

PROJECT	DESIGNATION NO.
1702735	1702735
CONTRACT	BRIDGE FILE
B 41155	90-00106

STRUCTURE INFORMATION			
STRUCTURE	TYPE	SPAN AND SKEW	OVER
90-00106	Reinforced Concrete Arch Under Fill	2 Spans: 43'-9", 43'-9" Square	Rock Creek

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE REHABILITATION PLANS FOR SPANS OVER 20 FEET ON COUNTY ROAD 100 NORTH OVER ROCK CREEK

PROJECT NO. 1702735 P.E.
1702735 CONST.
1702735 R/W

APPROVED BY
WELLS COUNTY BOARD OF COMMISSIONERS

BLAKE GERBER, PRESIDENT

KEVIN S. WOODWARD, VICE PRESIDENT

TAMARA L. ROBBINS, MD, MEMBER

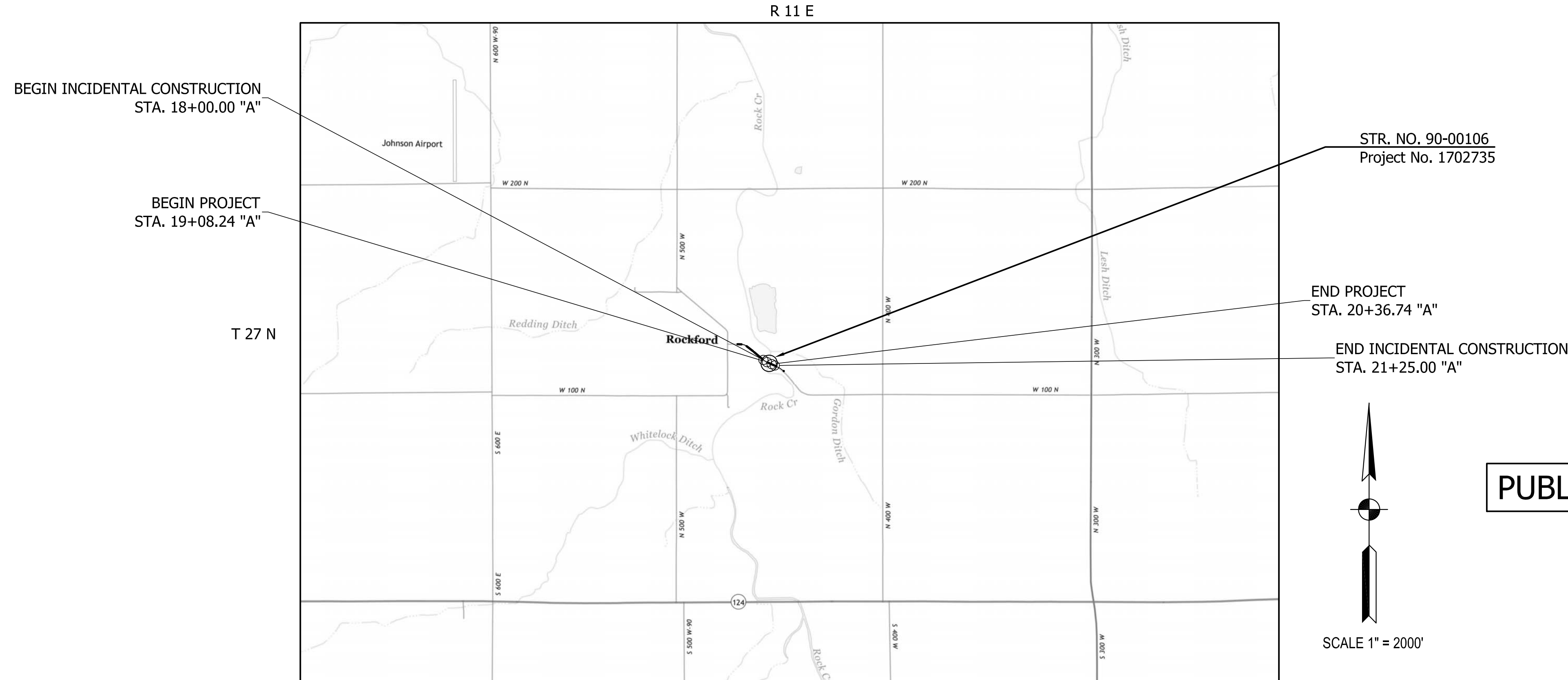
ATTEST DATE

LISA MCCORMICK, COUNTY AUDITOR

RECOMMENDED FOR APPROVAL DATE

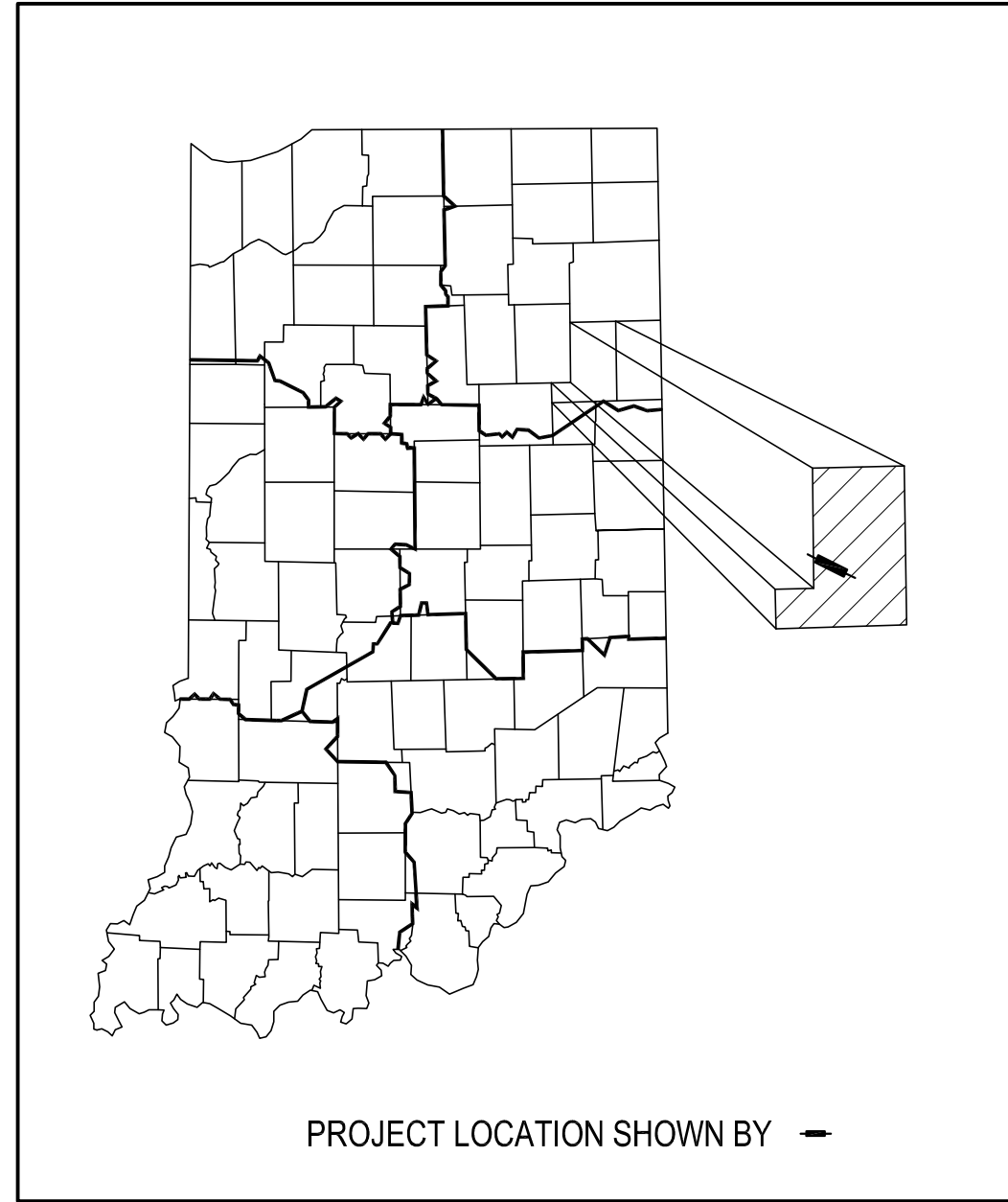
NATE RUMSCHLAG, P.E.,MCM, & LEED-AP - COUNTY HIGHWAY ENGINEER

BRIDGE DECK RECONSTRUCTION, BRIDGE RAILING, SPANDREL WALL, AND CURB REPLACEMENT, AND REPAIR OF A PORTION OF THE ARCH RING FROM THE COPING INWARD UNTIL DETERIORATED PORTIONS ARE REMOVED.
WELLS COUNTY ROAD 100 NORTH OVER ROCK CREEK,
LOCATED 0.5 MILES WEST OF C.R. 400 W. IN
SECTION 29, T27N, R11E, ROCK CREEK TOWNSHIP, WELLS COUNTY, INDIANA



LOCATION MAP

TRAFFIC DATA			
A.A.D.T. (2017)	250	V.P.D.	
A.A.D.T. (2043)	324	V.P.D.	
D.H.V. (2043)	32	V.P.H.	
DIRECTIONAL DISTRIBUTION	50 %		
TRUCKS	3 % D.H.V.		
	3 % A.A.D.T.		
DESIGN DATA			
DESIGN SPEED	30 MPH		
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)		
FUNCTIONAL CLASSIFICATION	LOCAL		
RURAL/URBAN	RURAL		
TERRAIN	Level		
ACCESS CONTROL	None		



LATITUDE: 40°45'31.43" LONGITUDE: 85°18'34.29"

BRIDGE LENGTH = 0.017 miles
ROAD LENGTH = 0.045 miles
TOTAL LENGTH = 0.062 miles
MAX. GRADE = +2.62%

HUC: 05120101080060

PUBLIC HEARING PLANS 3-1-2021

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



8415 East 56th Street
Indianapolis, Indiana 46216

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

BRIDGE FILE		
90-00106		
DESIGNATION NO.		
1702735		
SHEETS		
1	of	32
PROJECT NO.		
1702735		

CONTRACT	
B 41155	

AMERICAN ELECTRIC POWER (DISTRIBUTION) 3514 Landin Road New Haven, IN 46774 Contact: Corey Noble PH: (260) 749-3076 Email: cenoble@aep.com	AMERICAN ELECTRIC POWER-TX 850 Tech Center Drive Gahanna, OH 43251 Contact: Joshua Adams PH: (614) 933-2297 Email: tl_publicprojects@aep.com
---	---

426 N. Wayne
P.O. Box 330
Warren, IN 46792
Contact: Neil Laymon
PH: (260) 375-2111
Email: meillaymon@ciznet.com

[illegible]

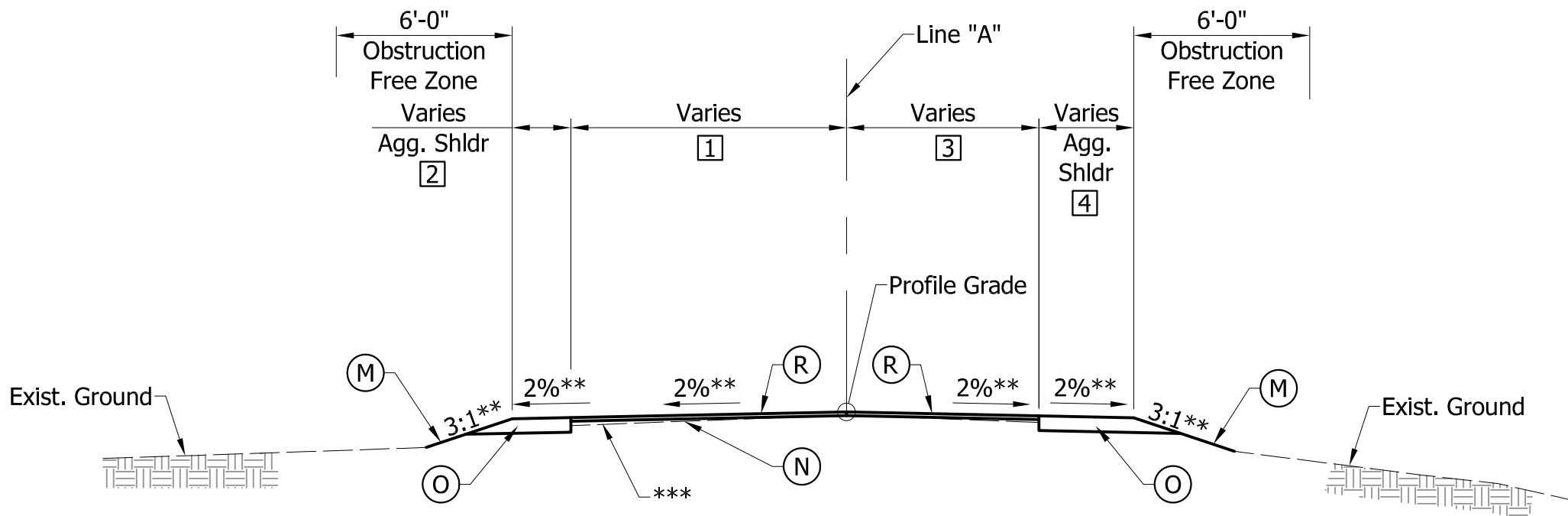
THE LOCATIONS OF ALL EXISTING UNDERGROUND UTILITIES SHOWN ON THIS PLAN ARE BASED UPON ABOVE GROUND EVIDENCE (including, but not limited to, manholes, inlets, valves, and marks made upon the ground by others) AND ARE SPECULATIVE IN NATURE. THERE MAY ALSO BE OTHER EXISTING UNDERGROUND UTILITIES FOR WHICH THERE IS NO ABOVE GROUND EVIDENCE OR FOR WHICH NO ABOVE GROUND EVIDENCE WAS OBSERVED. THE EXACT LOCATIONS OF SAID EXISTING UNDERGROUND UTILITIES SHALL BE VERIFIED BY THE CONTRACTOR PRIOR TO ANY AND ALL CONSTRUCTION.

[illegible]

NOT FOR
CONSTRUCTION

INDEX

HORIZONTAL SCALE	BRIDGE FILE		
NONE	90-00106		
VERTICAL SCALE	DESIGNATION		
NONE	1702735		
SURVEY BOOK		SHEETS	
		2	of 32
CONTRACT		PROJECT	
B 41155		1702735	



**Unless Noted on the cross sections

TYPICAL SECTION
RESURFACE

Scale: 1" = 5'
Sta. 18+00.00 to Sta. 19+08.24 "A"
Sta. 20+36.74 to Sta. 21+25.00 "A"

*** 1 1/2" Milling from Sta. 18+00.00 to Sta. 18+75.00 "A"
1/2" Milling from Sta. 18+75.00 to Sta. 19+08.24 "A"

1/2" Milling from Sta. 20+36.74 to Sta. 21+00.00 "A"
1 1/2" Milling from Sta. 21+00.00 to Sta. 21+25.00 "A"

[1] Varies from 8.88' at Sta. 18+00.00 to 7.38' at Sta. 19+08.24 "A", Lt.

Varies from 7.88' at Sta. 20+36.74 to 11.00' at Sta. 21+25.00 "A", Lt.

[2] 1.0' from Sta. 18+00.00 to Sta. 19+81.00 "A", Lt.
Varies from 1.0' at Sta. 18+81.00 to 3.44' at Sta. 19+08.24 "A", Lt.

Varies from 3.06' at Sta. 20+36.74 to 2.81' at Sta. 20+50.00 "A", Lt.
Varies from 2.81' at Sta. 20+50.00 to 2.0' at Sta. 20+72.00 "A", Lt.
2.0' from Sta. 20+72.00 to Sta. 21+00.00 "A", Lt.
Varies from 2.0' at Sta. 21+00.00 to 1.0' at Sta. 21+25.00 "A", Lt.

[3] Varies from 7.88' at Sta. 18+00.00 to 6.63' at Sta. 19+08.24 "A", Rt.

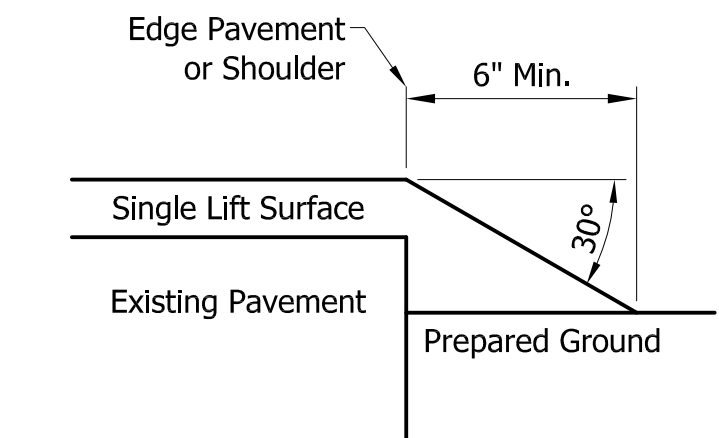
Varies from 6.75' at Sta. 20+36.74 to 6.19' at Sta. 21+25.00 "A", Rt.

[4] 1.0' from Sta. 18+00.00 to Sta. 18+83.00 "A", Rt.
Varies from 1.0' at Sta. 18+83.00 to 4.31' at Sta. 19+08.24 "A", Rt.

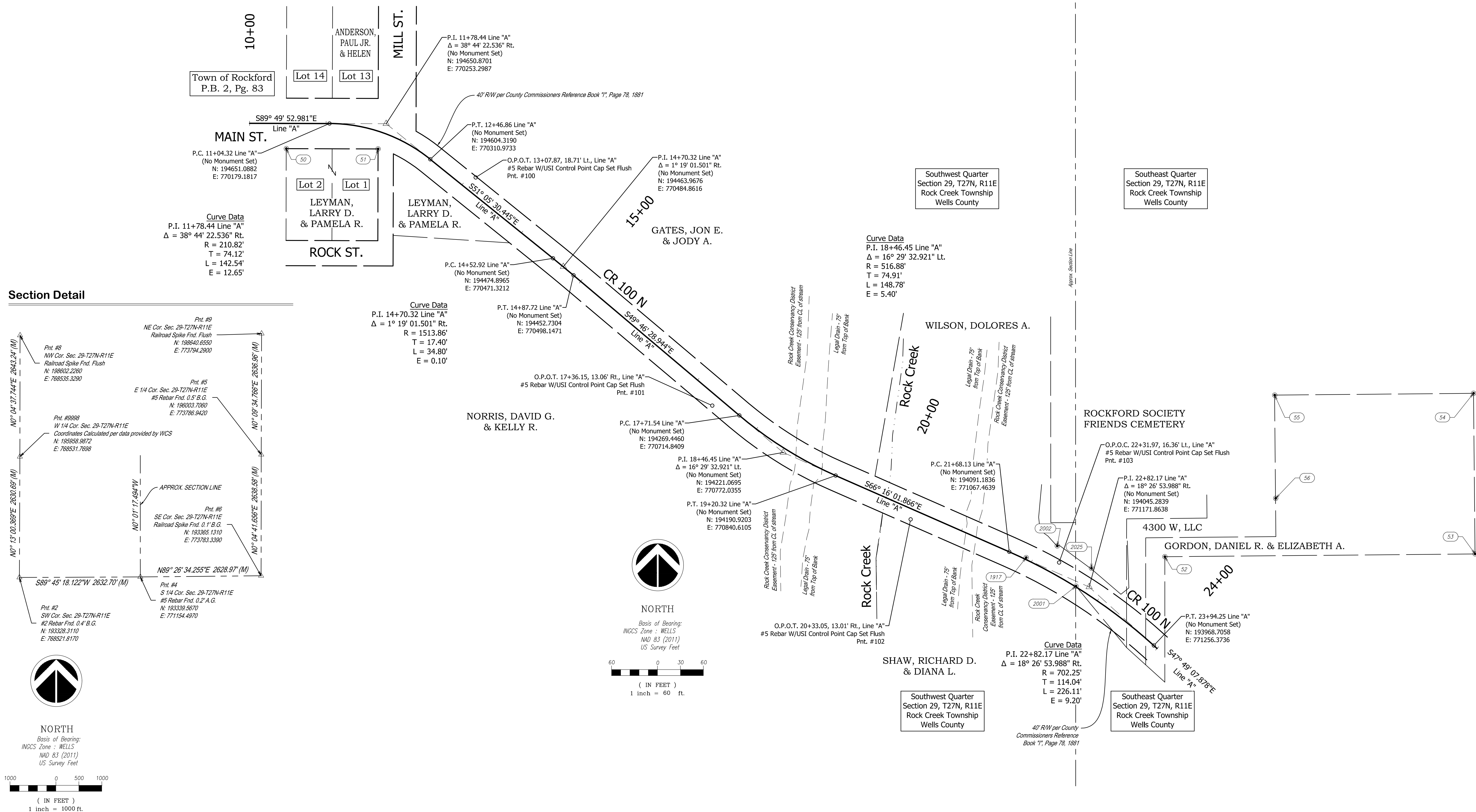
Varies from 4.13' at Sta. 20+36.74 to 4.38' at Sta. 20+70.00 "A", Rt.
Varies from 4.38' at Sta. 20+70.00 to 2.0' at Sta. 21+00.00 "A", Rt.
Varies 2.0' from Sta. 21+00.00 to 1.0' at Sta. 21+25.00 "A", Rt.

