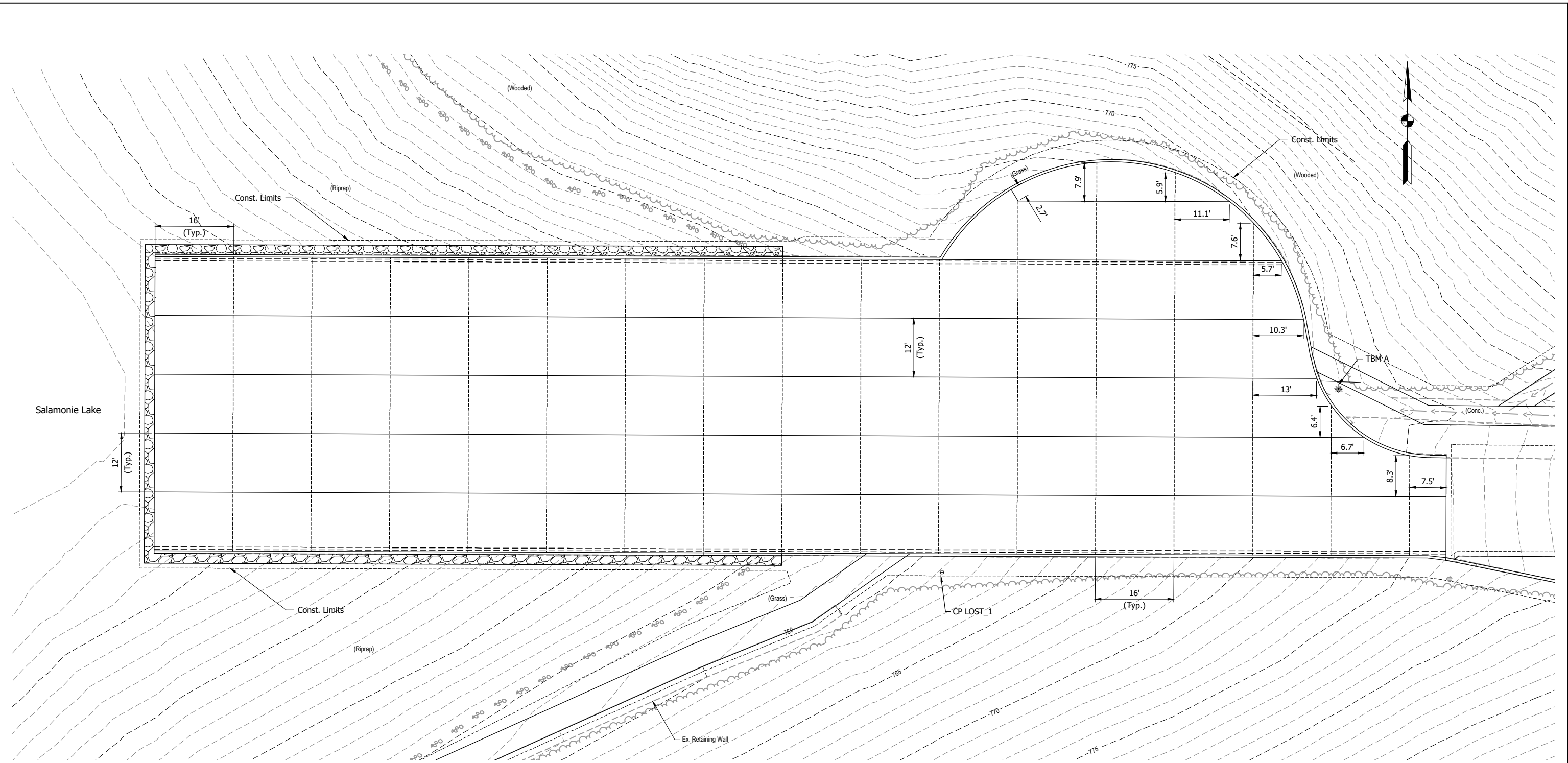
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INDIANA DEPT. OF NATURAL RESOURCES
LOST BRIDGE BOAT RAMP REPLACEMENT
SALAMONIE RESERVOIR
GRADING PLAN

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 202218.00
VERTICAL SCALE	SURVEY BOOK	SHEETS
DRAWN: JAJ	DATE	6 OF 8
CHECKED: BRW	FEBRUARY 2023	

U:\2022\202218 IDOA Lost Bridge\Cad\Plan_Set\Civil\221800TR_PL01.dwg (JOINT LAYOUT PLAN)



LEGEND:
 - - - - - D-1 Contraction Joint
 ————— Longitudinal Joint

NOTE:
 Joints shall be in accordance with INDOT Standard Drawings E 503-CCPJ-01 thru E 503-CCPJ-05, except that backer rods shall not be used.



