



Indiana Department of Environmental Management Office of Water Quality Wetlands Section

Publication Date:
March 22, 2024

Closing Date:
April 12, 2024

IDEM ID Number:
2024-57-2-EJW-A

Corps of Engineers ID Number:
LRE-2023-00598-102-N24

PUBLIC NOTICE

To all interested parties:

This letter shall serve as a formal notice of the receipt of an application for **Section 401 Water Quality Certification** by the Indiana Department of Environmental Management (IDEM). The purpose of the notice is to inform the public of active applications submitted for water quality certification under Section 401 of the Clean Water Act (33 U.S.C. § 1341) and to solicit comments and information on any impacts to water quality related to the proposed project. IDEM will evaluate whether the project complies with Indiana's water quality standards as set forth at 327 IAC 2.

- | | | | |
|--------------------------------|---|------------------|--|
| 1. Applicant: | Patrick Zaharako
City of Fort Wayne Public Works
200 E Berry St.
Fort Wayne, IN 46802 | 2. Agent: | Heather Winebrinner
USI Consultants, Inc.
8415 E. 56 th St.
Indianapolis, IN 46216 |
| 3. Project location: | Fort Wayne Bridge No. 358 carrying Bluffton Road over the St. Mary's River to W Oakdale Drive.
Latitude: 41.052067 Longitude: -85.157611 | | |
| 4. Affected waterbody: | St. Mary's River | | |
| 5. Project Description: | Rehabilitating Fort Wayne Bridge No. 358 due to existing shear cracks in multiple beams across several spans and supports of the current bridge. Beam reconstruction, replacement of the superstructure, and placement of aggregate for erosion and scour protection will be performed. The new structure will be a five (5) span continuous composite prestressed concrete I-beam bridge with a 28-foot clear roadway width. | | |

Permanent impacts below the Ordinary High-Water Mark of St. Mary's River for the placement of rip rap total 121.5 linear feet, or 0.129 acres. A temporary causeway within St. Mary's River is required for construction with temporary impacts totaling 129.5 linear feet, or 0.510 acres. The causeway is comprised of 21, 5-foot diameter pipes to allow 50% of waterway opening while it is in place for 15 months. Additionally, 31 linear feet, or 0.0012 acres, of UNT to St. Mary's River will be permanently impacted by encapsulation via a 24" culvert.

Permanent impacts from rip rap placement and encapsulation total 0.1302 acres of stream fill, which will be mitigated for at a 1:1 ratio through IDNR's In-Lieu Fee Program.
Additional information may be found online at <https://www.in.gov/idem/5474.htm>

Comment period: Any person or entity who wishes to submit comments or information relevant to the aforementioned project may do so by the closing date noted above. Only comments or information related to water quality or potential impacts of the project on water quality can be considered by IDEM in the water quality certification review process.

Public Hearing: Any person may submit a written request that a public hearing be held to consider issues related to water quality in connection with the project detailed in this notice. The request for a hearing should be submitted within the comment period to be considered timely. The request should also state the reason for the public hearing as specifically as possible to assist IDEM in determining whether a public hearing is warranted.

Questions?

Additional information may be obtained from Evan White, Project Manager, by phone at 317-671-6698 or by e-mail at evwhite@idem.in.gov. Please address all correspondence to the project manager and reference the IDEM project identification number listed on this notice. Indicate if you wish to receive a copy of IDEM's final decision. Written comments and inquiries may be forwarded to -

Indiana Department of Environmental Management
100 North Senate Avenue
MC65-42 WQS IGCN 1255
Indianapolis, Indiana 46204-2251 FAX: 317/232-8406



APPLICATION FOR AUTHORIZATION TO DISCHARGE DREDGED OR FILL MATERIAL TO ISOLATED WETLANDS AND/OR WATERS OF THE STATE

State Form 51821 (R2 / 11-15)

Indiana Department of Environmental Management

- INSTRUCTIONS:**
1. Read the instruction sheet before filling out this form.
 2. You must complete all applicable sections of this form

1. Applicant Information		2. Agent Information	
Name of Applicant City of Fort Wayne Public Works		Name of Agent USI Consultants, Inc.	
Mailing address (<i>Street/ PO Box/ Rural Route, City, State, ZIP Code</i>) 200 E Berry St. Fort Wayne, IN 46802		Mailing address (<i>Street/ PO Box/ Rural Route, City, State, ZIP Code</i>) 8415 E. 56th St. Indianapolis, IN 46216	
Daytime Telephone Number 260-427-1172		Daytime Telephone Number 317-946-2217	
Fax Number N/A		Fax Number N/A	
E-mail address (<i>optional</i>) patrick.zaharako@cityoffortwayne.org		E-mail address (<i>optional</i>) hwinebrinner@usiconsultants.com	
Contact person (<i>required</i>) Patrick Zaharako, City Engineer		Contact person Heather Winebrinner	
3. Project / Tract Location			
County Allen		Nearest city or town Fort Wayne	
U.S.G.S. Quadrangle map name (<i>Topographic map</i>) Fort Wayne West		Project street address (<i>if applicable</i>) Adjacent to 1502 Bluffton Rd., Fort Wayne. IN 46807	
Quarter SE1/4,NE1/4,NE1/4,NE1/4	Section 15	Township 30 North	Range 12 East
Type of aquatic resource(s) to be impacted (<i>Attach Worksheet One.</i>) St. Marys River (perennial river), UNT1 to St. Marys River (ephemeral stream)		Project name or title (<i>if applicable</i>) Fort Wayne Bridge No. 358 Rehabilitation (Des. No. 1902834)	
Other location descriptions or driving directions From the I-465 and I-69 interchange, take I-69 N for 101 miles, then take exit 302 for Jefferson Blvd toward US-24 W and follow signs for Fort Wayne. In 0.9 mile turn right onto Engle Rd and turn left onto Bluffton Rd after 3.7 miles and then take Bluffton Rd to the project area over St. Marys River.			
4. Project Purpose and Description (<i>Use additional sheet(s) if required.</i>)			
Has any construction been started? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Anticipated start date (<i>month, day, year</i>) 12/11/2024	
If yes, how much work is completed? N/A			
Purpose of project and overview of activities The proposed federally funded project (Des. No. 1902834) rehabilitates Fort Wayne Bridge No. 358. The structure serves to carry traffic along Bluffton Rd over St Mary's River. Fort Wayne Bridge No. 358 is located 1.2 miles west of US-27 near Fort Wayne, Indiana. The proposed project is to address the advanced deterioration of the existing bridge which includes the serious condition of the superstructure with shear cracks in multiple beams across several spans and supports. Also included in this project is the rehabilitation of the existing pedestrian trail located within the city park, beginning east of the St. Mary's superstructure and will carry pedestrian traffic under the bridge and north. For pedestrian safety on the trail, lights will be installed under the St Mary's bridge. Details are included herein. As part of the rehabilitation of this trail, an existing timber bridge over an UNT will be removed and replaced with a 24" Type 1 Pipe. The existing superstructure is a five span prestressed concrete I-beam bridge with 332' long out to out bridge floor, with four of the five spans measuring 65' and one span measuring 70'. Proposed work includes beam reconstruction, replacement of the superstructure, and placement of aggregate for erosion and scour protection. The proposed structure is a five span continuous composite prestressed concrete I-beam bridge with 28' clear roadway width. The proposed rehabilitation includes placement of aggregate for end bent backfill and revetment riprap surrounding each pier. Please see attached for Project Description Continued			

5. Avoidance, Minimization, and Mitigation Information: Applicants must answer all of the following questions
(Use additional sheet(s) if necessary - provide a detailed response to all applicable questions.)

A. For projects with Class II isolated wetlands –

1. Is there a reasonable alternative to the proposed activity?
N/A

2. Is the proposed activity reasonably necessary or appropriate?
N/A

B. For projects with Class III wetlands, adjacent wetlands, and/or streams, rivers, lakes or other water bodies –

1. Is there a practicable alternative to the proposed activity?
No practical alternative is available to the proposed bridge rehabilitation project due to the advanced deterioration of the structure.

2. Have practicable and appropriate steps to minimize impacts to water resources been taken?
Minimization efforts to impacts to water resources and floodway were implemented during project design. Permanent impacts to the St. Marys River were unavoidable in order to address bridge pier scour. Tree removal within the floodway was limited to one quadrant of the bridge for access for bridge construction. Temporary causeway for bridge construction will consist of multiple pipes covered with aggregate. The temporary causeway will be in place for approximately 15 months or until construction is complete.

Describe all compensatory mitigation required for unavoidable impacts.

The total non-wetland tree removal equals 0.15 acre. The project is considered urban and the impacted non-wetland forested areas have multiple herbaceous layers, therefore mitigation is proposed at 1:1 per the NRC Bulletin 17 "Habitat Mitigation Guidelines". Due to on-site constraints the in lieu fee "ILF" program credits will be purchased prior to disturbance.

6. Drawing / Plan Requirements (Applicants must provide the following.)

- a. Top/aerial/overhead views of the project site showing existing conditions and proposed construction.
- b. Cross sectional view of areas of fill or alterations to streams and other waters.
- c. North arrow, scale, property boundaries.
- d. Include wetland delineation boundary (if applicable). Label all wetlands (jurisdictional, isolated and exempt) as I-1, I-2, I-3, etc. and the mitigation areas as M-1, M-2, etc.
- e. Location of all surface waters, including wetlands, erosion control measures, existing and proposed structures, fill and excavation locations, disposal area for excavated material, including quantities, and wetland mitigation site (if applicable).
- f. Approximate water depths and bottom configurations (if applicable).

7. Supplemental Application Materials (Applicants must provide the following.)

- a. A wetland delineation of all wetlands on the project site (for projects with wetland impacts).
- b. At least three photographs of the project site. Indicate the photo locations on the project plans.
- c. If isolated wetlands are present, a letter from the Corps of Engineers verifying this statement.
- d. Wetland mitigation plan and monitoring report.
- e. Classification of all isolated wetlands on the tract (if isolated wetlands are present onsite).
- f. Copies of all applicable local permits and/or resolutions pertaining to the project or tract.
- g. Tract history (see instructions).

8. Additional information that MAY be required (IDEM will notify you if needed.)

- a. Erosion control and/or storm water management plans.
- b. Sediment analysis.
- c. Species surveys for fish, mussels, plants and threatened or endangered species.
- d. Stream habitat assessment.
- e. Any other information IDEM deems necessary to review the proposed project.

9. Permitting Requirements

a. Does this project require the issuance of a Department of the Army Section 404 Permit from the US Army Corps of Engineers? Yes No

If no, you do not need to answer Part b.

b. Have you applied for an Army Corps of Engineers Section 404 permit? Yes No

If yes, please supply the Corps of Engineers ID Number, the Corps of Engineers District, the project manager, and a copy of any correspondence with the Corps. **If no, contact** the Army Corps of Engineers regarding the possible need for a permit application.

