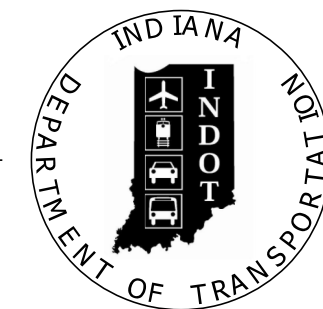


PROJECT	DESIGNATION
1802967	1902059 & 1902060
CONTRACT	BRIDGE FILE
R-41841	TBD

INDIANA DEPARTMENT OF TRANSPORTATION



STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
TBD	Composite Prestressed Concrete Bulb Tee Beam Bridge	SPAN: 1 @ 110'-0" SKEW: 17°30'00" RIGHT	PRAIRIE CREEK	207+00.00 "PR-A"

KIN DESIGNATION NUMBERS	
DESIGNATION	DESCRIPTION
1802967	I-65 Road Project

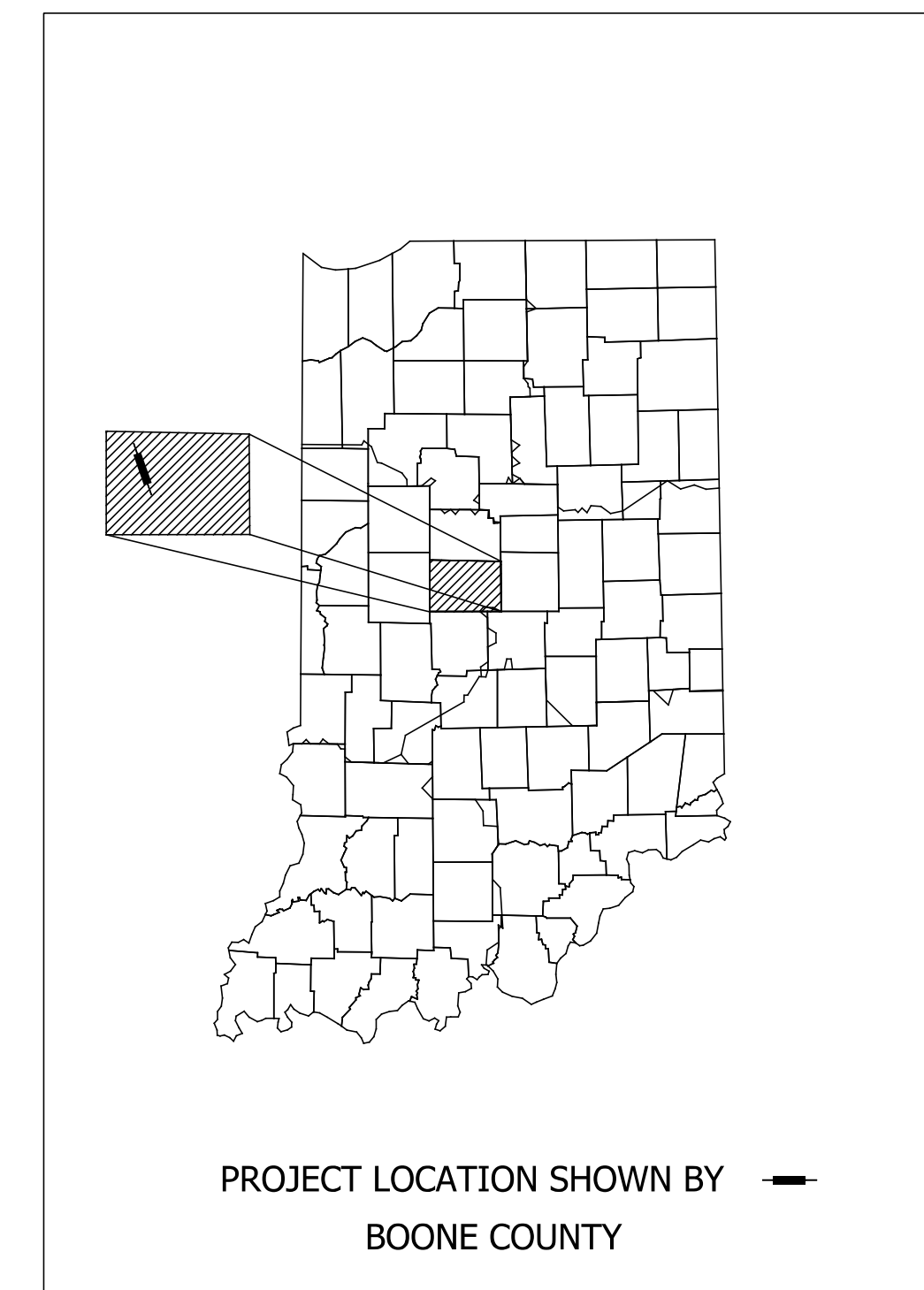
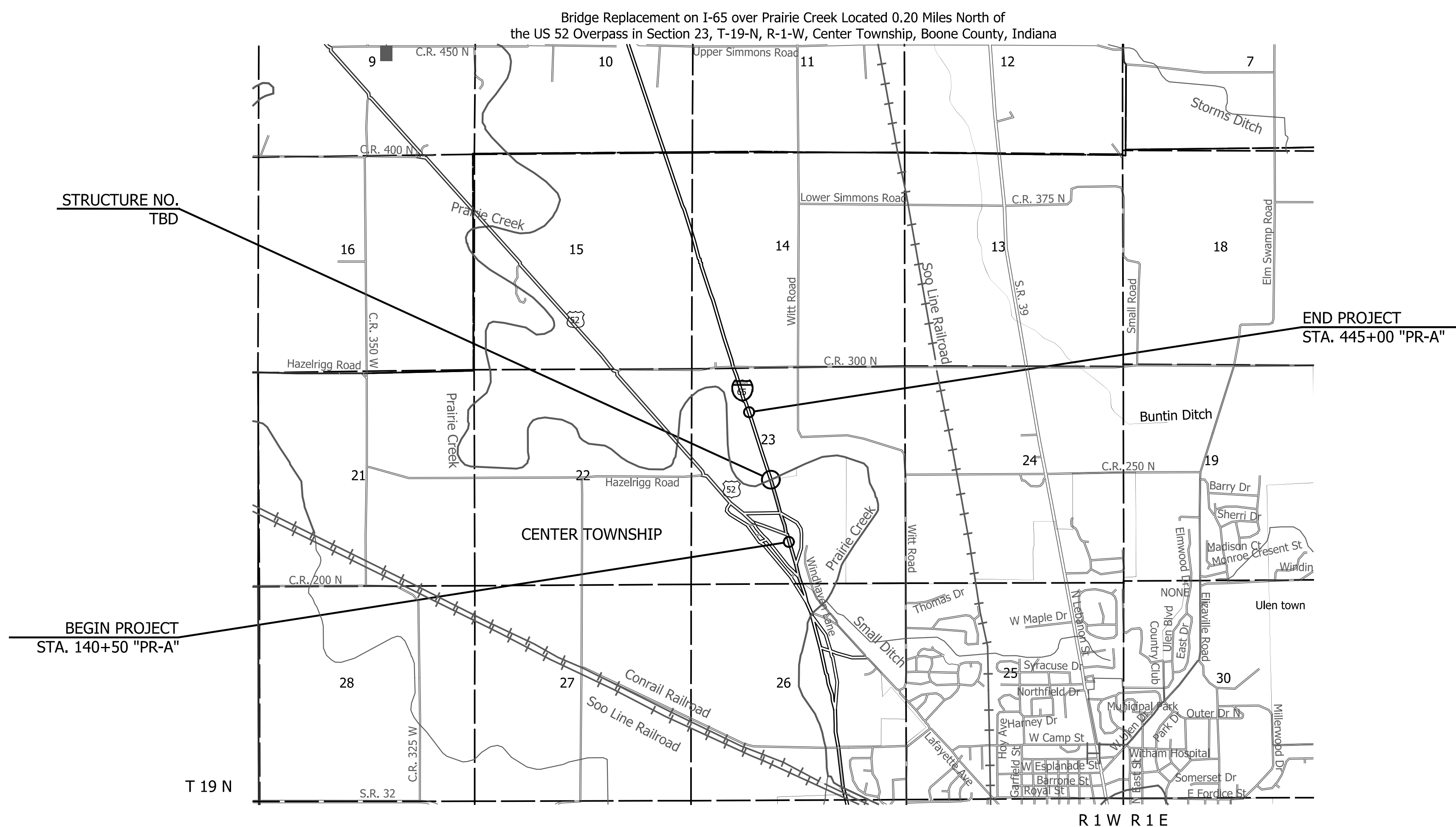
TRAFFIC DATA		I-65	
A.A.D.T. (2023)	51710	V.P.D.	
A.A.D.T. (2043)	55730	V.P.D.	
D.H.V (2043)	4460	V.P.H.	
DIRECTIONAL DISTRIBUTION		51	%
TRUCKS		35	% A.A.D.T.
		29	% D.H.V.
DESIGN DATA			
DESIGN SPEED		70	M.P.H.
PROJECT DESIGN CRITERIA	RECONSTRUCTION (FREEWAY)		
FUNCTIONAL CLASSIFICATION	PRINCIPAL ARTERIAL		
RURAL/URBAN	RURAL		
TERRAIN	LEVEL		
ACCESS CONTROL	FULL		

