

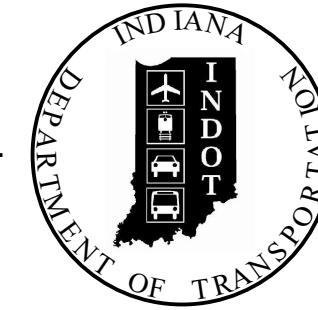
PROJECT	DESIGNATION
1700077	1700077
CONTRACT	BRIDGE FILE
B-40608	016-56-10320

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
016-56-10320	Composite Prestressed Concrete Box Beam	1 Span: 67'-0", Skew: 7° Lt.	Mosquito Creek	436+92.05 Line "A"

KIN PROJECT INFORMATION					
DESIGNATION	PROJECT DESCRIPTION				
	Work Type	Route	Location	Feature Crossed	County
1700075	Bridge Replacement, Concrete	SR 10	2.31 mi E of US 41	Knight Ditch	Newton County
1700076 (LEAD)	Bridge Replacement, Concrete	SR 14	2.27 mi E of US 41	Gaff Ditch	Newton County
1700077	Bridge Replacement, Concrete	SR 16	1.31 mi E of SR 55	Mosquito Creek	Newton County
1700083	Bridge Replacement, Concrete	US 41 NB	1.63 mi N of SR 16	Chizum Ditch	Newton County
1700085	Bridge Replacement, Concrete	US 41 SB	1.63 mi N of SR 16	Chizum Ditch	Newton County
1700124	Small Structure - New	SR 114	1.75 mi W of SR 55	Turner Ditch	Newton County
1701324	Small Structure Replacement	US 41	0.28 mi S of SR 16	Hambridge Ditch	Newton County
1701478	Small Structure Replacement	SR 16	2.9 mi E of SR 55	Simonim Ditch	Jasper County
1701492	Small Structure Replacement	SR 114	0.43 mi W of Jct of SR 55	Haynes Tile	Newton County
1701505	Small Structure Replacement	US 24	1.6 mi W of SR 55	Kent Tile	Newton County
1701541	Small Structure Pipe Lining	SR 114	0.03 mi E of Jct of I-65	UNT to Yeoman Ditch	Jasper County

PFC Plans  
November 11, 2019

# INDIANA DEPARTMENT OF TRANSPORTATION



## BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: SR 16

AT: RP 8+10

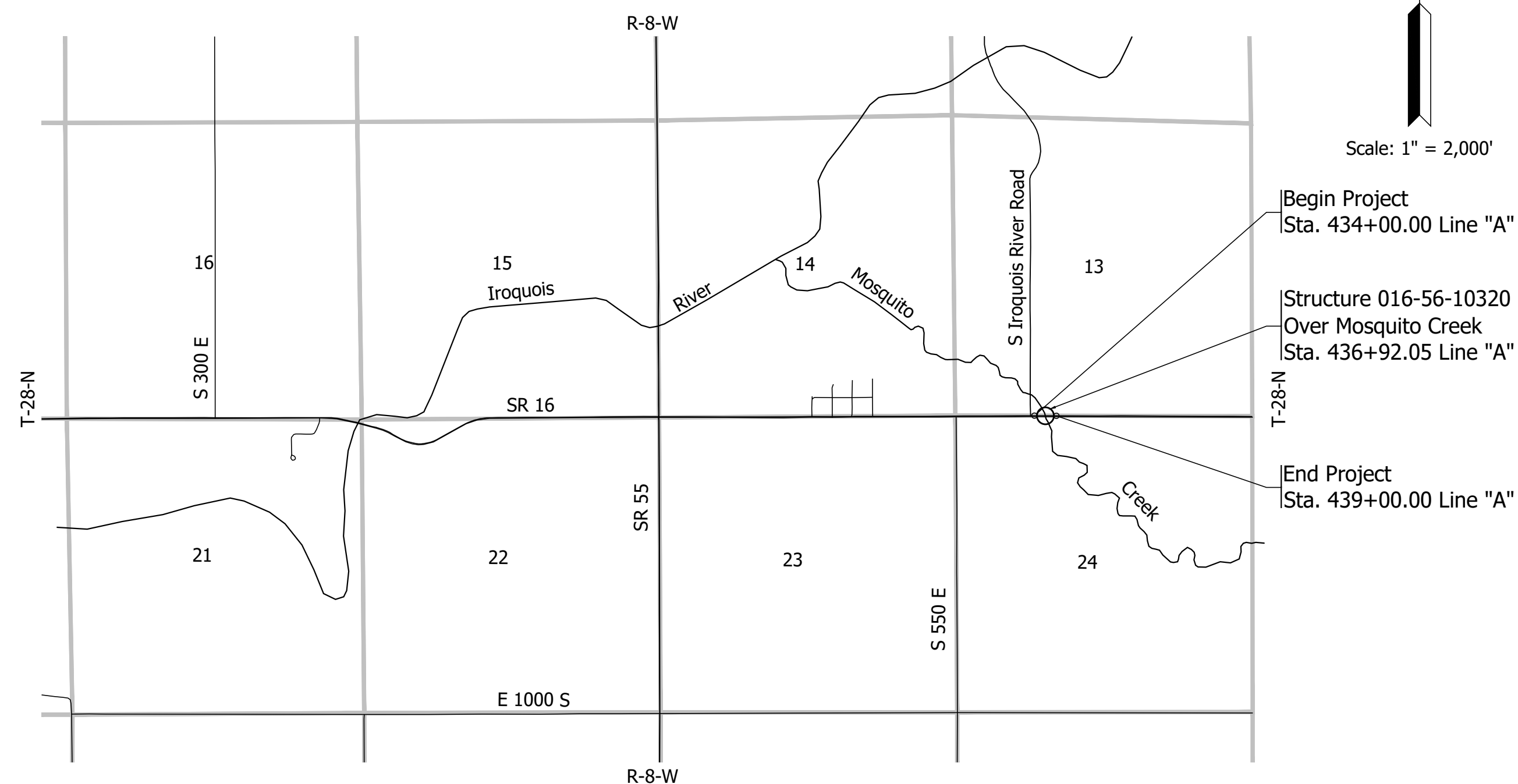
PROJECT NO.

1700077 P.E.

1700077 R/W

1700077 CONST.

Bridge Replacement, Concrete on SR 16 over Mosquito Creek  
Located 1.31 Miles East of SR 55  
Section 13 & 24, T-28-N, R-8-W, Iroquois Township, Newton County

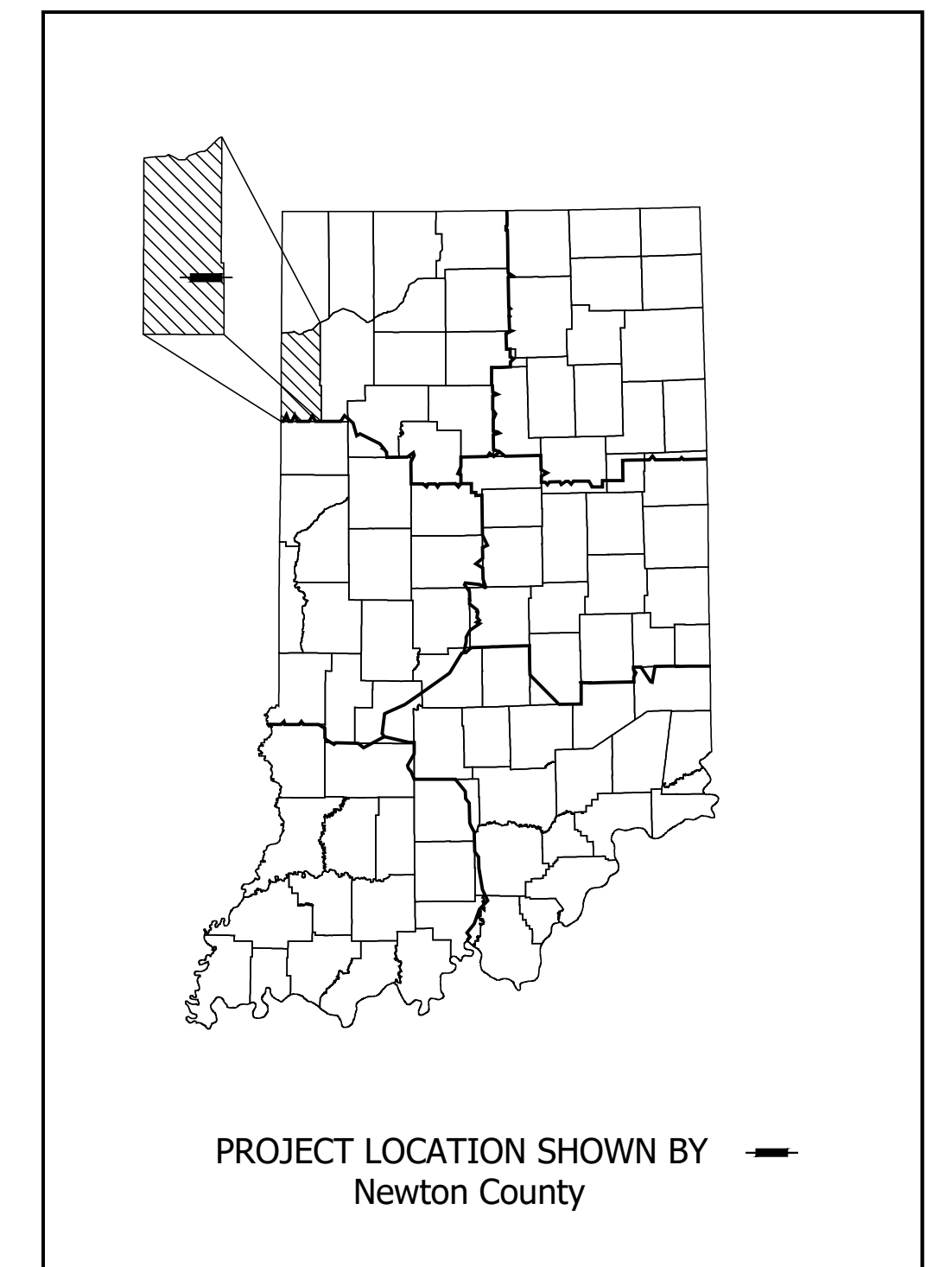


Location Map  
Newton County

TRAFFIC DATA	
	SR 16
A.A.D.T. (2022)	1,166 V.P.D.
A.A.D.T. (2042)	1,220 V.P.D.
D.H.V. (2042)	107 V.P.H.
DIRECTIONAL DISTRIBUTION	52% EB / 48% WB
TRUCKS	14% A.A.D.T. 22% D.H.V.

