PROJECT	DESIGNATION
1702837	1702837
CONTRACT	BRIDGE FILE
R-41181	N/A

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
Pedestrian Bridge No. 5	Structural Steel Combination Truss	6 Spans 9'-5", 18'-1" , 18'-2" 100'-0" , 15'-0" , 14'-4"	Yellow River	11+03.36 "A"

KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION
N/A	

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE REHABILITATION PLANS

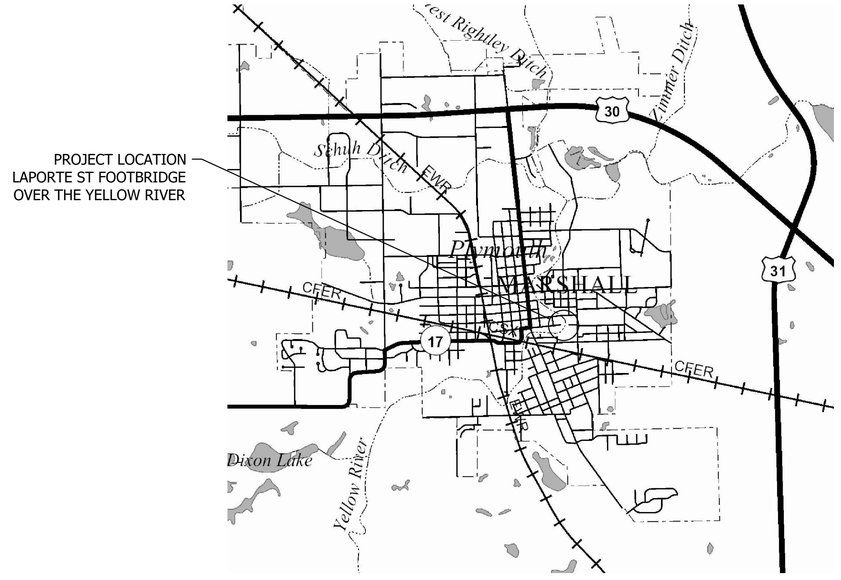
FOR SPANS OVER 20 FEET

ROUTE: LAPORTE STREET PEDESTRIAN BRIDGE OVER THE YELLOW RIVER

PROJECT NO. 1702837 (P.E., CONST.)

NO ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT

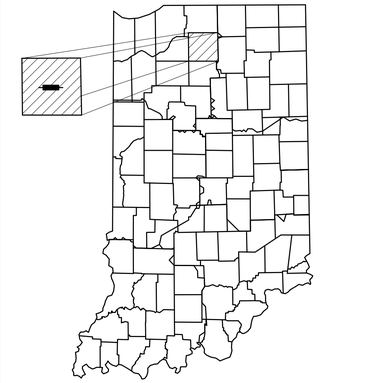
Pedestrian Bridge Rehabilitation Located 1.5 Miles South of U.S. 30
In Section 13, T-33-N, R-2-E, -Township, Marshall County



SCALE: 1" = 2000'

TRAFFIC DATA	
A.A.D.T. 2021	N/A (Pedestrian Only) V.P.D.
A.A.D.T. 2041	N/A (Pedestrian Only) V.P.D.
D.H.V.	N/A (Pedestrian Only) V.P.H.
DIRECTIONAL DISTRIBUTION	N/A % WBL N/A % EBL
TRUCKS	0 % D.H.V.
	0 % A.A.D.T.

DESIGN DATA	LaPorte Street Footbridge
DESIGN SPEED	N/A
PROJECT DESIGN CRITERIA	3R NON-FREEWAY
FUNCTIONAL CLASSIFICATION	PEDESTRIAN
RURAL/URBAN	URBAN
TERRAIN	LEVEL
ACCESS CONTROL	N/A



PROJECT LOCATION SHOWN BY
Marshall County

LATITUDE: 41°20'24.93"N LONGITUDE: 86°18'15.89"W

PROJECT LENGTH	
BRIDGE LENGTH:	0.035 MILE
ROADWAY LENGTH:	0.017 MILE
TOTAL LENGTH:	0.052 MILE
MAX. GRADE:	8.05 %

HCU: 071200010502

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

VS ENGINEERING
4275 North High School Road
Indianapolis, IN 46254
P: 317.293.3542
F: 317.293.4737
vsei@vsengineering.com
www.vsengineering.com

FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPT. OF TRANSPORTATION
APPROVED: _____ DATE
DIVISION ADMINISTRATOR

DRAFT NOT FOR CONSTRUCTION

PLANS PREPARED BY: VS ENGINEERING, INC. FAX: (317) 293-4737 TEL: (317) 293-3542 PHONE NUMBER
CERTIFIED BY: _____ DATE
APPROVED FOR LETTING: _____ INDIANA DEPARTMENT OF TRANSPORTATION DATE

BRIDGE FILE
N/A
DESIGNATION
1702837

SURVEY BOOK	SHEET
	1 of 7
CONTRACT	PROJECT
R-41181	1702837

PRINT DATE: 3/18/20
PLOT SCALE: 1:1 EDIT DATE: 7/12/11 - 3:25 PM EDITED BY: RHAINES DRAWING FILE: F:\2018\18-3988 LAPORTE STREET FOOTBRIDGE\30 SHEETDRAWINGS\00 DRAWINGS\1 TITLE AND INDEX.DWG