BRIDGE PLANS

FOR SPANS OVER 20 FEET

ROUTE: I-65 AT: RP 142+25

PROJECT NO. 1902059 & 1902060 P.E.
1802967 R/W
1802967 CONST.



LATITUDE: 40°04'32"N	LONGITUDE: 86°29'57"W
BRIDGE LENGTH: 0.021 MI.	
ROADWAY LENGTH: 5.746 MI.	
TOTAL LENGTH: 5.767 MI.	
MAX. GRADE: -0.4550 %	

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

9025 RIVER ROAD, SUITE 200
INDIANAPOLIS, IN 46240
TEL 317.547.5580 FAX 317.543.0270
www.structurepoint.com

FEDERAL HIGHWAY ADMINISTRATION
U.S. DEPT. OF TRANSPORTATION

APPROVED: _____ DATE _____

DIVISION ADMINISTRATOR

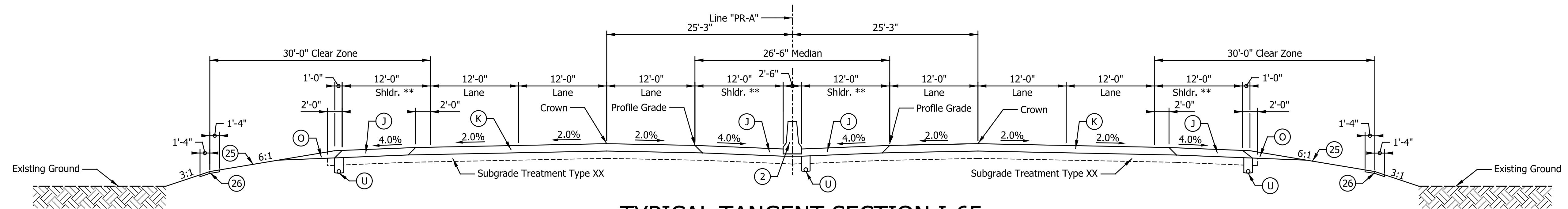
PLANS PREPARED BY: American Structurepoint, Inc. (317) 547-5580 PHONE NUMBER

CERTIFIED BY: _____ DATE _____

APPROVED FOR LETTING: _____ DATE _____

INDIANA DEPARTMENT OF TRANSPORTATION

BRIDGE FILE	
TBD	
DESIGNATION	
1902059 & 1902060	
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 13
CONTRACT	PROJECT
R-41841	1802967



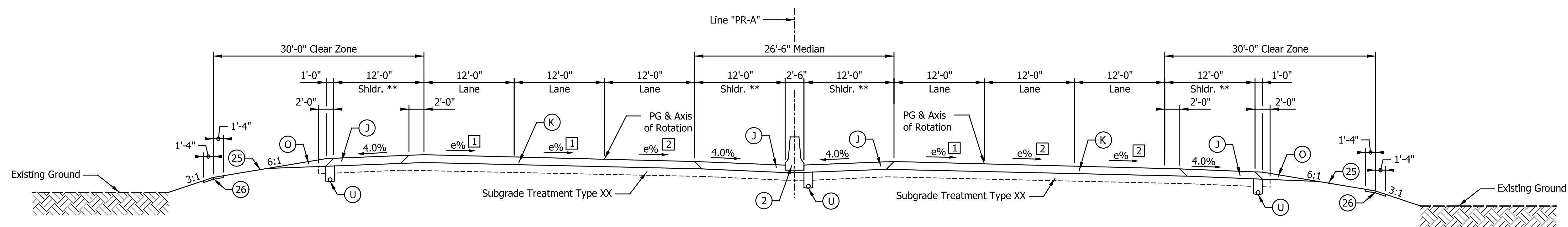
TYPICAL TANGENT SECTION I-65

143+57.00 TO 147+81.50 "PR-A" - SOUTHBOUND
 170+33.00 TO 177+01.88 "PR-A" - SOUTHBOUND
 189+43.47 TO 308+95.50 "PR-A" - SOUTHBOUND
 327+07.00 TO 353+47.20 "PR-A" - SOUTHBOUND
 388+64.75 TO 409+72.37 "PR-A" - SOUTHBOUND