DESIGN DATA	
DESIGN SPEED	55 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	STATE COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE



LATITUDE: 40° 51' 57" LONGITUDE: -87° 16' 53"

BRIDGE LENGTH:	0.013	MI.
ROADWAY LENGTH:	0.082	MI.
TOTAL LENGTH:	0.095	MI.
MAX. GRADE:	0.69	%

HUC 12: 071200020405  
HUC 14: 07120002040060

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

**LOCHMUELLER GROUP**  
112 West Jefferson Blvd, Suite 500  
South Bend, Indiana 46601  
574.334.5460

PLANS PREPARED BY: Lochmueller Group, Inc. (574) 334-5460  
PHONE NUMBER

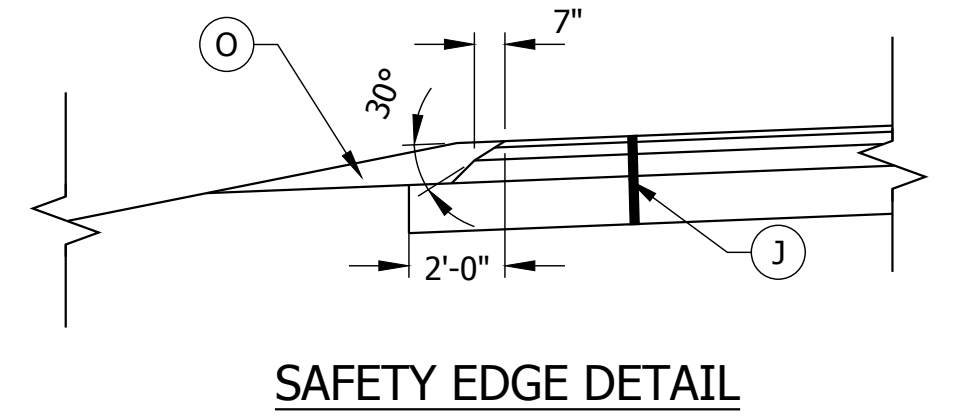
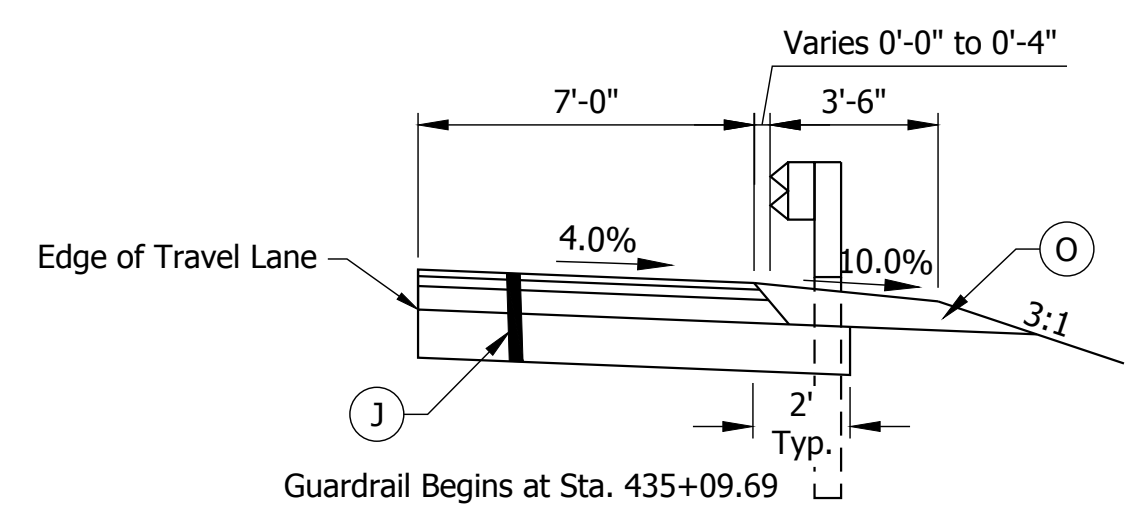
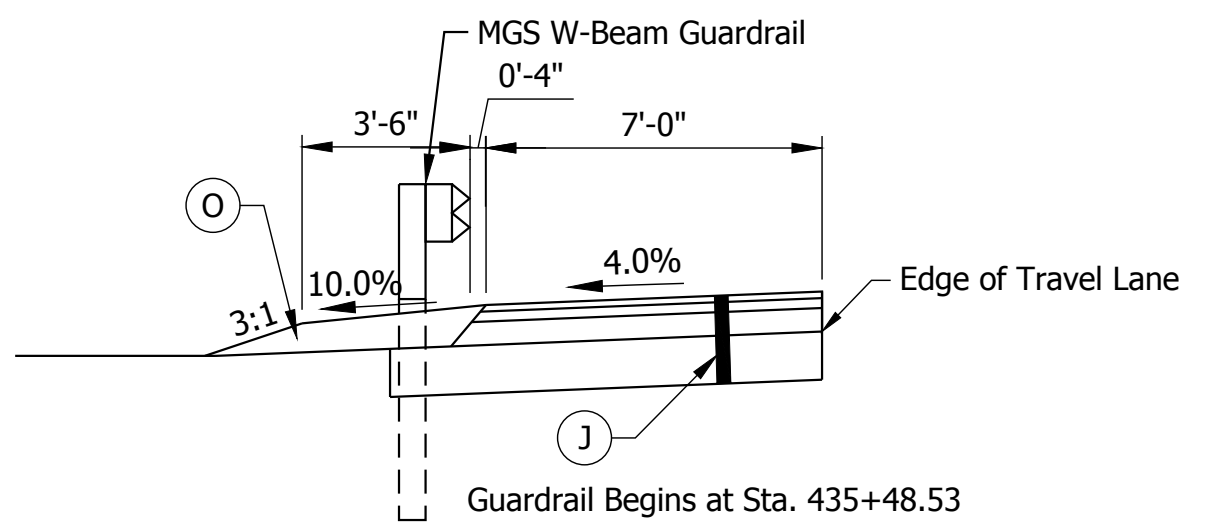
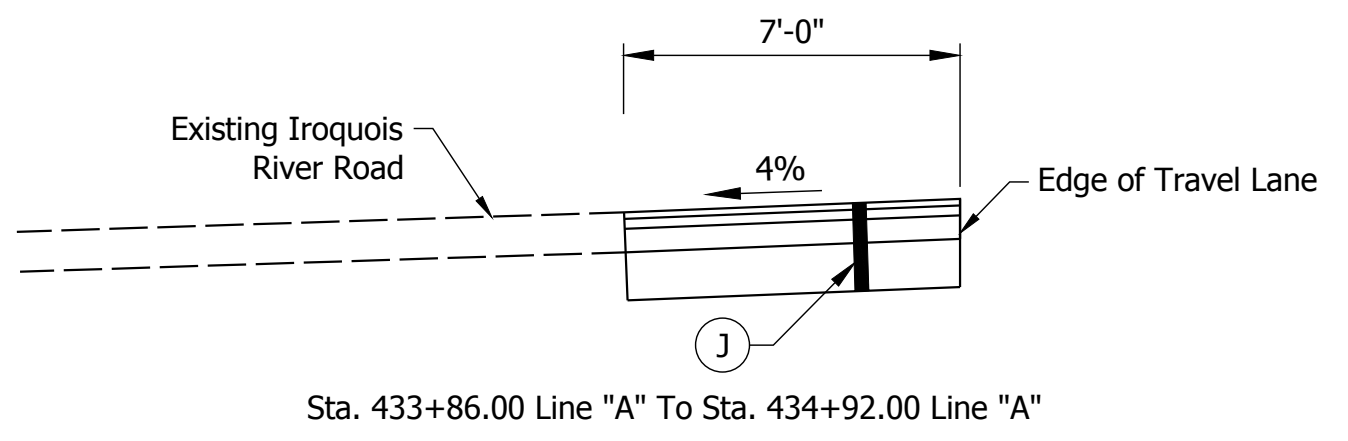
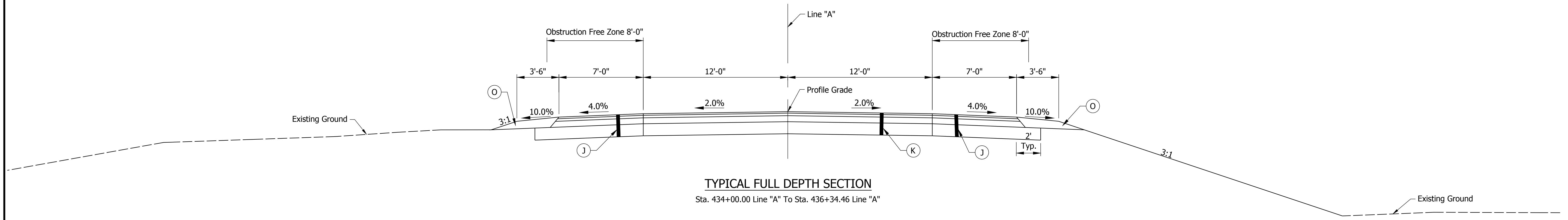
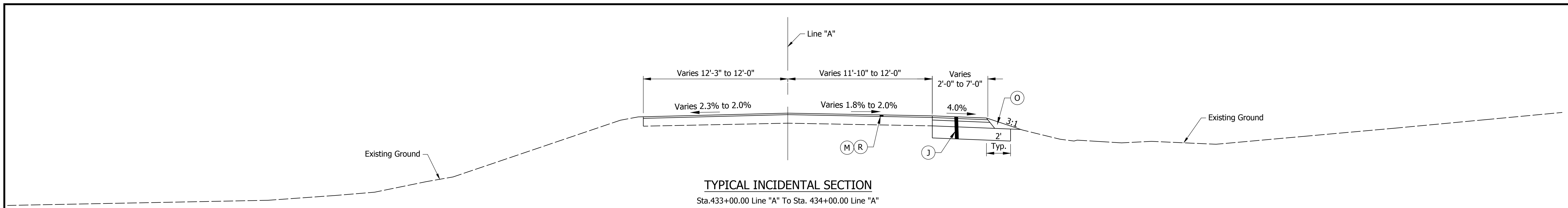
CERTIFIED BY: \_\_\_\_\_ DATE \_\_\_\_\_

APPROVED FOR LETTING: \_\_\_\_\_ DATE \_\_\_\_\_

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FILE	
016-56-10320	
DESIGNATION	
1700077	
SURVEY BOOK	SHEET
ELECTRONIC	1 of 17
CONTRACT	PROJECT
B-40608	1700077





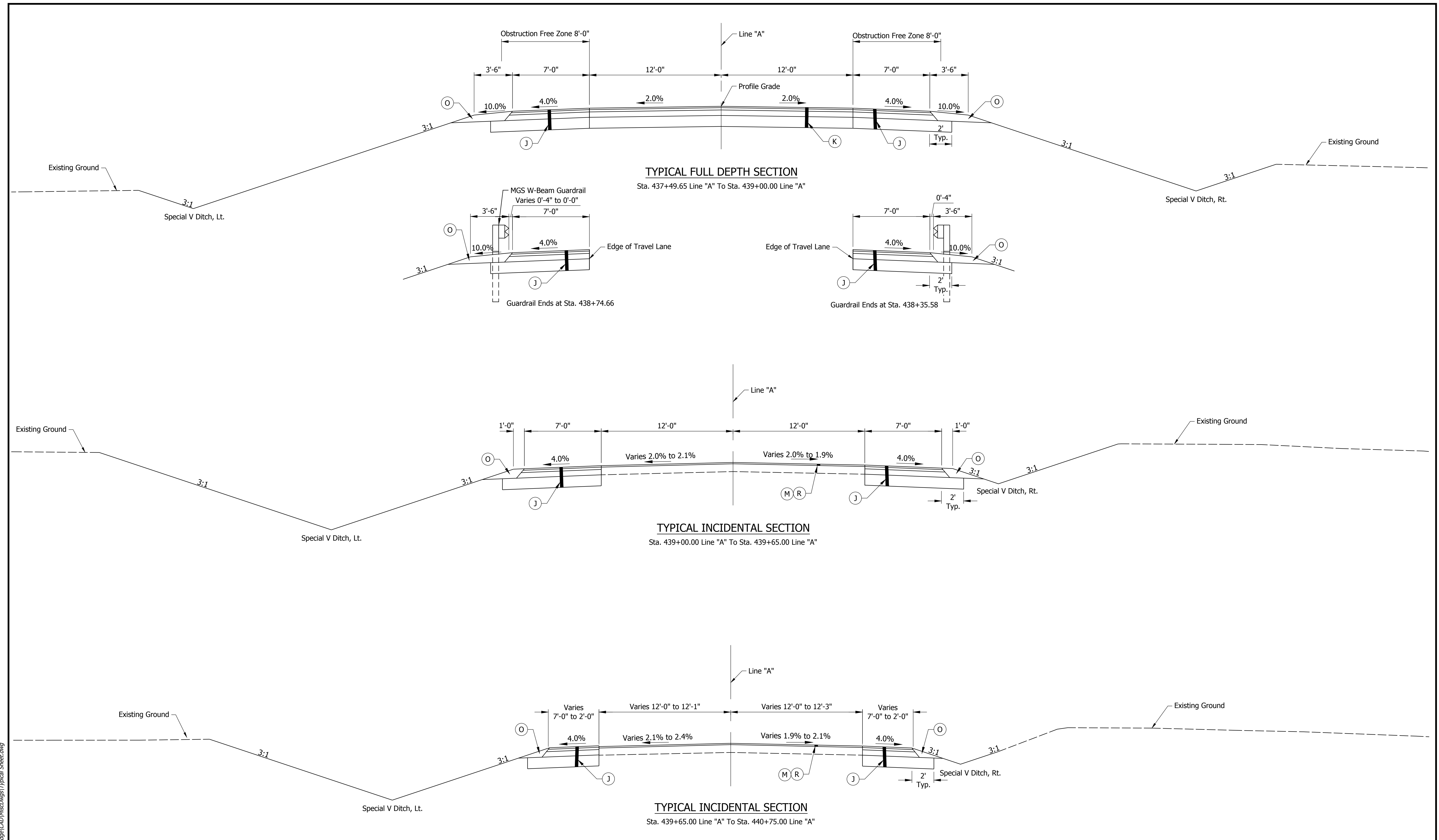
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(J) Pavement Design Will Be Determined After Completion Of Geotechnical Report	(K) Pavement Design Will Be Determined After Completion Of Geotechnical Report	(M) Milling, Asphalt, 1 1/2"
		(O) Compacted Aggregate, No. 53
		(R) 165#/SYS QC/QA-HMA, 3, 64, Surface, 9.5mm

