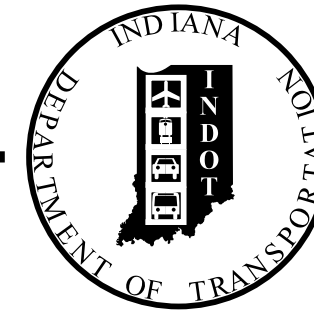


PROJECT 1600503	DESIGNATION 1600503
CONTRACT B-40407	BRIDGE FILE NO. 058-03-10186

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

ROUTE: SR 58 AT: RP 118+94

PROJECT NO. 1600503 P.E.
1600503 R/W
1600503 CONST.

Bridge Replacement on SR 58 over East Fork White Creek
Located 3.35 Miles West of Interstate 65
Section 18, T-8-N, R-5-E, Ohio Township, Bartholomew County.

TRAFFIC DATA

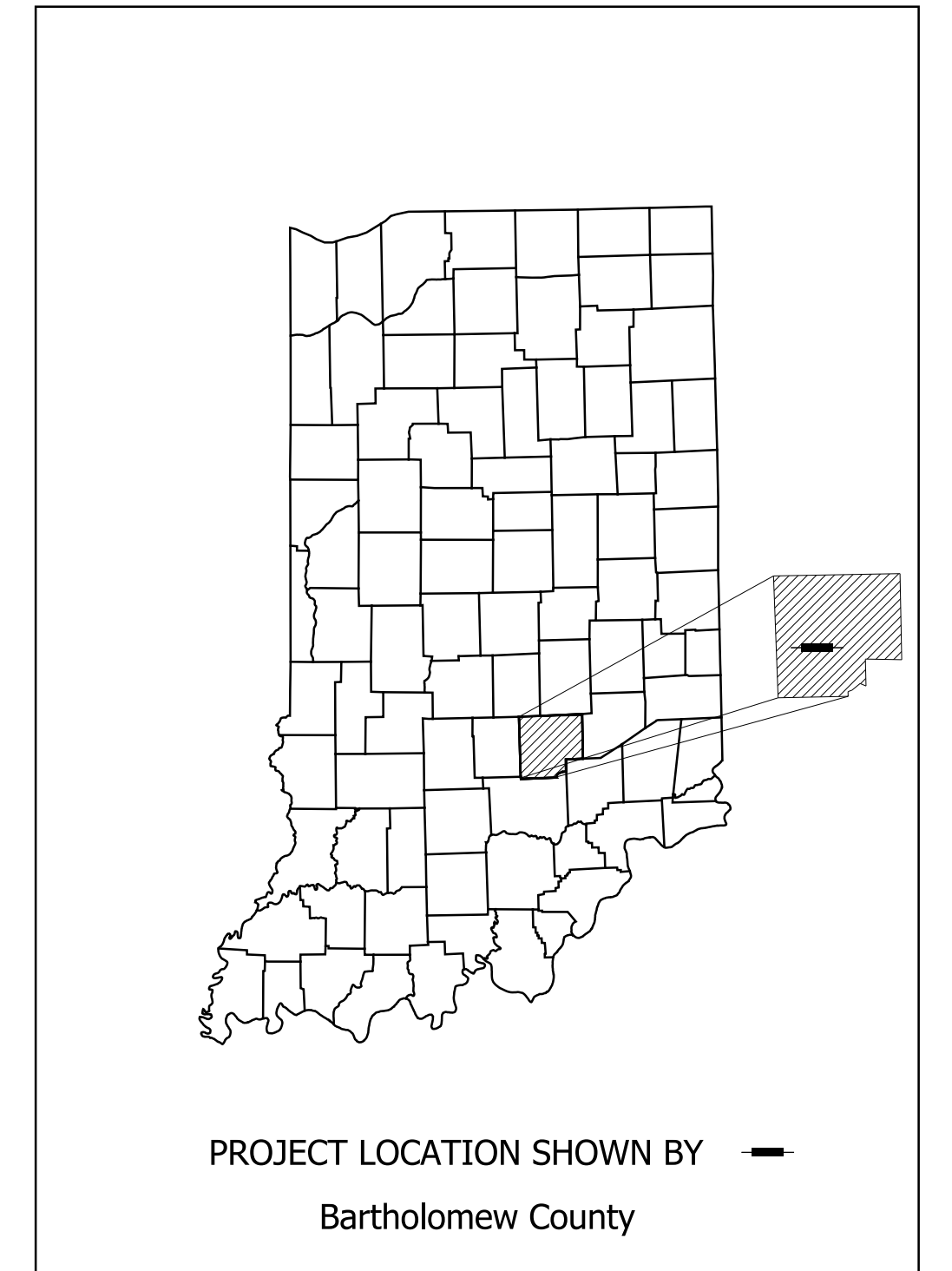
A.A.D.T. (2020)	2,140	V.P.D.
A.A.D.T. (2042)	2,140	V.P.D.
D.H.V (2042)	189	V.P.H.
DIRECTIONAL DISTRIBUTION	55.41	%
TRUCKS	3.84	% A.A.D.T.
	4.26	% D.H.V.

DESIGN DATA

DESIGN SPEED	45	M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)	
FUNCTIONAL CLASSIFICATION	STATE MAJOR COLLECTOR	
RURAL/URBAN	RURAL	
TERRAIN	LEVEL	
ACCESS CONTROL	NONE	

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
058-03-10186	CONT. COMP. PRESTRESSED CONCRETE BOX BEAM	3 SPANS: 1 @ 37'-9", 1 @ 47'-6", 1 @ 37'-9" No Skew	East Fork White Creek	15+20.00 "PR-A"

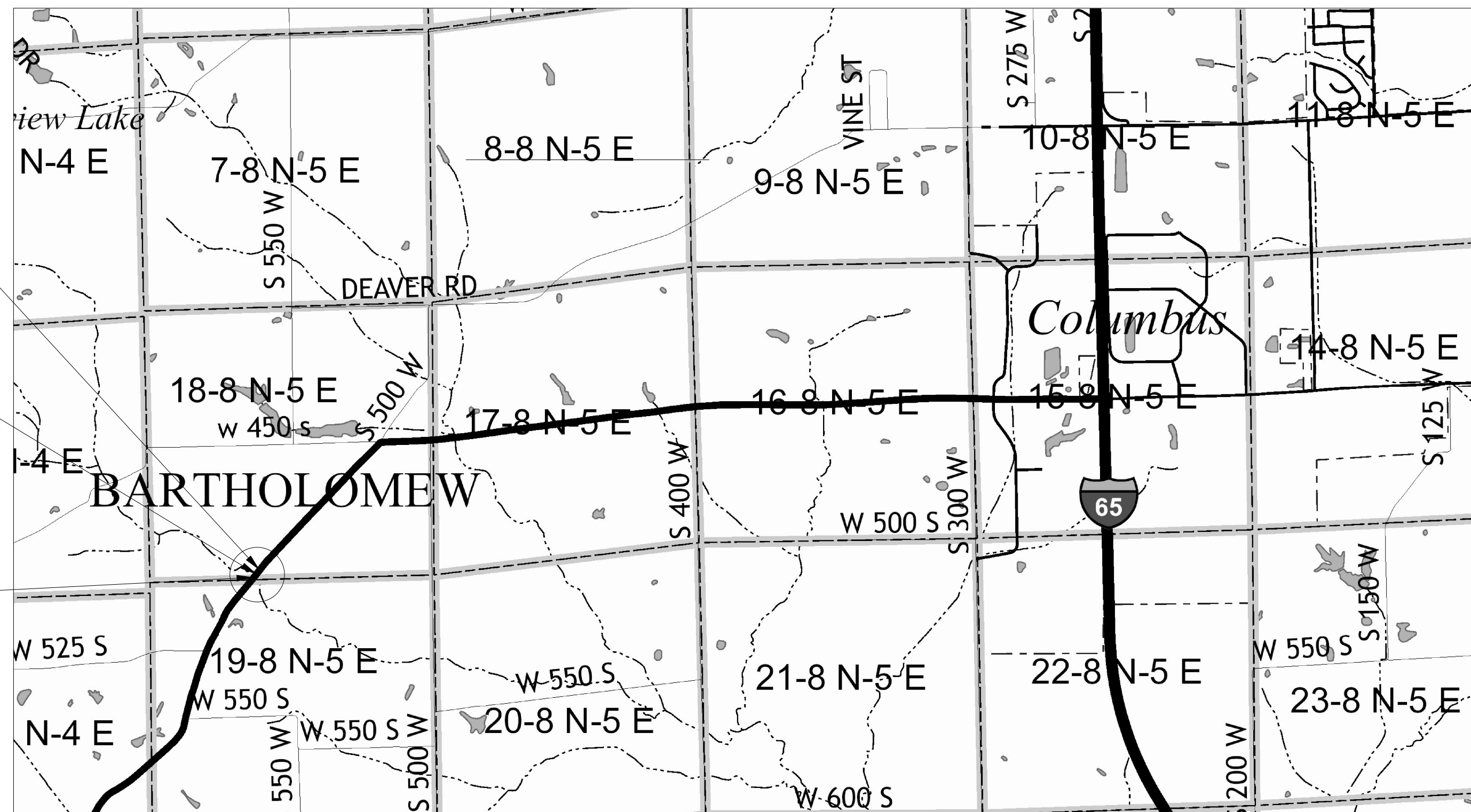
KIN PROJECT INFORMATION	
DESIGNATION	PROJECT DESCRIPTION



LATITUDE: 39° 07' 30.94" N LONGITUDE: 86° 00' 58.75" W

HUC: 05120206050040

BRIDGE LENGTH:	0.024	MI.
ROADWAY LENGTH:	0.085	MI.
TOTAL LENGTH:	0.109	MI.
MAX. GRADE:	2.77	%



End Project 1600503
Sta. 18+00.00 "PR-A"

Structure 058-003-10186
Over East Fork White Creek
Sta. 15+20.00 "PR-A"

Begin Project 1600503
Sta. 12+25.00 "PR-A"

SCALE: 1" = 2000'

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



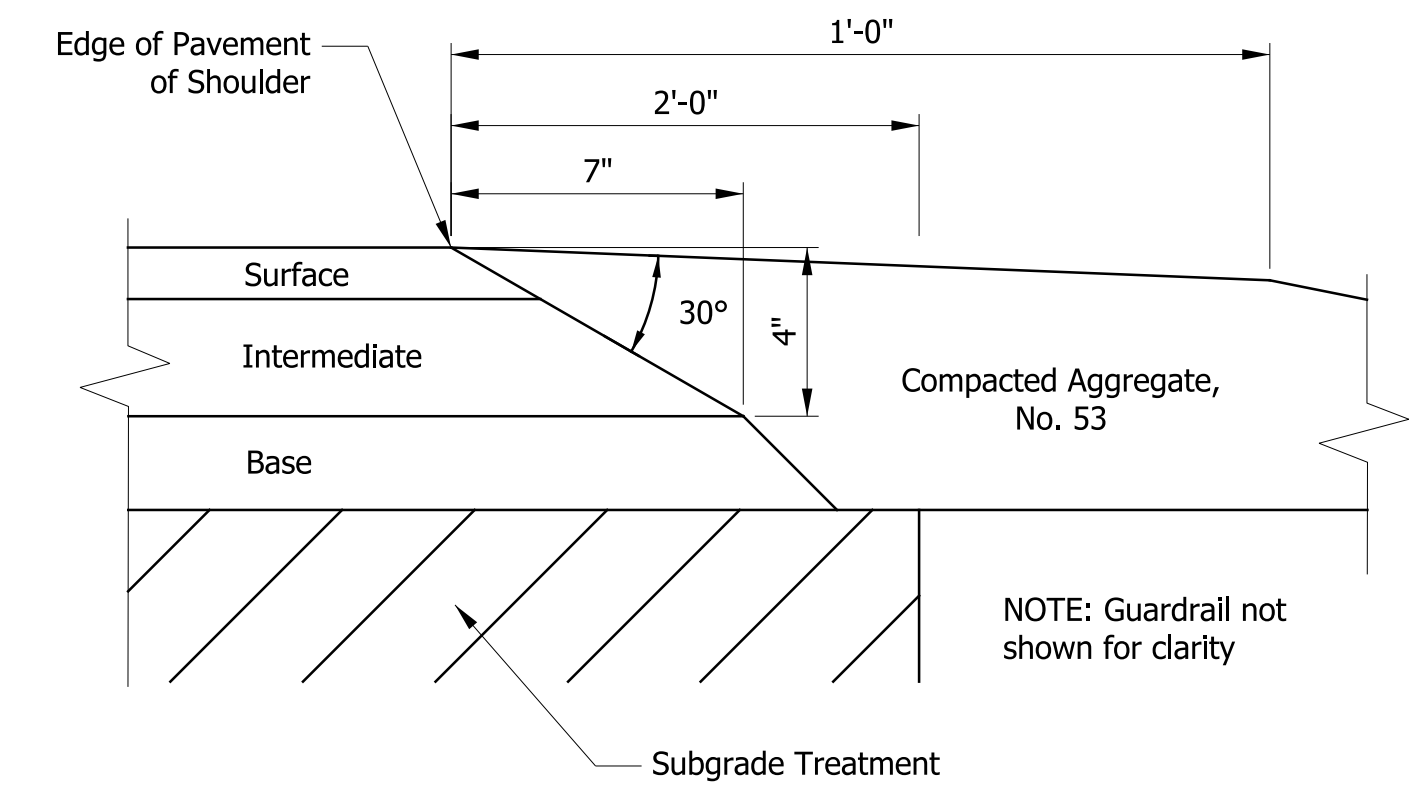
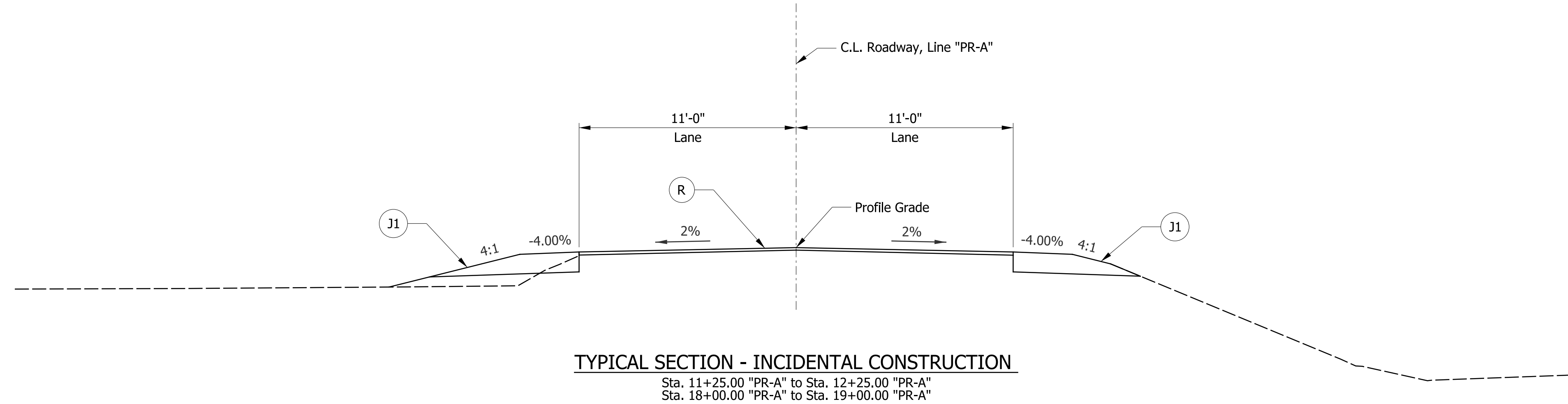
PLANS PREPARED BY: **STRAND ASSOCIATES, INC.** (812) 372-9911
629 WASHINGTON ST., COLUMBUS, IN 47201 PHONE NUMBER

CERTIFIED BY: _____ DATE _____

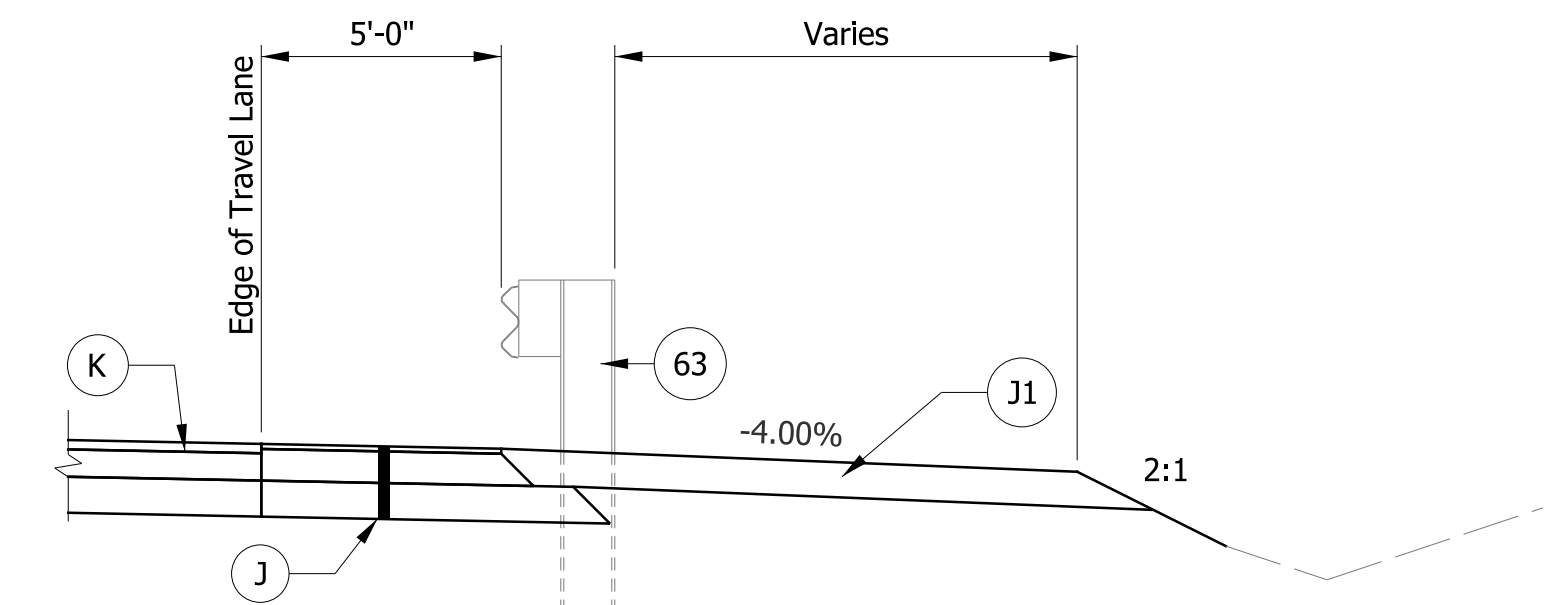
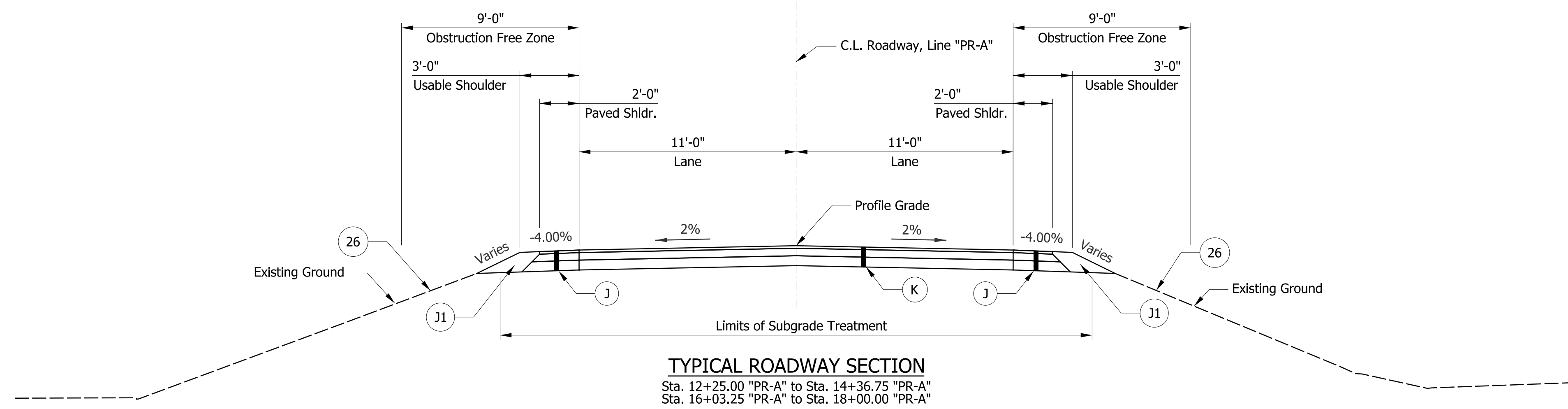
APPROVED FOR LETTING: _____ DATE _____
INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FILE NO. 058-03-10186	
DESIGNATION 1600503	
SURVEY BOOK	SHEETS 1 of 24
CONTRACT B-40407	PROJECT 1600503