143+57.00 TO 147+81.50 "PR-A" - NORTHBOUND
 197+37.65 TO 308+07.00 "PR-A" - NORTHBOUND
 327+07.00 TO 353+47.20 "PR-A" - NORTHBOUND
 389+64.20 TO 410+72.41 "PR-A" - NORTHBOUND

Paving Exceptions

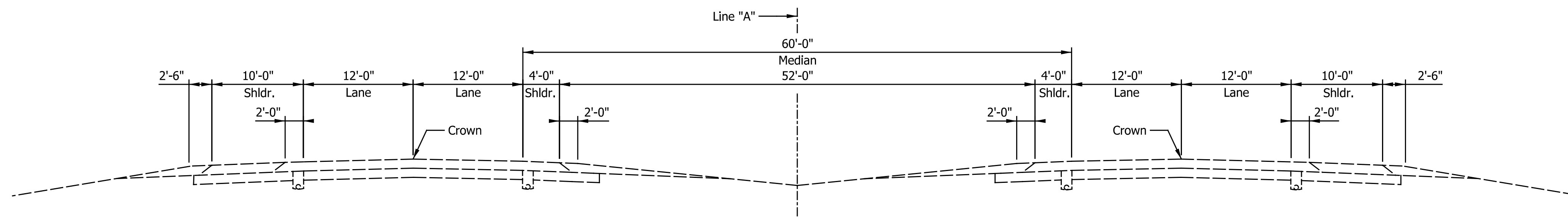
206+30.54 TO 207+55.46 "PR-A" - NORTHBOUND
 206+46.33 TO 207+70.73 "PR-A" - SOUTHBOUND



TYPICAL SUPERELEVATION SECTION I-65

140+50.00 TO 143+57.00 "PR-A" - SOUTHBOUND (e = 2.3%, CURVE TO THE RIGHT) 140+50.00 TO 143+57.00 "PR-A" - NORTHBOUND (e = 2.3%, CURVE TO THE RIGHT)

- (1) Transition from 2.3% @ 140+47.00 to -2.0% @ 143+57.00
- (2) Transition from 2.3% @ 140+47.00 to 2.0% @ 143+57.00



Existing Typical Tangent Section I-65

LEGEND

- (K) Mainline Pavement, consisting of:
 XXX LBS/SYS QC/QA-HMA, 4, 76, Surface 9.5 mm - SMA, on
 XXX LBS/SYS QC/QA-HMA, 4, 76, Intermediate 19.0 mm, on
 XXX LBS/SYS QC/QA-HMA, 4, 64, Base 25.0 mm, on
 XXX LBS/SYS QC/QA-HMA, 4, 76, Intermediate OG 19.0 mm
- (K1) Mainline Overlay Pavement, consisting of:
 X.X" Milling, Asphalt
 XXX LBS/SYS QC/QA-HMA, 4, 76, Surface 12.5 mm - SMA, on
 XXX LBS/SYS QC/QA-HMA, 4, 76, Intermediate 19.0 mm
- (J) Shoulder Pavement, consisting of:
 XXX LBS/SYS QC/QA-HMA, 3, 70, Surface 9.5 mm, on
 XXX LBS/SYS QC/QA-HMA, 3, 70, Intermediate 19.0 mm, on
 XXX LBS/SYS QC/QA-HMA, 3, 64, Base 25.0 mm, on
 XXX LBS/SYS QC/QA-HMA, 4, 76, Intermediate OG 19.0 mm
- (J1) Outside Shoulder Overlay, consisting of:
 X.X" Milling, Asphalt
 XXX LBS/SYS QC/QA-HMA, 3, 70, Surface 12.5 mm, on
 XXX LBS/SYS QC/QA-HMA, 3, 70, Intermediate 19.0 mm, on
- (O) Compacted Aggregate, No. 53
- (U) Underdrain, Type 4, 6"
- (W) Guardrail, Thrie Beam, Double Faced
- (2) 45 in. Concrete Barrier
- (25) Seed Mixture, R
- (26) Sodding

