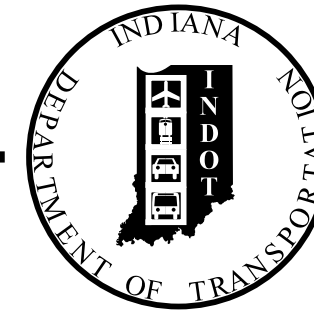


PROJECT	DESIGNATION
2101170	2101170
CONTRACT	BRIDGE FILE NO.
T-44014	N/A

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

ROUTE: SR 229

AT: RP 12+57

PROJECT NO.

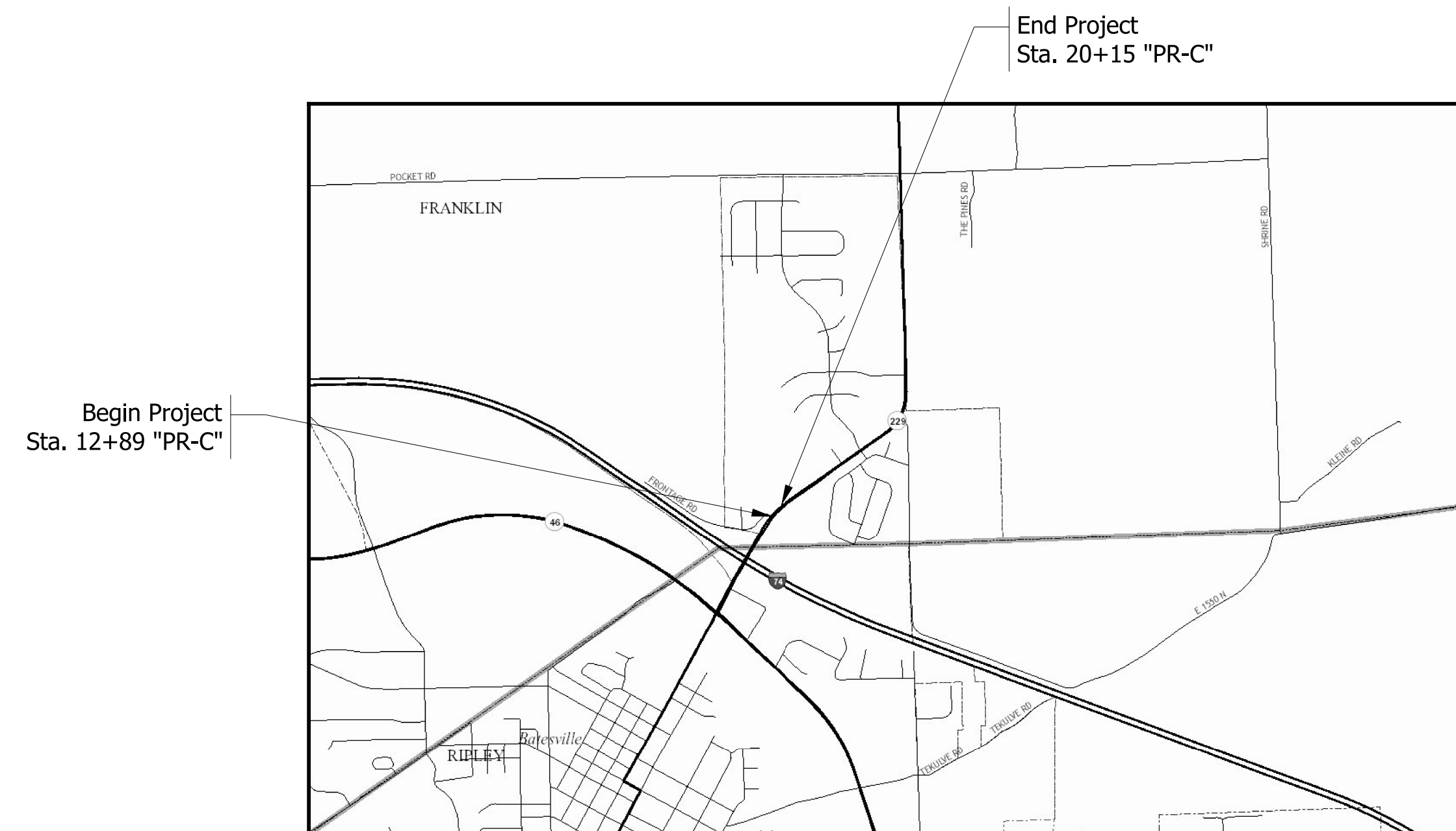
2101170

P.E.

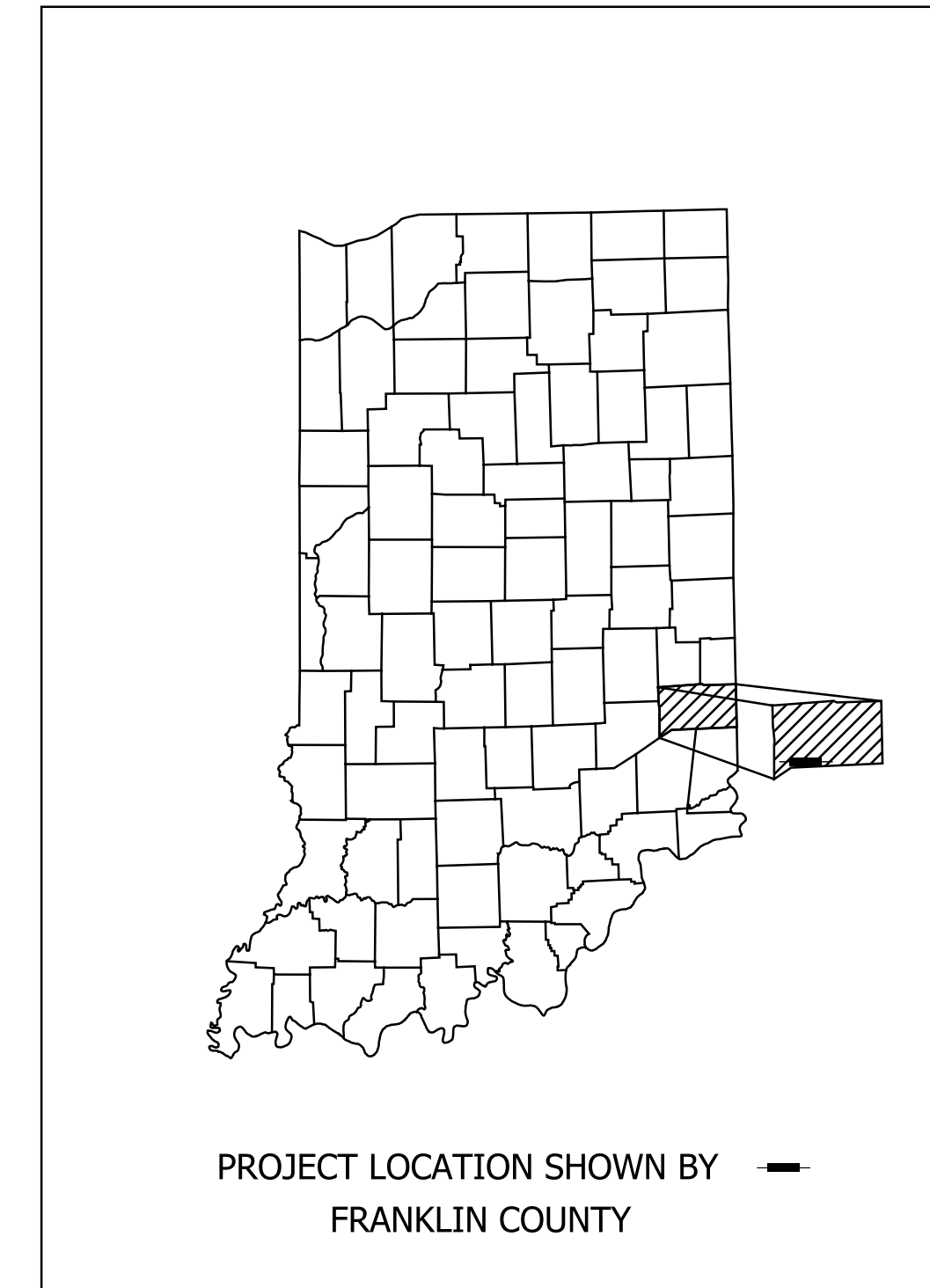
2101170

CONST.

Access Management on SR 229
In Section 17, T-10-N, R-12 E, Franklin County, Batesville, IN



TRAFFIC DATA		
A.A.D.T.	2024	11,791 V.P.D.
A.A.D.T.	2045	12,626 V.P.D.
D.H.V		9.07 %
DIRECTIONAL DISTRIBUTION		51 %
DESIGN DATA		
DESIGN SPEED		40 M.P.H.
PROJECT DESIGN CRITERIA		3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION		MINOR ARTERIAL
RURAL/URBAN		URBAN (INTERMEDIATE)
TERRAIN		LEVEL
ACCESS CONTROL		NONE



SCALE: 1" = 2500'

LATITUDE: 39° 18' 38" LONGITUDE: 85° 12' 51"

BRIDGE LENGTH: N/A MI.
ROADWAY LENGTH: 0.139 MI.
TOTAL LENGTH: 0.139 MI.
MAX. GRADE: 1.40 %

HUC: 05140101040040

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2024
TO BE USED WITH THESE PLANS

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

CERTIFIED BY: _____ DATE

APPROVED FOR LETTING: _____ DATE
INDIANA DEPARTMENT OF TRANSPORTATION

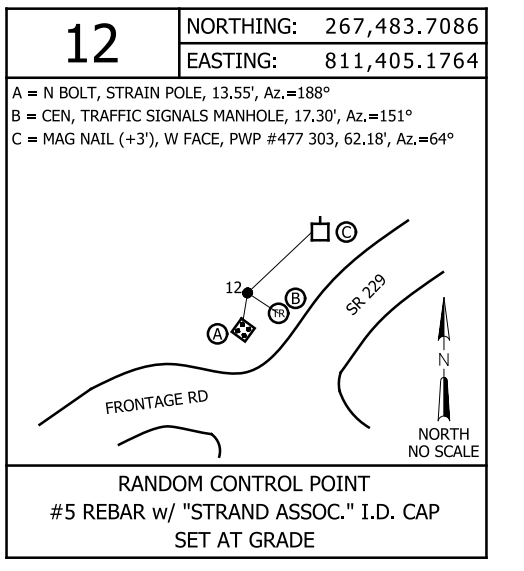
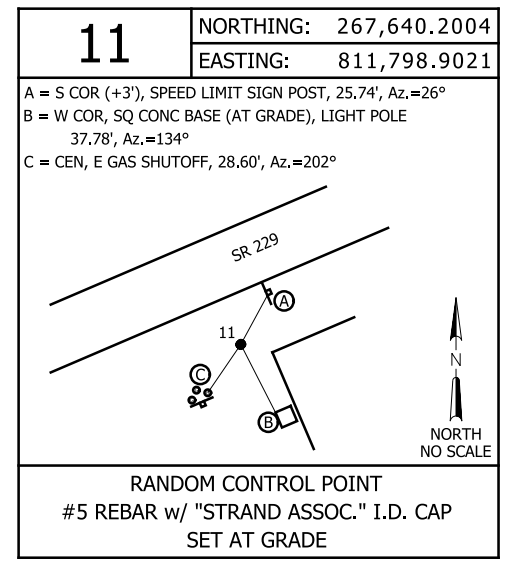
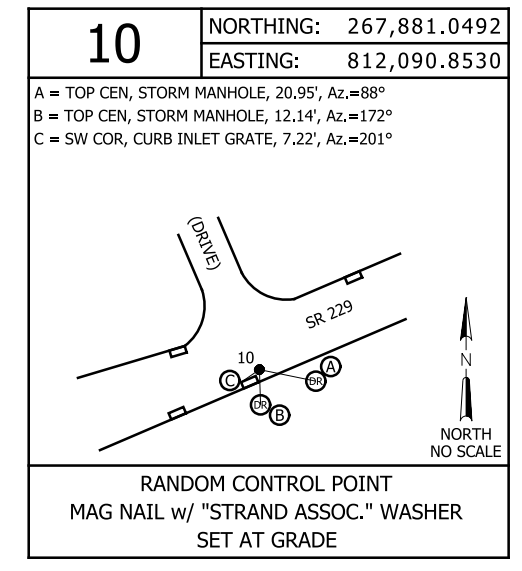
BRIDGE FILE NO.	
N/A	
DESIGNATION	
2101170	
SURVEY BOOK	SHEETS
	1 of 25
CONTRACT	PROJECT
T-44014	2101170

UTILITIES			
ELECTRIC:	Duke Energy Email: def-dline-coord@duke-energy.com ATTN: Cindy Rowland	COMMUNICATION:	ENHANCED TELECOMMUNICATIONS CORP PH: (812) 623-2911 EMAIL: ebeldersdorfer@gpcom.com ATTN: Ellen Beiersdorfer
WATER & GAS:	BATESVILLE WATER & GAS PH: (812) 934-3811 EMAIL: elaker@batesvilleindiana.us ATTN: Eric Laker		FRONTIER COMMUNICATIONS PH: (260) 461-3324 EMAIL: utilitycordreq@ftr.com ATTN: Joe Sarll

GENERAL NOTES

INDEX	
SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2	GENERAL NOTES AND INDEX
3-4	TYPICAL CROSS SECTION
5-6	MOT TYPICAL CROSS SECTION
7-12	MOT PLANS
13-14	PLAN AND PROFILE
15-16	CONSTRUCTION DETAIL
17-18	PAVEMENT MARKING DETAIL
19-20	MISCELLANEOUS TABLES
21-25	CROSS SECTIONS

REVISIONS		
SHEET NO.	DATE	REVISED



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER _____ DATE _____
DESIGNED: LRC	DRAWN: ACB
CHECKED: MAR	CHECKED: MAR

