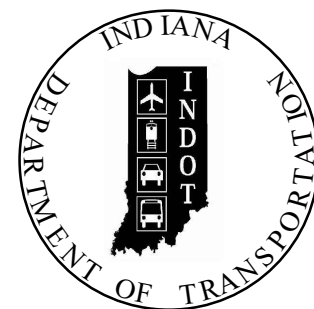


PROJECT	DESIGNATION
1800155	1800155
CONTRACT	BRIDGE FILE
R-41588	N/A

CULVERT ASSETS	
Des. No.	Culvert Asset ID
1800155	CV-234-054-46.50

CONTRACT B-41588 KIN DES. NUMBERS	
1800153 (LEAD)	CV-234-032-49.73
1800154	CV-234-054-46.02
1800155	CV-234-054-46.50

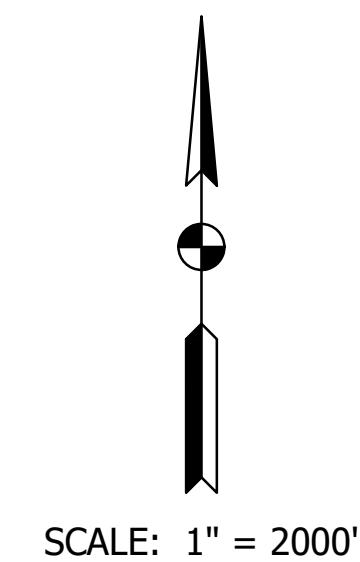
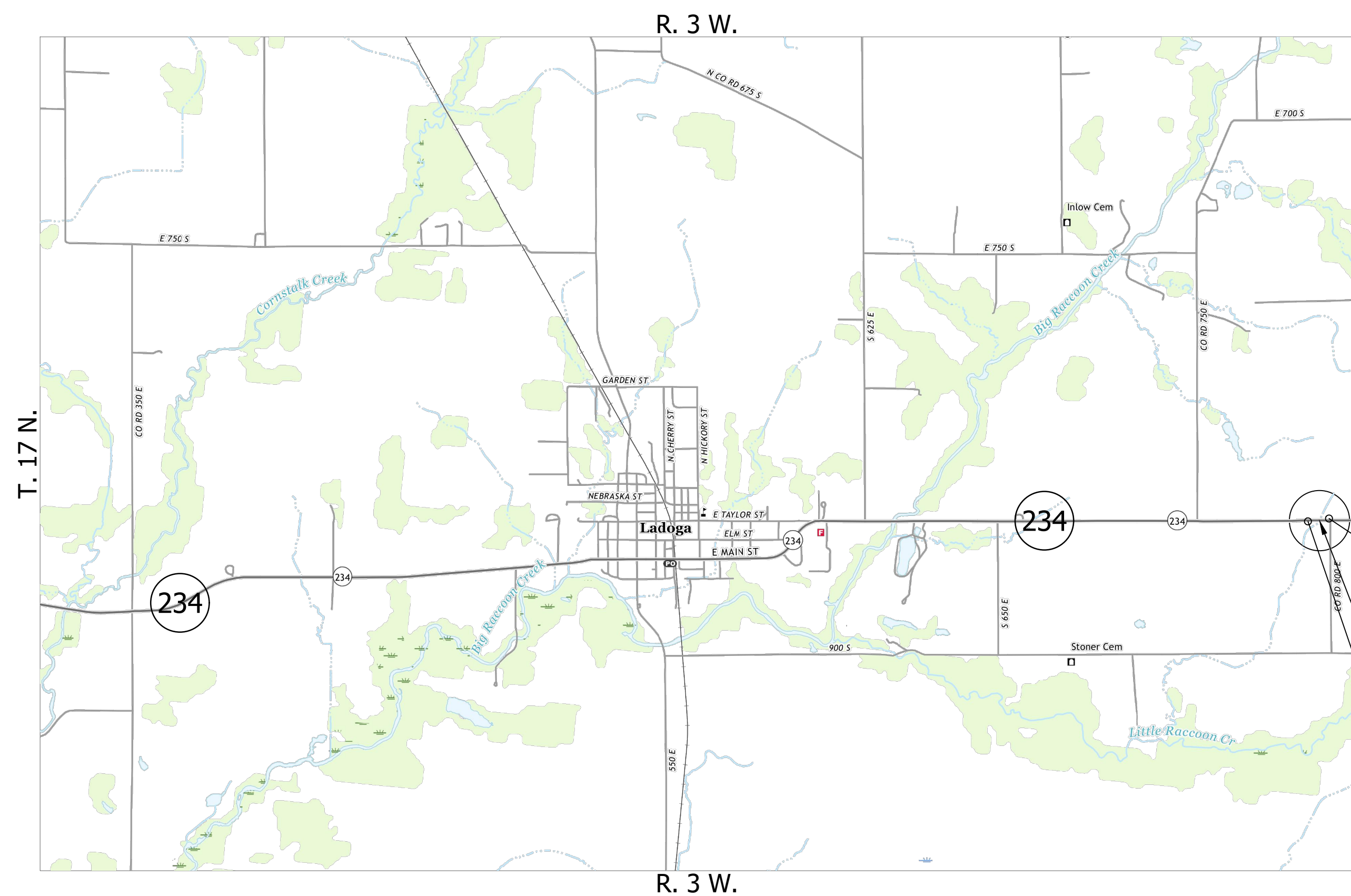
INDIANA DEPARTMENT OF TRANSPORTATION



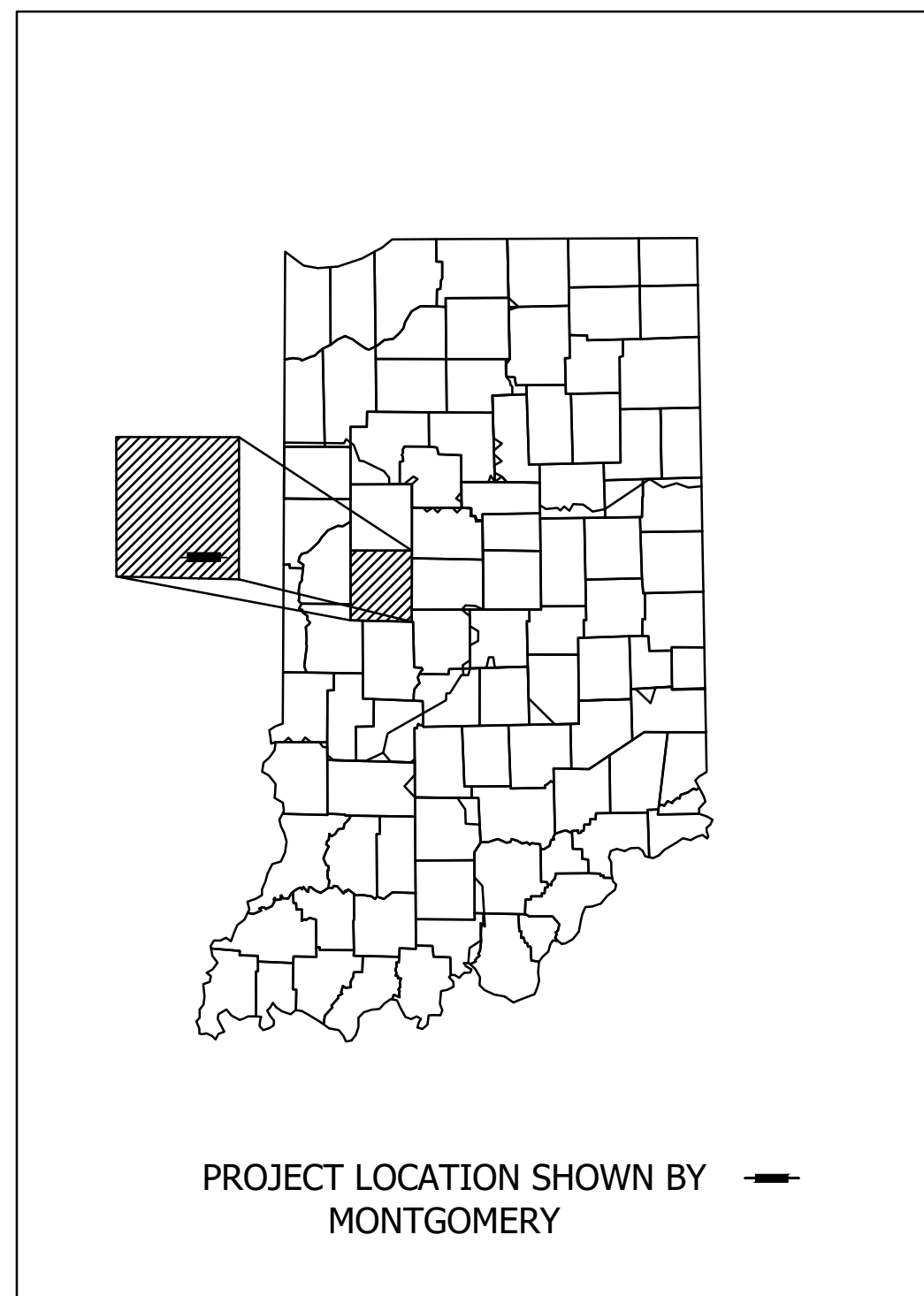
ROAD PLANS

ROUTE: SR 234 AT: RP 46+50
 PROJECT NO. 1800155 P.E.
 1800155 R/W
 1800155 CONST.

Small Structure Replacement on SR 234 over Unnamed Tributary to Little Raccoon Creek, Located 6.55 Miles West of SR 75, Sections 16, Township 17 North, Range 3 West, Clark Township, Montgomery County, Indiana.