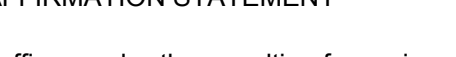
Assumed Pavement Design.
Final Pavement Design to be
provided by INDOT

- LEGEND**
- (R) 1 1/2" HMA Milling and place
165 #/Syd. QC/QA-HMA, 2, 64, Surface
(Sta. 18+00.00 to Sta. 18+75.00 "A")
(Sta. 21+00.00 to Sta. 21+25.00 "A")
1/2" HMA Milling and place
165 #/Syd. QC/QA-HMA, 2, 64, Surface on
Variable QC/QA-HMA, 2, 64, Base
(Sta. 18+75.00 to Sta. 19+08.24 "A")
(Sta. 20+36.74 to Sta. 21+00.00 "A")
 - (M) Mulched Seeding "R"
 - (N) Tack Coat
 - (O) 6 in. Compacted Aggregate No. 53 for Shoulder

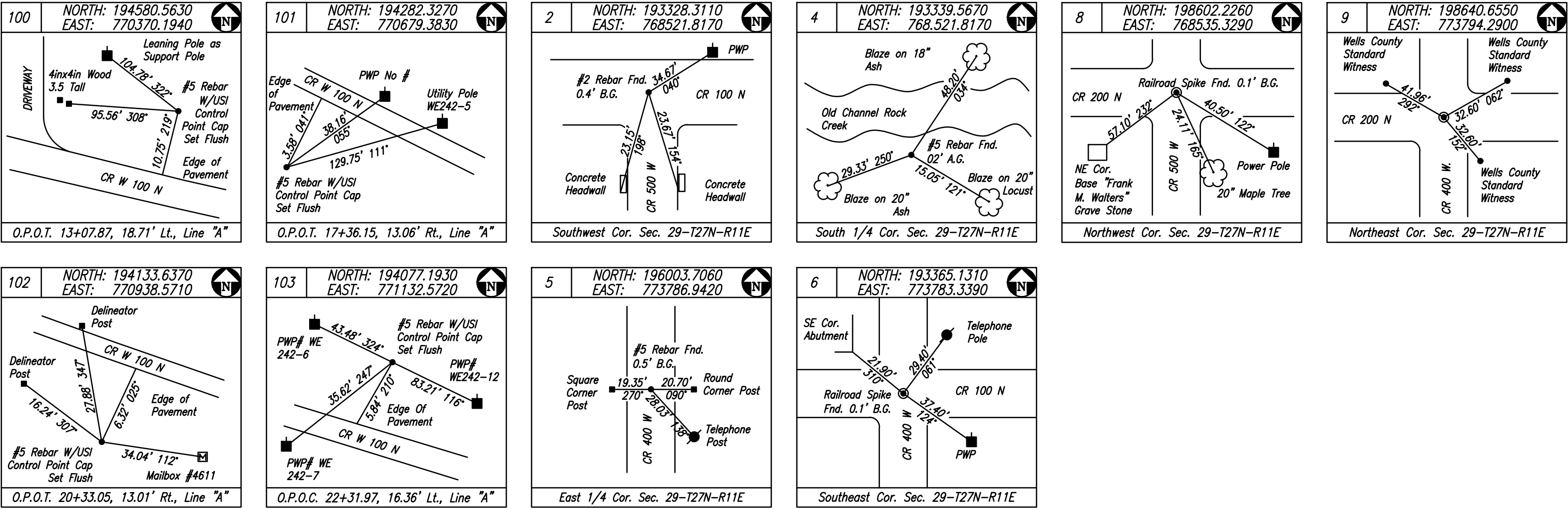


Safety Edge on HMA Pavement Detail
No Scale



SURVEY STARTED			20190675 MISC \$30.00 03/08/2019 11:43:23A 2 PGS Carolyn C Bertsch Wells County Recorder IN Recorded as Presented 	SURVEYOR STATEMENT			AFFIRMATION STATEMENT		 8415 East 56th St. Indianapolis, IN 46216 PH. 317.544.4996 FAX 317.544.4997	CR 100N OVER ROCK CREEK WELLS COUNTY BRIDGE #106		HORIZONTAL SCALE		BRIDGE FILE			
12/21/2018				This survey, to the best of my knowledge and belief, is executed according to the provisions of Title 865 IAC 1-12-20 through 1-12-26 regarding Route Surveys, except that any data shown regarding the location or description of the existing parcels is not a part of this survey.			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. By: Mark A. Schepers			RECOMMENDED FOR APPROVAL AND PREPARED BY:  MARK A. SCHEPERS, PS DATE 03/04/2019		LOCATION CONTROL ROUTE SURVEY		1" = 60" Except as Noted		COUNTY	
SURVEY COMPLETED														WELLS			
01/11/2019														SURVEY BOOK		PLAN SHEETS	
ROUTE PLAT SHEETS														CONTRACT		PROJECT	
1	OF	2									4	OF	32				

Section Corner and Control Point References



Point Data Table

Point #	Station	Type	inGCS Northing	inGCS Easting	Latitude	Longitude
2	SW Cor. Sec. 29-T27N-R11E	#2 Rebar Fnd. 0.4' B.G.	193328.3110	768521.8170	38°09'23.4957"	-86°12'56.3401"
4	S 1/4 Cor. Sec. 29-T27N-R11E	#5 Rebar Fnd. 0.2' A.G.	193339.5670	771154.4970	38°09'23.6241"	-86°12'23.3811"
5	E 1/4 Cor. Sec. 29-T27N-R11E	#5 Rebar Fnd. 0.5' B.G.	196003.7060	773786.9420	38°09'49.9742"	-86°11'50.4420"
6	SE Cor. Sec. 29-T27N-R11E	Railroad Spike Fnd. 0.1' B.G.	193365.1310	773783.3390	38°09'23.8914"	-86°11'50.4702"
8	NW Cor. Sec. 29-T27N-R11E	Railroad Spike Fnd. Flush	198602.2260	768535.3290	38°10'15.6294"	-86°12'56.2177"
9	NE Cor. Sec. 29-T27N-R11E	Railroad Spike Fnd. Flush	198640.6550	773794.2900	38°10'16.0410"	-86°11'50.3668"
50	Boundary Evidence	#5 Capped Rebar Fnd. ("Stoody")	194618.2540	770122.8090	38°09'36.2578"	-86°12'36.3074"
51	Boundary Evidence	#5 Capped Rebar Fnd. ("Stoody")	194617.9010	770242.7580	38°09'36.2551"	-86°12'34.8057"
52	Boundary Evidence	#5 Capped Rebar Fnd. ("Stoody")	194084.7700	771270.8430	38°09'30.9913"	-86°12'21.9302"
53	Boundary Evidence	#5 Capped Rebar Fnd. ("Stoody")	194088.4540	771676.1490	38°09'31.0301"	-86°12'16.8560"
54	Boundary Evidence	#5 Capped Rebar Fnd. ("Stoody")	194298.4030	771674.1600	38°09'33.1055"	-86°12'16.8824"
55	Boundary Evidence	#5 Capped Rebar Fnd. ("Stoody")	194296.0060	771414.3010	38°09'33.0803"	-86°12'20.1357"
56	Boundary Evidence	#5 Capped Rebar Fnd. ("Stoody")	194161.0610	771415.6270	38°09'31.7463"	-86°12'20.1181"
100	O.P.O.T. 13+07.87, 18.71' Lt., Line "A"	#5 Rebar W/USI Control Point Cap Set Flush	194580.5630	770370.1940	38°09'35.8868"	-86°12'33.2099"
101	O.P.O.T. 17+36.15, 13.06' Rt., Line "A"	#5 Rebar W/USI Control Point Cap Set Flush	194282.3270	770679.3830	38°09'32.9406"	-86°12'29.3366"
102	O.P.O.T. 20+33.05, 13.01' Rt., Line "A"	#5 Rebar W/USI Control Point Cap Set Flush	194133.6370	770838.5710	38°09'31.4723"	-86°12'26.0905"
103	O.P.O.C. 22+31.97, 16.36' Lt., Line "A"	#5 Rebar W/USI Control Point Cap Set Flush	194077.1930	771132.5720	38°09'30.9156"	-86°12'23.6612"
1917	Boundary Evidence	Mag Nail Fnd.	194083.6386	771089.6524	38°09'30.9780"	-86°12'24.1886"
2001	Boundary Evidence	Mag Nail Fnd.	194046.3058	771154.7120	38°09'30.6104"	-86°12'23.3838"
2002	Boundary Evidence	1" Iron Pipe Fnd. 0.2' B.G.	194089.8931	771130.2101	38°09'31.1301"	-86°12'23.6910"
2025	Boundary Evidence	1" Iron Pipe Fnd. 0.2' B.G.	194069.6873	771174.8623	38°09'30.8416"	-86°12'23.1317"
9998	W 1/4 Cor. Sec. 29-T27N-R11E	Coordinates Calculated per data provided by WCS	195958.9872	768531.7698	38°09'49.5005"	-86°12'56.2388"

Right of Way:

Right of Way for County Road 100N is shown as 40' total. This figure was provided according to the County R/W book, and the reference provided to us was County Commissioners Reference Book "I" Page 78, dated 1881. It is worth noting this may not meet the standard required to show that the County has a 40' R/W (usually a record of petition of and adoption by the County Commissioners is required), so the right of way may be a prescriptive R/W running along the edge of pavement.

The Right of Way within the Plat of the Town of Rockford (Reference survey 1) are shown as per plat - 49.5' on Mill Street, 66' on Main street, and 33' on Rock Street.

The right of way, parcel lines and ownership information shown on this plat are preliminary. This information is shown only to help orient the user of this plat as it relates to the centerlines. The source of this information is from the last deed of record obtained from the County Recorders Office as well as the above-mentioned plans. The consultant responsible for the Right of Way Engineering will complete the final determination of this information.

Surveyor's Report

Located in Section 29, Township 27 North, Range 11 East, in Rock Creek Township, in Wells County.

The purpose of this survey is to collect data for the preparation of construction and right of way plans. This is not a property retracement survey. Any apparent property, subdivision, or easement lines or corners are based on the last deeds of record obtained from the County Recorder's Office. These lines in no way represent property, subdivision, or easement lines that could be determined from a retracement property survey. They are preliminary and should not be used to represent a retracement property survey. No monuments were set to represent the same. In addition, any monuments depicted on this plat indicated as being found or set should be used only for the above stated purpose.

Field measurements for this survey were in accordance with the specifications outlined in IAC 865 1-14. Measurements are shown to the nearest 0.01 feet, coordinates to the nearest 0.0001 feet, and the bearings to the 0.001 seconds, not to indicate the precision of the work, but to allow for closure and adjustment by others if desired. Units are US Survey Feet unless otherwise noted.

Horizontal Control

The horizontal control for this project is based on the Indiana Geospatial Coordinate System (InGCS), Wells Zone, North American Datum of 1983,(2011) EPOCH 2010.0, US Survey Feet. Said system was ascertained by Real Time Kinematic (RTK) GPS observations from Trimble's VRS NOW Continually Operating Reference System (www.vrsnow.us). This system will govern the project for design, right of way computations and layout. Geometric datum and map projection parameters for this InGCS Zone are as follows:

Coordinate System : Indiana Geospatial Coordinate System
Zone : Wells
Datum : NAD 83 (2011) EPOCH 2010.0
Ellipsoid Name : GRS 80
Geoid Model : Geoid12B

Zone Parameters
Latitude of Grid Origin : 40°33'00"N
Longitude of Central Meridian : 85°15'00"W
Central Meridian S.F. : 1.000034
False northing offset : 118110
False easting offset : 787400

The Trimble VRS NOW's RTK Systems continuously operating reference stations (CORS) were used to measure dual RTK vectors on all control points and section corners. These dual vectors were compared and adjusted using Trimble Business Center software.

Reference Monumentation:

Control Points - See references and Point Data Table - Estimated relative positional accuracy of these points due to random errors in the measurement or staking of these monuments is +/- 0.10 feet.

Section Corners - See Section Corner Detail and References - Estimated relative positional accuracy of these points due to random errors in the measurement of these monuments is +/- 0.10 feet.

The following corners were found per information found in the Office of the County Surveyor. Lacking obvious evidence to the contrary, these monuments were held as prima facie evidence of the respective corners with negligible uncertainty.

- 2 - Southwest Corner of Section 29, T27N, R11E - #2 Rebar Fnd. 0.4' B.G.
- 4 - South 1/4 Corner of Section 29, T27N, R11E - #5 Rebar Fnd. 0.2' A.G.
- 5 - East 1/4 Corner of Section 29, T27N, R11E - #5 Rebar Fnd. 0.5' B.G.
- 6 - Southeast Corner of Section 29, T27N, R11E - Railroad Spike Fnd. 0.1' B.G.
- 8 - Northwest Corner of Section 29, T27N, R11E - Railroad spike Fnd. Flush
- 9 - Northeast Corner of Section 29, T27N, R11E - Railroad spike Fnd. Flush

The location of the following corner was calculated based on information provided to USI Consultants by the Wells County Surveyor:
9998 - West 1/4 Corner of Section 29, T27N, R11E.

The following corners were found and held as noted in relation to Reference surveys 1 and 3:

- 51 - #5 Rebar Fnd. with "Stoody" Cap - held.
- 50 - #5 Rebar Fnd. with "Stoody Cap" - held for line.

The following corners were found and held as noted in relation to reference survey 2. Points not noted as being held were in keeping with the layout of the survey:

- 52 - #5 Rebar Fnd. with "Stoody" Cap - held.
- 53 - #5 Rebar Fnd. with "Stoody" Cap.
- 54 - #5 Rebar Fnd. with "Stoody" Cap - held.
- 55 - #5 Rebar Fnd. with "Stoody" Cap.
- 56 - #5 Rebar Fnd. with "Stoody" Cap.

The bearing for the center of section 29, T27N, R11E as it heads North from point #4 was calculated based on fitting the deed description of the Wilson Parcel with the deed description of the Gates parcel. The resulting approximate section line fits well with found monumentation and evidence provided by the County Surveyor.

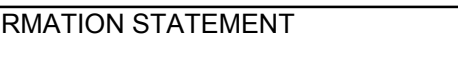
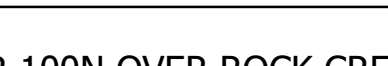
Alignments:

No reference plans were found. Alignment "A" placed based on bridge and pavement splits taken on tangents throughout the project.

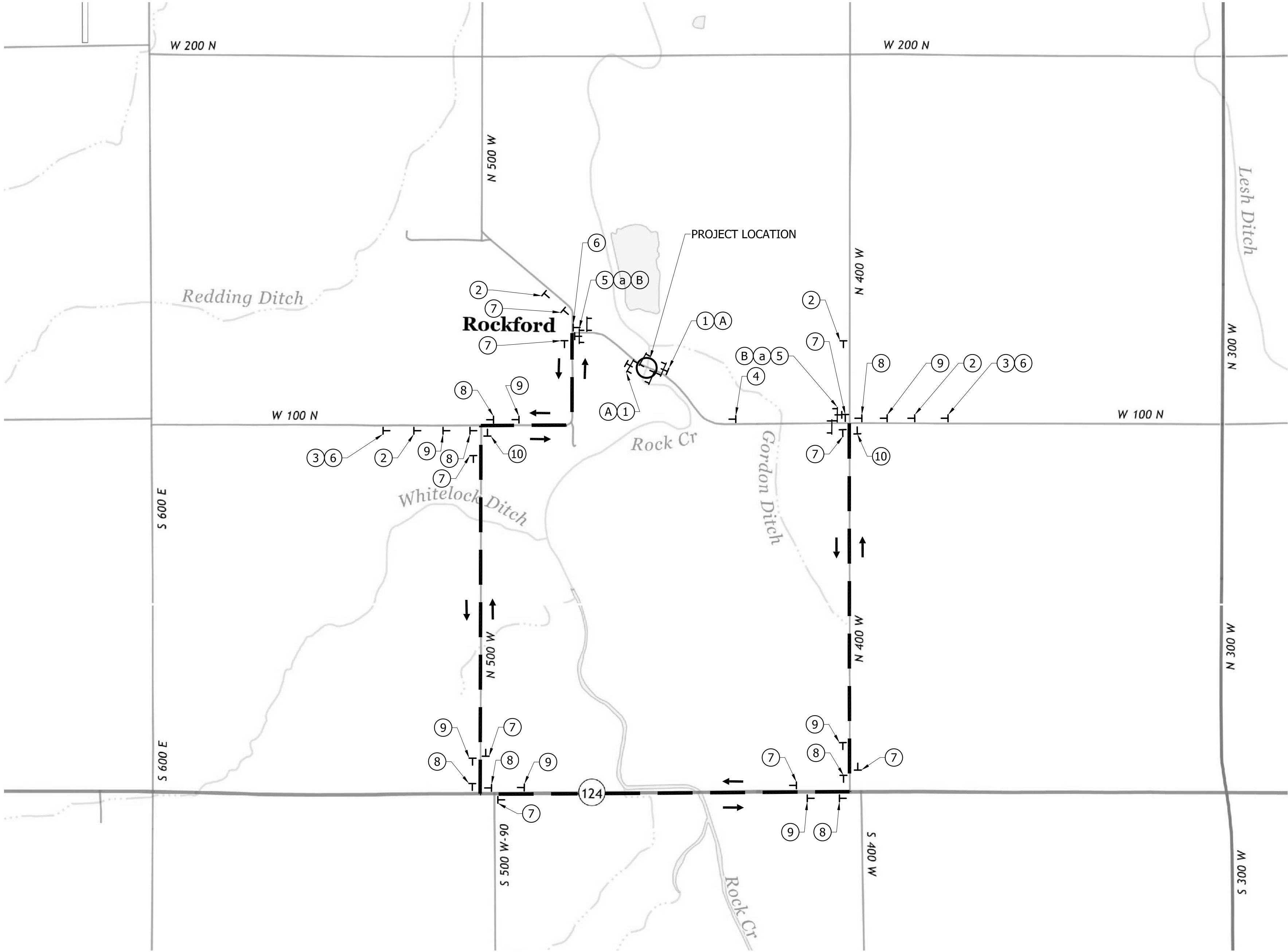
Reference Surveys:

- 1) "Plat of Rockford" Dated September 17, 1849, and recorded in the Wells County Recorder's Office in Plat Book D, Page 170.
- 2) "Plat of Survey #6944" by Joseph B. Stoody, Dated August 31, 1993, and provided to this office by Stoody Associates.
- 3) "Plat of Survey #8739" by Joseph B. Stoody, Dated October 19, 1995, and provided to this office by Stoody Associates.

USI #2018-100

SURVEY STARTED			20190675 MISC \$30.00 03/08/2019 11:43:23A 2 PGS Carolyn C Bertsch Wells County Recorder IN Recorded as Presented 	SURVEYOR STATEMENT				AFFIRMATION STATEMENT			 8415 East 56th St. Indianapolis, IN 46216 PH. 317.544.4996 FAX 317.544.4997	CR 100N OVER ROCK CREEK WELLS COUNTY BRIDGE #106			HORIZONTAL SCALE		BRIDGE FILE	
12/21/2018				This survey, to the best of my knowledge and belief, is executed according to the provisions of Title 865 IAC 1-12-20 through 1-12-26 regarding Route Surveys, except that any data shown regarding the location or description of the existing parcels is not a part of this survey.				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. By: Mark A. Schepers				COUNTY		DESIGNATION				
SURVEY COMPLETED												WELLS						
01/11/2019												SURVEY BOOK		PLAN SHEETS				
ROUTE PLAT SHEETS												CONTRACT		PROJECT				
2	OF	2					SIGNATURE  03/04/2019 MARK A. SCHEPERS, PS DATE			LOCATION CONTROL ROUTE SURVEY			5	OF	32			

S:\2018\proj\2018-100\delv\100\Plan\@Edge\Plan\2018-100 Route Detour.dwg, 6 Route Detour, 2/15/2021 12:56:55 PM



DETOUR ROUTE MAP
Scale: 1" = 1000'

TYPE OF SIGN	QUANTITY	PAY ITEM
ROAD CLOSURE ASSEMBLY	4 Each	801-04308
DETOUR ROUTE ASSEMBLY	25 Each	801-06625
CONSTRUCTION SIGN TYPE A	10 Each	801-06640
CONSTRUCTION SIGN TYPE B	2 Each	801-06645
BARRICADE, III-A	48 Lft.	801-07118
BARRICADE, III-B	48 Lft.	801-07119
MAINTAINING TRAFFIC	1 LSUM	801-06775

LEGEND	DESCRIPTION		SIZE	TYPE	NO.
①		R11-2	48" X 30"	Road Closure Assembly	2*
②		XW20-2	48" X 48"	A	4
③		XW20-3	48" X 48"	A	2
④		XW20-3 (1500')	48" X 48"	A	1
⑤		R11-4	60" X 30"	Road Closure Assembly	2*
a		XM4-10 (L or R)	48" X 18"	B	2*
⑥		XW20-6	60" X 30"	A	3
⑦		XM4-8 M1-5 (W. 100 N.) M3-2 or M3-4 M6-3	30" X 15" 30" X 15" 30" X 15" 21" X 15"	Detour Route Assembly	9
⑧		XM4-8 M1-5 (W. 100 N.) M3-2 or M3-4 M6-1 (L or R)	30" X 15" 30" X 15" 30" X 15" 21" X 15"	Detour Route Assembly	7
⑨		XM4-8 M1-5 (W. 100 N.) M3-2 or M3-4 M5-1 (L or R)	30" X 15" 30" X 15" 30" X 15" 21" X 15"	Detour Route Assembly	7
⑩		XM4-6 XM4-8 M1-5 (W. 100 N.) M5-1 (L or R)	30" X 15" 30" X 15" 30" X 15" 21" X 15"	Detour Route Assembly	2
A	TYPE III-A BARRICADE		12'		48
B	TYPE III-B BARRICADE		12'		48

2-XW20-6 Signs to be placed at site a minimum of 10 business days prior to Road Closure.