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SAFETY EDGE ON HMA PAVEMENT

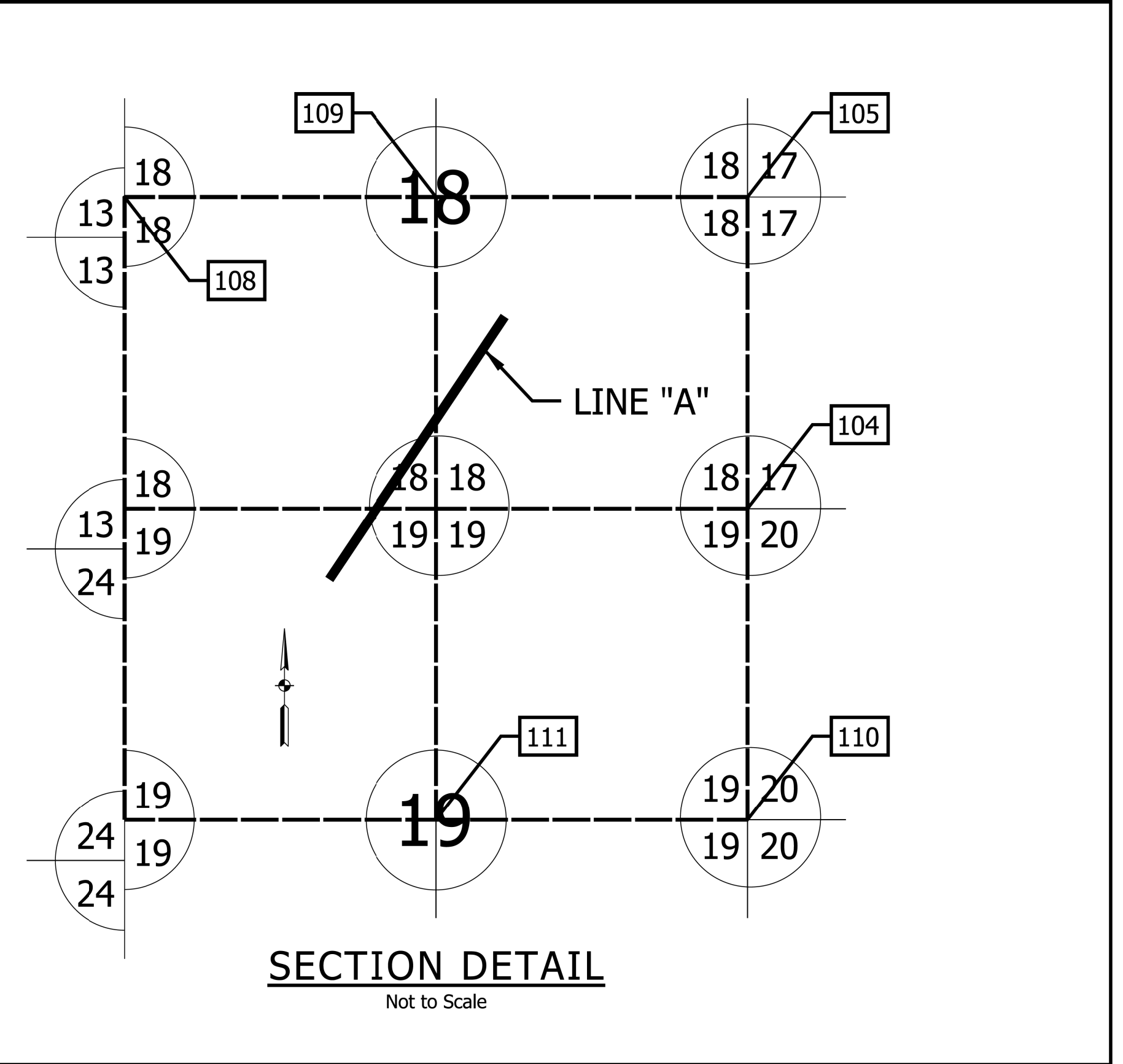
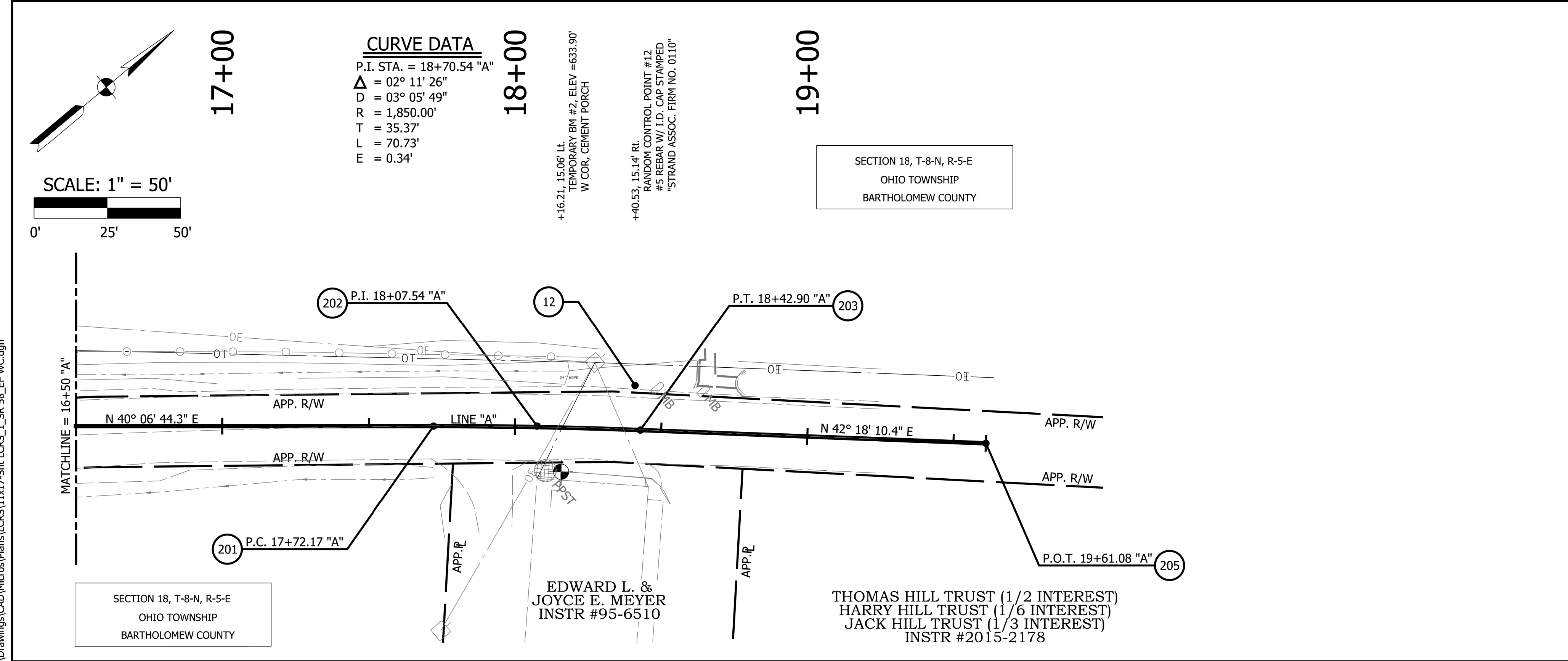
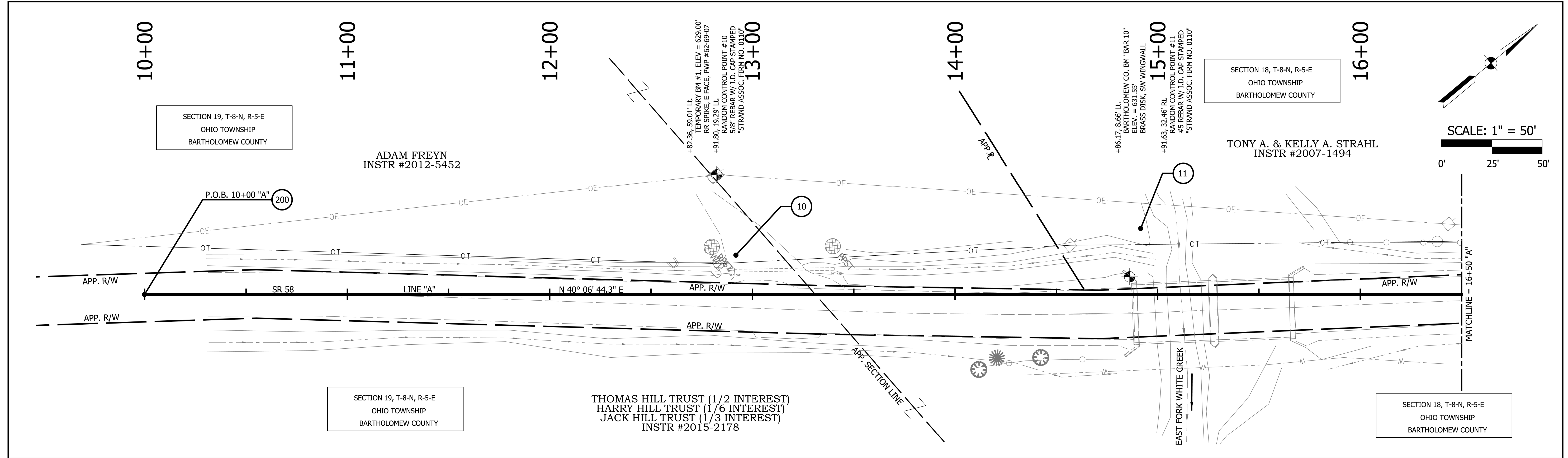


SHOULDER TREATMENT WITH GUARDRAIL

Legend

- (26) Seed Mixture, R
- (63) Guardrail, MGS, W-Beam, 6'-3" Spacing
- (J) Full Depth HMA for Shoulder:
 165#/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm on
 275 #/syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on
 660 #/syd QC/QA-HMA, 2, 64, Base, 19.0 mm on
 Subgrade Treatment, Type ID
- (J1) Compacted Aggregate No. 53
- (K) Full Depth HMA Pavement:
 165#/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm on
 275 #/syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on
 660 #/syd QC/QA-HMA, 2, 64, Base, 19.0 mm on
 Subgrade Treatment, Type ID
- (R) Transition Milling:
 165 #/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm on
 Milling, Asphalt, 1.5 in.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE NO.
			1/4" = 1'-0"	058-03-10186
DESIGNED: DHS	DRAWN: DHS	TYPICAL CROSS SECTION	VERTICAL SCALE	DESIGNATION NO.
CHECKED: DEB	CHECKED: DEB		1600503	
		S.R. 58 OVER EAST FORK WHITE CREEK	SURVEY BOOK NO.	SHEETS
			3	of 24
			CONTRACT NO.	PROJECT NO.
			B-40407	1600503



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SURVEY STARTED	AUGUST 14, 2018
SURVEY COMPLETED	OCTOBER 23, 2018
ROUTE SURVEY SHEETS	1 of 3



FIELD SURVEYOR STATEMENT	
THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF 865 I.A.C. 1-12-20 THROUGH 1-12-25 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OF DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.	
DRAWN: MCP	CHECKED: JEF

I AFFIRM, UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW.

PREPARED BY: Jacob E. Fitzsimmons, PLS

REGISTERED LAND SURVEYOR _____ DATE _____

INDIANA
DEPARTMENT OF TRANSPORTATION

SR 58 OVER EAST FORK OF WHITE CREEK
LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE NO.
1" = 50'	058-03-05885 C
VERTICAL SCALE	DESIGNATION NO.
N/A	1600503
SURVEY BOOK NO.	SHEETS
	4 of 24
CONTRACT NO.	PROJECT NO.
B-40407	1600503

SURVEYOR'S REPORT

GENERAL

- All units of measure are in English units.
- All monument reference ties are shown on this Survey Book.
- The item numbers on this Survey Book refer to actual field survey monument numbers used for control and topography.
- The number of significant digits shown are for calculation purposes only and do not intend to imply the precision of the original measurements.
- The field work for this survey was started on August 14, 2018 and completed in October 23, 2018.

LOCATION OF SURVEY

This Location Control Route Survey was completed for a bridge replacement project. The entirety of this project is within the bounds of the INDOT Seymour District. This survey is located in the southwest quarter of Section 18, and the northwest quarter of Section 19; Township 8 North, Range 5 East of the Second Principal Meridian, Ohio Township, Bartholomew County, Indiana. This project is located on S.R. 58, 3.35 miles west of I-65 and has a total length of 1,961 feet.

PURPOSE OF SURVEY

The purpose of this survey was to obtain data, establish a horizontal alignment (Line "A"), and vertical control for the design and construction of said project and reference said alignment to the United States Public Land Survey Subdivision Corners along the above mentioned route. Although found monuments and property lines are depicted, this survey is not intended to be an original survey or retracement survey. Property lines, corners, and right-of-way lines are shown as approximate location only.

CONTROL AND BASIS OF BEARING

The basis of bearing and horizontal control for this survey was established using the Indiana Geospatial Coordinate System's (InGCS) "Bartholomew" zone per NAD 83 (2011) epoch 2010.00 and reported in U.S. Survey Feet. This zone was created to minimize the differences between ground-measured horizontal distances and the corresponding grid coordinate distances within the county.

The InGCS "Bartholomew" zone coordinates and associated metadata are listed here on to facilitate a seamless workflow between various geospatial industries (e.g. surveying, civil engineering, construction, etc.), to provide a means of reestablishment of the aforementioned alignment(s) or any monumentation that has become destroyed.

InGCS "Bartholomew" Zone Parameters
 Geometric Datum: NAD 83(2011) epoch 2010.00
 Projection Type: Transverse Mercator
 Latitude of Grid Origin: 39°00' 00" North Latitude
 Central Meridian: 85°51' 00" West Longitude
 Central Meridian Scale Factor: 1.000026
 False Northing: 36,000.000 m (118,110.0000 U.S. Ft)
 False Easting: 240,000.000 m (787,400.0000 U.S. Ft)

ALIGNMENTS

The horizontal alignment for Line "A" was established as a new alignment which is one in the same as the bridge design project. The beginning and ending of said alignment tie into the existing centerline of pavement as field located.

VERTICAL DATUM

Vertical datum for this Survey Book was obtained from a Bartholomew County Surveys Brass Tablet, stamped "BM 10 2013" with a published elevation of 631.55' (NAVD 88). The benchmark is located at the southwest wingwall of the S.R. 58 bridge over the East Fork White Creek; 1,775-feet north of C.R. 225 S.

Temporary benchmarks were set along the aforementioned route for easy retrieval during construction.

FINDINGS OF FACTS (MONUMENTS)

In accordance with title 865, Article 1, Chapter 12 of the Indiana Administrative Code ("Rule 12"), the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established in this survey as a result of uncertainties in reference monuments, in record descriptions and plats, and as introduced by random errors in measurement.

All section corners on the Route Survey Plat were located by information obtained from the Bartholomew County Surveyor's and Recorder's Office:

A Bartholomew County Surveyor's Monument was found at the southeast corner of Section 18, Point #104. Said monument was found undisturbed using the reference ties obtained from said Bartholomew County Surveyor's Office.

A survey nail was found at the east quarter corner of Section 18, Point #105. Said nail was found undisturbed using the reference ties obtained from said Bartholomew County Surveyor's Office.

A Bartholomew County Surveyor's Monument was found at the west quarter corner of Section 18, Point #108. Said monument was found undisturbed using the reference ties obtained from said Bartholomew County Surveyor's Office.

A Bartholomew County Surveyor's Monument was found at the center of Section 18, Point #109. Said monument was found undisturbed using the reference ties obtained from said Bartholomew County Surveyor's Office.

A Bartholomew County Surveyor's Monument was found at the east quarter corner of Section 19, Point #110. Said monument was found undisturbed using the reference ties obtained from said Bartholomew County Surveyor's Office.

A Bartholomew County Surveyor's Monument was found at the center of Section 19, Point #111. Said monument was found undisturbed using the reference ties obtained from said Bartholomew County Surveyor's Office.

The coordinate datasheet sheets for Section 18 and 19, Township 8 North, Range 5 East, as obtained from said Bartholomew County Surveyor's Office, were used to verify section lines as field located and to establish the southwest corner of said Section 18.

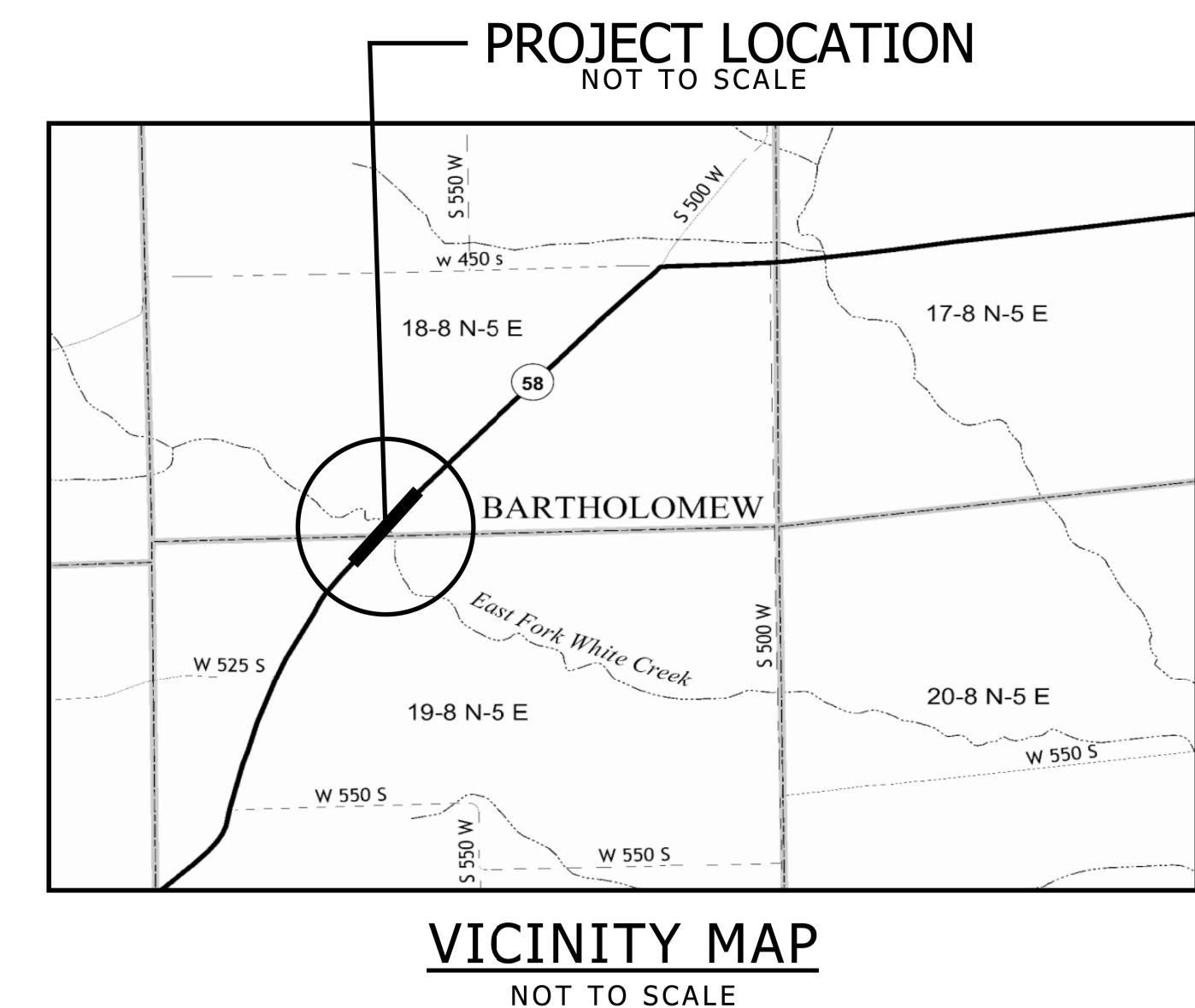
The uncertainties in the location of these monuments is estimated to be 0.50 foot, more or less. This uncertainty arises from the absence of the original survey monuments and the certainty that the monuments used to perpetuate the corners are not in the exact location of the true corners.

A request to the INDOT Records and Documents Library was made and no roadway plans, right-of-way grants, or deeds exist. There was also no evidence of grants or deeds found in the Office of the Recorder of Bartholomew County, Indiana. The apparent existing right-of-way was determined by the back of road-side ditches and other improvements as being 25-feet, with the exception the Meyer parcel which has an estimated 15-foot right-of-way because of an existing building.

CENTERLINE AND CONTROL POINT MONUMENTATION

The centerline points for Line "A" are set survey nails with a stainless steel washer stamped "STRAND ASSOC. FIRM NO. 0110". These monuments have an estimated uncertainty of 0.10 feet, more or less, relative to the above said section corner monuments as located in this survey. The control points for this location control route survey are as noted on the included reference boxes.

Jacob E. Fitzsimmons
 Registered Land Surveyor #LS21200011
 November 30, 2021



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SURVEY STARTED	AUGUST 14, 2018
SURVEY COMPLETED	OCTOBER 23, 2018
ROUTE SURVEY SHEETS	2 of 3



DRAWN: MCP
CHECKED: JEF

FIELD SURVEYOR STATEMENT

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I AFFIRM, UNDER THE PENALTIES FOR PERJURY, THAT I HAVE TAKEN REASONABLE CARE TO REDACT EACH SOCIAL SECURITY NUMBER IN THIS DOCUMENT, UNLESS REQUIRED BY LAW.