** Shoulder With Milled HMA Corrugations, Conventional

DATE	REVISION

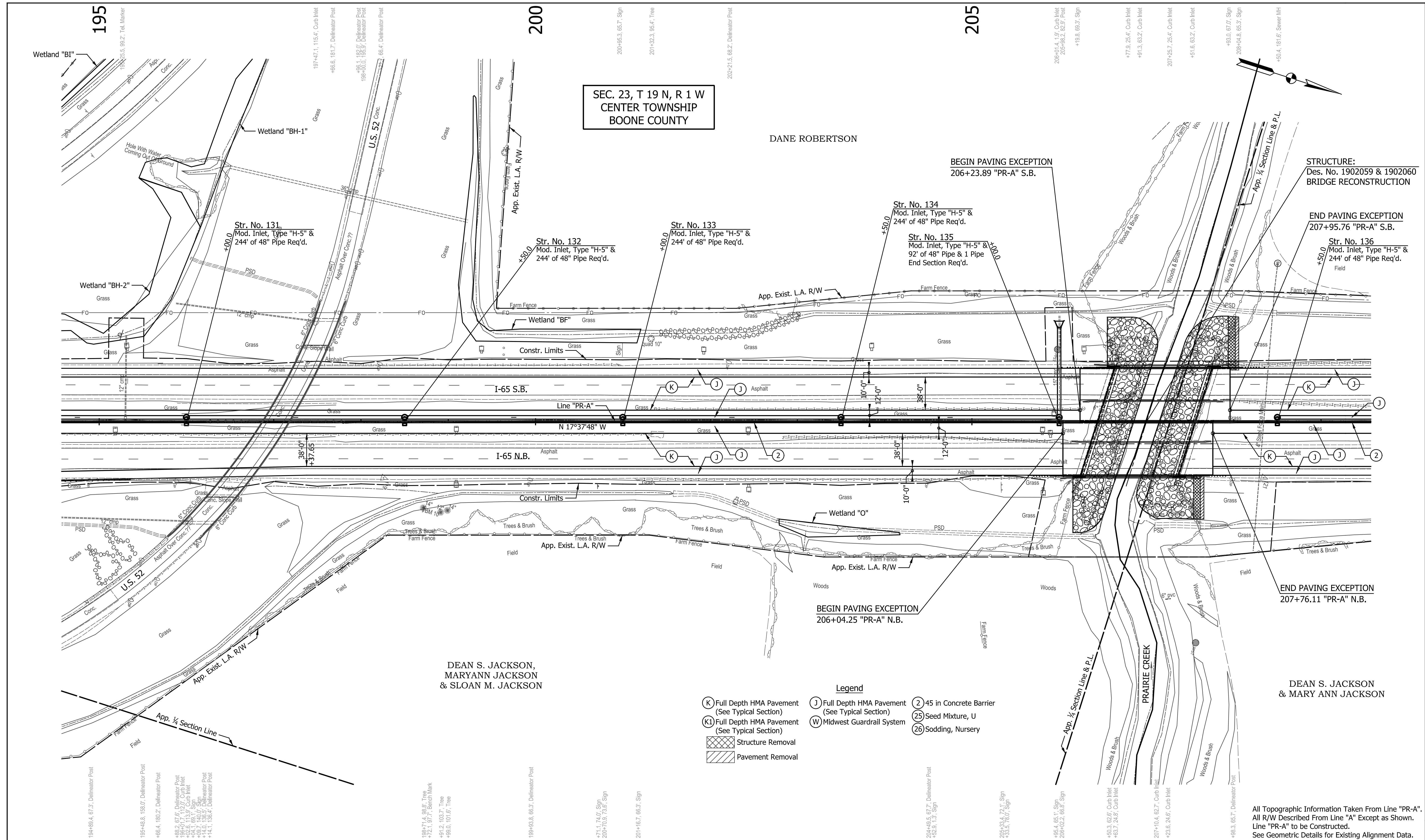
FOR INFORMATION ONLY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JTS	DRAWN: JTS	
CHECKED: KRO	CHECKED: KRO	

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
I-65 LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	TBD
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1902059 & 1902060
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 13
CONTRACT	PROJECT
R-41841	1802967



SEC. 23, T 19 N, R 1 W
 CENTER TOWNSHIP
 BOONE COUNTY

DANE ROBERTSON

DEAN S. JACKSON,
 MARYANN JACKSON
 & SLOAN M. JACKSON

DEAN S. JACKSON
 & MARY ANN JACKSON

- Legend**
- (K) Full Depth HMA Pavement (See Typical Section)
 - (K1) Full Depth HMA Pavement (See Typical Section)
 - (J) Full Depth HMA Pavement (See Typical Section)
 - (W) Midwest Guardrail System
 - (2) 45 in Concrete Barrier
 - (25) Seed Mixture, U
 - (26) Sodding, Nursery
 - [Hatched Box] Structure Removal
 - [Diagonal Lines Box] Pavement Removal

DATE	REVISION

FOR INFORMATION ONLY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
	JTS	
DESIGNED:	DRAWN:	
	EAK	
CHECKED:	CHECKED:	
	KRO	

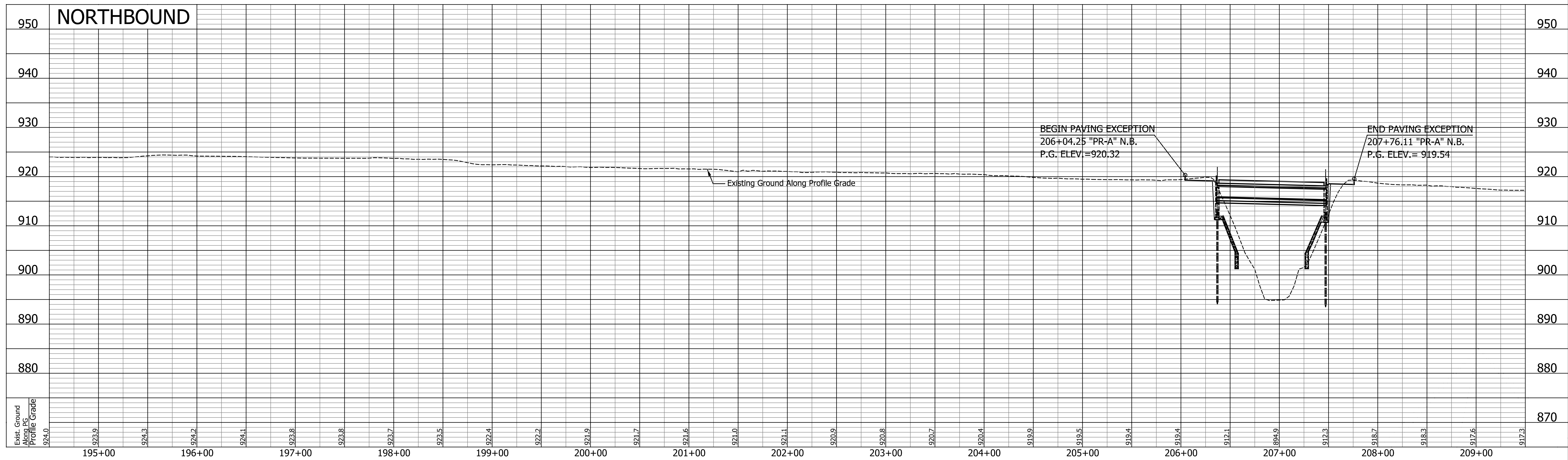
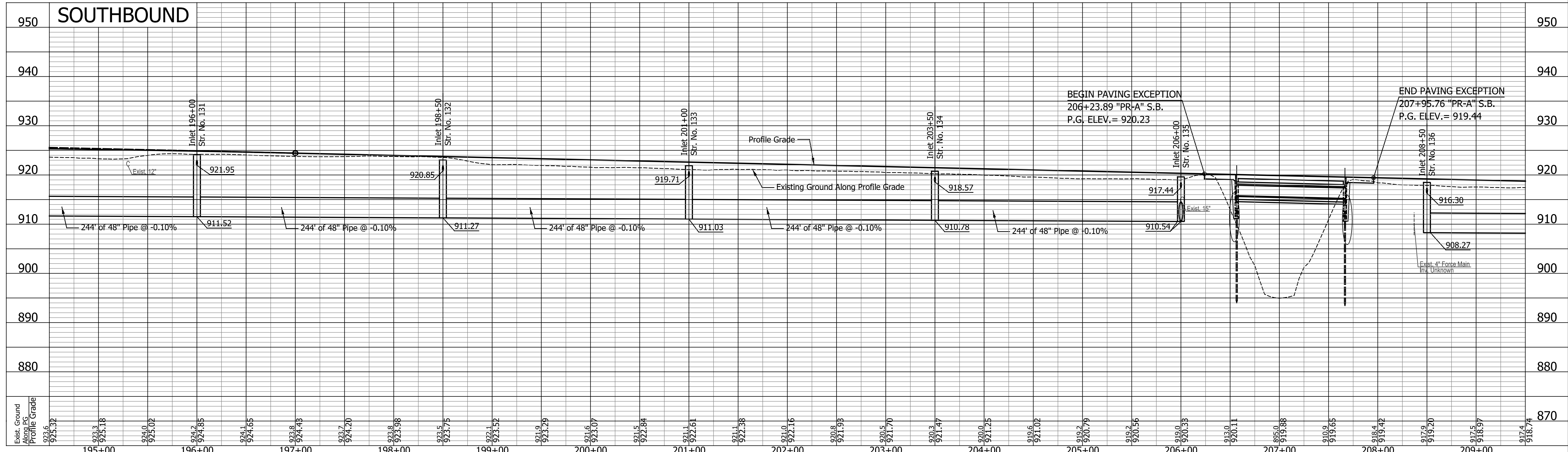
**INDIANA
 DEPARTMENT OF TRANSPORTATION**