UTILITIES

UTILITY	OWNER	ADDRESS
WATER & SEWER	PLYMOUTH SEWER & WATER DEPARTMENT	900 OAKHILL AVE. PLYMOUTH, IN 46563 ATTN: DONNIE DAVIDSON (574) 936-3017
ELECTRIC	NIPSCO ELECTRIC	ATTN: DAVE SCHAASFMA dshaasfma@insource.com (866) 732-6243
GAS	NIPSCO GAS	ATTN:DAVE SCHAASFMA dshaasfma@insource.com (866) 732-6243
COMMUNICATIONS	CENTURYLINK	944 S. Central Ave. Lima, OH 45884 ATTN: John Unverferth (419) 226-6342 john.c.unverferth@centurylink.com
COMMUNICATIONS	COMCAST	1920 E McKINLEY AVE. MISHAWAKA, IN 46545 ATTN: JAY CASTELLO (847) 789-1039 jay_castello@cable.comcast.com
COMMUNICATIONS	ST. JOE VALLEY METRONET	130 S MAIN STREET #275 SOUTH BEND, IN 46601 ATTN: Ben Hudson (574) 968-5353 bhudson@metrozing.org
COMMUNICATIONS	WINDSTREAM	800 N DURAND RD CORUNNA, MI 48817 ATTN: CHRISTOPHER ROGERS (812) 253-1554 christopher.rogers@windstream.com

HOLEY MOLEY SAYS

"DIG SAFELY"

"IT'S THE LAW"

CALL 2 WORKING DAYS BEFORE YOU DIG

1-800-382-5544

CALL TOLL FREE

PER INDIANA STATE LAW IC8-1-26.
IT IS AGAINST THE LAW TO EXCAVATE WITHOUT NOTIFYING THE UNDERGROUND LOCATION SERVICE TWO (2) WORKING DAYS BEFORE COMMENCING WORK.