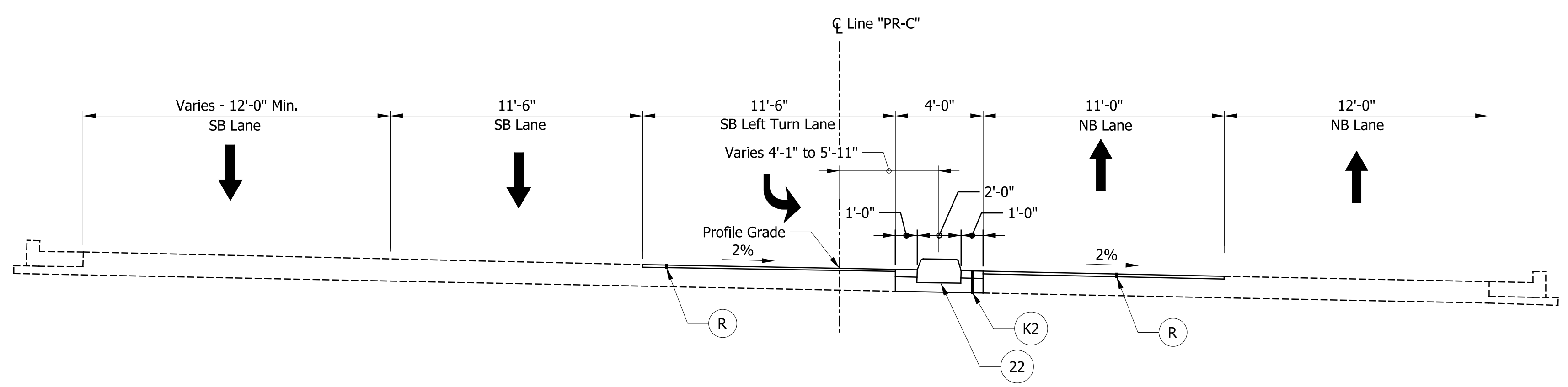
**INDIANA
DEPARTMENT OF TRANSPORTATION**

GENERAL NOTES AND INDEX

HORIZONTAL SCALE	BRIDGE FILE NO.
NA	N/A
VERTICAL SCALE	DESIGNATION NO.
NA	2101170
SURVEY BOOK NO.	SHEETS
	2 of 25
CONTRACT NO.	PROJECT NO.
T-44014	2101170

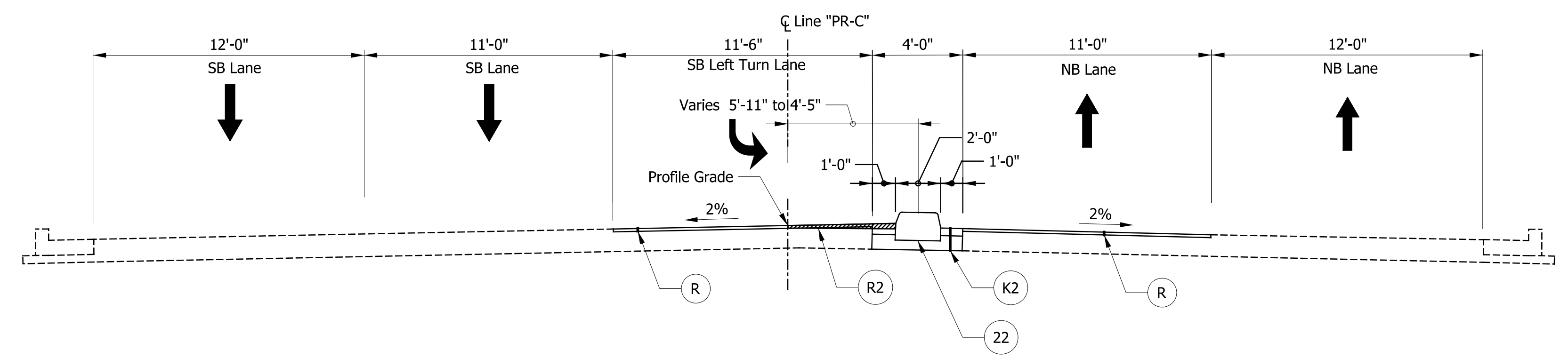
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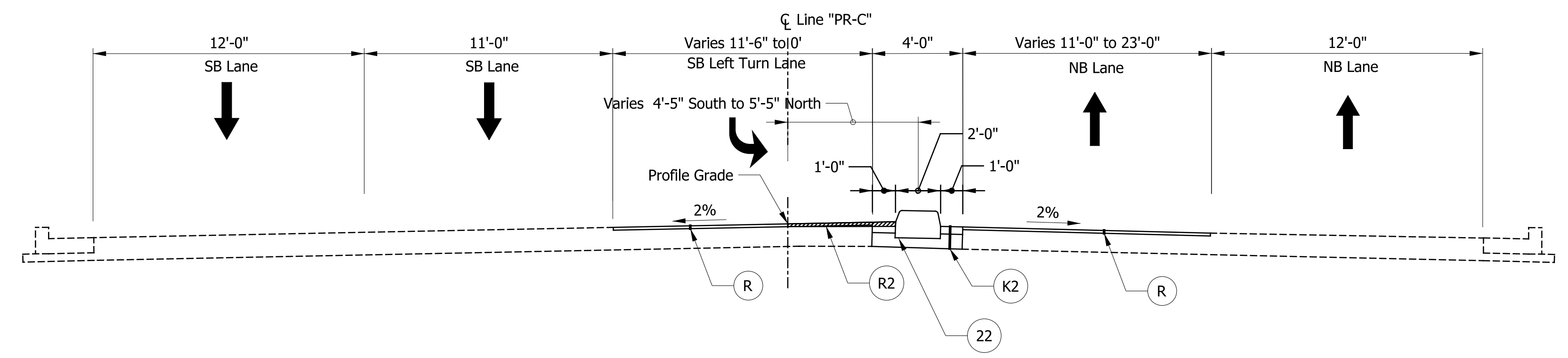


SUPERELEVATED SECTION - SR 229
 STA. 12+89 LINE "PR-C" TO STA. 15+03 LINE "PR-C"

NOTE: Superelevation Transition from Reverse Crown to Normal Crown begins at 14+89.96 "PR-C" and ends at 16+20.73 "PR-C".



TANGENT SECTION - SR 229
 STA. 15+03 LINE "PR-C" TO STA. 16+25 LINE "PR-C"



TANGENT SECTION - SR 229
 STA. 16+25 LINE "PR-C" TO STA. 17+10 LINE "PR-C"

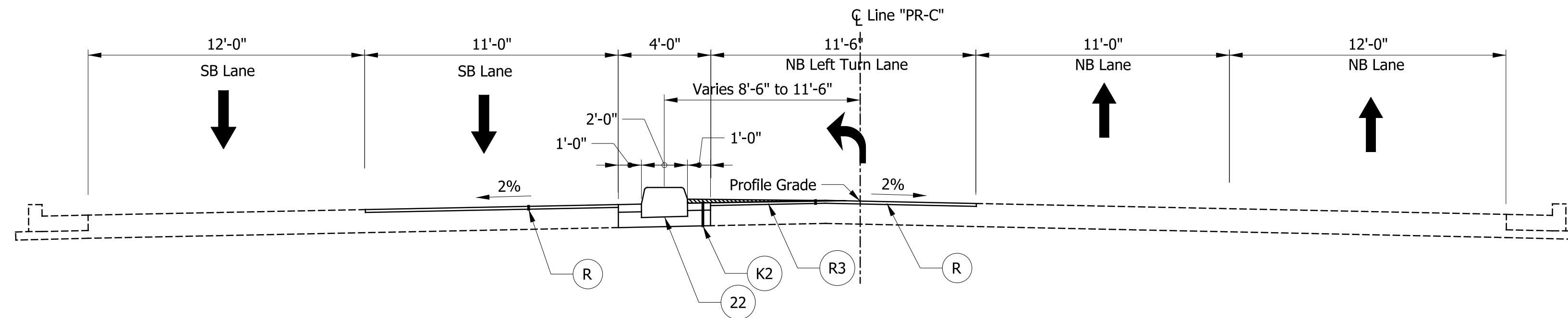
- LEGEND**
- (K) Widening with HMA, Type C consisting of:
 165#/SYD HMA Surface, Type C on
 275#/SYD HMA Intermediate, Type C on
 1210#/SYD HMA Base, Type C on
 6 Inches of Compacted Aggregate No. 53 on
 Subgrade Treatment, Type II with Biaxial Geogrid Type IB
 - (K2) HMA Patching, Type C consisting of:
 440#/SYD HMA, Intermediate, Type C on
 880#/SYD HMA, Base, Type C on
 Subgrade Treatment, Type II with Biaxial Geogrid Type IB
 - (R) HMA Milling, 1.5"
 65#/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
 Existing Pavement
 - (22) Concrete Center Curb, Type C
 - (R2) Wedge and Level Overlay
 Milling, Profile (Scarify Min., 1.5" Max.) to Cross Slope Raising Grade 1.5" to 0"
 220 to 165#/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
 Existing Pavement
 - (R3) Wedge and Level Overlay
 Milling, Profile (Scarify Min., 1.5" Max.) to Cross Slope Raising Grade 1.5" to 0"
 220 to 165#/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
 Existing Pavement

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB	
CHECKED: MAR	CHECKED: MAR	

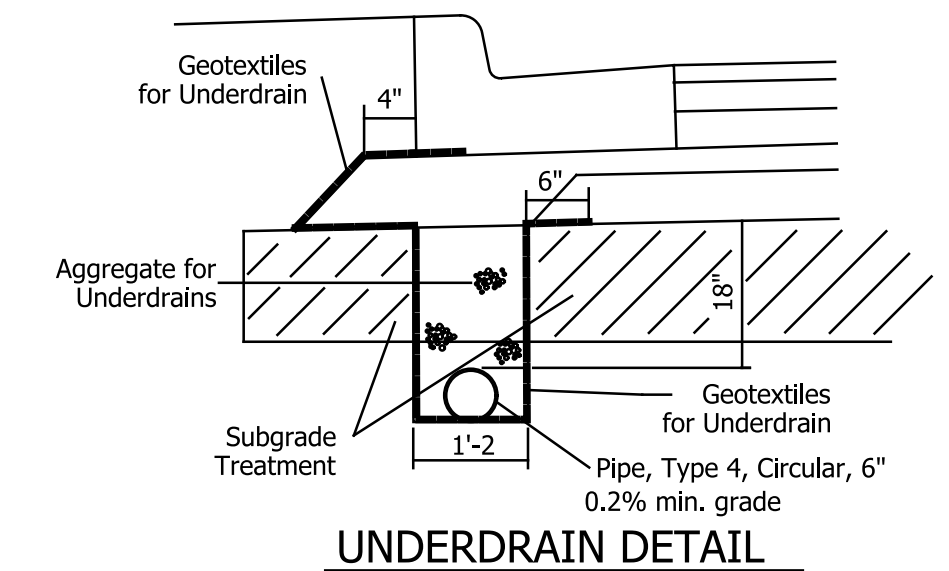
INDIANA
 DEPARTMENT OF TRANSPORTATION

 TYPICAL CROSS SECTIONS
 SR 229 - LINE "PR-C"

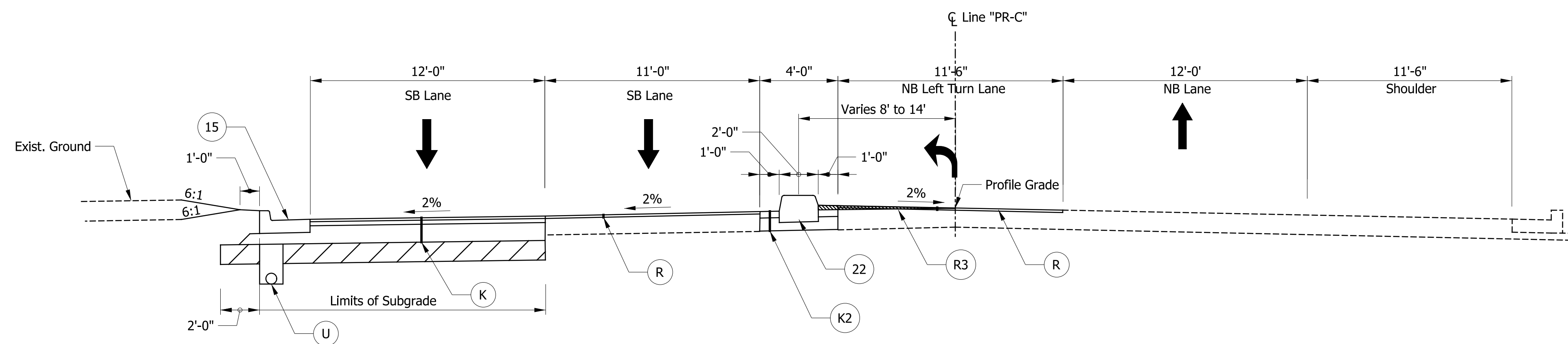
HORIZONTAL SCALE	BRIDGE FILE NO.
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION NO.
1/4" = 1'-0"	2101170
SURVEY BOOK NO.	SHEETS
	3 of 25
CONTRACT NO.	PROJECT NO.
T-44014	2101170



TANGENT SECTION - SR 229
STA. 17+10 LINE "PR-C" TO STA. 18+70 LINE "PR-C"



UNDERDRAIN DETAIL



TANGENT SECTION - SR 229
STA. 18+70 LINE "PR-C" TO STA. 20+15 LINE "PR-C"

LEGEND

- (K) Widening with HMA, Type C Consisting of:
165 #/SYD HMA Surface, Type C on
275 #/SYD HMA Intermediate, Type C on
1210 #/SYD HMA Base, Type C on
6 Inches of Compacted Aggregate No. 53 on
Subgrade Treatment, Type II with Biaxial Geogrid Type IB
- (K2) HMA Patching, Type C consisting of:
440 #/SYD HMA, Intermediate, Type C on
880 #/SYD HMA, Base, Type C on
Subgrade Treatment, Type II with Biaxial Geogrid Type IB
- (R) HMA Milling, 1.5"
165 #/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
Existing Pavement
- (22) Concrete Center Curb, Type C
- (R2) Wedge and Level Overlay
Milling, Profile (Scarify Min., 1.5" Max.) to Cross Slope Raising Grade 1.5" to 0"
220 to 165 #/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
Existing Pavement
- (R3) Wedge and Level Overlay
Milling, Profile (Scarify Min., 2.0" Max.) to Cross Slope Raising Grade 3" to 1.5"
165 #/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
220 #/SYD QC/QA HMA 3, 70, Intermediate, 12.5mm on
Existing Pavement
- (U) Underdrain (See Detail).