**PLAN VIEW
 LINE "PR-A"**

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	TBD
VERTICAL SCALE	DESIGNATION
N/A	1902059 & 1902060
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 13
CONTRACT	PROJECT
R-41841	1802967

All Topographic Information Taken From Line "PR-A".
 All R/W Described From Line "A" Except as Shown.
 Line "PR-A" to be Constructed.
 See Geometric Details for Existing Alignment Data.

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DATE	REVISION

FOR INFORMATION ONLY

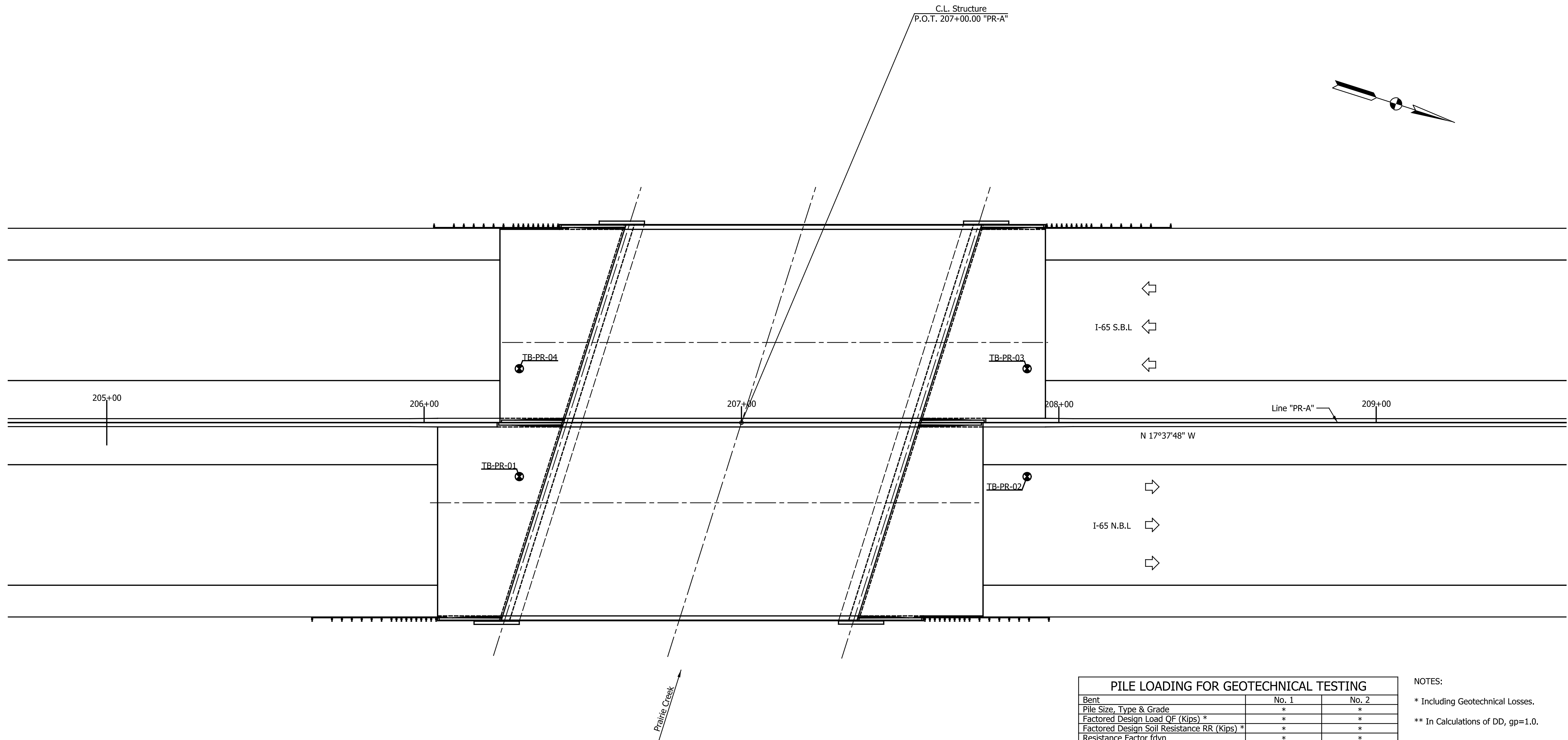
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JTS	DRAWN: EAK	
CHECKED: KRO	CHECKED: KRO	

INDIANA
DEPARTMENT OF TRANSPORTATION

PROFILES

NORTHBOUND AND SOUTHBOUND LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE TBD
VERTICAL SCALE 1" = 10'	DESIGNATION 1902059 & 1902060
SURVEY BOOK ELECTRONIC	SHEETS 5 of 13
CONTRACT R-41841	PROJECT 1802967



PLAN

PILE LOADING FOR GEOTECHNICAL TESTING		
Bent	No. 1	No. 2
Pile Size, Type & Grade	*	*
Factored Design Load QF (Kips) *	*	*
Factored Design Soil Resistance RR (Kips) *	*	*
Resistance Factor fdyn	*	*
Downdrag Load DD (Kips)	*	*
Nominal Soil Resistance Rn (Kips) **	*	*
Downdrag Friction Rsd (Kips)	*	*
Scour Zone Friction Rs scour (Kips)	*	*
Nominal Driving Resistance Rndr (Kips)	*	*
Testing By Dynamic Pile Load Test, Standard Specifications 701.05 (b.)		