TRAFFIC DATA		
A.A.D.T. (2022)		1,826 V.P.D.
A.A.D.T. (2042)		2,112 V.P.D.
D.H.V (2042)		185 V.P.H.
DIRECTIONAL DISTRIBUTION		50 %
TRUCKS		190 A.A.D.T.
		9.0 % A.A.D.T.
DESIGN DATA		
DESIGN SPEED		55 M.P.H.
PROJECT DESIGN CRITERIA		3R (Non-Freeway)
FUNCTIONAL CLASSIFICATION		RURAL COLLECTOR
RURAL/URBAN		RURAL
TERRAIN		LEVEL
ACCESS CONTROL		N/A



LATITUDE: 39° 54' 56.6" N LONGITUDE: 86° 45' 10.0" W

BRIDGE LENGTH:	0.000	MI.
ROADWAY LENGTH:	0.079	MI.
TOTAL LENGTH:	0.079	MI.
MAX. GRADE:	1.37	%

HUC: 051201081206

**STAGE 1
PLANS SUBMITTAL**
11/06/2020

LOCATION MAP MONTGOMERY COUNTY

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

NOT FOR CONSTRUCTION

PLANS PREPARED BY:	Infrastructure Engineering, Inc.	317-243-9800 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

	BRIDGE FILE	
	N/A	
	DESIGNATION	
	1800155	
SURVEY BOOK	SHEETS	
ELECTRONIC	1 of 14	
CONTRACT	PROJECT	
R-41588	1800155	

UTILITIES

Telecommunication
 AT&T Distribution
 240 North Meridian Street, Room 1791
 Indianapolis, IN 46204
 Matt Spindler
 ms4822@att.com
 317-265-3050

Electric
 Hendricks Power Cooperative
 PO Box 309
 Danville, IN 46122
 Jason Stewart
 jstewart@hendrickspower.com
 Steve Luckey
 sluckey@hendrickspower.com
 317-745-5473



**Know what's below.
 Call before you dig.**

INDIANA UNDERGROUND
 1-800-382-5544 OR CALL 811
 24 HOURS A DAY 7 DAYS A WEEK

INDEX	
SHEET NO.	SUBJECT
1	TITLE
2	INDEX
3	TYPICAL SECTIONS
4	DETOUR
5	PLAN AND PROFILE
6	GENERAL PLAN
7	ROADWAY SUMMARY TABLES
8 - 14	ROADWAY CROSS SECTIONS

REVISIONS

SHEET NO.	DATE	REVISED

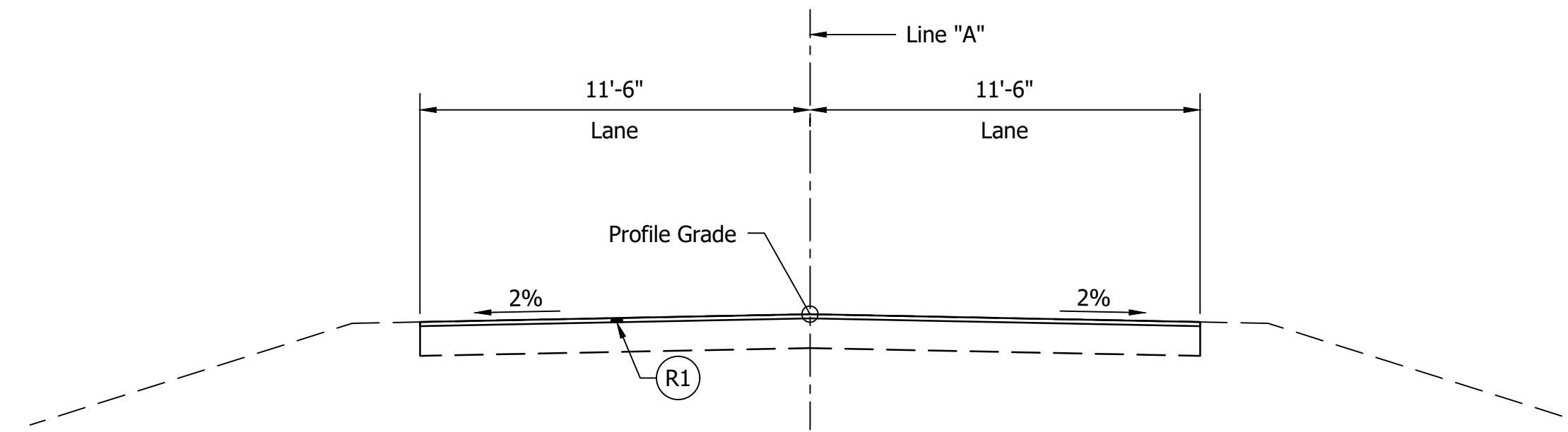
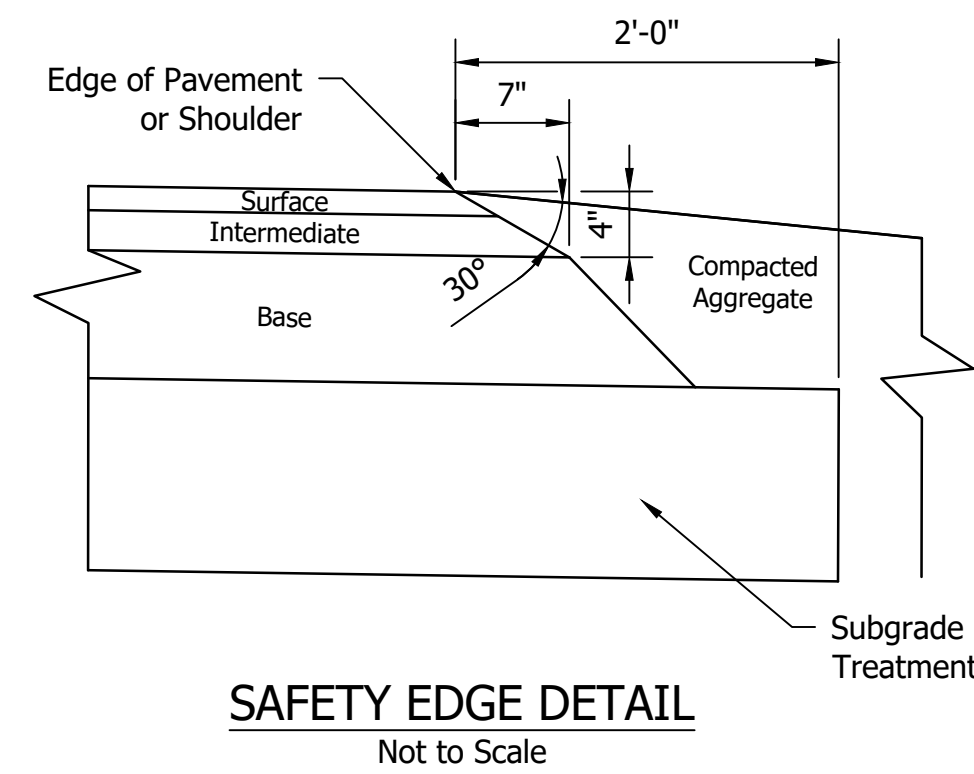


NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: EAS	11/2020	DRAWN: EAS	11/2020		
CHECKED: NDB	11/2020	CHECKED: DSB	11/2020		

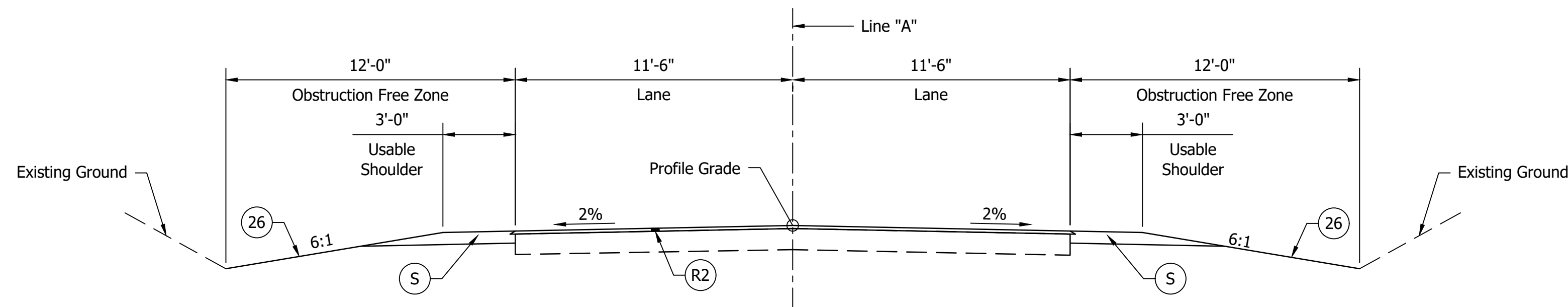
INDIANA DEPARTMENT OF TRANSPORTATION	
INDEX	

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1800155
SURVEY BOOK	SHEET
ELECTRONIC	2 of 14
CONTRACT	PROJECT
R-41588	1800155



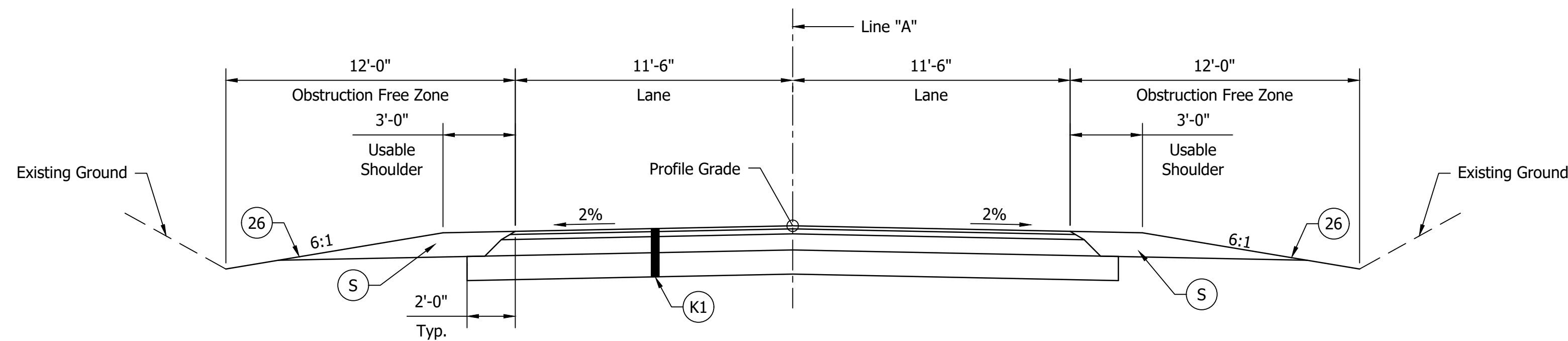
TRANSITION PAVEMENT

Scale: 1/4" = 1'-0"
 Sta. 130+00.00 to Sta. 131+00.00
 Sta. 135+20.00 to Sta. 136+20.00



WIDENING AND OVERLAY

Scale: 1/4" = 1'-0"
 Sta. 131+00.00 to Sta. 135+95.00
 Sta. 133+25.00 to Sta. 135+20.00