* Cost of Sign to be included in the cost of "Road Closure Sign Assembly"

LEGEND

--- Detour Route
⊥ Construction Sign

→ Indicates Traffic Flow
Type III Barricade

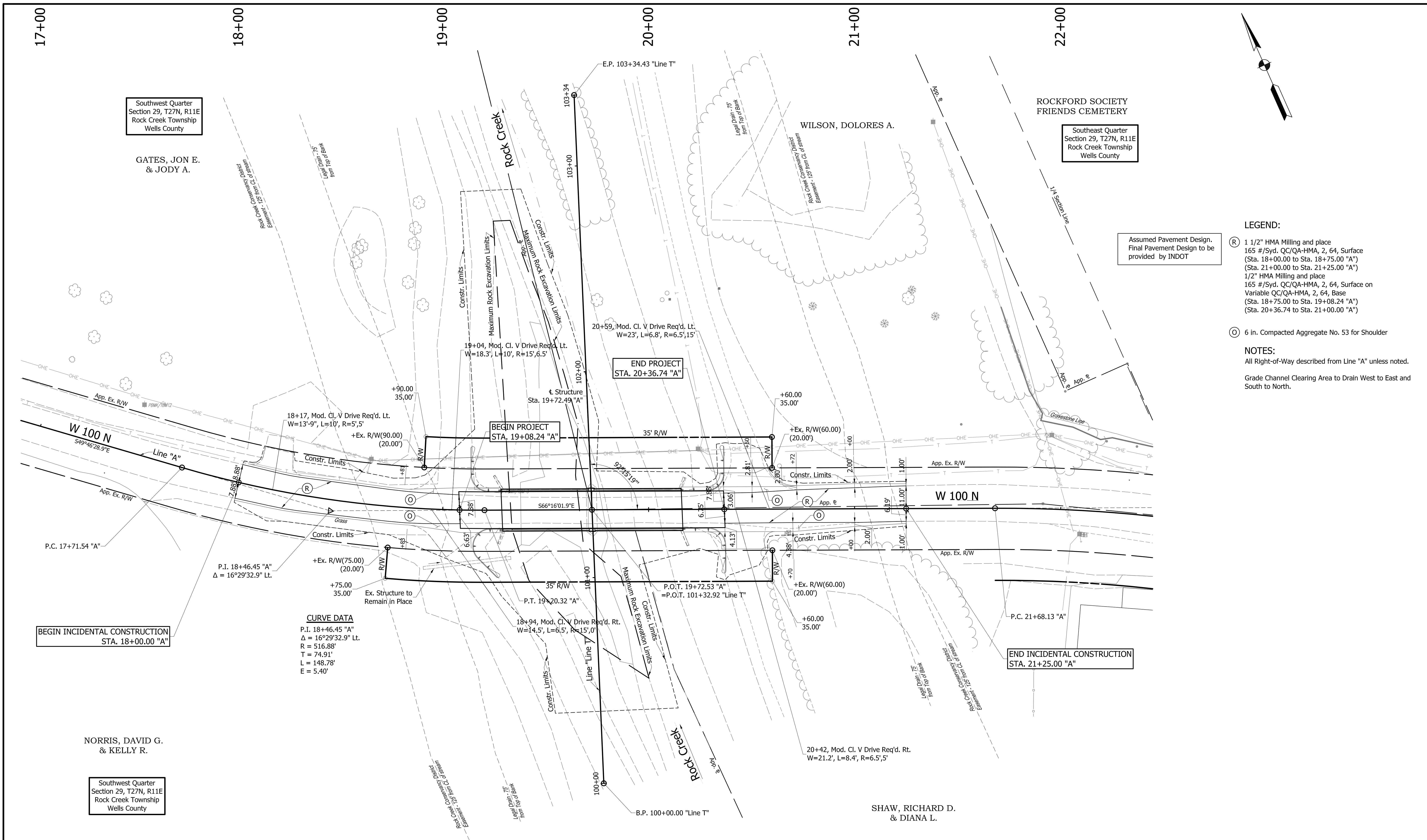
NOT FOR
CONSTRUCTION

DESIGNED: _____ JMH	DRAWN: _____ BDC
CHECKED: _____ MJH	CHECKED: _____ JMH

INDIANA
DEPARTMENT OF TRANSPORTATION

ROUTE DETOUR

HORIZONTAL SCALE 1" = 1000'	BRIDGE FILE 90-00106
VERTICAL SCALE 1" = 1000'	DESIGNATION 1702735
SURVEY BOOK	SHEETS
	6 of 32
CONTRACT B 41155	PROJECT 1702735



LEGEND:

- ① 1 1/2" HMA Milling and place
165 #/Syd. QC/QA-HMA, 2, 64, Surface
(Sta. 18+00.00 to Sta. 18+75.00 "A")
(Sta. 21+00.00 to Sta. 21+25.00 "A")
1/2" HMA Milling and place
165 #/Syd. QC/QA-HMA, 2, 64, Surface on
Variable QC/QA-HMA, 2, 64, Base
(Sta. 18+75.00 to Sta. 19+08.24 "A")
(Sta. 20+36.74 to Sta. 21+00.00 "A")

NOTES:

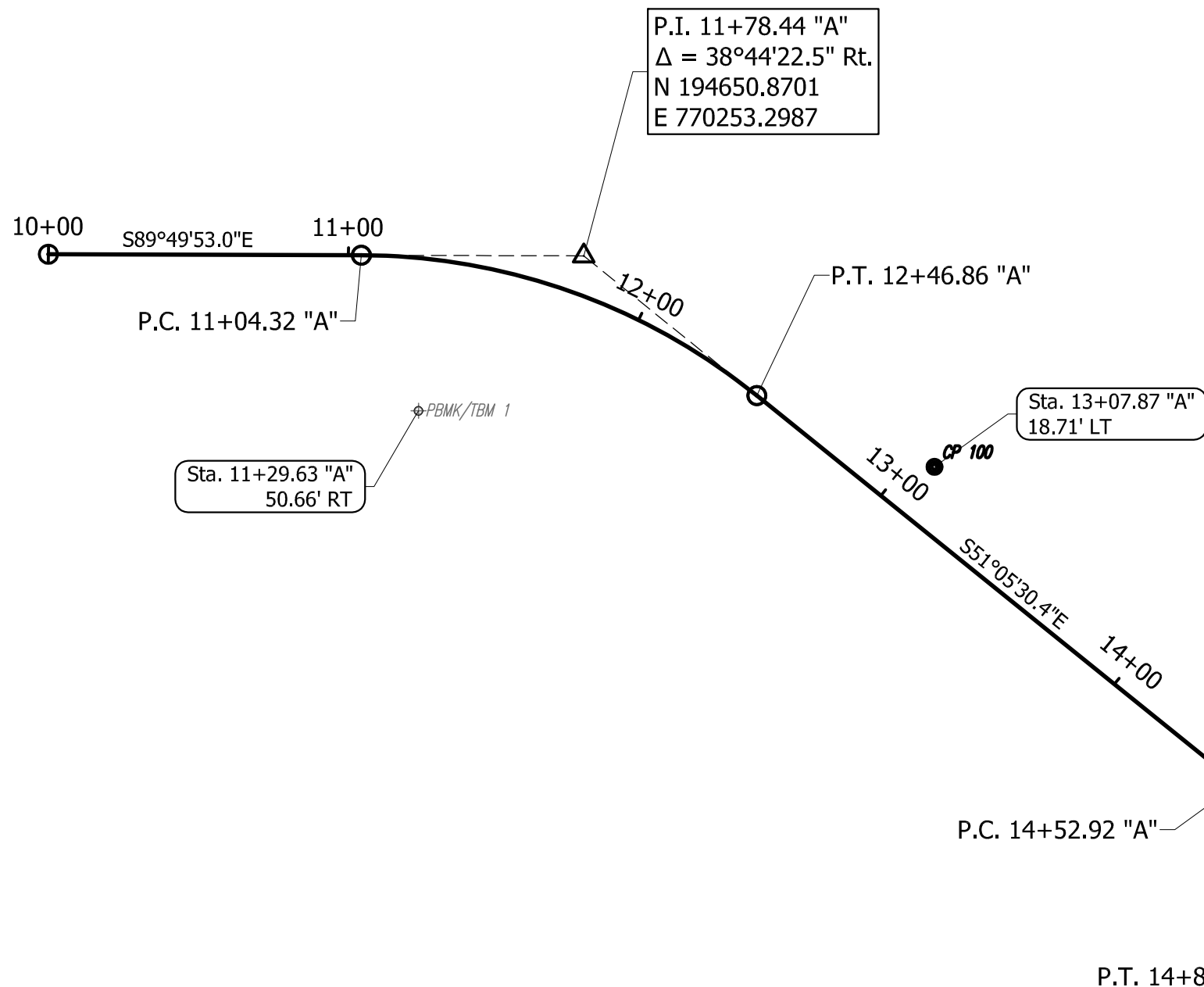
All Right-of-Way described from Line "A" unless noted.

Grade Channel Clearing Area to Drain West to East and South to North.

HORIZONTAL SCALE	BRIDGE FILE		
1" = 20'	90-00106		
VERTICAL SCALE	DESIGNATION		
1" = 20'	1702735		
SURVEY BOOK	SHEETS		
	7	of	32
CONTRACT	PROJECT		
B 41155	1702735		

CURVE DATA

P.I. 11+78.44 "A"
Δ = 38°44'22.5" Rt.
R = 210.82'
T = 74.12'
L = 142.54'
E = 12.65'



BENCHMARK INFORMATION

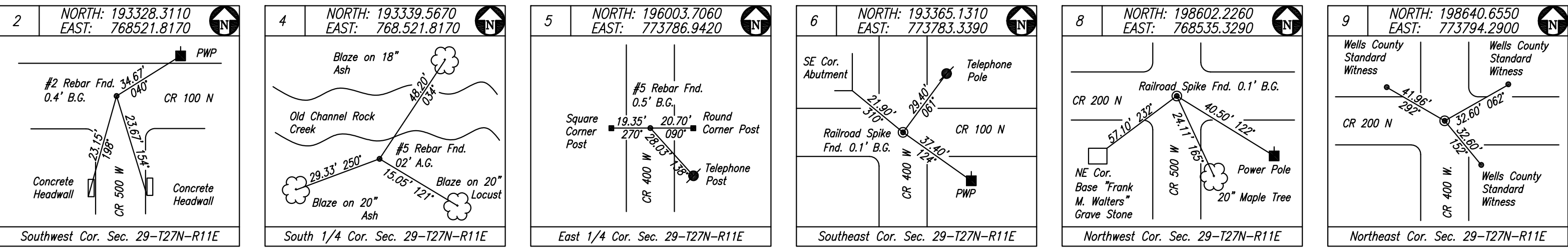
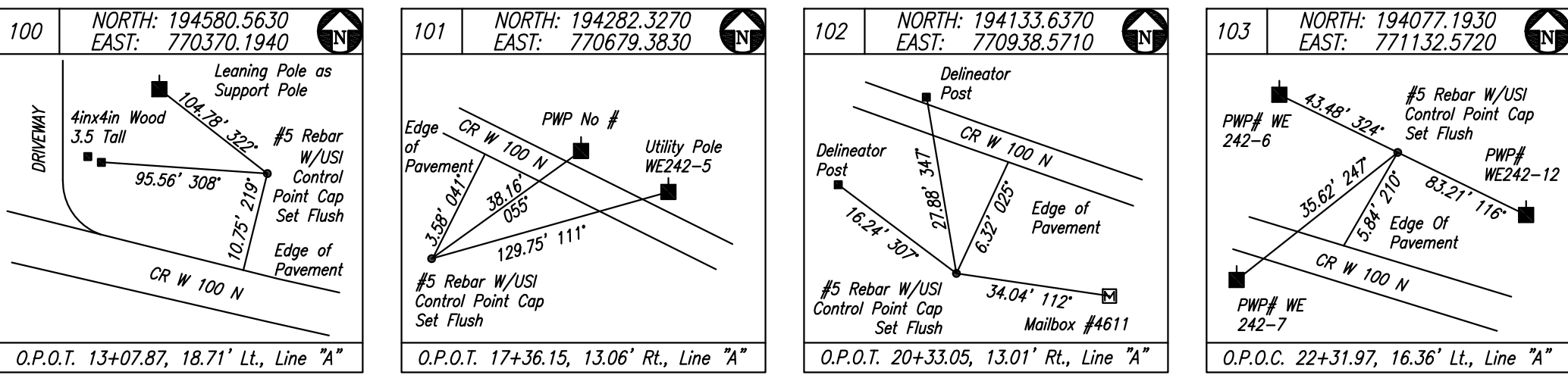
Benchmark - PUSG/P-213 1947
Located 6 miles west of Bluffton, 3 miles north of Liberty Center, on property of Mr. Platt, House #2958, S.R. 124. To reach the station form the intersection of S.R. 3 and S.R. 124, one mile west of Plum Tree, proceed 5.0 miles along S.R. 124 to c.R. 300 West, and proceed approximately 100 feet along S.R. 124 to the station on the right. The station is located in the southeast quadrant of the intersection of S.R. 124 and County Road 300 West. The station is a triangulation station disk stamped - Q 213 1947. Set in a round concrete monument projecting 0.49 feet above the ground. The station is 95.1 feet east of the centerline of C.R. 300 West, 40 feet South of the centerline of S.R. 124, and 41.3 feet northeast of White Wells County witness post.
N: 188123.429, E: 773819.334
Elev.: 834.660

TBM #1 - RR Spike 1' up north side PWP #WE242-54, 50' south of centerline C.R. 100 NW of house #4788.
N: 194599.2, E: 770198.2
Elev.: 823.428

TBM #2 - RR Spike 1' up south side PWP #N/A, 25' north of centerline C.R. 100 north, 200' west of centerline of creek.
N: 194394.4, E: 770710.5
Elev.: 817.747

TBM #3 - Mag Nail in northwest corner of bridge, 1' above road, 11' north of centerline of C.R. 100 North, 40' west of centerline of creek.
N: 194195.7, E: 770851.9
Elev.: 822.253

TBM #4 - RR Spike 1' ip south side of PWP #WE242-12, 25' north of centerline of C.R. 100 North in southeast corner of cemetery.
N: 194040.0, E: 771206.7
Elev.: 830.957



CURVE DATA

P.I. 18+46.45 "A"
Δ = 16°29'32.9" Lt.
R = 516.88'
T = 74.91'
L = 148.78'
E = 5.40'

CURVE DATA

P.I. 22+82.17 "A"
Δ = 18°26'54.0" Rt.
R = 702.25'
T = 114.04'
L = 226.11'
E = 9.20'

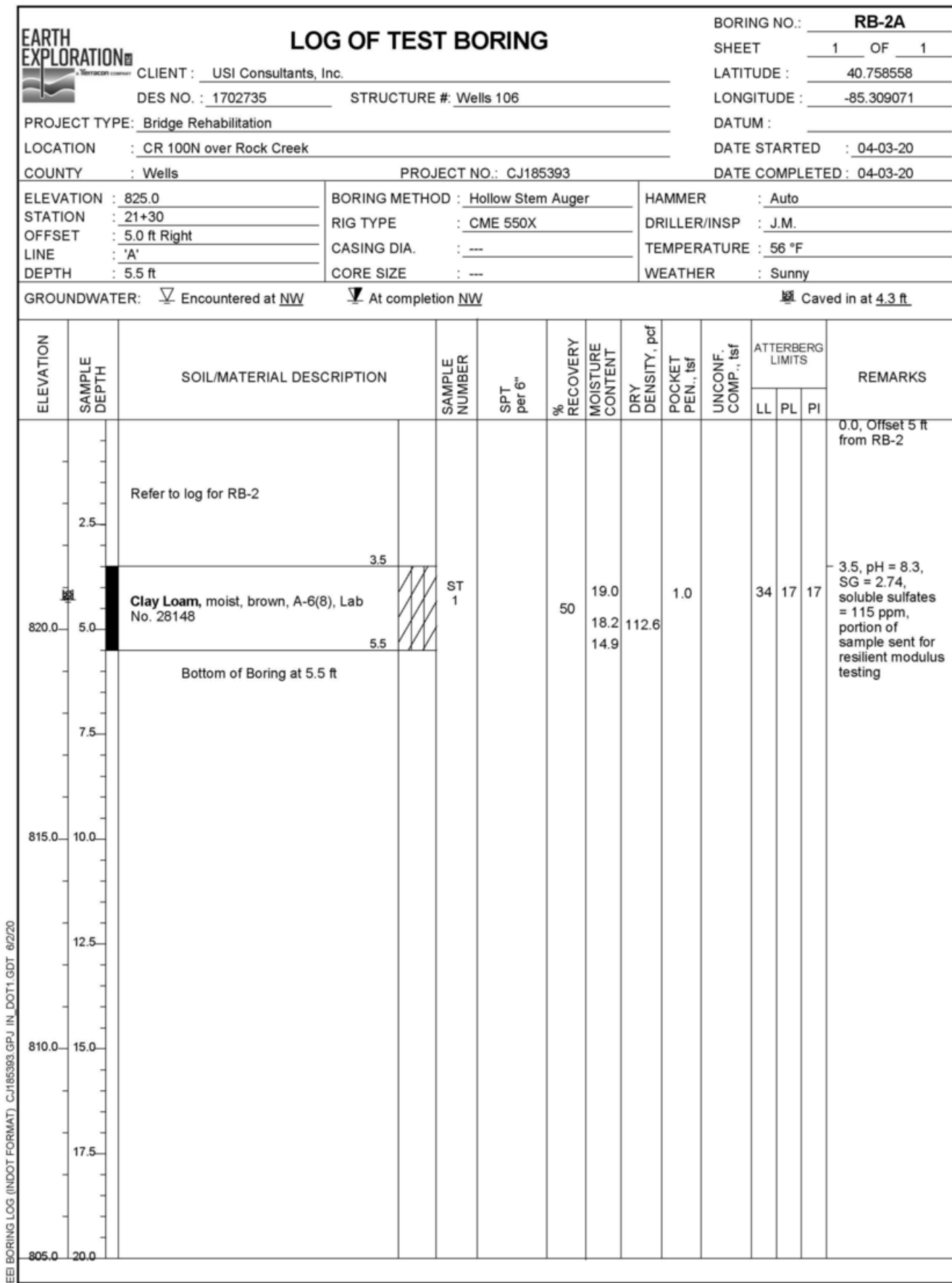
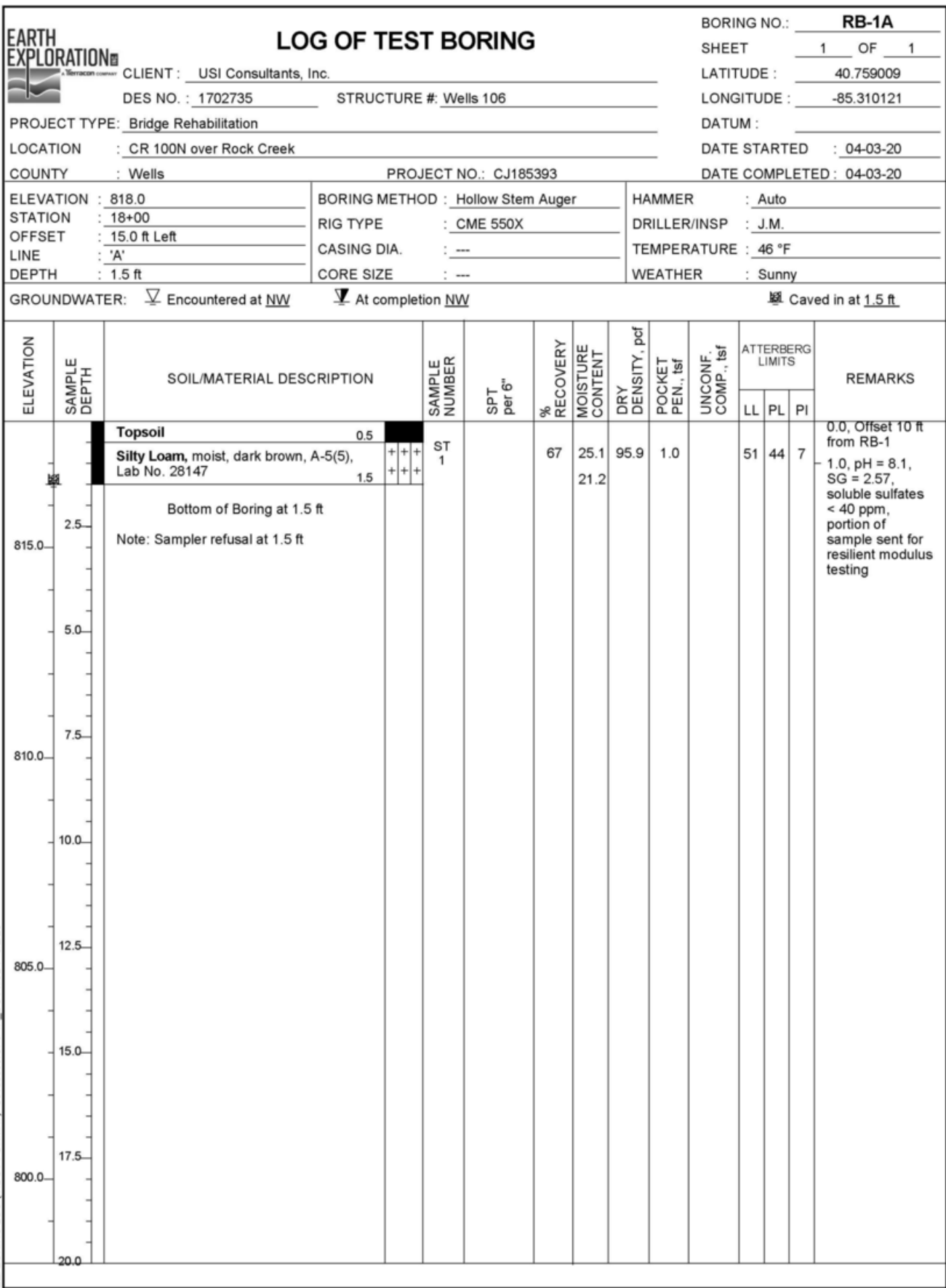
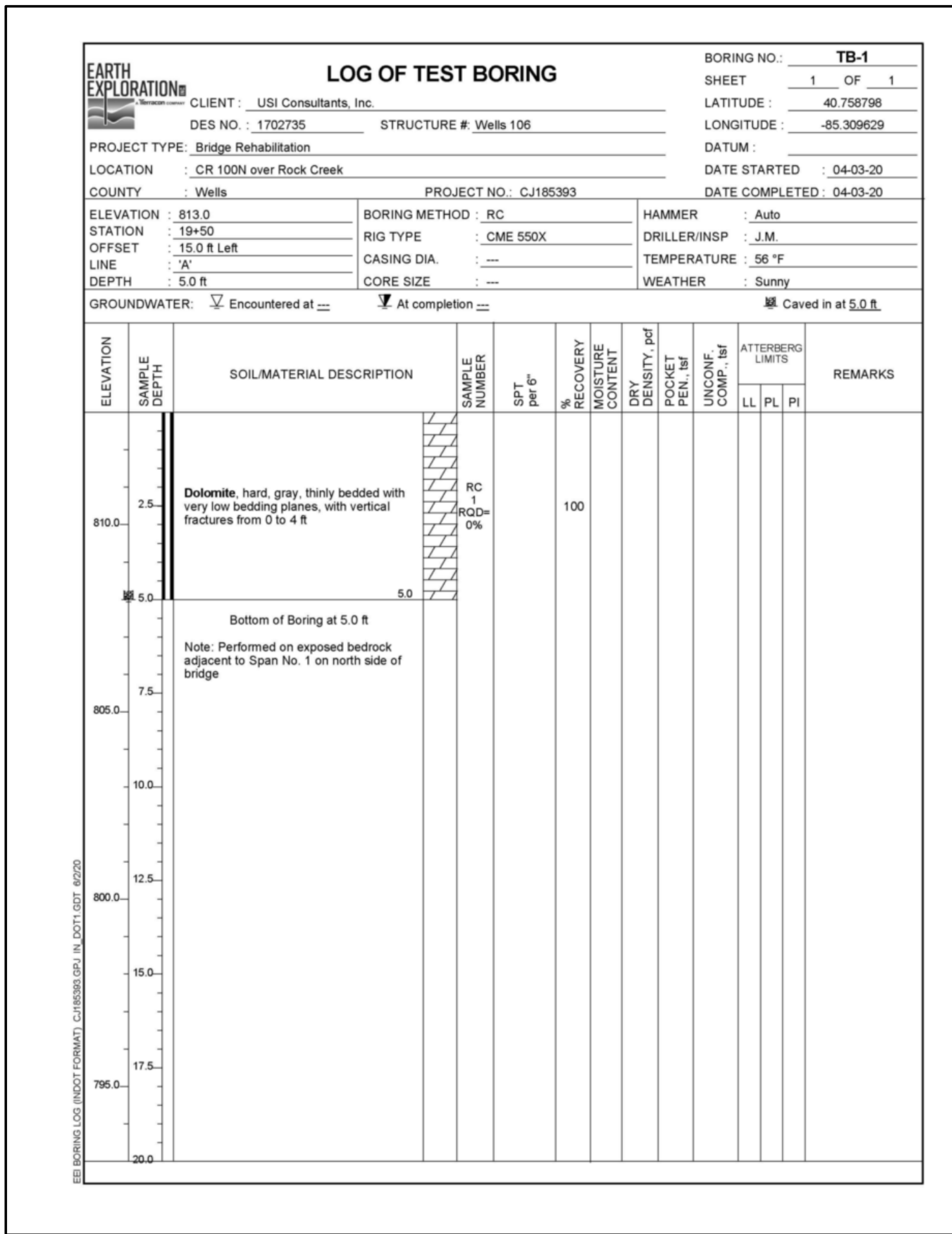
P.I. 22+82.17 "A"
Δ = 18°26'54.0" Rt.
N 194045.2839
E 771171.8638