NOTES:
 * Including Geotechnical Losses.
 ** In Calculations of DD, gp=1.0.

DATE	REVISION

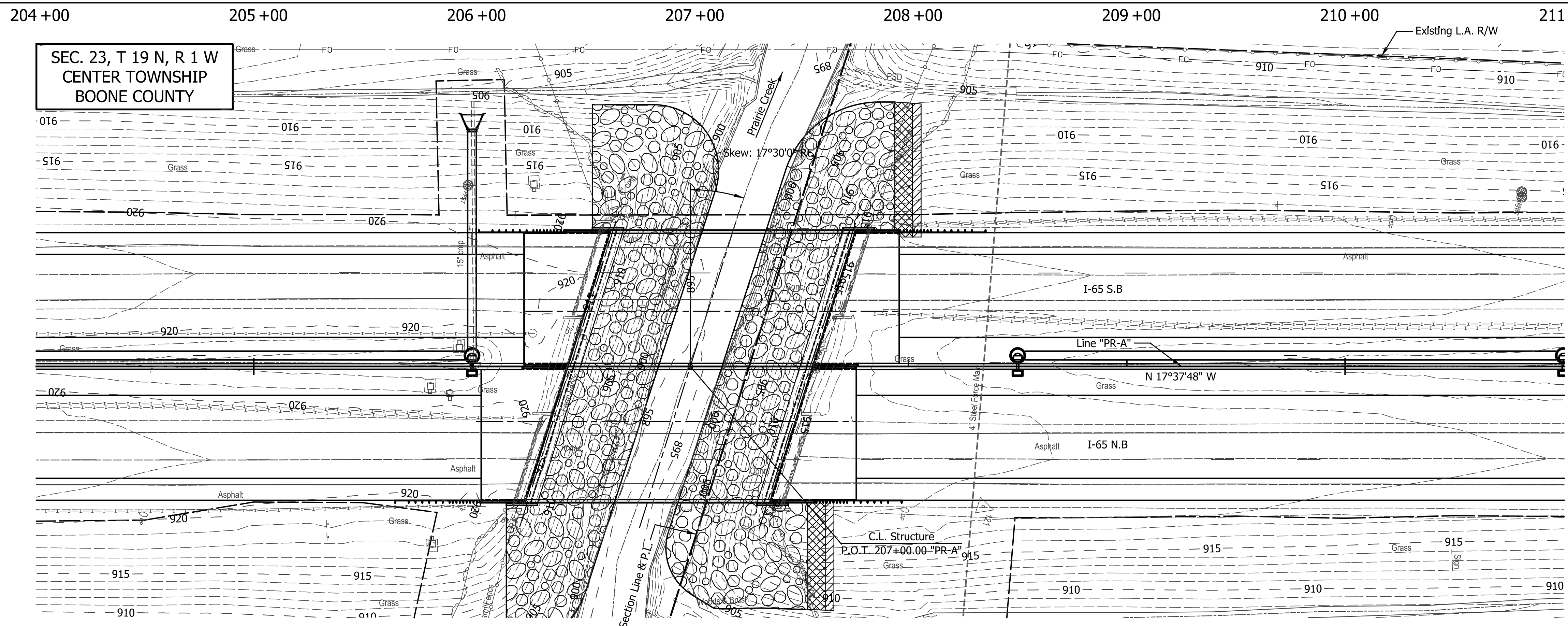
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CDG	DRAWN: _____ MRP	
CHECKED: _____ DAD	CHECKED: _____ DAD	