LRE-2023-00598-102

c. Have you applied for, received, or been denied a permit from the Department of Natural Resources for this project? Yes No

Please give the permit name, permit number, and date of application, issuance or denial.

FW-32431-0

d. Have you applied for, received, or been denied any other federal, state, or local permits, variances, licenses, or certifications for this project?

Yes No

Please give the permit name, agency from which it was obtained, permit number, and date of issuance or denial.

N/A

10. Adjoining Property Owners and Addresses

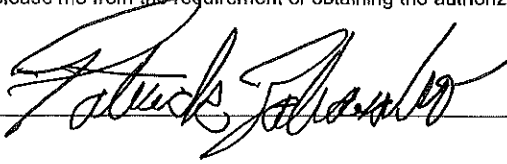
List the names and addresses of landowners adjacent to the property on which your project is located and the names and addresses of other persons (or entities) potentially affected by your project. Use additional sheet(s) if required.

<p>Name Sweet Real Estate LLC Address (number and street) 7100 W Jefferson Blvd City State ZIP Code Fort Wayne IN 46804</p>	<p>Name ODowd Kieran Lynna Address (number and street) 1330 Illsley Dr City State ZIP Code Fort Wayne IN 46807</p>
<p>Name Fort Wayne City Of Board of Public Works Address (number and street) 200 E Berry St Ste 470 City State ZIP Code Fort Wayne IN 46802</p>	<p>Name Modern Mill LLC Address (number and street) 3518 Broadway City State ZIP Code Fort Wayne IN 46807</p>
<p>Name Apollo Holdings Company LLC Address (number and street) 3516 Broadway City State ZIP Code Fort Wayne IN 46807</p>	<p>Name Caro Lilliana Address (number and street) 1241 Nuttman Ave City State ZIP Code Fort Wayne IN 46807</p>
<p>Name Gouty Servicenter Inc Address (number and street) 3500 Broadway City State ZIP Code Fort Wayne IN 46807</p>	<p>Name Address (number and street) City State ZIP Code</p>
<p>Name Gregson Brooke D Successor Trustee et al c/o Wendys Pro LLC Address (number and street) 1 Dave Thomas Blvd City State ZIP Code Dublin OH 43017</p>	<p>Name Address (number and street) City State ZIP Code</p>
<p>Name Matthews David N Address (number and street) 3611 Broadway City State ZIP Code Fort Wayne IN 46807</p>	<p>Name Address (number and street) City State ZIP Code</p>

11. Signature - Statement of Affirmation

I certify that I am familiar with the information contained in this application and, to the best of my knowledge and belief, such information is true and accurate. I certify that I have the authority to undertake and will undertake the activities as described in this application. I am aware that there are penalties for submitting false information. I understand that any changes in project design subsequent to IDEM's granting of authorization to discharge to a water of the state are not authorized and I may be subject to civil and criminal penalties for proceeding without proper authorization. I agree to allow representatives of the IDEM to enter and inspect the project site. I understand that the granting of other permits by local, state, or federal agencies does not release me from the requirement of obtaining the authorization requested herein before commencing the project.

Applicant's Signature: _____



Date: _____

11/19/2024
(mm/dd/yyyy)

Print Name: Patrick Zaharako

Title: _____

City Engineer, City of
Fort Wayne



Fort Wayne Bridge No. 358 Rehabilitation (Des. No. 1902834)

Project Description

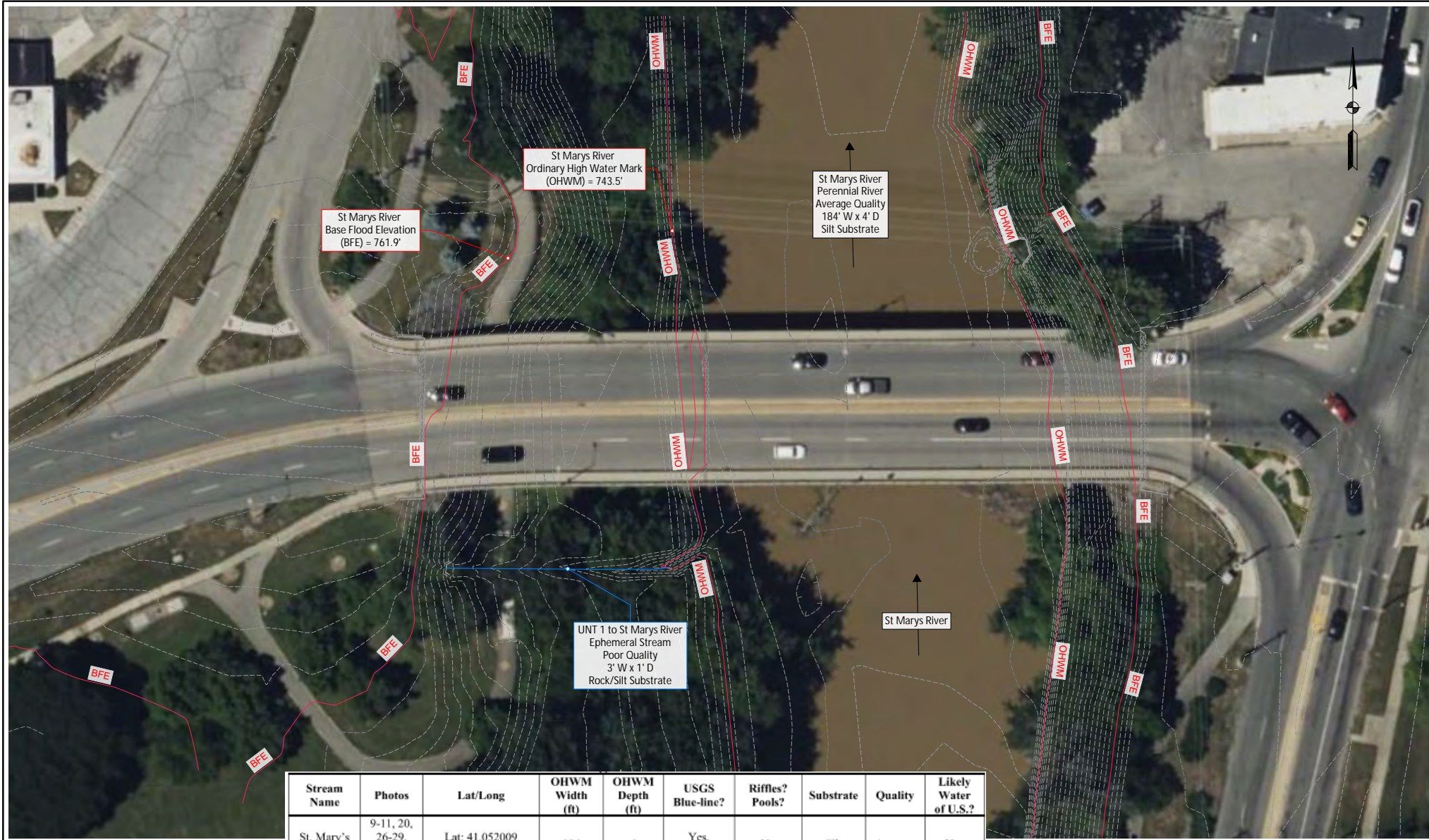
{The proposed federally funded project (Des. No. 1902834) rehabilitates Fort Wayne Bridge No. 358. The structure serves to carry traffic along Bluffton Rd over St Mary's River. Fort Wayne Bridge No. 358 is located 1.2 miles west of US-27 near Fort Wayne, Indiana. The proposed project is to address the advanced deterioration of the existing bridge which includes the serious condition of the superstructure with shear cracks in multiple beams across several spans and supports. Also included in this project is the rehabilitation of the existing pedestrian trail located within the city park, beginning east of the St. Mary's superstructure and will carry pedestrian traffic under the bridge and north. For pedestrian safety on the trail, lights will be installed under the St Mary's bridge. Details are included herein. As part of the rehabilitation of this trail, an existing timber bridge over an UNT will be removed and replaced with a 24" Type 1 Pipe.

The existing superstructure is a five span prestressed concrete I-beam bridge with 332' long out to out bridge floor, with four of the five spans measuring 65' and one span measuring 70'. Proposed work includes beam reconstruction, replacement of the superstructure, and placement of aggregate for erosion and scour protection. The proposed structure is a five span continuous composite prestressed concrete I-beam bridge with 28' clear roadway width. The proposed rehabilitation includes placement of aggregate for end bent backfill and revetment riprap surrounding each pier.}

Within the investigated area there are two stream features (St. Mary's River, perennial river and UNT 1 to St. Mary's River, ephemeral stream). Water resources are further described in the Waters of the United States included herein. Permanent impacts to St. Mary's River below OHWM totals 121.5 LFT, 0.129 acre, and 621.5 CYD resulting from riprap for erosion and scour protection. Permanent impacts to St. Mary's River below BFE totals 161.2 LFT, 0.726 acre, and 1,613.3 CYD. Permanent impacts to UNT 1 to St. Mary's River below OHWM totals 31.0 LFT, 0.0012 acre, and 3.0 CYD resulting from stream encapsulation and riprap for erosion and scour protection. Temporary impacts resulting from the causeway total 129.5 LFT, 0.571 acre, and 8,288.0 CYD. To allow for more 50% of the waterway opening to be open while causeway is installed, 21, 5' diameter pipes through the length of the causeway. The causeway is anticipated to be in place for 15 months or until bridge construction is complete.