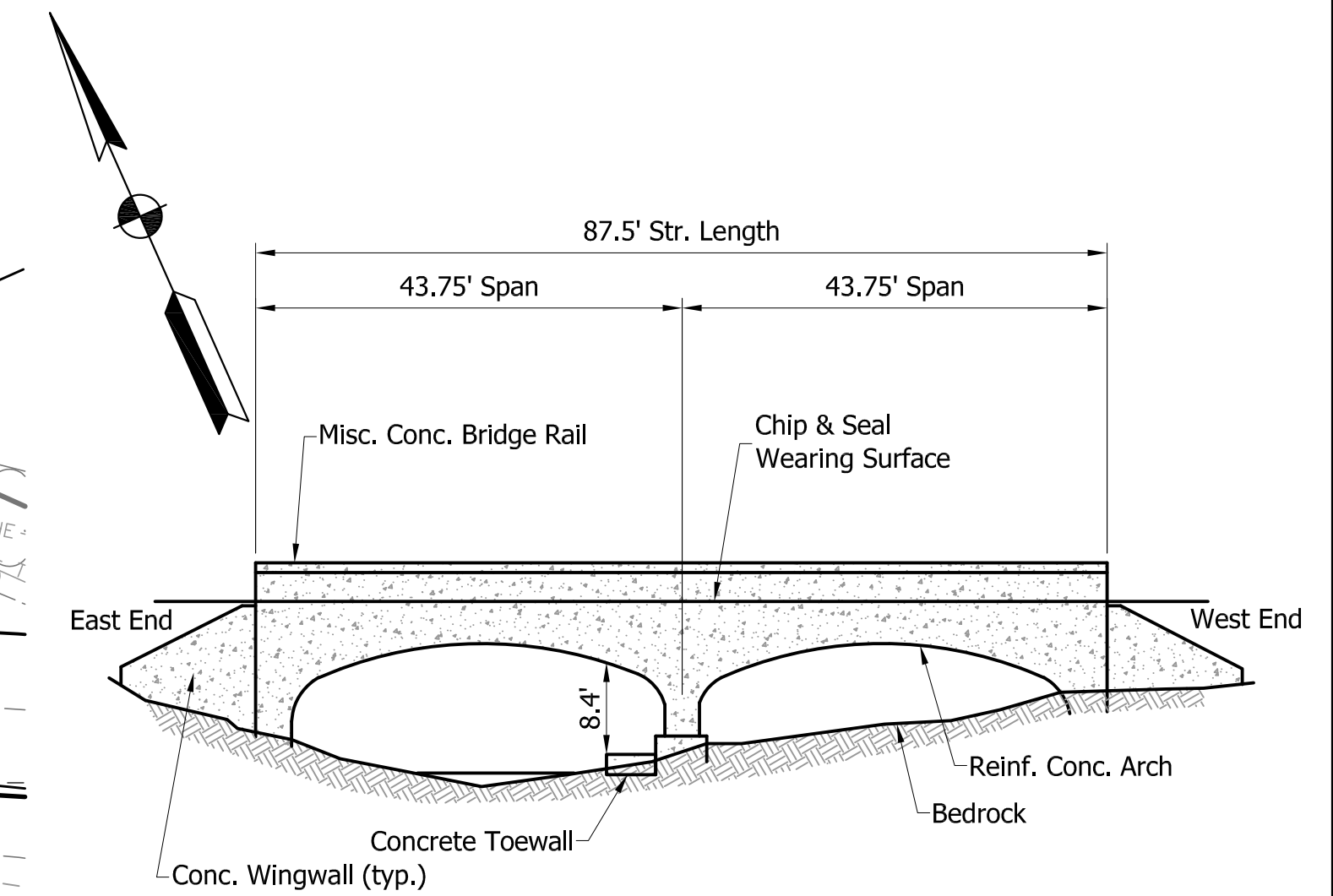
NOT FOR
CONSTRUCTION

INDIANA
DEPARTMENT OF TRANSPORTATION

ALIGNMENT CONTROL

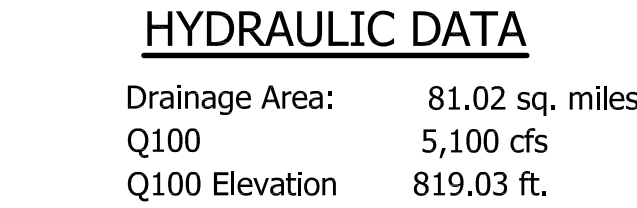
HORIZONTAL SCALE	BRIDGE FILE	
1" = 50'	90-00106	
VERTICAL SCALE	DESIGNATION	
1" = 50'	1702735	
SURVEY BOOK	SHEETS	
	8	of 32
CONTRACT	PROJECT	
B 41155	1702735	





EARTHWORK SUMMARY

Common Excavation	= XX Cys
Fill + 20%	= XX Cys
Waterway Excavation	= XX Cys
Rock Excavation	= XX Cys
Waste	= XX Cys



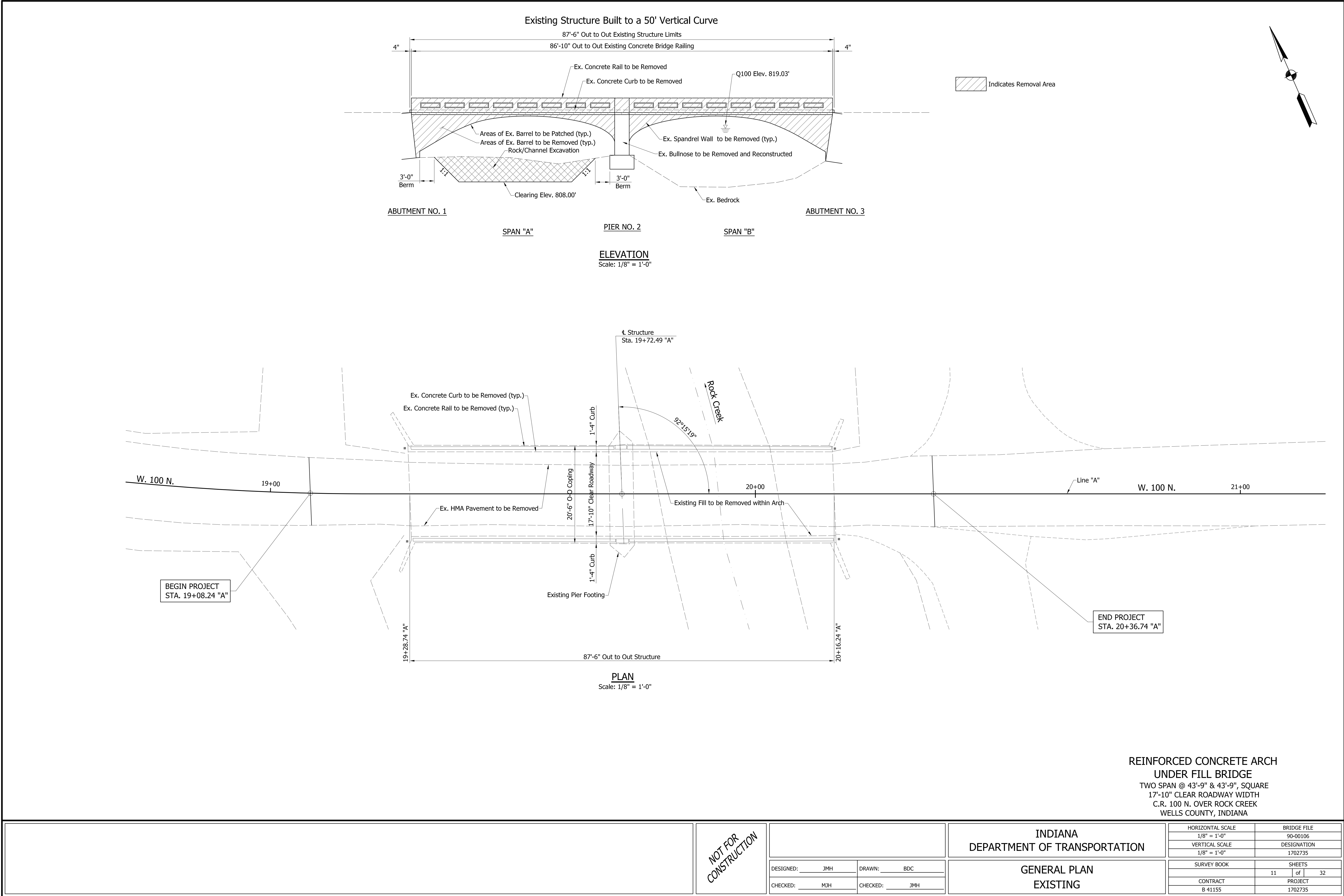
REINFORCED CONCRETE ARCH
UNDER FILL BRIDGE
TWO SPAN @ 43'-9" & 43'-9", SQUARE
17'-10" CLEAR ROADWAY WIDTH
C.R. 100 N. OVER ROCK CREEK
WELLS COUNTY, INDIANA

NOT FOR
CONSTRUCTION

LAYOUT

HORIZONTAL SCALE	BRIDGE FILE		
1" = 20'	90-00106		
VERTICAL SCALE	DESIGNATION		
1" = 5'	1702735		

SURVEY BOOK	SHEETS		
	10	of	32
CONTRACT	PROJECT		
B 41155	1702735		



REINFORCED CONCRETE ARCH
UNDER FILL BRIDGE
TWO SPAN @ 43'-9" & 43'-9", SQUARE
17'-10" CLEAR ROADWAY WIDTH
C.R. 100 N. OVER ROCK CREEK
WELLS COUNTY, INDIANA

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
EXISTING

HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 90-00106	
VERTICAL SCALE 1/8" = 1'-0"	DESIGNATION 1702735	
SURVEY BOOK	SHEETS	
CONTRACT B 41155	11	of 32
	PROJECT 1702735	

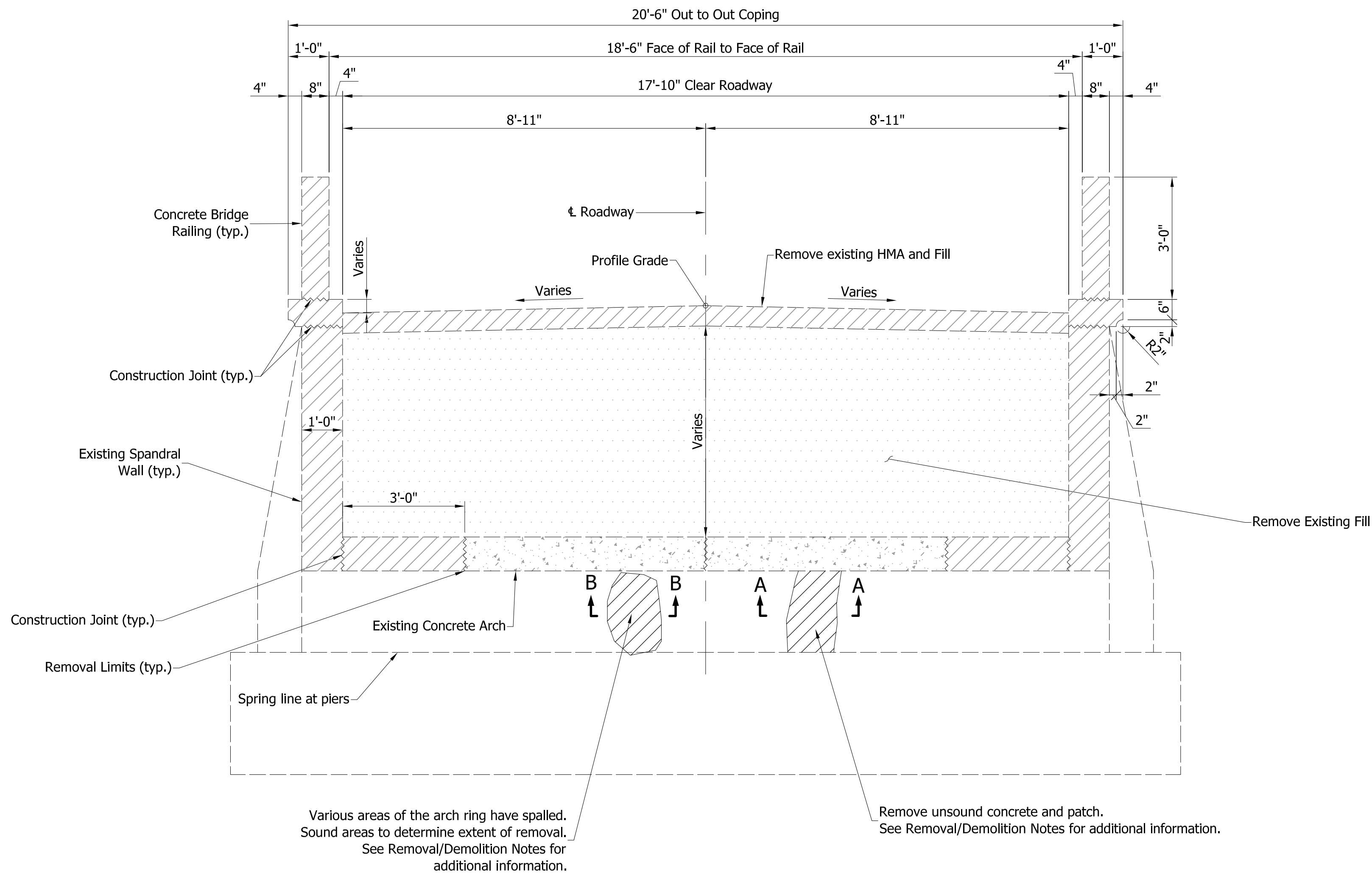
NOT FOR
CONSTRUCTION

DESIGNED: JMH	DRAWN: BDC
CHECKED: MJH	CHECKED: JMH

REMOVAL/DEMOLITION NOTES:

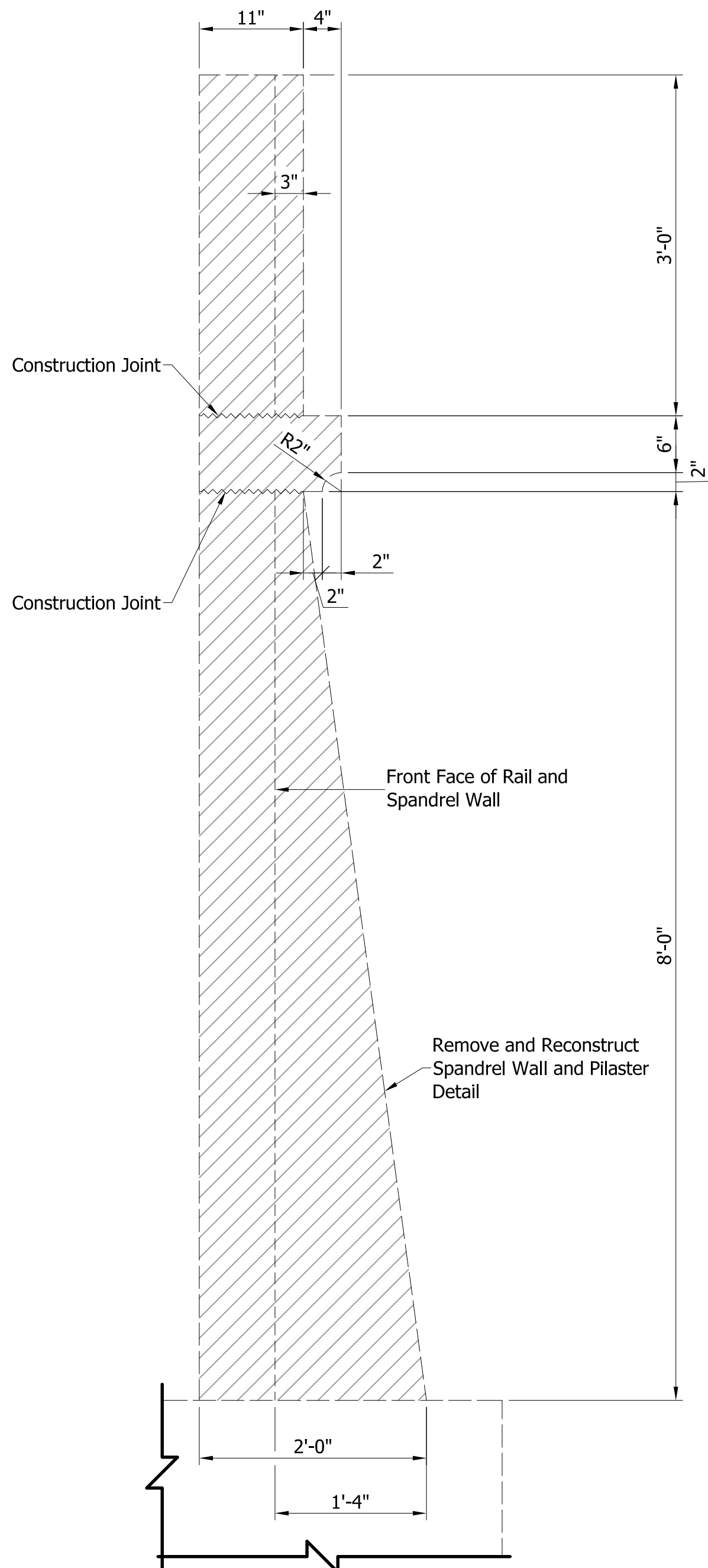
Estimated area of Deteriorated Concrete:
Arch: Estimated Area = xxx sft.
Spandrel Walls: Estimated Area = xx sft.
Pilaster/Pier: Estimated Area = xx sft.

Hatched area indicates removal areas.