FULL DEPTH PAVEMENT

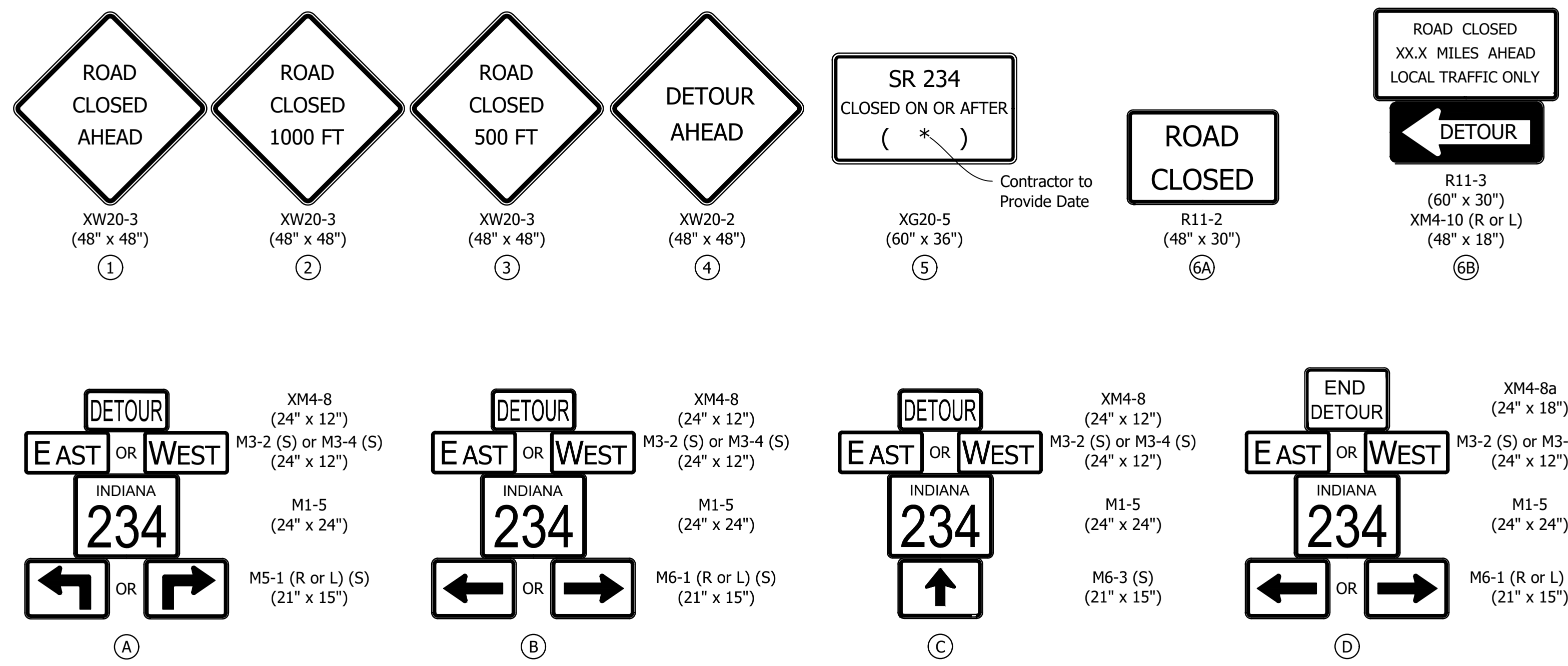
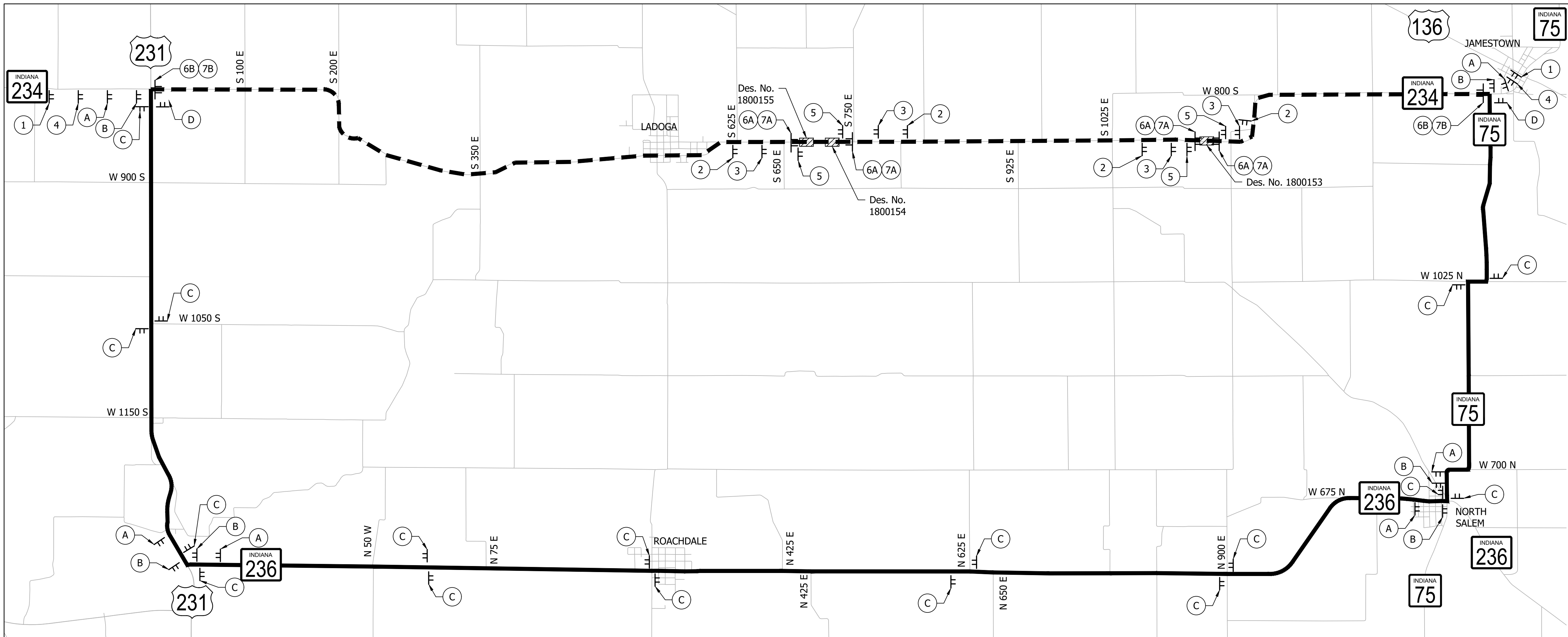
Scale: 1/4" = 1'-0"
 Sta. 132+95.00 to Sta. 133+25.00

LEGEND

- (R1) Transition mill existing pavement then overlay with 165 lbs/sys QC/QA-HMA, 3, 70, Surface, 9.5 mm
- (R2) 165 lbs/sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on Variable Depth QC/QA-HMA, 2, 70, Intermediate, 19.0 mm on Existing HMA Pavement, Milled 1.5"
- (K1) 165 lbs/sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 lbs/sys QC/QA-HMA, 3, 70, Intermediate, 19.0 mm on 880 lbs/sys QC/QA-HMA, 3, 64, Base, 19.0 mm on Subgrade Treatment, Type IC
- (S) Compacted Aggregate, No. 53
- (26) Mulched Seeding, R

NOTES
 - All stationing along Line "A"

NOT FOR CONSTRUCTION	RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
	DESIGN ENGINEER		DATE		AS NOTED		N/A	
	DESIGNED: EAS	11/2020	DRAWN: EAS	11/2020	VERTICAL SCALE		DESIGNATION	
	CHECKED: NDB 11/2020		CHECKED: DSB 11/2020		N/A		1800155	
TYPICAL SECTIONS				SURVEY BOOK		SHEET		
				ELECTRONIC		3 of 14		
				CONTRACT		PROJECT		
				R-41588		1800155		



CONSTRUCTION SIGN SUMMARY TABLE				
SYMBOL	MESSAGE	NUMBER	TYPE	REQ'D
X (A, B, C, D)	DETOUR ROUTE MARKER ASSEMBLY	DRMA		31 EA
1	ROAD CLOSED AHEAD	XW20-3	A	2 EA
2	ROAD CLOSED 1000 FEET	XW20-3	A	4 EA
3	ROAD CLOSED 500 FEET	XW20-3	A	4 EA
4	DETOUR AHEAD	XW20-2	A	2 EA
5	SR 234 CLOSED ON OR AFTER	XG20-5	C	4 EA
6A	ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED" (R11-2), AND TYPE B LIGHTS	RCSA		4 EA
6B	ROAD CLOSURE SIGN ASSEMBLY, "ROAD CLOSED - LOCAL TRAFFIC ONLY" (R11-3), DETOUR ARROW (XM4-10), AND TYPE B LIGHTS	RCSA		2 EA
7A	BARRICADE (24 LFT EACH)	BARR	III-A	96 LFT
7B	BARRICADE (24 LFT EACH)	BARR	III-B	48 LFT

- NOTES**
- Refer to INDOT Std. Drawing 801-TCDDT-01 and 801-TCDDT-04 for sign assembly and spacing.
 - Contractor to maintain access to all properties at all times during construction including temporary stone, steel plating, barricades, lights, barrels, etc. as needed to maintain drivable access around the active construction site.
 - Contractors shall submit to INDOT, a plan for work operations and traffic control plan.
 - Road closure signage is shown in approximate locations, Contractor shall adjust as needed.
 - The Contractor shall furnish and maintain in proper working order, all construction signs, lights, channelizing devices, and all other traffic control devices.
 - All signs shall be positioned toward the on-coming traffic within the right-of-way on the side of the road or street shown, unless otherwise noted.
 - Advanced notice of route closure signs (Type C), 2 total, shall be placed 14 days prior to the start of construction. The signs shall be removed when the route is closed for construction.

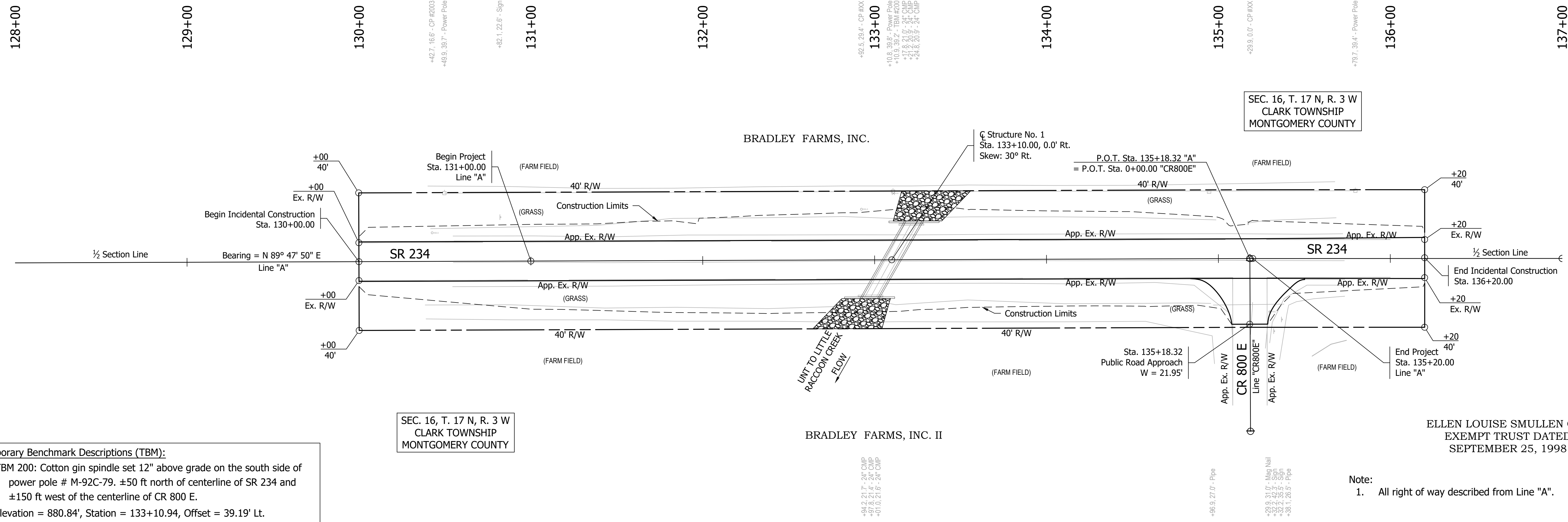
LEGEND	
	Road to be closed during construction
	Proposed detour route
	Construction Area
	Construction sign type a with low intensity flashing yellow light
	Type III-A/III-B barricades as required

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EAS	11/2020	DRAWN: EAS 11/2020
CHECKED: NDB	11/2020	CHECKED: DSB 11/2020

INDIANA DEPARTMENT OF TRANSPORTATION	
DETOUR	

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1800155
SURVEY BOOK	SHEET
ELECTRONIC	4 of 14
CONTRACT	PROJECT
R-41588	1800155