REVISIONS

REV #	SHEET NO.	DATE	DESCRIPTION OF REVISION

INDEX

DRAFT NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RDH DRAWN: JRT

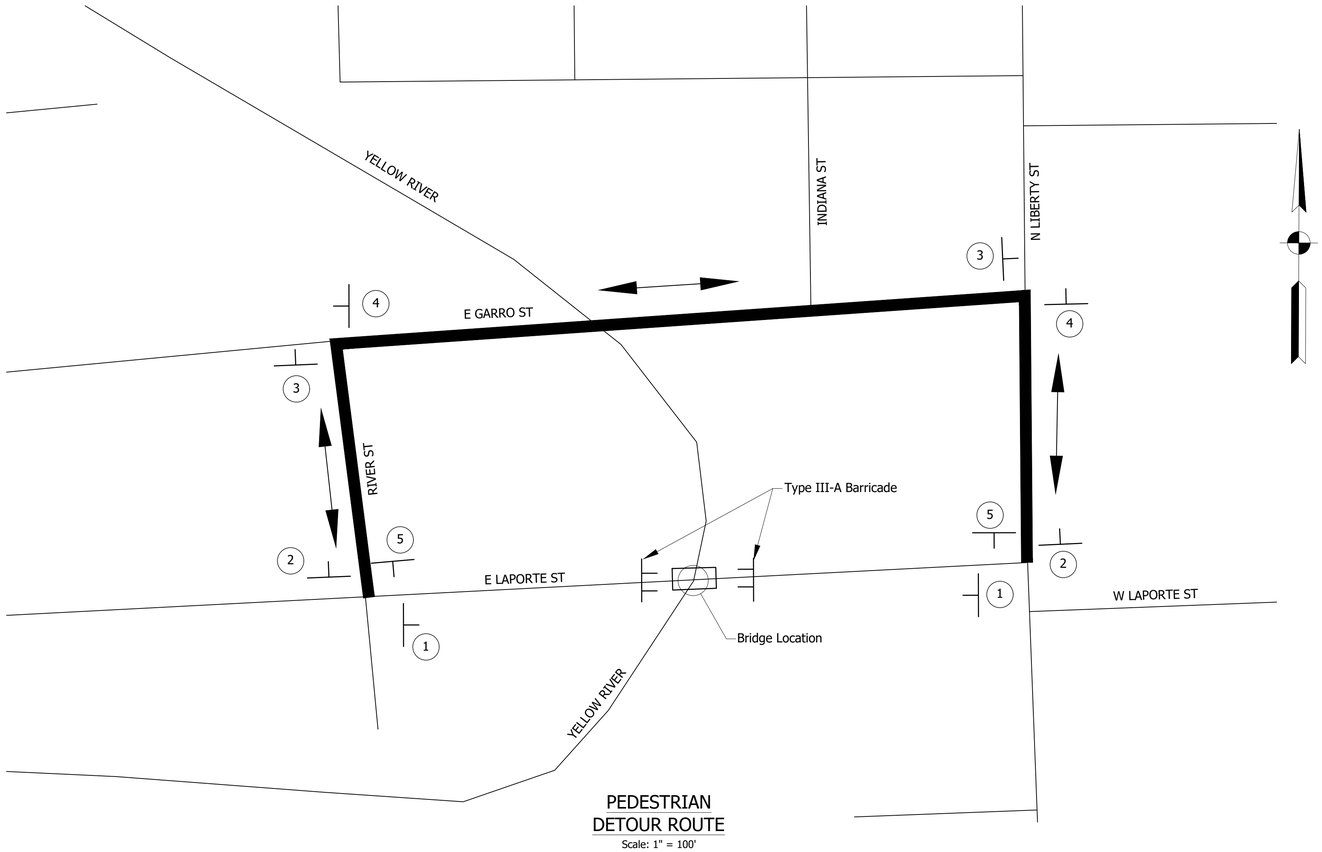
CHECKED: DJK CHECKED: RDH

INDIANA DEPARTMENT OF TRANSPOTATION

INDEX

HORIZONTAL SCALE	BRIDGE FILE
	N/A
VERTICAL SCALE	DESIGNATION
	1702837
SURVEY BOOK	SHEET
	2 of 7
CONTRACT	PROJECT
R-41181	1702837

PRINT DATE: 3/18/20
PLOT SCALE: 1:1 EDIT DATE: 7/12/11 - 3:25 PM EDITED BY: RHAINES DRAWING FILE: F:\20181\18-3988 LAPORTE STREET FOOTBRIDGE\30 SHEETDRAWINGS\00 DRAWINGS\1 TITLE AND INDEX.DWG



PEDESTRIAN
DETOUR ROUTE
Scale: 1" = 100'

MAINTENANCE OF TRAFFIC QUANTITIES:

Maintaining Traffic	1 LS
Construction Sign B	2 Each
Detour Route Marker Assembly	8 Each
Type III-A Barricade	24 LFT

NOTES:

1. Driveway access to remain open at all times.
2. Refer to INDOT Standard Drawings E801-TCDT, E 801-TCSN, E 801-TCLG For Further Details of Traffic Control Signs.

DETOUR LEGEND

- CONSTRUCTION SIGN
- BARRICADE TYPE "III-A"
- DIRECTION OF PEDESTRIAN DETOUR
- CONSTRUCTION ZONE
- PEDESTRIAN DETOUR ROUTE

1 — R9-9 (24"X12")
SIDEWALK CLOSED

2 — DETOUR XM4-8 (24"x18")
LAPORTE ST SIDEWALK
M6-3 (21"x15")

3 — DETOUR XM4-8 (24"x18")
LAPORTE ST SIDEWALK
M6-1(R)(21"x15")

4 — DETOUR XM4-8 (24"x18")
LAPORTE ST SIDEWALK
M6-1(L)(21"x15")

5 — END XM4-6S (24"x12")
DETOUR XM4-8 (24"x18")
LAPORTE ST SIDEWALK

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RDH DRAWN: JRT
CHECKED: DJK CHECKED: RDH

INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	N/A
VERTICAL SCALE	DESIGNATION
AS SHOWN	1702837
DRAWING	SHEET
of	3 of 7
CONTRACT	PROJECT
R-41181	1702837