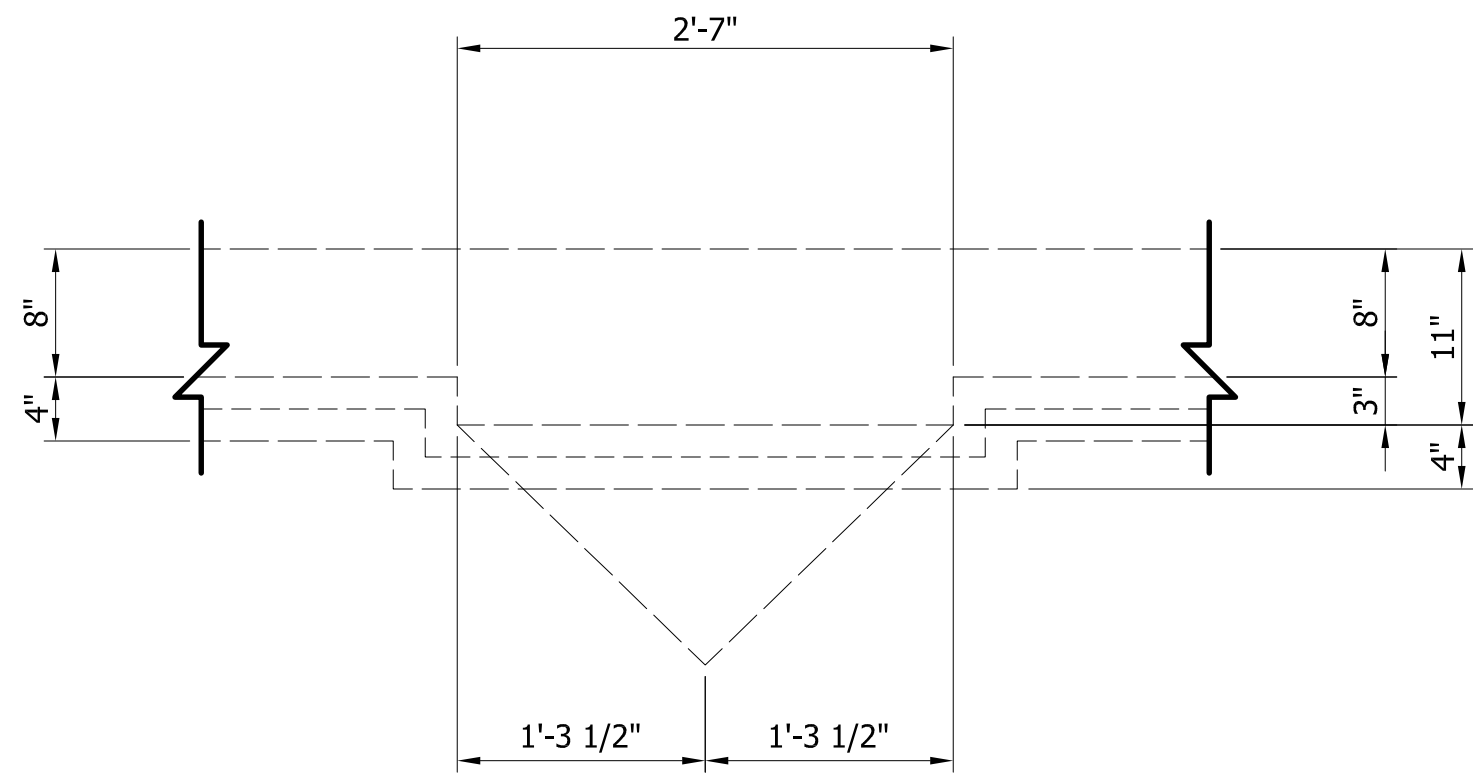


TYPICAL SECTION - EXISTING - LOOKING UP STATION

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



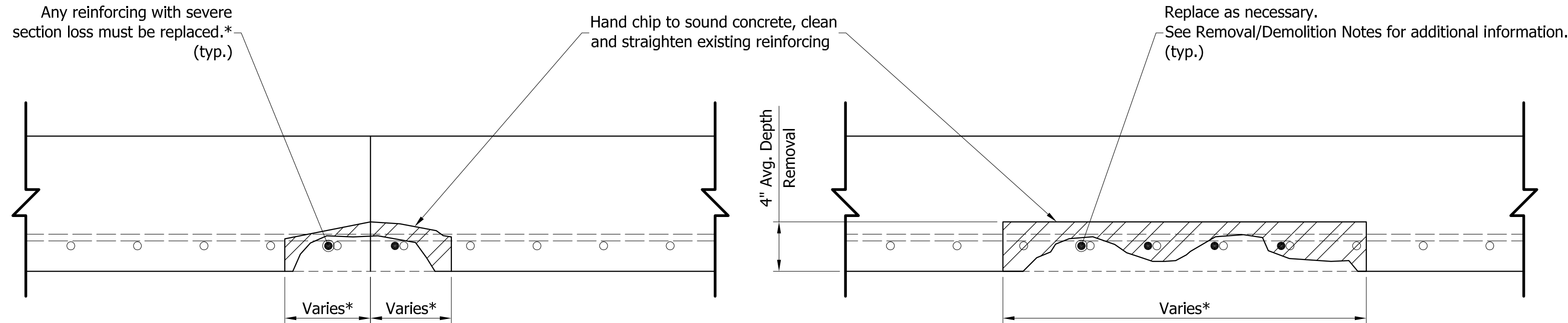
SIDE VIEW



TOP VIEW

EXISTING PILASTER DETAIL

Scale: 1" = 1'-0"



SECTION A-A

Scale: N.T.S.

SECTION B-B

Scale: N.T.S.

* Sound existing concrete w/hand held chipping hammer to determine removal limits. After removal, resound area.

REINFORCED CONCRETE ARCH
UNDER FILL BRIDGE
TWO SPAN @ 43'-9" & 43'-9", SQUARE
17'-10" CLEAR ROADWAY WIDTH
C.R. 100 N. OVER ROCK CREEK
WELLS COUNTY, INDIANA

NOT FOR
CONSTRUCTION

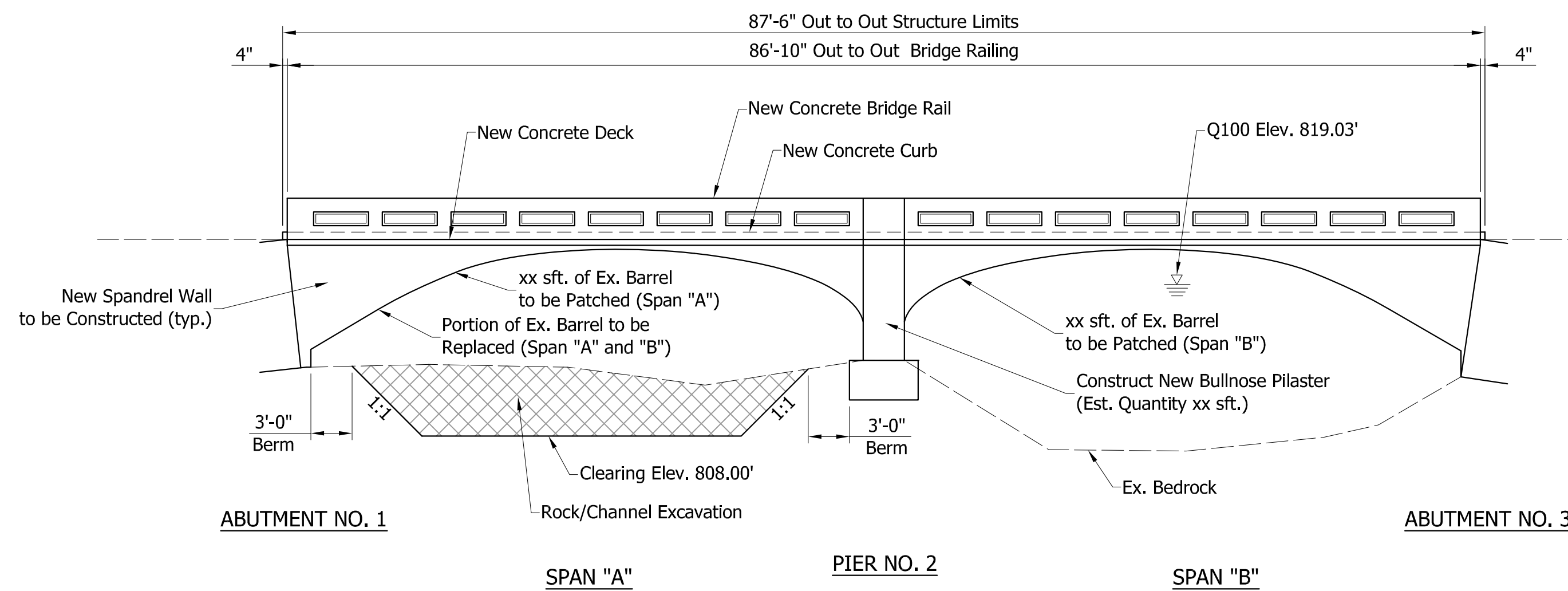
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
EXISTING

HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 90-00106		
VERTICAL SCALE 1/8" = 1'-0"	DESIGNATION 1702735		
SURVEY BOOK	SHEETS		
	12	of	32
CONTRACT B 41155	PROJECT 1702735		

- (R) 1 1/2" HMA Milling and place
165 #/Syd. QC/QA-HMA, 2, 64, Surface
(Sta. 18+00.00 to Sta. 18+75.00 "A")
(Sta. 21+00.00 to Sta. 21+25.00 "A")
1/2" HMA Milling and place
165 #/Syd. QC/QA-HMA, 2, 64, Surface on
Variable QC/QA-HMA, 2, 64, Base
(Sta. 18+75.00 to Sta. 19+08.24 "A")
(Sta. 20+36.74 to Sta. 21+00.00 "A")
- (O) 6 in. Compacted Aggregate No. 53 for Shoulder
- (1) 1-Thrie Beam Terminal Connector, 1-Symmetric W-Beam
to Thrie Beam Transition Section, 1-Curved W-Beam
Guardrail Terminal System, Type 3
- (2) 1-Thrie Beam Terminal Connector, 1-Symmetric W-Beam
to Thrie Beam Transition Section, 1- Curved W-Beam
Guardrail Terminal System, Type 2

New Structure Built to a 50' Vertical Curve



The plan view shows a bridge structure with a central deck and two approaches. The deck is labeled "New 10" Concrete Bridge Deck" and has a width of "20'-6" O-O Coping". The approaches are labeled "20'-6" R.C. Bridge Approach". The bridge is situated over "Rock Creek". Surrounding features include "Mod. Class V Field Entrance" on both sides, "W. 100 N." road, and "Mod. Class V Drive". Stationing is marked along the road, including "19+00", "19+08.24 'A'", "19+28.74 'A'", "20+00", "20+16.24 'A'", and "20+36.74 'A'". A note indicates "Limits of Rock/Channel Excavation (See Construction Details and Cross Sections for more information)". A scale of "1/8" = 1'-0"" is provided.

No existing plans are available with Wells County.

Reinforcing steel covering shall be 2 1/2" in top and 1" min. bottom in floor slab and approach slabs and 2" in all other parts, unless noted.

Surface Seal exposed surfaces of spandrel walls, face of coping, bridge deck, all faces of concrete barrier railing curbs, and approach slabs.

Estimated Quantity = xxx sft.

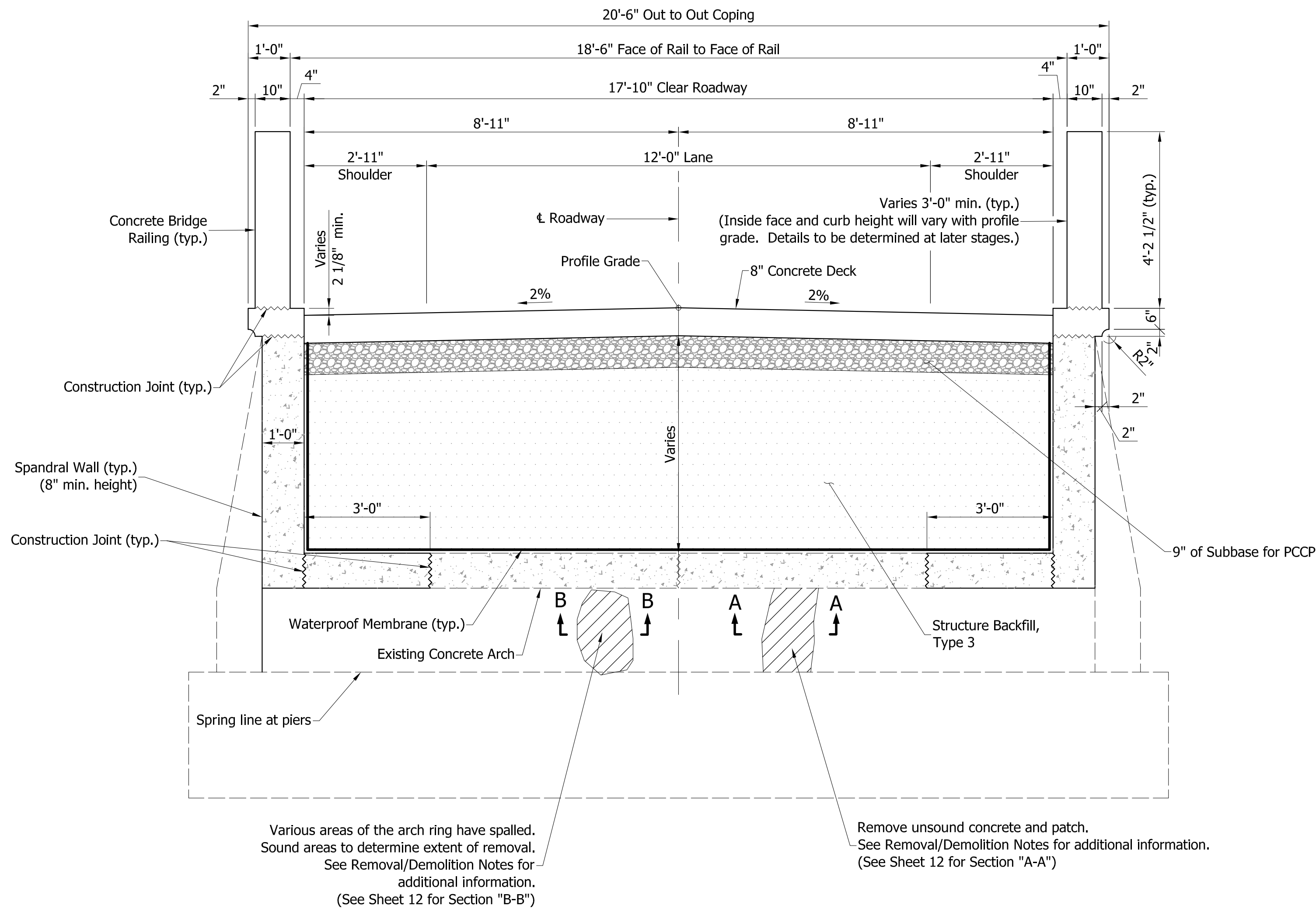
UNIT STRESSES:
 Class "C" Concrete $F'_c = 4000$ p.s.i.
 Class "A" Concrete $F'_c = 3500$ p.s.i.
 Class "B" Concrete $F'_c = 3000$ p.s.i.
 Reinforcing Steel (Grade 60) $F_y = 60,000$ p.s.i.

**REINFORCED CONCRETE ARCH
UNDER FILL BRIDGE**
TWO SPAN @ 43'-9" & 43'-9", SQUARE
17'-10" CLEAR ROADWAY WIDTH
C.R. 100 N. OVER ROCK CREEK
WELLS COUNTY, INDIANA

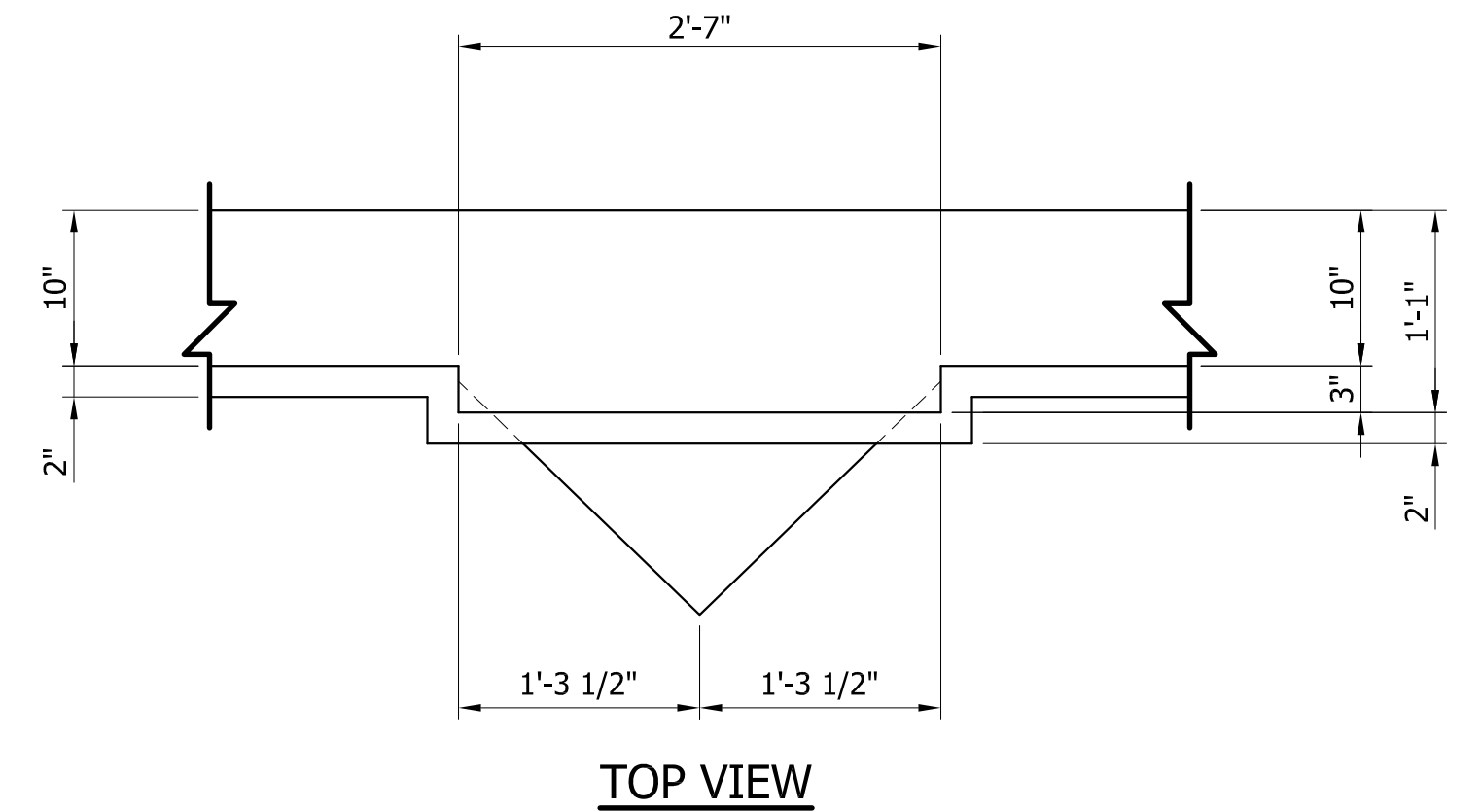
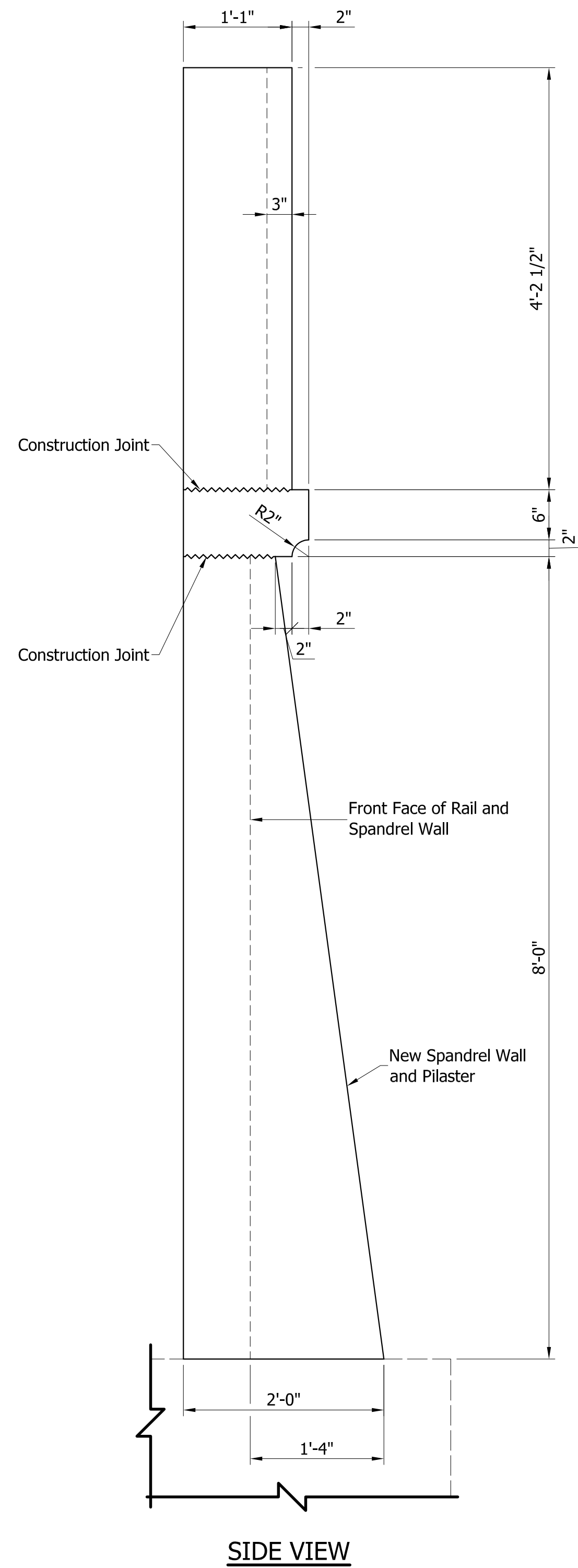
		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE					
				1/8" = 1'-0"		90-00106					
				VERTICAL SCALE		DESIGNATION					
				1/8" = 1'-0"		1702735					
DESIGNED: _____ JM H		DRAWN: _____ BDC		GENERAL PLAN PROPOSED		SURVEY BOOK		SHEETS			
						13		of		32	
CHECKED: _____ MJ H		CHECKED: _____ JM H				CONTRACT		PROJECT			
						B 41155		1702735			

NOT FOR
CONSTRUCTION

S:\2018proj\2018-100 Wells-100P\Plan\Bridge Plans\2018-100 General Plan Proposed.dwg, 14 General Plan Proposed.dwg, 2/15/2021, 1:00:04 PM



TYPICAL SECTION - PROPOSED - LOOKING UP STATION
Scale: 1/2" = 1'-0"