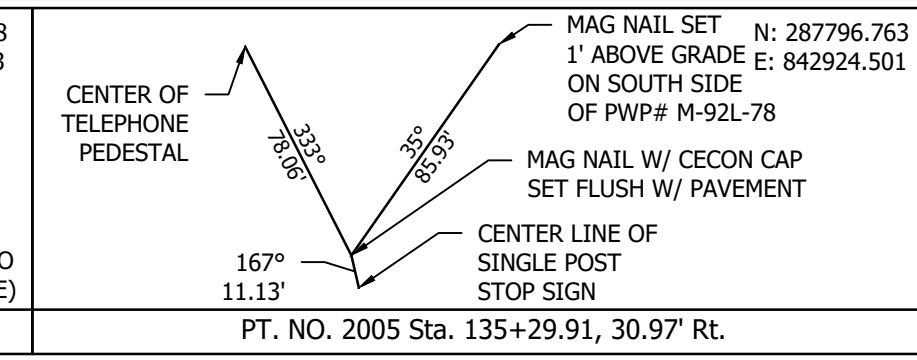
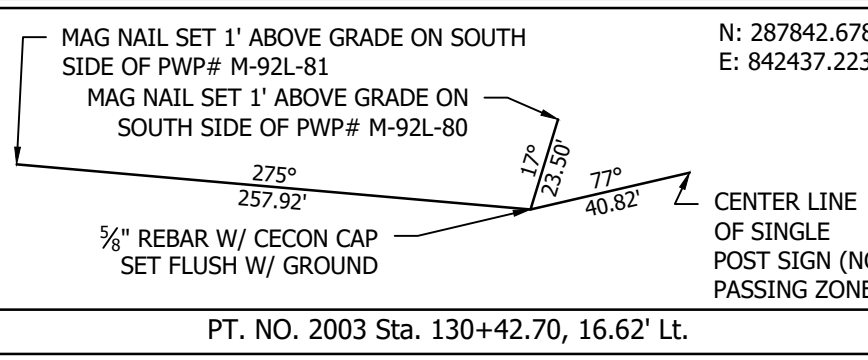
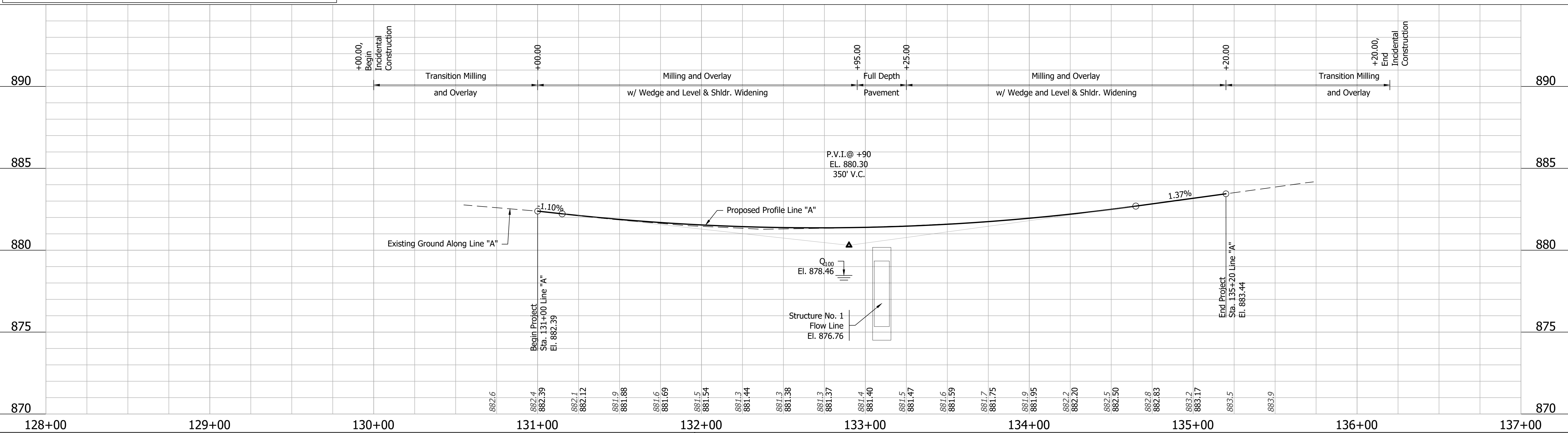


Temporary Benchmark Descriptions (TBM):
 TBM 200: Cotton gin spindle set 12" above grade on the south side of power pole # M-92C-79. ±50 ft north of centerline of SR 234 and ±150 ft west of the centerline of CR 800 E.
 Elevation = 880.84', Station = 133+10.94, Offset = 39.19' Lt.

SEC. 16, T. 17 N, R. 3 W
 CLARK TOWNSHIP
 MONTGOMERY COUNTY

ELLEN LOUISE SMULLEN GST
 EXEMPT TRUST DATED
 SEPTEMBER 25, 1998

Note:
 1. All right of way described from Line "A".



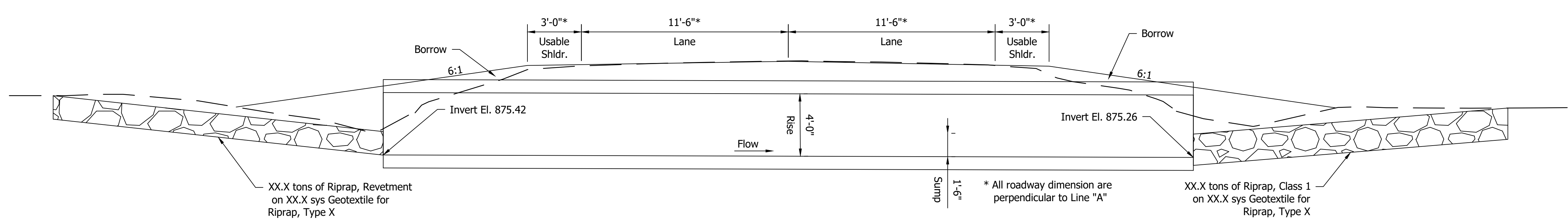
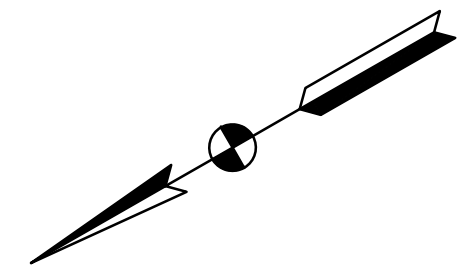
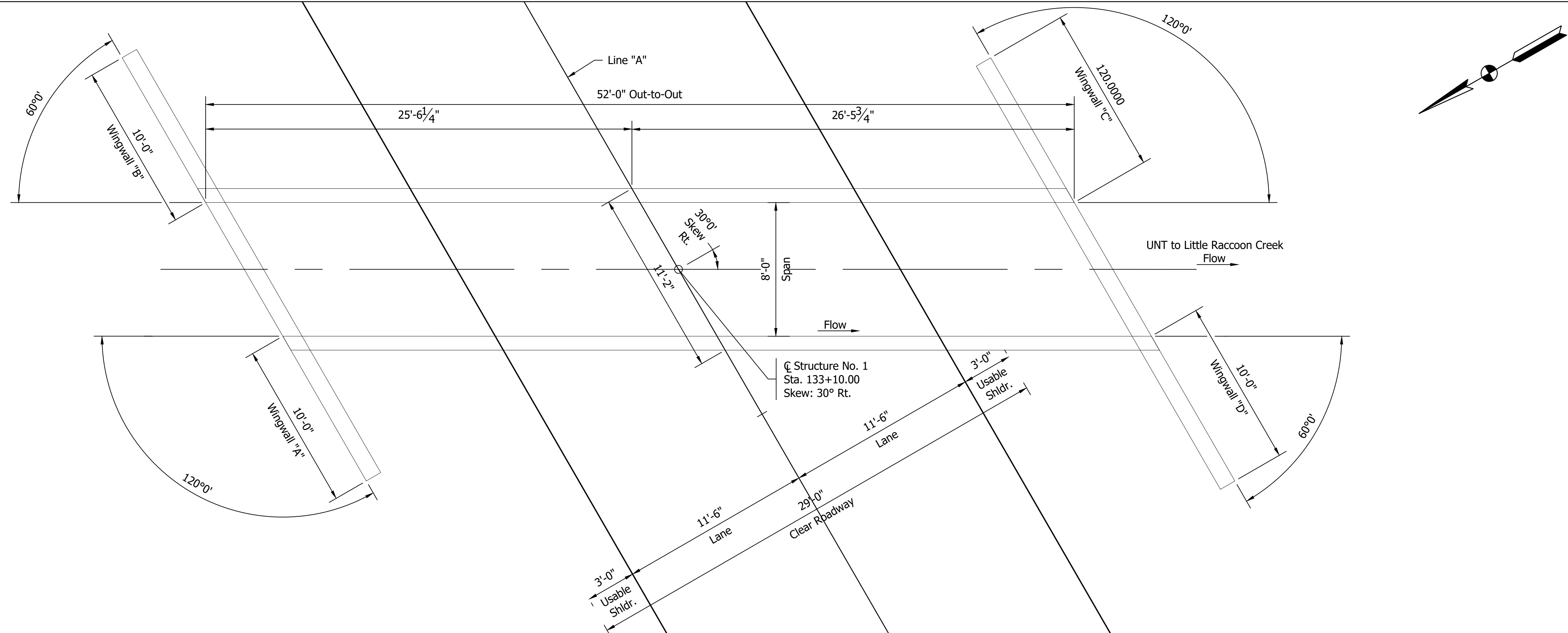
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EAS	11/2020	DRAWN: EAS 11/2020
CHECKED: NDB	11/2020	CHECKED: DSB 11/2020

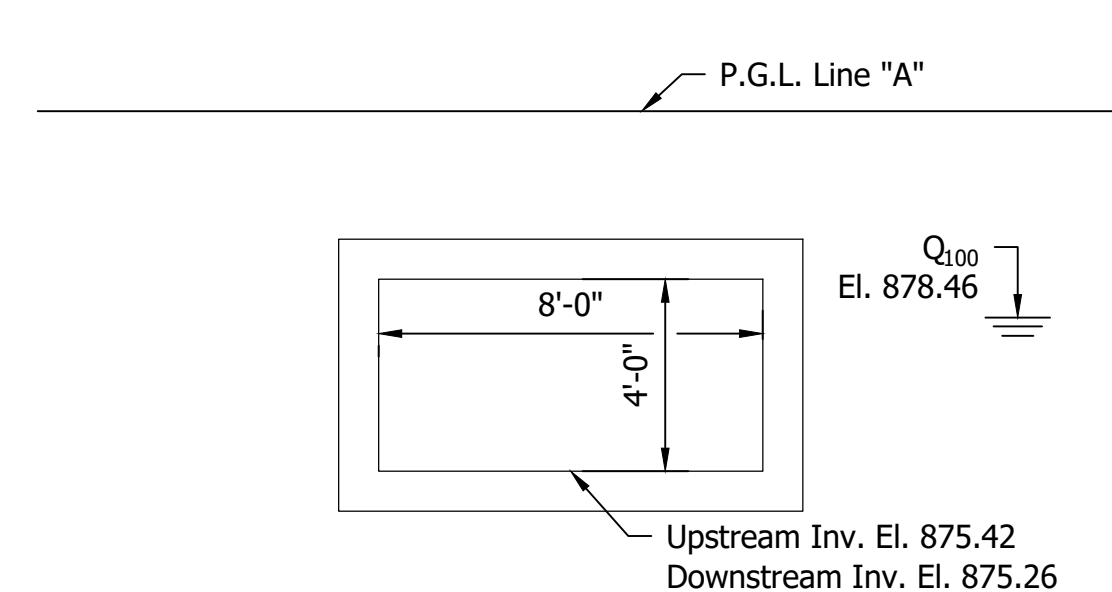
INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 3'	DESIGNATION 1800155
SURVEY BOOK ELECTRONIC	SHEET 5 of 14
CONTRACT R-41588	PROJECT 1800155