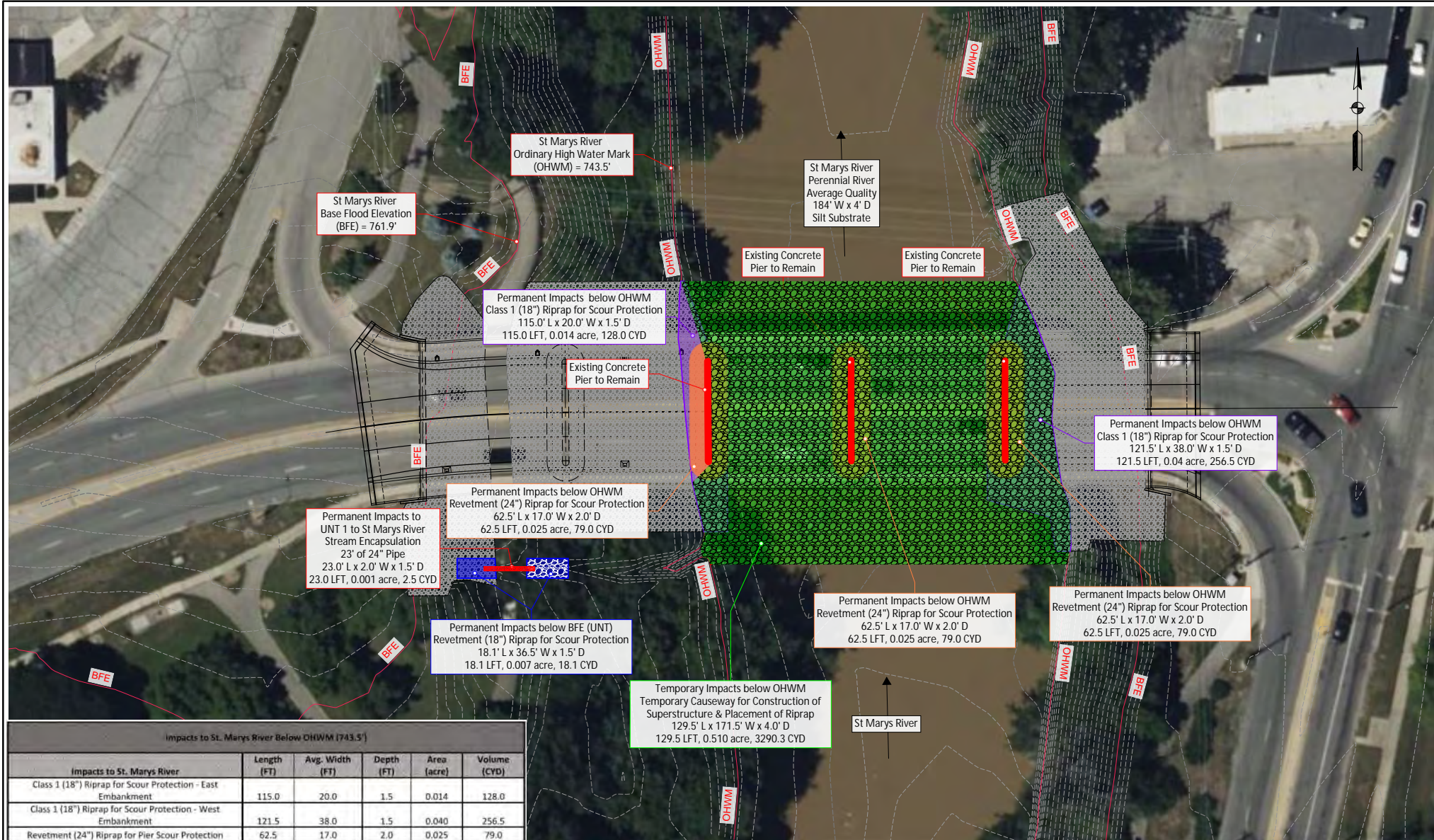
Disturbed areas resulting from the rehabilitation of the pedestrian trail will be permanently seeded using "Park Mix" according to INDOT RSP 623.07(a),(b). The RSP is included herein for reference. Temporary stabilization methods will include Erosion Control Blankets that are heavy-duty, biodegradable, and net free or that use loose-woven / Leno-woven netting.

Coordination with the USFWS via IPaC and the concurrence verification of the finding of "may affect - likely to adversely affect" was received 3/22/2023. The concurrence letter and species list (10/21/2021) along with the IDNR Division of Fish and Wildlife ER-24159 are included herein. The INSHPO responded to the Effects Report on June 1, 2023 and concurred with the "No Adverse Effect" findings.



Stream Name	Photos	Lat/Long	OHWM Width (ft)	OHWM Depth (ft)	USGS Blue-line?	Riffles? Pools?	Substrate	Quality	Likely Water of U.S.?
St. Mary's River	9-11, 20, 26-29, 34-36, 44, 45, 47	Lat: 41.052009 Long: -85.157968	184	4	Yes, Perennial	No	Silt	Average	Yes
UNT 1 to St. Mary's River	15, 16, 19, 20	Lat: 41.051952 Long: -85.158149	3	1	No, Ephemeral	No	Rock/silt	Poor	Yes

Existing Conditions		HORIZONTAL SCALE	BRIDGE FILE
		1" = 20'	Fort Wayne 358
Fort Wayne Bridge No. 358 Bridge Rehabilitation		VERTICAL SCALE	DESIGNATION
		N/A	1902834
		SURVEY BOOK	SHEETS
		N/A	1 of 1
		CONTRACT	PROJECT
		B-42844	1902834



Impacts to St. Marys River Below OHWM (743.5')					
Impacts to St. Marys River	Length (FT)	Avg. Width (FT)	Depth (FT)	Area (acre)	Volume (CYD)
Class 1 (18") Riprap for Scour Protection - East Embankment	115.0	20.0	1.5	0.014	128.0
Class 1 (18") Riprap for Scour Protection - West Embankment	121.5	38.0	1.5	0.040	256.5
Revetment (24") Riprap for Pier Scour Protection	62.5	17.0	2.0	0.025	79.0
Revetment (24") Riprap for Pier Scour Protection	62.5	17.0	2.0	0.025	79.0
Revetment (24") Riprap for Pier Scour Protection	62.5	17.0	2.0	0.025	79.0
Total Permanent Impacts	121.5	-	-	0.129	621.5
Temporary Causeway for Construction of Superstructure and Placement of Riprap	51.5	171.5	4.0	0.195	1308.5
Total Temporary Impacts	51.5	-	-	0.195	1308.5

Impacts to UNT 1 to St. Marys River Below OHWM					
Impacts to UNT 1 to St. Marys River	Length (FT)	Avg. Width (FT)	Depth (FT)	Area (acre)	Volume (CYD)
Stream Encapsulation - 23' of 24" Pipe	23.0	2.0	1.5	0.001	2.5
Revetment (18") Riprap for Scour Protection	18.1	36.5	1.5	0.007	18.1
Total Permanent Impacts	23.0	-	-	0.008	20.6

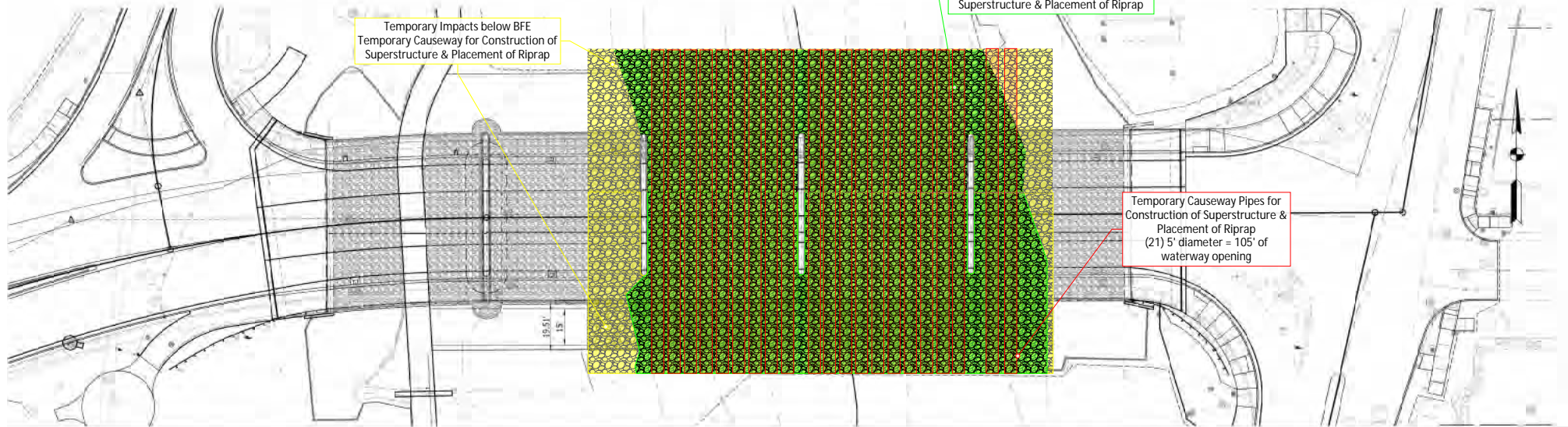
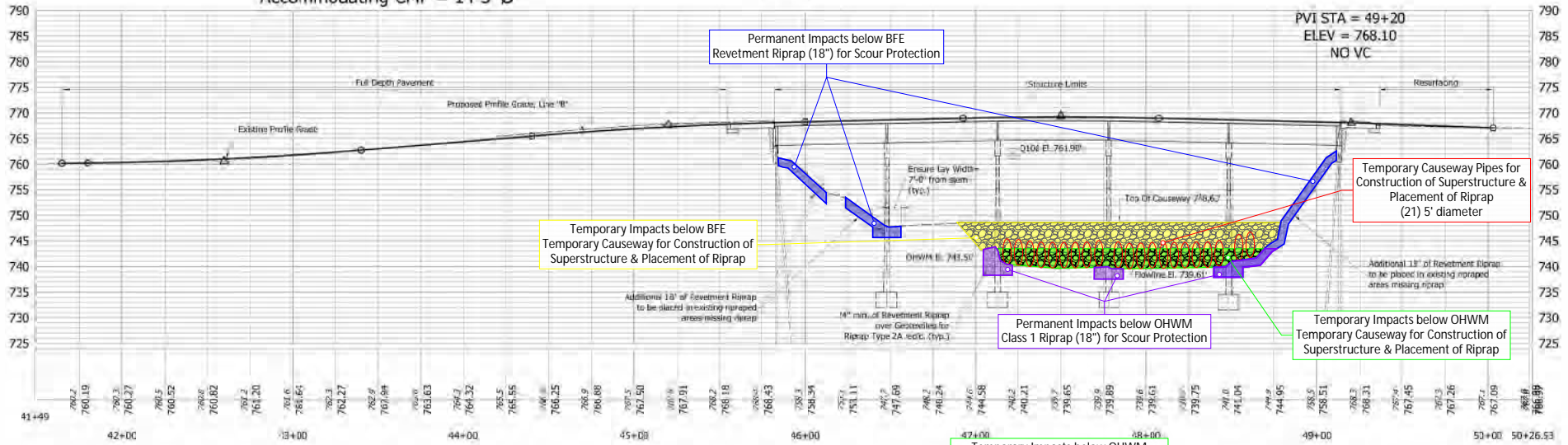
Proposed Conditions Below OHWM

Fort Wayne Bridge No. 358 Bridge Rehabilitation

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	Fort Wayne 358
VERTICAL SCALE	DESIGNATION
N/A	1902834
SURVEY BOOK	SHEETS
N/A	1 of 1
CONTRACT	PROJECT
B-42844	1902834

$\frac{1}{2}$ of flow area = 270 ft²
Accommodating CMP = 14-5' Ø

B (1)



NOT FOR CONSTRUCTION

DESIGNED: BAF	DRAWN: EMT
CHECKED: RFG	CHECKED: BAK

Proposed Conditions
Temporary Causeway

Fort Wayne Bridge No. 358
Bridge Rehabilitation

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE Fort Wayne 358
VERTICAL SCALE 1" = 10'	DISCREPATION 192033A
SURVEY BOOK NA	SHEET 1 of 1
CONTRACT 142034	PROJECT 192033A