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE --/--
DESIGNED: _____	BSS	DRAWN: _____
CHECKED: _____	BKA	CHECKED: _____
	BKA	

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>TYPICAL CROSS SECTIONS</b>	

HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE 016-56-10320
VERTICAL SCALE 1/4" = 1'-0"	DESIGNATION 1700077
SURVEY BOOK	SHEET
ELECTRONIC	3 of 17
CONTRACT B-40608	PROJECT 1700077



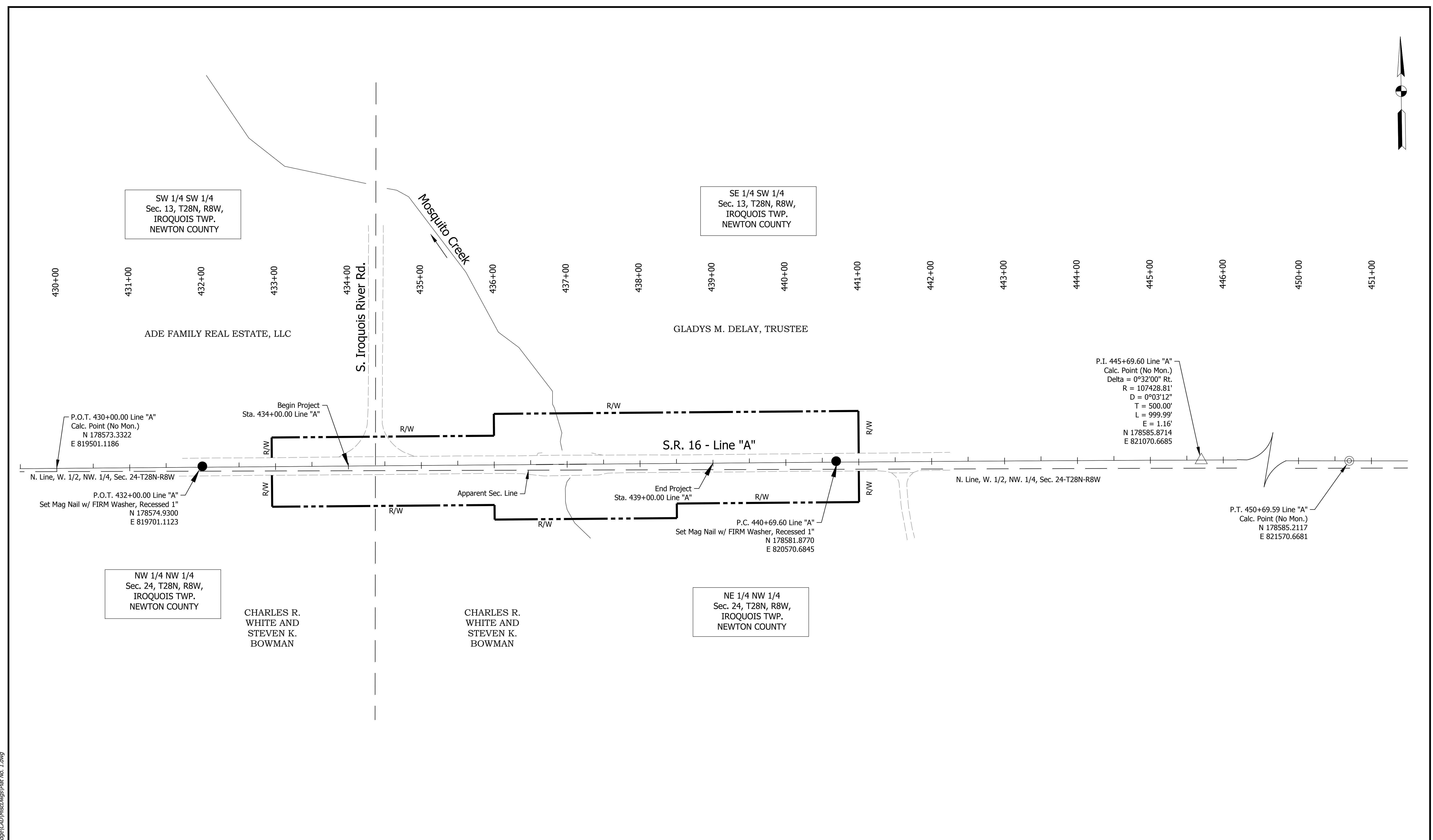
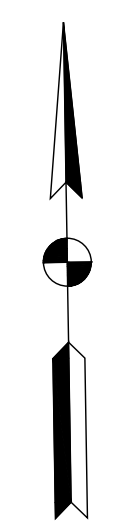
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE --/--
DESIGNED: _____	BSS	DRAWN: _____
CHECKED: _____	BKA	CHECKED: _____
	BKA	

INDIANA DEPARTMENT OF TRANSPORTATION	
<b>TYPICAL CROSS SECTIONS</b>	

HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE 016-56-10320
VERTICAL SCALE 1/4" = 1'-0"	DESIGNATION 1700077
SURVEY BOOK ELECTRONIC	SHEET 4 of 17
CONTRACT B-40608	PROJECT 1700077



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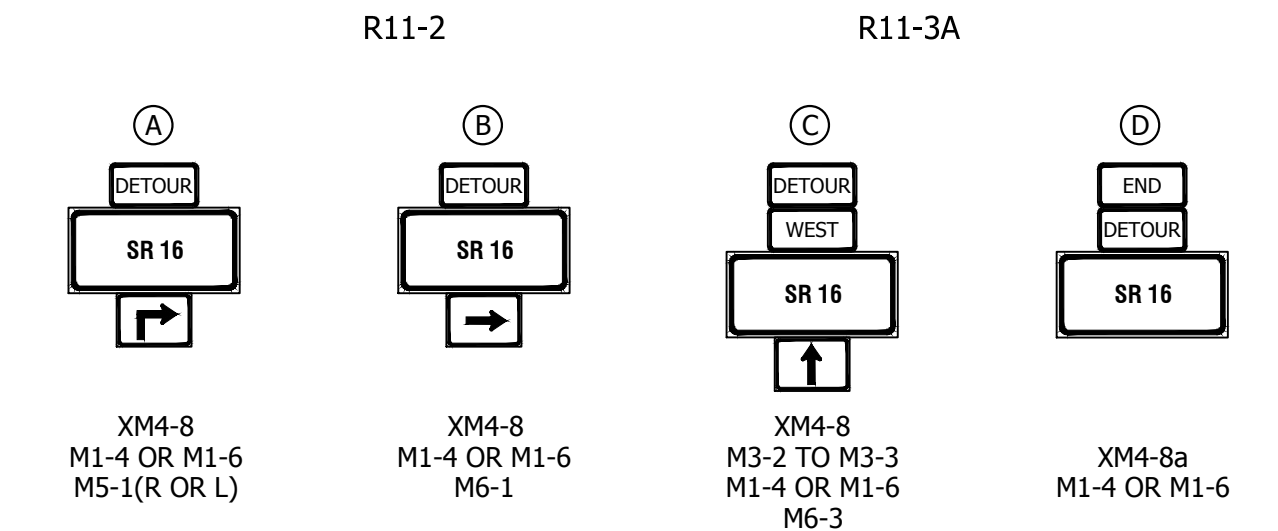
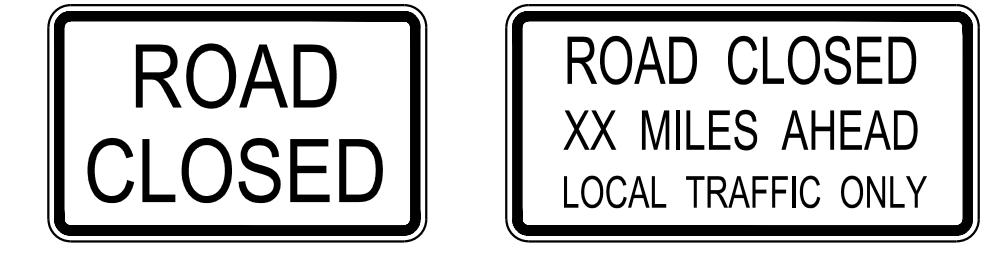
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				PLAT NO. 1	VERTICAL SCALE	DESIGNATION
					N/A	1700077
					SURVEY BOOK	SHEET
				ELECTRONIC	5 of 17	
				CONTRACT	PROJECT	
				B-40608	1700077	

CONSTRUCTION SIGN SCHEDULE					
SIGN NO.	DESCRIPTION	SIZE (IN)	TYPE	QUANTITY	
R11-2	"ROAD CLOSED" SIGN	48 x 30	(1)	2	
R11-3A	"ROAD CLOSED XX MILES AHEAD" SIGN	60 x 30	(1)	4	
XM4-10 (L or R)	"DETOUR" SIGN	48 x 18	(1)	2	
XW20-1	"ROAD CONSTRUCTION AHEAD" SIGN	48 x 48	A	2	
XW20-2	"DETOUR AHEAD" SIGN	48 x 48	A	2	
XW20-3	"ROAD CLOSED AHEAD" SIGN	48 x 48	A	2	
				TOTAL TYPE "A" SIGNS	6

Detour Route Marker Assemblies: 32 Req'd  
 Road Closure Sign Assemblies: 6 Req'd  
 Type III-A Barricades: 48 Lft.  
 Type III-B Barricades: 48 Lft.

(1) Included with road closure sign assembly.