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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB	
CHECKED: MAR	CHECKED: MAR	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

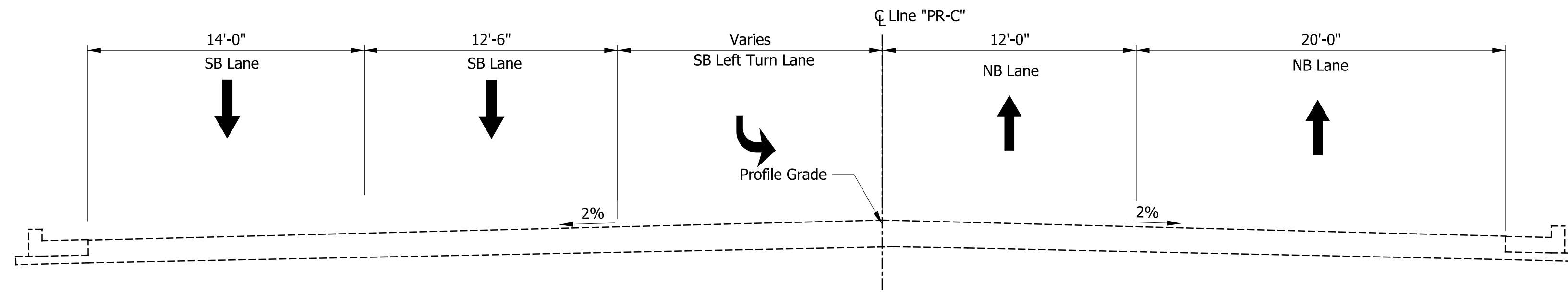
**TYPICAL CROSS SECTIONS
SR 229 - LINE "PR-C"**

HORIZONTAL SCALE	BRIDGE FILE NO.
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION NO.
1/4" = 1'-0"	2101170
SURVEY BOOK NO.	SHEETS
	4 of 25
CONTRACT NO.	PROJECT NO.
T-44014	2101170

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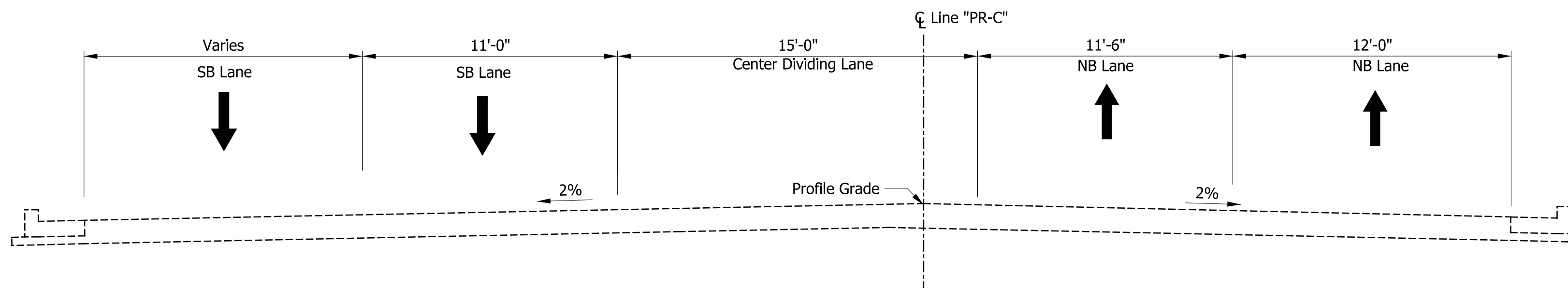


PHASE 1 - SR 229

STA. 12+83 LINE "PR-C" TO STA. 15+34 LINE "PR-C"

SB Left Turn Lane:

Sta: 14+65 , Width: 14'-0" - Sta: 15+34 , Width: 0'

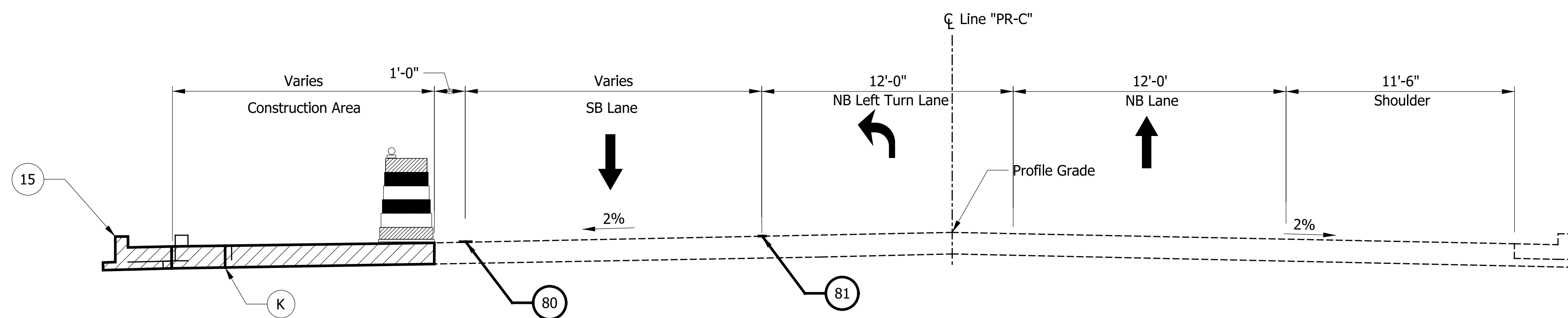


PHASE 1 - SR 229

STA. 15+34 LINE "PR-C" TO STA. 18+95 LINE "PR-C"

SB Left Thru Lane:

Sta: 14+65 , Width: 16'-0" - Sta: 17+99 , Width: 11'-6"
Sta: 17+99 , Width: 11'-6" - Sta: 18+95 , Width: 0'



PHASE 1 - SR 229

STA. 18+95 LINE "PR-C" TO STA. 20+29 LINE "PR-C"

SB Left Thru Lane:

Sta: 18+95 , Width: 12'-0" - Sta: 20+29 , Width: 10'-0"

SB Left Thru Lane:

Sta: 18+95 , Width: 7'-0" - Sta: 20+29 , Width: 26'-0"

LEGEND

- K HMA Widening, Type C
- 15 Concrete Curb and Gutter, Combined
- 80 Temporary Pavement Marking, White, Solid, 4"
- 81 Temporary Pavement Marking, Yellow, Solid, 4"
- Construction Area

RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB
CHECKED: MAR	CHECKED: MAR

INDIANA DEPARTMENT OF TRANSPORTATION

MOT TYPICAL CROSS SECTIONS

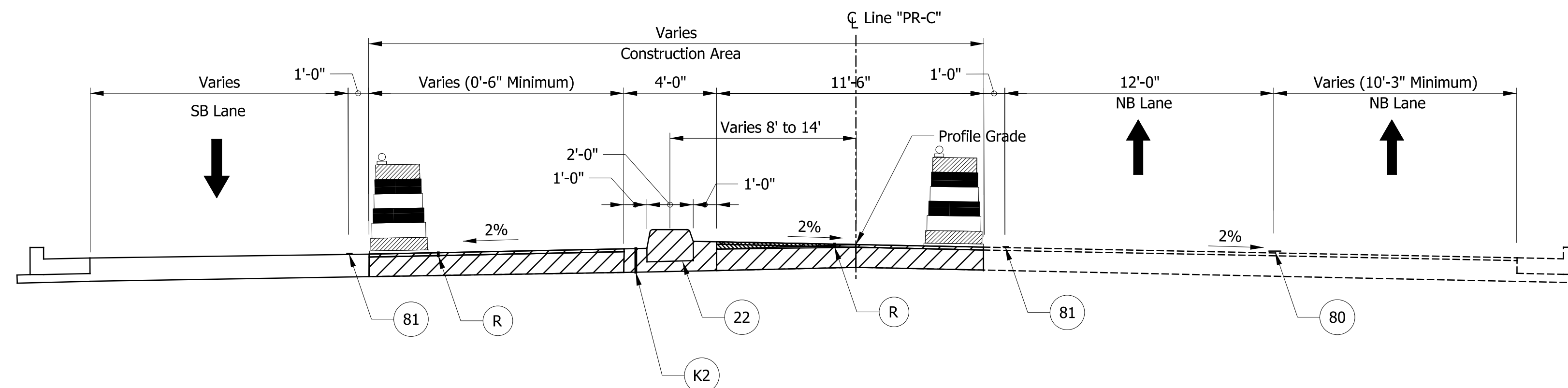
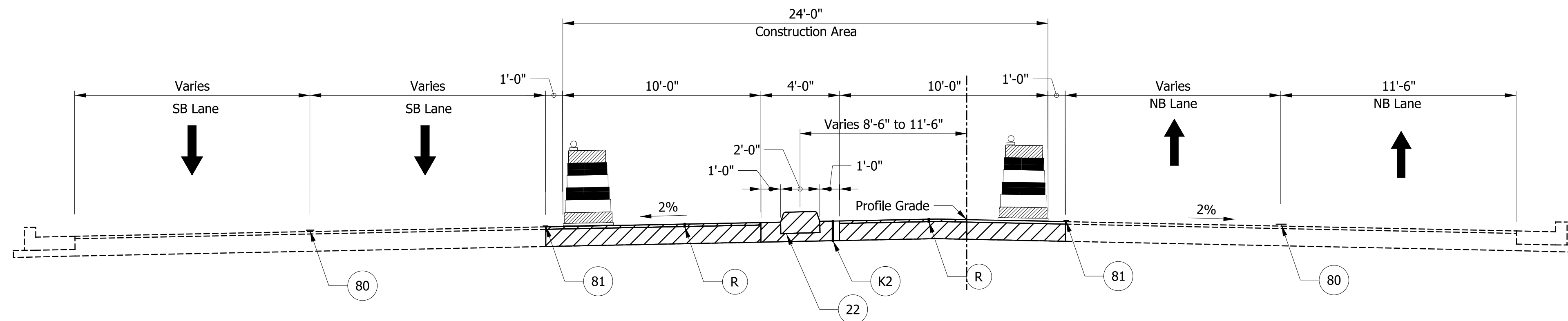
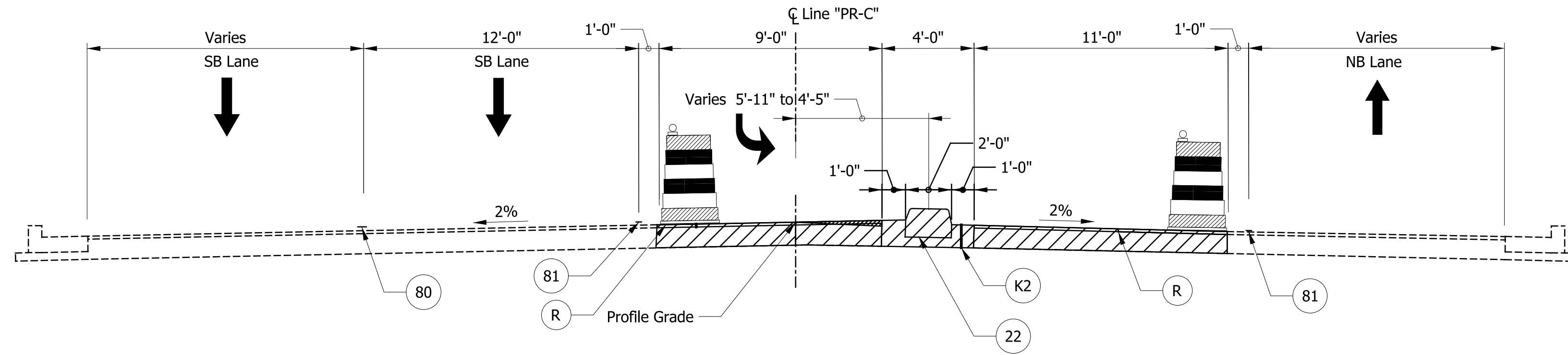
SR 229 - LINE "A"

HORIZONTAL SCALE	BRIDGE FILE NO.
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION NO.
1/4" = 1'-0"	2101170
SURVEY BOOK NO.	SHEETS
	5 of 25
CONTRACT NO.	PROJECT NO.
T-44014	2101170