PREPARED BY: Jacob E. Fitzsimmons, PLS

REGISTERED LAND SURVEYOR _____ DATE _____

INDIANA
DEPARTMENT OF TRANSPORTATION

SR 58 OVER EAST FORK OF WHITE CREEK
LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE NO.
N/A	058-03-05885 C
VERTICAL SCALE	DESIGNATION NO.
N/A	1600503
SURVEY BOOK NO.	SHEETS
	5 of 24
CONTRACT NO.	PROJECT NO.
B-40407	1600503

CONTROL POINT TABLE

POINT	GRID COORDINATES (US SF)		GEODETIC POSITIONING		ELEVATION (G=GPS / L=LEVELLED)	MONUMENT DESCRIPTION
	NORTHING	EASTING	LATITUDE	LONGITUDE		
10	163614.4461	740041.2924	39° 07' 29.32130" N	86° 01' 00.92624" W	627.96	L #5 REBAR w/ STRAND CAP
11	163775.7543	740159.9581	39° 07' 30.91775" N	86° 00' 59.42427" W	627.04	L #5 REBAR w/ STRAND CAP
12	164031.0274	740399.3211	39° 07' 33.44507" N	86° 00' 56.39294" W	632.03	L #5 REBAR w/ STRAND CAP
104	163691.5607	743631.7035	39° 07' 30.14623" N	86° 00' 15.36998" W	632.17	G BCS MONU. IN CONC. (-0.2')
105	166338.7500	743626.0910	39° 07' 56.30972" N	86° 00' 15.49828" W	629.24	G BCS MONU. IN CONC. (-0.2')
108	166269.4066	738078.4869	39° 07' 55.52526" N	86° 01' 25.89634" W	644.81	G STONE MONU. w/ "X" (+0.2')
109	166296.6759	740965.4257	39° 07' 55.84783" N	86° 00' 49.26148" W	653.54	G BCS MONU. IN CONC. (-0.1')
110	161043.4577	743645.9431	39° 07' 03.97381" N	86° 00' 15.13223" W	645.92	G BCS MONU. IN CONC. (+0.1')
111	161008.4751	740968.2582	39° 07' 03.58175" N	86° 00' 49.10460" W	649.86	G SURVEY NAIL (-0.1')
200	163378.8539	739868.0346	39° 07' 26.98966" N	86° 01' 03.11916" W	-	M.N.S. (P.O.T. 10+00 "A")
201	163969.3971	740365.5351	39° 07' 32.83534" N	86° 00' 56.82022" W	-	M.N.S. (P.C. 17+72.17 "A")
202	163996.4472	740388.3234	39° 07' 33.10310" N	86° 00' 56.53169" W	-	M.N.S. (P.I. 18+07.54 "A")
203	164022.6064	740412.1289	39° 07' 33.36208" N	86° 00' 56.23023" W	-	M.N.S. (P.T. 18+42.90 "A")
204	162777.4642	741780.3835	39° 07' 21.07997" N	86° 00' 38.84050" W	-	N.P.S. (R.P. 1,850.00')
205	164110.0142	740491.6719	39° 07' 34.22741" N	86° 00' 55.22293" W	-	M.N.S. (P.O.T. 19+61.08 "A")

10	NORTHING: 163,614.4461
	EASTING: 740,041.2924

A = MAG NAIL, E FACE, TELE POLE #C6-6, 9.62', Az.=97°
 B = RR SPIKE, E FACE, PWP #62-69-07, 40.74', Az.=307°
 C = MAG NAIL, E FACE, WOODEN GATE POST, 48.04', Az.=39°

RANDOM CONTROL POINT
#5 REBAR w/ "STRAND ASSOC" I.D. CAP
SET AT GRADE

11	NORTHING: 163,775.7543
	EASTING: 740,159.9581

A = TOP N COR, SW WING WALL, 22.33', Az.=152°
 B = TOP CEN, PIER, 42.14', Az.=73°

RANDOM CONTROL POINT
#5 REBAR w/ "STRAND ASSOC." I.D. CAP
SET AT GRADE

12	NORTHING: 164,031.0274
	EASTING: 740,399.3211

A = MAG NAIL, E FACE, PWP, 15.42', Az.=241°
 B = NW COR, CONC PORCH FOUNDATION, 32.52', Az.=41°
 C = SW COR, CONC PORCH FOUNDATION, 38.92', Az.=77°

RANDOM CONTROL POINT
#5 REBAR w/ "STRAND ASSOC" I.D. CAP
SET AT GRADE

104	NORTHING: 163,691.5607
	EASTING: 743,631.7035

A = PK NAIL, N FACE, COR POST, 17.53', Az.=89°
 B = PK NAIL, W FACE, TELE POLE, 26.38', Az.=125°
 C = CL, 2" STEEL COR POST, 19.63', Az.=327°

NE 1/4 COR, SECTION 19, T-8-N, R-5-E
BCS MONUMENT IN CONCRETE FOUND
(+0.1' ABOVE GRADE)

105	NORTHING: 166,338.7500
	EASTING: 743,626.0910

A = PK NAIL, E FACE, PWP #63-41-14, 28.89', Az.=40°
 B = 3/8" REBAR, 33.67', Az.=131°
 C = PK NAIL, W FACE, PWP #63-41-15, 36.94', Az.=145°
 D = PK NAIL, S FACE, PWP #63-41-11, 94.34', Az.=336°

E COR, SECTION 18, T-8-N, R-5-E
SURVEY MARK NAIL FOUND
(-0.1' BELOW GRADE)

108	NORTHING: 166,269.4066
	EASTING: 738,078.4869

A = PK NAIL, S FACE, BRACE POLE #62-48-06, 84.48', Az.=82°
 B = PK NAIL, N FACE, PWP #62-48-05, 76.60', Az.=104°
 C = BCS MONUMENT, 139.39', Az.=182°

W COR, SEC 18, T-8-N, R-5-E
STONE MONUMENT w/ "X" FOUND
(+0.2' ABOVE GRADE)

109	NORTHING: 166,296.6759
	EASTING: 740965.4257

A = PK NAIL, E FACE, FENCE POST, 61.38', Az.=344°
 B = NW COR, HOUSE, 104.04', Az.=64°
 C = "G" NAIL, SE FACE, PWP #63-40-03, 22.13', Az.=227°
 D = PK NAIL, N FACE, PWP #63-40-02, 132.12', Az.=265°

CEN, SEC 18, T-8-N, R-5-E
BCS MONUMENT IN CONCRETE FOUND
(-0.1' BELOW GRADE)

110	NORTHING: 161,043.4577
	EASTING: 743,645.9431

A = PK NAIL, E FACE, FENCE COR POST, 102.85', Az.=192°
 B = PK NAIL, SW FACE, TELE POLE #8980, 21.21', Az.=313°
 C = PK NAIL, W FACE, FENCE POST, 53.85', Az.=42°
 D = PK NAIL, SE FACE, COR POST, 40.34', Az.=60°

W COR, SEC 20, T-8-N, R-5-E
BCS MONUMENT IN CONCRETE FOUND
(+0.1' ABOVE GRADE)

111	NORTHING: 161,008.4751
	EASTING: 740,968.2582

A = CUT "X", E FACE, WATER VALVE, 17.57', Az.=86°
 B = #5 REBAR, 24.98', Az.=90°
 C = PK NAIL, SW FACE, TELE POLE, 28.11', Az.=125°
 D = NAIL w/ DISC, E FACE, 10" BEECH TREE, 55.85', Az.=355°

CEN, SEC 19, T-8-N, R-5-E
SURVEY NAIL FOUND
(-0.1' BELOW GRADE)

200	NORTHING: 163,378.8539
	EASTING: 739,868.0346

A = MAG NAIL, E FACE, TELE POLE #C6-6, 284.32', Az.=41°
 B = MAG NAIL, E FACE, PWP #62-69-08, 79.93', Az.=254°

P.O.T. 10+00 "A"
MAG NAIL w/ "STRAND ASSOC." WASHER
SET AT GRADE

201	NORTHING: 163,969.3971
	EASTING: 740,365.5351

A = MAG NAIL, E FACE, PWP, 59.73', Az.=28°
 B = NW COR, CONC PORCH FOUNDATION, 76.90', Az.=58°
 C = SW COR, CONC PORCH FOUNDATION, 46.91', Az.=66°

P.C. 17+72.17 "A"
MAG NAIL w/ "STRAND ASSOC." WASHER
SET AT GRADE

202	NORTHING: 163,996.4472
	EASTING: 740,388.3234

A = MAG NAIL, E FACE, PWP, 29.58', Az.=6°
 B = NW COR, CONC PORCH FOUNDATION, 43.32', Az.=78°
 C = SW COR, CONC PORCH FOUNDATION, 18.21', Az.=103°

P.I. 18+07.54 "A"
MAG NAIL w/ "STRAND ASSOC." WASHER
SET AT GRADE

203	NORTHING: 164,022.6064
	EASTING: 740,412.1289

A = MAG NAIL, E FACE, PWP, 27.49', Az.=275°
 B = NW COR, CONC PORCH FOUNDATION, 17.22', Az.=36°
 C = SW COR, CONC PORCH FOUNDATION, 30.41', Az.=197°

P.T. 18+42.90 "A"
MAG NAIL w/ "STRAND ASSOC." WASHER
SET AT GRADE

205	NORTHING: 164,110.0142
	EASTING: 740491.6719

A = MAG NAIL, E FACE, PWP #62-69-02, 24.67', Az.=356°
 B = MAG NAIL, W FACE, PWP #62-59-03, 84.69', Az.=51°
 C = MAG NAIL, E FACE, PWP #62-69-02, 136.12', Az.=251°

P.O.T. 19+61.08 "A"
MAG NAIL w/ "STRAND ASSOC." WASHER
SET AT GRADE

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SURVEY STARTED	AUGUST 14, 2018
SURVEY COMPLETED	OCTOBER 23, 2018
ROUTE SURVEY SHEETS	3 of 3



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DRAWN: MCP
CHECKED: JEF

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PREPARED BY: Jacob E. Fitzsimmons, PLS

REGISTERED LAND SURVEYOR _____ DATE _____

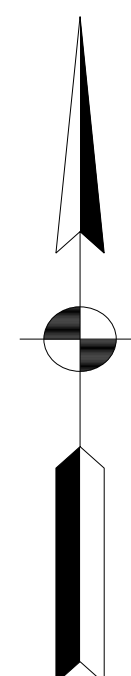
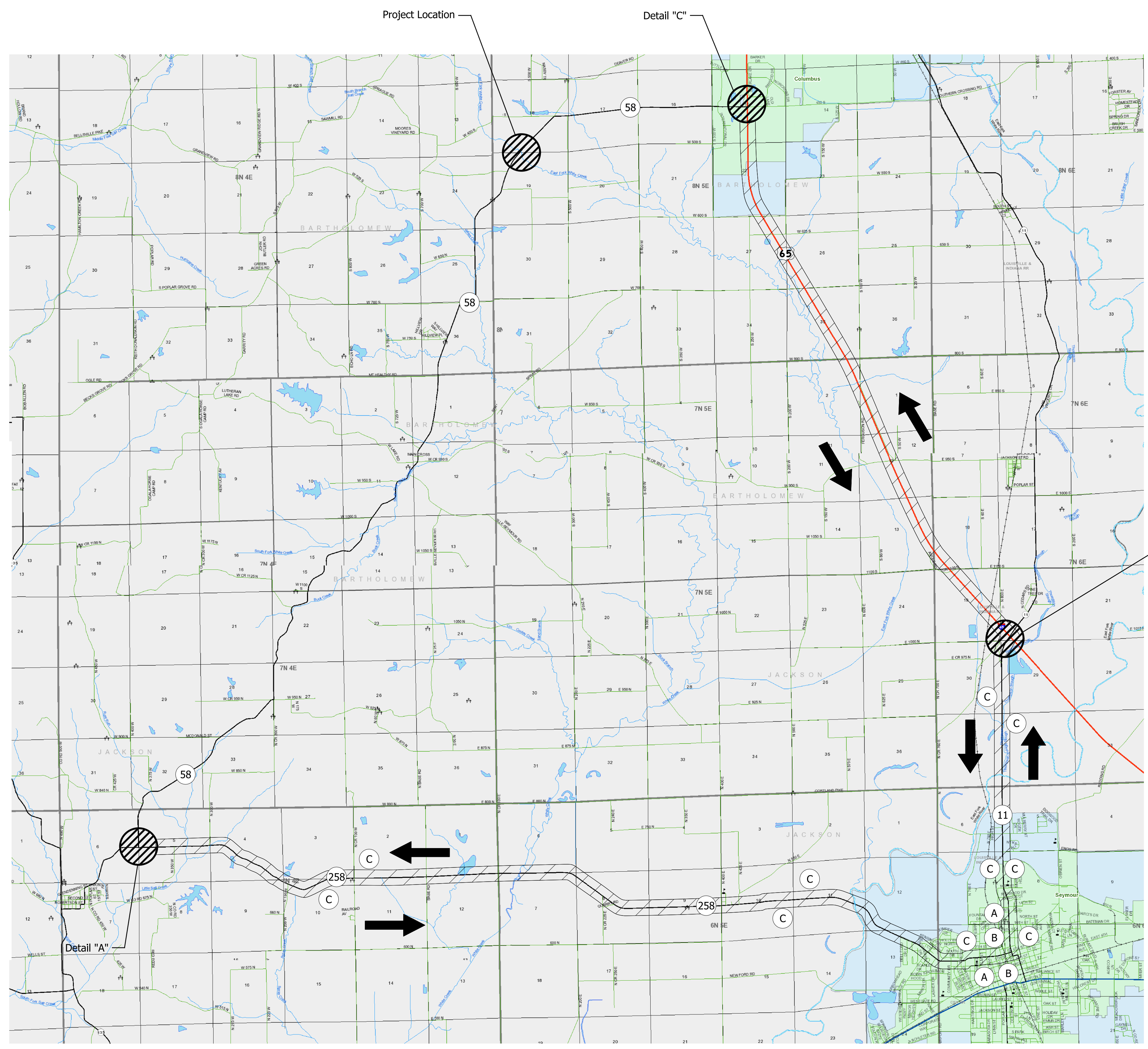
INDIANA
DEPARTMENT OF TRANSPORTATION

SR 58 OVER EAST FORK OF WHITE CREEK
LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE NO.
N/A	058-03-05885 C
VERTICAL SCALE	DESIGNATION NO.
N/A	1600503
SURVEY BOOK NO.	SHEETS
	6 of 24
CONTRACT NO.	PROJECT NO.
B-40407	1600503

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Legend

- Posted Detour Route
- Traffic Flow Arrow
- Construction Sign
- Barricade III-A
- Barricade III-B

Detour Route Marker Assemblies

- A** DRMA (Advance Turn) 8 Ea.
- B** DRMA (Directional) 8 Ea.
- C** DRMA (Confirming) 18 Ea.
- D** DRMA (End) 2 Ea.

Type A Construction Signs

- E** XW20-2 (Detour Ahead) 1 Ea.
- F** XW20-3 (Road Closed) 12 Ea.
- G** XG20-5 (Closure Date) 2 Ea.

Type A Construction Signs

- I** XG20-2 (End Construction) 2 Ea.
- J** XW20-1 (Road Construction Ahead) 4 Ea.

Barricades

- K** Barricade, Type III-A (No. of 12' Units) 72 Lt. (6)
- L** Barricade, Type III-B (No. of 12' Units) 72 Lt. (6)

Road Closure Sign Assemblies

- N** RCSA (R11-2) 2 Ea.
- O** RCSA (R11-3) 2 Ea.
- P** RCSA (R11-4) 2 Ea.

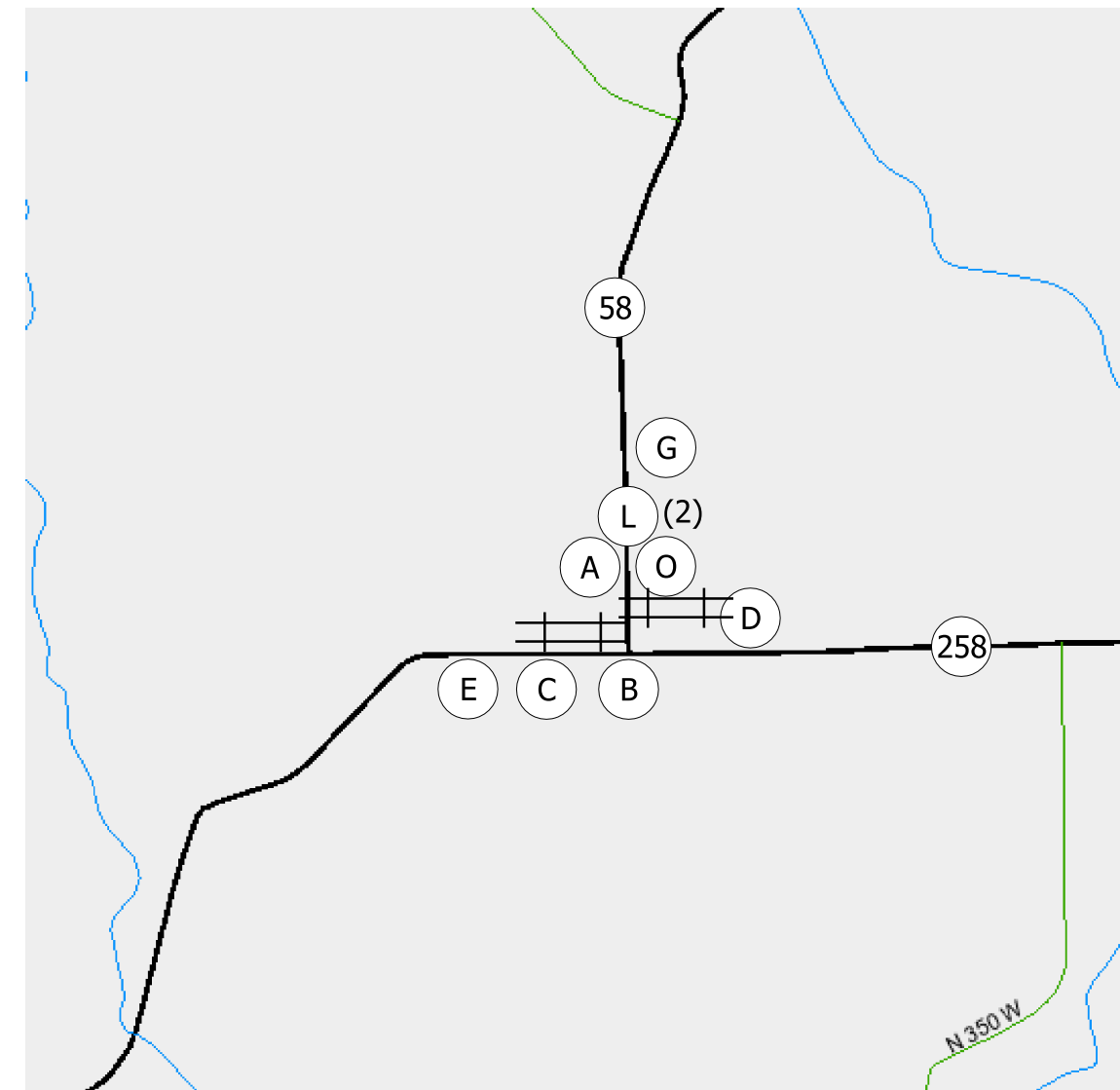
Type C Construction Signs

- Q** XG20-7 Worksite Penalty Sign 4 Ea.

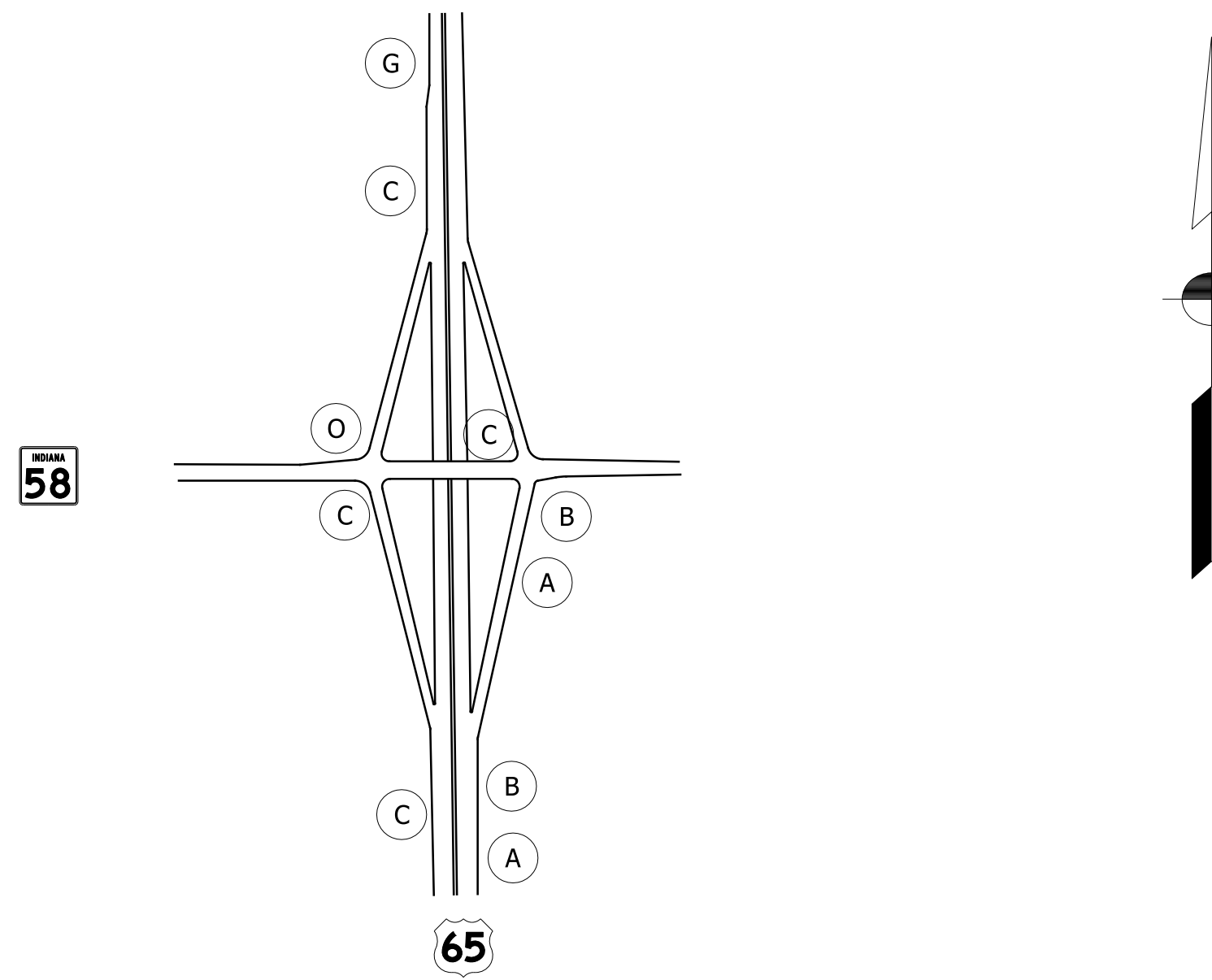
NOTES

1. Typical sign spacing is 500 feet.
2. For detour route marker assemblies **A**, **B**, **C**, and **D**, see Standard Drawing E 801-TCDT-04.
3. Indiana 258 ends at Indiana 11 in Seymour.