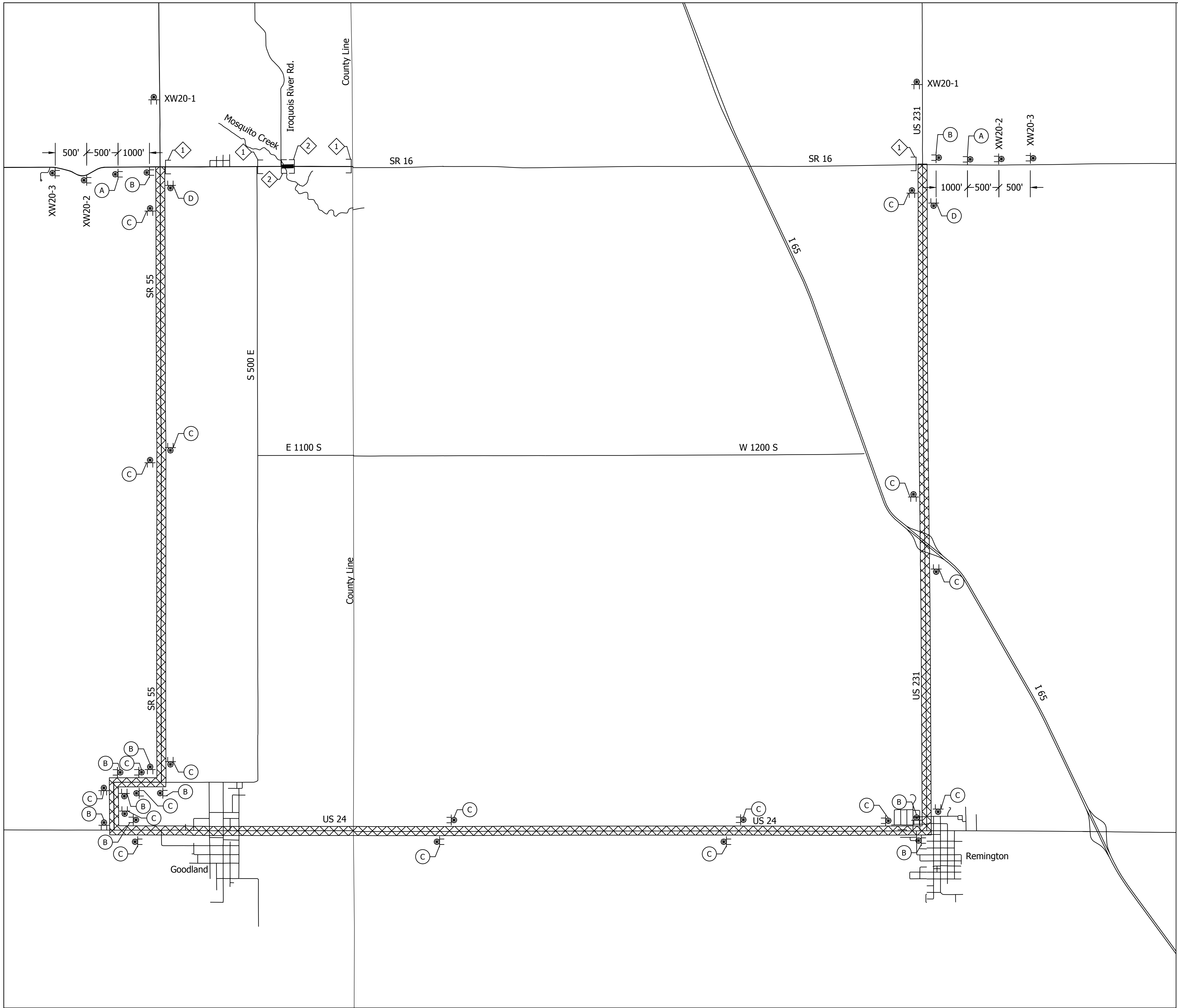
LEGEND



- ① ROAD CLOSURE SIGN ASSEMBLY W/ TYPE III-B BARRICADE (12 LFT.) AND R11-3A AND XM4-10 (L OR R)
- ② ROAD CLOSURE SIGN ASSEMBLY W/ TYPE III-A BARRICADE (24 LFT.) AND R11-2
- CONSTRUCTION ZONE
- ▨ DETOUR ROUTE

GENERAL NOTES

1. All maintenance of traffic devices, signs and pavement markings shall conform to the latest edition of the Indiana MUTCD.
2. See INDOT Std. Dwg. 801-TCDD-01 for sign spacing requirements and additional notes.
3. See INDOT Std. Dwg. 801-TCLG-01 for standard notes.
4. The cost of R11-2, R11-4 and XM4-10 (R or L) shall be included in the cost of the road closure sign assembly.
5. Type B construction warning lights shall be used with all signs located on barricades. Type A construction warning lights shall be used on all other construction signs.



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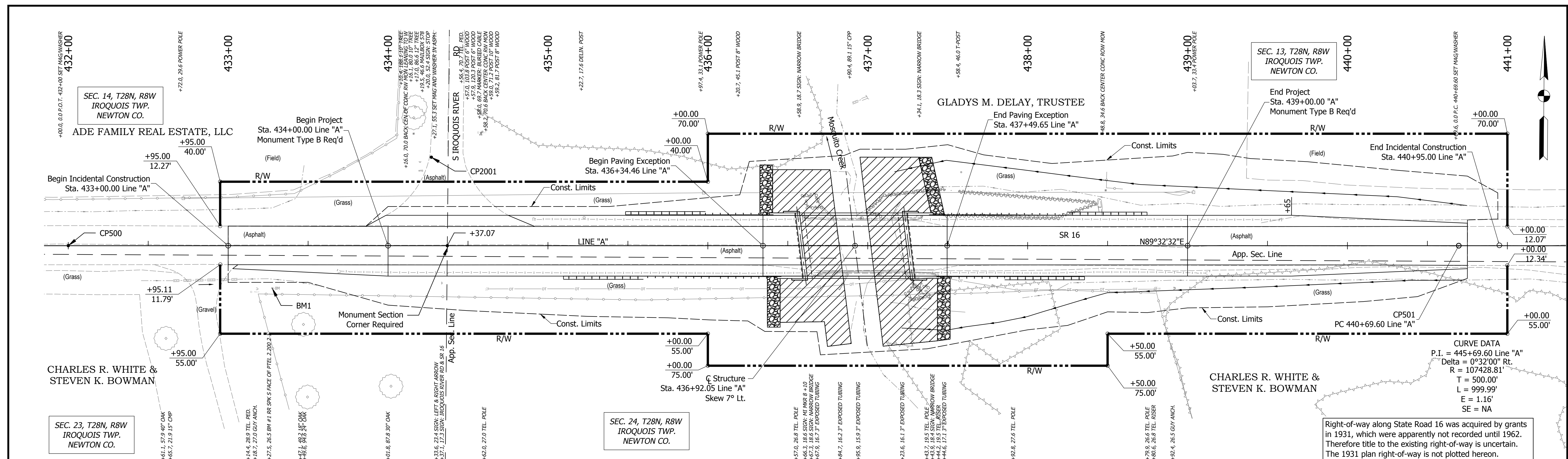
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DESIGNED: MDV	DRAWN: MDV	
CHECKED: BSS	CHECKED: BKA	

INDIANA  
DEPARTMENT OF TRANSPORTATION

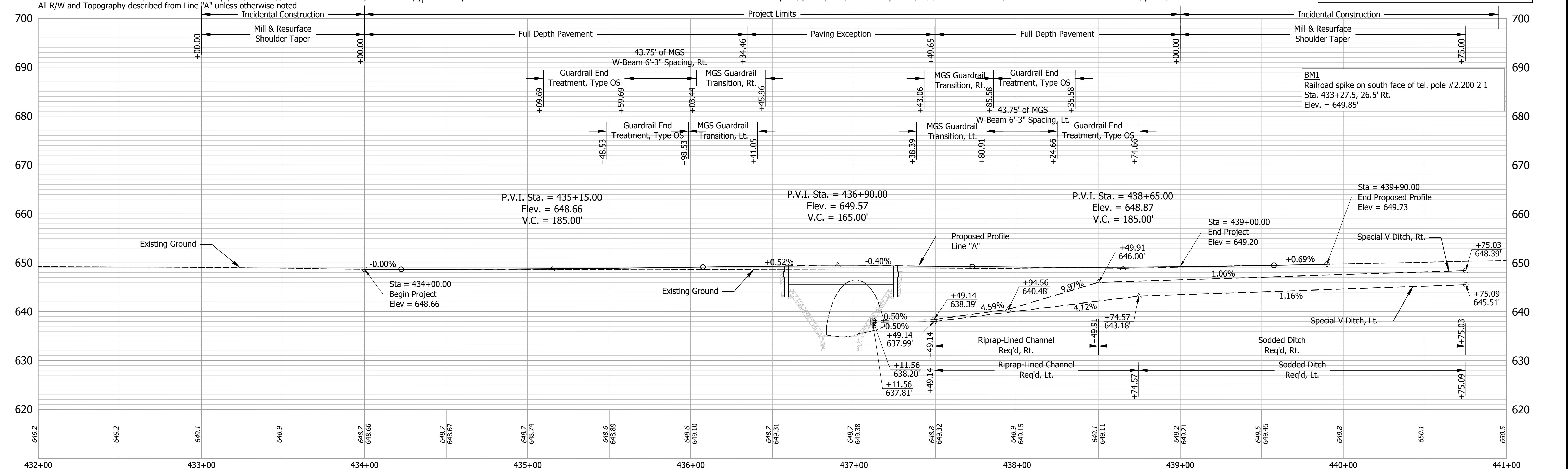
MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
1" = 3000'	010-56-10318
VERTICAL SCALE	DESIGNATION
N/A	1700075
SURVEY BOOK	SHEET
ELECTRONIC	# of 16
CONTRACT	PROJECT
B-40608	1700075



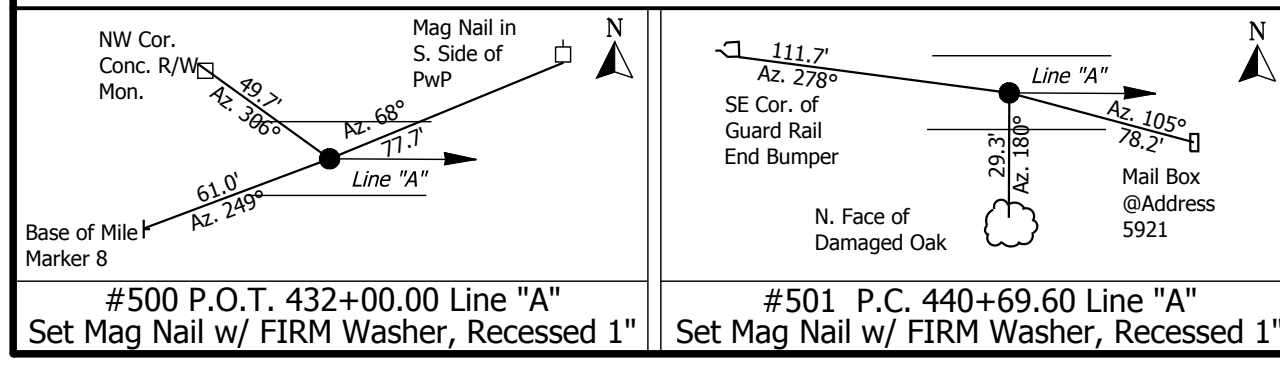


Right-of-way along State Road 16 was acquired by grants in 1931, which were apparently not recorded until 1962. Therefore title to the existing right-of-way is uncertain. The 1931 plan right-of-way is not plotted hereon.