March 2:09:46 PM

9/18/2023

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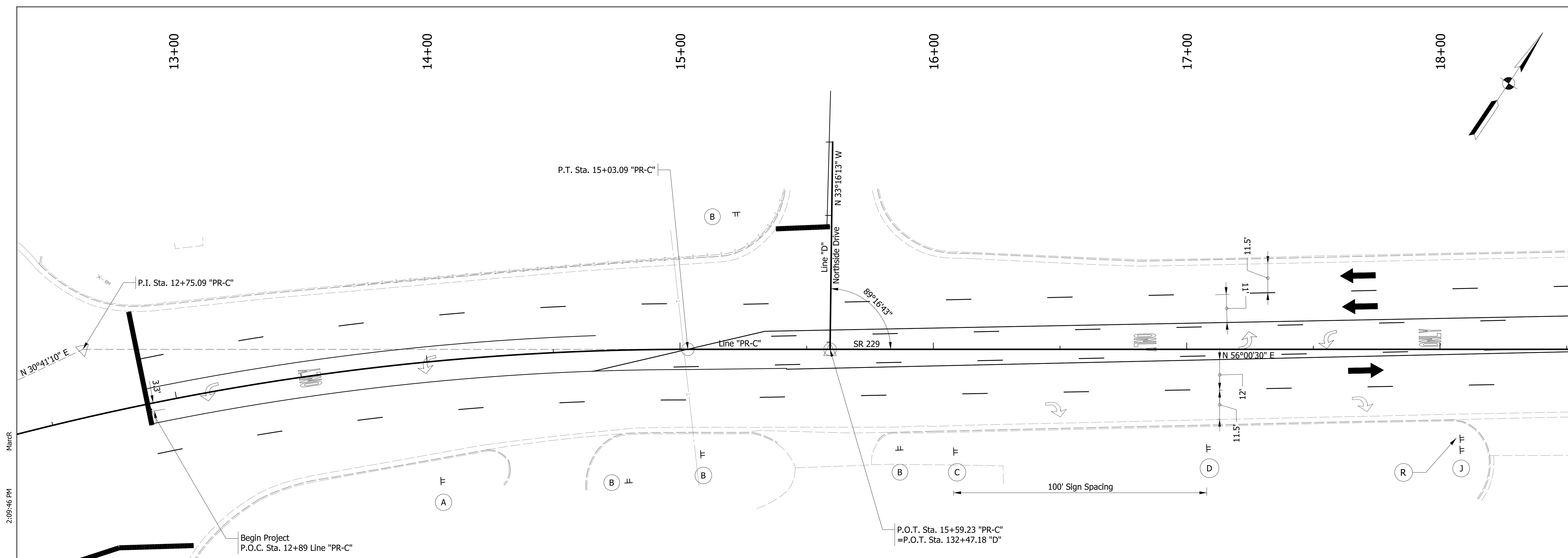
- LEGEND**
- (K2) HMA Patching, Type C
 - (R) 1-1/2" Milling/Resurface
 - (15) Concrete Curb and Gutter, Combined
 - (22) Concrete Center Curb, Type C
 - (80) Temporary Pavement Marking, White, Solid, 4"
 - (81) Temporary Pavement Marking, Yellow, Solid, 4"
 - [Hatched Box] Construction Area

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB	
CHECKED: MAR	CHECKED: MAR	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**MOT TYPICAL CROSS SECTIONS
SR 229 - LINE "A"**

HORIZONTAL SCALE	BRIDGE FILE NO.
1/4" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION NO.
1/4" = 1'-0"	2101170
SURVEY BOOK NO.	SHEETS
	6 of 25
CONTRACT NO.	PROJECT NO.
T-44014	2101170



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LEGEND

- 80 Temporary Pavement Marking, Paint, Solid, White, 4"
- 81 Temporary Pavement Marking, Paint, Solid, Yellow, 4"
- 82 Temporary Pavement Marking, Paint, Broken, White, 4"
- Construction Sign
- Temporary Pavement Message Marking, Lane Indication Arrow
- Barricade
- Channelizing Device
- Direction of Traffic
- Construction Area
- Existing Pavement Message Marking, Lane Indication Arrow
- Existing Pavement Message Marking, Lane Indication Arrow

		WORKSITE				WORKSITE	
		XG20-5P 24" x 18"				XG20-5P 24" x 18"	
Speeding Max \$1000 Reckless Driving Max 6 Yrs		ROAD CONSTRUCTION AHEAD		SPEED LIMIT 30		RIGHT LANE MUST TURN RIGHT	
XW2-6-A 78" x 42"		XW20-1 36" x 36"		XW3-5 36" x 36"		R3-7 (R) 30" x 30"	
A		B		C		D	
LANE ENDS MERGE RIGHT		LEFT LANE MUST TURN LEFT		CENTER LANE CLOSED AHEAD		LEFT LANE CLOSED AHEAD	
XW9-2-A (R or L) 36" x 36"		XW4-2 (R or L) 36" x 36"		R3-7 (L) 30" x 30"		XW20-5 (L) 36" x 36"	
I		J		K		L	
		XW1-4-B (R) 36" x 36"		XW1-4-C (L) 36" x 36"		R2-1 24" x 30"	
		F		G		H	
		XW1-4-A (L) 36" x 36"		W06-1b 36" x 36"			
		N		O			

Construction Zone Design Speed = 30 mph.

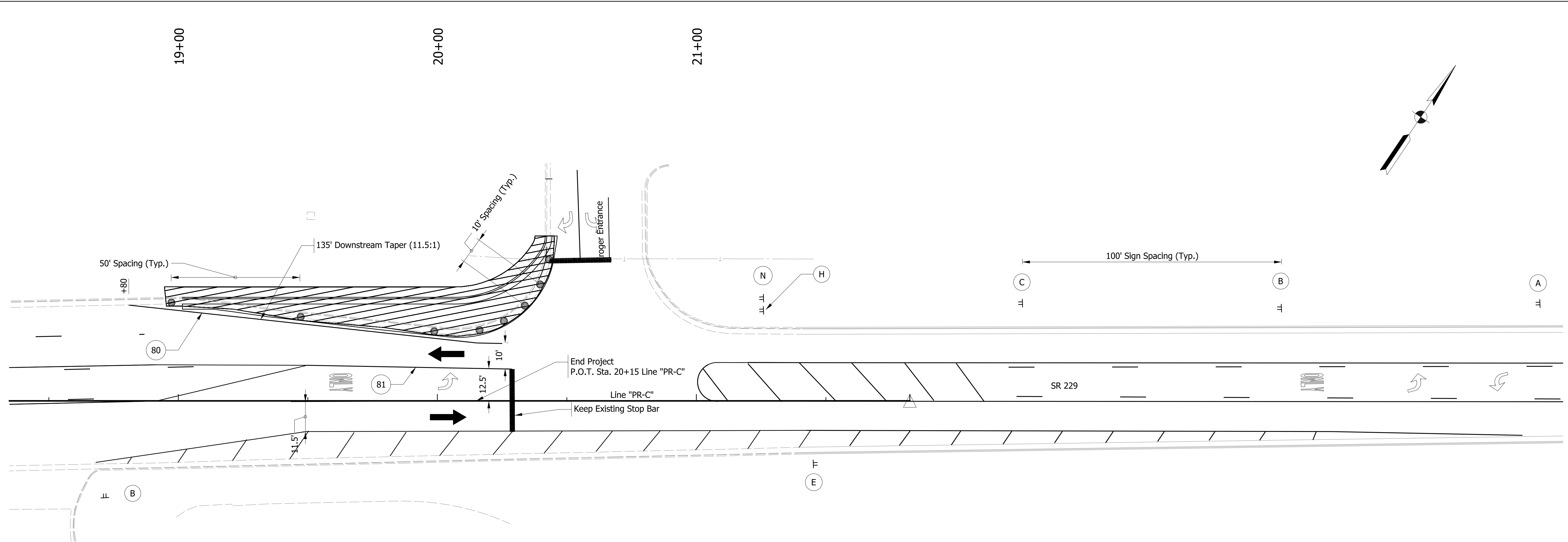
GENERAL NOTES

1. Access shall be maintained to all businesses and side streets throughout construction.
2. Cover signs that conflict with current MOT Phase.
3. 100' Spacing will be the Typical Sign Spacing for All Phases.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION MAINTENANCE OF TRAFFIC PHASE I S.R. 229 - LINE "PR-C"	HORIZONTAL SCALE 1" = 20' VERTICAL SCALE NA SURVEY BOOK NO. T-44014 BRIDGE FILE NO. N/A DESIGNATION NO. 2101170 SHEETS 7 of 25 PROJECT NO. 2101170
DESIGNED: LRC CHECKED: MAR	DRAWN: ACB CHECKED: MAR	

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LEGEND

- 80 Temporary Pavement Marking, Paint, Solid, White, 4"
- 81 Temporary Pavement Marking, Paint, Solid, Yellow, 4"
- 82 Temporary Pavement Marking, Paint, Broken, White, 4"
- Construction Sign
- Temporary Pavement Message Marking, Lane Indication Arrow
- Barricade
- Channelizing Device
- Direction of Traffic
- Construction Area
- Existing Pavement Message Marking, Lane Indication Arrow
- Existing Pavement Message Marking, Lane Indication Arrow

	WORKSITE XG20-5P 24" x 18"									WORKSITE XG20-5P 24" x 18"
XW2-6-A 78" x 42"	XW20-1 36" x 36"	XW3-5 36" x 36"	R3-7 (R) 30" x 30"	E	XW1-4c (R) 36" x 36"	XW1-4c (L) 36" x 36"	R2-1 24" x 30"			
A	B	C	D		F	G	H			
XW9-2-A (R or L) 36" x 36"	XW4-2 (R or L) 36" x 36"	R3-7 (L) 30" x 30"	XW20-5 (C) 36" x 36"	XW20-5 (L) 36" x 36"	XW1-4-A (L) 36" x 36"	W06-1b 36" x 36"				
I	J	K	L	M	N	O				

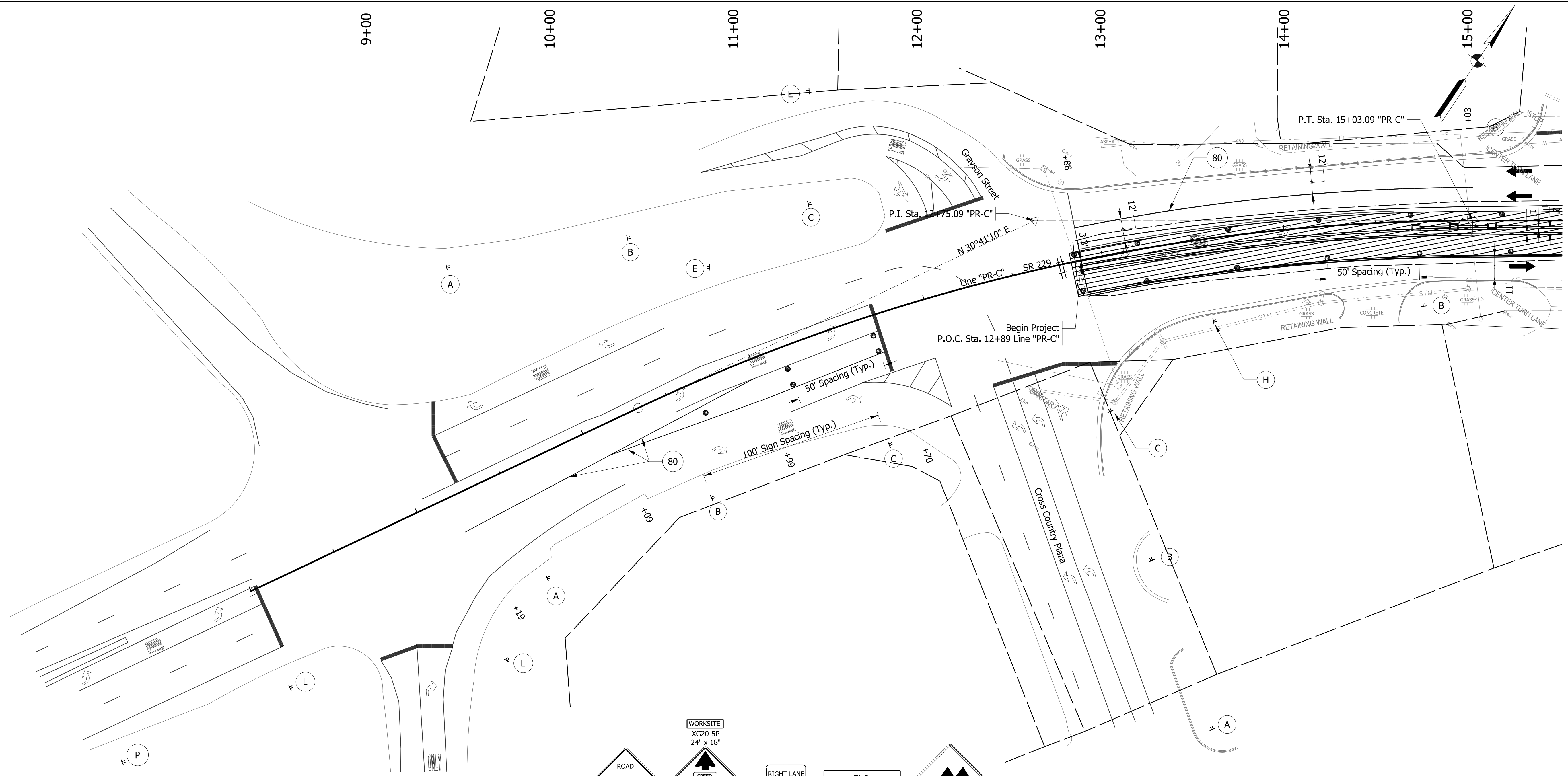
Construction Zone Design Speed = 30 mph.