PROJECT	DESIGNATION NO.
1902834	1902834
CONTRACT	BRIDGE FILE
B-42844	ALLEN 358

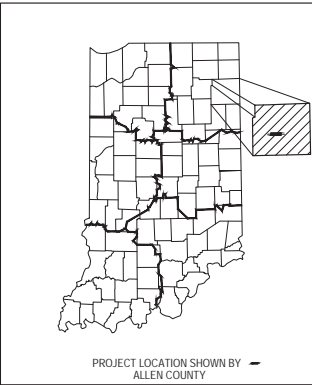
STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
ALLEN COUNTY BRIDGE 358	CONTINUOUS COMPOSITE TYPE III PRESTRESSED CONCRETE I-BEAM	5 SPAN @ 65'-0", 65'-0", 65'-0", 70'-0" & 65'-0" SKEW: NONE	ST. MARY'S RIVER	47+48.10 "B"

INDIANA DEPARTMENT OF TRANSPORTATION



TRAFFIC DATA	BLUFFTON ROAD	BROADWAY	VESEY AVENUE	OAKDALE DRIVE
A.A.D.T. (2025)	28,600 V.P.D.	20,500 V.P.D.	250 V.P.D.	840 V.P.D.
A.A.D.T. (2045)	34,900 V.P.D.	25,015 V.P.D.	305 V.P.D.	1,025 V.P.D.
D.H.V. (2045)	3,490 V.P.H.	2,502 V.P.H.	31 V.P.H.	103 V.P.H.
DIRECTIONAL DISTRIBUTION	50 %	50 %	50 %	100 %
TRUCKS	698 V.P.D. A.A.D.T. 70 V.P.H. D.H.V.	500 V.P.D. A.A.D.T. 50 V.P.H. D.H.V.	3 V.P.D. A.A.D.T. 1 V.P.H. D.H.V.	10 V.P.D. A.A.D.T. 1 V.P.H. D.H.V.
DESIGN DATA	BLUFFTON ROAD	BROADWAY	VESEY AVENUE	OAKDALE DRIVE
DESIGN SPEED	35 MPH	30 MPH	30 MPH	30 MPH
PROJECT DESIGN CRITERIA	3R (Non-Freeway)	3R (Non-Freeway)	3R (Non-Freeway)	3R (Non-Freeway)
FUNCTIONAL CLASSIFICATION	Minor Arterial	Minor Arterial	Local Street	Local Street
RURAL/URBAN	Urban (Built-Up)	Urban (Built-Up)	Urban (Built-Up)	Urban (Built-Up)
TERRAIN	Level	Level	Level	Level
ACCESS CONTROL	None	None	None	None

BRIDGE REHABILITATION PLANS FOR SPANS OVER 20 FEET ON BLUFFTON ROAD OVER ST MARY'S RIVER PROJECT NO. 1902834 P.E. 1902834 R/W 1902834 CONST.



LATITUDE: 41°03'07.51" N LONGITUDE: 85°09'24.49" W

BRIDGE LENGTH = 0.063 mi.
ROAD LENGTH = 0.096 mi.
TOTAL LENGTH = 0.159 mi.
MAX. GRADE = +2.73%

HUC: 041000040606

SUPER STRUCTURE REPLACEMENT OF STRUCTURE 02-00358 (ALLEN COUNTY BR. #358),
CARRYING BLUFFTON ROAD OVER ST MARY'S RIVER, LOCATED IN
SECTION 15, T30N, R12E, WAYNE TOWNSHIP,
ALLEN COUNTY, INDIANA.

APPROVED BY: _____ DATE: _____
PATRICK ZAHARAKO, PE, MBA - CITY OF FORT WAYNE ENGINEER
& EMPLOYEE IN RESPONSIBLE CHARGE (ERC)

APPROVED BY
CITY OF FORT WAYNE BOARD OF PUBLIC WORKS

ATTEST _____ DATE _____

RECOMMENDED FOR APPROVAL _____ DATE _____



INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2022
TO BE USED WITH THESE PLANS

Selected Pages for Permitting

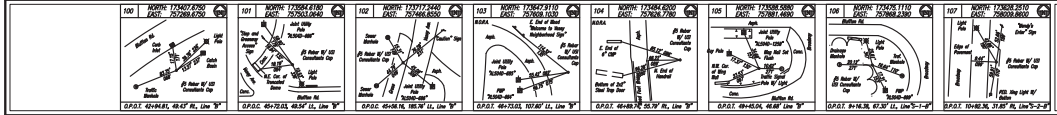
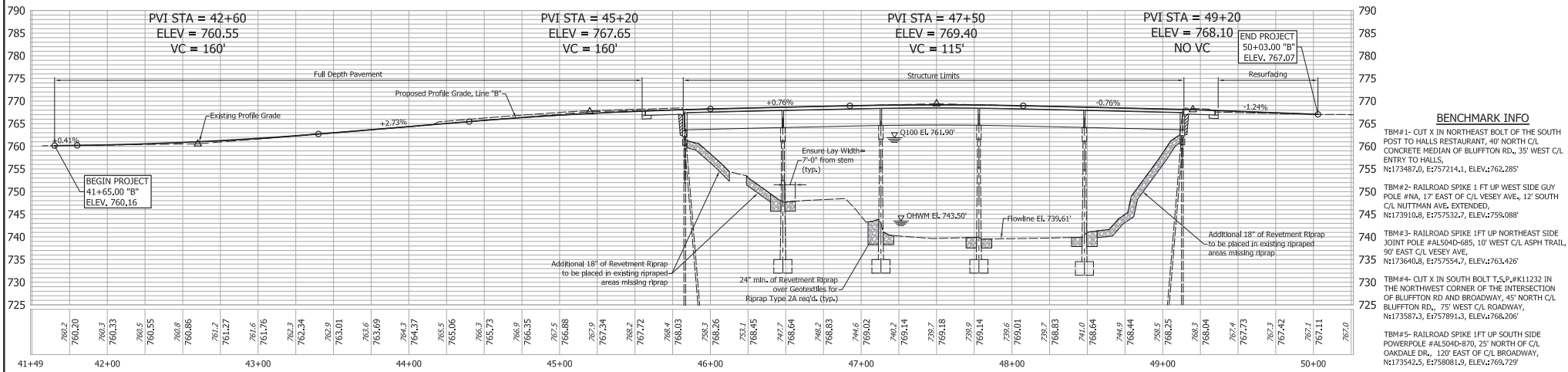
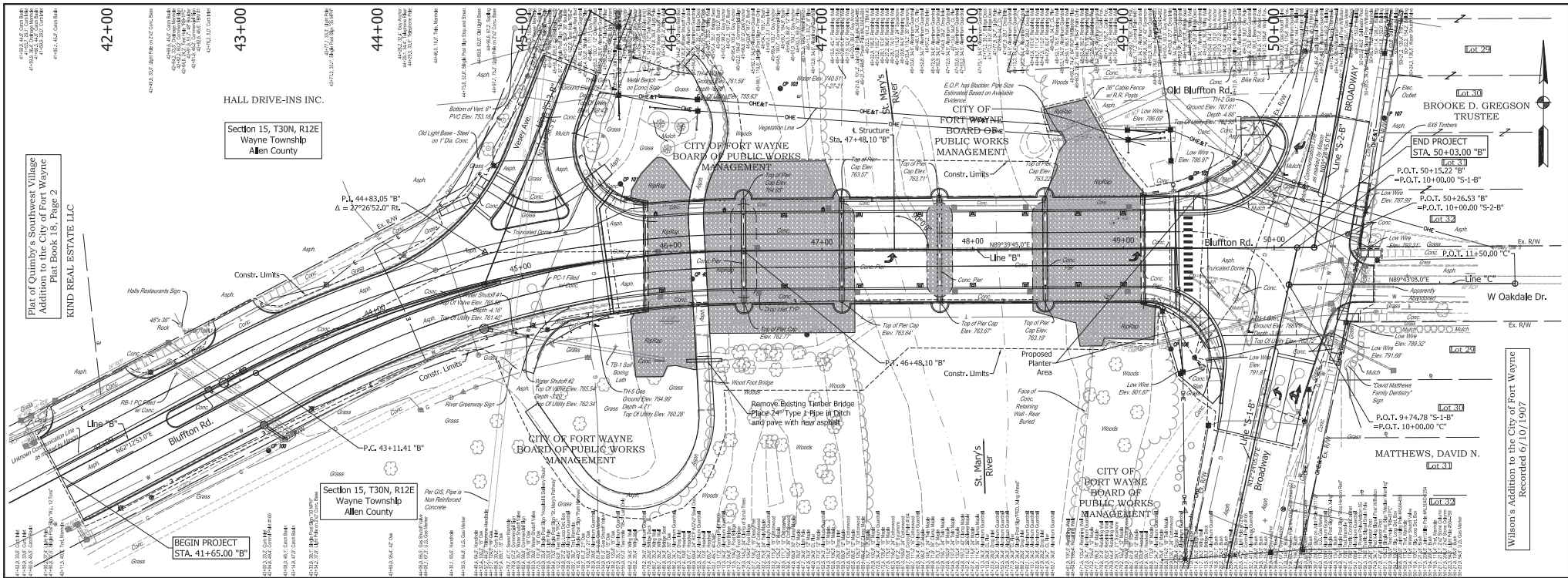


NOT FOR
CONSTRUCTION

PLANS PREPARED BY: USI Consultants, Inc. 317-544-4996
PHONE NUMBER
CERTIFIED BY: _____ DATE
APPROVED FOR LETTING: _____ DATE
INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FILE	ALLEN 358
DESIGNATION NO.	1902834
SHEETS	1 of 63
CONTRACT	B-42844
PROJECT NO.	1902834

S:\2019\p0219-0009 Fort Wayne Br. 358\Plans\Bridge_Plan\2019-0009 Title Sheet.dwg, 3/17/2022, 8:14:10 AM, DWG To PDF, p.3



NOT FOR CONSTRUCTION

DESIGNER:	BMA	DRAWN:	BDC
CHECKED:	KAM	CHECKED:	BMA

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "B"

HORIZONTAL SCALE	1"=30'	BRIDGE FILE	ALLEN 358
VERTICAL SCALE	1"=10'	DESIGNATION	1902834
SURVEY BOOK		SHEETS	1 OF 63
CONTRACT	B-2844	PROJECT	1902834