PROPOSED PILASTER DETAIL
Scale: 1" = 1'-0"

**REINFORCED CONCRETE ARCH
UNDER FILL BRIDGE**
TWO SPAN @ 43'-9" & 43'-9", SQUARE
17'-10" CLEAR ROADWAY WIDTH
C.R. 100 N. OVER ROCK CREEK
WELLS COUNTY, INDIANA

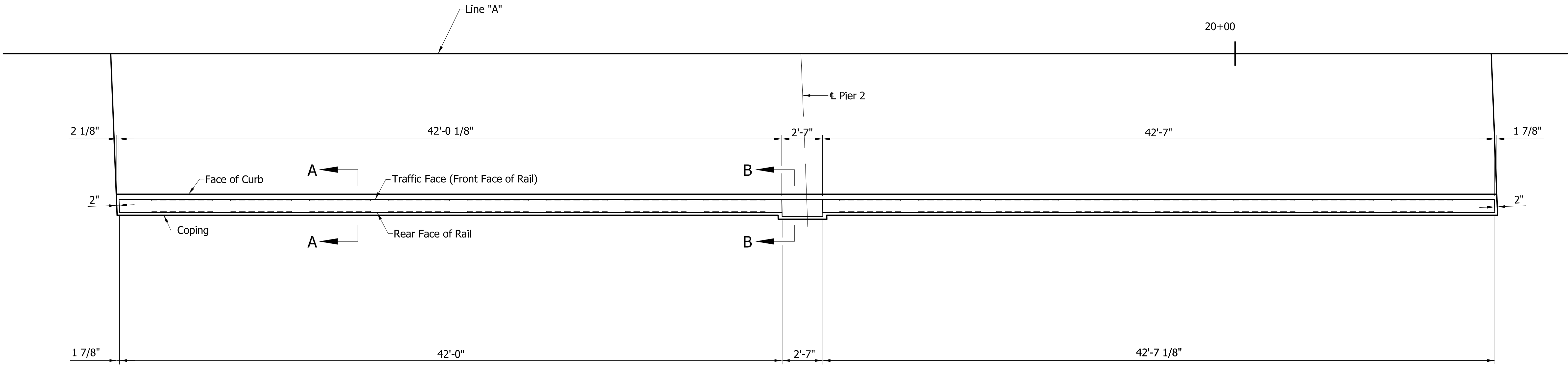
NOT FOR
CONSTRUCTION

DESIGNED: JMH
DRAWN: BDC
CHECKED: MJH
CHECKED: JMH

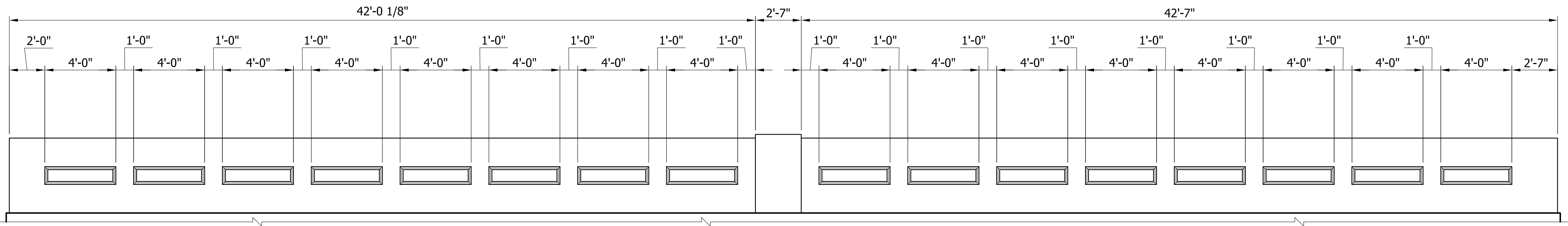
INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
PROPOSED

HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 90-00106
VERTICAL SCALE 1/8" = 1'-0"	DESIGNATION 1702735
SURVEY BOOK	SHEETS
CONTRACT B 41155	14 of 32 PROJECT 1702735



SOUTH BRIDGE RAIL PLAN
Scale: 1/4" = 1'-0"



**SOUTH BRIDGE RAIL ELEVATION
(FRONT FACE)**
Scale: 1/4" = 1'-0"

- NOTES:**
1. For Section A-A, Section B-B Section C-C, and additional details see sheet 15.
 2. All dimensions to be field verified.
 3. All Reinforcing to be Epoxy Coated.

S:\2018proj\2018-100 Wells-100P\Rail\Bridge Plans\2018-100 Railing Details.dwg, Railing Detail 02, 2/15/2023, 12:45:58 PM

NOT FOR
CONSTRUCTION

DESIGNED: _____ JMH
DRAWN: _____ BDC
CHECKED: _____ MJH
CHECKED: _____ JMH

INDIANA
DEPARTMENT OF TRANSPORTATION

RAILING DETAILS

HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE 90-00106		
VERTICAL SCALE 1/4" = 1'-0"	DESIGNATION 1702735		
SURVEY BOOK	SHEETS		
	16	of	32
CONTRACT B 41155	PROJECT 1702735		

SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE			CONCRETE RAILING CLASS C	REINF. STEEL	EPOXY COATED REINF. STEEL	SURFACE SEAL **	STRUCTURE BACKFILL TYPE, 3	SUBBASE FOR PCCP	R.C. BRIDGE APPROACH (10")	PRE-COMPRESSED FOAM JOINT	WATER PROOFING MEMBRANE SYSTEM	GEOTEXTILES FOR SUBGRADE, TYPE 2B	FIELD DRILLED HOLES IN CONCRETE	PATCHING CONCRETE STRUCTURES	PNEUMATICALLY PLACED MORTAR	WELDED WIRE FABRIC	EMBEDDED GALVANIC ANODE	EXCAVATION, COMMON	
	CLASS C	CLASS A	CLASS B																	
	SUPERSTR	SUBSTR	IN FTG.																	
	cys.	cys.	cys.	cys.	lft.	lbs.	lbs.	sft.	cys.	cys.	sys.	lft.	sft.	each	sft.	sft.	sft.	each	cys.	
SUPERSTRUCTURE	x			x			x	x			x	x	sys.	x		x	x		x	
SUBSTRUCTURE							x	x							x	x	x	x		
WEST APPROACH SLAB							x	x		x			x							
EAST APPROACH SLAB							x	x		x			x							
TOTALS	x			x			x	x	x	x	x	x	x	x	x	x	x	x	x	

** ESTIMATED QUANTITY

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADI	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE	EXCAVATION		CLEAR ZONE AT DRIVE	HMA FOR APPROACHES TYPE "A"						QC/QA-HMA, 2, 64						HMA SURFACE 9.5 mm, SHLDR.		HMA BASE 25.0 mm, SHLDR.		BITUMINOUS MATERIAL FOR		COMPACTED AGGREGATE NO. 53 FOR SHOULDER		COMPACTED AGGREGATE FOR SURFACE NO. 73		SUBGRADE TREATMENT TYPE xxx	SUBGRADE TREATMENT TYPE xxx	JOINT ADHESIVE, SURFACE	JOINT ADHESIVE, INTERMEDIATE	JOINT SEALANT																				
						PRIME COAT	TACK COAT	DEPTH (in.)																					DEPTH (in.)																														
								6					8	tons	tons	tons	tons																																										
						ft.	ft.	ft.					ft.	tons	tons	sft.	1	2	CUT	FILL	ft.	SURFACE 9.5 mm		INTERMD. 19.0 mm					BASE 25.0 mm		SURFACE 9.5 mm		INTERMD. 19.0 mm							BASE 25.0 mm		lbs./syd.	tons	lbs./syd.	tons	lbs./syd.	tons	lbs./syd.	tons	syd	tons	tons	tons	sys.	sys.	lft.	lft.	lft.	
																	%	%	cys	cys		lbs./syd.	tons	lbs./syd.					tons	lbs./syd.	tons	lbs./syd.	tons	lbs./syd.						tons	lbs./syd.	tons	lbs./syd.	tons	lbs./syd.	tons	lbs./syd.	tons	syd	tons	tons	tons							
Sta. 18+00.00 to Sta. 19+08.24 "A"	Mainline																		x	x																																							
Sta. 20+36.74 to Sta. 21+25.00 "A"																				x	x																																						
TOTALS																			x										x	x																													

R/W MARKERS

STATION	LINE	OFFSET	LEFT	RIGHT
18+90	"A"	20.0'	X	
18+90	"A"	160.0'	X	
19+50	"A"	160.0'	X	
19+80	"A"	35.0'	X	
20+60	"A"	35.0'	X	
20+60	"A"	20.0'	X	
18+75	"A"	20.0'		X
19+50	"A"	100.0'		X
20+25	"A"	100.0'		X
20+60	"A"	20.0'		X

GUARDRAIL SUMMARY TABLE

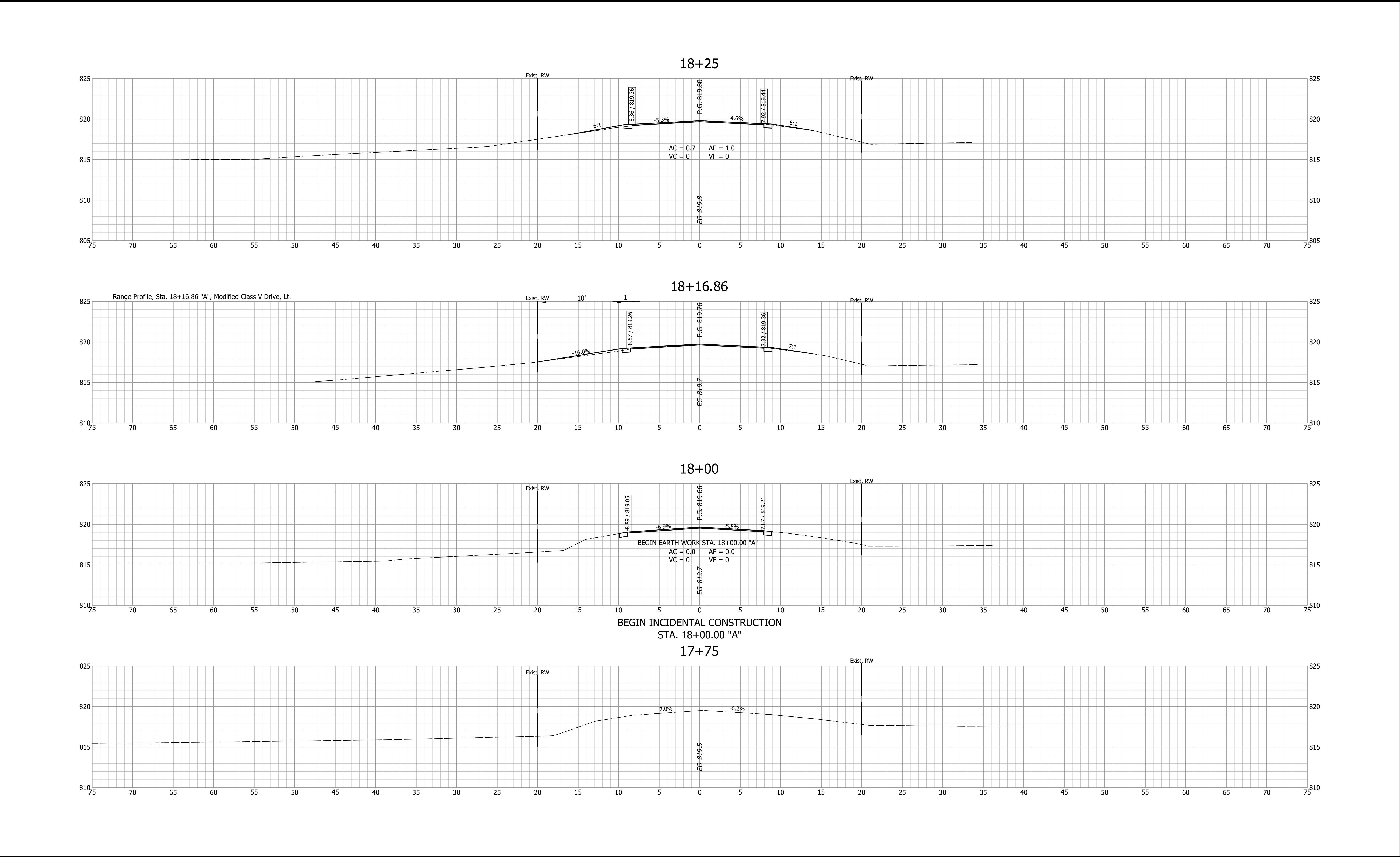
LOCATION												
FROM STATION	TO STATION	LEFT	MEDIAN LEFT	MEDIAN RIGHT	RIGHT	THRIE BEAM TERMINAL CONNECTOR	SYMMETRIC W-BEAM TO THRIE BEAM TRANSITION SECTION	CURVED W-BEAM GUARDRAIL, TYPE 3	CURVED W-BEAM GUARDRAIL, TYPE 2	W-BEAM GUARDRAIL SYSTEM TYPE 1	GUARDRAIL END TREATMENT, TYPE 1	TYPE 5 ANCHOR
19+22.29	19+30.44	X				EACH	EACH	EACH	EACH	EACH	EACH	EACH
19+23.02	19+31.17				X	1	1	1	1			
20+13.81	20+21.96	X				1	1		1			
20+14.54	20+22.69				X	1	1		1			
TOTALS						4	4	1	3			

NOT FOR
CONSTRUCTION

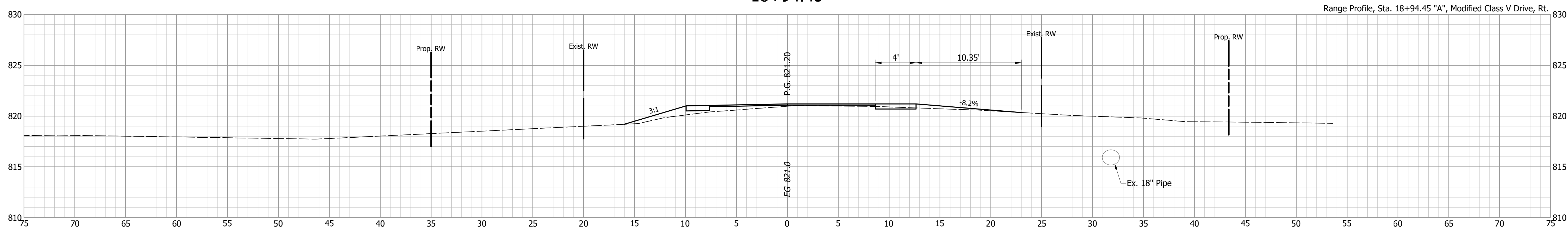
INDIANA
DEPARTMENT OF TRANSPORTATION

BRIDGE SUMMARY

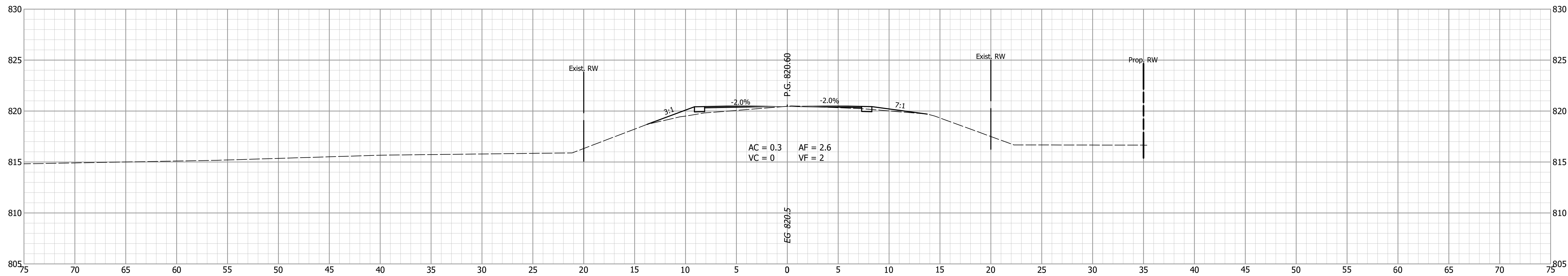
HORIZONTAL SCALE	BRIDGE FILE	
NONE	90-00106	
VERTICAL SCALE	DESIGNATION	
NONE	1702735	
SURVEY BOOK	SHEETS	
	17	of 32
CONTRACT	PROJECT	
B 41155	1702735	



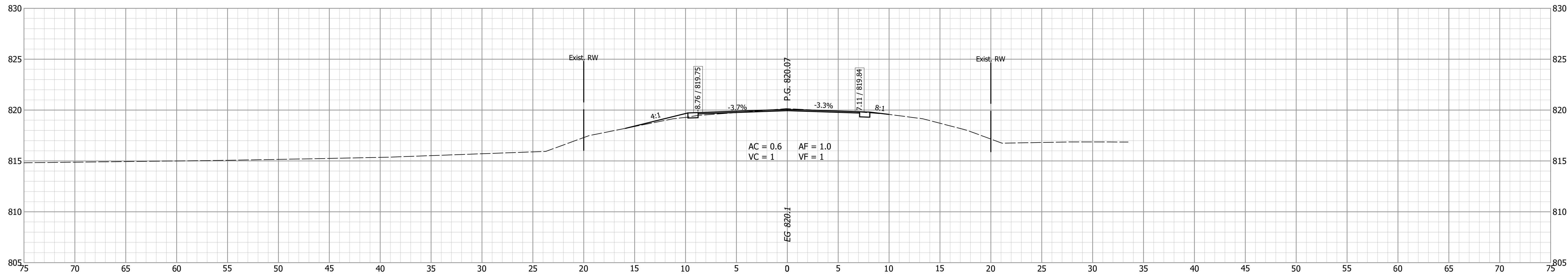
18+94.45



18+75



18+50



--

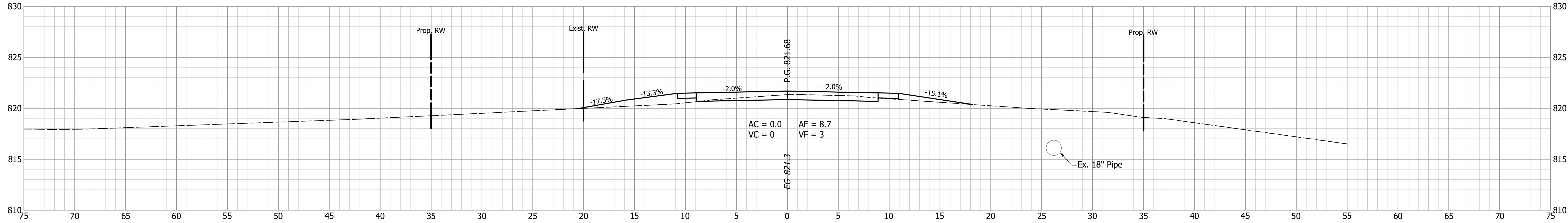
NOT FOR
CONSTRUCTION

DESIGNED: JMH	DRAWN: BDC
CHECKED: MJH	CHECKED: JMH

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS LINE "A"	

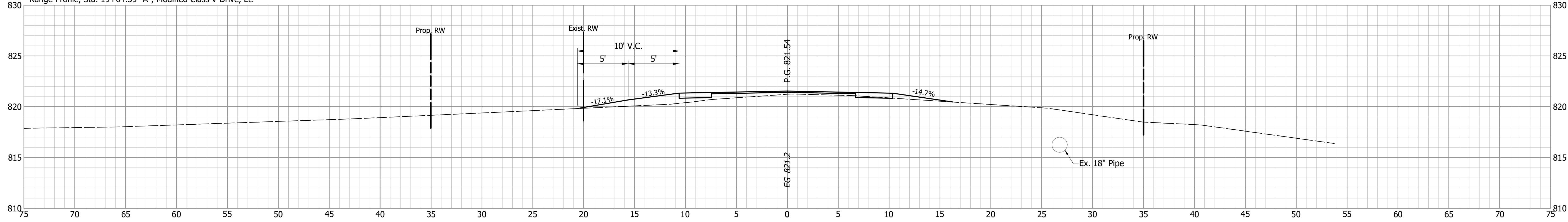
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	90-00106
VERTICAL SCALE	DESIGNATION
1" = 5'	1702735
SURVEY BOOK	SHEETS
CONTRACT	19 of 32
B 41155	PROJECT
	1702735

19+08.24

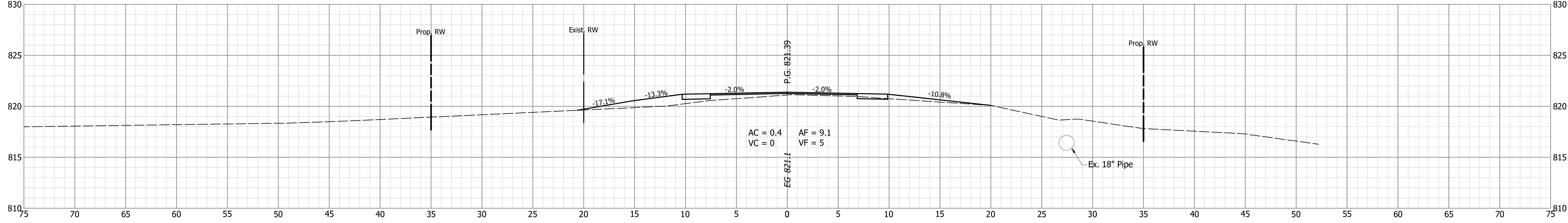


BEGIN PROJECT
STA. 19+08.24 "A"