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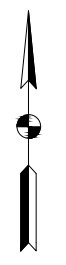
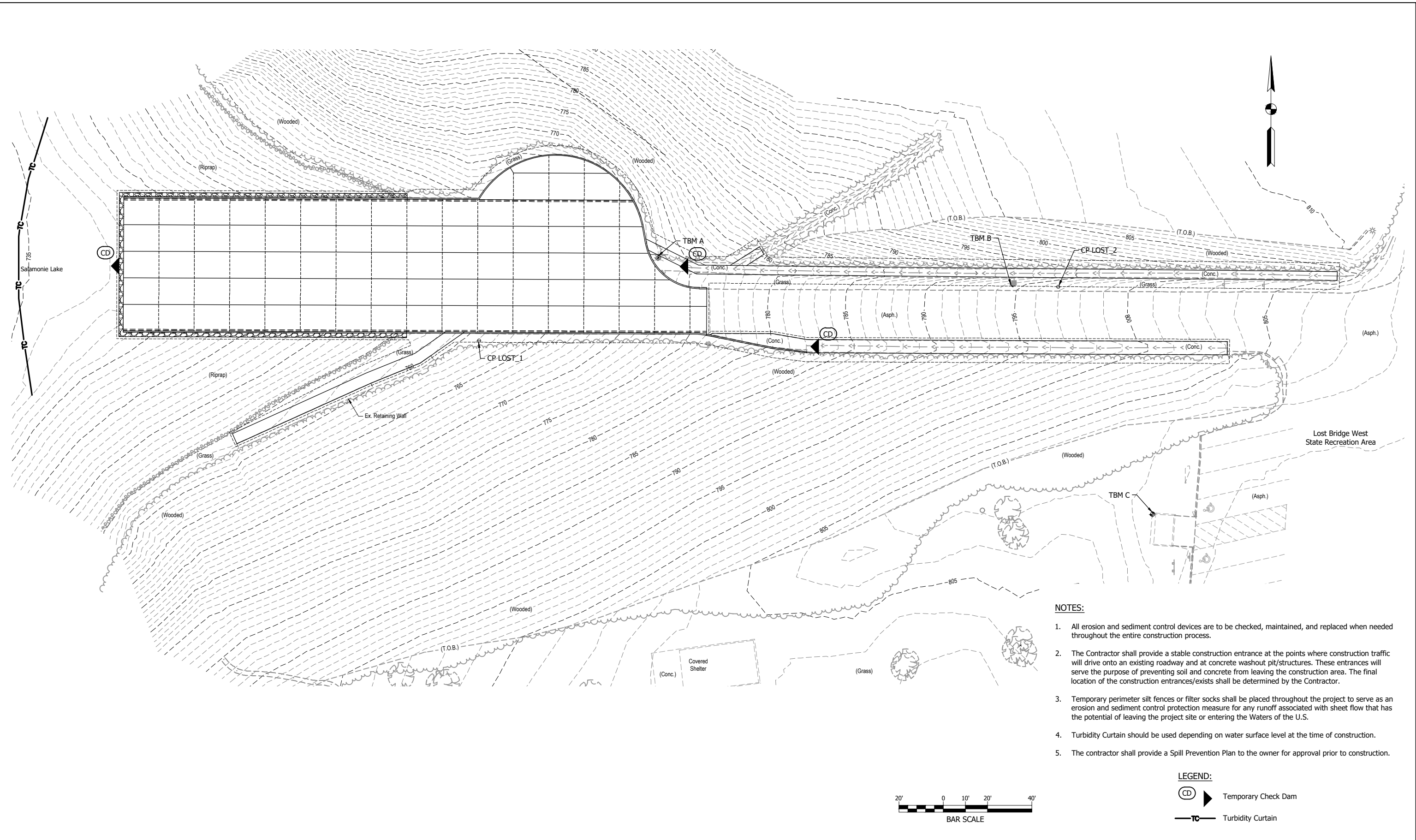
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INDIANA DEPT. OF NATURAL RESOURCES
 LOST BRIDGE BOAT RAMP REPLACEMENT
 SALAMONIE RESERVOIR
 JOINT LAYOUT PLAN

REVISIONS	HORIZONTAL SCALE 1" = 10'	PROJECT NUMBER 202218.00
DRAWN: JAJ	VERTICAL SCALE	SHEETS
CHECKED: BRW	SURVEY BOOK	7 OF 8
	DATE FEBRUARY 2023	

U:\2022\202218 IDOA Lost Bridge\Cad\Plan_Set\Civil\221800TR_EC01.dwg (EROSION CONTROL)



NOTES:

1. All erosion and sediment control devices are to be checked, maintained, and replaced when needed throughout the entire construction process.
2. The Contractor shall provide a stable construction entrance at the points where construction traffic will drive onto an existing roadway and at concrete washout pit/structures. These entrances will serve the purpose of preventing soil and concrete from leaving the construction area. The final location of the construction entrances/exits shall be determined by the Contractor.
3. Temporary perimeter silt fences or filter socks shall be placed throughout the project to serve as an erosion and sediment control protection measure for any runoff associated with sheet flow that has the potential of leaving the project site or entering the Waters of the U.S.
4. Turbidity Curtain should be used depending on water surface level at the time of construction.
5. The contractor shall provide a Spill Prevention Plan to the owner for approval prior to construction.

LEGEND:

- Temporary Check Dam
- Turbidity Curtain



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INDIANA DEPT. OF NATURAL RESOURCES
LOST BRIDGE BOAT RAMP REPLACEMENT
SALAMONIE RESERVOIR
EROSION CONTROL PLAN

REVISIONS	HORIZONTAL SCALE 1" = 20'	PROJECT NUMBER 202218.00
	VERTICAL SCALE	
DRAWN: JAJ	SURVEY BOOK	SHEETS
CHECKED: BRW	DATE FEBRUARY 2023	8 OF 8