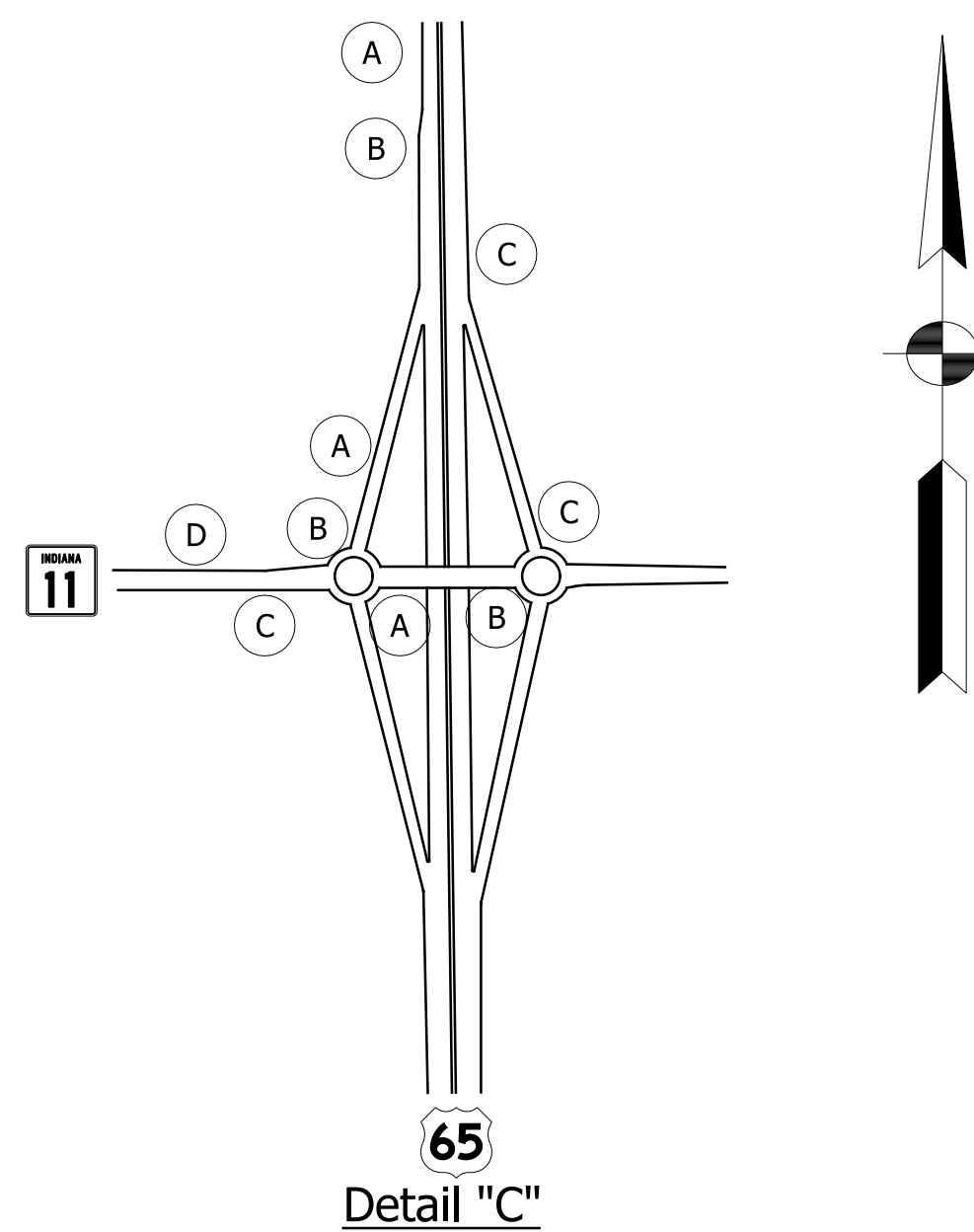
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE NA BRIDGE FILE NO. 058-03-10186 VERTICAL SCALE NA DESIGNATION NO. 1600503
DESIGNED: DHS CHECKED: DEB	DRAWN: DHS CHECKED: DEB	MAINTENANCE OF TRAFFIC S.R. 58 OVER EAST FORK WHITE CREEK
		SURVEY BOOK NO. _____ SHEETS 7 of 24 CONTRACT NO. B-40407 PROJECT NO. 1600503



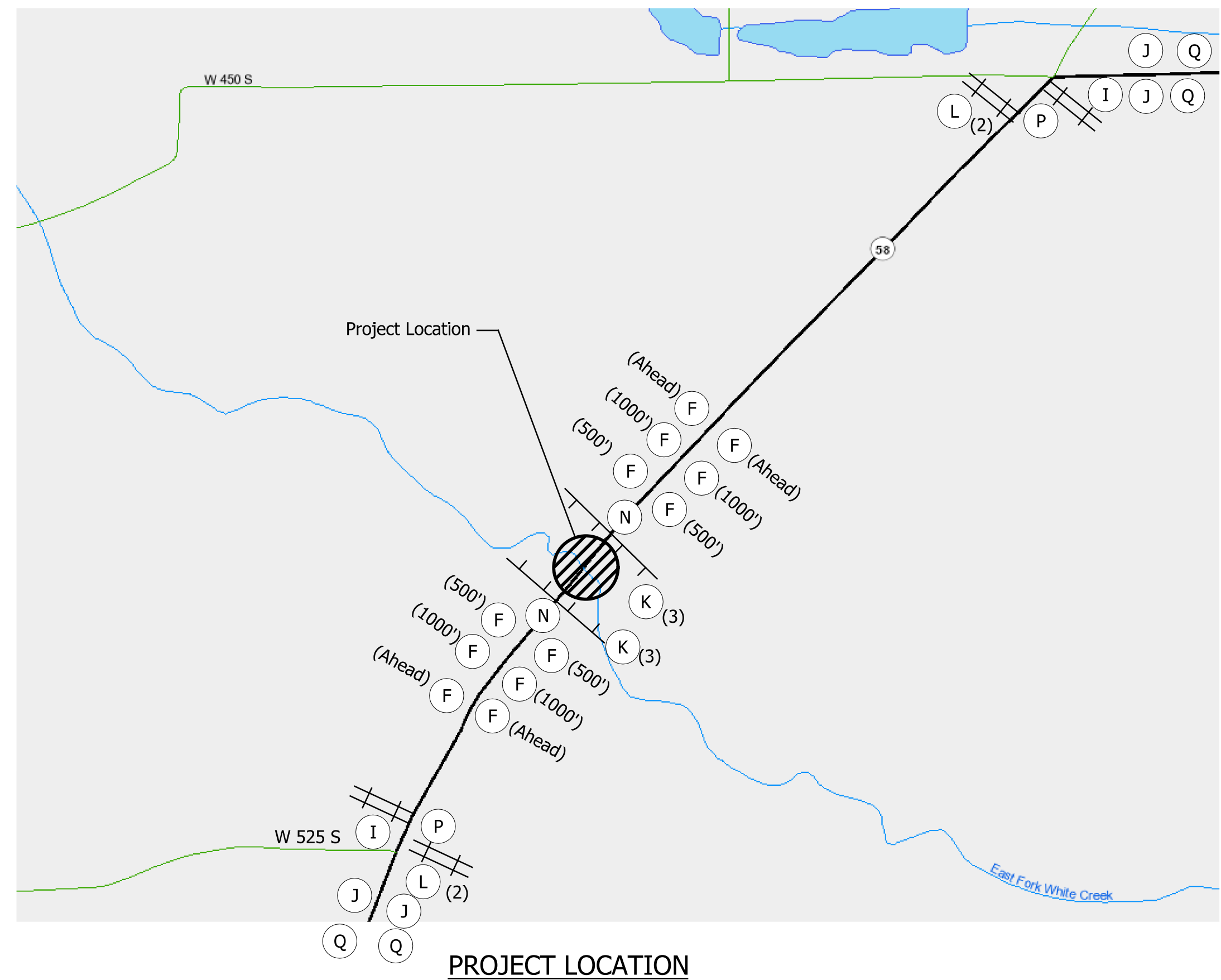
Detail "A"



Detail "B"



Detail "C"



PROJECT LOCATION

Legend

- Posted Detour Route
- Traffic Flow Arrow
- Construction Sign
- Barricade III-A
- Barricade III-B

Detour Route Marker Assemblies

- (A) DRMA (Advance Turn)
- (B) DRMA (Directional)
- (C) DRMA (Confirming)
- (D) DRMA (End)

Type A Construction Signs

- (E) XW20-2 (Detour Ahead)
- (F) XW20-3 (Road Closed _____)
- (G) XG20-5 (Closure Date)

Type A Construction Signs

- (I) XG20-2 (End Construction)
- (J) XW20-1 (Road Construction Ahead)

Barricades

- (K) Barricade, Type III-A (No. of 12' Units)
- (L) Barricade, Type III-B (No. of 12' Units)

Road Closure Sign Assemblies

- (N) RCSA (R11-2)
- (O) RCSA (R11-3)
- (P) RCSA (R11-4)

Type C Construction Signs

- (Q) XG20-7 Worksite Penalty Sign

NOTES

1. Typical sign spacing is 500 feet.
2. For detour route marker assemblies (A), (B), (C), and (D), see Standard Drawing E 801-TCDDT-04.

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: DHS	DRAWN: DHS		
CHECKED: DEB	CHECKED: DEB		

INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC

S.R. 58 OVER EAST FORK WHITE CREEK

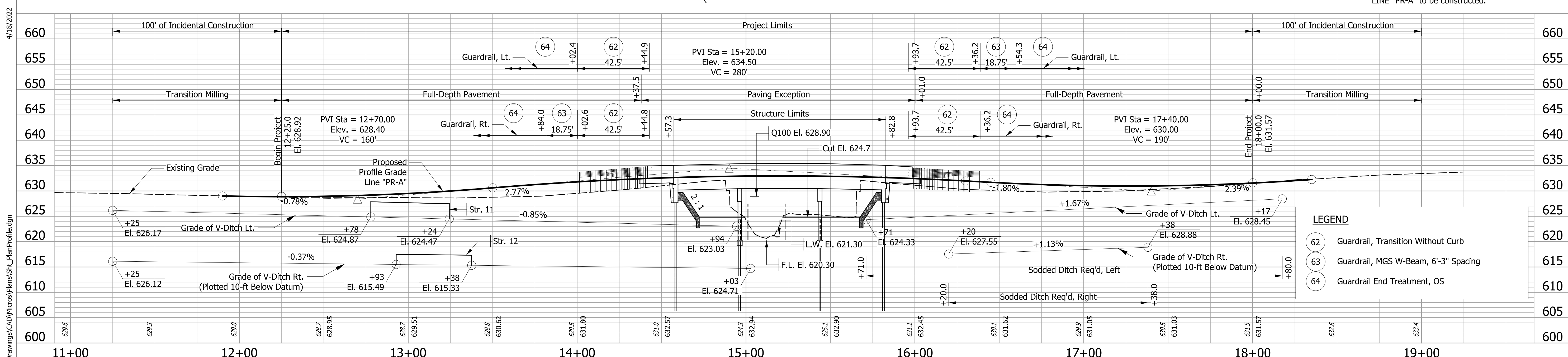
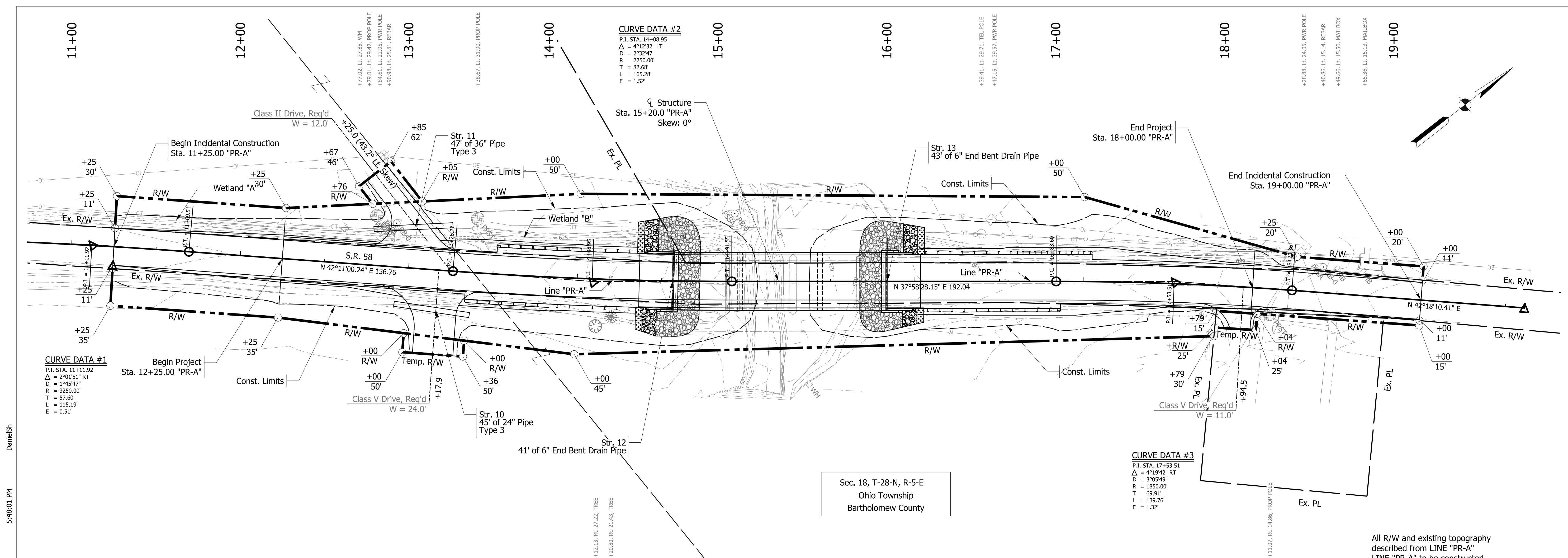
HORIZONTAL SCALE NA	BRIDGE FILE NO. 058-03-10186
VERTICAL SCALE NA	DESIGNATION NO. 1600503
SURVEY BOOK NO.	SHEETS
	8 of 24
CONTRACT NO. B-40407	PROJECT NO. 1600503

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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE NO.	
DESIGNED: DHS		DRAWN: DHS					1" = 40'		058-03-10186	
CHECKED: DEB		CHECKED: DEB			PLAN AND PROFILE		VERTICAL SCALE		DESIGNATION NO.	
					S.R. 58 OVER EAST FORK WHITE CREEK		1" = 10'		1600503	
							SURVEY BOOK NO.		SHEETS	
							9		of 24	
							CONTRACT NO.		PROJECT NO.	
							B-40407		1600503	

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11+00

12+00

13+00

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15+00

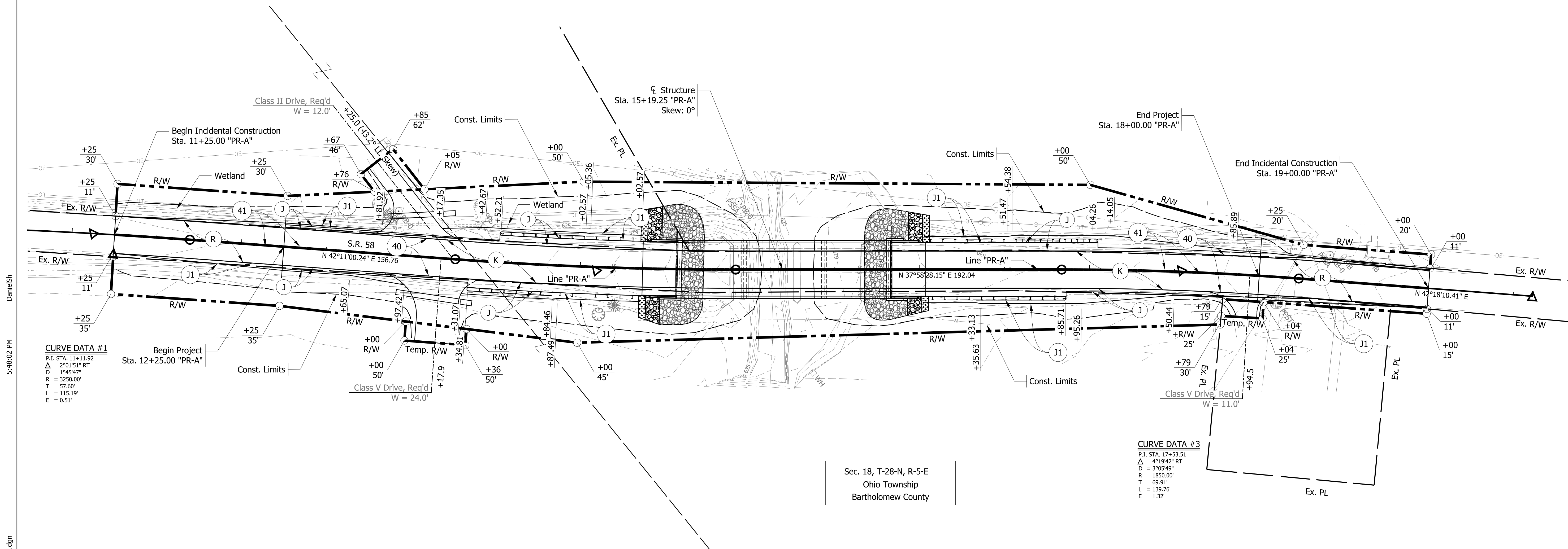
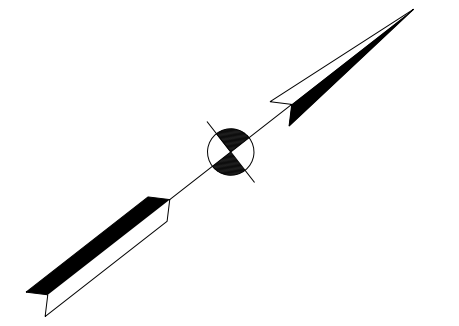
16+00

17+00

18+00

19+00

CURVE DATA #2
 P.I. STA. 14+08.95
 $\Delta = 4^{\circ}12'32''$ LT
 $D = 2^{\circ}32'47''$
 $R = 2250.00'$
 $T = 82.68'$
 $L = 165.28'$
 $E = 1.52'$



CURVE DATA #1
 P.I. STA. 11+11.92
 $\Delta = 2^{\circ}01'51''$ RT
 $D = 1^{\circ}45'47''$
 $R = 3250.00'$
 $T = 57.60'$
 $L = 115.19'$
 $E = 0.51'$

CURVE DATA #3
 P.I. STA. 17+53.51
 $\Delta = 4^{\circ}19'42''$ RT
 $D = 3^{\circ}05'49''$
 $R = 1850.00'$
 $T = 69.91'$
 $L = 139.76'$
 $E = 1.32'$

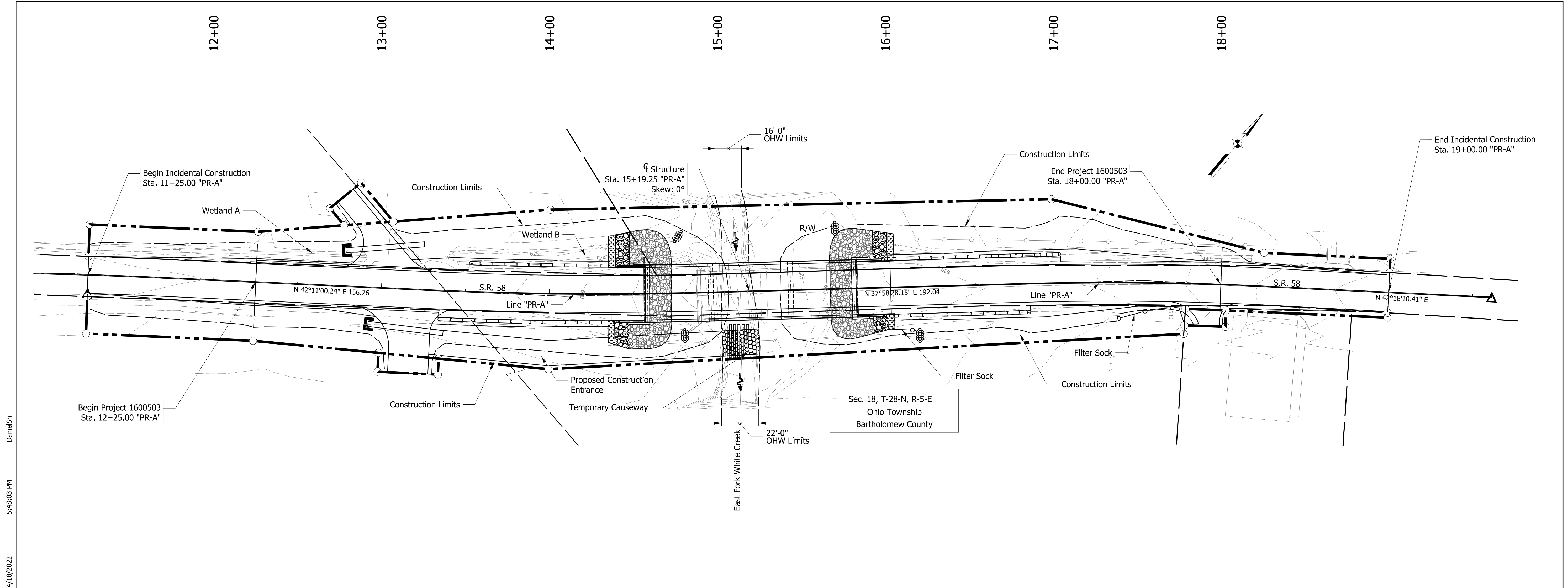
- (A) Reinforced Concrete Bridge Approach, 12"
- (J) Full Depth HMA for Shoulder:
165 #/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm on
275 #/syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on
660 #/syd QC/QA-HMA, 2, 64, Base, 19.0 mm on
Subgrade Treatment, Type ID
- (K) Full Depth HMA Pavement:
165 #/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm on
275 #/syd QC/QA-HMA, 2, 64, Intermediate, 19.0 mm on
660 #/syd QC/QA-HMA, 2, 64, Base, 19.0 mm on
Subgrade Treatment, Type ID
- (R) Transition Milling:
165 #/syd QC/QA-HMA, 3, 64, Surface, 9.5 mm on
Milling, Asphalt, 1.5 in.
- (J1) Compacted Aggregate, No. 53
- (40) Line, Paint, Solid, White, 6 in.
- (41) Line, Paint, Solid, Yellow, 6 in.