GENERAL NOTES

1. Access shall be maintained to all businesses and side streets throughout construction.
2. Cover signs that conflict with current MOT Phase.
3. 100' Spacing will be the Typical Sign Spacing for All Phases.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION MAINTENANCE OF TRAFFIC PHASE I S.R. 229 - LINE "PR-C"	HORIZONTAL SCALE 1" = 20' VERTICAL SCALE NA SURVEY BOOK NO. T-44014 BRIDGE FILE NO. N/A DESIGNATION NO. 2101170 SHEETS 8 of 25 PROJECT NO. 2101170
DESIGNED: LRC DRAWN: ACB CHECKED: MAR CHECKED: MAR		

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- LEGEND**
- 80 Temporary Pavement Marking, Paint, Solid, White, 4"
 - 81 Temporary Pavement Marking, Paint, Solid, Yellow, 4"
 - 82 Temporary Pavement Marking, Paint, Broken, White, 4"
 - Construction Sign
 - Temporary Pavement Message Marking, Lane Indication Arrow
 - Barricade
 - Channelizing Device
 - Direction of Traffic
 - Construction Area
 - Existing Pavement Message Marking, Lane Indication Arrow
 - Existing Pavement Message Marking, Lane Indication Arrow

Grayson St. MIDDLE LANE
SR 229 NB RIGHT LANE
30" x 72"

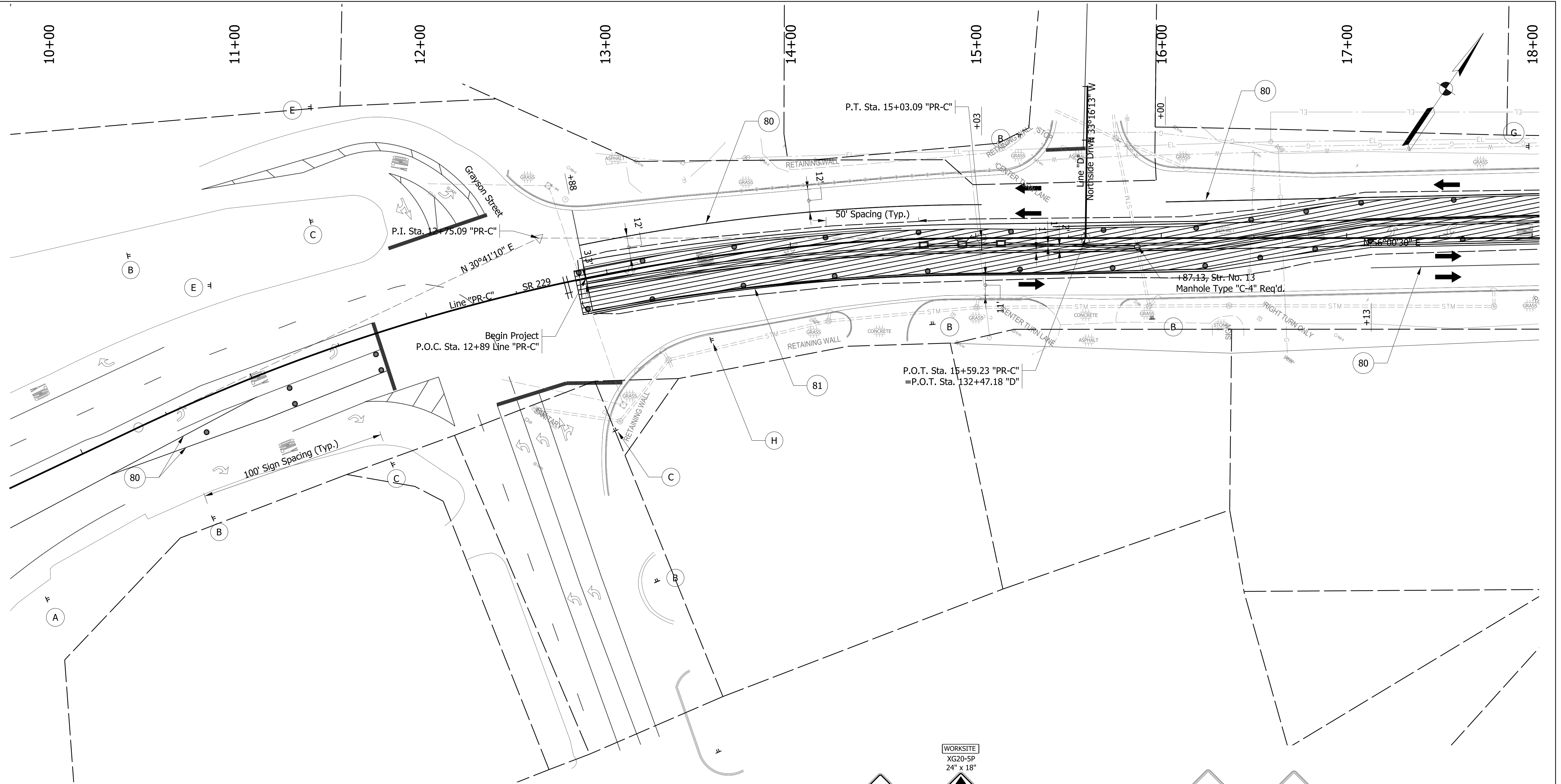
Construction Zone Design Speed = 30 mph.

- GENERAL NOTES**
- Access shall be maintained to all businesses and side streets throughout construction.
 - Cover signs that conflict with current MOT Phase.
 - 100' Spacing will be the Typical Sign Spacing for All Phases.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB	
CHECKED: MAR	CHECKED: MAR	

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE II
S.R. 229 - LINE "PR-C"

HORIZONTAL SCALE	BRIDGE FILE NO.
1" = 30'	N/A
VERTICAL SCALE	DESIGNATION NO.
NA	2101170
SURVEY BOOK NO.	SHEETS
	9 of 25
CONTRACT NO.	PROJECT NO.
T-44014	2101170



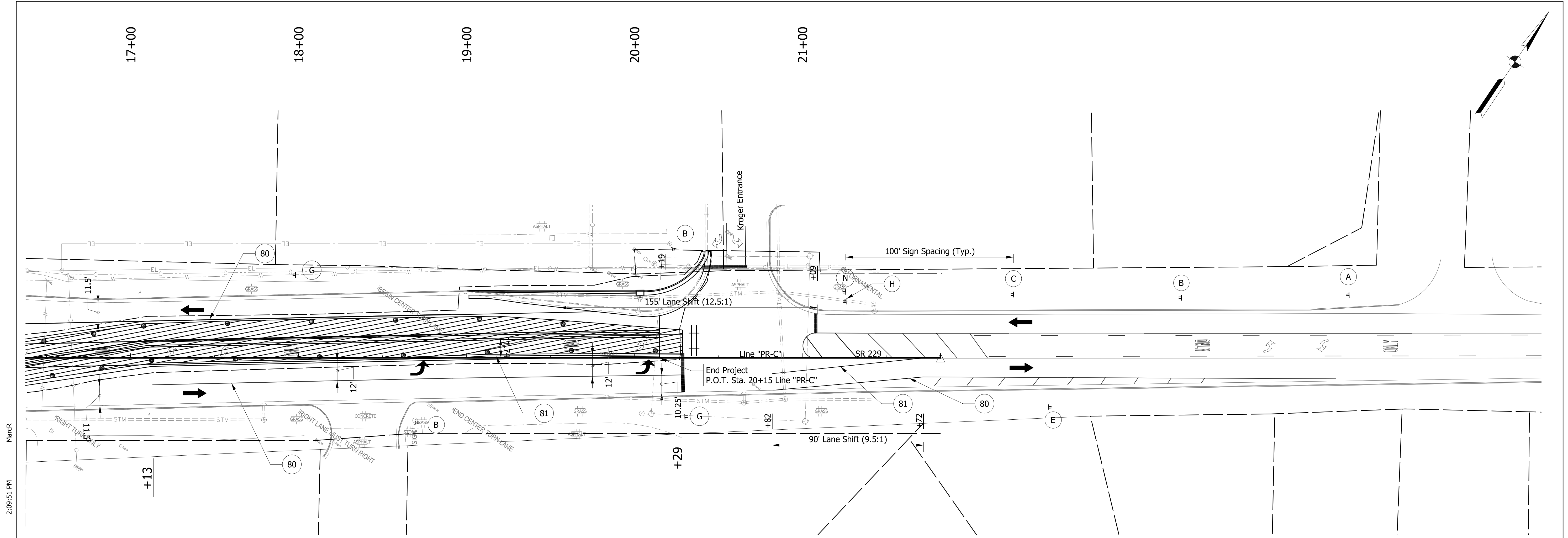
LEGEND

	Temporary Pavement Marking, Paint, Solid, White, 4"		Barricade
	Temporary Pavement Marking, Paint, Solid, Yellow, 4"		Channelizing Device
	Temporary Pavement Marking, Paint, Broken, White, 4"		Direction of Traffic
	Construction Sign		Construction Area
	Temporary Pavement Message Marking, Lane Indication Arrow		Existing Pavement Message Marking, Lane Indication Arrow
			Existing Pavement Message Marking, Lane Indication Arrow

Construction Zone Design Speed = 30 mph.

- GENERAL NOTES**
- Access shall be maintained to all businesses and side streets throughout construction.
 - Cover signs that conflict with current MOT Phase.
 - 100' Spacing will be the Typical Sign Spacing for All Phases.

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION MAINTENANCE OF TRAFFIC PHASE II S.R. 229 - LINE "PR-C"		HORIZONTAL SCALE 1" = 20'		BRIDGE FILE NO. N/A	
DESIGNED: LRC		DRAWN: ACB				VERTICAL SCALE NA		DESIGNATION NO. 2101170	
CHECKED: MAR		CHECKED: MAR				SURVEY BOOK NO.		SHEETS 10 of 25	
						CONTRACT NO. T-44014		PROJECT NO. 2101170	



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- LEGEND**
- 80 Temporary Pavement Marking, Paint, Solid, White, 4"
 - 81 Temporary Pavement Marking, Paint, Solid, Yellow, 4"
 - 82 Temporary Pavement Marking, Paint, Broken, White, 4"
 - Construction Sign
 - Temporary Pavement Message Marking, Lane Indication Arrow
 - Barricade
 - Channelizing Device
 - Direction of Traffic
 - Construction Area
 - Existing Pavement Message Marking, Lane Indication Arrow
 - Existing Pavement Message Marking, Lane Indication Arrow

WORKSITE XG20-5P 24" x 18"						
 XW2-6-A 78" x 42"	 XW20-1 36" x 36"	 XW3-5 36" x 36"	 R3-7 (R) 30" x 30"	 END CONSTRUCTION	 XWI-4-B (R) 36" x 36"	 XWI-4c (L) 36" x 36"
A	B	C	D	E	F	G
 XW9-2-A (R or L) 36" x 36"	 XW4-2 (R or L) 36" x 36"	 R3-7 (L) 30" x 30"	 XW20-5 (C) 36" x 36"	 XW20-5 (L) 36" x 36"	 XWI-4-A (L) 36" x 36"	
I	J	K	L	M	N	

Construction Zone Design Speed = 30 mph.

GENERAL NOTES

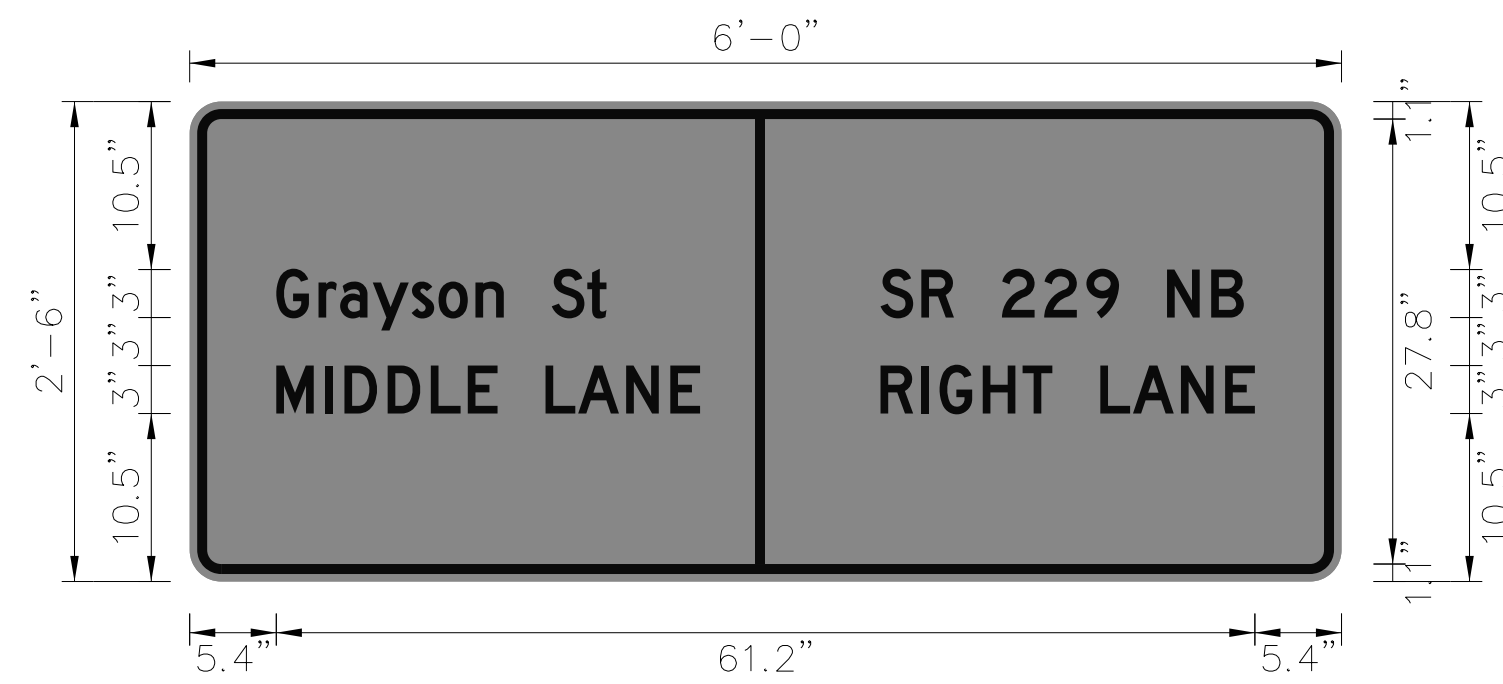
1. Access shall be maintained to all businesses and side streets throughout construction.
2. Cover signs that conflict with current MOT Phase.
3. 100' Spacing will be the Typical Sign Spacing for All Phases.