TYPICAL SECTION ALONG CL OF STRUCTURE
 Scale: 1/4" = 1'-0"



ELEVATION
 Scale: 1/4" = 1'-0"

HYDRAULIC DATA

Drainage Area	123.98 acres
Q _{1%} EP Discharge	167.78 cfs
Q _{4%} EP Discharge	132.16 cfs
Elevation at Q _{1%} EP	878.46 ft
Headwater Elevation at Q _{1%} EP	881.28 ft
Headwater Elevation at Q _{4%} EP	880.80 ft
Backwater at Q _{1%} EP	2.82 ft
Minimum Low Structure	879.26 ft
Existing Headwater Elevation at Q _{1%} EP	881.56 ft
Existing Headwater Elevation at Q _{4%} EP	881.47 ft
Existing Backwater at Q _{1%} EP	3.10 ft
Existing Low Structure	878.76 ft

EARTHWORK TABULATION

Fill +20%	XXX cys
Common Excavation (80%)	XXX cys
Usable Waterway Excavation (70%)	XXX cys
Surplus Foundation Excavation	XXX cys
Waste (Borrow)	XXX cys
Total Waterway Excavation	XXX cys
Excavation Unclassified	XXX cys
Benching (Estimated)	XXX cys
No direct payment for Benching. Benching will not be paid for as Common Excavation.	

DESIGN DATA

LIVE LOAD
 Structure shall be designed from HL-93 loading, in accordance with AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2017, and its subsequent interims.

DEAD LOAD
 Actual dead load plus 35 lb/ft² for future wearing surface.

REINFORCED CONCRETE BOX CULVERT
 Span: 8'-0", Rise: 4'-0"
 Skew: 30° 0' Rt.
 SR 234 over UNT to Little Raccoon Creek,
 Montgomery County, Indiana

NOTE TO REVIEW
 Coordination with geotechnical is ongoing and the geotextile type will be determined in a later submittal.

NOTE TO REVIEW
 Earthwork, riprap, and geotextile quantities will be provided in a later submittal.

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL			
DESIGN ENGINEER		DATE	
DESIGNED: EAS	11/2020	DRAWN: EAS	11/2020
CHECKED: NDB	11/2020	CHECKED: DSB	11/2020

INDIANA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
AS NOTED	1800155
SURVEY BOOK	SHEET
ELECTRONIC	6 of 14
CONTRACT	PROJECT
R-41588	1800155

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				HMA FOR ROADS							ASPHALT FOR TACK COAT	ASPHALT MATERIAL FOR			COMPACTED AGGREGATE FOR BASE NO. 53		COMPACTED AGGREGATE FOR SURFACE NO.73		JOINT ADHESIVE SURFACE	JOINT ADHESIVE INTERMEDIATE	LIQUID ASPHALT SEALANT	MILLING ASPHALT, 1 1/2 IN.	REMARKS							
						SYS	SYS	SYS	1	2	CUT		FILL	FT	TONS	TONS		TONS	TONS	TONS	TONS	TONS	TONS	TONS	TONS	SYS	SYS	SYS		DEPTH		DEPTH																
																														LBS PER SYD	LBS PER SYD		TONS	TONS	TONS	TONS						TONS	TONS	TONS	LFT	LFT	LFT	SYS
																															TONS	TONS																

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION			SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH	SKEW	FLOW LINE			SERVICE LIFE	SITE DESIGNATION	PH	BACKFILL METHOD	STRUCTURE BACKFILL	REVETMENT RIPRAP	CONCRETE CLASS A, FOR STR.	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION		SAFETY METAL END SECTION			REMARKS															
	STATION	LEFT	CROSS						RIGHT	COVER	UP STREAM										DOWN STREAM	TYPE	CYC	TONS	CYC		LFT	EA.	TYPE	SLOPE	EA.	TYPE	SLOPE	EA.							
																																			IN.	FT	ELEV.	ELEV.	YR		

PAVEMENT MARKINGS SUMMARY OF QUANTITIES

LOCATION	LINE PAINT		LINE EPOXY				LINE EPOXY				TRANSVERSE MARKINGS THERMOPLASTIC STOP LINE		TRANSVERSE MARKINGS CROSSHATCH LINE		TRANSVERSE MARKINGS CROSSWALK LINE		PAVEMENT MESSAGE THERMOPLASTIC LANE INDICATION ARROW	PAVEMENT MESSAGE THERMOPLASTIC WORD "ONLY"	SNOWPLOWABLE RAISED PAVEMENT MARKERS																							
	SOLID WHITE	BROKEN YELLOW	SOLID WHITE	SOLID YELLOW	SOLID WHITE	SOLID YELLOW	BROKEN WHITE	BROKEN YELLOW	BROKEN WHITE	BROKEN YELLOW	SOLID WHITE	SOLID WHITE	SOLID YELLOW	SOLID YELLOW	SOLID WHITE	SOLID WHITE																										
	4 in	4 in	4 in	4 in	8 in	8 in	4 in	4 in	8 in	8 in	12 in	24 in	24 in	24 in	24 in	4 in				8 in																						
	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	EACH	EACH	EACH																						

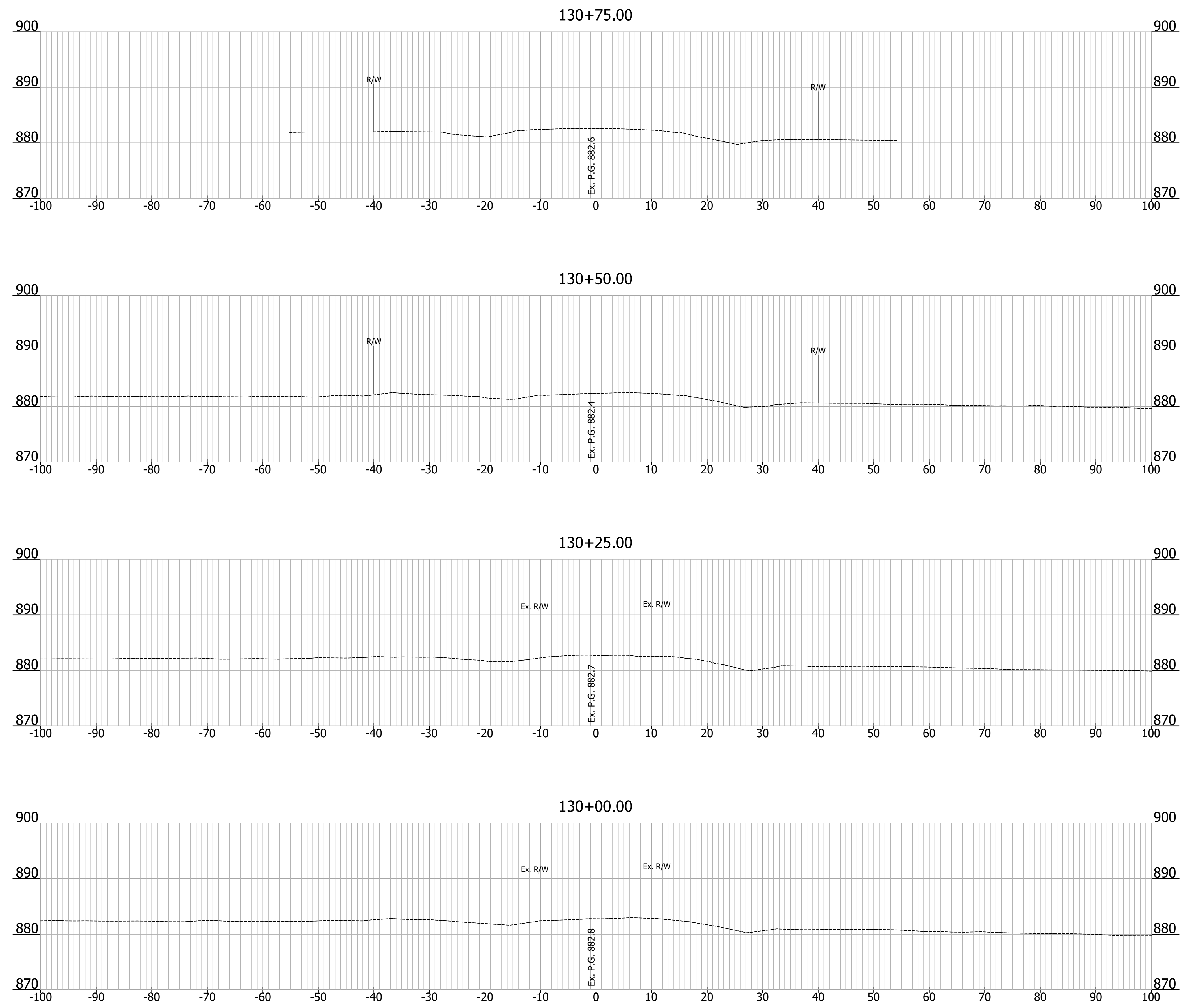
NOTE TO REVIEW
Tables to be completed in a later submittal.