All R/W and existing topography described from Line "PR-A", unless noted. Line "PR-A" to be constructed.

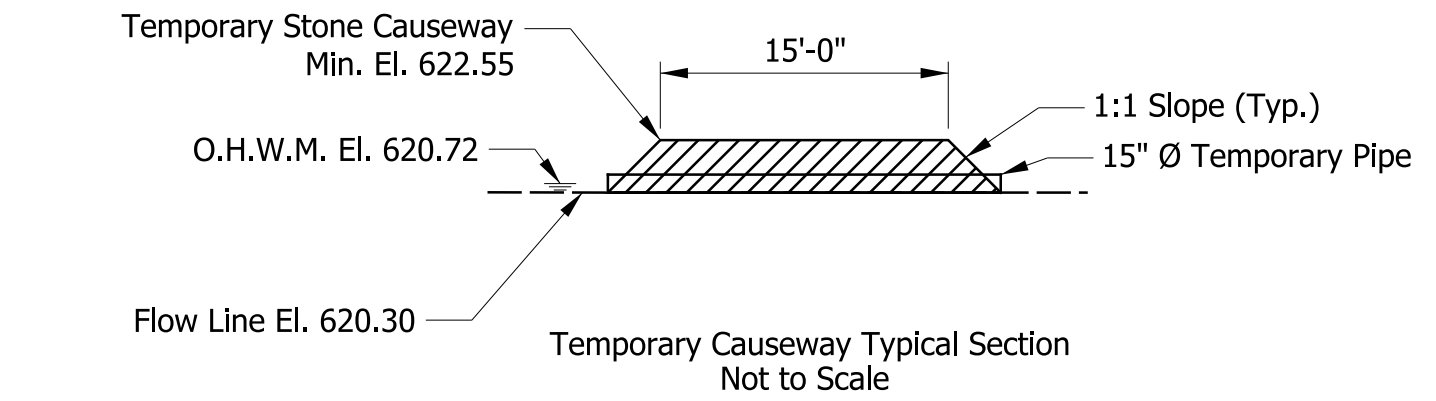
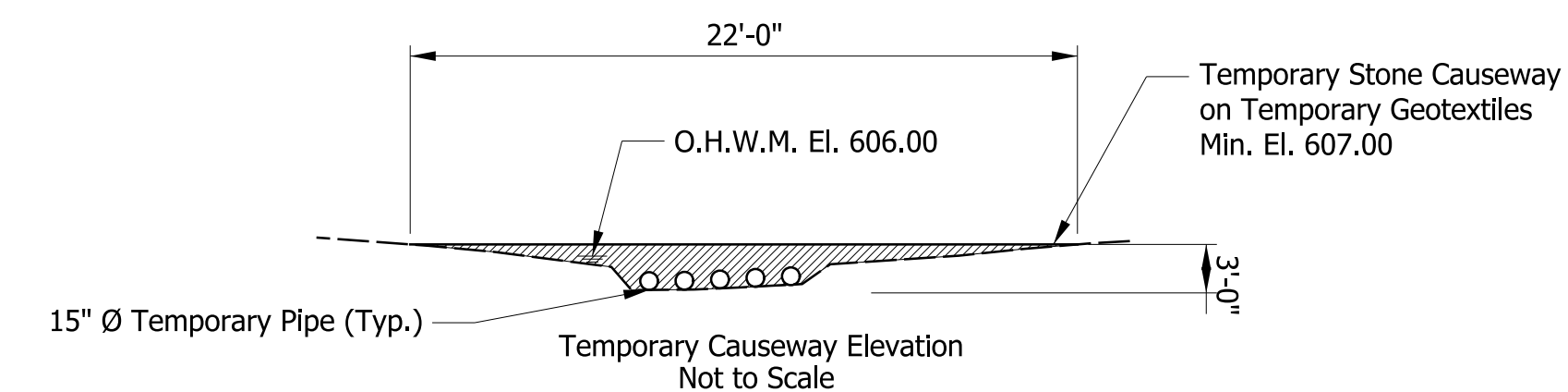
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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 40'	BRIDGE FILE NO. 058-03-10186
	CONSTRUCTION DETAILS S.R. 58 OVER EAST FORK WHITE CREEK		VERTICAL SCALE 1" = 10'	DESIGNATION NO. 1600503
DESIGNED: DHS	DRAWN: DHS	SURVEY BOOK NO.		SHEETS 10 of 24
CHECKED: DEB	CHECKED: DEB	CONTRACT NO. B-40407		PROJECT NO. 1600503



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- TEMPORARY CAUSEWAY NOTES**
1. Temporary Causeway details are for permitting purposes. Contractor to verify dimensions and quantities. Quantities included with the lump sum "Temporary Causeway".
 2. Required Causeway No. of Pipes and Size will be determined by Contractor.

LEGEND

- Temporary Filter Sock
- Water Flow Direction
- ▨ Temporary Causeway
- ▩ Temporary Check Dam, Traversable
- Temporary Pipe End Protection

TEMPORARY CHECK DAM, TRAVERSABLE			
STATION	LT/RT	LENGTH	
14+94	LT	10.0'	
15+03	RT	10.0'	
15+71	LT	10.0'	
16+20	RT	10.0'	

TEMPORARY FILTER SOCK			
STATION	STATION	LT/RT	LENGTH
16+00	16+20	LT	20.0'
17+38	17+80	RT	48.0'

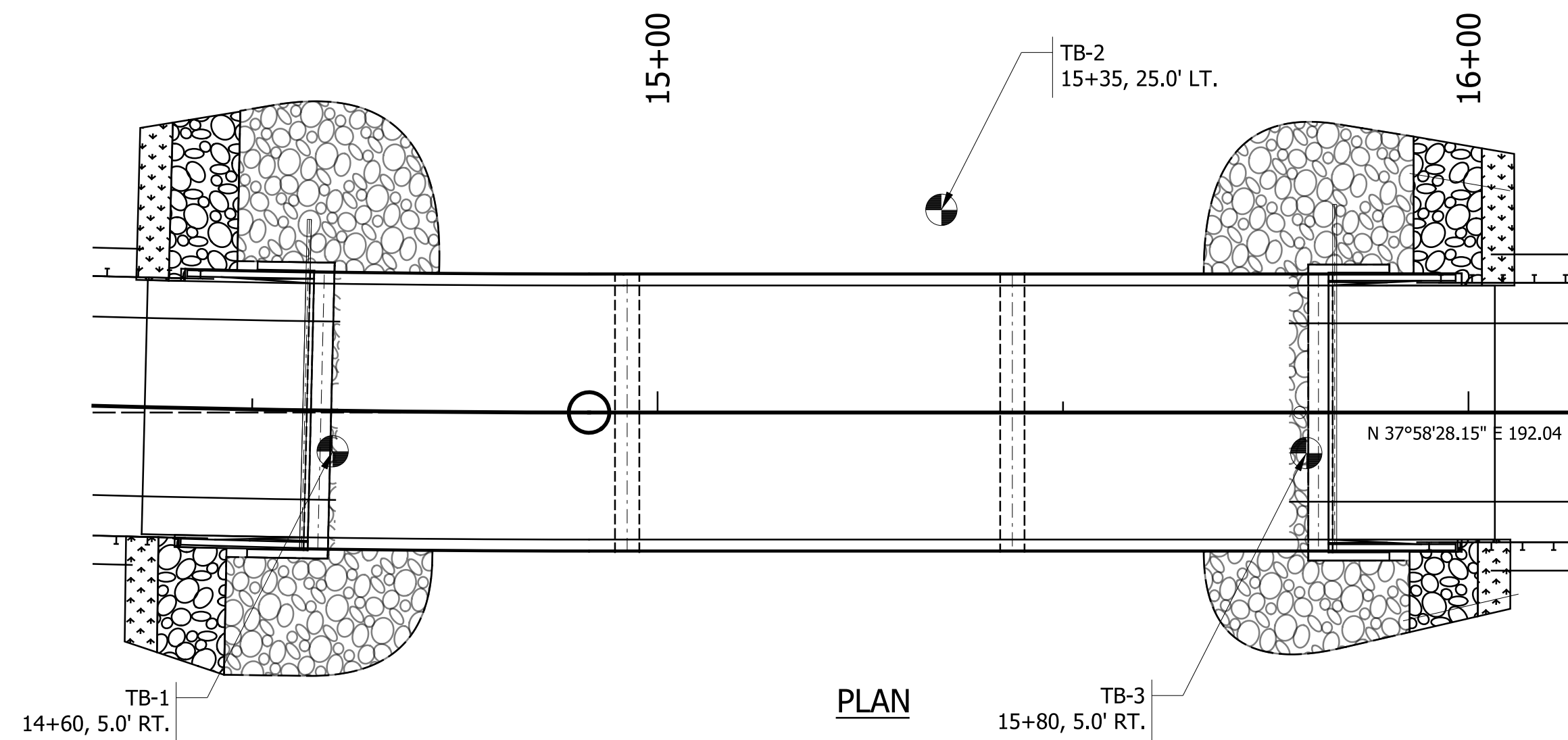
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE NO.
			EROSION CONTROL DETAIL S.R. 58 OVER EAST FORK WHITE CREEK		1"=30'	058-03-10186
DESIGNED: DHS	DRAWN: DHS	VERTICAL SCALE			DESIGNATION NO.	
CHECKED: DEB	CHECKED: DEB	NA	1600503	SURVEY BOOK NO.	SHEETS	
				11	of 24	
				CONTRACT NO.	PROJECT NO.	
				B-40407	1600503	

LOG OF TEST BORING		BORING NO.: TB-1								
CLIENT: Strand Associates, Inc.		SHEET: 1 OF 2								
DESIGN NO.: 1600503		LATITUDE: 39.12511								
STRUCTURE #: 058-03-10186		LONGITUDE: -86.01646								
PROJECT TYPE: Bridge Replacement		DATE STARTED: 06-10-20								
LOCATION: SR 58 over East Fork White Creek		DATE COMPLETED: 06-10-20								
COUNTY: Bartholomew		PROJECT NO.: C-1195497								
BORING METHOD: Hollow Stem Auger		HAMMER: Auto								
STATION: 14+60		RIG TYPE: CME 750 ATV								
OFFSET: 5.0 ft Right		CASING DIA: 1.1 M								
LINE: 22-A		TEMPERATURE: 86 °F								
DEPTH: 54.3 ft		WEATHER: Clear								
GROUNDWATER: Encountered at 17.0 ft		At completion 5.0 ft								
Caved in at 19.0 ft										
ELEVATION	DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per ft	RECOVERY %	MOISTURE CONTENT	DRY DENSITY, pcf	UNCONF. COMP. - SF	ATTERBERG LIMITS	REMARKS
630.0	1.0	Asphaltic Concrete	SS 1	8-10-12	94	13.8	1.75			
625.0	5.0	Sandy Loam, very stiff, moist, brown, with gravel near 2.5 ft. (possible fill)	SS 2	4-2-2	83	17.6	1.0			
620.0	10.0	Silty Clay Loam, very soft to stiff, moist, brown to gray below 13 ft, with sandy loam seams, A-6(11), Lab No. 28492	SS 3	2-2-1	94	25.8	<0.25			
615.0	15.0	Silty Clay Loam, very soft to stiff, moist, brown to gray below 13 ft, with sandy loam seams, A-6(11), Lab No. 28492	SS 4	2-2-2	89	22.1	0.5			11.0, pH = 6.9, G _s = 2.72
610.0	20.0	Silty Clay Loam, very soft to stiff, moist, brown to gray below 13 ft, with sandy loam seams, A-6(11), Lab No. 28492	SS 5	1-1-1	89	30.3	1.5	32	21	11
605.0	25.0	Silty Clay Loam, very soft to stiff, moist, brown to gray below 13 ft, with sandy loam seams, A-6(11), Lab No. 28492	SS 6	2-3-4	94	22.1	3.0			
600.0	30.0	Silty Clay Loam, very soft to stiff, moist, brown to gray below 13 ft, with sandy loam seams, A-6(11), Lab No. 28492	SS 7	7-7-9	83	21.9	0.5			18.5, pH = 7.4, G _s = 2.71
595.0	35.0	Sand, loose to medium dense, wet, brown, with sandy loam seam near 25 ft. (A-1-200), Lab No. 28493	SS 8	5-6-4	94					
590.0	40.0	Sand, loose to medium dense, wet, brown, with sandy loam seam near 25 ft. (A-1-200), Lab No. 28493	SS 9	5-6-7	83		1.5			
585.0	45.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 10	5-6-6	78	14.5	3.0			
580.0	50.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 11	5-6-6	78	14.5	3.0			
575.0	55.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 12	5-6-6	78	14.5	3.0			
570.0	60.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 13	5-6-6	78	14.5	3.0			
565.0	65.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 14	5-6-6	78	14.5	3.0			
560.0	70.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 15	5-6-6	78	14.5	3.0			
555.0	75.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 16	5-6-6	78	14.5	3.0			
550.0	80.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 17	5-6-6	78	14.5	3.0			
545.0	85.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 18	5-6-6	78	14.5	3.0			
540.0	90.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 19	5-6-6	78	14.5	3.0			
535.0	95.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 20	5-6-6	78	14.5	3.0			
530.0	100.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 21	5-6-6	78	14.5	3.0			
525.0	105.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 22	5-6-6	78	14.5	3.0			
520.0	110.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 23	5-6-6	78	14.5	3.0			
515.0	115.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 24	5-6-6	78	14.5	3.0			
510.0	120.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 25	5-6-6	78	14.5	3.0			
505.0	125.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 26	5-6-6	78	14.5	3.0			
500.0	130.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 27	5-6-6	78	14.5	3.0			
495.0	135.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 28	5-6-6	78	14.5	3.0			
490.0	140.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 29	5-6-6	78	14.5	3.0			
485.0	145.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 30	5-6-6	78	14.5	3.0			
480.0	150.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 31	5-6-6	78	14.5	3.0			
475.0	155.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 32	5-6-6	78	14.5	3.0			
470.0	160.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 33	5-6-6	78	14.5	3.0			
465.0	165.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 34	5-6-6	78	14.5	3.0			
460.0	170.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 35	5-6-6	78	14.5	3.0			
455.0	175.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 36	5-6-6	78	14.5	3.0			
450.0	180.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 37	5-6-6	78	14.5	3.0			
445.0	185.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 38	5-6-6	78	14.5	3.0			
440.0	190.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 39	5-6-6	78	14.5	3.0			
435.0	195.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 40	5-6-6	78	14.5	3.0			
430.0	200.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 41	5-6-6	78	14.5	3.0			
425.0	205.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 42	5-6-6	78	14.5	3.0			
420.0	210.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 43	5-6-6	78	14.5	3.0			
415.0	215.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 44	5-6-6	78	14.5	3.0			
410.0	220.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 45	5-6-6	78	14.5	3.0			
405.0	225.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 46	5-6-6	78	14.5	3.0			
400.0	230.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 47	5-6-6	78	14.5	3.0			
395.0	235.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 48	5-6-6	78	14.5	3.0			
390.0	240.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 49	5-6-6	78	14.5	3.0			
385.0	245.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 50	5-6-6	78	14.5	3.0			
380.0	250.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 51	5-6-6	78	14.5	3.0			
375.0	255.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 52	5-6-6	78	14.5	3.0			
370.0	260.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 53	5-6-6	78	14.5	3.0			
365.0	265.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 54	5-6-6	78	14.5	3.0			
360.0	270.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 55	5-6-6	78	14.5	3.0			
355.0	275.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 56	5-6-6	78	14.5	3.0			
350.0	280.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 57	5-6-6	78	14.5	3.0			
345.0	285.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 58	5-6-6	78	14.5	3.0			
340.0	290.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 59	5-6-6	78	14.5	3.0			
335.0	295.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 60	5-6-6	78	14.5	3.0			
330.0	300.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 61	5-6-6	78	14.5	3.0			
325.0	305.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 62	5-6-6	78	14.5	3.0			
320.0	310.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 63	5-6-6	78	14.5	3.0			
315.0	315.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 64	5-6-6	78	14.5	3.0			
310.0	320.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 65	5-6-6	78	14.5	3.0			
305.0	325.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 66	5-6-6	78	14.5	3.0			
300.0	330.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 67	5-6-6	78	14.5	3.0			
295.0	335.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 68	5-6-6	78	14.5	3.0			
290.0	340.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 69	5-6-6	78	14.5	3.0			
285.0	345.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 70	5-6-6	78	14.5	3.0			
280.0	350.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 71	5-6-6	78	14.5	3.0			
275.0	355.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 72	5-6-6	78	14.5	3.0			
270.0	360.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 73	5-6-6	78	14.5	3.0			
265.0	365.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 74	5-6-6	78	14.5	3.0			
260.0	370.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 75	5-6-6	78	14.5	3.0			
255.0	375.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 76	5-6-6	78	14.5	3.0			
250.0	380.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 77	5-6-6	78	14.5	3.0			
245.0	385.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 78	5-6-6	78	14.5	3.0			
240.0	390.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 79	5-6-6	78	14.5	3.0			
235.0	395.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 80	5-6-6	78	14.5	3.0			
230.0	400.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 81	5-6-6	78	14.5	3.0			
225.0	405.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 82	5-6-6	78	14.5	3.0			
220.0	410.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 83	5-6-6	78	14.5	3.0			
215.0	415.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 84	5-6-6	78	14.5	3.0			
210.0	420.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 85	5-6-6	78	14.5	3.0			
205.0	425.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 86	5-6-6	78	14.5	3.0			
200.0	430.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 87	5-6-6	78	14.5	3.0			
195.0	435.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 88	5-6-6	78	14.5	3.0			
190.0	440.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 89	5-6-6	78	14.5	3.0			
185.0	445.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 90	5-6-6	78	14.5	3.0			
180.0	450.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 91	5-6-6	78	14.5	3.0			
175.0	455.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 92	5-6-6	78	14.5	3.0			
170.0	460.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 93	5-6-6	78	14.5	3.0			
165.0	465.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 94	5-6-6	78	14.5	3.0			
160.0	470.0	Silty Loam, stiff, moist, brown, with sand seam near 28.5 ft. (visual)	SS 95	5-6-6	78	14.5	3.0			</