RECOMMENDED FOR APPROVAL _____	
DESIGNED: LRC	DRAWN: ACB
CHECKED: MAR	CHECKED: MAR

INDIANA DEPARTMENT OF TRANSPORTATION
MAINTENANCE OF TRAFFIC PHASE II
S.R. 229 - LINE "PR-C"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE NO. N/A
VERTICAL SCALE NA	DESIGNATION NO. 2101170
SURVEY BOOK NO.	SHEETS 11 of 25
CONTRACT NO. T-44014	PROJECT NO. 2101170

SIGN DETAIL
1:20



Panel Style: construction_guide.ssi
Dimensions are in inches.tenths

Letter locations are panel edge to lower left corner

SIGN NUMBER	name
WIDTH x HGHT.	6'-0" x 2'-6"
BORDER WIDTH	0.63"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND	TYPE: Reflective
	COLOR: Orange
LEGEND/BORDER	TYPE: Reflective
	COLOR: Black/Black

SYMBOL	ROT	X	Y	WID	HT

LETTER POSITIONS (X)											LENGTH	SERIESSIZE
G	r	a	y	s	o	n	S	t				D 2000
5.4	8.1	9.4	11.4	13.9	15.6	17.9	19.6	22.6	24.9		20.6	3/2.3
S	R		2	2	9		N	B				D 2000
43.2	45.7	47.8	50.8	53.4	56.1	58.1	61.1	63.9			22.7	3
M	I	D	D	L	E		L	A	N	E		D 2000
5.4	8.5	9.7	12.4	15.1	17.4	19.2	22.2	24.3	27.3	30	26.5	3
R	I	G	H	T		L	A	N	E			D 2000
43.2	45.7	46.9	49.6	52.1	53.9	56.9	59	62	64.7		23.4	3

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB	
CHECKED: MAR	CHECKED: MAR	

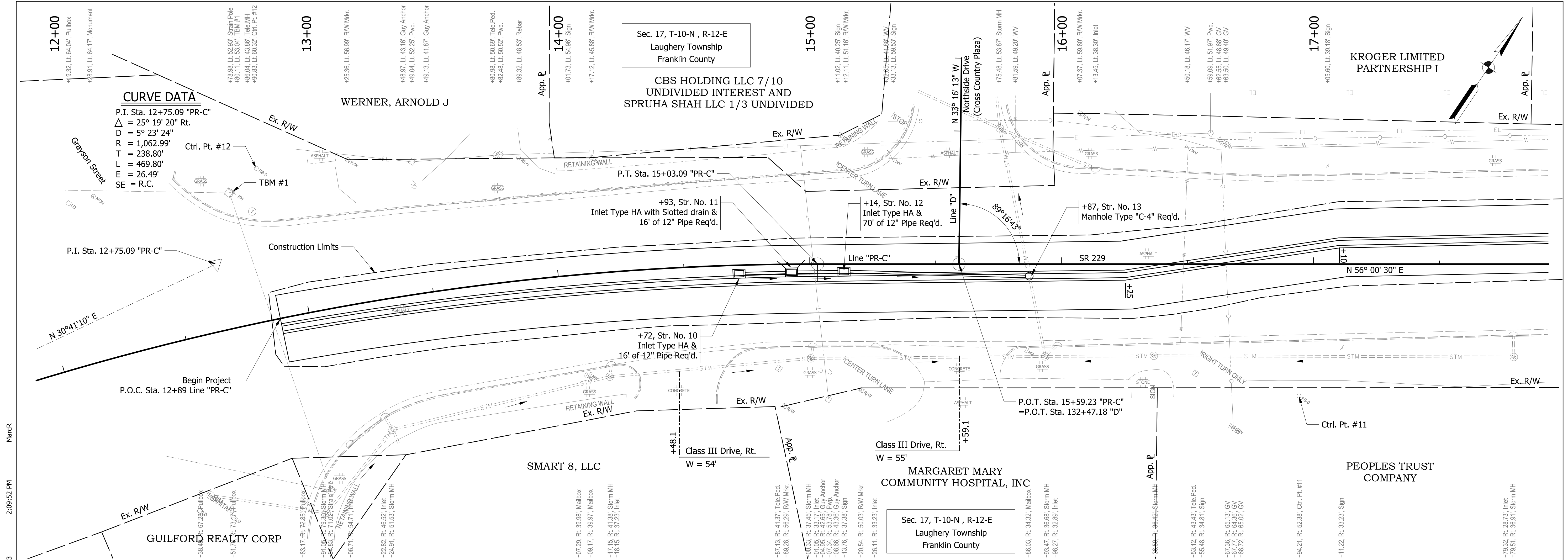
INDIANA DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC SIGN DETAIL

SR 229 - LINE "PR-C"

HORIZONTAL SCALE	BRIDGE FILE NO.
1" = 1'-0"	N/A
VERTICAL SCALE	DESIGNATION NO.
NA	2101170
SURVEY BOOK NO.	SHEETS
	12 of 25
CONTRACT NO.	PROJECT NO.
T-44014	2101170

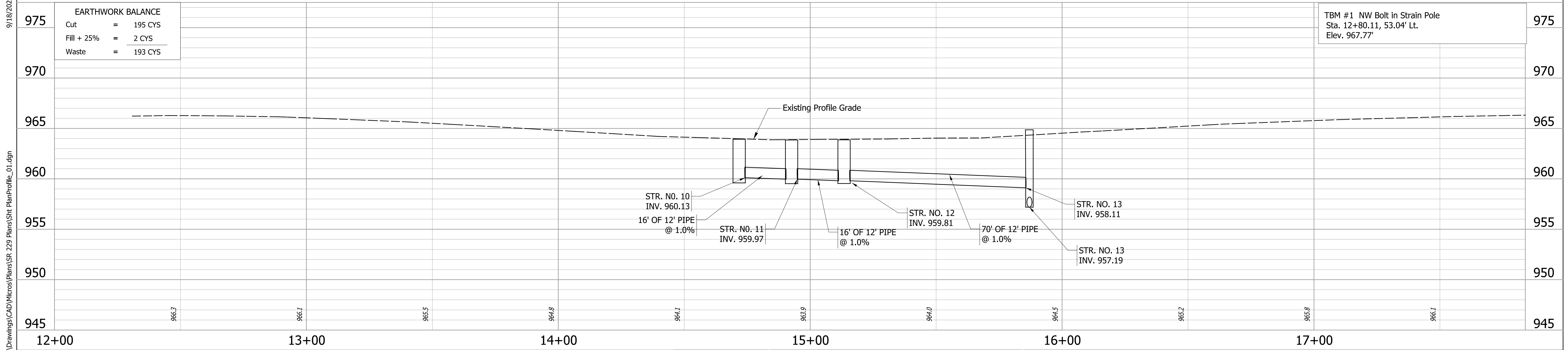
STA. 15+59.23 "PR-C"
Street Approach, Lt.



CURVE DATA
 P.I. Sta. 12+75.09 "PR-C"
 $\Delta = 25^\circ 19' 20''$ Rt.
 $D = 5^\circ 23' 24''$
 $R = 1,062.99'$
 $L = 238.80'$
 $E = 26.49'$
 $SE = R.C.$

EARTHWORK BALANCE	
Cut	= 195 CYS
Fill + 25%	= 2 CYS
Waste	= 193 CYS

TBM #1 NW Bolt in Strain Pole
 Sta. 12+80.11, 53.04' Lt.
 Elev. 967.77'



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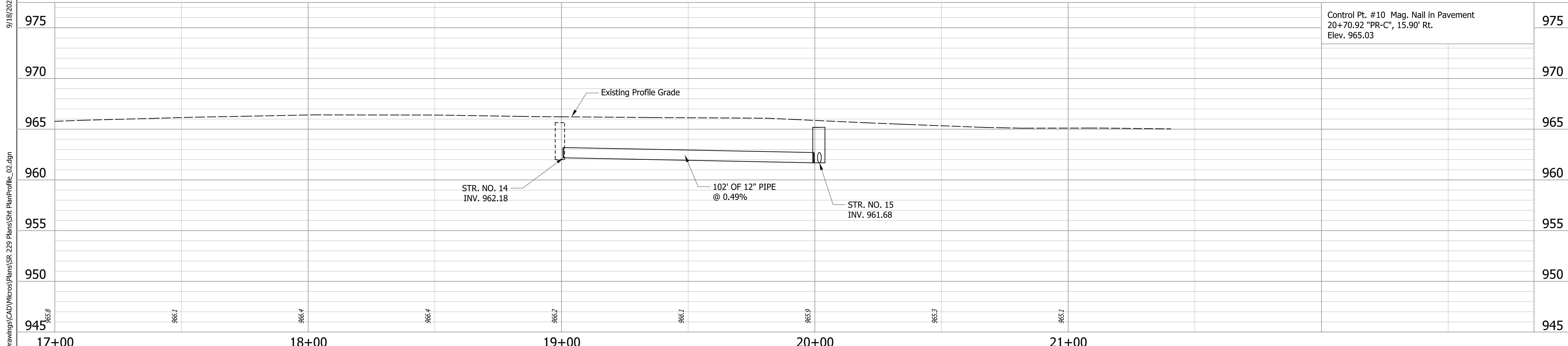
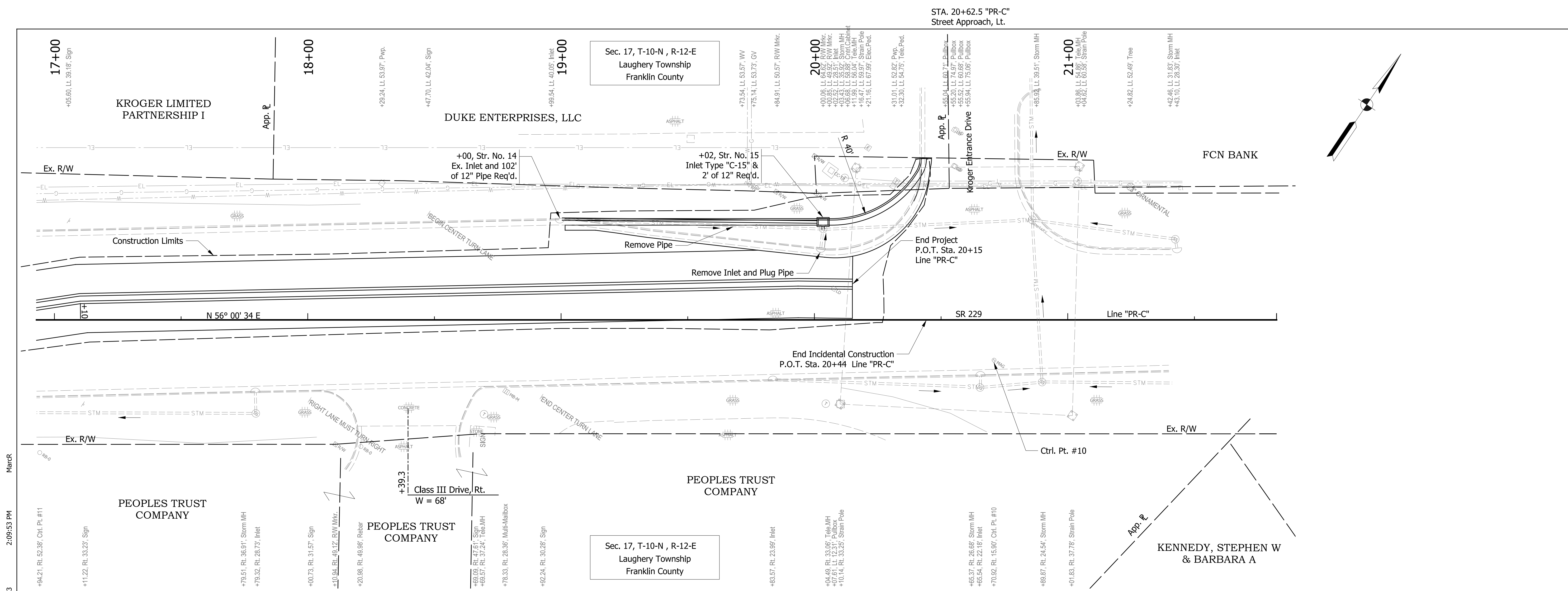
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB	
CHECKED: MAR	CHECKED: MAR	

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
S.R. 229 - LINE "PR-C"

HORIZONTAL SCALE	BRIDGE FILE NO.
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION NO.
1" = 5'	2101170
SURVEY BOOK NO.	SHEETS
	13 of 25
CONTRACT NO.	PROJECT NO.
T-44014	2101170