- BENCHMARK INFO**
- BM#1- CUT X IN NORTHEAST BOLT OF THE SOUTH POST TO HALLS RESTAURANT, 40' NORTH C/L CONCRETE MEDIAN OF BLUFFTON RD., 35' WEST C/L ENTRY TO HALLS, N173487.0, E757214.1, ELEV:762.285'
 - BM#2- RAILROAD SPIKE 1 FT UP WEST SIDE GUY POLE #NA, 17' EAST OF C/L VESEY AVE, 12' SOUTH C/L NUTTMAN AVE. EXTENDED, N173910.8, E757532.7, ELEV:759.088'
 - BM#3- RAILROAD SPIKE 1 FT UP NORTHEAST SIDE JOINT POLE #ALS04D-685, 10' WEST C/L ASPHALT, 90' EAST C/L VESEY AVE, N173640.8, E757554.7, ELEV:763.426'
 - BM#4- CUT X IN SOUTH BOLT T.S.P.#K11232 IN THE NORTHWEST CORNER OF THE INTERSECTION OF BLUFFTON RD AND BROADWAY, 45' NORTH C/L BLUFFTON RD., 75' WEST C/L BROADWAY, N173587.3, E757891.3, ELEV:768.206'
 - BM#5- RAILROAD SPIKE 1 FT UP SOUTH SIDE POWERPOLE #ALS04D-870, 25' NORTH OF C/L OAKDALE DR., 120' EAST OF C/L BROADWAY, N173542.5, E758081.9, ELEV:765.729'

Wilson's Addition to the City of Fort Wayne
Recorded 6/10/1907

Plat of Quimby's Southwest Village Addition to the City of Fort Wayne Plat Book 18, Page 2
KIND REAL ESTATE LLC

Section 15, T30N, R12E
Wayne Township
Allen County

Section 15, T30N, R12E
Wayne Township
Allen County

Lot 29
BROOKE D. GREGSON TRUSTEE
END PROJECT STA. 50+03.00 "B"
Lot 31
P.O.T. 50+15.22 "B"
P.O.T. 10+00.00 "S-1-B"
P.O.T. 50+26.53 "B"
P.O.T. 10+00.00 "S-2-B"
Lot 32
P.O.T. 11+50.00 "C"
W Oakdale Dr.
Lot 28
P.O.T. 9+74.78 "S-1-B"
P.O.T. 10+00.00 "C"
Lot 30
MATTHEWS, DAVID N.
Lot 33
Lot 32

CITY OF FORT WAYNE
BOARD OF PUBLIC WORKS
MANAGEMENT

HALL DRIVE-INS INC.



CURVE DATA
P.I. 1+08.50 "P"
Δ = 108°34'32.5" Lt.
R = 40.00'
T = 55.64'
L = 75.80'
E = 28.53'

P.I. 1+08.50 "P"
Δ = 108°34'32.5" Lt.

CURVE DATA
P.I. 1+50.26 "P"
Δ = 39°35'39.8" Lt.
R = 60.00'
T = 21.60'
L = 41.46'
E = 3.77'

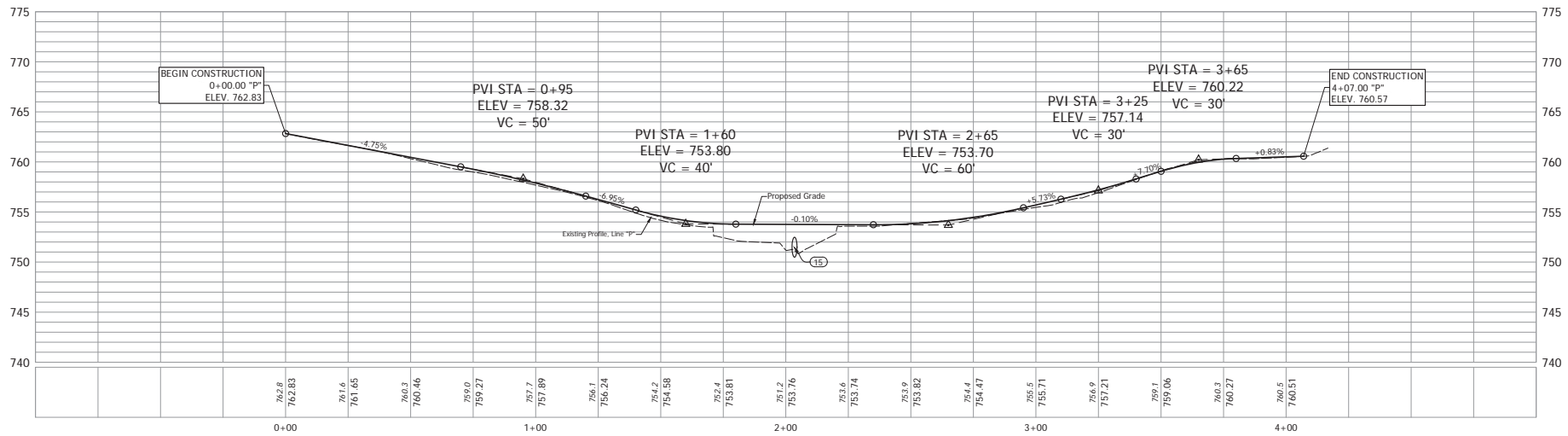
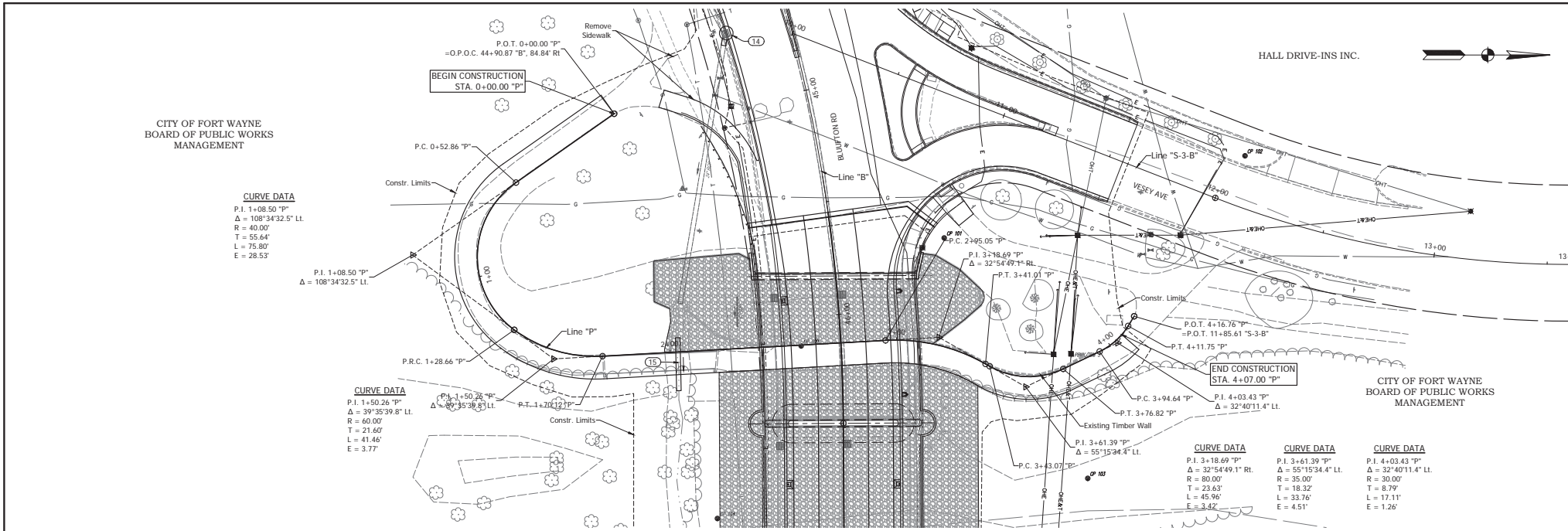
P.I. 1+50.26 "P"
Δ = 39°35'39.8" Lt.

CURVE DATA
P.I. 3+61.39 "P"
Δ = 55°15'34.4" Lt.
R = 80.00'
T = 23.63'
L = 45.96'
E = 3.42'

P.I. 3+61.39 "P"
Δ = 55°15'34.4" Lt.

CURVE DATA
P.I. 4+03.43 "P"
Δ = 55°15'34.4" Lt.
R = 35.00'
T = 18.32'
L = 33.76'
E = 4.51'

CURVE DATA
P.I. 4+03.43 "P"
Δ = 32°40'11.4" Rt.
R = 30.00'
T = 8.79'
L = 17.11'
E = 1.26'



NOT FOR
CONSTRUCTION

DESIGNED: BMA	DRAWN: CNC
CHECKED: KAM	CHECKED: BMA

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
ST. MARYS PATHWAY - LINE "P"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE ALLEN 358
VERTICAL SCALE 1" = 5'	DESIGNATION 1902834
SURVEY BOOK	SHEETS
CONTRACT B-42844	16 OF 63
PROJECT	1902834



**Waters Report
Bluffton Road (Rd) over St. Mary's River
Bridge Project
Bridge 02-00358
Allen County, Indiana
Des. No. 1902834**

Report Completed on: August 16, 2022

Prepared for:
USI Consultants

Prepared By:

Jeegar Panchal
SJCA Inc.
9102 N Meridian St, #200
Indianapolis, IN 46260

p. 317.566.0629

e. jpanchal@sjcainc.com



Field Investigation Date: June 15, 2022

Site Location:

Section 15, Township 30 North, Range 12 East
Fort Wayne West 1:24,000 Quadrangle
Allen County, Indiana
Latitude 41.052009, Longitude -85.157968

Project Description:

The City of Fort Wayne and the Federal Highway Administration (FHWA) intend to proceed with a bridge project (Des. No. 1902834) on Bluffton Road (Rd) over St. Mary's River in Allen County, Indiana. The project extends from approximately 0.05 mile west of Broadway Avenue (Ave) to the intersection of Bluffton Rd and Broadway Ave. The existing bridge is a 5-span, prestressed concrete continuous girder bridge that is approximately 331 feet (ft) 9 inches in length and 70 ft 5 inches in width. The bridge provides a total of four 12-foot-wide travel lanes, two in each direction, separated by a 2-foot-wide raised concrete median. Two (2) 5-foot-wide sidewalks exist on the bridge, with one along the western edge and one on the eastern edge. This bridge rehabilitation project includes replacing the superstructure, rehabilitating the existing substructure, and installing riprap for scour protection at the bridge piers. The bridge profile will be raised, and the approaches will be reconstructed to tie into the existing roadway. The travel lanes will be reduced to a width of 11 ft, allowing for the construction of wider, 9-foot-wide sidewalks.

The investigated area is in northwestern Allen County and within the limits of the City of Fort Wayne. Land use in the vicinity of the investigated area is primarily wooded along the riparian corridors of St. Mary's River, with commercial and residential properties on both sides of Bluffton Rd and Broadway Ave. The major features in the investigated area are Bluffton Rd, Broadway Ave, and St. Mary's River. The investigated area is generally level, with steep slopes along the banks of St. Mary's River. The investigated area occurs entirely within the US Army Corps of Engineers (USACE) Midwest region.