LOG OF TEST BORING		BORING NO.: TB-2										
EARTH EXPLORATION CLIENT: Strand Associates, Inc.		SHEET 1 OF 3										
DES NO.: 1600503 STRUCTURE #: 058-03-10186		LATITUDE: 39.12530										
PROJECT TYPE: Bridge Replacement		LONGITUDE: -86.01638										
LOCATION: SR 58 over East Fork White Creek		DATUM:										
COUNTY: Bartholomew PROJECT NO.: C1195497		DATE STARTED: 06-13-20										
BORING METHOD: Hollow Stem Auger		DATE COMPLETED: 06-13-20										
STATION: 15+35 RIG TYPE: CME 750 ATV		HAMMER: Auto										
OFFSET: 25.0 ft Left CASING DIA.:		DRILLER/INSP: T.M.										
LINE: TSCA TEMPERATURE: 70 °F		WEATHER: Cloudy										
DEPTH: 70.0 ft CORE SIZE: NO		GROUNDWATER: Encountered at 14.0 ft										
ELEVATION	DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per ft	RECOVERY %	MOISTURE CONTENT %	DRY DENSITY pcf	UNCONF. COMP. -sf	LL	PL	PI	REMARKS
825.0	0.0	Topsoil	SS 1	0.3								
820.0	5.0	Silty Clay Loam, medium stiff, moist, brown, with sand seams near 2.5 ft	SS 2	2-2.4	67	18.1	1.75					
815.0	10.0		SS 3	1-1.2	94	37.0	1.0					
810.0	15.0		SS 4	6-7.7	83	19.5	3.5					
805.0	20.0		SS 5	6-7.8	89	19.1	3.5					
800.0	25.0	Clay, very soft to hard, moist, gray, with organic matter near 5 ft, A-6(12), Lab No. 28484	SS 6	5-5.7	83	18.1	3.75					
795.0	30.0		SS 7	5-7.9	100	22.5	2.25					16.0, pH = 8.4, G _s = 2.71
790.0	35.0		SS 8	5-7.8	83	27.0	3.5	37	21	16		
785.0	40.0		SS 9	6-11-22	94	19.7	3.5					
780.0	45.0	Weathered Shale, soft, gray	SS 10	30-32-48	94							
775.0	50.0		SS 11	30-50-4	50							

LOG OF TEST BORING		BORING NO.: TB-2										
EARTH EXPLORATION CLIENT: Strand Associates, Inc.		SHEET 2 OF 3										
DES NO.: 1600503 STRUCTURE #: 058-03-10186		LATITUDE: 39.12530										
PROJECT TYPE: Bridge Replacement		LONGITUDE: -86.01638										
LOCATION: SR 58 over East Fork White Creek		DATUM:										
COUNTY: Bartholomew PROJECT NO.: C1195497		DATE STARTED: 06-13-20										
BORING METHOD: Hollow Stem Auger		DATE COMPLETED: 06-13-20										
STATION: 15+35 RIG TYPE: CME 750 ATV		HAMMER: Auto										
OFFSET: 25.0 ft Left CASING DIA.:		DRILLER/INSP: T.M.										
LINE: TSCA TEMPERATURE: 70 °F		WEATHER: Cloudy										
DEPTH: 70.0 ft CORE SIZE: NO		GROUNDWATER: Encountered at 14.0 ft										
ELEVATION	DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per ft	RECOVERY %	MOISTURE CONTENT %	DRY DENSITY pcf	UNCONF. COMP. -sf	LL	PL	PI	REMARKS
800.0	35.0		SS 12	31-50.5	67							
795.0	40.0		SS 13	42-50.5	67							
790.0	45.0	Weathered Shale, soft, gray	SS 14	37-50.4	34							
785.0	50.0		SS 15	47-50.3	44							
780.0	55.0		SS 16	50.4	22							
775.0	60.0	Shale, very soft, gray, low bedding	RC 1	50.5	28							
770.0	65.0	Siltstone, hard, gray, red below 63.7 ft, low bedding planes	RC 2		100							271

LOG OF TEST BORING		BORING NO.: TB-2										
EARTH EXPLORATION CLIENT: Strand Associates, Inc.		SHEET 3 OF 3										
DES NO.: 1600503 STRUCTURE #: 058-03-10186		LATITUDE: 39.12530										
PROJECT TYPE: Bridge Replacement		LONGITUDE: -86.01638										
LOCATION: SR 58 over East Fork White Creek		DATUM:										
COUNTY: Bartholomew PROJECT NO.: C1195497		DATE STARTED: 06-13-20										
BORING METHOD: Hollow Stem Auger		DATE COMPLETED: 06-13-20										
STATION: 15+35 RIG TYPE: CME 750 ATV		HAMMER: Auto										
OFFSET: 25.0 ft Left CASING DIA.:		DRILLER/INSP: T.M.										
LINE: TSCA TEMPERATURE: 70 °F		WEATHER: Cloudy										
DEPTH: 70.0 ft CORE SIZE: NO		GROUNDWATER: Encountered at 14.0 ft										
ELEVATION	DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per ft	RECOVERY %	MOISTURE CONTENT %	DRY DENSITY pcf	UNCONF. COMP. -sf	LL	PL	PI	REMARKS
800.0	35.0		RC 3		100							
795.0	40.0	Siltstone, hard, gray, red below 63.7 ft, low bedding planes	RC 4		100							
790.0	45.0	Shale, very soft, gray, low bedding planes	RC 5		100							
785.0	50.0	Siltstone, hard, gray, red-brown near 70 ft, low bedding planes	RC 6		100							
780.0	55.0		RC 7		100							
775.0	60.0		RC 8		100							
770.0	65.0		RC 9		100							
765.0	70.0	Bottom of Boring at 70.0 ft										



NOTES

- N indicates the number of blows required to drive a 2 in. O.D. Split-Barrel Sampler 12 in. by means of a 140-lb weight falling 30 in., after being seated 6 in. into the material and then driven 12 in.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE NO. 058-03-10186
	SOIL BORINGS - TB-2 S.R. 58 OVER EAST FORK WHITE CREEK		VERTICAL SCALE	DESIGNATION NO. 1600503
DESIGNED: DHS			DRAWN: DHS	SURVEY BOOK NO.
CHECKED: DEB	CHECKED: DEB	CONTRACT NO. B-40407	PROJECT NO. 1600503	

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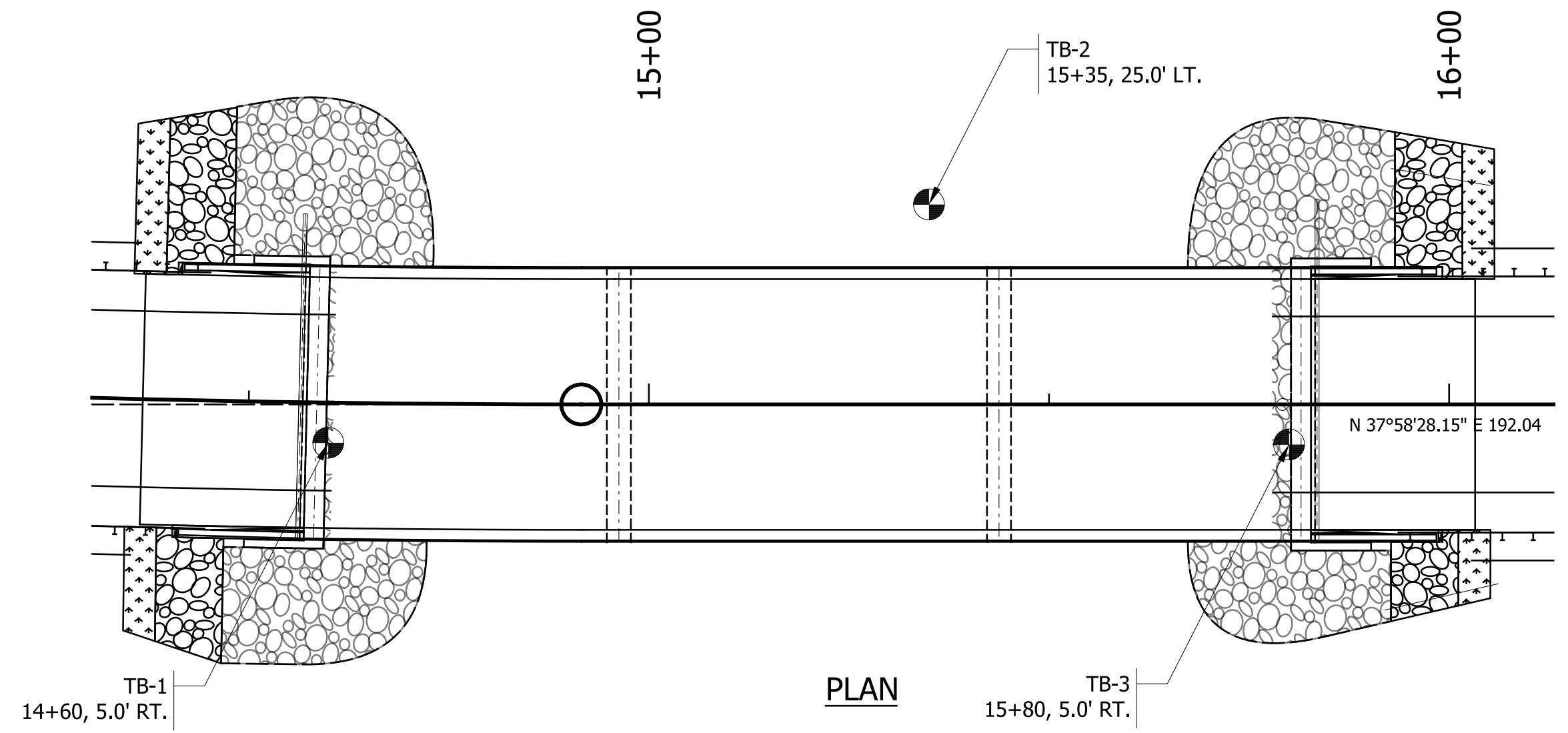
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EARTH EXPLORATION		LOG OF TEST BORING		BORING NO.: TB-3	
CLIENT: Strand Associates, Inc.		PROJECT NO.: CJ195497		SHEET: 1 OF 2	
DES NO.: 1600503		STRUCTURE #: 058-03-10186		LATITUDE: 39.12539	
PROJECT TYPE: Bridge Replacement		LOCATION: SR 58 over East Fork White Creek		LONGITUDE: -86.01617	
COUNTY: Bartholomew		DATE STARTED: 06-11-20		DATE COMPLETED: 06-12-20	
ELEVATION: 632.0		BORING METHOD: Hollow Stem Auger		HAMMER: Auto	
STATION: 15+80		RIG TYPE: CME 750 ATV		DRILLER/INSP: T.M.	
OFFSET: 5.0 ft Right		CASING DIA.:		TEMPERATURE: 80 °F	
LINE: TSCA		CORE SIZE: NO		WEATHER: Clear	
DEPTH: 50.0 ft		GROUNDWATER: Encountered at 8.0 ft		At completion 6.0 ft	
				Caved in at 14.5 ft	

ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per ft	RECOVERY %	MOISTURE CONTENT	DRY DENSITY, pcf	UNCONF. COMP. -sf	LL	PL	PI	REMARKS
630.0	1.0	Asphaltic Concrete	SS 1	4-5	44	12.5	1.0					
625.0	2.5	Sandy Loam, medium stiff, moist, brown, with sand seam near 2.5 ft. (possible fill)	SS 2	8-3	56	11.9	1.5					
620.0	5.0	Silty Clay Loam, soft, moist, brown, A-6, Lab No. 28432	SS 3	1-2	56	20.5	1.75					
615.0	7.5	Sandy Loam, soft to medium stiff, moist, brown, (visual)	SS 4	1-1	89	16.9	0.5					
610.0	11.5	Sandy Loam, soft to medium stiff, moist, brown, (visual)	SS 5	4-6	94	16.6	0.5					
605.0	15.0	Sand, medium dense to very loose, wet, brown, A-2-A(0), Lab No. 28485	SS 6	4-5	78				NP	NP	NP	13.5, pH = 8.1, C _u = 2.53
600.0	18.0	Gravelly Sand, medium dense, wet, brown, (visual)	SS 7	4-2	83							
595.0	20.0	Sand, medium dense, wet, brown, (visual)	SS 8	3-7	72							
590.0	25.0	Sand, medium dense, wet, brown, (visual)	SS 9	4-6	83							
585.0	29.0	Sand and Gravel, very dense, wet, brown, (visual)	SS 10	8-47-501	89							
580.0	30.0	Weathered Shale, soft, gray, possible residual soil										

EARTH EXPLORATION		LOG OF TEST BORING		BORING NO.: TB-3	
CLIENT: Strand Associates, Inc.		PROJECT NO.: CJ195497		SHEET: 2 OF 2	
DES NO.: 1600503		STRUCTURE #: 058-03-10186		LATITUDE: 39.12539	
PROJECT TYPE: Bridge Replacement		LOCATION: SR 58 over East Fork White Creek		LONGITUDE: -86.01617	
COUNTY: Bartholomew		DATE STARTED: 06-11-20		DATE COMPLETED: 06-12-20	
ELEVATION: 632.0		BORING METHOD: Hollow Stem Auger		HAMMER: Auto	
STATION: 15+80		RIG TYPE: CME 750 ATV		DRILLER/INSP: T.M.	
OFFSET: 5.0 ft Right		CASING DIA.:		TEMPERATURE: 80 °F	
LINE: TSCA		CORE SIZE: NO		WEATHER: Clear	
DEPTH: 50.0 ft		GROUNDWATER: Encountered at 8.0 ft		At completion 6.0 ft	
				Caved in at 14.5 ft	

ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT per ft	RECOVERY %	MOISTURE CONTENT	DRY DENSITY, pcf	UNCONF. COMP. -sf	LL	PL	PI	REMARKS
600.0	32.0	Weathered Shale, soft, gray, possible residual soil	SS 11	11-42-501	78							
595.0	37.0											
590.0	40.0											
585.0	42.5											
580.0	45.0	Shale, very soft, gray, low bedding planes										
575.0	47.5											
570.0	50.0	Bottom of Boring at 50.0 ft										

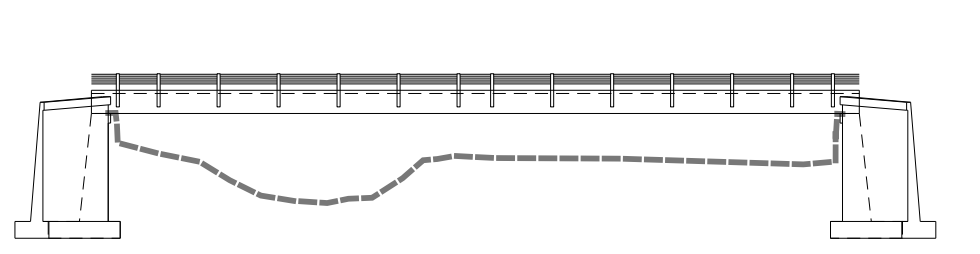
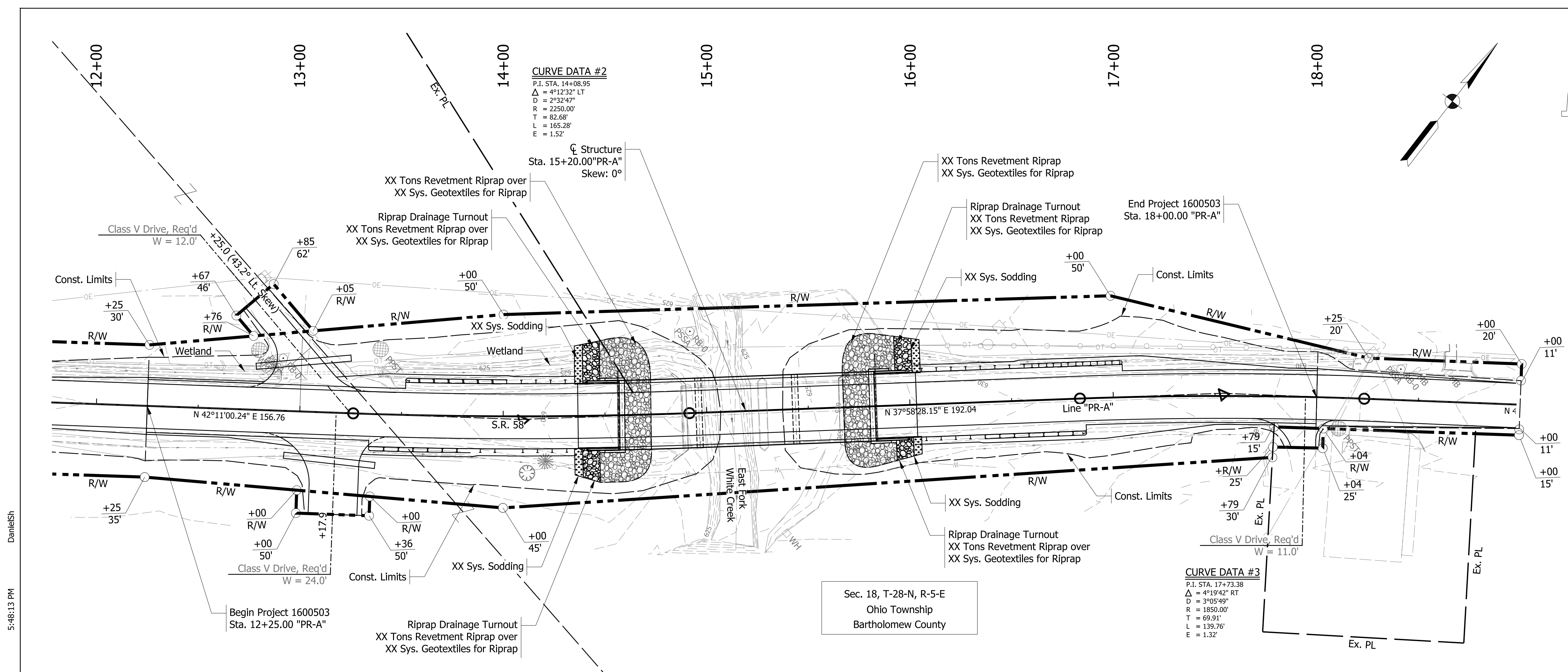


NOTES

1. N indicates the number of blows required to drive a 2 in. O.D. Split-Barrel Sampler 12 in. by means of a 140-lb weight falling 30 in., after being seated 6 in. into the material and then driven 12 in.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE NO.
	DESIGNED: DHS	DRAWN: DHS		1/8" = 1'-0"	058-03-10186
CHECKED: DEB	CHECKED: DEB		SOIL BORINGS - TB-3	VERTICAL SCALE	DESIGNATION NO.
				1600503	
			S.R. 58 OVER EAST FORK WHITE CREEK	SURVEY BOOK NO.	SHEETS
				14 of 24	
				CONTRACT NO.	PROJECT NO.
				B-40407	1600503

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EXISTING STRUCTURE

The existing structure (058-03-05885) is a two-span reinforced concrete girder bridge built in 1928 with two 39' spans and 33'-0" clear roadway reinforced concrete deck.

Existing superstructure and substructure are to be removed, including the removal of the existing footings. The channel is to be re-shaped at each abutment to match existing channel slopes on both the upstream and downstream sides of the existing structure.

HYDRAULIC DATA

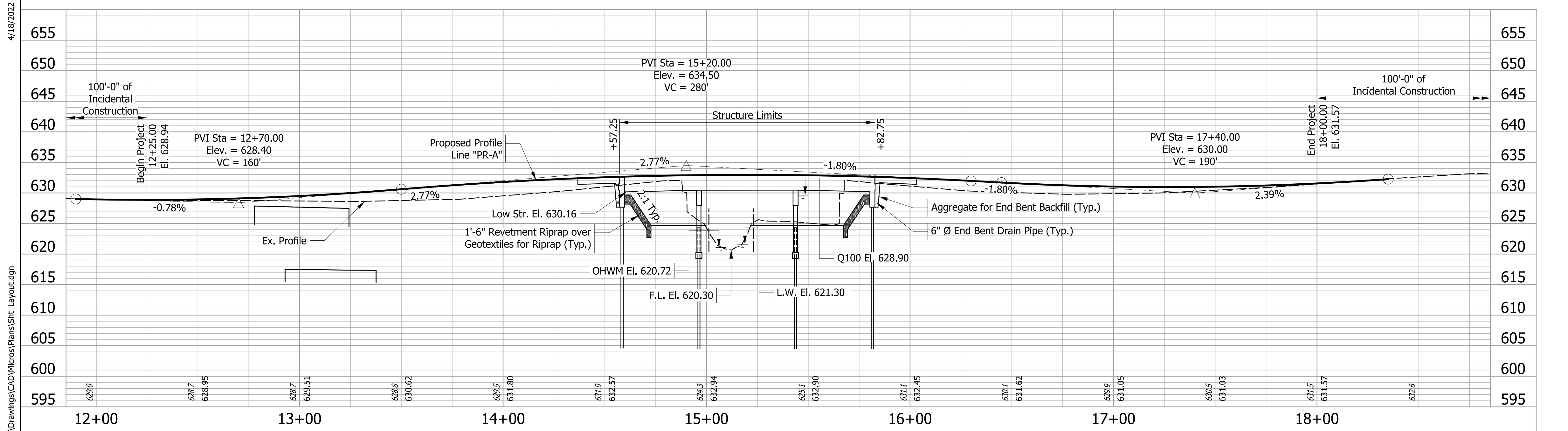
Drainage Area	4.48	sq. mi.
Q100	2,350	cfs
Q500	3,072	cfs
Elevation @ Q100	628.90	ft.
Ex. Headwater Elevation	629.65	ft.
Ex. Backwater	0.65	ft.
Ex. Velocity @ Q100	3.78	ft./sec.
Ex. Gross Waterway Opening Below Q100 Elevation (Str.)	493	sq. ft.
Ex. Road Overflow Waterway Area	314	sq. ft.
Ex. Low Structure Elevation	630.16	ft.
Pr. Q100 Headwater Elevation	629.63	ft.
Pr. Backwater	0.63	ft.
Pr. Velocity @ Q100	3.62	ft./sec.
Pr. Gross Waterway Opening Area Prov'd Below Q100 El. (Str.)	493	sq. ft.
Pr. Road Overflow Waterway Area	307	sq. ft.
Pr. Low Structure Elevation	630.16	ft.