BM1  
Railroad spike on south face of tel. pole #2.200 2 1  
Sta. 433+27.5, 26.5' Rt.  
Elev. = 649.85'

Date: May 11, 2019 12:55pm User: DGreen  
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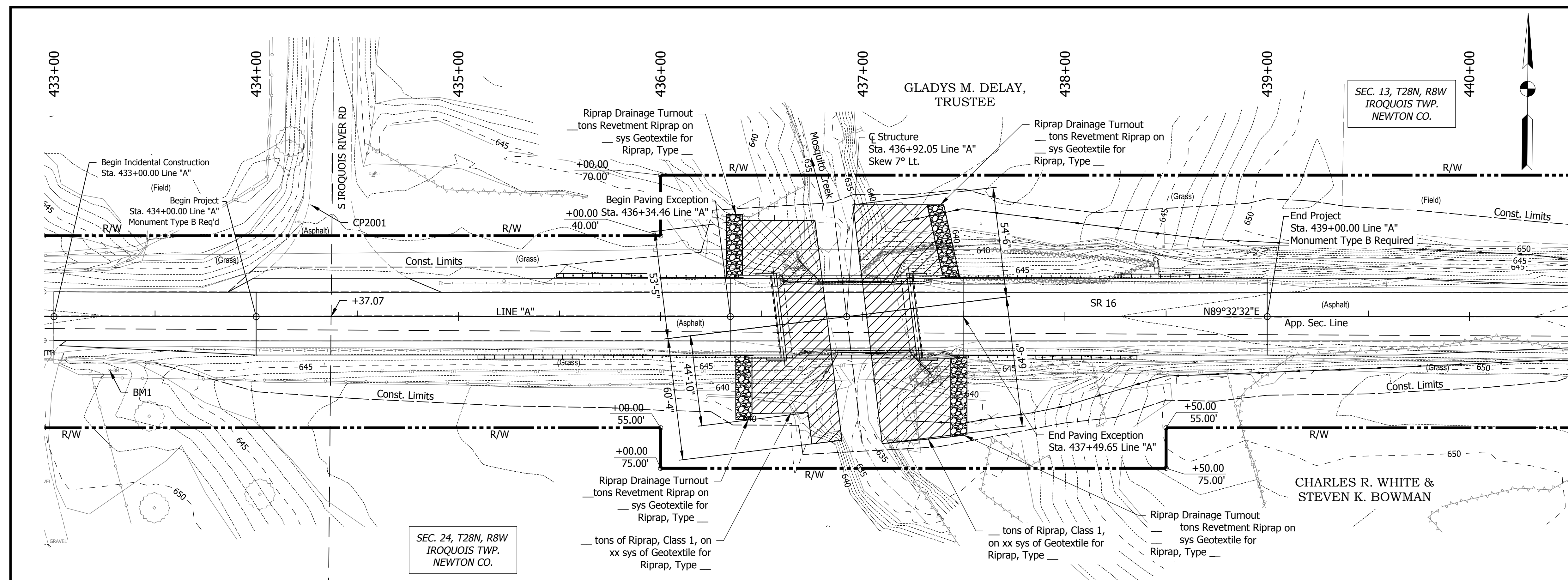


DESIGNED: BSS	DRAWN: BSS/NGC
CHECKED: BKA	CHECKED: BKA

**INDIANA DEPARTMENT OF TRANSPORTATION**

**PLAN AND PROFILE**  
**Line "A"**

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 016-56-10320
VERTICAL SCALE 1" = 10'	DESIGNATION 1700077
SURVEY BOOK	SHEET
ELECTRONIC 7 of 17	
CONTRACT B-40608	PROJECT 1700077



**EXISTING STRUCTURE**  
 The existing structure, 016-56-01238 A, is a single span reinforced concrete filled arch bridge built in 1931 with a 36' span and 32' clear roadway. Existing structure to be removed.

**HYDRAULIC DATA**

Drainage Area	23.80 SQ. MI.
Q100 Discharge	2,000.00 CFT./SEC.
Q100 Elevation	643.11 M.S.L.
Q100 Backwater	0.77 FT.
Q100 Velocity	7.75 FT./SEC.
Proposed Waterway Opening, Below Q100	278.48 SFT.
Low Structure Elevation	645.38 M.S.L.
Skew	7°00'00"
Existing Waterway Opening	210.69 SFT.
Existing Low Structure Elevation	646.50 M.S.L.
Existing Backwater	1.56 FT.

**HYDRAULIC SCOUR DATA**

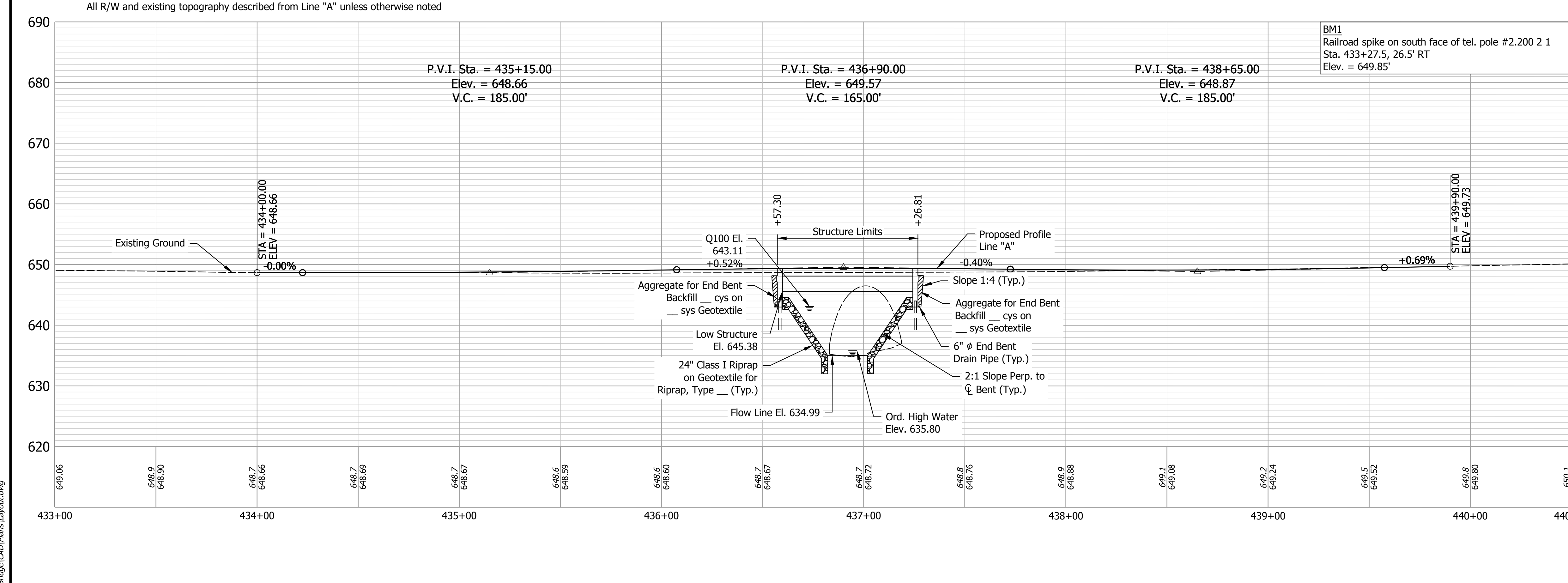
Q100 Discharge	2,000.00 CFT./SEC.
Q100 Elevation	643.11 M.S.L.
Q100 Scour Velocity	9.16 FT./SEC.
Q100 Contraction Scour Depth	5.74 FT.
Q100 Total Scour Depth	5.74 FT.
Q100 Low Scour Elevation	629.25 M.S.L.
Q500 Discharge	2,600.00 CFT./SEC.
Q500 Elevation	643.69 M.S.L.
Q500 Scour Velocity	10.89 FT./SEC.
Q500 Contraction Scour Depth	8.02 FT.
Q500 Total Scour Depth	8.02 FT.
Q500 Low Scour Elevation	626.97 M.S.L.

**EARTHWORK TABULATION**

FILL	___ cys
FILL + 15%	___ cys
COMMON EXCAVATION	___ cys
USABLE WATERWAY EXCAVATION	___ cys
BORROW	___ cys
TOTAL WATERWAY EXCAVATION	___ cys
EXCAVATION FOUNDATION UNCLASSIFIED	___ cys
BENCHING (ESTIMATED)	___ cys

No direct payment for Benching. Benching will not be paid for as Common Excavation.

- NOTES**
- See Plan and Profile Sheet for survey reference ties, approach work, incidental construction and additional details.
  - M.S.L. = Mean Sea Level
  - See Sheet 2 for utility owners



**COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGE**  
 1 SPAN: 67'-0"  
 38'-0" CLEAR ROADWAY; 7° SKEW LT.  
 SR 16 OVER MOSQUITO CREEK  
 NEWTON COUNTY