Vegetation within the project area is primarily herbaceous and maintained lawn along the roadside. Dominant vegetation along forested riparian corridor of St. Mary's River was green ash (*Fraxinus pennsylvanica*, FACW), silver maple (*Acer saccharinum*, FACW), northern catalpa (*Catalpa speciosa*, FACU), boxelder (*Acer negundo*, FAC), panicled aster (*Symphyotrichum lanceolatum*, FAC), clearweed (*Pilea pumila*, FACW), jumpseed (*Persicaria virginiana*, FAC), and giant goldenrod (*Solidago gigantea*, FACW), green-head coneflower (*Rudbeckia laciniata*, FACW), smooth blue American-aster (*Symphyotrichum leave*, FACU), and summer grape (*Vitis aestivalis*, FACU). Hydrology in the project area is influenced primarily by St. Mary's River. The nearest major hydrological feature is St. Mary's River, which is within the investigated area. The attached floodplains map indicates that there are mapped floodplains within the investigated area.

An FQA was completed for the site to determine the quality of the land parcels involved. A total of 13 different plants were identified during the site investigation. All plants identified within the investigated area were entered into the Universal FQA Calculator (<https://universalfqa.org/>) and analyzed using the USACE Chicago District FQA Database (2017). The results indicated that the site has a Native Mean C value of 3.2 and a Native FQI of 11.1, which indicates that the site



contains low quality vegetation. The percentage of species identified within the investigated area that are considered native was 92.30%.

Soils:

According to the Soil Survey Geographic (SSURGO) Database for Allen County, Indiana, the investigated area does not contain soil areas with nationally listed hydric soils. Soils within and near the investigated area are characterized by nonhydric soils.

Table 1. Soil Types Within the Investigated Area

Soil Abbreviation	Soil Unit Name	Hydric Soil Category (IN003)	Hydric Rating
Ma	Made land	Nonhydric	0% Hydric
McA	Martinsville loam, 0 to 2 percent slopes	Nonhydric	0% Hydric
McB	Martinsville loam, 2 to 6 percent slopes	Nonhydric	0% Hydric
W	Water	Nonhydric	0% Hydric

National Wetlands Inventory (NWI) Information:

There are no mapped wetlands features within the investigated area. The nearest wetland feature is palustrine feature and classified as PEM1C (Palustrine, Emergent, Persistent, seasonally flooded). One stream, St. Mary’s River, is mapped as R2UBH (Perennial riverine, Unconsolidated bottom).

Table 2. Nearest Mapped NWI Features

Wetland/Water Feature Type	Location
PEM1C	0.30 miles northwest of the investigated area
R2UBH	Within investigated area

HUC 12:

Junk Ditch-St. Mary’s River (041000040606).

National Hydrography Dataset (NHD) Information:

There is one NHD – Classified flowline within the investigated area, labeled as Artificial Path; however, it is associated with St. Mary’s River.

Field Reconnaissance:

Site conditions were typical for mid-June, with 1.04-inch rain occurring within the five days prior to the field investigation (according to wunderground.com). Temperatures were above average during the site investigation with temperatures reaching the mid-nineties (°F).

Prior to the field investigation, the US Geological Survey (USGS) topographic map, aerial imagery, the USGS NHD, U.S. Fish and Wildlife Service (USFWS) NWI map, the Natural Resources Conservation Service (NRCS) Web Soil Survey for Allen County, and the Indiana Geological and Water Survey (IGWS) LiDAR data were reviewed to identify potential water resources on the site.

The entire investigated area, as shown on the attached project graphics, was visually surveyed during the site visit for potential water features. Areas that were identified during the preliminary desktop review and in the field visit were investigated to determine the potential jurisdictional status of these features. Delineation of wetlands and water features was completed using the *Corps of Engineers Wetland Delineation Manual (1987)* and the *Regional Supplement to the Corps of Engineers Wetland Delineation Manual: Midwest Region (2010)*. Soils in the project area were evaluated using the *2017 Pocket Guide to Hydric Soil Field Indicators* and a Munsell soil chart. Vegetation in the investigated area was evaluated using various plant identification guides and the *USACE Midwest Region 2020 Wetland Plant List*. Sample points were collected at potential wetland features and associated upland areas to verify the presence or absence of wetland indicators. Jurisdictional recommendations were made according to the *US Army Corps of Engineers Jurisdictional Determination Form Instructional Guidebook*. Water features that were identified within the investigated area were documented using GPS location.

Stream Features:

St. Mary's River is a perennial stream that flows under the bridge carrying Bluffton Rd over St. Mary's River. It is accurately shown on the NWI map as R2UBH (perennial riverine, unconsolidated bottom), and on the USGS topographic map as a solid blue-line stream (perennial). According to the USGS *StreamStats* site, (streamstats.usgs.gov), St. Mary's River flows north under the bridge has an upstream drainage area of 808.413 square miles. Approximately 140 linear ft of St. Mary's River is within the investigated area. The bankfull width is approximately 192 ft and substrate is silt. The banks of stream were moderately eroded. The banks of stream had a high amount of bank coverage within the investigated area. The stream has an ordinary high water mark (OHWM) width of 184 ft and 4 ft deep (measured on south side of the bridge). St. Mary's River was characterized by high flow velocity at the time of the field investigation. The stream has low sinuosity within the investigated area and does not contain riffle/run complexes. The quality of the stream is rated as average due to the high in-stream coverage, moderately eroded banks, high bank coverage, lack of riffle/runs, and low sinuosity. According to the Indiana Natural Resources Commission website, St. Mary's River is not listed as a navigable waterway. However, St. Mary's River connects to Great Miami River up in Miami County, Ohio, which is listed as navigable waterway. Due to the perennial flow conditions and eventually connectivity to navigable waterway, it is likely that St. Mary's River is jurisdictional under the authority of the USACE. Therefore, it is likely a Water of the U.S.

UNT 1 to St. Mary's River is an ephemeral stream located in the southwest quadrant of the investigated area. The stream is not mapped on the NWI map, USGS topographic map, or on the USGS *StreamStats* report. Based on the site investigation, UNT 1 to St. Mary's River exhibits a bankfull width of 4 ft, an Ordinary High Water Mark (OHWM) width of 3 ft, and an OHWM depth of 1 foot. UNT 1 to St. Mary's River had no water flow at the time of investigation. UNT 1 to St. Mary's River was characterized by a having high instream and bank cover, and silt and rock substrate at the time of field investigation. The stream has low sinuosity, does not contain riffle/run complexes, and provides minimal habitat for aquatic flora and fauna. UNT 1 to St. Mary's River is considered to be of poor quality due to these attributes. Approximately 96 linear ft of UNT 1 to St. Mary's River is present within the investigated area. UNT 1 to St. Mary's

River flows into St. Mary’s River, which is a likely jurisdictional stream under USACE (see above). Therefore, UNT 1 to St. Mary’s River is likely a Water of the U.S.

Table 3. Stream Features Within Investigated Area

Stream Name	Photos	Lat/Long	OHWL Width (ft)	OHWL Depth (ft)	USGS Blue-line?	Riffles? Pools?	Substrate	Quality	Likely Water of U.S.?
St. Mary’s River	9-11, 20, 26-29, 34-36, 44, 45, 47	Lat: 41.052009 Long: -85.157968	184	4	Yes, Perennial	No	Silt	Average	Yes
UNT 1 to St. Mary’s River	15, 16, 19, 20	Lat: 41.051952 Long: -85.158149	3	1	No, Ephemeral	No	Rock/silt	Poor	Yes

Sample Points (SPs)

Table 4. Sample Point Summary Table

Sample Point	Photos	Vegetation	Soils	Hydrology	Wetland
SP 1	21-25	Yes	No	Yes	No

Sample Point 1 (SP 1) was taken in the southwest quadrant of the project bridge, near the top of the bank of St. Mary’s River. SP 1 is dominated by silver maple (*Acer saccharinum*, FACW), boxelder (*Acer negundo*, FAC), green ash (*Fraxinus pennsylvanica*, FACW), panicled aster (*Symphotrichum lanceolatum*, FAC), smooth blue aster (*Symphotrichum leave*, FACU), cutleaf cornflower (*Rudbeckia laciniata*, FACW), and summer grape (*Vitis aestivalis*, FACU) and meets Dominance Test and Prevalence Index indicators for hydrophytic vegetation. Soil at SP 1 has layer of 10 YR 4/2 (100%) from 0-16 inches. Soil texture is silty clay loam from 0-16 inches. SP 1 meets only one secondary indicator for wetland hydrology, FAC-Neutral Test. The sample point exhibits hydrophytic vegetation but lacks hydric soils and wetland hydrology; therefore, SP 1 is not within a wetland. The presence of hydrophytic vegetation can be explained by the location within the floodplain and along the banks of the stream. The soils likely drain quickly, and flooding events appear to be for short durations, preventing hydric soils from forming.

Open Water:

No open water bodies were identified within or immediately adjacent to the investigated area in the desktop review. The field visit confirmed that no open water features are within the investigated area.

Other Features and Roadside Ditches (RSDs):

The investigated area was assessed for the presence of other water features. Other water features include RSDs, areas that do not have an OHWM but have concentrated flow, historic drainage, and other unusual drainage features. No open water or other water features were identified in the investigated area.



Conclusions:

The site investigation identified two streams, St. Mary’s River and UNT 1 to St. Mary’s River. St. Mary’s River and UNT 1 to St. Mary’s River are likely jurisdictional resources. Every effort should be taken to avoid and minimize impacts to these waterways. If impacts are necessary, then mitigation may be required. The USACE should be contacted immediately if impacts will occur. The final determination of jurisdictional waters is ultimately made by the appropriate regulatory staff of the US Army Corps of Engineers. This report is our best judgment based on the guidelines set forth by the Corps.

Acknowledgement:

This waters determination has been prepared based on the best available information, interpreted in the light of the investigator’s training, experience and professional judgement in conformance with the *1987 Corps of Engineers Wetlands Delineation Manual*, the appropriate regional supplement, the USACE *Jurisdictional Determination Form Instructional Guidebook*, and other appropriate agency guidelines.

Jeegar Panchal

A handwritten signature in black ink, appearing to read "Jeegar Panchal", is written over a light blue grid background.

Ecologist

SJCA Inc.

Date: August 16, 2022

Supporting Documentation

- Project Location Map
- USGS Topographic Maps
- Floodplain Map
- NHD Flowlines Map
- NWI Map
- NRCS Hydric Soil Map
- StreamStats Report
- Watersheds Map
- Water Resources Map
- Photograph Location and Orientation Maps
- Site Photographs
- Sample Point Data Sheets
- Preliminary Jurisdictional Determination Form
- FQA Assessment

WETLAND DETERMINATION DATA FORM – Midwest Region

Project/Site: Bluffton Road over St. Mary's River City/County: Allen Sampling Date: 6/15/22
 Applicant/Owner: City of Fort Wayne State: IN Sampling Point: 1
 Investigator(s): Jeegar Panchal, Sawyer Patrick Section, Township, Range: S - 15, T - 30 N, R - 12 E
 Landform (hillslope, terrace, etc.): Floodplain Local relief (concave, convex, none): None
 Slope (%): 0-2 Lat: 41.051887 Long: -85.157991 Datum: WGS 84
 Soil Map Unit Name: McA-Martinsville loam, 0 to 2 percent slopes NWI classification: N/A

Are climatic / hydrologic conditions on the site typical for this time of year? Yes No (If no, explain in Remarks.)
 Are Vegetation , Soil , or Hydrology significantly disturbed? Are "Normal Circumstances" present? Yes No
 Are Vegetation , Soil , or Hydrology naturally problematic? (If needed, explain any answers in Remarks.)