PRINT DATE: 3/18/20
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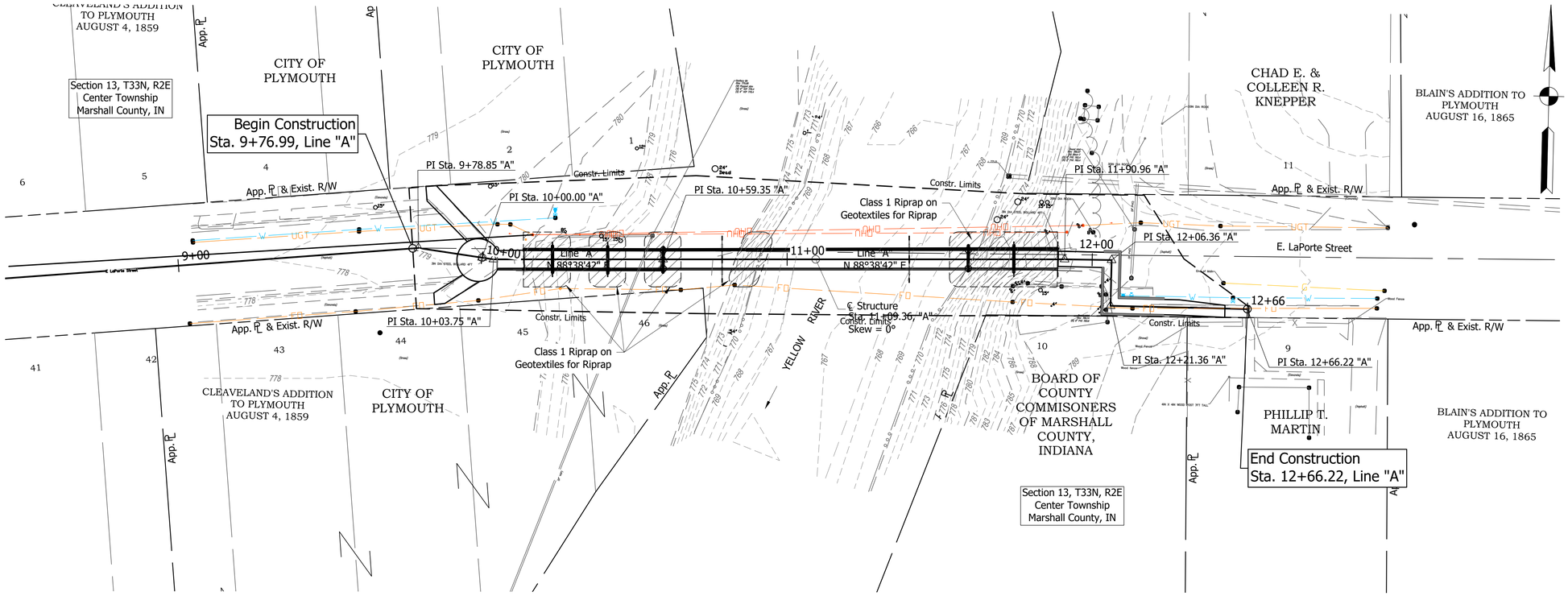
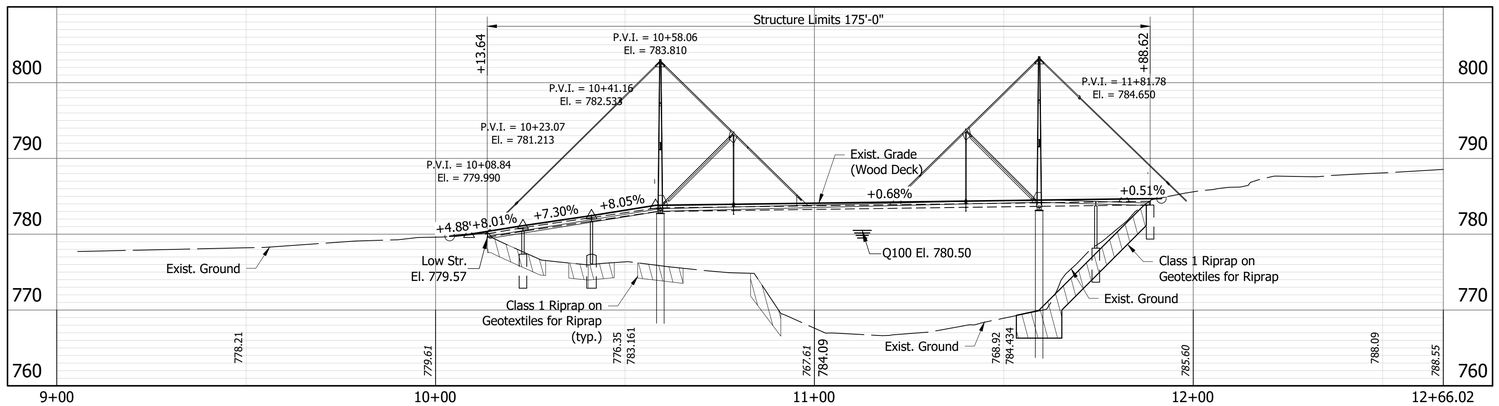


SITUATION PLAN

SCALE: 1" = 20'-0" CONTOUR INTERVAL = 1 FT.



PROFILE ON PROPOSED ℄ ROADWAY

SCALE: HORIZ. 1" = 20'-0" VERT. 1" = 10'-0"

EXISTING STRUCTURE

The present structure was built in 1898. It was added to the National Register of Historic Places on July 23, 1981 (NPS NRIS# 81000001). Various repairs have been performed on the bridge. The existing structure will remain in place.

HYDRAULIC DATA

Waterway Opening Required	1,050.00	sft.
Waterway Opening Provided	1,050.00	sft.
Drainage Area	294.00	sq. mi.
Drainage Discharge Q_{100}	4,180.00	cfs.
Velocity	5.00	ft./s
Q_{100} Elev.	778.00	ft.
Estimated Scour Elev.		ft.
Backwater at Q_{100}	0.06	ft.
Existing Waterway Opening	1,050.00	sft.
Existing Backwater	0.06	sft.
Low Structure Elev.	783.44	ft.
Existing Low Structure Elev.	783.44	ft.

HYDRAULIC SCOUR DATA

Q_{100} Discharge	4,180	cfs.
Q_{100} Elev.	780.50	ft.
Velocity at Q_{100}	5.00	cfs.
Scour Depth (Contraction)	0.00	ft.
Scour Depth (Total)	2.00	ft.
Low Scour Elev.	778.00	ft.
Q_{500} Discharge	31,450	cfs.
Q_{500} Elev.	578.40	ft.
Velocity at Q_{500}	2.48	cfs.
Scour Depth (Contraction)	0.00	ft.
Scour Depth (Total)	0.00	ft.
Low Scour Elev.	555.50	ft.