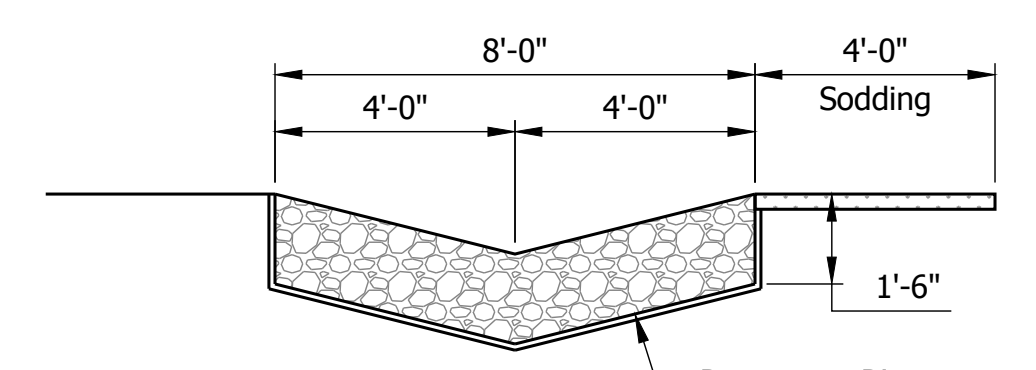
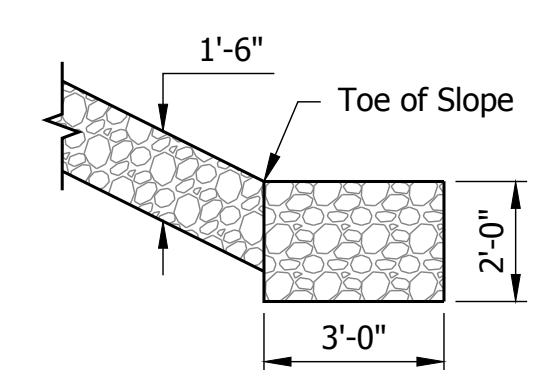
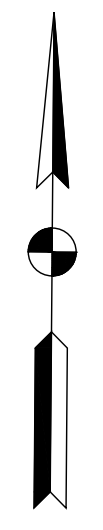
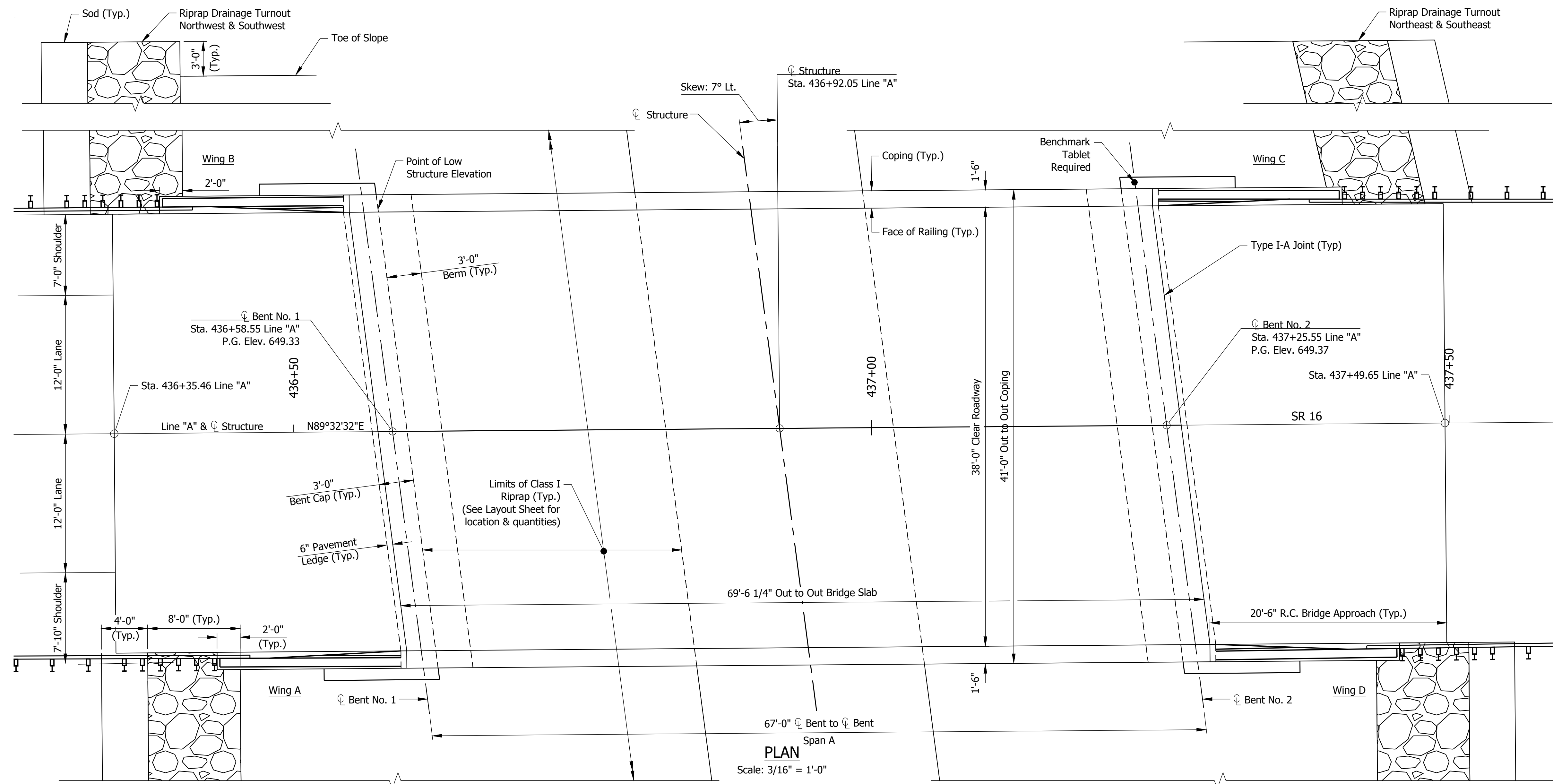
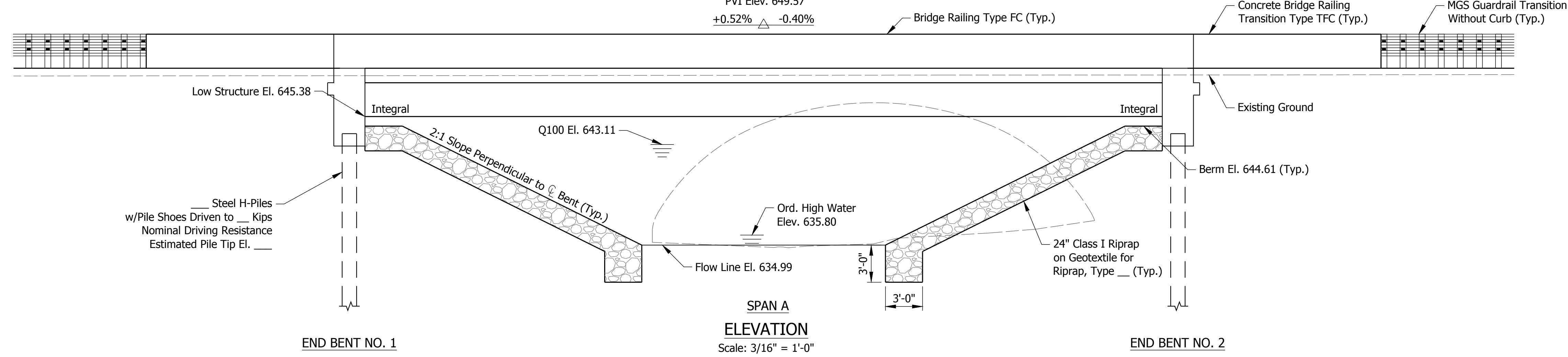
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CHECKED: A C S		CHECKED: E J G			
INDIANA DEPARTMENT OF TRANSPORTATION				BRIDGE FILE	
LAYOUT				016-56-10320	
				DESIGNATION	
				1700077	
				SHEET	
				8 of 17	
				PROJECT	
				1700077	

Date: Nov 11, 2019 12:56pm User: Name: DGreen  
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STRUCTURE TO BE BUILT ON A 165' VERTICAL CURVE

PVI Sta. 436+90.00  
 PVI Elev. 649.57  
 +0.52%  $\Delta$  -0.40%



RIPRAP TURNOUT DETAILS  
 Not to Scale

COMPOSITE PRESTRESSED CONCRETE  
 BOX BEAM BRIDGE  
 1 SPAN: 67'-0"  
 38'-0" CLEAR ROADWAY; 7° SKEW LT.  
 SR 16 OVER MOSQUITO CREEK  
 NEWTON COUNTY

Date: Nov 11, 2019, 12:57pm User Name: DGreen  
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EJK	DRAWN: DJG/ NG	
CHECKED: ACS	CHECKED: EJK	

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	016-56-10320
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1700077
SURVEY BOOK	SHEET
ELECTRONIC	9 of 17
CONTRACT	PROJECT
B-40608	1700077

**GENERAL NOTES**

Reinforcing steel cover shall be 2 1/2" in top and 1" minimum in bottom of floor slab, 3" in footings, except bottom steel which shall be 4", and 2" in all other parts, unless noted.

**DESIGN DATA**

Designed for HL-93 loading, in accordance with AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2017, and subsequent interims.

**DEAD LOAD**

Actual weight plus 35 lb/ft<sup>2</sup> for future wearing surface and 15 lb/ft<sup>2</sup> for permanent metal deck forms.

**FLOOR SLAB**

Designed with a 7 1/2" structural depth plus 1/2" sacrificial wearing surface.

**DESIGN STRESSES**

**CONCRETE**

Class C      f<sub>c</sub> = 4000 psi  
 Class B      f<sub>c</sub> = 3000 psi  
 Class A      f<sub>c</sub> = 3500 psi

**REINFORCING STEEL**

Grade 60      f<sub>y</sub> = 60,000 psi

**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 overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

**DECK FALSEWORK LOADS**

Designed for 15 lb/ft<sup>2</sup> for permanent metal stay-in-place deck forms, removable deck forms, and 2-ft exterior walkway.

**CONSTRUCTION LIVE LOAD**

Designed for 20 lb/ft<sup>2</sup> extending 2-ft past the edge of 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 the deck centered with the finishing machine.

**FINISHING-MACHINE LOAD**

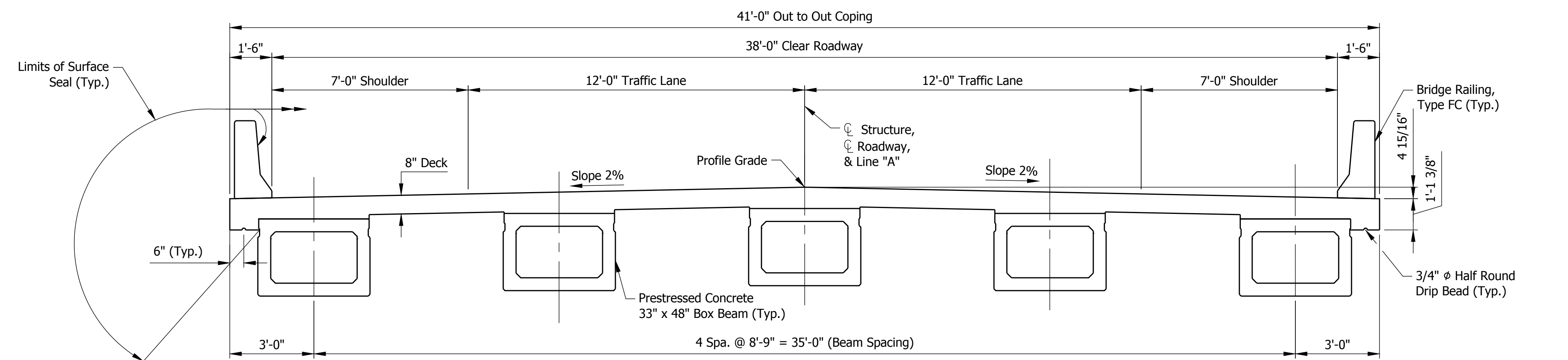
4500 lb distributed over 10 ft along the coping.

**WIND LOAD**

Designed for 70 mph horizontal wind loading in accordance with LRFD 3.8.1.

**SEISMIC DESIGN LOAD**

Seismic Design Category      x  
 Acceleration Coefficient      xx  
 Seismic Soil Profile Type      Class x



**TYPICAL SECTION**

Scale: 3/8" = 1'-0"

**COMPOSITE PRESTRESSED CONCRETE  
 BOX BEAM BRIDGE**  
 1 SPAN: 67'-0"  
 38'-0" CLEAR ROADWAY; 7° SKEW LT.  
 SR 16 OVER MOSQUITO CREEK  
 NEWTON COUNTY

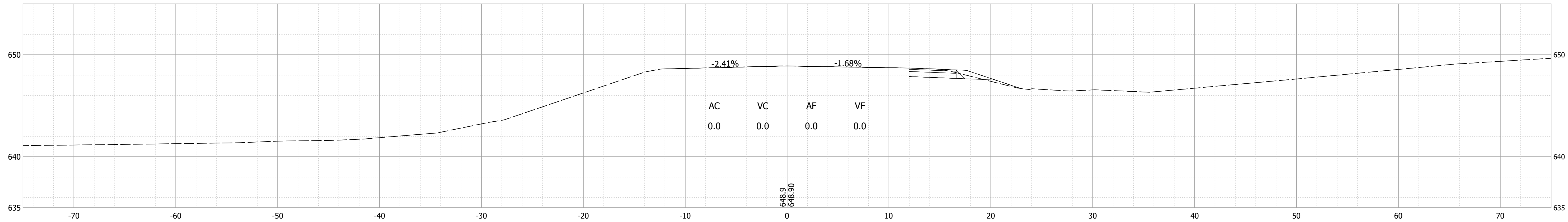
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
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CHECKED: ACS	CHECKED: EJM	

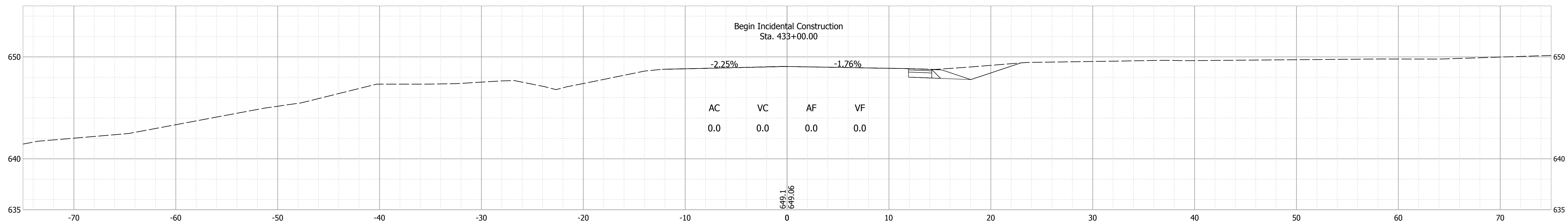
INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN	

HORIZONTAL SCALE	BRIDGE FILE
3/8" = 1'-0"	016-56-10320
VERTICAL SCALE	DESIGNATION
3/8" = 1'-0"	1700077
SURVEY BOOK	SHEET
ELECTRONIC	10 of 17
CONTRACT	PROJECT
B-40608	1700077