INDIANA DEPARTMENT OF TRANSPORTATION

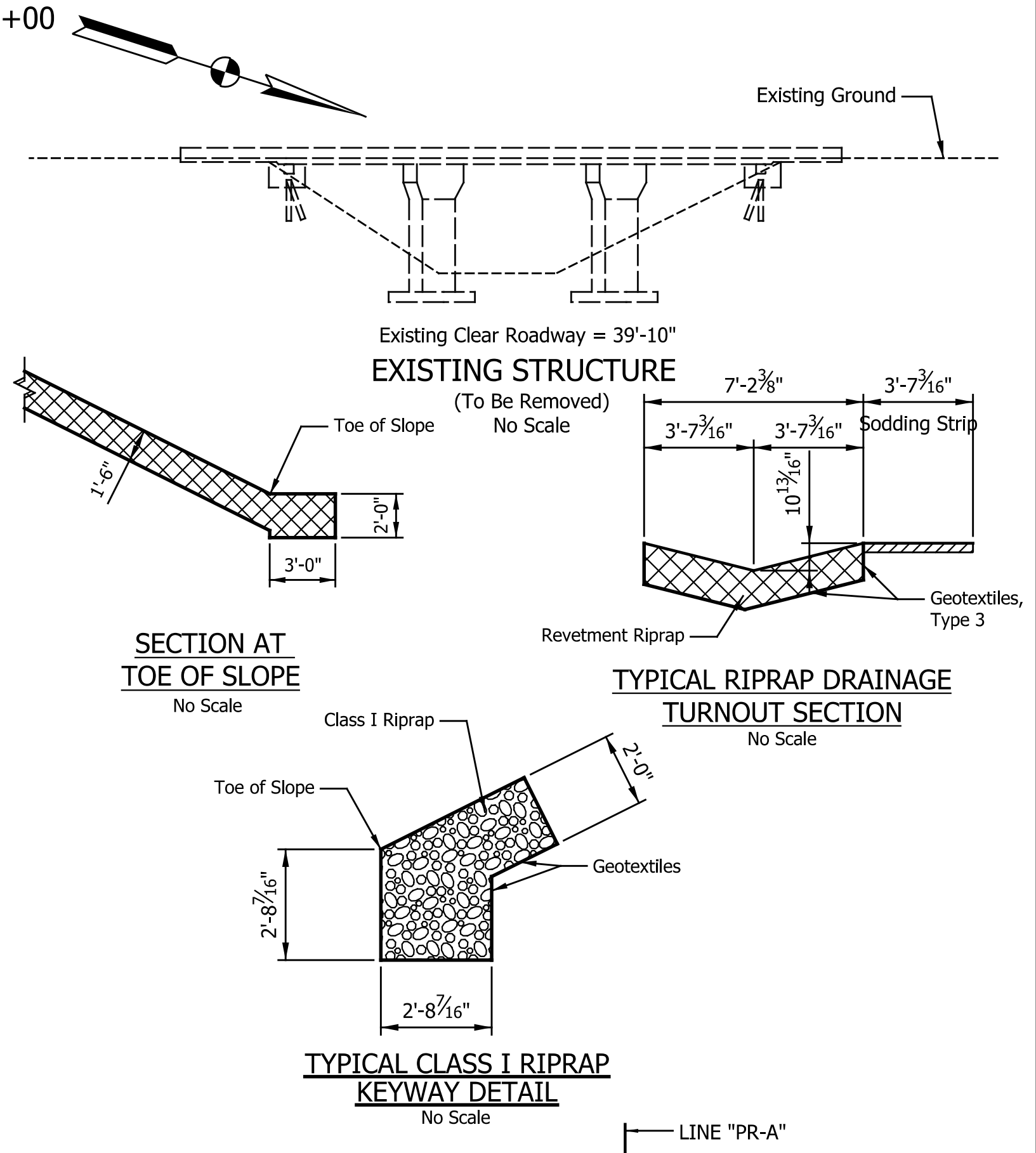
SOIL BORINGS

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	TBD
VERTICAL SCALE	DESIGNATION
1/8" = 1'-0"	1902059 & 1902060
SURVEY BOOK	SHEETS
ELECTRONIC	6 of 13
CONTRACT	PROJECT
R-41841	1802967

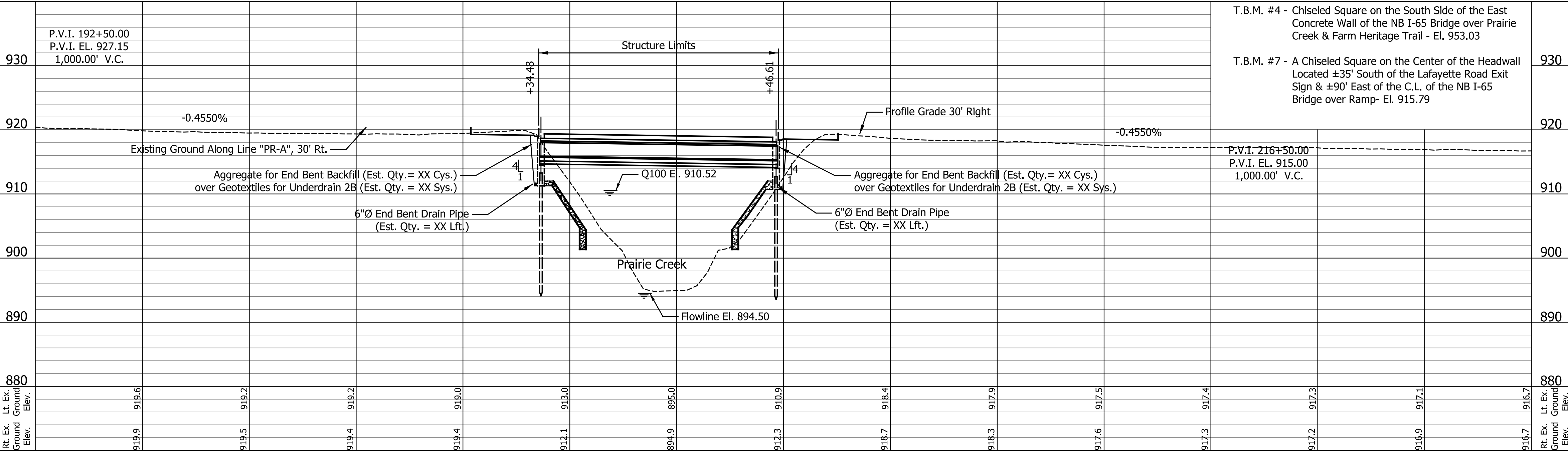
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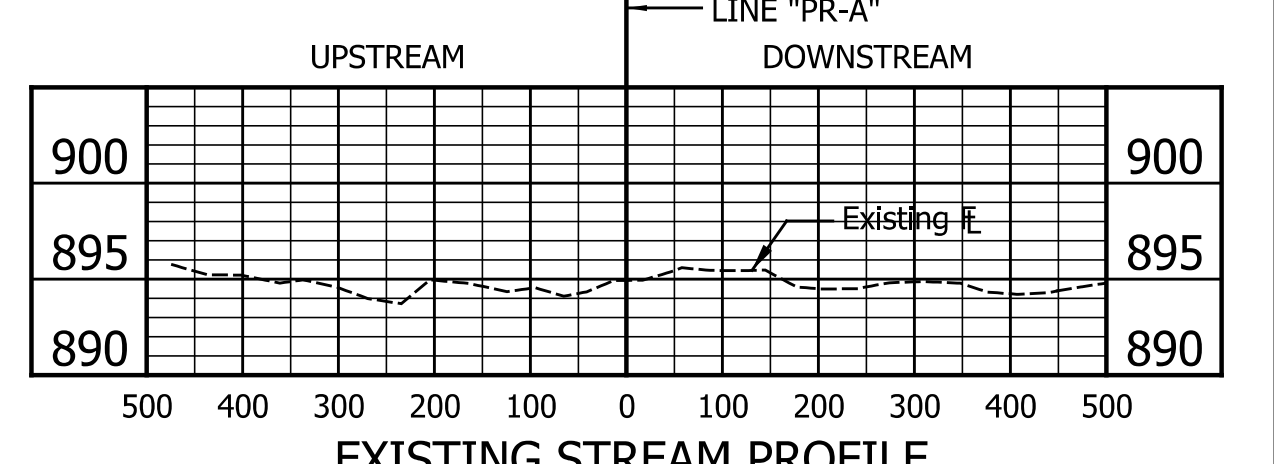
SITUATION PLAN
Scale: 1" = 30'-0", Contour Interval 1'-0"



204+00 205+00 206+00 207+00 208+00 209+00 210+00 211+00



PROFILE ON PROPOSED Q ROADWAY
Scales: 1" = 30'-0" Horizontal, 1" = 5'-0" Vertical



EXISTING STREAM PROFILE
Scales: 1" = 200'-0" Horizontal, 1" = 10'-0" Vertical

HYDRAULIC DATA

Drainage Area	= 27.85 Sq. Mi.
Discharge (Q100)	= 4390 Cfs.
Q100 High Water El. (Natural Channel)	= 910.52 Ft.
Back Water @ Q100	= 0.16 Ft.
Velocity	= 4.69 Ft./Sec.
Waterway Opening Required (Below El. 910.52)	= 935 Sft.
Waterway Opening Provided (Below El. 910.52)	= 935 Sft.
Freeboard Provided (Above El. 910.52)	= 3.61 Ft.
Q500 Scour Elevation	= 888.29 Ft.