STRUCTURAL STEEL COMBINATION TRUSS
6 SPANS @ 9'-5", 18'-1", 18'-2"
100'-0", 15'-0", 14'-4"
5'-7" CLEAR ROADWAY SKEW: 0°
LAPORTE STREET FOOTBRIDGE OVER YELLOW RIVER
MARSHALL COUNTY

DRAFT NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RDH DRAWN: SJ

CHECKED: DJK CHECKED: RDH

INDIANA DEPARTMENT OF TRANSPORTATION

LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1702837
DRAWING	SHEET
of	4 of 7
CONTRACT	PROJECT
R-41181	1702837

PRINT DATE: 3/18/20
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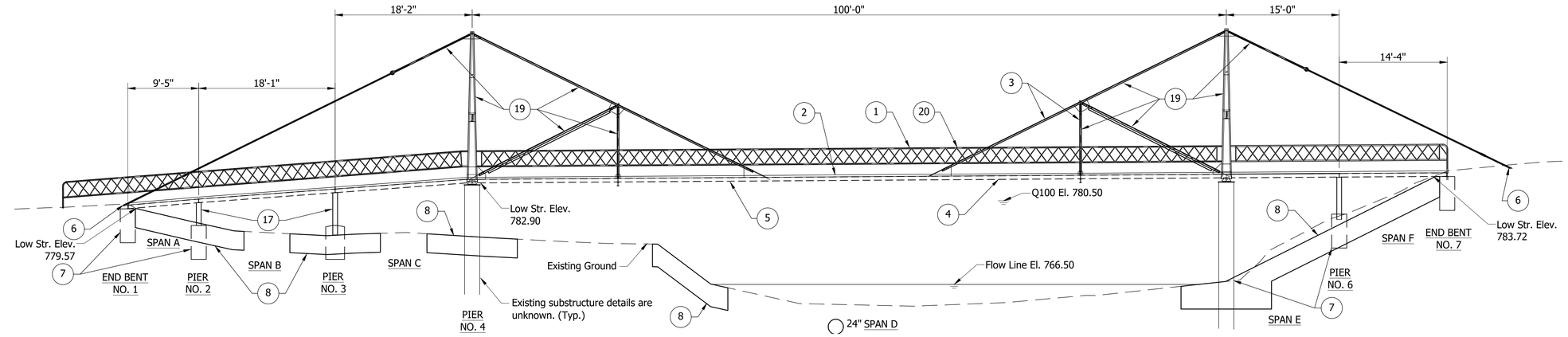
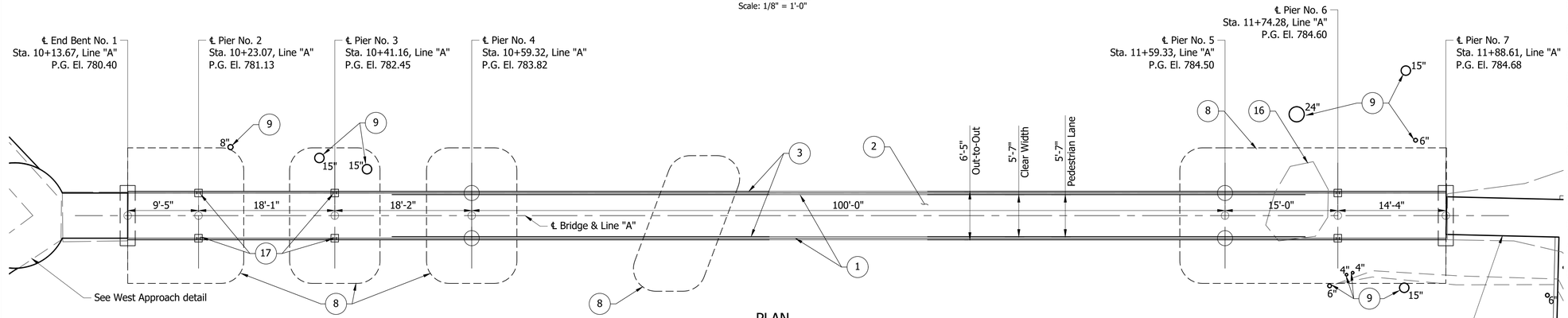
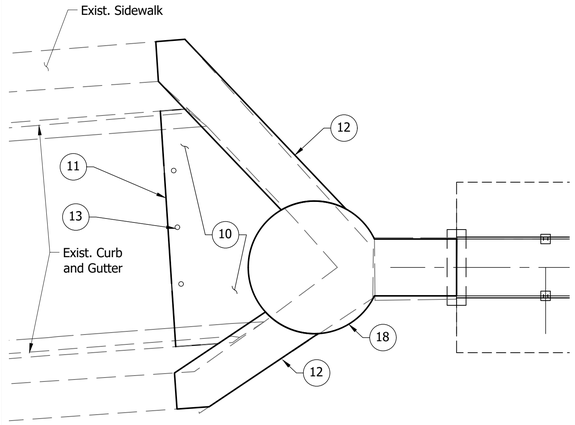


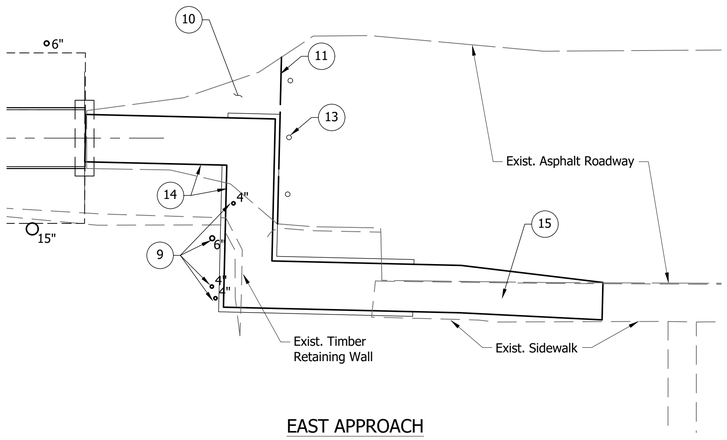
ELEVATION
Scale: 1/8" = 1'-0"