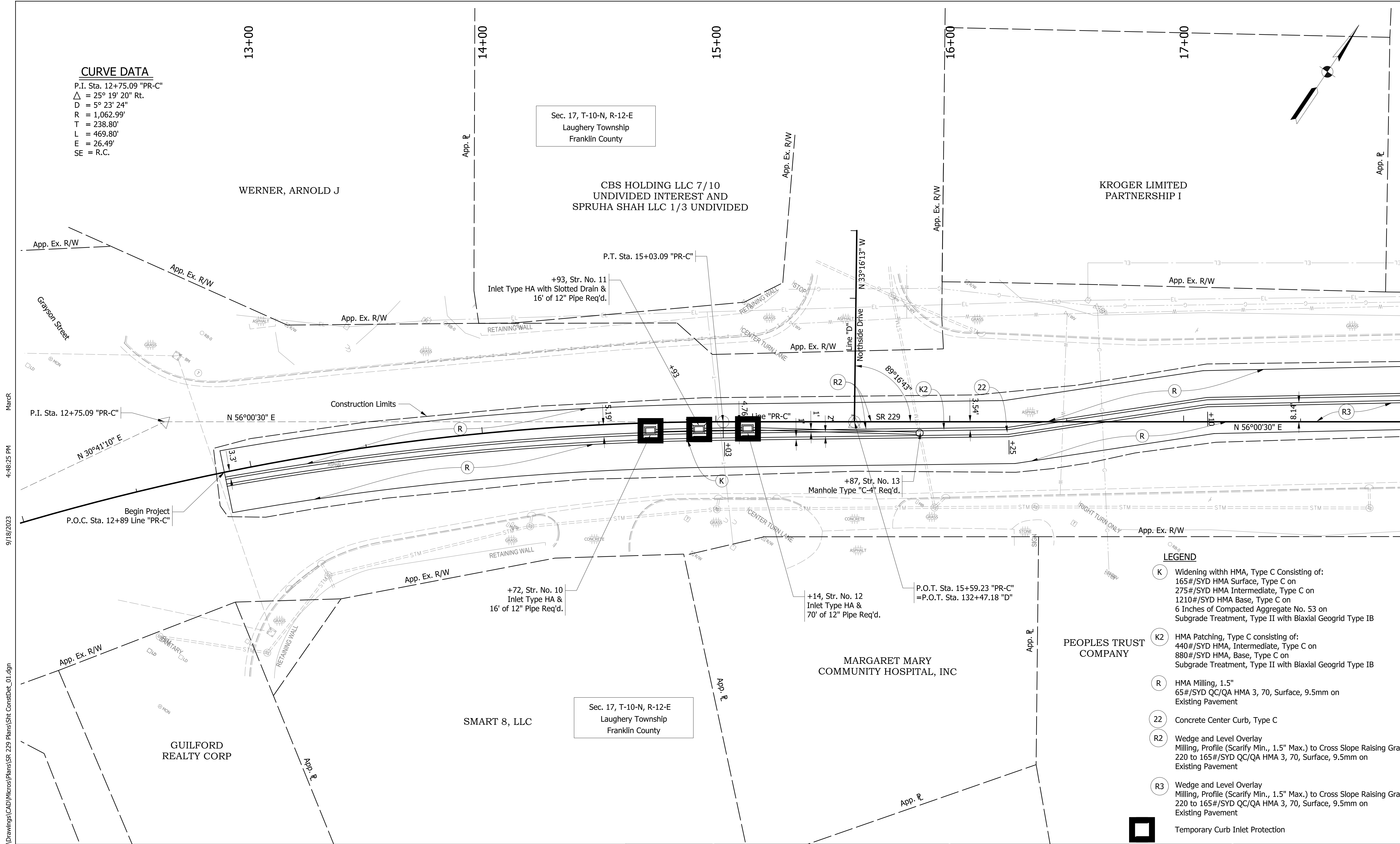
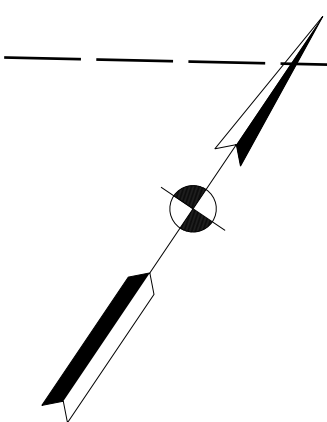


RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION PLAN AND PROFILE S.R. 229 - LINE "PR-C"	HORIZONTAL SCALE 1" = 20' VERTICAL SCALE 1" = 5'	BRIDGE FILE NO. N/A DESIGNATION NO. 2101170
DESIGNED: LRC CHECKED: MAR	DRAWN: ACB CHECKED: MAR		SURVEY BOOK NO. T-44014	SHEETS 14 of 25 PROJECT NO. 2101170

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CURVE DATA

P.I. Sta. 12+75.09 "PR-C"
 $\Delta = 25^\circ 19' 20''$ Rt.
 $D = 5^\circ 23' 24''$
 $R = 1,062.99'$
 $T = 238.80'$
 $L = 469.80'$
 $E = 26.49'$
 $SE = R.C.$



LEGEND

- (K)** Widening with HMA, Type C Consisting of:
 165#/SYD HMA Surface, Type C on
 275#/SYD HMA Intermediate, Type C on
 1210#/SYD HMA Base, Type C on
 6 Inches of Compacted Aggregate No. 53 on
 Subgrade Treatment, Type II with Biaxial Geogrid Type IB
- (K2)** HMA Patching, Type C consisting of:
 440#/SYD HMA, Intermediate, Type C on
 880#/SYD HMA, Base, Type C on
 Subgrade Treatment, Type II with Biaxial Geogrid Type IB
- (R)** HMA Milling, 1.5"
 65#/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
 Existing Pavement
- 22** Concrete Center Curb, Type C
- (R2)** Wedge and Level Overlay
 Milling, Profile (Scarify Min., 1.5" Max.) to Cross Slope Raising Grade 1.5" to 0"
 220 to 165#/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
 Existing Pavement
- (R3)** Wedge and Level Overlay
 Milling, Profile (Scarify Min., 1.5" Max.) to Cross Slope Raising Grade 1.5" to 0"
 220 to 165#/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
 Existing Pavement
- [Square Symbol]** Temporary Curb Inlet Protection

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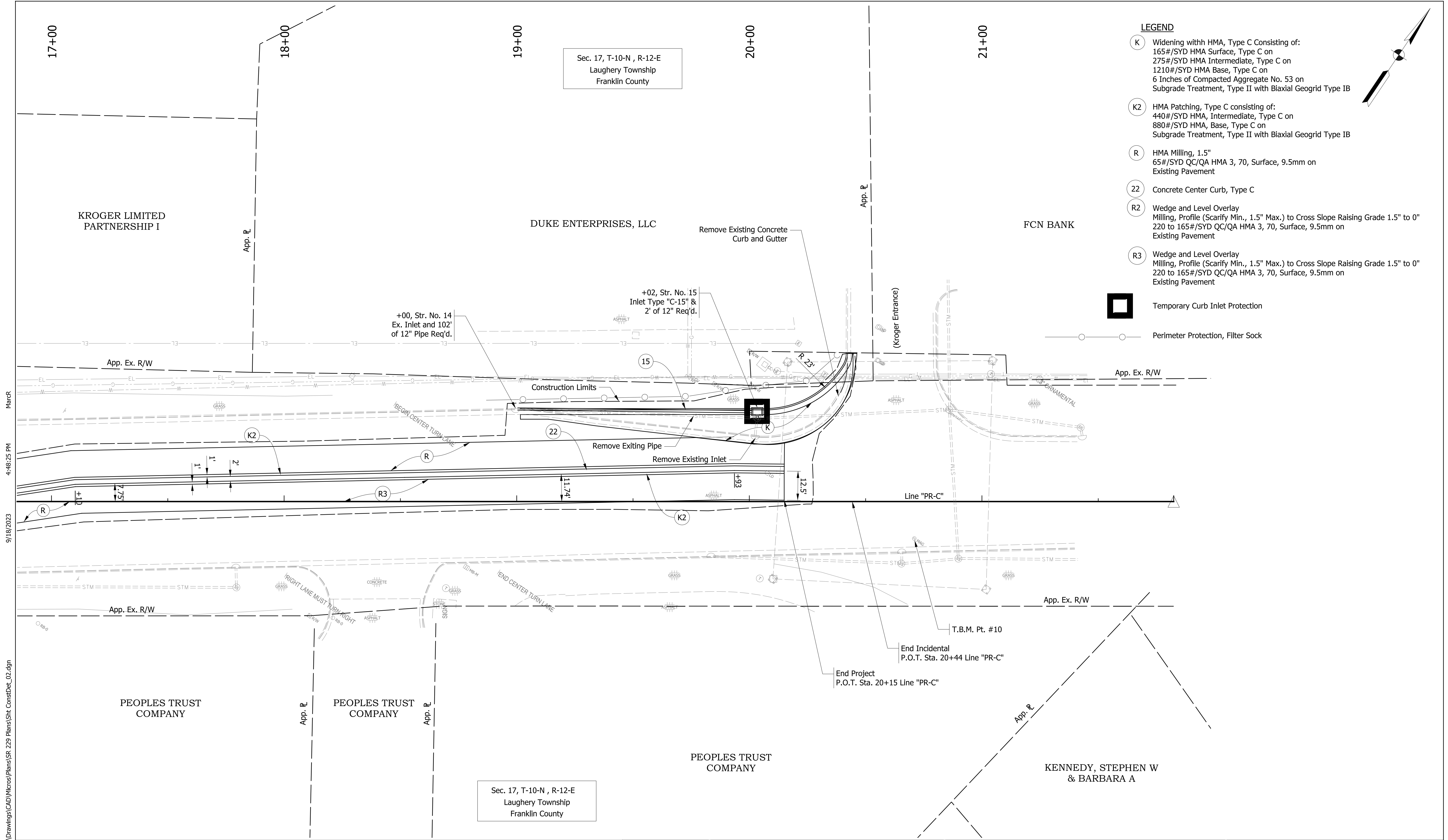
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: LRC	DRAWN: ACB		
CHECKED: MAR	CHECKED: MAR		

INDIANA DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAIL

S.R. 229 - LINE "PR-C"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE NO. N/A
VERTICAL SCALE NA	DESIGNATION NO. 2101170
SURVEY BOOK NO.	SHEETS 15 of 25
CONTRACT NO. T-44014	PROJECT NO. 2101170



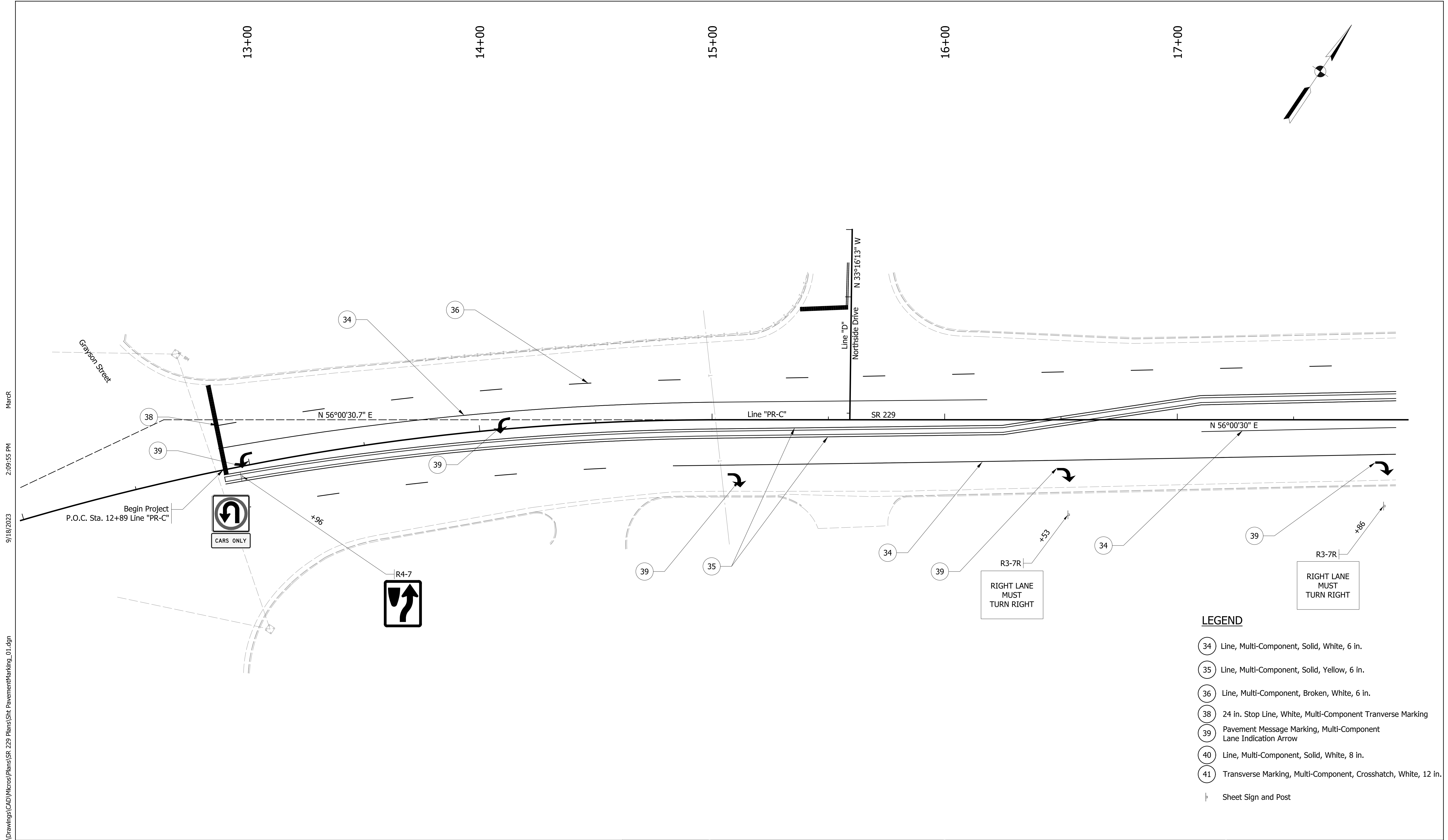
- LEGEND**
- (K) Widening with HMA, Type C Consisting of:
165#/SYD HMA Surface, Type C on
275#/SYD HMA Intermediate, Type C on
1210#/SYD HMA Base, Type C on
6 Inches of Compacted Aggregate No. 53 on
Subgrade Treatment, Type II with Biaxial Geogrid Type IB
 - (K2) HMA Patching, Type C consisting of:
440#/SYD HMA, Intermediate, Type C on
880#/SYD HMA, Base, Type C on
Subgrade Treatment, Type II with Biaxial Geogrid Type IB
 - (R) HMA Milling, 1.5"
65#/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
Existing Pavement
 - (22) Concrete Center Curb, Type C
 - (R2) Wedge and Level Overlay
Milling, Profile (Scarify Min., 1.5" Max.) to Cross Slope Raising Grade 1.5" to 0"
220 to 165#/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
Existing Pavement
 - (R3) Wedge and Level Overlay
Milling, Profile (Scarify Min., 1.5" Max.) to Cross Slope Raising Grade 1.5" to 0"
220 to 165#/SYD QC/QA HMA 3, 70, Surface, 9.5mm on
Existing Pavement
 - [Square Symbol] Temporary Curb Inlet Protection
 - [Circle Symbol] Perimeter Protection, Filter Sock

