

DEPARTMENT OF NATURAL RESOURCES

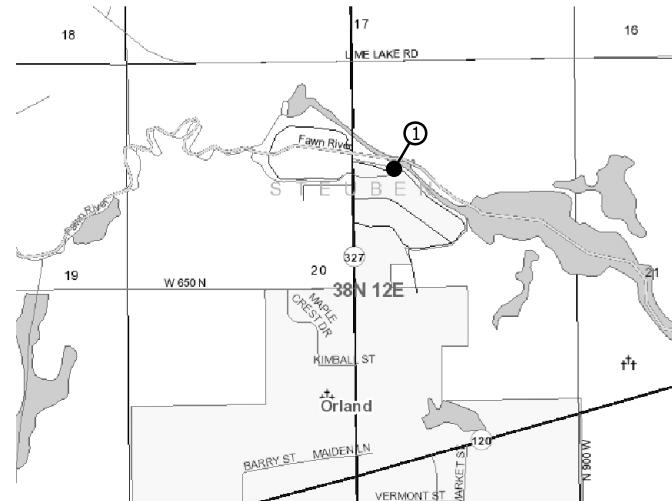
SMALL STRUCTURE MAINTENANCE AND REPAIR

PROJECT NO. ENG2502861255

PROJECT DESCRIPTION
Small Structure Repair in Steuben CountyPROJECT LOCATION
Fawn River Fish Hatchery-Culvert on Park/Service Rd. over Fawn River Bypass Creek

GROSS LENGTH 0.01 MI.

NET LENGTH 0.01 MI.



TRAFFIC DATA

A.A.D.T. (2023)	N/A
A.A.D.T. PROJ. (2043)	N/A
D.H.V. (2043)	N/A
DIRECTIONAL DISTRIBUTION	N/A
TRUCKS	N/A
	N/A

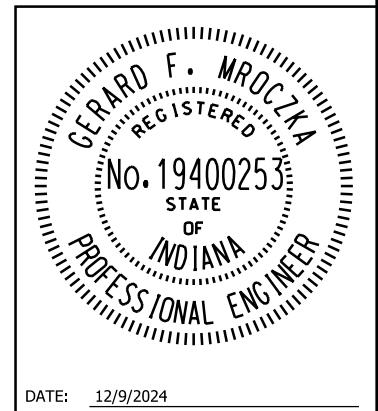
DESIGN DATA

DESIGN SPEED	30 MPH
PROJECT DESIGN CRITERIA	PARTIAL 3R
FUNCTIONAL CLASS	LOCAL ROAD
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

LATITUDE: 41°44'26" N
LONGITUDE: 85°10'10" W

PLANS PREPARED BY: AECOM

PHONE NUMBER: 317-532-5400

CERTIFIED BY: 

RECOMMENDED FOR LETTING: DEPARTMENT OF NATURAL RESOURCES

DATE

INDEX, GENERAL NOTES & UTILITIES INFORMATION SHEET

INDEX	
1	TITLE SHEET
2	INDEX, GENERAL NOTES & UTILITIES INFORMATION SHEET
3	MAINTENANCE OF TRAFFIC
4	EROSION CONTROL
5-6	PLAN SHEET
7	EXISTING STRUCTURE PICTURES
8	SUMMARY

UTILITIES
<p>WATER Town of Orland, Water Works April Sanders orlandtownclerk@gmail.com</p>