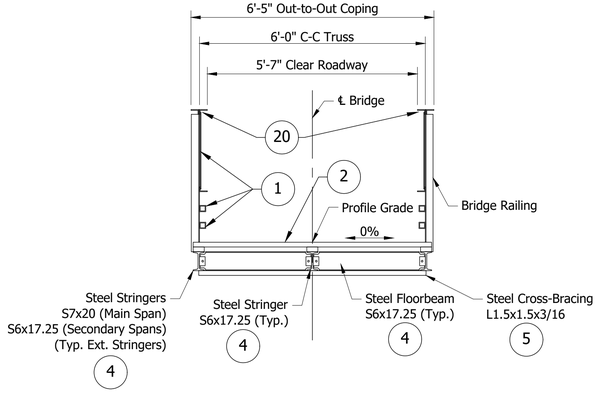
PLAN
Scale: 1/8" = 1'-0"



WEST APPROACH
Scale: 1/8" = 1'-0"



EAST APPROACH
Scale: 1/8" = 1'-0"



TYPICAL SECTION
Scale: 1/2" = 1'-0"

LEGEND

1. Add two longitudinal bars spanning between the existing bridge railing posts. Place an additional set of crossing diagonal members with the existing members in accordance with current railing safety requirements per AASHTO LRFD Bridge Design Specifications, 8th Edition (Section 13.7.3.2).
2. Replace existing timber bridge deck with composite decking.
3. Remove pack rust. Clean and paint all exposed steel with the current INDOT Structural Steel Paint System. (All steel members)
4. Remove and replace floorbeams and stringers. After installation, clean and paint with the current INDOT Structural Steel Paint System.
5. Remove existing lateral bracing and add additional lateral bracing underneath the bridge deck.
6. Excavate to expose the anchorage of the steel chords. Notify the engineer of the condition of the steel chord anchorage. If the anchorage appears to be unstable or deteriorating, replace it with a new concrete anchorage.
7. Notify the engineer of any poor substructure conditions.
8. Place Class 1 Riprap on Geotextiles for Riprap.
9. Remove trees.
10. Remove existing asphalt pavement and replace with sod and topsoil.
11. Sawcut existing pavement.
12. Replace existing sidewalk.
13. Place bollards 6' apart.
14. Place curb ramp to connect to the existing sidewalk.
15. Remove existing sidewalk.
16. Remove existing concrete slope protection.
17. Remove and replace secondary columns.
18. Remove existing pavement and place decorative paver landing.
19. Install aesthetic lighting on truss members.
20. Install pedestrian lighting on railing.

DESIGN DATA

Original design loading is unknown.

DESIGN LOADINGS

Designed for 90 psf pedestrian loading in accordance with AASHTO LRFD Guide Specifications for the Design of Pedestrian Bridges (2009).

EXISTING STRUCTURE

The present structure was built in 1898. It was added to the National Register of Historic Places on July 23, 1981 (NPS NRIS# 81000001). Various repairs have been performed on the bridge. The existing structure will remain in place.

GENERAL NOTES

1. Any missing rivets or bolts shall be replaced with round-headed bolts.
2. Where new work is fitted to old work, the contractor shall check all dimensions and conditions in the field and report all erros and discrepancies to the engineer and assume responsibility for their correctness and fit of the new part to the old.
3. Stations are for reference only.
4. Existing beam shapes are approximate.

STRUCTURAL STEEL COMBINATION TRUSS
6 SPANS @ 9'-5", 18'-1", 18'-2" 100'-0", 15'-0", 14'-4"
5'-7" CLEAR ROADWAY SKEW: 0°
LAPORTE STREET FOOTBRIDGE OVER YELLOW RIVER
MARSHALL COUNTY

DRAFT NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RDH DRAWN: JRT

CHECKED: DJK CHECKED: RDH

INDIANA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION
AS SHOWN	1702837
DRAWING	SHEET
of	5 of 7
CONTRACT	PROJECT
R-41181	1702837