HYDRAULIC SCOUR DATA

Q100 Contraction Scour	0	ft.
Q100 Total Scour	3.35	ft.
Q100 Low Scour Elevation	616.95	ft.
Q100 Max Velocity	4.89	ft./sec.
Q500 Elevation	629.98	ft.
Q500 Contraction Scour	0	ft.
Q500 Total Scour	3.38	ft.
Q500 Low Scour Elevation	616.92	ft.
Q500 Max Velocity	4.61	ft./sec.

EARTHWORK BALANCE

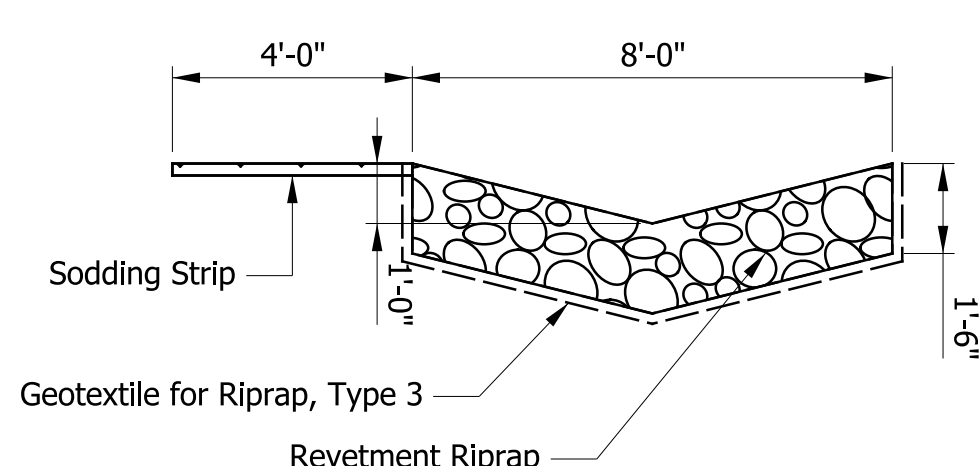
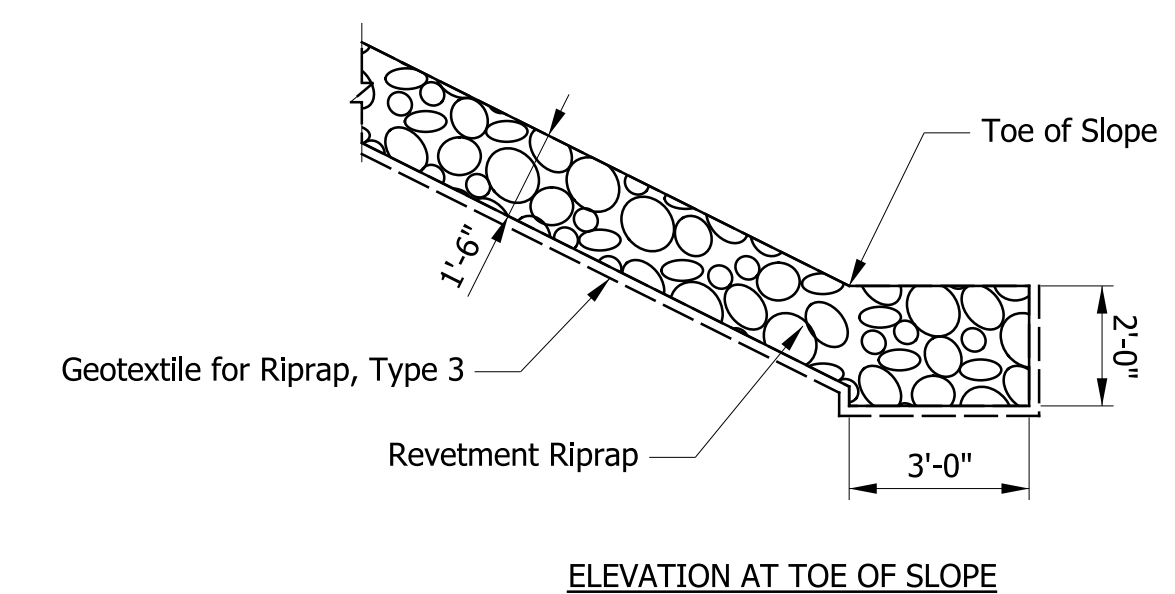
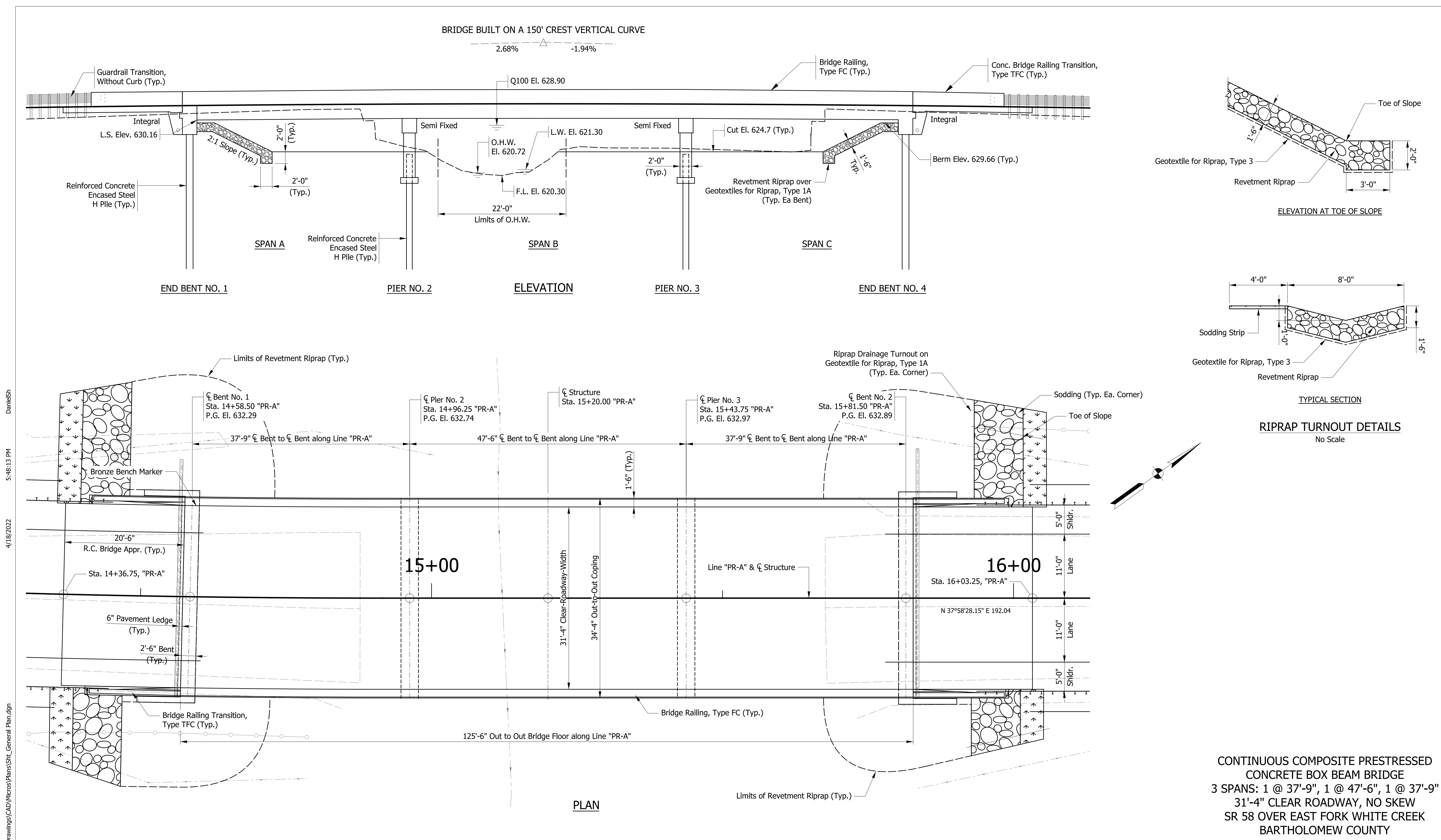
*To be completed with future submittal



CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGE
 3 SPANS: 1 @ 37'-9", 1 @ 47'-6", 1 @ 37'-9"
 31'-4" CLEAR ROADWAY, NO SKEW
 SR 58 OVER EAST FORK WHITE CREEK
 BARTHOLOMEW COUNTY

RECOMMENDED FOR APPROVAL _____ DESIGNED: DHS CHECKED: DEB	DESIGN ENGINEER _____ DATE _____ DRAWN: DHS CHECKED: DEB	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 30'	BRIDGE FILE NO. 058-03-10186
		LAYOUT		VERTICAL SCALE 1" = 10'	DESIGNATION NO. 1600503
		S.R. 58 OVER EAST FORK WHITE CREEK		SURVEY BOOK NO.	SHEETS 6 of 24
				CONTRACT NO. B-40407	PROJECT NO. 1600503

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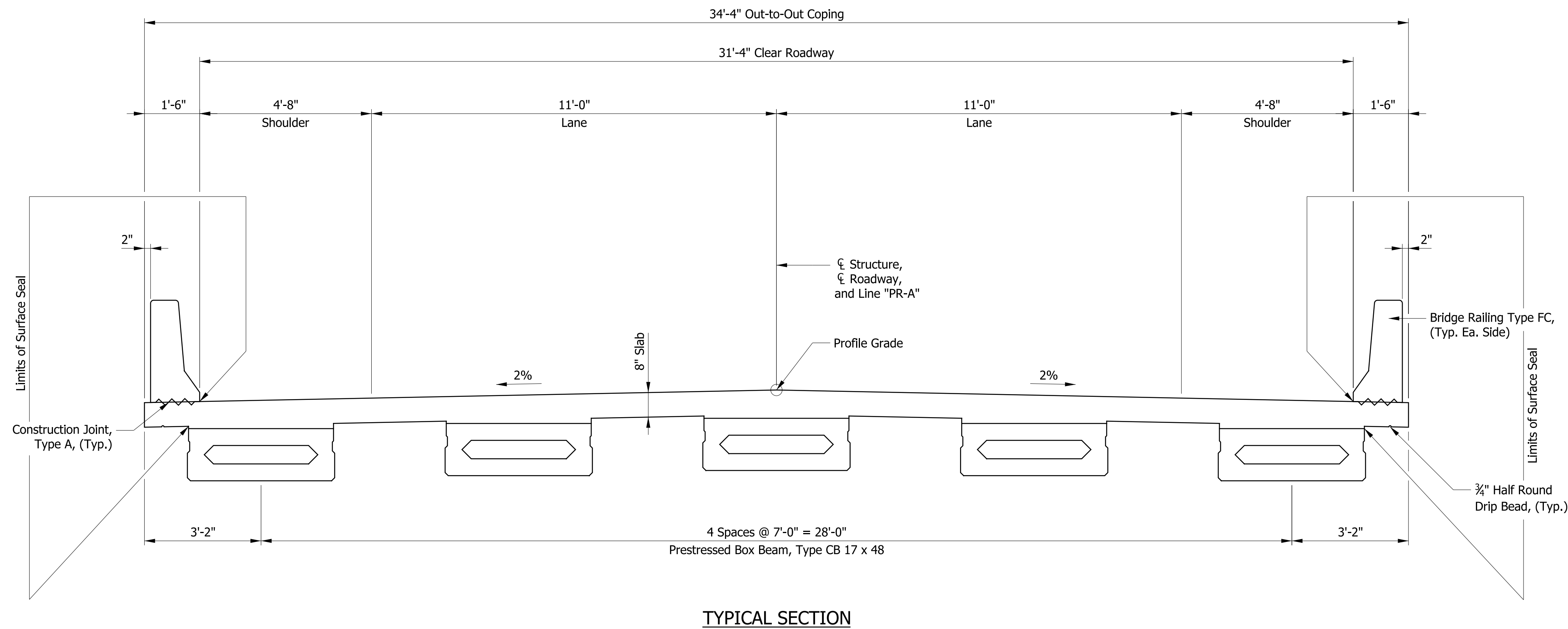
CONTINUOUS COMPOSITE PRESTRESSED
 CONCRETE BOX BEAM BRIDGE
 3 SPANS: 1 @ 37'-9", 1 @ 47'-6", 1 @ 37'-9"
 31'-4" CLEAR ROADWAY, NO SKEW
 SR 58 OVER EAST FORK WHITE CREEK
 BARTHOLOMEW COUNTY

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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE NO.
	DESIGNED: DHS	DRAWN: DHS		GENERAL PLAN	1/8" = 1'-0"
CHECKED: DEB	CHECKED: DEB		S.R. 58 OVER EAST FORK WHITE CREEK	VERTICAL SCALE	DESIGNATION NO.
					1600503
				SURVEY BOOK NO.	SHEETS
				CONTRACT NO.	16 of 24
				B-40407	PROJECT NO.
					1600503

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TYPICAL SECTION

CONSTRUCTION LOADING

The exterior girder has been checked for strength, deflection, and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. The finishing machine was assumed to be supported 6 in. outside the vertical coping form. The top overhang brackets were assumed to be located 6 in. past the edge of the vertical coping form. The bottom brackets were assumed to be braced against the intersection of the girder bottom flange and web.

- Deck Falsework Loads: Designed for 15 lb/sq. ft. for permanent metal stay-in-place deck forms, removable deck forms, and 2 ft. exterior walkway.
- Construction Live Load: Designed for 20 lb/sq. ft. extending 2 ft. past the edge of the coping and 75 lb/ft. vertical force applied at a distance of 6 in. outside the face of coping over a 30 ft. length of deck centered with the finishing machine.
- Finishing-Machine Load: 4500 lb. distributed over 10 ft along the coping.
- Wind Load: Structure designed for 70 mph horizontal wind loading in accordance with LRFD 3.8.1.

DESIGN DATA

Live Load: Superstructure and substructure designed for HL-93 loading, in accordance with the AASHTO LRFD Bridge Design Specifications, 8th Edition, 2018, and its subsequent interims.

Dead Load: Actual weight plus 35 lb./sq. ft. (composite) for future wearing surface and 15 lb./sq. ft. for permanent metal deck forms. The slab was designed with a 7½" structural depth and ½" wearing surface.

Unit Stresses:	$f_y = 60,000$	psi
	$f'_c = 4,000$	psi (Class C Concrete)
	$f'_c = 3,500$	psi (Class A concrete)

SEISMIC DATA

Seismic Performance Zone	Zone 1
Acceleration Coefficient	0.059
Seismic Soil Profile Type	Class D

GENERAL NOTES

- Reinforcing steel covering shall be 2½" in the top and 1" in the bottom of the floor slab, in superstructure, and 2" in all other parts, unless otherwise noted.
- Clean and surface seal the exposed faces of the barrier railing and coping. Surface seal is to be paid as a lump sum item. An alternate mix design may be used in lieu of concrete surface sealing.
- The letter "E" denotes Epoxy Coated Reinforcing Steel.

**CONTINUOUS COMPOSITE PRESTRESSED
CONCRETE BOX BEAM BRIDGE
3 SPANS: 1 @ 37'-9", 1 @ 47'-6", 1 @ 37'-9"
31'-4" CLEAR ROADWAY, NO SKEW
SR 58 OVER EAST FORK WHITE CREEK
BARTHOLOMEW COUNTY**

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE NO.
		1/2" = 1'-0"	058-03-10186
		VERTICAL SCALE	DESIGNATION NO.
			1600503
		SURVEY BOOK NO.	SHEETS
		17	of 24
		CONTRACT NO.	PROJECT NO.
		B-40407	1600503
DESIGNED: DHS CHECKED: DEB	DRAWN: DHS CHECKED: DEB	GENERAL PLAN S.R. 58 OVER EAST FORK WHITE CREEK	

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH FT	LENGTH FT	RADI FT	DISTANCE BEYOND R/W LINE FT	SURFACE BEYOND R/W LINE			GRADE		EXCAVATION		CLEAR ZONE AT DRIVE FT	SUBBASE FOR PCCP CYS	QC/QA-HMA			MILLED HMA CORRUGATIONS LFT	MILLING, ASPHALT, 1 1/2 IN SYS	TACK COAT SYS	RETROFITTED TIE BARS EACH	TERMINAL JOINT LFT	SAWCUT LFT	COMPACTED AGGREGATE NO. 53		COMPACTED AGGREGATE NO. 73		SUBGRADE TREATMENT TYPE IC SYS	PAVEMENT REMOVAL SYS	REMARKS													
						COMPACTED AGGREGATE BASE SYS	HMA SYS	PCCP SYS	1 %	2 %	CUT CYS	FILL CYS			2.64 SURFACE, 9.5 mm LBS PER SYD	2.64, INTERMD, 19.0 mm LBS PER SYD	2.64, BASE, 19.0mm LBS PER SYD							DEPTH	DEPTH	DEPTH	DEPTH																
															165	275	660																										
Line "PR-A"																																											
12+25.00 "PR-A"	V																																										
18+00.00 "PR-A"	II																																										
TOTAL																																											

PAVEMENT MARKINGS TABLE

LOCATION	LINE, PAINT			SNOWPLOWABLE RAISED PAVEMENT MARKER*	
	SOLID YELLOW 4 IN. FT	SOLID WHITE 4 IN. FT	BROKEN YELLOW 4 IN. FT	SPACING 80' REMOVE EACH	SPACING 80' INSTALL EACH
	LINE "PR-A"				
TOTAL					

* Do not install RPM's on bridge deck and approach slabs

GUARDRAIL SUMMARY TABLE

LOCATION		MGS GUARDRAIL LENGTH										CURVED W-BEAM GUARDRAIL SYSTEM								REMARKS										
FROM STATION	TO STATION	LEFT MEDIAN LEFT MEDIAN RIGHT RIGHT	STANDARD POST AT 6 FT 3 IN. SPA.	STANDARD POST AT 3 FT 1.5 IN. SPA.	DOUBLE FACED AT 6 FT 3 IN. SPA.	DOUBLE FACED AT 3 FT 1.5 IN. SPA.	SHOP CURVED AT ____ FT. SPA.	NESTING GUARDRAIL EACH	GUARDRAIL FLARE RATE	TRANSITION W/O CURB EACH	GUARDRAIL TRANSITION TYPE TPF-1 EACH	GUARDRAIL HEIGHT TRANSITION EACH	GUARDRAIL END TREATMENT TYPE OS EACH	TERMINAL SYSTEM		CONNECTOR SYSTEM		GUARDRAIL REMOVE LFT	GUARDRAIL RESET LFT		IMPACT ATTENUATOR TYPE EACH	IMPACT ATTENUATOR TYPE EACH								
														TYPE	EACH	TYPE	EACH													
38+68.5	40+04.8	X																												
38+31.0	40+04.8		X																											
41+25.1	42+86.1	X																												
41+25.1	43+33.9		X																											
TOTALS																														

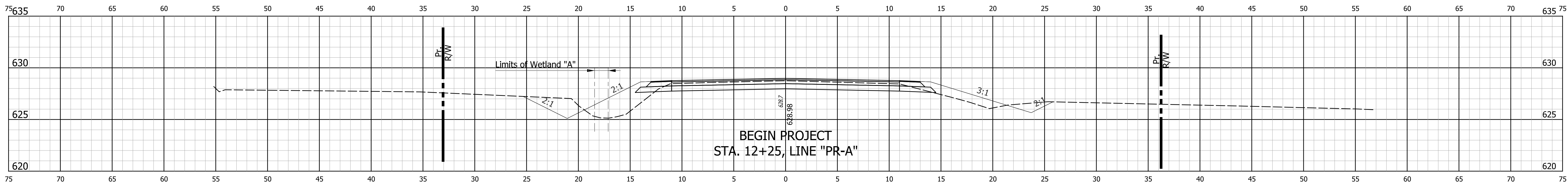
MONUMENT TABLE

STATION	OFFSET	MONUMENT
12+25.00 "PR-A"	0'	B
xx		B
xx		B
18+00.00 "PR-A"	0'	B

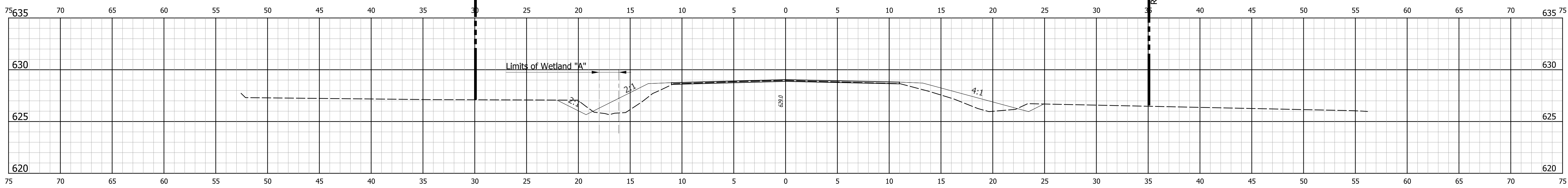
R/W MARKER TABLE

STATION	OFFSET

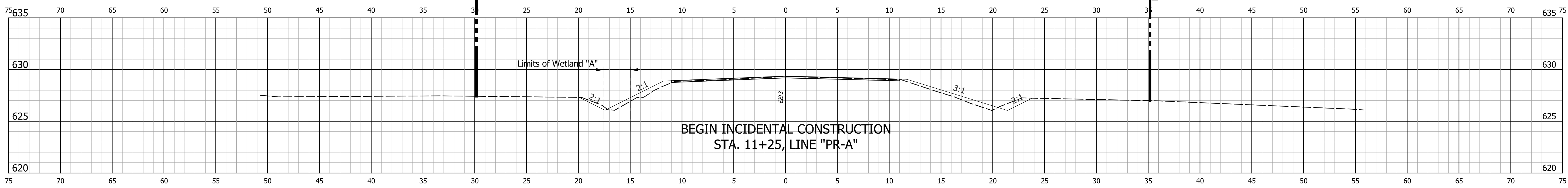
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 1'-0"	BRIDGE FILE NO. 058-03-10186
	DESIGNED: DHS	DRAWN: DHS	VERTICAL SCALE	DESIGNATION NO. 1600503
CHECKED: DEB	CHECKED: DEB	ROADWAY SUMMARY		SURVEY BOOK NO.
		S.R. 58 OVER EAST FORK WHITE CREEK		SHEETS 19 of 24
			CONTRACT NO. B-40407	PROJECT NO. 1600503