19+04.39



19+00



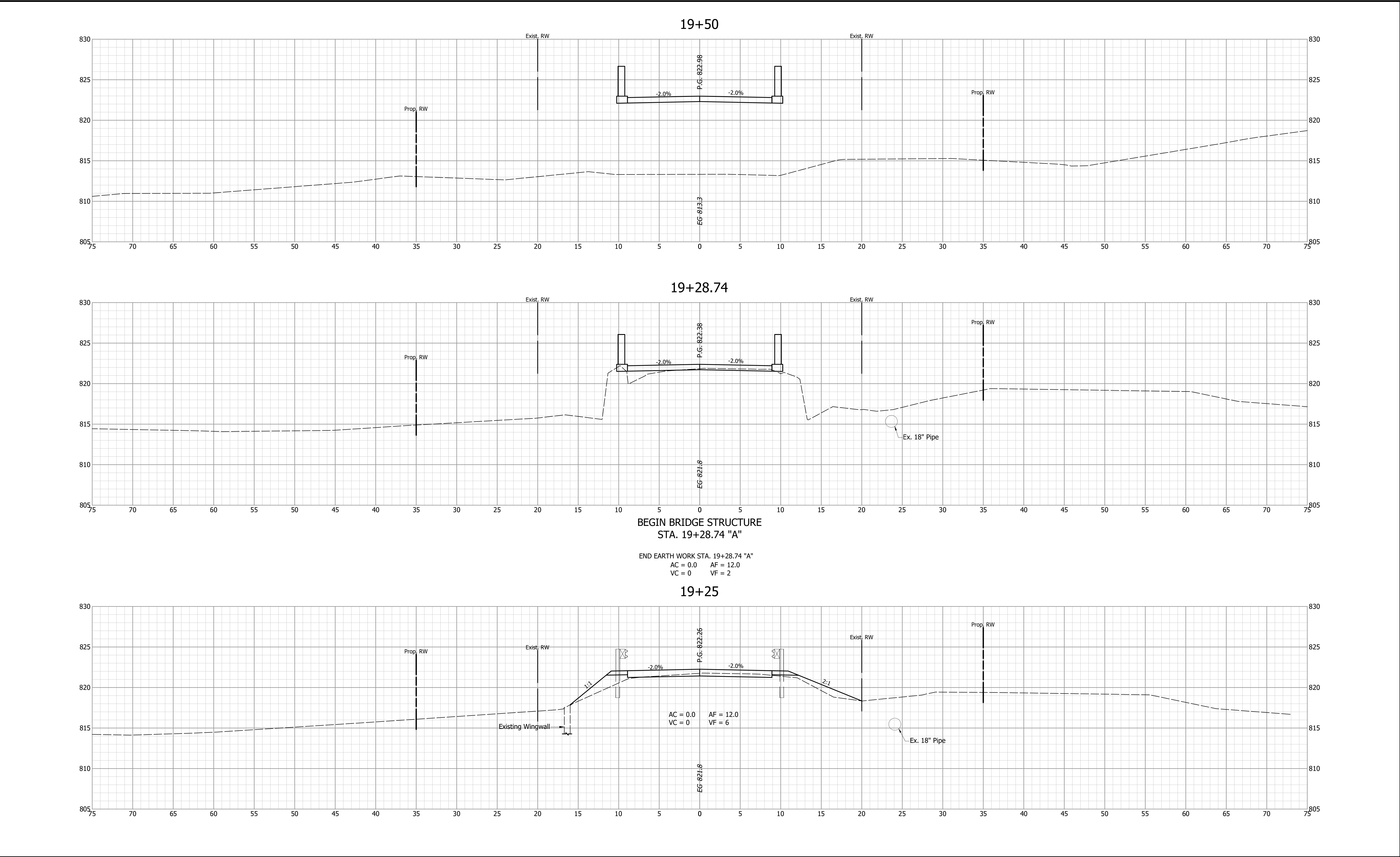
NOT FOR
CONSTRUCTION

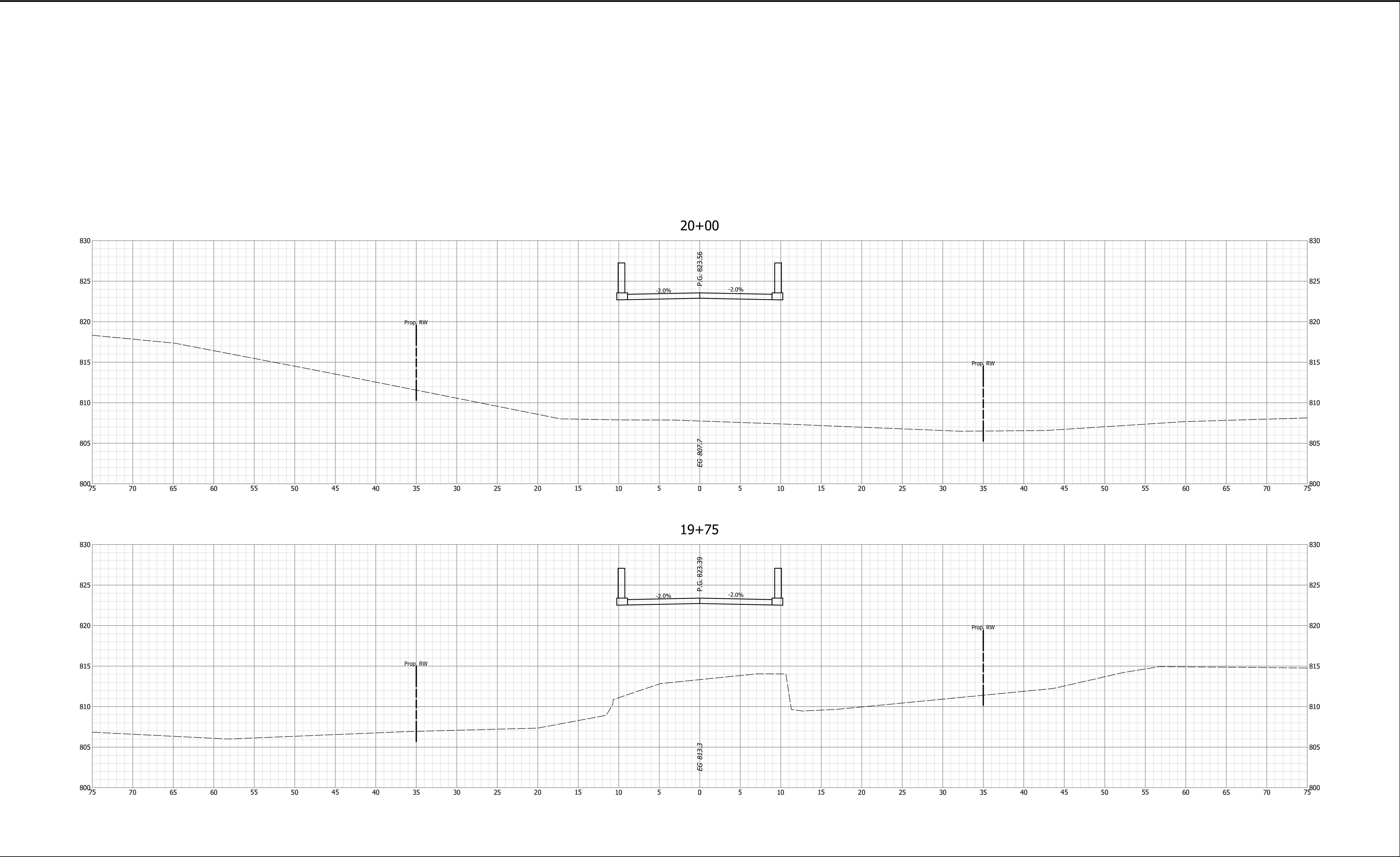
DESIGNED: JMH	DRAWN: BDC
CHECKED: MJH	CHECKED: JMH

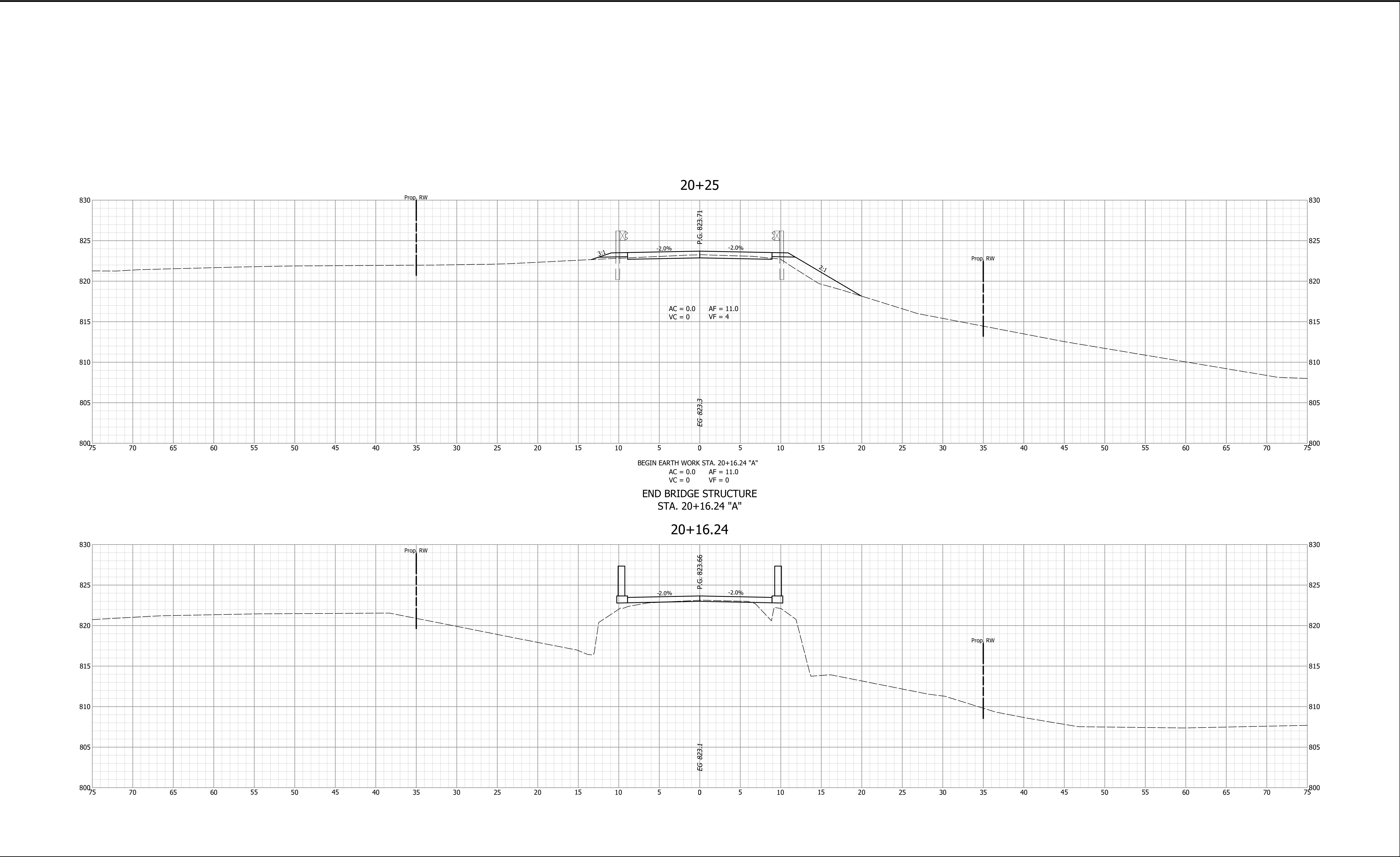
INDIANA
DEPARTMENT OF TRANSPORTATION

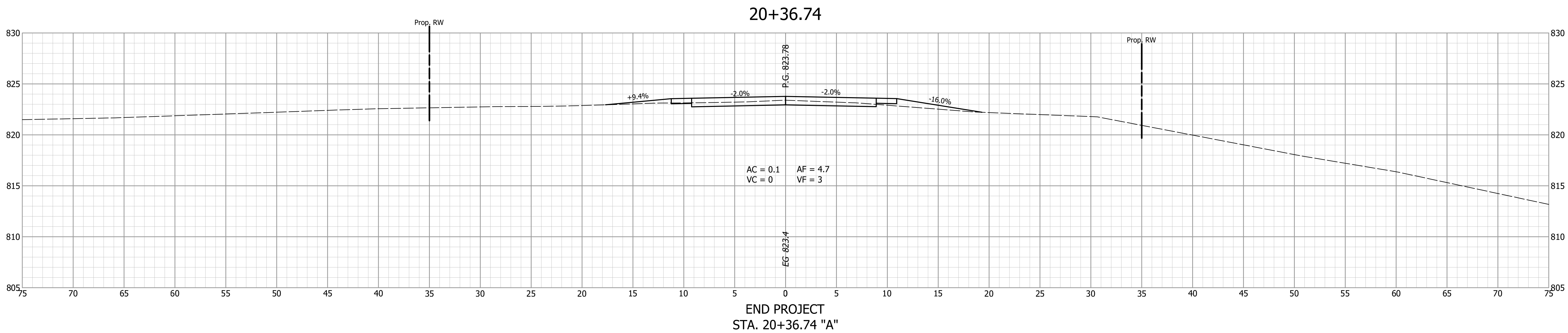
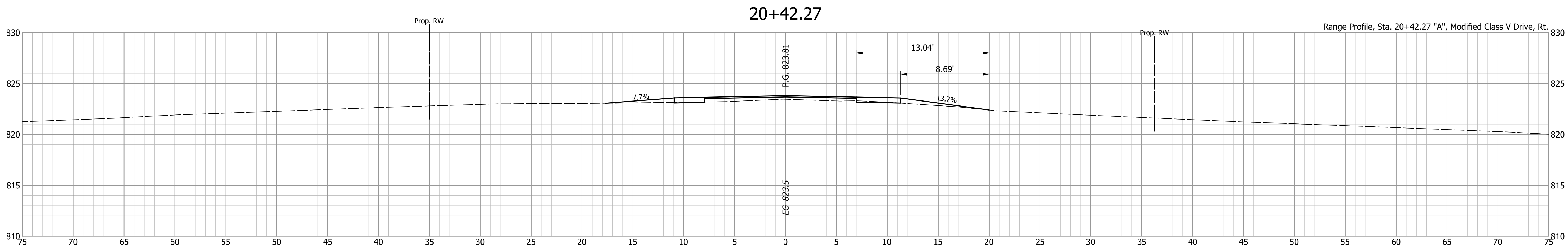
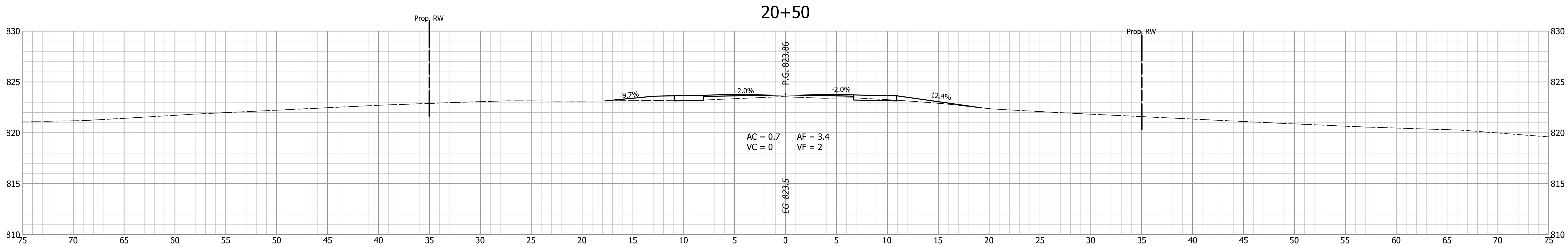
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	90-00106
VERTICAL SCALE	DESIGNATION
1" = 5'	1702735
SURVEY BOOK	SHEETS
	20 of 32
CONTRACT	PROJECT
B 41155	1702735









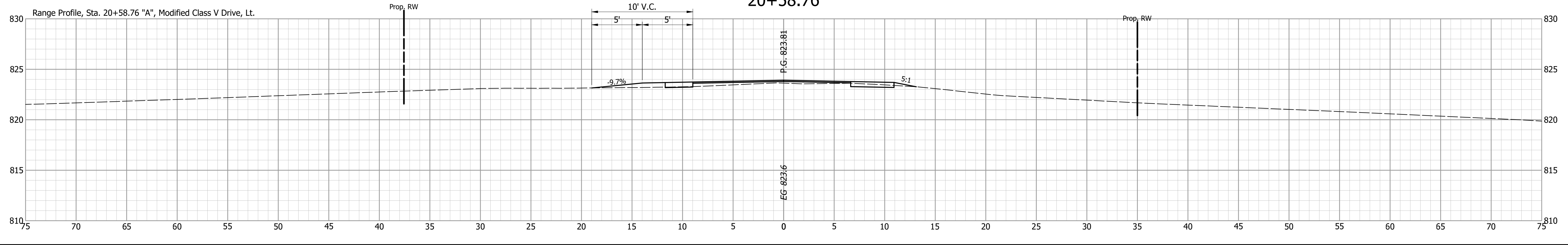
--

NOT FOR
CONSTRUCTION

DESIGNED: JMH	DRAWN: BDC
CHECKED: MJH	CHECKED: JMH

INDIANA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	90-00106
VERTICAL SCALE	DESIGNATION
1" = 5'	1702735
SURVEY BOOK	SHEETS
CONTRACT	24 of 32
B 41155	PROJECT
	1702735



NOT FOR
CONSTRUCTION

DESIGNED: JMH DRAWN: BDC

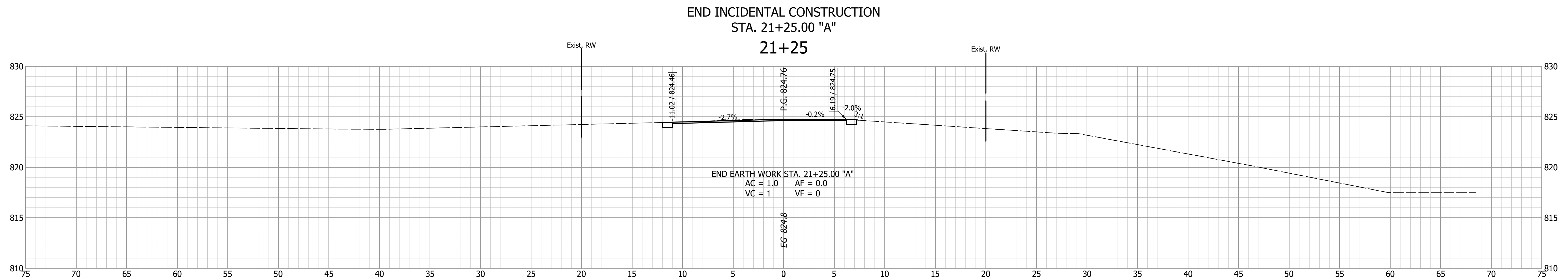
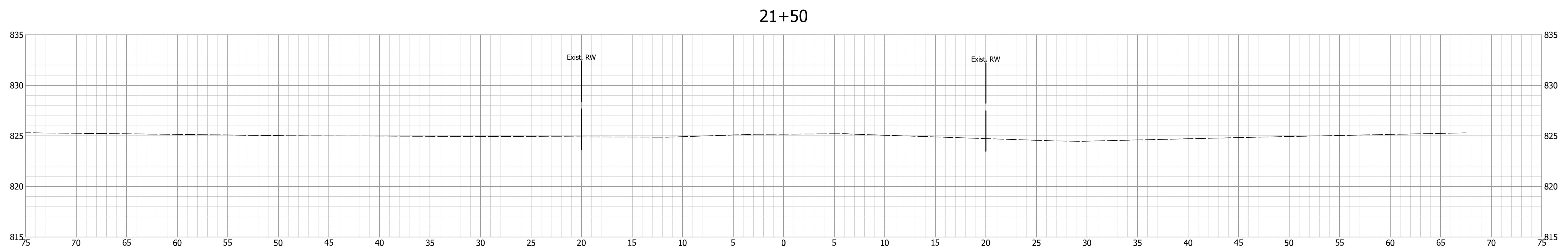
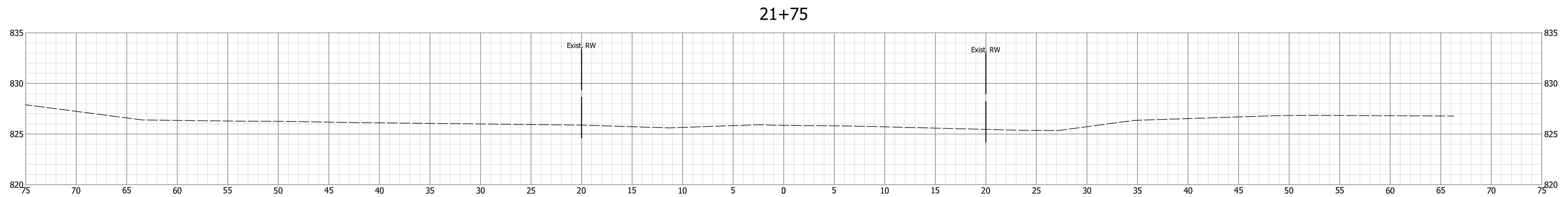
CHECKED: MJH