PRINT DATE: 3/18/20
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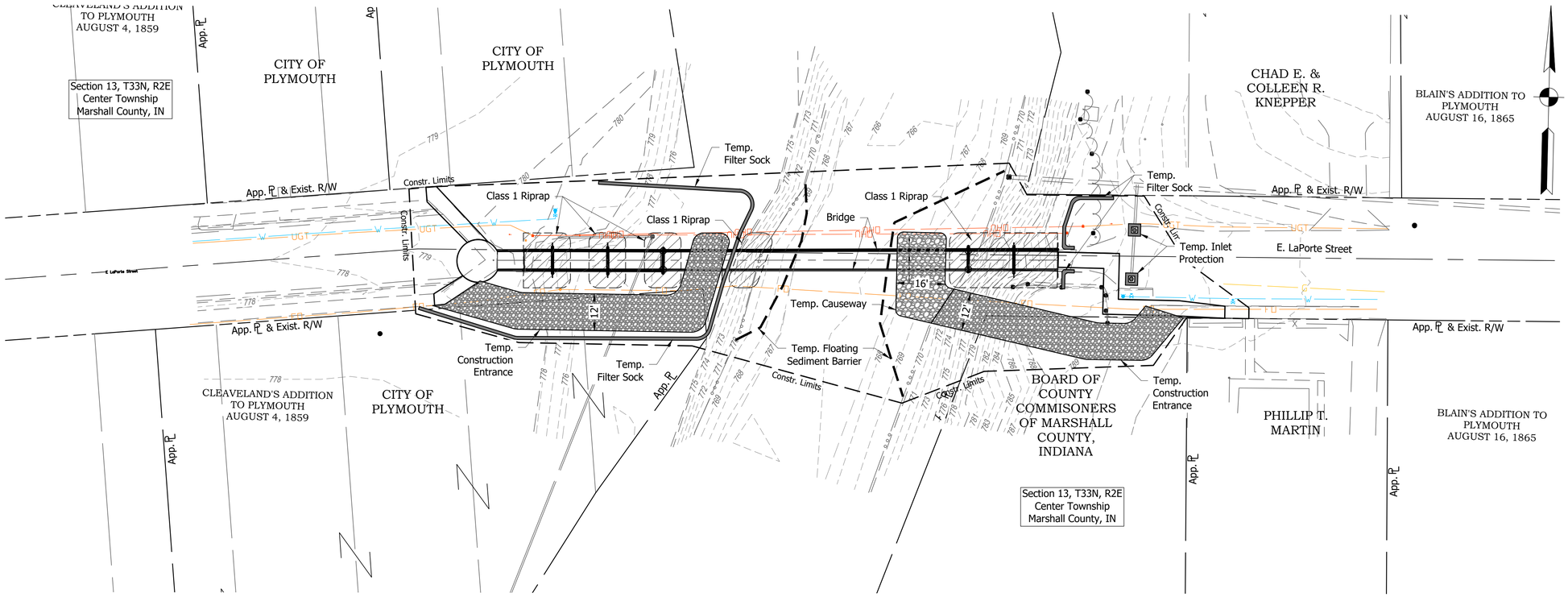
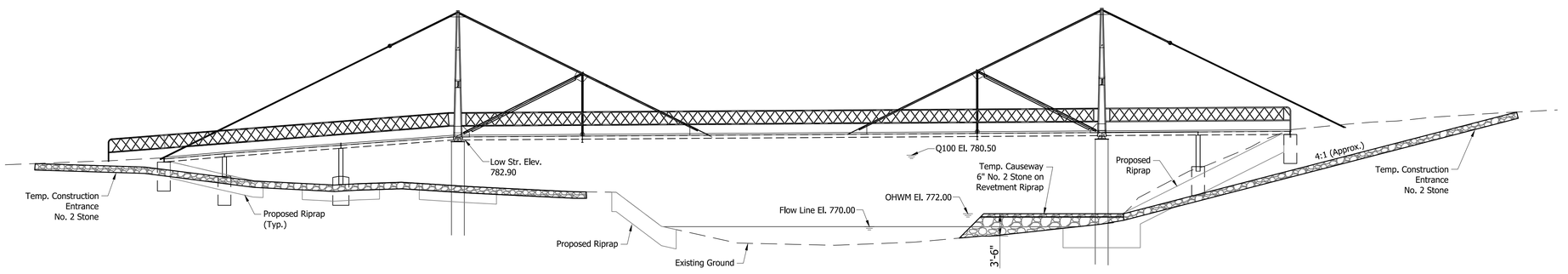


PLAN
SCALE: 1" = 20'-0" CONTOUR INTERVAL = 1 FT.



PROFILE
SCALE: 1" = 10'-0"

SEEDING:

Temporary Seeding
Temporary seeding shall be applied, in accordance with INDOT Specifications, to exposed areas that are within the construction limits, but above the Ordinary High Water Mark.

Permanent Seeding
All disturbed areas within the construction limits, but above the Ordinary High Water Marki, needing seeding restoration shall be re-seeded using Seed Mixture Floodplain.

NOTES:

1. No dewatering shall occur without prior approval from DNR.
2. See INDOT Standard Drawing E 205-TECP for Construction Entrance details. Construction Entrance locations shall be at the discretion of the contractor.

DRAFT NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RDH DRAWN: JRT
CHECKED: DJK CHECKED: RDH

INDIANA DEPARTMENT OF TRANSPORTATION

EROSION CONTROL & TEMPORARY CAUSEWAY

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	N/A
VERTICAL SCALE	DESIGNATION
AS SHOWN	1702837
DRAWING	SHEET
of	6 of 7
CONTRACT	PROJECT
R-41181	1702837