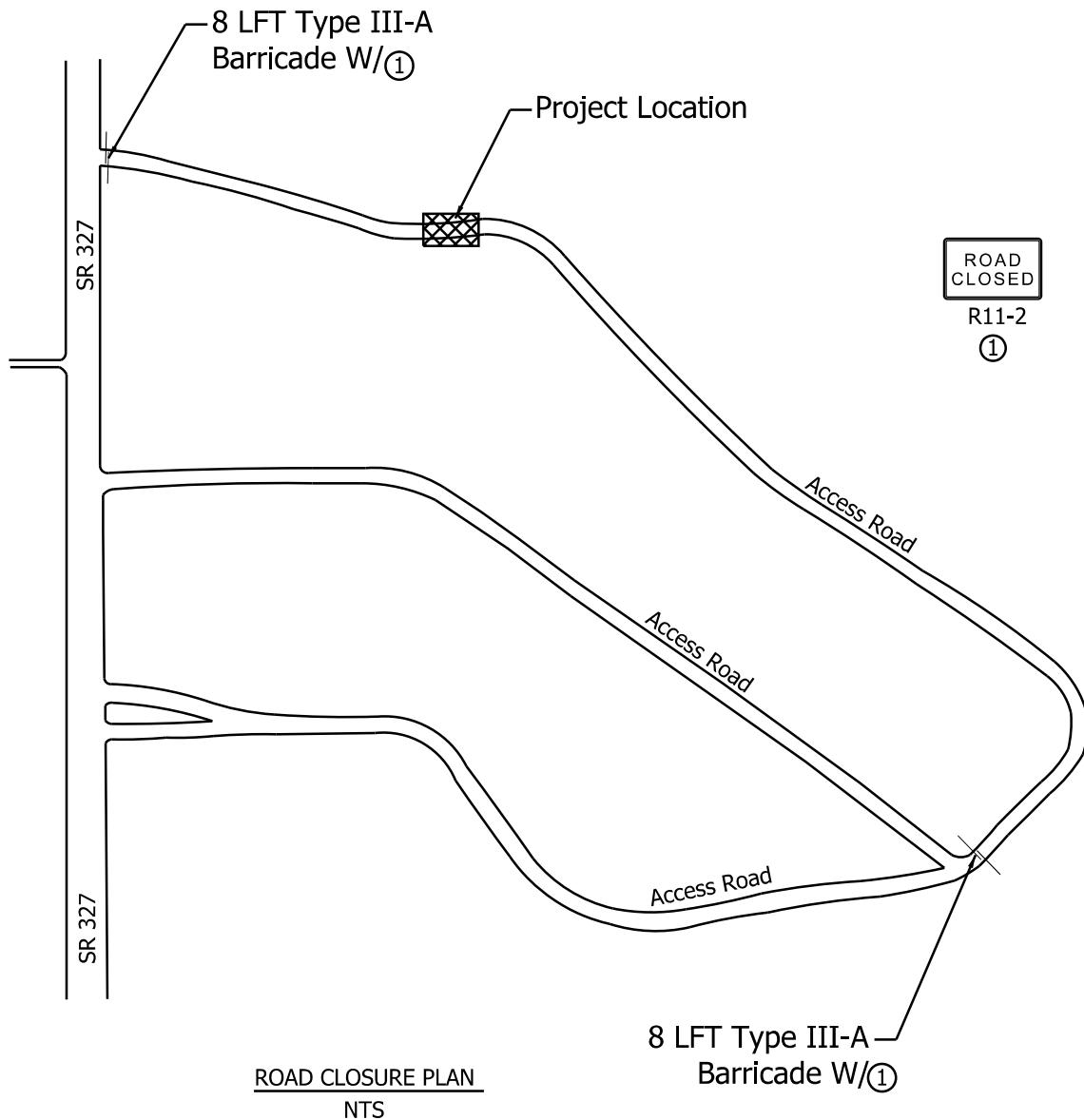
INDIANA UNDERGROUND
 1-800-382-5544 OR CALL 811
 24 HOURS A DAY 7 DAYS A WEEK

Note to Reviewer:
 Gathering of Utility Information is Ongoing.

CULVERT LOCATION INFORMATION TABLE							
Str.	Project No.	Culvert Asset ID (Structure Type)	Route and Crossing	Location	Route	County	Latitude/Longitude
1	ENG2502861255	CV P000-076-Fawn-2 (R.C. Slab on R.C. Beams)	Park/Service Rd. over Fawn River Bypass Creek	Fawn River Fish Hatchery (East of SR 327)	Park/Service Rd.	Steuben	Lat: 41°44'26" N Long: 85°10'10" W