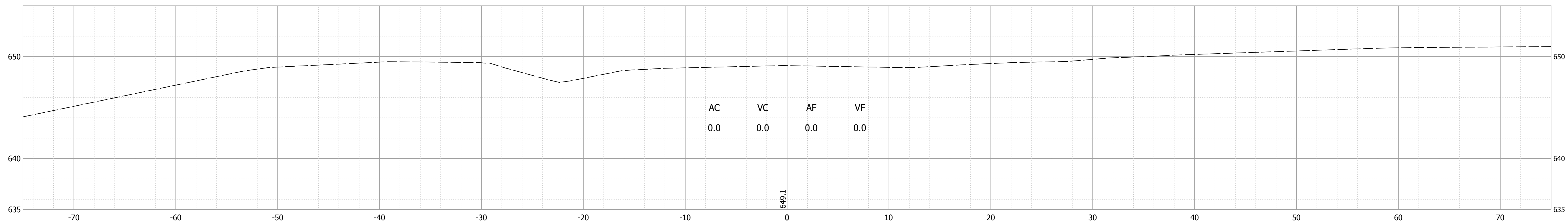
433+50



433+00



432+75



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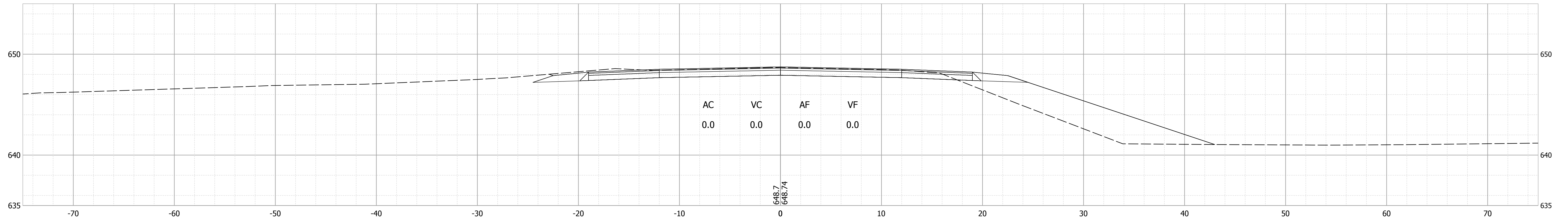
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CHECKED: BKA	CHECKED: BKA	

INDIANA  
DEPARTMENT OF TRANSPORTATION

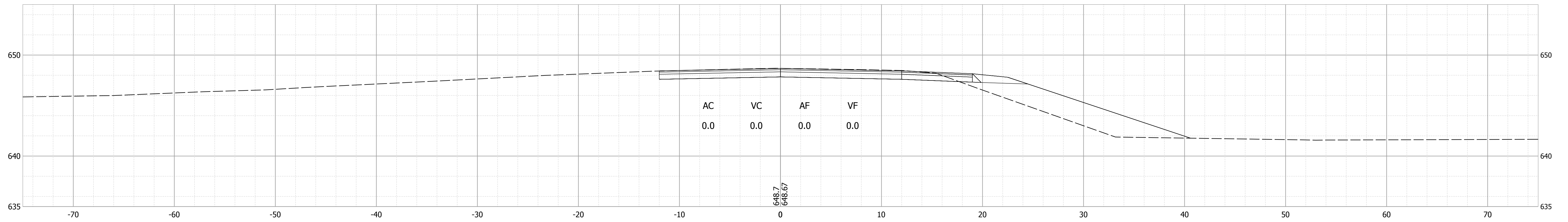
CROSS SECTIONS  
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 016-56-10320
VERTICAL SCALE 1" = 5'	DESIGNATION 1700077
SURVEY BOOK ELECTRONIC	SHEET 9 of 15
CONTRACT B-40608	PROJECT 1700077

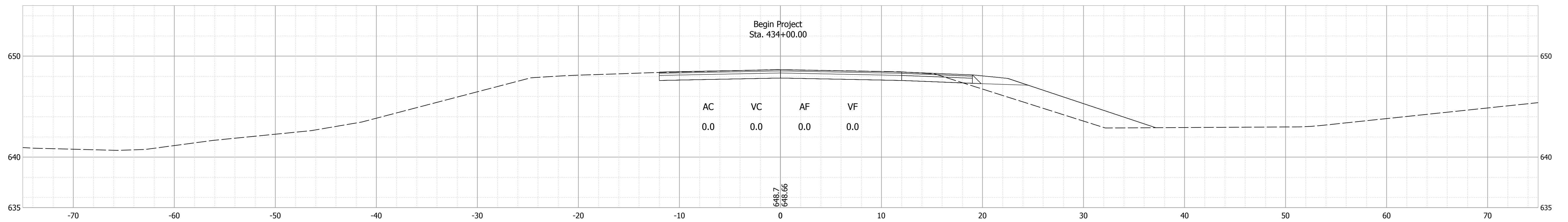
435+00



434+50



434+00



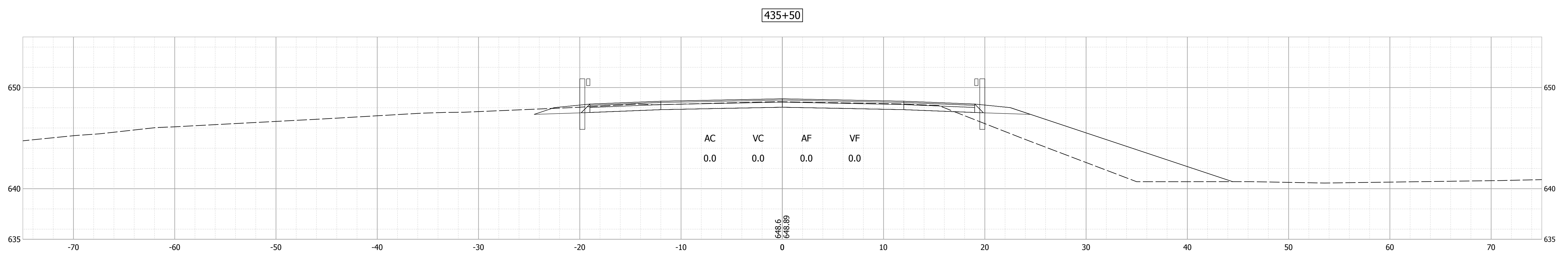
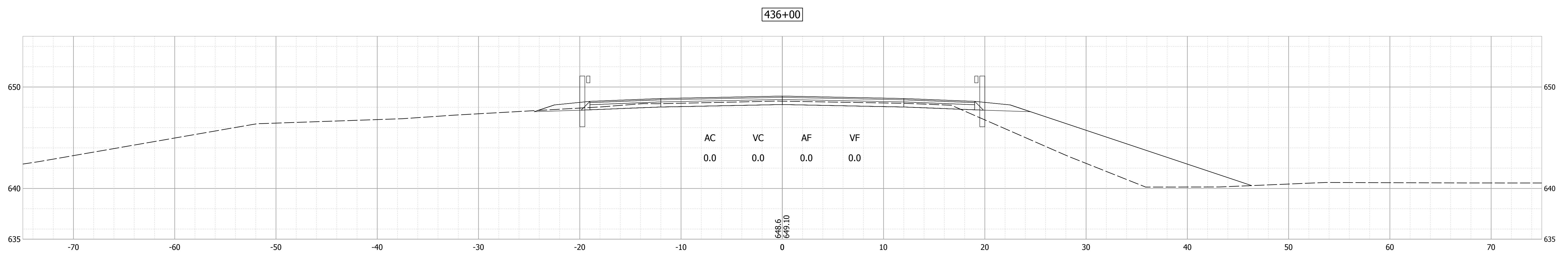
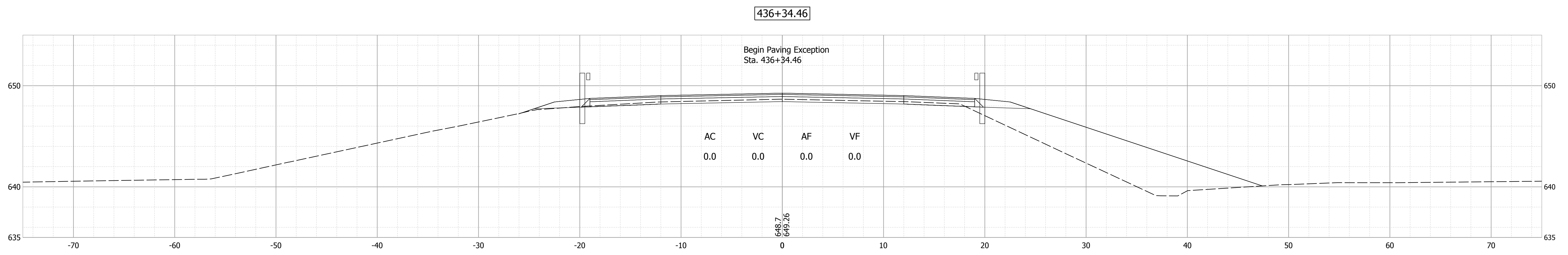
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE --/--
DESIGNED: BSS	DRAWN: BSS	
CHECKED: BKA	CHECKED: BKA	

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 016-56-10320
VERTICAL SCALE 1" = 5'	DESIGNATION 1700077
SURVEY BOOK ELECTRONIC	SHEET 10 of 15
CONTRACT B-40608	PROJECT 1700077



Date: Nov 11, 2019, 12:57pm User Name: DGreen  
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DESIGNED: BSS	DRAWN: BSS	
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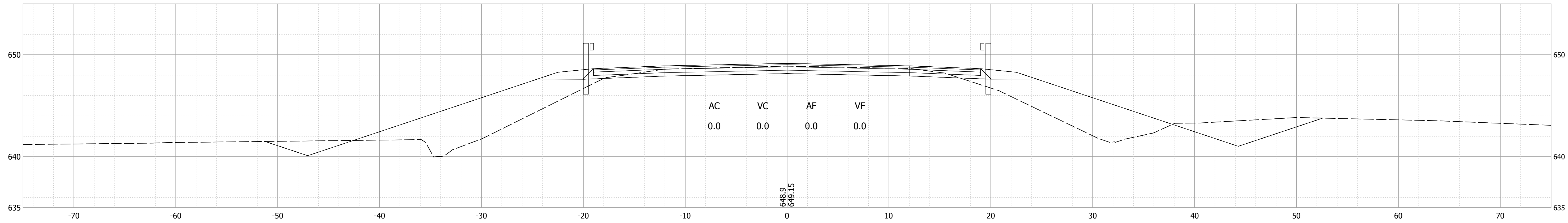
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DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
LINE "A"**

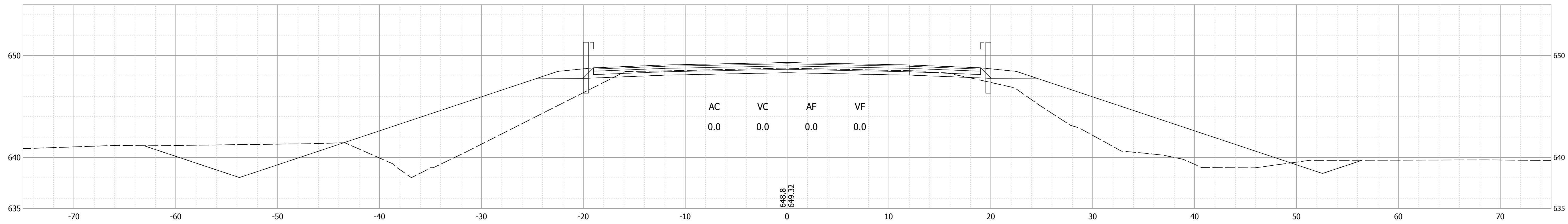
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VERTICAL SCALE 1" = 5'	DESIGNATION 1700077
SURVEY BOOK ELECTRONIC	SHEET 11 of 15
CONTRACT B-40608	PROJECT 1700077