NOTES:

All R/W on this sheet is described from Line "PR-A".

For guardrail limits and side ditch grades, see Road Plan and Profile Sheet.

For topo references, see Road Plans.

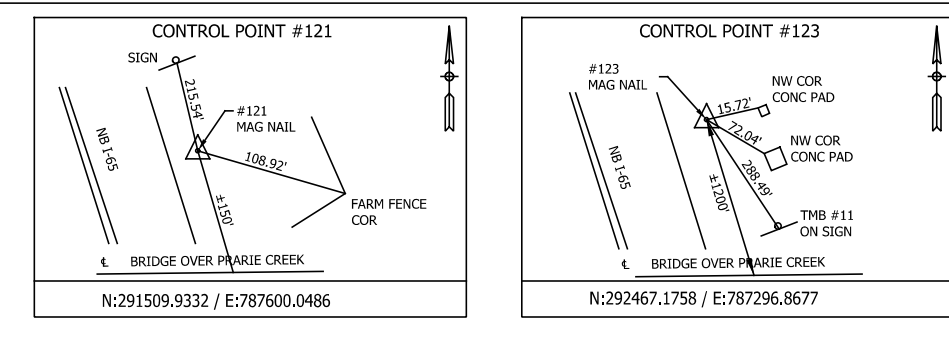
Cross-Hatched areas indicate limits of 24" Class 1 Riprap over Geotextiles. (Est. Qty. = * Tons of 24" Class 1 Riprap over * Sys. of Geotextiles)

Hatched areas indicate limits of 4' wide sodding strip. (Est. Qty. = * Sys.)

Indicates Limits Of 24" Class I Riprap Over Geotextiles (Est. Qty. = * Tons Of 24" Class I Riprap Over * Sys. Of Geotextiles)

TWIN COMPOSITE PRESTRESSED CONCRETE BULB TEE BEAM BRIDGES
INTERSTATE 65 OVER PRAIRIE CREEK
SPAN: 110'-0" SKEW: 17°30'00" RIGHT CLEAR ROADWAY: 59'-6 1/2"
BOONE COUNTY

DATE	REVISION

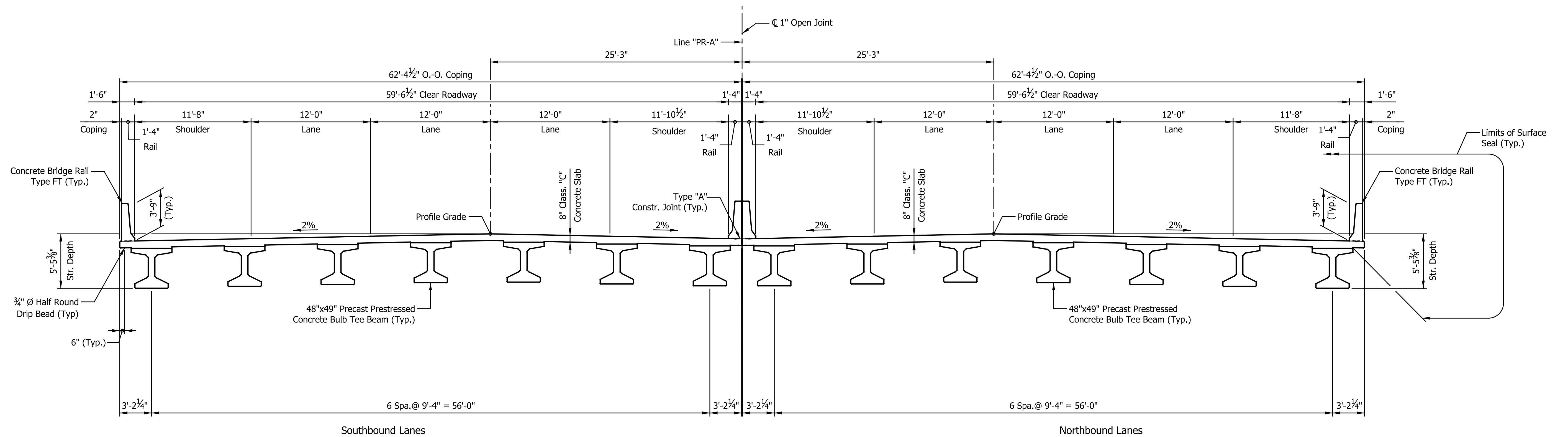


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CDG	DRAWN: MRP	
CHECKED: DAD	CHECKED: DAD	

INDIANA DEPARTMENT OF TRANSPORTATION

LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	TBD
VERTICAL SCALE	DESIGNATION
AS NOTED	1902059 & 1902060
SURVEY BOOK	SHEETS
ELECTRONIC	8 of 13
CONTRACT	PROJECT
R-41841	1802967



TYPICAL SECTION

TWIN COMPOSITE PRESTRESSED CONCRETE BULB TEE BEAM BRIDGES

INTERSTATE 65 OVER PRAIRIE CREEK
 SPAN: 110'-00" SKEW: 17°30'00" RIGHT CLEAR ROADWAY: 59'-6 1/2"
 BOONE COUNTY

DATE	REVISION

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ CDG _____	DRAWN: _____ MRP _____	
CHECKED: _____ DAD _____	CHECKED: _____ DAD _____	

INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN	

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	TBD
VERTICAL SCALE	DESIGNATION
	1902059 & 1902060
SURVEY BOOK	SHEETS
ELECTRONIC	10 of 13
CONTRACT	PROJECT
R-41841	1802967