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____		DATE _____
DESIGNED: EAS	11/2020	DRAWN: EAS	11/2020	
CHECKED: NDB	11/2020	CHECKED: DSB	11/2020	

INDIANA DEPARTMENT OF TRANSPORTATION
ROADWAY TABLES

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	1800155
SURVEY BOOK	SHEET
ELECTRONIC	7 of 14
CONTRACT	PROJECT
R-41588	1800155



Begin Incidental Construction Line "A" Sta. 130+00

NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL			
DESIGN ENGINEER		DATE	
DESIGNED: EAS	11/2020	DRAWN: EAS	11/2020
CHECKED: NDB	11/2020	CHECKED: DSB	11/2020

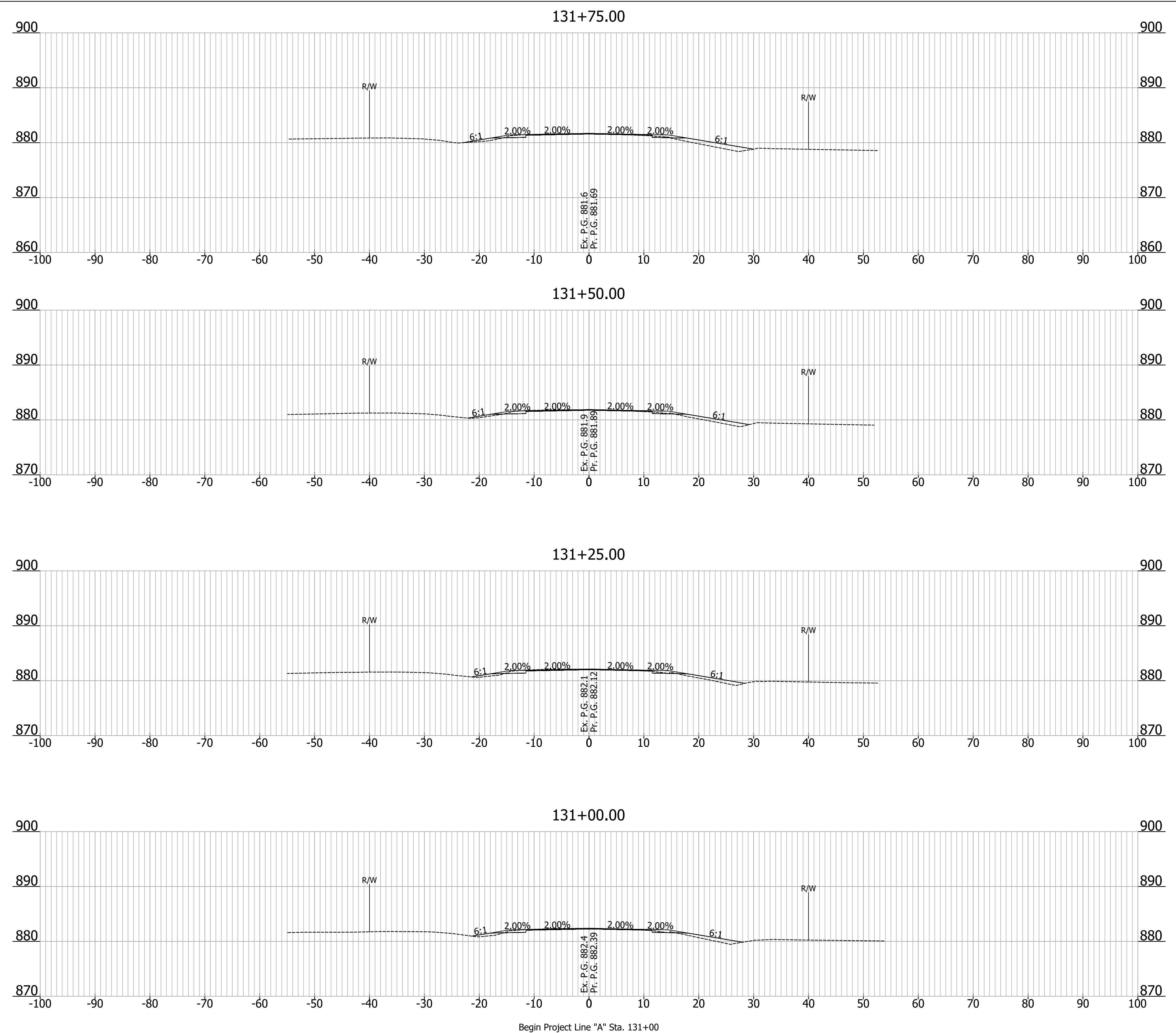
INDIANA DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SECTIONS LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800155
SURVEY BOOK	SHEET
ELECTRONIC	8 of 14
CONTRACT	PROJECT
R-41588	1800155



Last Update: Nov 06, 2020 - 9:40am
 Drawing name: Q:\P-19\3853-0F - Small Str - SR 234 UNT Little Raccoon Ck, 1800155 (INDOT)\DWG\Sheets\3853-0F - Cross Sections.dwg



Begin Project Line "A" Sta. 131+00

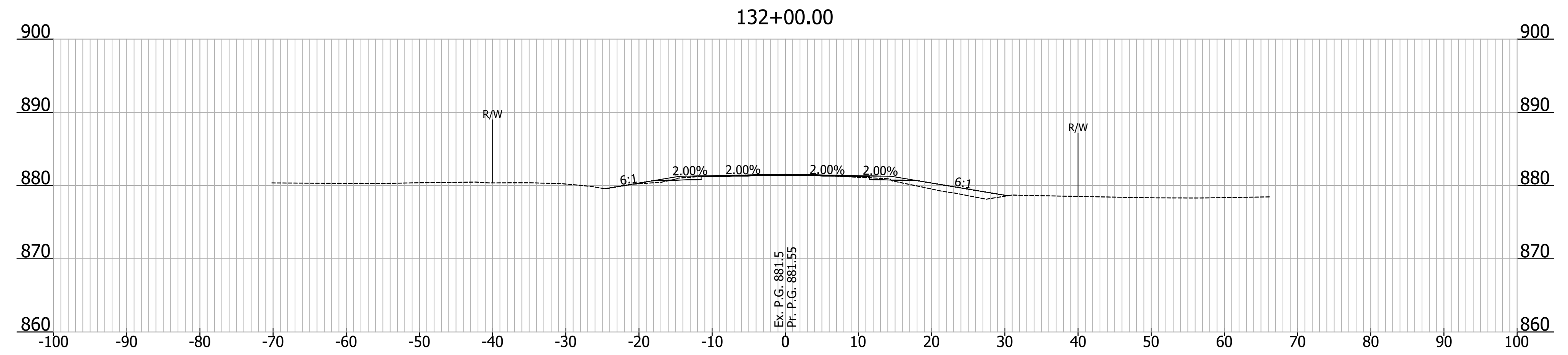
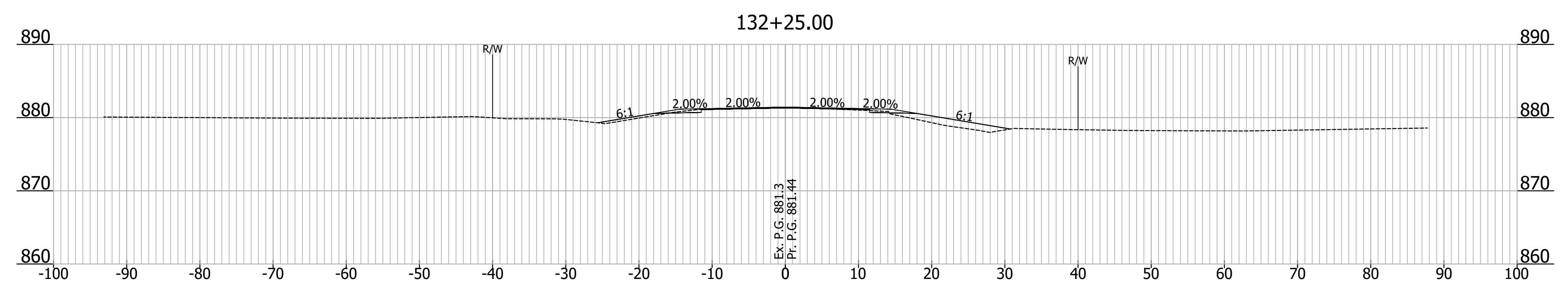
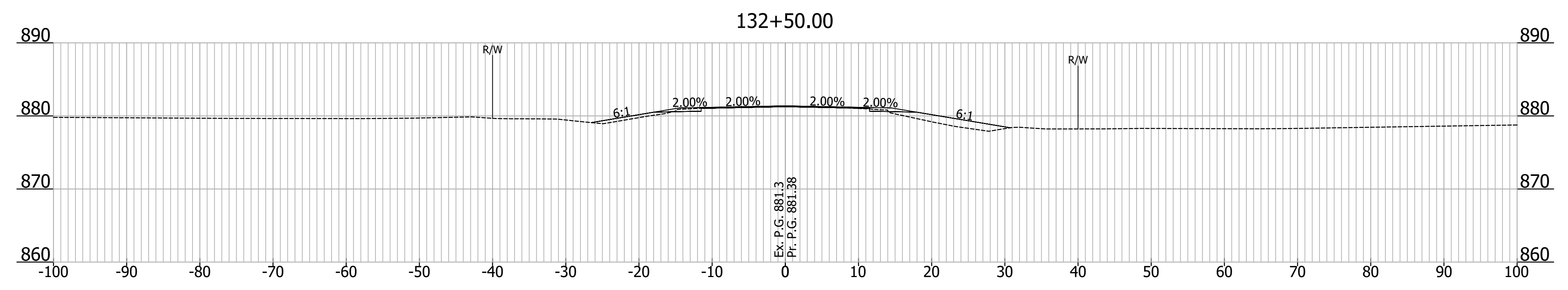
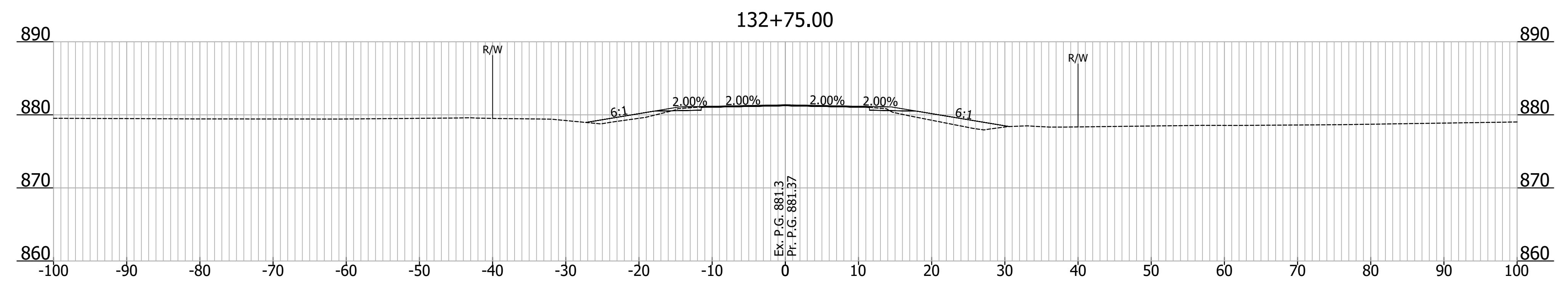
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE
DESIGNED: EAS	11/2020	DRAWN: EAS	11/2020	
CHECKED: NDB	11/2020	CHECKED: DSB	11/2020	

INDIANA DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800155
SURVEY BOOK	SHEET
ELECTRONIC	9 of 14
CONTRACT	PROJECT
R-41588	1800155