Recommended for Approval:	
Date: 12/9/2024	

MAINTENANCE OF TRAFFIC - ROAD CLOSURE



LEGEND

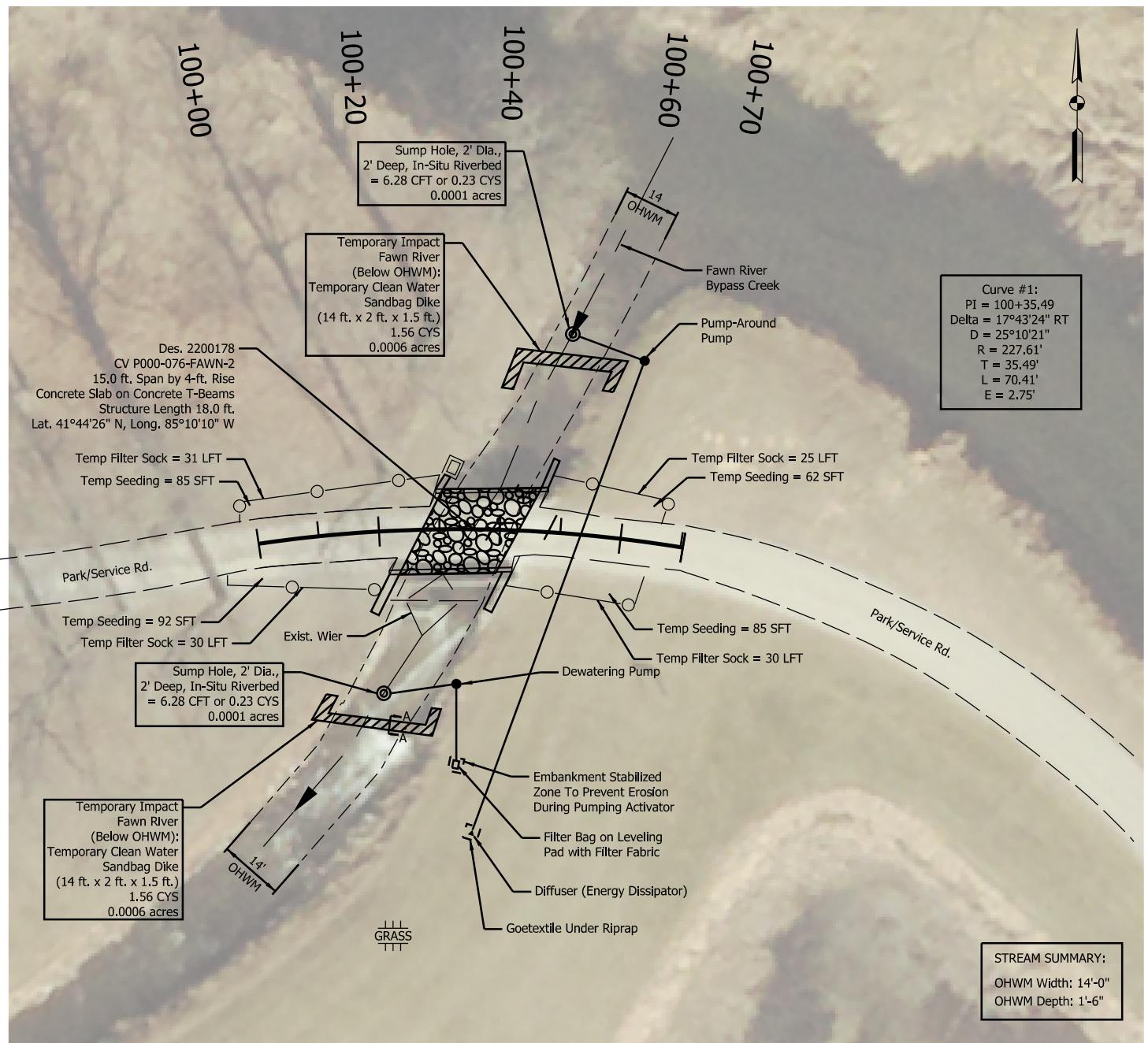
- Type III-A Barricade
- Construction Area

MAINTENANCE OF TRAFFIC QUANTITIES		
Pay Item	Unit	Quantity
Maintaining Traffic	LS	1
Barricade, Type III-A	LFT	16
Road Closure Sign Assembly	EACH	2