CHECKED: JMH

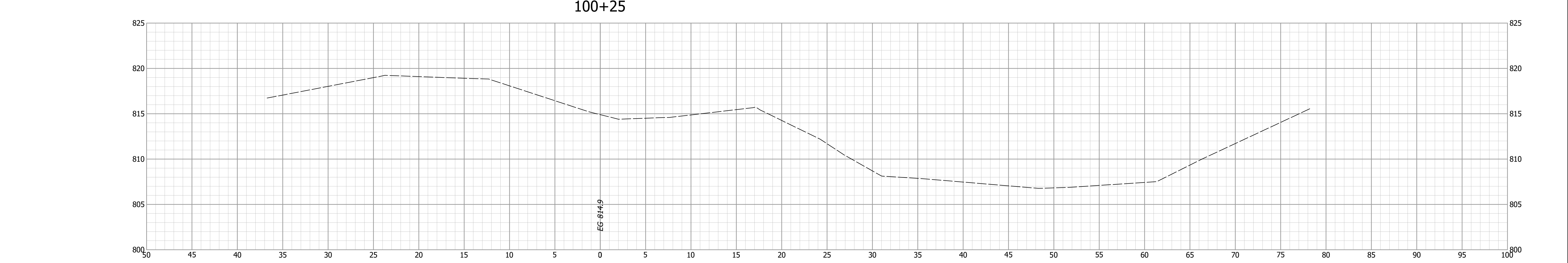
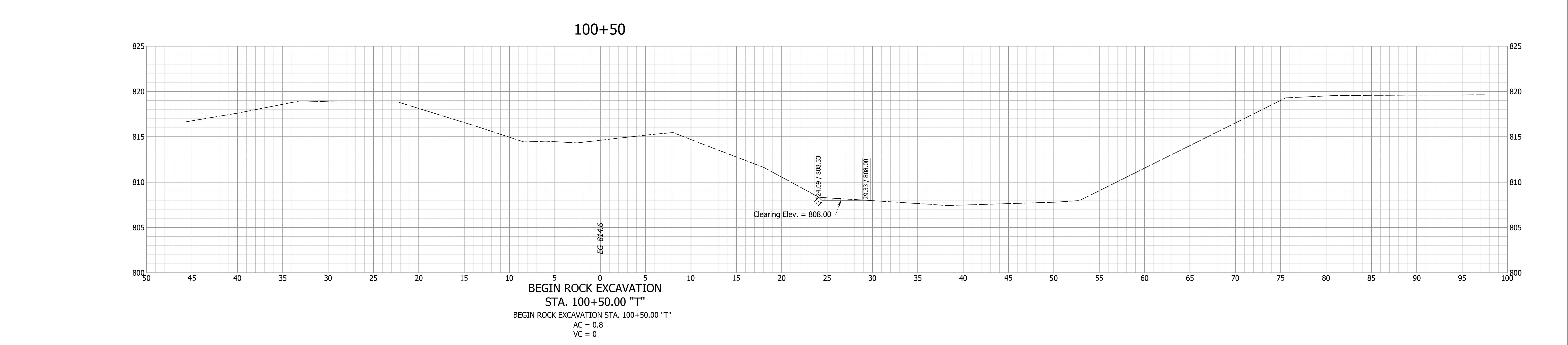
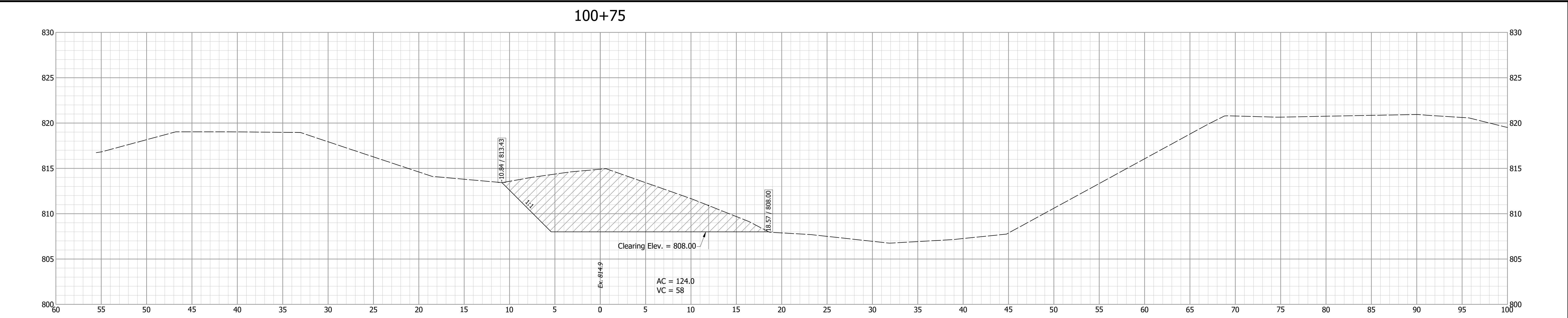
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

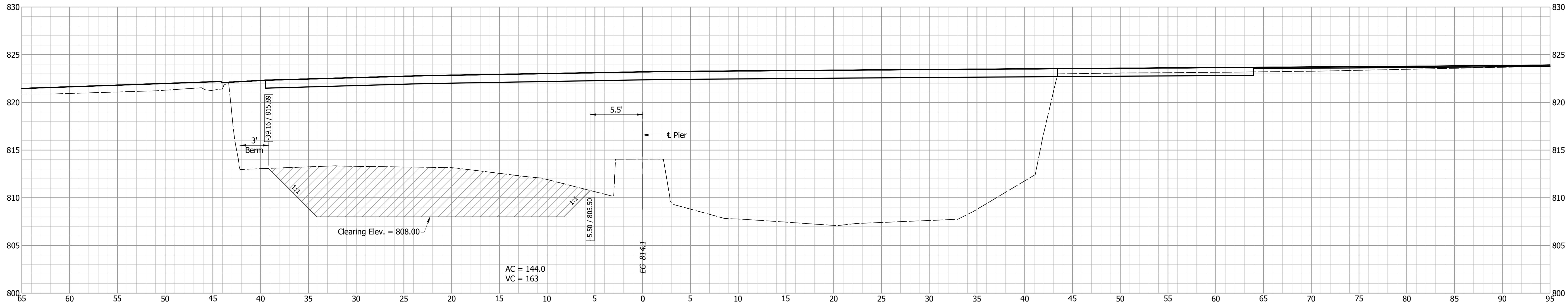
HORIZONTAL SCALE	BRIDGE FILE		
1" = 5'	90-00106		
VERTICAL SCALE	DESIGNATION		
1" = 5'	1702735		
SURVEY BOOK	SHEETS		
	25	of	32
CONTRACT	PROJECT		
B 41155	1702735		



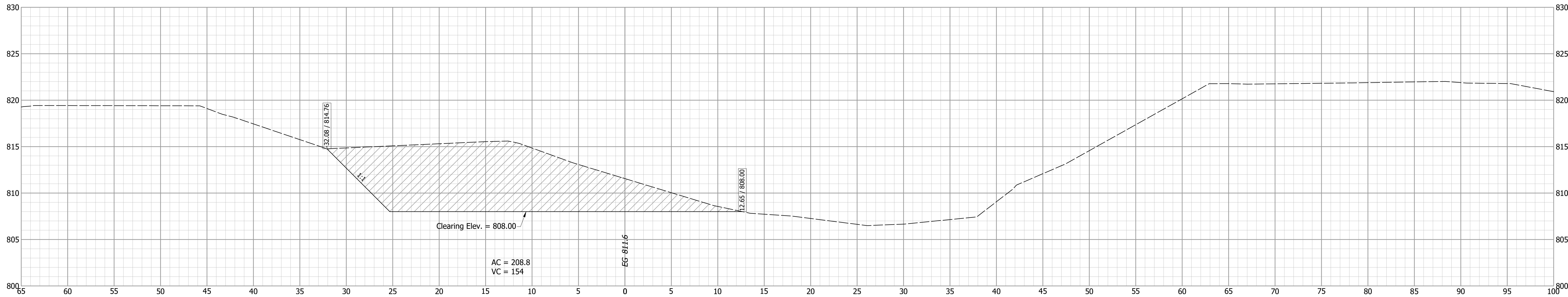
	NOT FOR CONSTRUCTION			INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE		BRIDGE FILE		
					1" = 5'		90-00106		
				CROSS SECTIONS LINE "A"	VERTICAL SCALE		DESIGNATION		
					1" = 5'		1702735		
DESIGNED: JMH		DRAWN: BDC				SURVEY BOOK		SHEETS	
CHECKED: MJH		CHECKED: JMH				26 of 32		PROJECT	
						CONTRACT		1702735	
						B 41155			



101+25



101+00



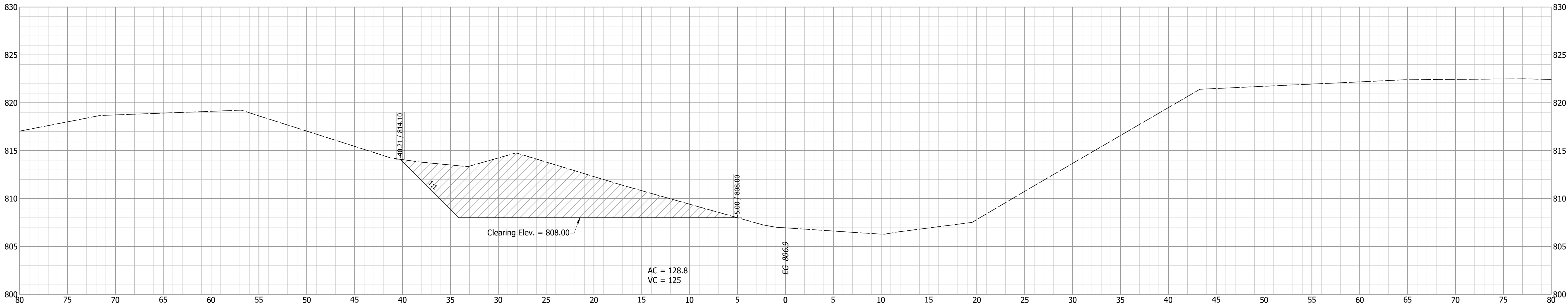
NOT FOR
CONSTRUCTION

INDIANA
DEPARTMENT OF TRANSPORTATION

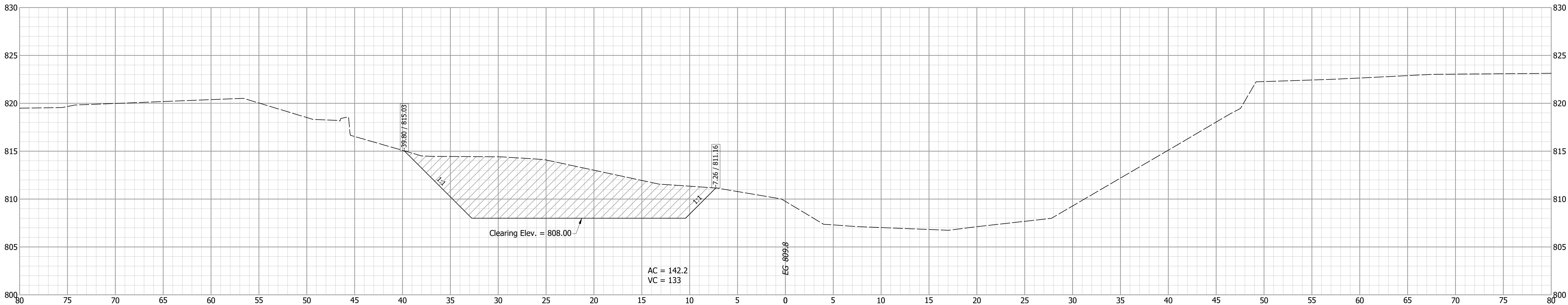
CROSS SECTIONS
LINE "T"

HORIZONTAL SCALE	BRIDGE FILE		
1" = 5'	90-00106		
VERTICAL SCALE	DESIGNATION		
1" = 5'	1702735		
SURVEY BOOK	SHEETS		
	28	of	32
CONTRACT	PROJECT		
B 41155	1702735		

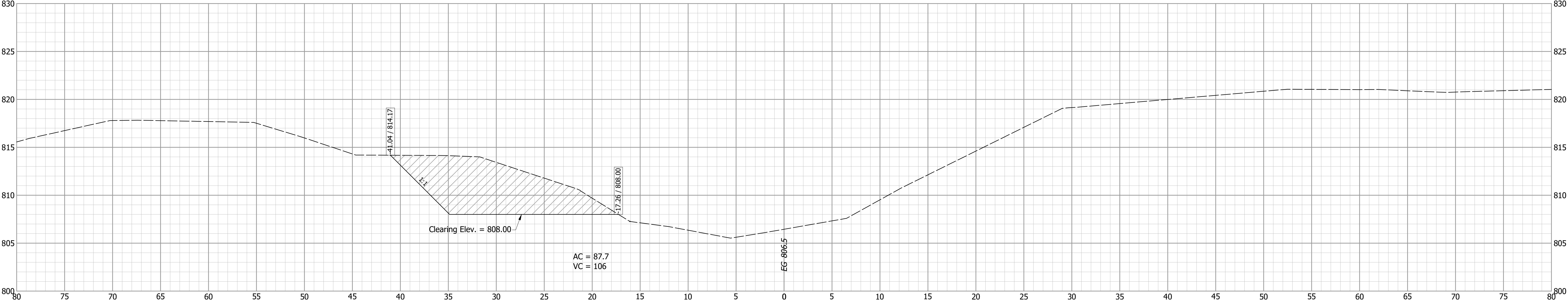
101+75



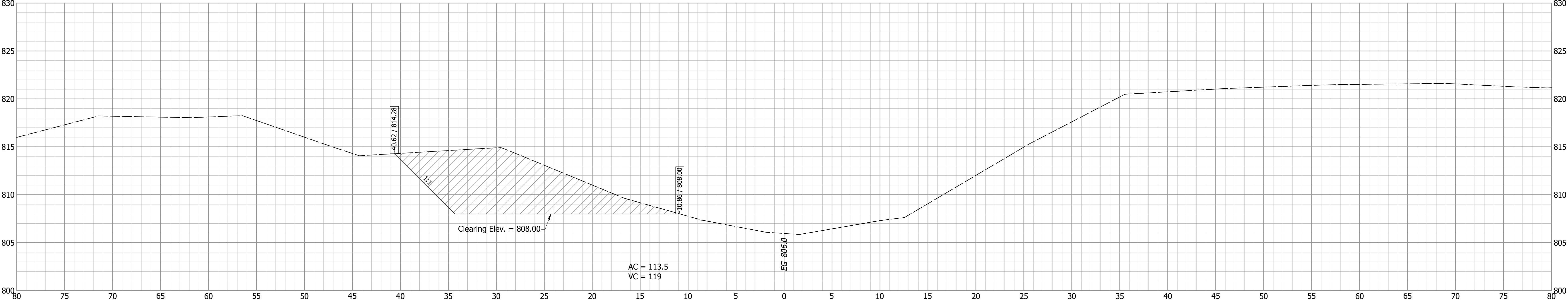
101+50



102+25



102+00



NOT FOR
CONSTRUCTION

DESIGNED: _____ MJH
CHECKED: _____ MJH

DRAWN: _____ BDC
CHECKED: _____ MJH

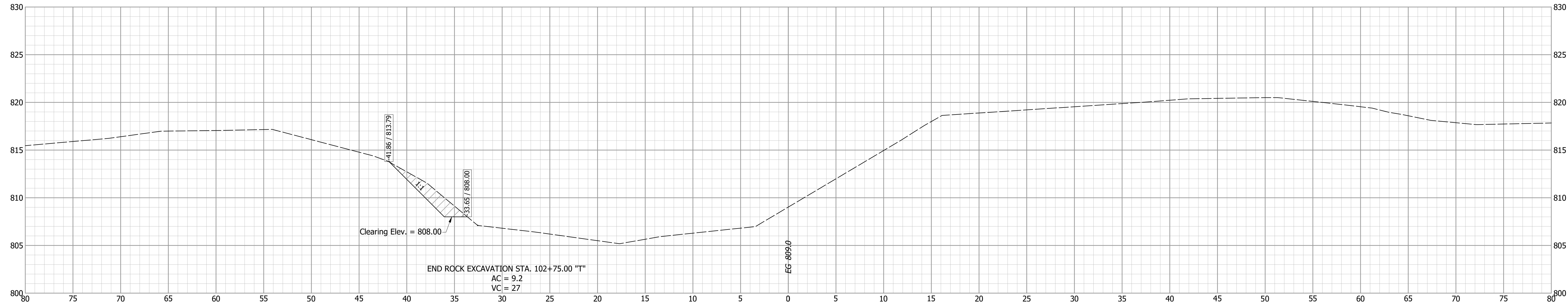
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "T"

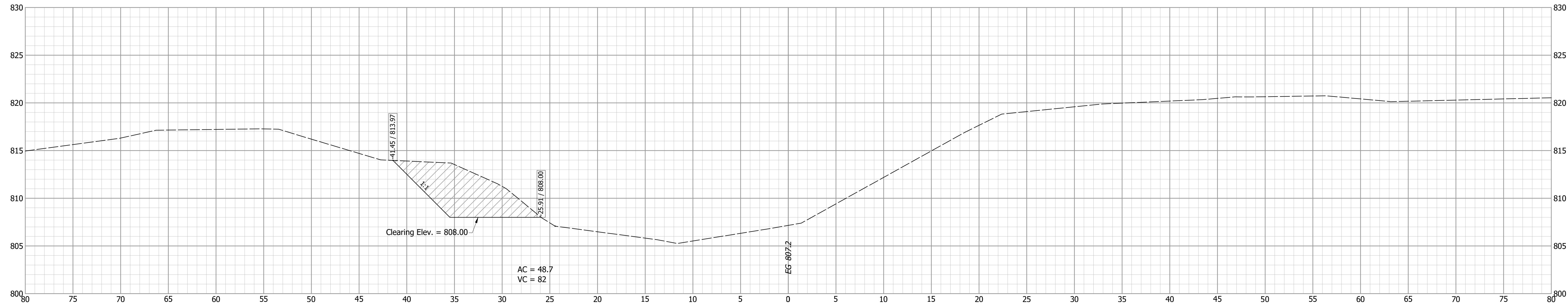
HORIZONTAL SCALE	BRIDGE FILE		
1" = 5'	90-00106		
VERTICAL SCALE	DESIGNATION		
1" = 5'	1702735		
SURVEY BOOK	SHEETS		
	30	of	32
CONTRACT	PROJECT		
B 41155	1702735		

END ROCK EXCAVATION
STA. 102+75.00 "T"

102+75



102+50

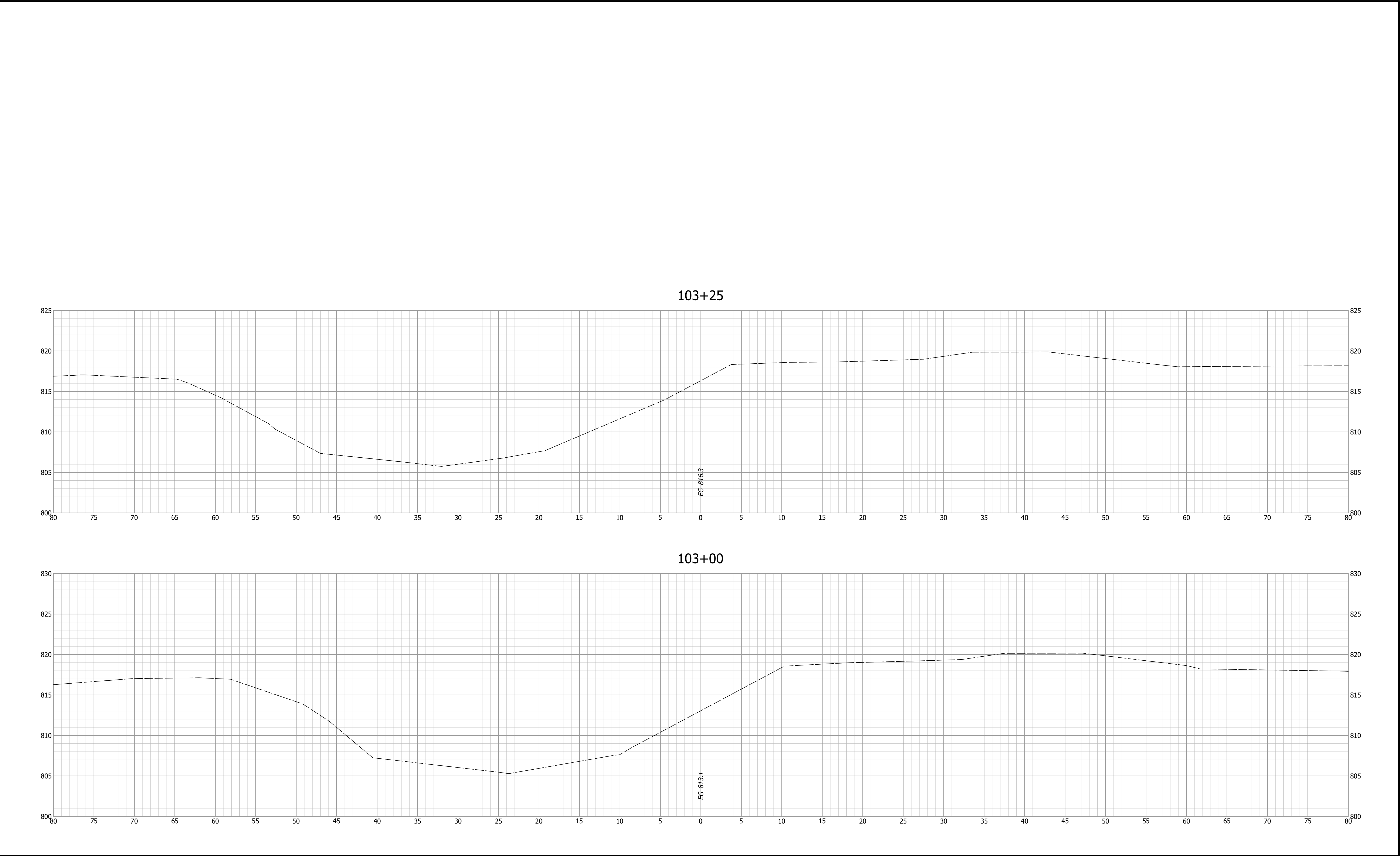


NOT FOR
CONSTRUCTION

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "T"

HORIZONTAL SCALE	BRIDGE FILE		
1" = 5'	90-00106		
VERTICAL SCALE	DESIGNATION		
1" = 5'	1702735		
SURVEY BOOK	SHEETS		
	31	of	32
CONTRACT	PROJECT		
B 41155	1702735		



	NOT FOR CONSTRUCTION			INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 5'		BRIDGE FILE 90-00106					
						VERTICAL SCALE 1" = 5'		DESIGNATION 1702735					
		DESIGNED: _____ JMH		DRAWN: _____ BDC		CROSS SECTIONS LINE "T"				SURVEY BOOK		SHEETS	
		CHECKED: _____ MJH		CHECKED: _____ JMH						CONTRACT B 41155		32 of 32 PROJECT 1702735	