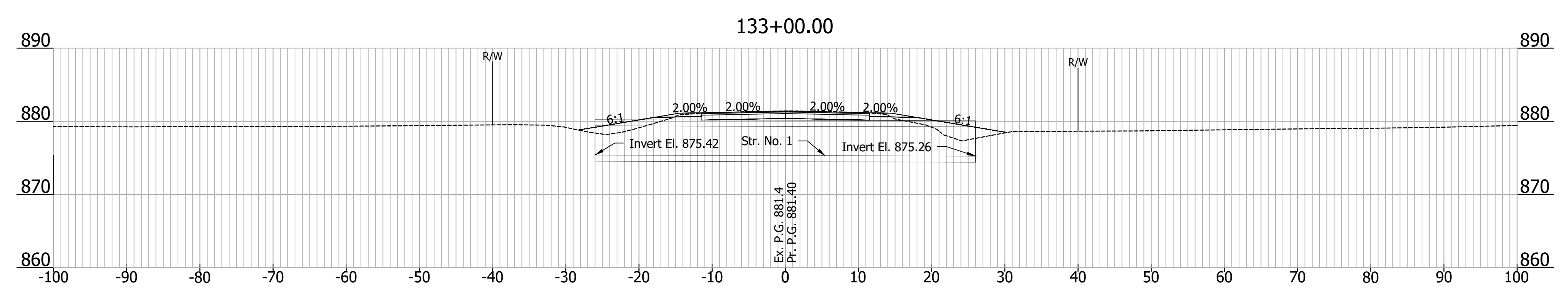
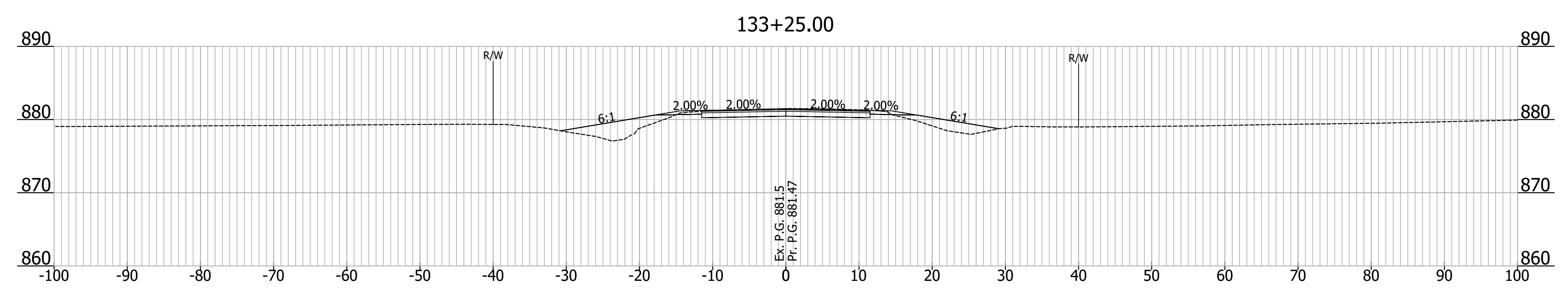
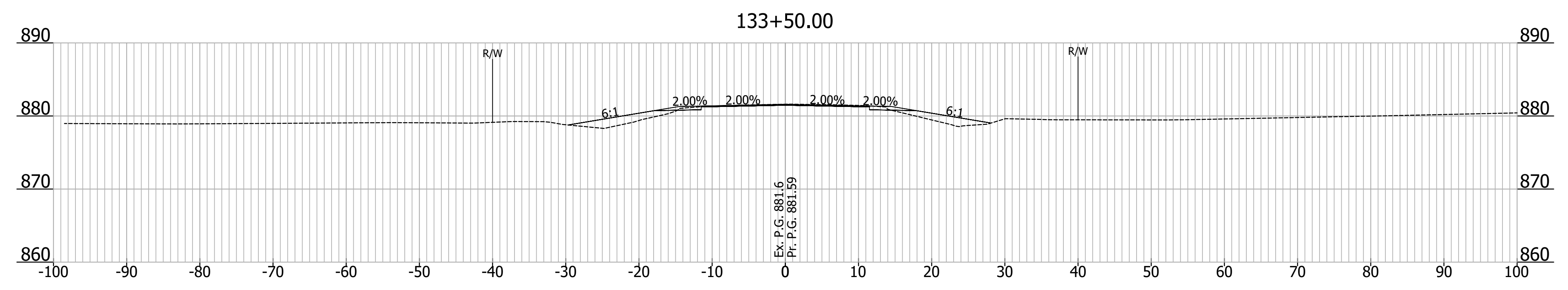
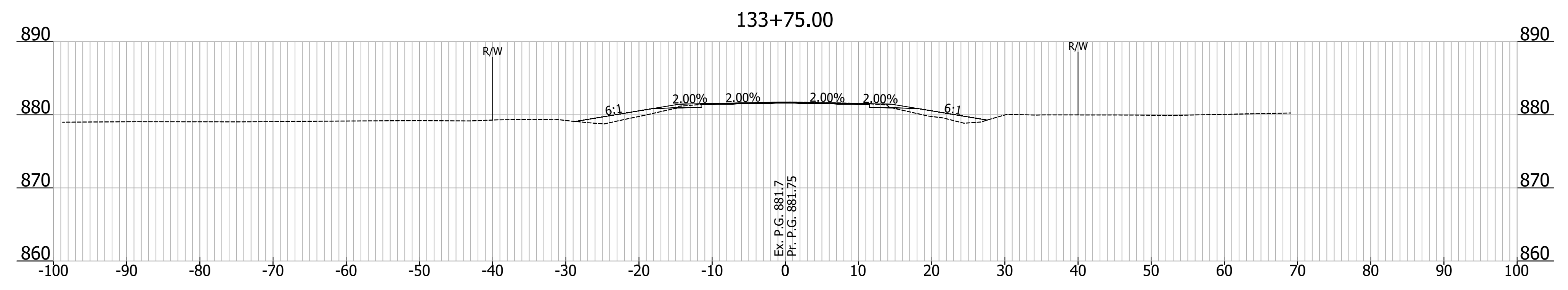
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL			
DESIGN ENGINEER		DATE	
DESIGNED: EAS	11/2020	DRAWN: EAS	11/2020
CHECKED: NDB	11/2020	CHECKED: DSB	11/2020

INDIANA DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SECTIONS LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800155
SURVEY BOOK	SHEET
ELECTRONIC	10 of 14
CONTRACT	PROJECT
R-41588	1800155



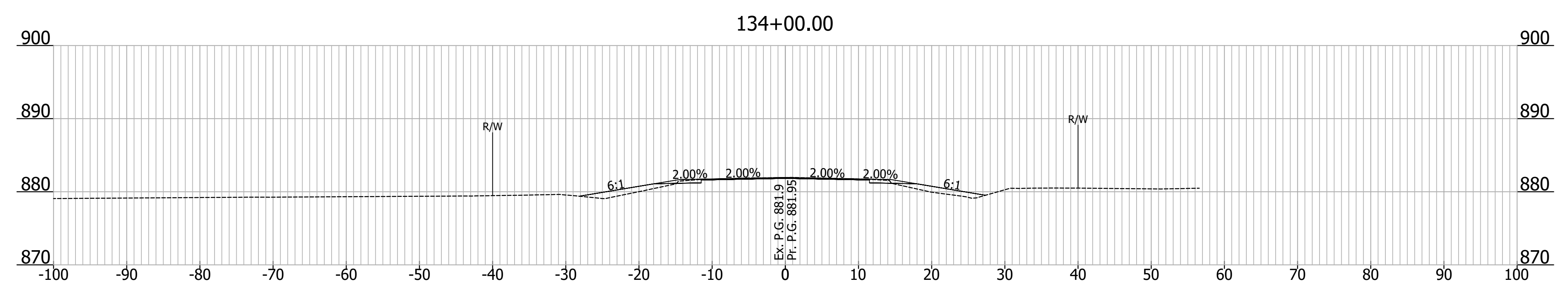
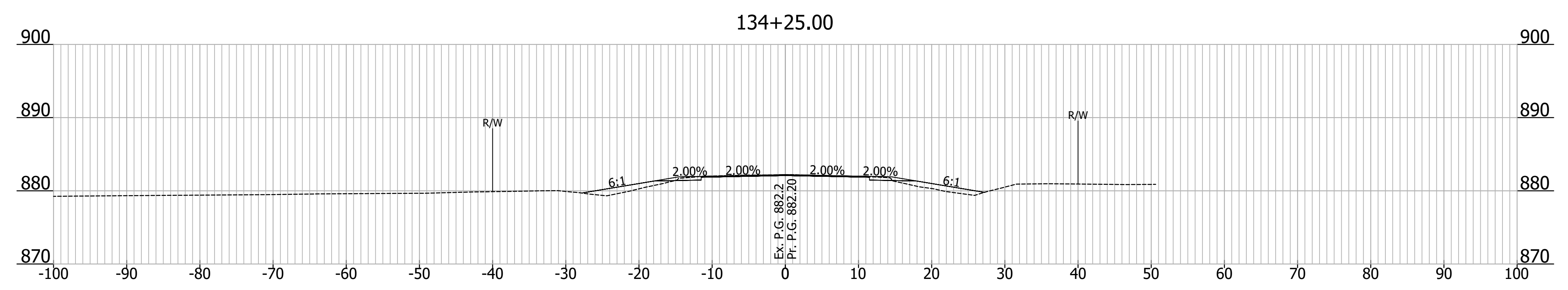
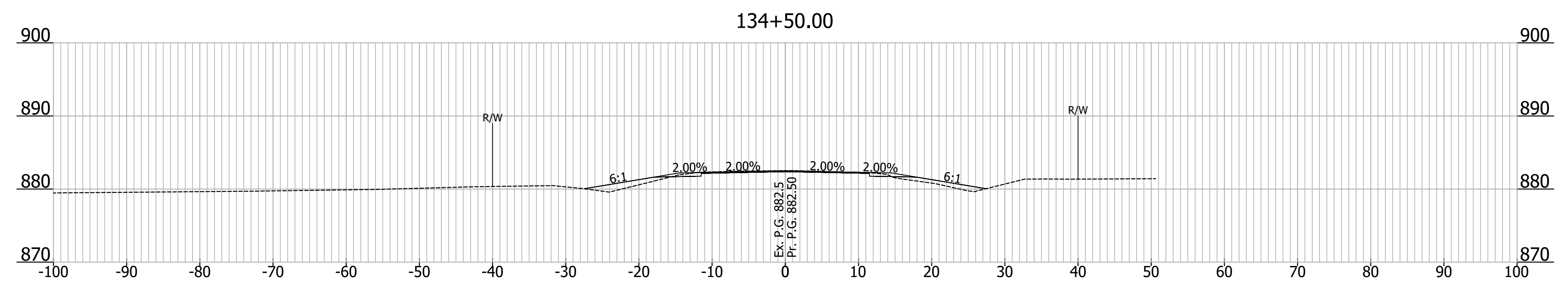
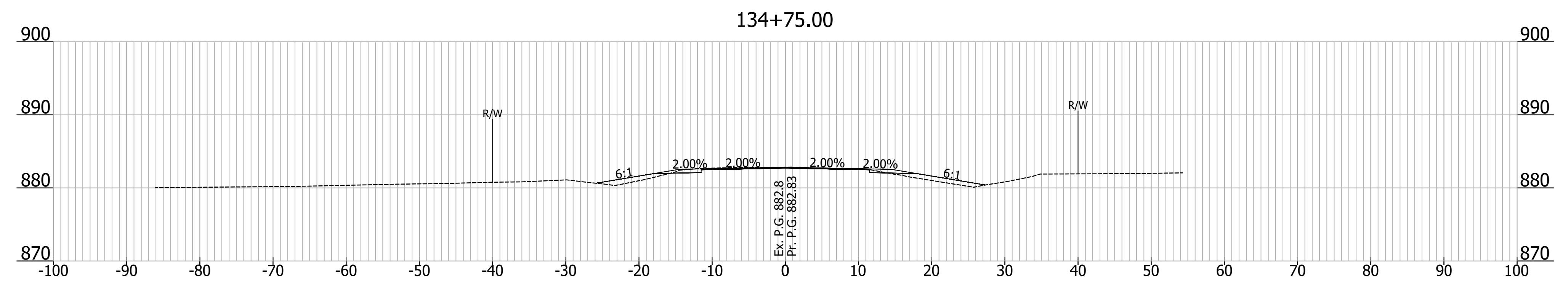
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE
DESIGNED: EAS	11/2020	DRAWN: EAS	11/2020	
CHECKED: NDB	11/2020	CHECKED: DSB	11/2020	