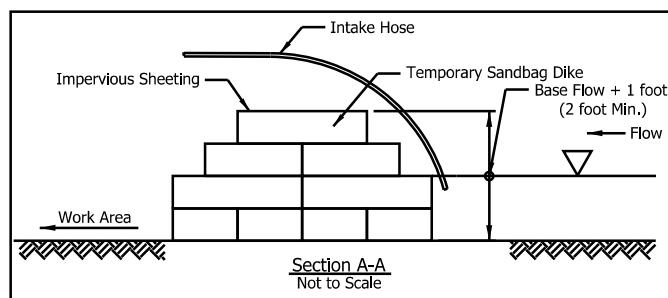
GERARD F. MROCKA
REGISTERED
No. 19400253
STATE OF
INDIANA
PROFESSIONAL ENGINEER

Recommended for Approval:
Gerard F. Mrocka
Date: 12/9/2024

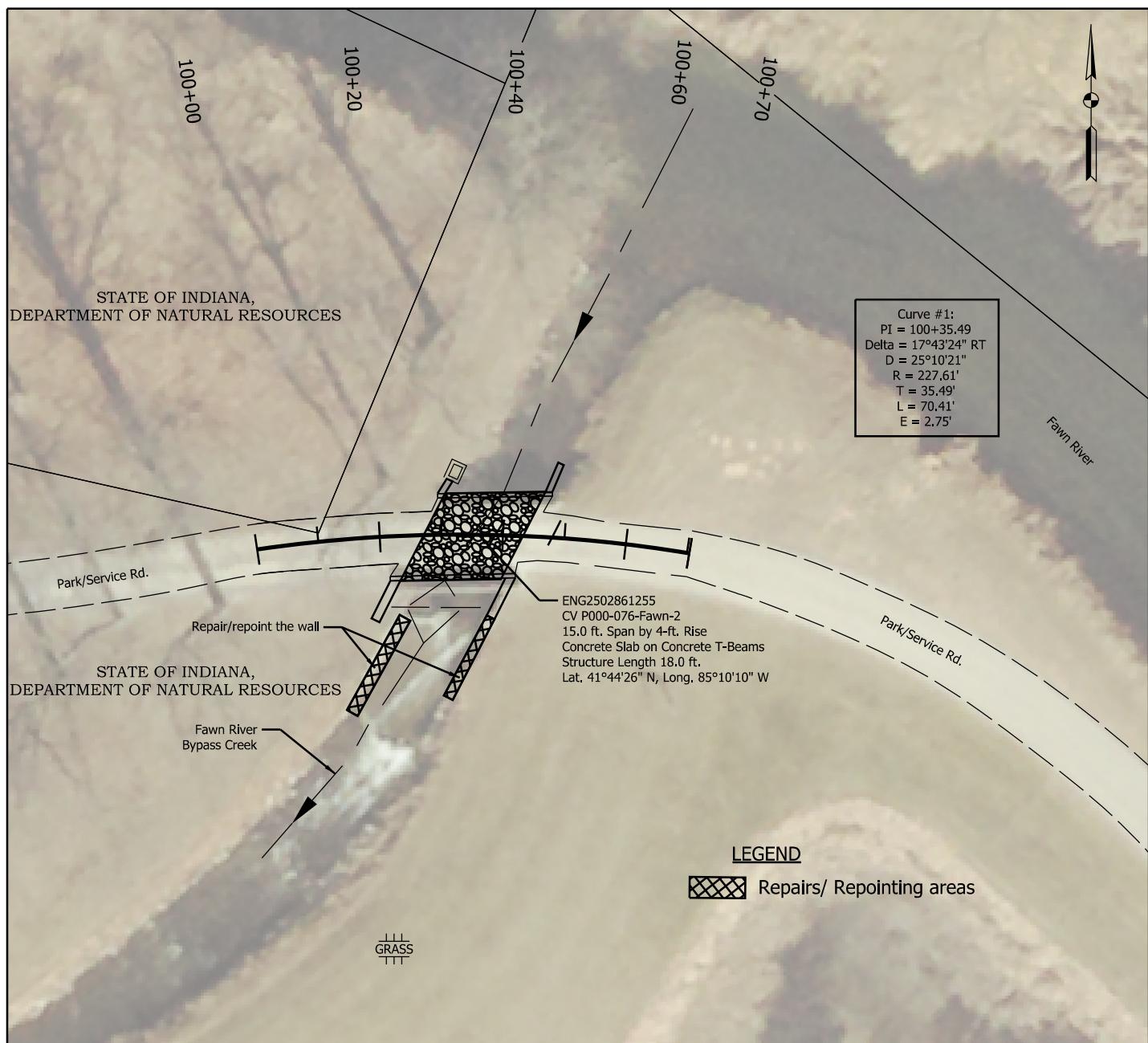
EROSION CONTROL



LEGEND



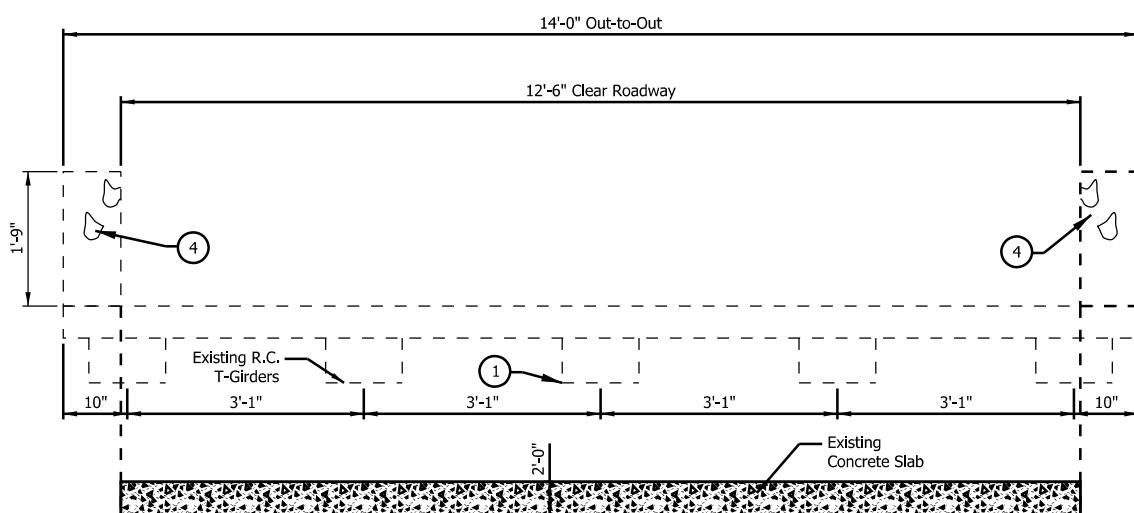
GENERAL PLAN



AERIAL
Not To Scale

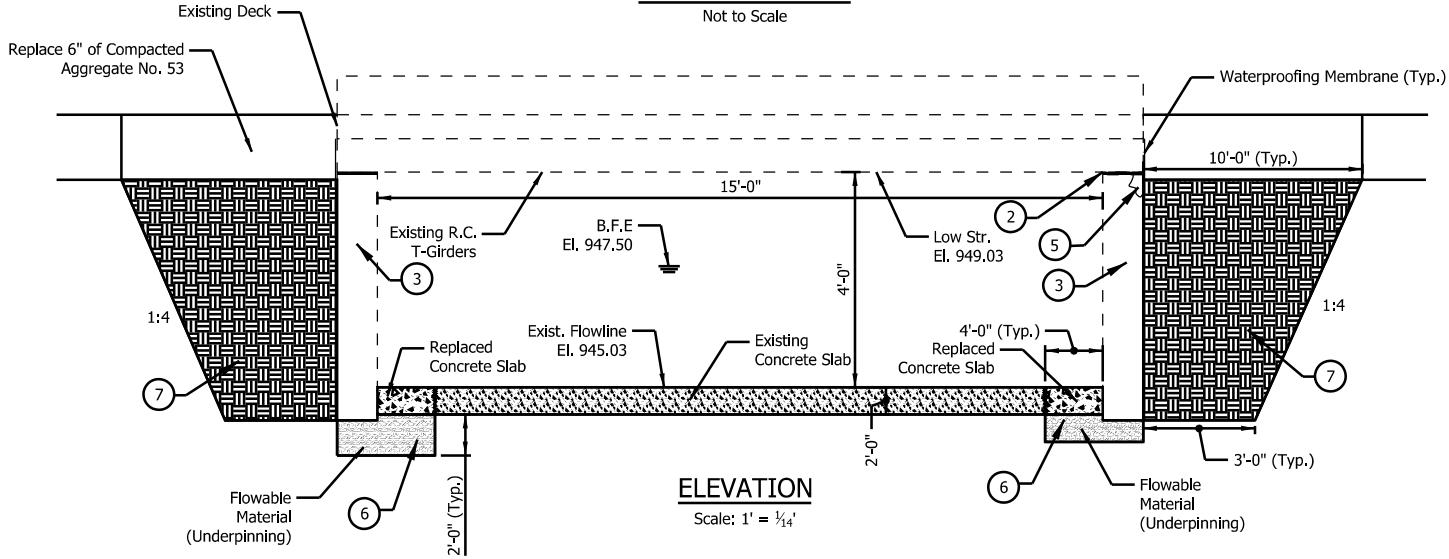


GENERAL PLAN



TYPICAL SECTION

Not to Scale



LEGEND

- 1 Patch spall with exposed reinforcement at west abutment on Beam 3.
- 2 Repair east abutment leveling pad with epoxy injections.
- 3 Remove mortar facing at east and west abutments and perform work without the use of mechanical tools. Perform repointing at the east and west structures. Work is to be performed in small areas of 2' x 2' to prevent cobble stones from falling from the wall. High strength mortar is to be used. A vertical or overhead material to be used as per INDOT Specifications. Mechanical Tools Not Allowed with Work Associated with Repointing Masonry.
- 4 Perform repointing on barriers. Work to be performed without the use of mechanical tools.
- 5 Patch spall at northeast corner of east abutment.