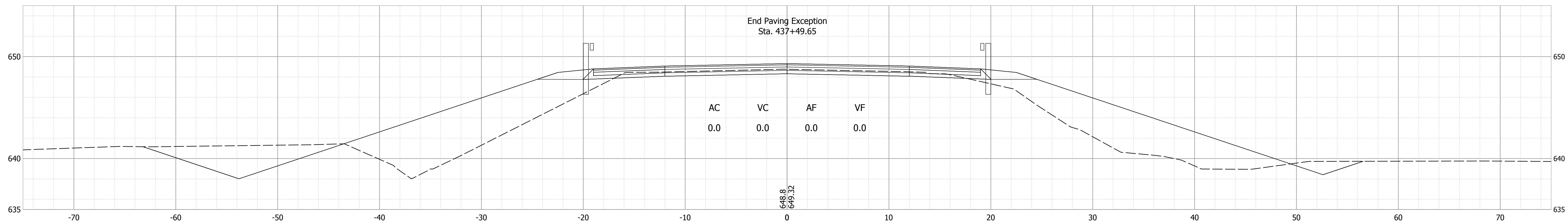
438+00



437+50



437+49.65



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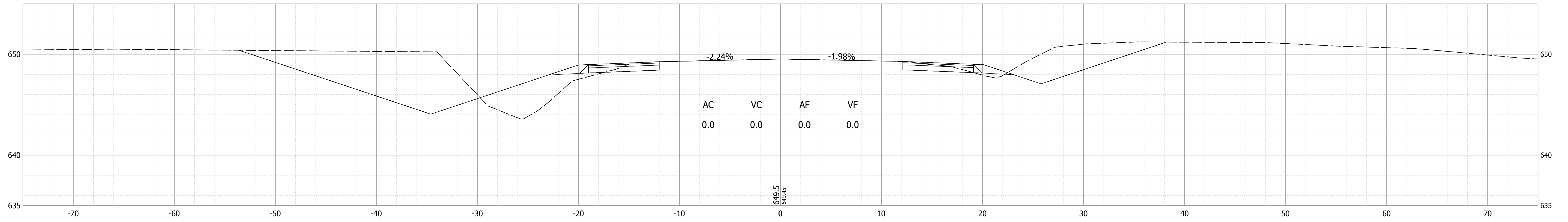
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DESIGNED: BSS	DRAWN: BSS	
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INDIANA  
DEPARTMENT OF TRANSPORTATION

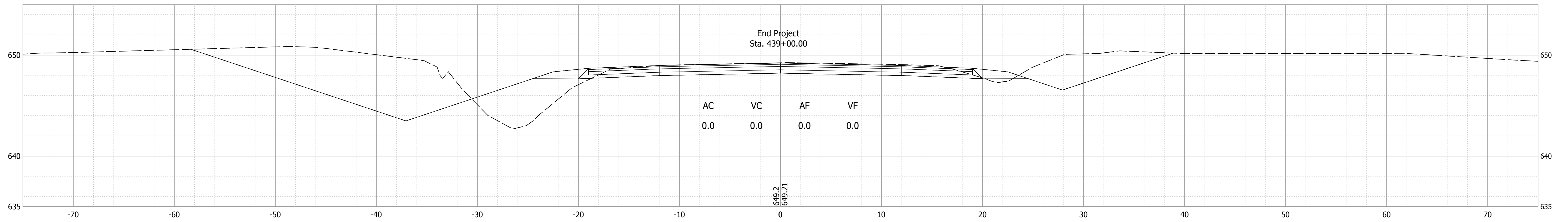
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LINE "A"**

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VERTICAL SCALE 1" = 5'	DESIGNATION 1700077
SURVEY BOOK ELECTRONIC	SHEET 12 of 15
CONTRACT B-40608	PROJECT 1700077

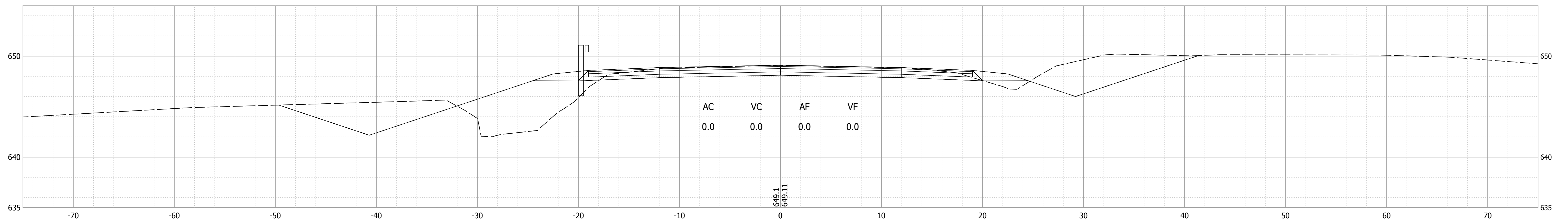
439+50



439+00



438+50



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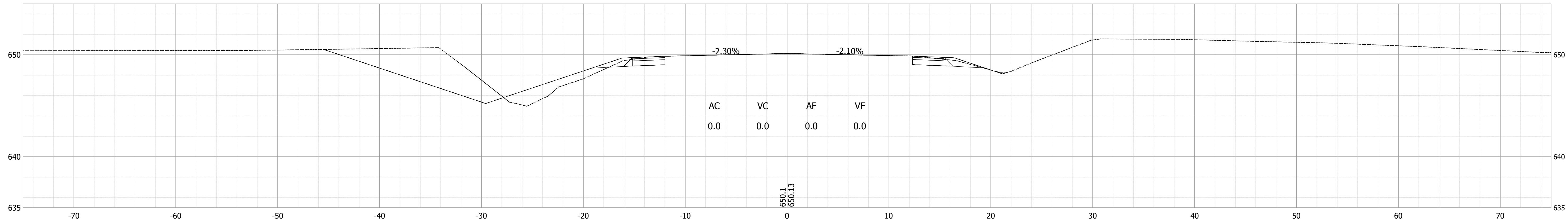
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INDIANA  
DEPARTMENT OF TRANSPORTATION

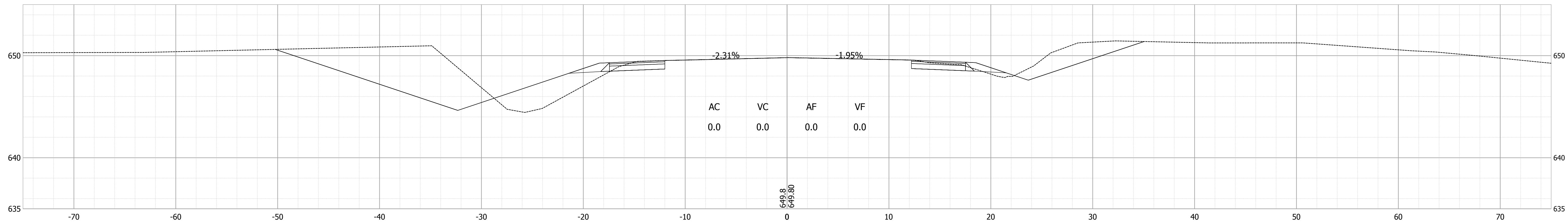
CROSS SECTIONS  
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 016-56-10320
VERTICAL SCALE 1" = 5'	DESIGNATION 1700077
SURVEY BOOK ELECTRONIC	SHEET 13 of 15
CONTRACT B-40608	PROJECT 1700077

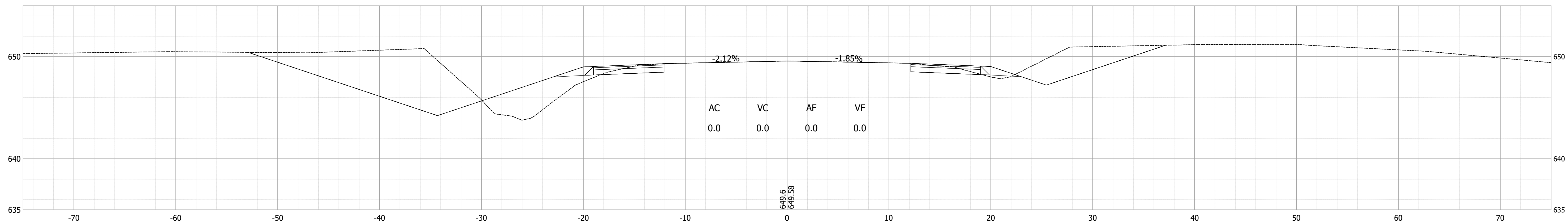
440+50



440+00



439+65



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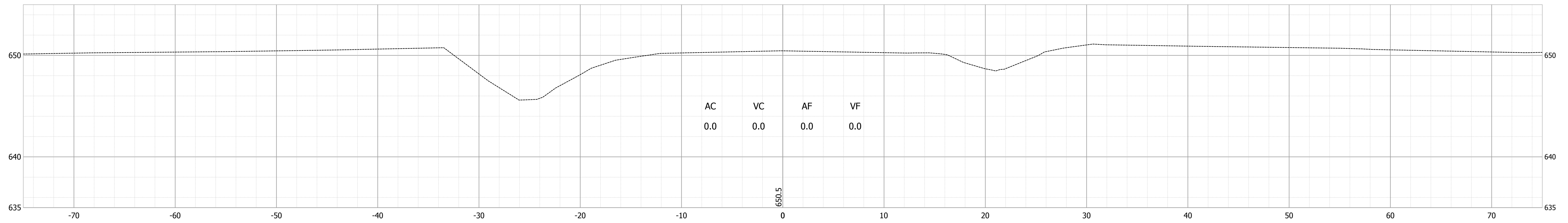
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INDIANA  
DEPARTMENT OF TRANSPORTATION

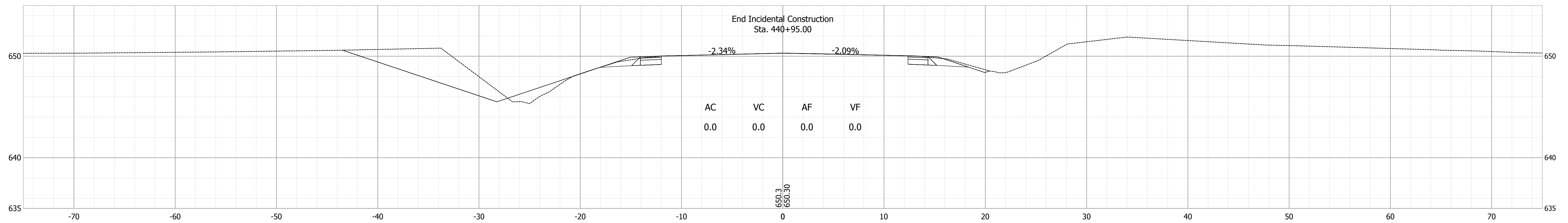
**CROSS SECTIONS  
LINE "A"**

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 016-56-10320
VERTICAL SCALE 1" = 5'	DESIGNATION 1700077
SURVEY BOOK ELECTRONIC	SHEET 14 of 15
CONTRACT B-40608	PROJECT 1700077

441+00



440+75



Date: Nov 11, 2019, 12:58pm User Name: DGreen  
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE --/--
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CHECKED: _____ BKA _____	CHECKED: _____ BKA _____	

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 016-56-10320
VERTICAL SCALE 1" = 5'	DESIGNATION 1700077
SURVEY BOOK ELECTRONIC	SHEET 15 of 15
CONTRACT B-40608	PROJECT 1700077