SUMMARY OF FINDINGS – Attach site map showing sampling point locations, transects, important features, etc.

Hydrophytic Vegetation Present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	Is the Sampled Area within a Wetland? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
Hydric Soil Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Wetland Hydrology Present?	Yes <input type="checkbox"/>	No <input checked="" type="checkbox"/>	
Remarks:			

VEGETATION – Use scientific names of plants.

Tree Stratum (Plot size: <u>30 feet</u>)	Absolute % Cover	Dominant Species?	Indicator Status	Dominance Test worksheet:
1. <i>Acer saccharinum</i>	20	X	FACW	Number of Dominant Species That Are OBL, FACW, or FAC: <u>5</u> (A) Total Number of Dominant Species Across All Strata: <u>7</u> (B) Percent of Dominant Species That Are OBL, FACW, or FAC: <u>71.4</u> (A/B)
2. <i>Acer negundo</i>	15	X	FAC	
3. _____				
4. _____				
5. _____				
<u>35</u> = Total Cover				Prevalence Index worksheet: Total % Cover of: _____ Multiply by: _____ OBL species _____ x 1 = <u>0</u> FACW species <u>65</u> x 2 = <u>130</u> FAC species <u>45</u> x 3 = <u>135</u> FACU species <u>40</u> x 4 = <u>160</u> UPL species _____ x 5 = <u>0</u> Column Totals: <u>150</u> (A) <u>425</u> (B) Prevalence Index = B/A = <u>2.8</u>
Sapling/Shrub Stratum (Plot size: <u>15 feet</u>)				
1. <i>Fraxinus pennsylvanica</i>	35	X	FACW	
2. _____				
3. _____				
<u>35</u> = Total Cover				
Herb Stratum (Plot size: <u>5 feet</u>)				
1. <i>Symphotrichum lanceolatum</i>	30	X	FAC	Hydrophytic Vegetation Indicators: <input type="checkbox"/> 1 - Rapid Test for Hydrophytic Vegetation <input checked="" type="checkbox"/> 2 - Dominance Test is >50% <input checked="" type="checkbox"/> 3 - Prevalence Index is ≤3.0 ¹ <input type="checkbox"/> 4 - Morphological Adaptations ¹ (Provide supporting data in Remarks or on a separate sheet) <input type="checkbox"/> Problematic Hydrophytic Vegetation ¹ (Explain)
2. <i>Rudbeckia laciniata</i>	10	X	FACW	
3. <i>Symphotrichum laeve</i>	10	X	FACU	
4. _____				
5. _____				
6. _____				
7. _____				
8. _____				
9. _____				
10. _____				
<u>50</u> = Total Cover				
Woody Vine Stratum (Plot size: <u>30 feet</u>)				
1. <i>Vitis aestivalis</i>	30	X	FACU	
2. _____				
<u>30</u> = Total Cover				
Remarks: (Include photo numbers here or on a separate sheet.)				

SOIL

Sampling Point: 1

Profile Description: (Describe to the depth needed to document the indicator or confirm the absence of indicators.)								
Depth (inches)	Matrix		Redox Features				Texture	Remarks
	Color (moist)	%	Color (moist)	%	Type ¹	Loc ²		
0-16	10 YR 4/2	100					SiCL	

¹Type: C=Concentration, D=Depletion, RM=Reduced Matrix, MS=Masked Sand Grains. ²Location: PL=Pore Lining, M=Matrix.

Hydric Soil Indicators: <input type="checkbox"/> Histosol (A1) <input type="checkbox"/> Histic Epipedon (A2) <input type="checkbox"/> Black Histic (A3) <input type="checkbox"/> Hydrogen Sulfide (A4) <input type="checkbox"/> Stratified Layers (A5) <input type="checkbox"/> 2 cm Muck (A10) <input type="checkbox"/> Depleted Below Dark Surface (A11) <input type="checkbox"/> Thick Dark Surface (A12) <input type="checkbox"/> Sandy Mucky Mineral (S1) <input type="checkbox"/> 5 cm Mucky Peat or Peat (S3)	<input type="checkbox"/> Sandy Gleyed Matrix (S4) <input type="checkbox"/> Sandy Redox (S5) <input type="checkbox"/> Stripped Matrix (S6) <input type="checkbox"/> Loamy Mucky Mineral (F1) <input type="checkbox"/> Loamy Gleyed Matrix (F2) <input type="checkbox"/> Depleted Matrix (F3) <input type="checkbox"/> Redox Dark Surface (F6) <input type="checkbox"/> Depleted Dark Surface (F7) <input type="checkbox"/> Redox Depressions (F8)	Indicators for Problematic Hydric Soils³: <input type="checkbox"/> Coast Prairie Redox (A16) <input type="checkbox"/> Dark Surface (S7) <input type="checkbox"/> Iron-Manganese Masses (F12) <input type="checkbox"/> Very Shallow Dark Surface (TF12) <input type="checkbox"/> Other (Explain in Remarks)
---	--	---

³Indicators of hydrophytic vegetation and wetland hydrology must be present, unless disturbed or problematic.

Restrictive Layer (if observed): Type: _____ Depth (inches): _____	Hydric Soil Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>
---	---

Remarks:

HYDROLOGY

Wetland Hydrology Indicators:		
Primary Indicators (minimum of one is required; check all that apply) <input type="checkbox"/> Surface Water (A1) <input type="checkbox"/> High Water Table (A2) <input type="checkbox"/> Saturation (A3) <input type="checkbox"/> Water Marks (B1) <input type="checkbox"/> Sediment Deposits (B2) <input type="checkbox"/> Drift Deposits (B3) <input type="checkbox"/> Algal Mat or Crust (B4) <input type="checkbox"/> Iron Deposits (B5) <input type="checkbox"/> Inundation Visible on Aerial Imagery (B7) <input type="checkbox"/> Sparsely Vegetated Concave Surface (B8)	<input type="checkbox"/> Water-Stained Leaves (B9) <input type="checkbox"/> Aquatic Fauna (B13) <input type="checkbox"/> True Aquatic Plants (B14) <input type="checkbox"/> Hydrogen Sulfide Odor (C1) <input type="checkbox"/> Oxidized Rhizospheres on Living Roots (C3) <input type="checkbox"/> Presence of Reduced Iron (C4) <input type="checkbox"/> Recent Iron Reduction in Tilled Soils (C6) <input type="checkbox"/> Thin Muck Surface (C7) <input type="checkbox"/> Gauge or Well Data (D9) <input type="checkbox"/> Other (Explain in Remarks)	Secondary Indicators (minimum of two required) <input type="checkbox"/> Surface Soil Cracks (B6) <input type="checkbox"/> Drainage Patterns (B10) <input type="checkbox"/> Dry-Season Water Table (C2) <input type="checkbox"/> Crayfish Burrows (C8) <input type="checkbox"/> Saturation Visible on Aerial Imagery (C9) <input type="checkbox"/> Stunted or Stressed Plants (D1) <input type="checkbox"/> Geomorphic Position (D2) <input checked="" type="checkbox"/> FAC-Neutral Test (D5)
Field Observations: Surface Water Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Water Table Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ Saturation Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> Depth (inches): _____ (includes capillary fringe)		
Wetland Hydrology Present? Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>		
Describe Recorded Data (stream gauge, monitoring well, aerial photos, previous inspections), if available:		
Remarks:		

Appendix 2 - PRELIMINARY JURISDICTIONAL DETERMINATION (PJD) FORM

BACKGROUND INFORMATION

A. REPORT COMPLETION DATE FOR PJD: August 16, 2022

B. NAME AND ADDRESS OF PERSON REQUESTING PJD: Jeegar Panchal SJCA Inc., 9102 N Meridian St. Suite #200
Indianapolis, IN 46260 (317) 566-0629

C. DISTRICT OFFICE, FILE NAME, AND NUMBER:

D. PROJECT LOCATION(S) AND BACKGROUND INFORMATION:

The City of Fort Wayne and the Federal Highway Administration (FHWA) intend to proceed with a bridge project (Des. No. 1902834) on Bluffton Road (Rd) over St. Mary's River in Allen County, Indiana. The project extends from approximately 0.05 mile west of Broadway Avenue (Ave) to the intersection of Bluffton Rd and Broadway Ave. The existing bridge is a 5-span, prestressed concrete continuous girder bridge that is approximately 331 feet (ft) 9 inches in length and 70 ft 5 inches in width. The bridge provides a total of four 12-foot-wide travel lanes, two in each direction, separated by a 2-foot-wide raised concrete median. Two (2) 5-foot-wide sidewalks exist on the bridge, with one along the western edge and one on the eastern edge. This bridge rehabilitation project includes replacing the superstructure, rehabilitating the existing substructure, and installing riprap for scour protection at the bridge piers. The bridge profile will be raised, and the approaches will be reconstructed to tie into the existing roadway. The travel lanes will be reduced to a width of 11 ft, allowing for the construction of wider, 9-foot-wide sidewalks.



(USE THE TABLE BELOW TO DOCUMENT MULTIPLE AQUATIC RESOURCES AND/OR AQUATIC RESOURCES AT DIFFERENT SITES)

State: **IN** County/parish/borough: **Allen** City: **Fort Wayne**

Center coordinates of site (lat/long in degree decimal format):

Lat.: **41.052009°** Long.: **-85.157968°**

Universal Transverse Mercator: **16 N**

Name of nearest waterbody: **St. Mary's River**

E. REVIEW PERFORMED FOR SITE EVALUATION (CHECK ALL THAT APPLY):

Office (Desk) Determination. Date:

Field Determination. Date(s):

TABLE OF AQUATIC RESOURCES IN REVIEW AREA WHICH “MAY BE” SUBJECT TO REGULATORY JURISDICTION.