- 6 Provide temporary shoring for superstructure. Estimated unfactored dead load: 7 kips per beam end Excavate a minimum of 2 ft below channel bed and determine if the bottom of the abutment wall is visible. If the bottom of the abutment wall is deeper than 2 ft, and the condition of the wall is satisfactory, no need for underpinning. Contractor shall ensure the temporary shoring location is set away from any channel bed excavation.
- 7 Perform excavation behind abutment walls to check for deteriorated mortar. Mortar to be replaced with new material. Waterproofing material to be used to cover the exposed backwall and fill voids to prevent water infiltration. Complete all wall patching on both sides prior to backfilling.

NOTE:
 1. Repointing Masonry In. Structures estimate is approximately 120 SFT for both abutments.
 2. Existing elevations and dimensions shall be checked and verified by the contractor.

Sequence of Construction:
 1. Cofferdam installation
 2. Prop and temporarily support the existing superstructure
 3. Remove backfill
 4. Remove existing concrete slab at bottom of the channel, excavate and underpin.
 5. Repair abutments.

ANUP SHRESTHA
REGISTERED
No. 12100906
STATE OF
INDIANA
PROFESSIONAL ENGINEER

Recommended for Approval:
Anup Shrestha
Date:
12/9/2024

EXISTING STRUCTURE PICTURES



1. Side elevation Looking North. Some minor efflorescence visible along coping.



2. Looking West, efflorescence visible along deck coping. Some deteriorated mortar visible along end of abutment wall. Outside face of barrier wall visible, both barriers to be repaired by repointing.



3. Side Elevation Looking North. Some minor efflorescence visible along deck coping. Outside face of barrier wall visible, both barriers to be repaired by repointing.



4. Looking South downstream, top of the barrier wall is visible.



5. Looking west, afflorescence visible along deck coping. Some deteriorated mortar visible along length of abutment wall.

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A N U P S H R E S T H A R E G I S T E R E D N o . 1 2 1 0 0 9 0 6 S T A T E O F I N D I A N A P R O F E S S I O N A L E N G I N E E R	
Recommended for Approval: Anup Shrestha	
Date:	12/9/2024

SUMMARY SHEET