PRINT DATE: 3/18/20
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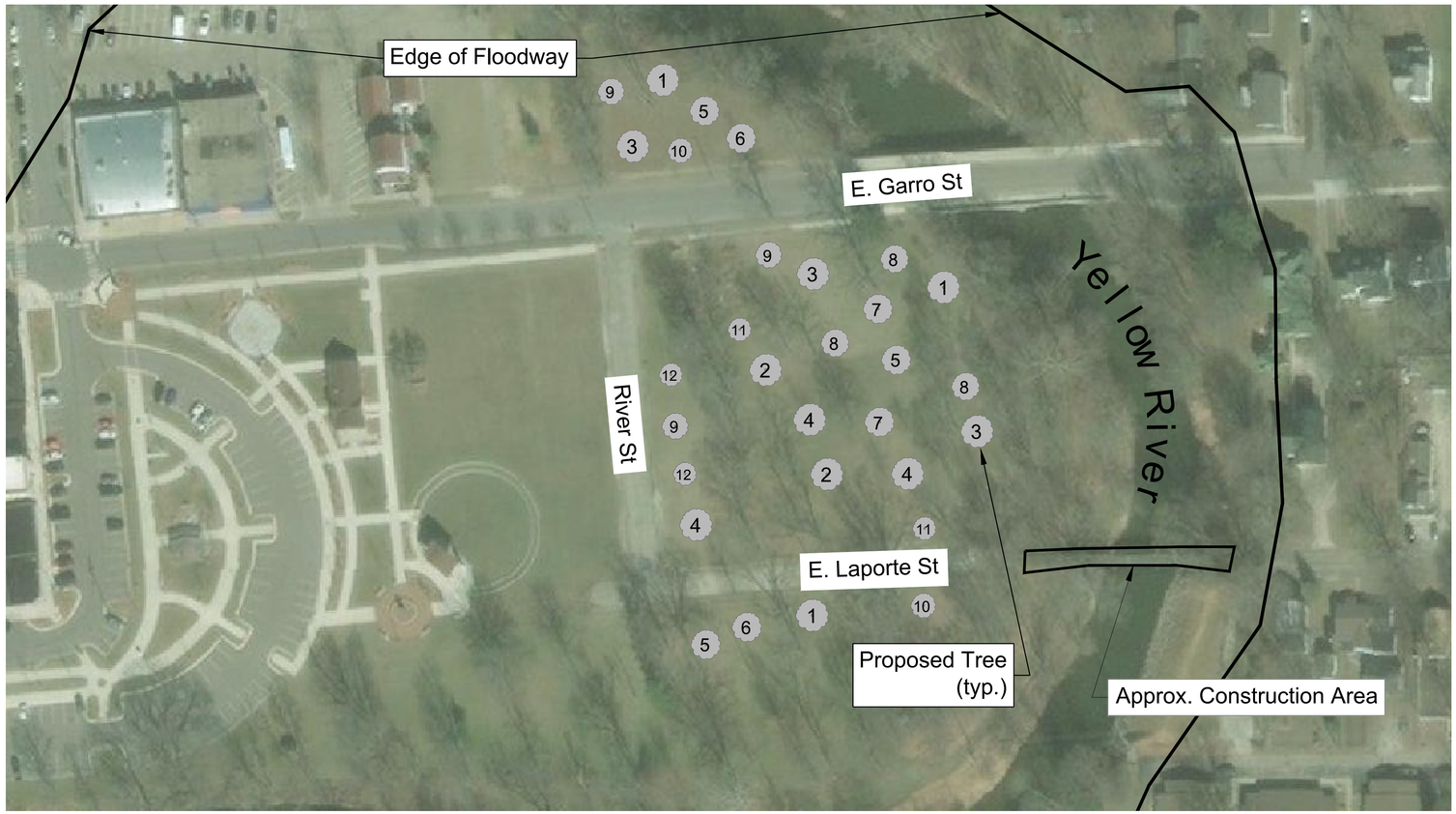
Canopy Trees

Key Number	Common Name	Scientific Name	Stock Size	Type of Plant	Number of Trees Shown on Plan
1	American Sycamore	Platanus occidentalis	2"	Large Canopy Tree	3
2	Sugar Maple	Acer saccharum	2"	Large Canopy Tree	2
3	Northern Red Oak	Quercus rubra	2"	Large Canopy Tree	3
4	Shagbark Hickory	Carya ovata	2"	Large Canopy Tree	3
5	Pin Oak	Quercus palustris	2"	Small Canopy Tree	3
6	River Birch	Betula nigra	2"	Small Canopy Tree	2

Understory Trees / Shrubs

Key Number	Common Name	Scientific Name	Stock Size	Type of Plant	Number of Trees Shown on Plan
7	Ohio Buckeye	Aesculus glabra	2"	Large Understory Tree	2
8	American Hornbeam	Carpinus caroliniana	2"	Medium Understory Tree	3
9	Redbud	Cercis canadensis	2"	Small Understory Tree	3
10	Staghorn Sumac	Rhus typhina	2"	Large Shrub	2
11	Red-Osier Dogwood	Cornus sericea (aka (C. Alba))	2"	Medium Shrub	2
12	Prickly Ash	Zanthoxylum americanum	2"	Medium Shrub	2



RIVER PARK SQUARE
Owner: City of Plymouth

DRAFT NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: RDH DRAWN: DJP

CHECKED: DJK CHECKED: RDH

INDIANA
DEPARTMENT OF TRANSPORTATION

TREE MITIGATION PLAN

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	N/A
VERTICAL SCALE	DESIGNATION
AS SHOWN	1702837

DRAWING			SHEET	
	of		7	of 7
CONTRACT			PROJECT	
R-41181			1702837	