INDIANA DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SECTIONS LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800155
SURVEY BOOK	SHEET
ELECTRONIC	11 of 14
CONTRACT	PROJECT
R-41588	1800155



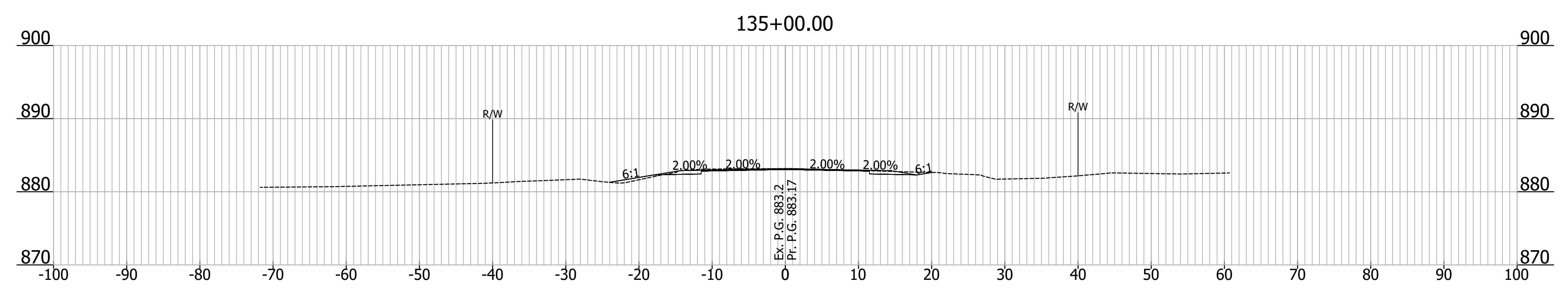
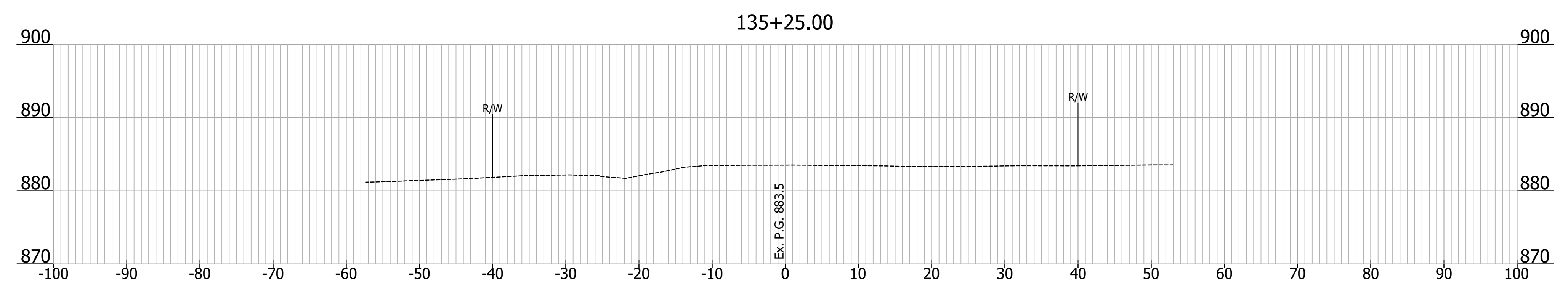
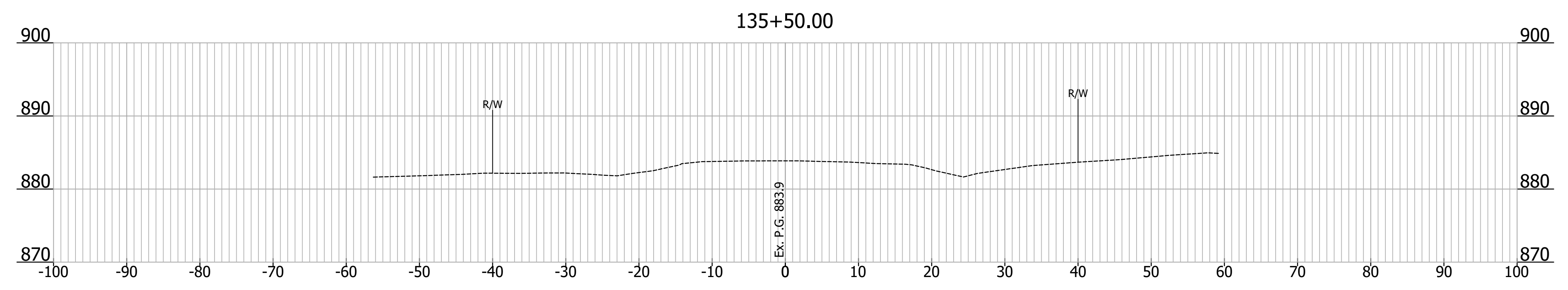
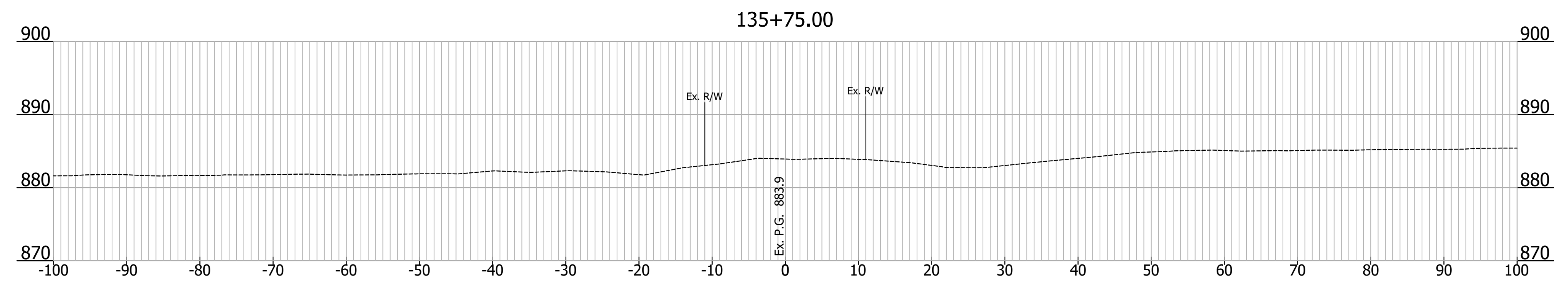
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE
DESIGNED: EAS	11/2020	DRAWN: EAS	11/2020	
CHECKED: NDB	11/2020	CHECKED: DSB	11/2020	

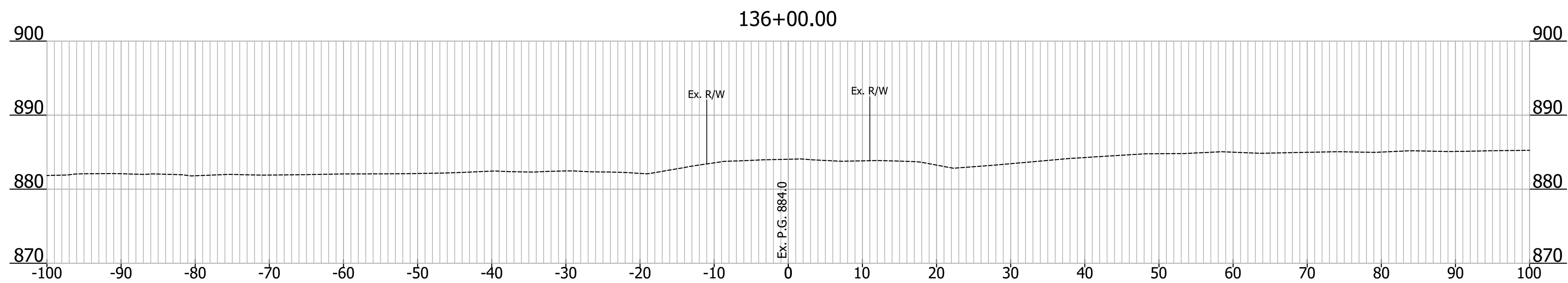
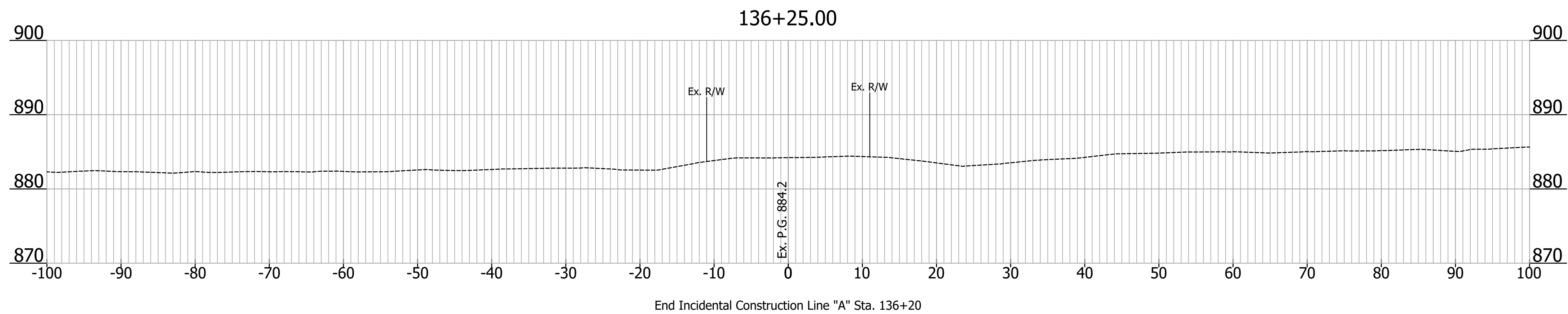
INDIANA DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SECTIONS LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800155
SURVEY BOOK	SHEET
ELECTRONIC	12 of 14
CONTRACT	PROJECT
R-41588	1800155



NOT FOR CONSTRUCTION	RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
	DESIGN ENGINEER				DATE	1" = 10'
	DESIGNED: EAS	11/2020	DRAWN: EAS	11/2020	VERTICAL SCALE	DESIGNATION
	CHECKED: NDB	11/2020	CHECKED: DSB	11/2020	1" = 10'	1800155
ROADWAY CROSS SECTIONS LINE "A"				SURVEY BOOK	SHEET	
				ELECTRONIC	13 of 14	
				CONTRACT	PROJECT	
				R-41588	1800155	



NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL			
DESIGN ENGINEER		DATE	
DESIGNED: EAS	11/2020	DRAWN: EAS	11/2020
CHECKED: NDB	11/2020	CHECKED: DSB	11/2020

INDIANA DEPARTMENT OF TRANSPORTATION

ROADWAY CROSS SECTIONS LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	N/A
VERTICAL SCALE	DESIGNATION
1" = 10'	1800155
SURVEY BOOK	SHEET
ELECTRONIC	14 of 14
CONTRACT	PROJECT
R-41588	1800155