Site number	Latitude (decimal degrees)	Longitude (decimal degrees)	Estimated amount of aquatic resource in review area (acreage and linear feet, if applicable)	Type of aquatic resource (i.e., wetland vs. non-wetland waters)	Geographic authority to which the aquatic resource “may be” subject (i.e., Section 404 or Section 10/404)
St. Mary's ⁺	41.052009°	-85.157968°	140 linear ft, 0.016 acre	Non-wetland, perennial stream	Section 404
UNT 1 to St. Mary's River	41.051885°	-85.158108°	96 linear ft, 0.00006 acre	Non-wetland, Ephemeral stream ⁺	Section 404

- 1) The Corps of Engineers believes that there may be jurisdictional aquatic resources in the review area, and the requestor of this PJD is hereby advised of his or her option to request and obtain an approved JD (AJD) for that review area based on an informed decision after having discussed the various types of JDs and their characteristics and circumstances when they may be appropriate.
- 2) In any circumstance where a permit applicant obtains an individual permit, or a Nationwide General Permit (NWP) or other general permit verification requiring "pre-construction notification" (PCN), or requests verification for a non-reporting NWP or other general permit, and the permit applicant has not requested an AJD for the activity, the permit applicant is hereby made aware that: (1) the permit applicant has elected to seek a permit authorization based on a PJD, which does not make an official determination of jurisdictional aquatic resources; (2) the applicant has the option to request an AJD before accepting the terms and conditions of the permit authorization, and that basing a permit authorization on an AJD could possibly result in less compensatory mitigation being required or different special conditions; (3) the applicant has the right to request an individual permit rather than accepting the terms and conditions of the NWP or other general permit authorization; (4) the applicant can accept a permit authorization and thereby agree to comply with all the terms and conditions of that permit, including whatever mitigation requirements the Corps has determined to be necessary; (5) undertaking any activity in reliance upon the subject permit authorization without requesting an AJD constitutes the applicant's acceptance of the use of the PJD; (6) accepting a permit authorization (e.g., signing a proffered individual permit) or undertaking any activity in reliance on any form of Corps permit authorization based on a PJD constitutes agreement that all aquatic resources in the review area affected in any way by that activity will be treated as jurisdictional, and waives any challenge to such jurisdiction in any administrative or judicial compliance or enforcement action, or in any administrative appeal or in any Federal court; and (7) whether the applicant elects to use either an AJD or a PJD, the JD will be processed as soon as practicable. Further, an AJD, a proffered individual permit (and all terms and conditions contained therein), or individual permit denial can be administratively appealed pursuant to 33 C.F.R. Part 331. If, during an administrative appeal, it becomes appropriate to make an official determination whether geographic jurisdiction exists over aquatic resources in the review area, or to provide an official delineation of jurisdictional aquatic resources in the review area, the Corps will provide an AJD to accomplish that result, as soon as is practicable. This PJD finds that there "*may be*" waters of the U.S. and/or that there "*may be*" navigable waters of the U.S. on the subject review area, and identifies all aquatic features in the review area that could be affected by the proposed activity, based on the following information:

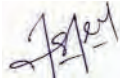
SUPPORTING DATA. Data reviewed for PJD (check all that apply)

Checked items should be included in subject file. Appropriately reference sources below where indicated for all checked items:

- Maps, plans, plots or plat submitted by or on behalf of the PJD requestor:
Map: see maps attached to Waters Report.
- Data sheets prepared/submitted by or on behalf of the PJD requestor.
 - Office concurs with data sheets/delineation report.
 - Office does not concur with data sheets/delineation report. Rationale: _____.
- Data sheets prepared by the Corps: _____.
- Corps navigable waters' study: _____.
- U.S. Geological Survey Hydrologic Atlas: _____.
 - USGS NHD data.
 - USGS 8 and 12 digit HUC maps.
- U.S. Geological Survey map(s). Cite scale & quad name: 24k, Fort Wayne West Quadrangle.
- Natural Resources Conservation Service Soil Survey. Citation: Allen County Soil Survey.
- National wetlands inventory map(s). Cite name: USFWS NWI Wetland Mapper.
- State/local wetland inventory map(s): _____.
- FEMA/FIRM maps: IDNR Floodplain Map.
- 100-year Floodplain Elevation is: _____.(National Geodetic Vertical Datum of 1929)
- Photographs: Aerial (Name & Date): _____
or Other (Name & Date): Site Photographs 6/15/22
- Previous determination(s). File no. and date of response letter: _____.
- Other information (please specify): _____.

IMPORTANT NOTE: The information recorded on this form has not necessarily been verified by the Corps and should not be relied upon for later jurisdictional determinations.

Signature and date of
Regulatory staff member
completing PJD

 08/16/22

Signature and date of
person requesting PJD
(REQUIRED, unless obtaining
the signature is impracticable)¹

¹ Districts may establish timeframes for requestor to return signed PJD forms. If the requestor does not respond within the established time frame, the district may presume concurrence and no additional follow up is necessary prior to finalizing an action.

Bluffton Rd over St. Mary's River 7/30/2022
Allen County Bridge 358 Fort Wayne Allen County IN

FQA DB Region:	Indiana
FQA DB Publication Year:	2019
FQA DB Description:	https://www.lrc.usace.army.mil/Missions/Regulatory/FQA.aspx

Practitioner:	Jeegar Panchal, Sawyer Patrick
Latitude:	41.052009
Longitude:	-85.157968
Weather Notes:	
Duration Notes:	
Community Type Notes:	
Other Notes:	
Private/Public:	Private

Conservatism-Based Metrics:	
Total Mean C:	2.9
Native Mean C:	3.2
Total FQI:	10.5
Native FQI:	11.1
Adjusted FQI:	30.7
% C value 0:	15.4
% C value 1-3:	53.8
% C value 4-6:	23.1
% C value 7-10:	7.7
Native Tree Mean C:	1
Native Shrub Mean C:	n/a
Native Herbaceous Mean C:	4.3

Species Richness:	
Total Species:	13
Native Species:	12 92.30%
Non-native Species:	1 7.70%

Species Wetness:	
Mean Wetness:	-0.2
Native Mean Wetness:	-0.3

Physiognomy Metrics:	
Tree:	4 30.80%
Shrub:	0 0%
Vine:	1 7.70%
Forb:	8 61.50%

Grass:	0	0%
Sedge:	0	0%
Rush:	0	0%
Fern:	0	0%
Bryophyte:	0	0%

Duration Metrics:		
Annual:	2	15.40%
Perennial:	11	84.60%
Biennial:	0	0%
Native Annual:	1	7.70%
Native Perennial:	11	84.60%
Native Biennial:	0	0%

Species:									
Scientific Name	Family	Acronym	Native?	C	W	Physiognomy	Duration	Common Name	
Acer negundo	Sapindaceae	ACENEG	native		1	0	tree	perennial	boxelder
Acer saccharinum	Sapindaceae	ACESAI	native		1	-3	tree	perennial	silver maple
Catalpa speciosa	Bignoniaceae	CATSPE	native		0	3	tree	perennial	cigar tree
Fraxinus pennsylvanica	Oleaceae	FRAPEN	native		2	-3	tree	perennial	green ash
Perilla frutescens	Lamiaceae	PERFRU	non-native		0	0	forb	annual	beefsteak plant
Persicaria virginiana (=tovara virginiana)	Polygonaceae	PERVIR	native		3	0	forb	perennial	jumpseed
Pilea pumila	Urticaceae	PILPUM	native		2	-3	forb	annual	canada clearweed
Rudbeckia laciniata var. laciniata	Asteraceae	RUDLAC	native		3	-3	forb	perennial	wild golden glow
Scrophularia lanceolata	Scrophulariaceae	SCRLAN	native		5	3	forb	perennial	early figwort
Solidago gigantea	Asteraceae	SOLGIG	native		4	-3	forb	perennial	late goldenrod
Symphotrichum laeve var. laeve	Asteraceae	SYMLAE	native		10	3	forb	perennial	smooth blue aster
Symphotrichum lanceolatum (including varieties)	Asteraceae	SYMLAN	native		3	0	forb	perennial	panicked aster
Vitis aestivalis (including 1 variety)	Vitaceae	VITAES	native		4	3	vine	perennial	summer grape

(c) Construction Requirements

Mulch shall not cover or smother landscaped plants/vegetation. Contractor shall apply and spread a layer that settles to a uniform depth indicated by the project plans or Project Manager/Engineer. Mulch shall be kept (6.0-10.0) inches away from the base of trees and shrubs. Contractor shall not place mulch on trunk or trunk flare of trees. Contractor shall clean up any debris or mulch that has been spilled or accidentally blown into areas other than the specified work area. This may include but is not limited to: the roadway, the curb, sidewalk, trail, driveway, and yard.

Contractor shall clean up any debris or mulch that has been spilled or accidentally blown into areas other than the specified work area. This may include but is not limited to: the roadway, the curb, sidewalk, trail, driveway, and yard. Mulch shall not cover or smother landscaped plants/vegetation.

1) Blown Hardwood Mulch

Mulch shall be applied using a mulch blowing truck for efficiency purposes.

a) Application: Contractor shall spread mulch by machine, uniformly across the landscaped area or project area. If machine equipment is unable to access landscape/project area, other methods shall be approved by the Public Works Representative. Contractor shall follow all other hardwood mulch requirements for this application method.

(d) Method of Measurement

The measurement of hardwood mulch shall be per cubic yard. This shall include all cultivating, materials, and transportation.

(e) Basis of Payment

Hardwood mulch will be paid for at the contract unit price per cubic yard for the type specified. Payment will be made under:

Pay Items	Units
Hardwood Mulch.....	CYS

623.07 SEEDING

(a) Description

Contractor shall perform all operations under this section which shall consist of all labor, equipment, and materials necessary to complete the specified task.

The Contractor shall handle all seed in a manner that will insure protection from moisture, heat, or other conditions that would jeopardize viability or cause germination before installation.

Turf Grass and Native seed in the quantities and varieties required shall be furnished full-tagged and delivered in properly designated packages or bags as directed. Seeds shall be in accordance with the following requirements. Seeds shall contain none of the prohibited noxious weeds listed in 360 IAC 1-1-5 or any that are listed in the Acts of the General Assembly of the State. Restricted noxious weed seed listed in 360 IAC 1-1-6 shall not exceed 0.25% by weight in accordance with IC 15-15-1-32.

To seed at times other than the ones listed below, requires approval by Engineer/Project Manager.

(a) Regular Seeding Season

- Spring-March 1-June 1
- Fall- August 15-October 30
- Optimum seeding time is September to mid-October
- Summer seeding between June and August 15 are at the contractor's risk. Dry and hot weather difficulties are the responsibility of the Contractor.

(b) Materials

1) Seed Types

PARK MIX

The intended use for this mix is to establish a durable turf that tolerates common roadside pollutants, sidewalk salt, moderate use, and frequent mowing management. This mix is typically planted in park strips near residential housing or park areas. Seeding rate is 6 lbs. per 1,000 sq. ft. The contractor shall use Park Mix or approved proprietary equivalent. All seed must follow set seed requirements by law for the State of Indiana pertaining to but not limited to noxious weeds, germination, and testing requirements.

40% 'IQ' Perennial Ryegrass

30% 'Boreal' Creeping Red Fescue

30% 'Appalachian' Kentucky Bluegrass

NO-MOW MIX

The intended use for this mix is to establish a durable turf that tolerates common roadside pollutants, road salt, and mown twice a year. This mix is typically utilized on gradual slopes, level ground, or areas that infrequent mowing is tolerated. Seeding rate is 6 lbs. per 1,000 sq. ft. The contractor shall use Links Mix or approved proprietary equivalent. All seed must follow set seed requirements by law for the State of Indiana pertaining to but not limited to noxious weeds, germination, and testing requirements.