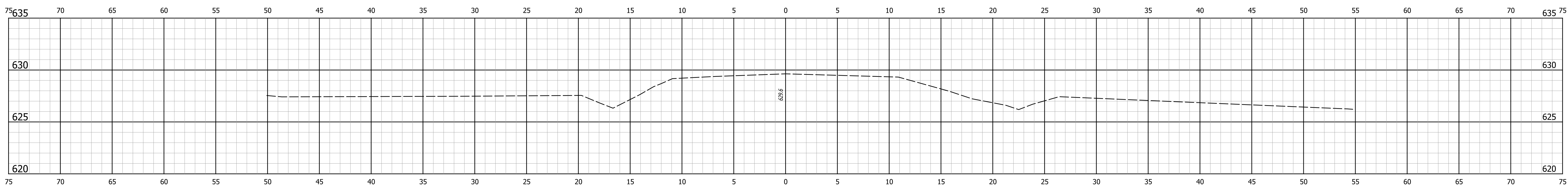
STA. 12+50



STA. 12+00



STA. 11+50



STA. 11+00

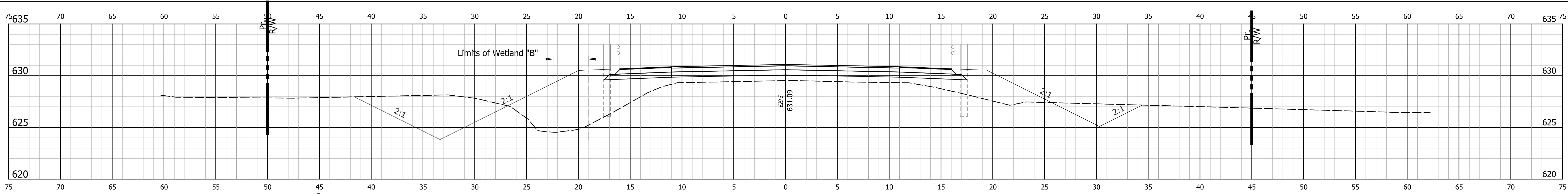
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: DHS	DRAWN: DHS	
CHECKED: DEB	CHECKED: DEB	

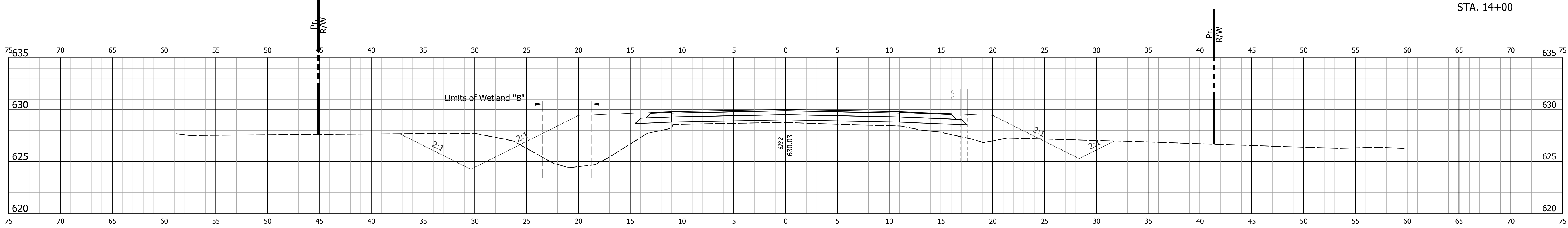
INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 11+00 "A" TO STA. 12+50 "A"

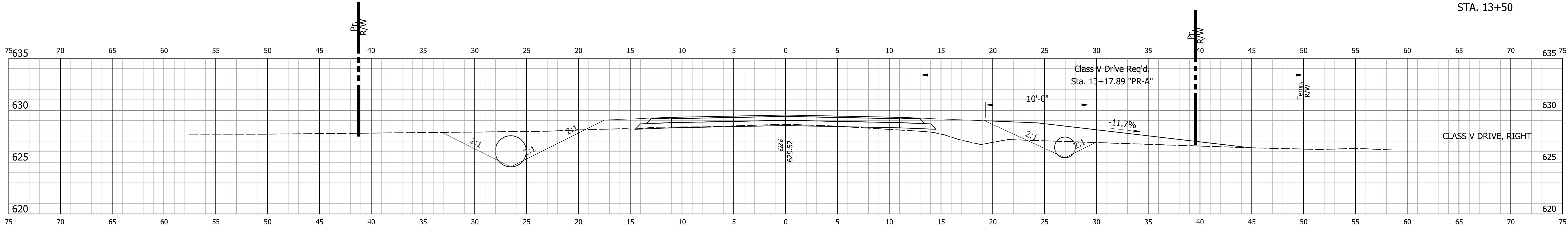
HORIZONTAL SCALE 1" = 5'	BRIDGE FILE NO. 058-03-10186
VERTICAL SCALE 1" = 5'	DESIGNATION NO. 1600503
SURVEY BOOK NO.	SHEETS 20 of 24
CONTRACT NO. B-40407	PROJECT NO. 1600503



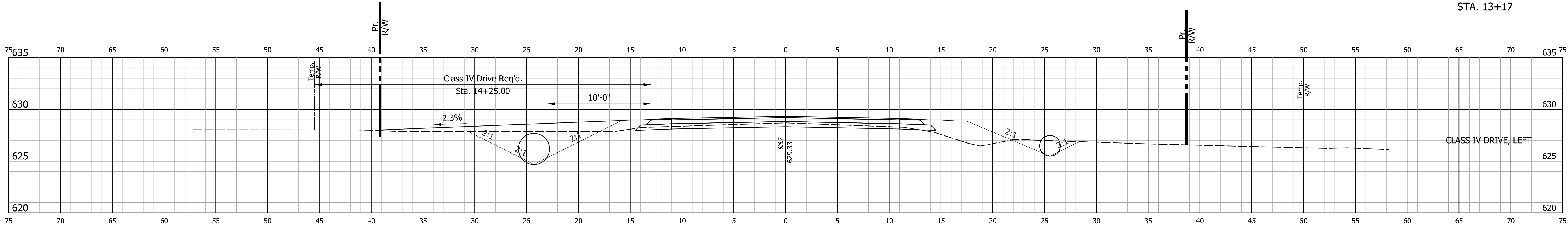
STA. 14+00



STA. 13+17



STA. 13+17



STA. 13+00

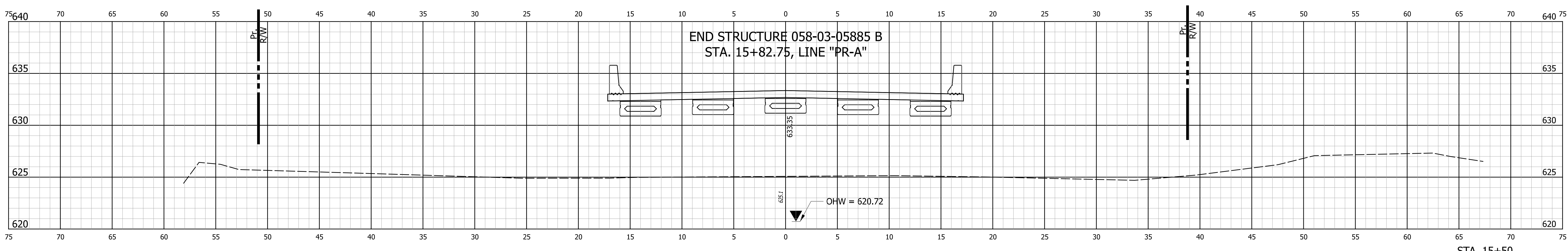
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: DHS	DRAWN: DHS	
CHECKED: DEB	CHECKED: DEB	

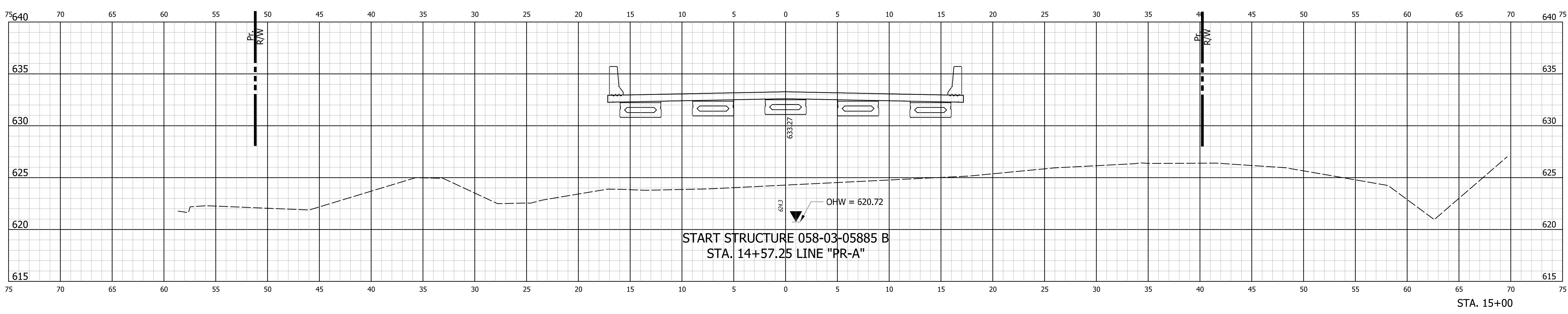
INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 13+00 "A" TO STA. 14+00 "A"

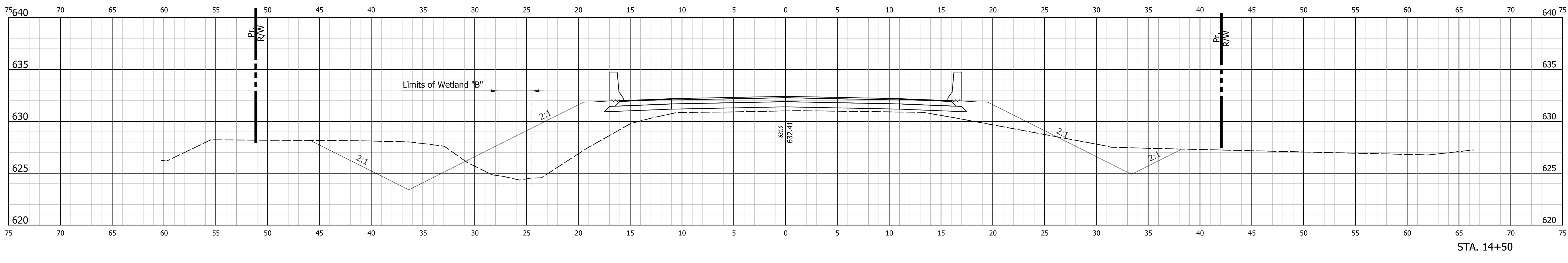
HORIZONTAL SCALE 1" = 5'	BRIDGE FILE NO. 058-03-10186
VERTICAL SCALE 1" = 5'	DESIGNATION NO. 1600503
SURVEY BOOK NO.	SHEETS 21 of 24
CONTRACT NO. B-40407	PROJECT NO. 1600503



STA. 15+50



STA. 15+00



STA. 14+50

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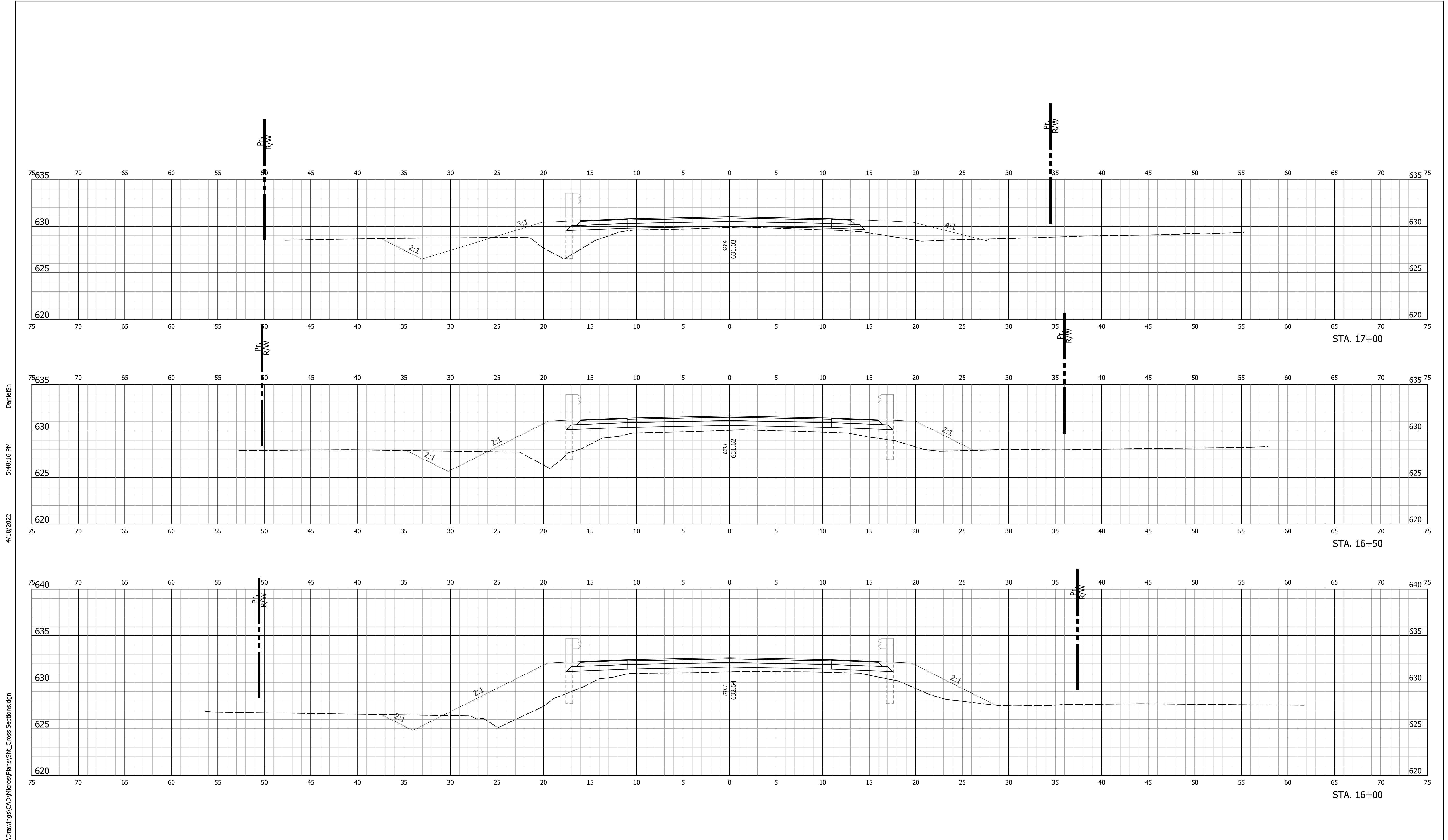
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: DHS	DRAWN: DHS	
CHECKED: DEB	CHECKED: DEB	

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

STA. 14+50 "A" TO STA. 15+50 "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE NO. 058-03-10186
VERTICAL SCALE 1" = 5'	DESIGNATION NO. 1600503
SURVEY BOOK NO.	SHEETS 22 of 24
CONTRACT NO. B-40407	PROJECT NO. 1600503

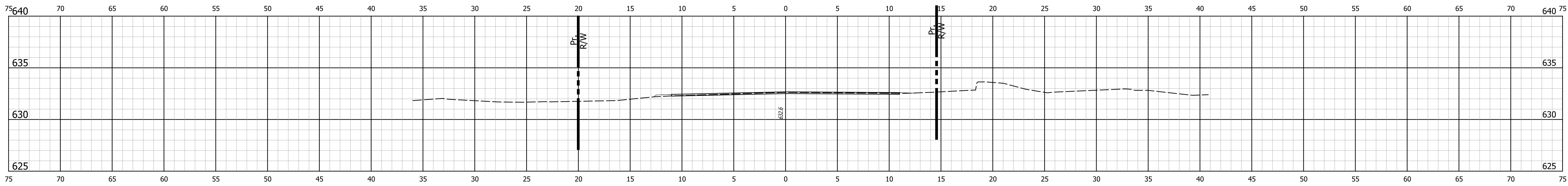


DanielSH
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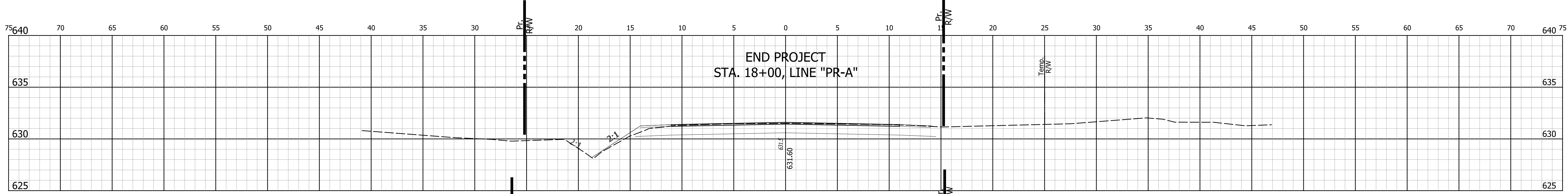
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: DHS	DRAWN: DHS	
CHECKED: DEB	CHECKED: DEB	

INDIANA
DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
STA. 16+00 "A" TO STA. 17+00 "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE NO. 058-03-10186
VERTICAL SCALE 1" = 5'	DESIGNATION NO. 1600503
SURVEY BOOK NO.	SHEETS 23 of 24
CONTRACT NO. B-40407	PROJECT NO. 1600503

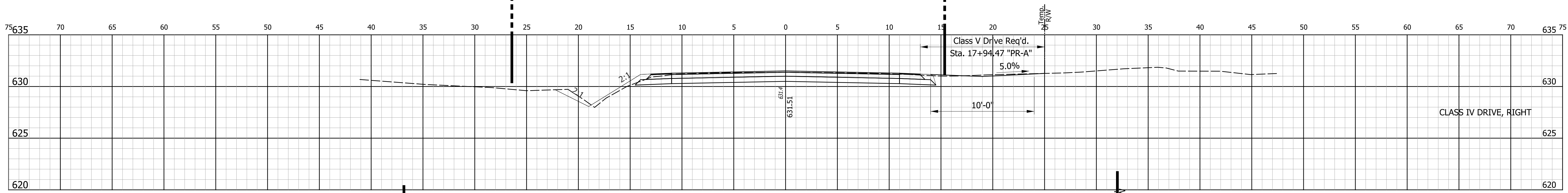


STA. 18+50



END PROJECT
STA. 18+00, LINE "PR-A"

STA. 18+00



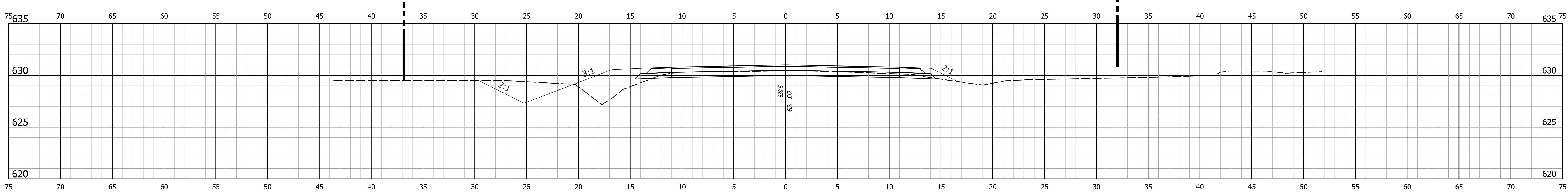
Class V Drive Req'd.
Sta. 17+94.47 "PR-A"

5.0%

10'-0"

CLASS IV DRIVE, RIGHT

STA. 17+94



STA. 17+50

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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: DHS	DRAWN: DHS	
CHECKED: DEB	CHECKED: DEB	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 17+50 "A" TO STA. 18+50 "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE NO. 058-03-10186
VERTICAL SCALE 1" = 5'	DESIGNATION NO. 1600503
SURVEY BOOK NO.	SHEETS 24 of 24
CONTRACT NO. B-40407	PROJECT NO. 1600503