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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB	
CHECKED: MAR	CHECKED: MAR	

INDIANA DEPARTMENT OF TRANSPORTATION
CONSTRUCTION DETAIL
S.R. 229 - LINE "PR-C"

HORIZONTAL SCALE	BRIDGE FILE NO.
1" = 20'	N/A
VERTICAL SCALE	DESIGNATION NO.
NA	2101170
SURVEY BOOK NO.	SHEETS
	16 of 25
CONTRACT NO.	PROJECT NO.
T-44014	2101170



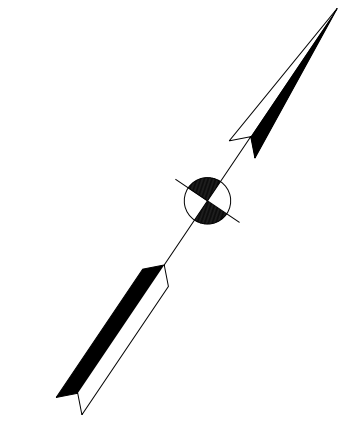
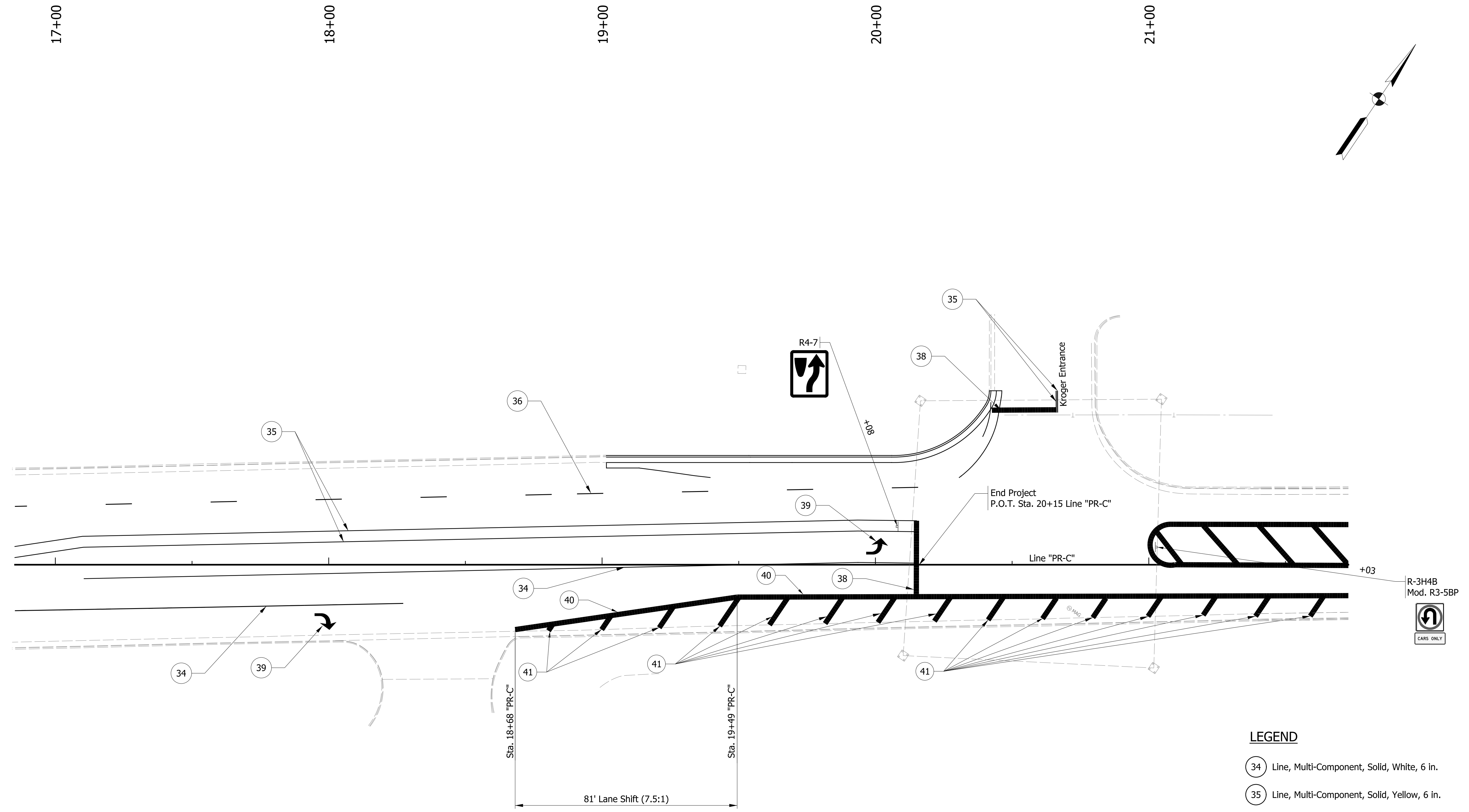
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- LEGEND**
- 34 Line, Multi-Component, Solid, White, 6 in.
 - 35 Line, Multi-Component, Solid, Yellow, 6 in.
 - 36 Line, Multi-Component, Broken, White, 6 in.
 - 38 24 in. Stop Line, White, Multi-Component Transverse Marking
 - 39 Pavement Message Marking, Multi-Component Lane Indication Arrow
 - 40 Line, Multi-Component, Solid, White, 8 in.
 - 41 Transverse Marking, Multi-Component, Crosshatch, White, 12 in.
- Sheet Sign and Post

	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 20' VERTICAL SCALE NA	BRIDGE FILE NO. N/A DESIGNATION NO. 2101170
DESIGNED: LRC CHECKED: MAR	DRAWN: ACB CHECKED: MAR	PAVEMENT MARKING DETAIL S.R. 229 - LINE "PR-C"	SURVEY BOOK NO. CONTRACT NO. T-44014	SHEETS 17 of 25 PROJECT NO. 2101170

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LEGEND

- 34 Line, Multi-Component, Solid, White, 6 in.
- 35 Line, Multi-Component, Solid, Yellow, 6 in.
- 36 Line, Multi-Component, Broken, White, 6 in.
- 38 24 in. Stop Line, White, Multi-Component Transverse Marking
- 39 Pavement Message Marking, Multi-Component Lane Indication Arrow
- 40 Line, Multi-Component, Solid, White, 8 in.
- 41 Transverse Marking, Multi-Component, Crosshatch, White, 12 in.
- Sheet Sign and Post

RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: LRC	DRAWN: ACB		
CHECKED: MAR	CHECKED: MAR		

INDIANA DEPARTMENT OF TRANSPORTATION
PAVEMENT MARKING DETAIL
S.R. 229 - LINE "PR-C"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE NO. N/A
VERTICAL SCALE NA	DESIGNATION NO. 2101170
SURVEY BOOK NO.	SHEETS 18 of 25
CONTRACT NO. T-44014	PROJECT NO. 2101170

STRUCTURE DATA

STRUCTURE NUMBER	LOCATION				SIZE (in)	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	LENGTH (ft)	SKEW	COVER (ft)	FLOW LINE		Pavement/Ground Elevation		SERVICE LIFE (yr.)	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL, TYPE 1 CYS.	CLASS I RIPRAP TON	PIPE END SECTION EA	CONNECT TO STR. NO.	REMARKS
	STATION	LEFT	RIGHT	CROSS							UP STREAM ELEV.	DOWN STREAM ELEV.	UP STREAM ELEV.	DOWN STREAM ELEV.									
LINE "PR-C"																							
10	14+72			X	12	2	INLET TYPE HA	16		2.8	960.13			75	NA	7.0	1	5.9				11	
11	14+93			X	12	2	INLET TYPE HA WITH SLOTTED DRAIN	16		2.9	959.97	959.97		75	NA	7.0	1	6.1				12	
12	15+14			X	12	2	INLET TYPE HA	70		3.1	959.81	959.81		75	NA	7.0	1	28.2				13	
13	15+87			X			MANHOLE TYPE C-4			4.8	958.11	958.11		75	NA	7.0	1						
14	19+00	X			12	2	EX. INLET	102		2.5	962.18			75	NA	7.0	1	34.0				15	
15	20+02	X			12	2	INLET TYPE C-15	2		2.9	961.68	961.68		75	NA	7.0	1	0.8					
Project Totals								206										75					

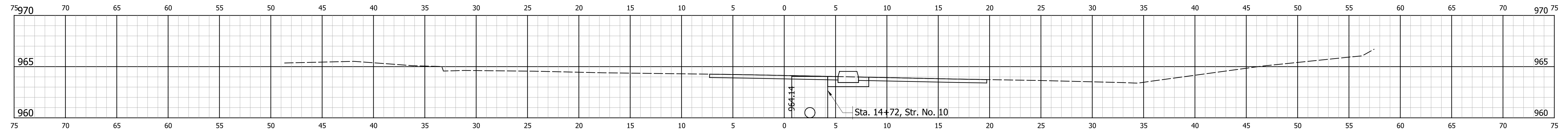
UNDERDRAIN TABLE

Underdrain Pipe Limits	UNDERDRAIN PIPE							OUTLET PIPE										OUTLET PROTECTORS				Remarks					
	Type 4 Pipe		Geotextile for Underdrains SYS	Aggregate for Underdrains CYS	HMA for Underdrains TONS	Special Grade %	Flow Line Elevation @ Underdrain Pipe Limit	Outlet Pipe Required (Y/N)	Connect Underdrain Pipe to Structure No.	Structure Invert Elevation	45 Degree Elbows Required (1 or 2)	6" Outlet Pipe LFT	Outlet Station	Outlet Elevation	Outlet at Outlet Protector No. _____	Ditch Flow Line Elevation at Outlet Protector	Connect Outlet Pipe to Structure No. _____	Structure Invert Elevation	B Borrow for Structure Backfill CYS	HMA for Underdrains TONS	Outlet Protector No. _____		Outlet Protector Type	Location			
	4" LFT	6" LFT																						Outside Left	Median Left	Median Right	Outside Right
19+01, Lt.						962.88	N		962.18																		
20+01, Lt.		100	89	9		962.46	N	15	961.68			20+01	962.46														
20+05, Lt.						962.46	N	15	961.68			20+05	962.46												Along drive radius		
20+42, Lt.		47	32	5	0.2	962.55	N																				
TOTAL		147	121	14																							

SHEET SIGN AND POST SUMMARY

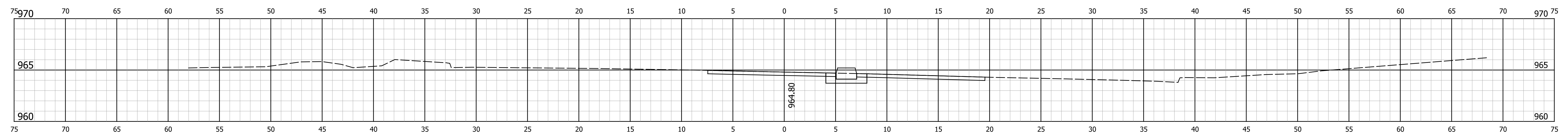
LINE	STATION	LT/ MED/ RT	SIGN CODE	SIGN					WITH LEGEND METAL THICKNESS AND AREA (SF)			POST						Comments							
				SIGN SIZE (INCHES)		REMOVE EACH	RESET EACH	RELOCATE EACH	0.080"	0.100"	0.125"	SQUARE UNREINFORCED ANCHOR 2 1/4" - 12 GA. (TYPE 1)			SQUARE UNREINFORCED ANCHOR 2" - 12 GA. (TYPE 2)				SQUARE UNREINFORCED ANCHOR 2 1/2" - 12 GA. (TYPE 3)						
				WIDTH	HEIGHT							POST LENGTH (FT.)			POST LENGTH (FT.)				POST LENGTH (FT.)						
"PR-C"																									
	12+86	RT	R3-H4B	24	24							4.00													OVERHEAD
	12+86	RT	Modified R3-5bP	30	12							2.50													OVERHEAD
	12+96	MED	R4-7	24	30							5.00	11		11										
	16+53	RT	R3-7R	36	36							9.00	11		11										
	17+86	RT	R3-7R	36	36							9.00	11		11										
	20+23	MED	R4-7	24	24							4.00	11		11										
	21+03	MED	R3-H4B	24	24							4.00													OVERHEAD
	21+03	MED	Modified R3-5bP	30	12							2.50													OVERHEAD
	PAY TOTAL											41.00													

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 20'	BRIDGE FILE NO. N/A
	MISCELLANEOUS TABLES SR 229		VERTICAL SCALE NA	DESIGNATION NO. 2101170
DESIGNED: LRC	DRAWN: ACB		SURVEY BOOK NO.	SHEETS 20 of 25
CHECKED: MAR	CHECKED: MAR		CONTRACT NO. T-44014	PROJECT NO. 2101170



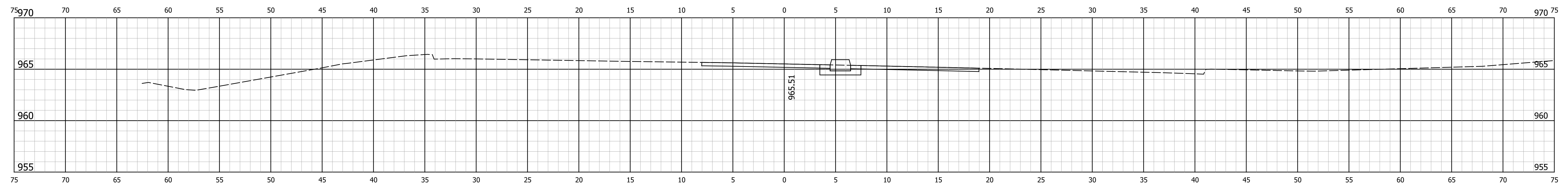
Ac = 3.8 SFT Af = 0.0 SFT
 Vc = 7 CYS Vf = 0 CYS

STA. 14+50



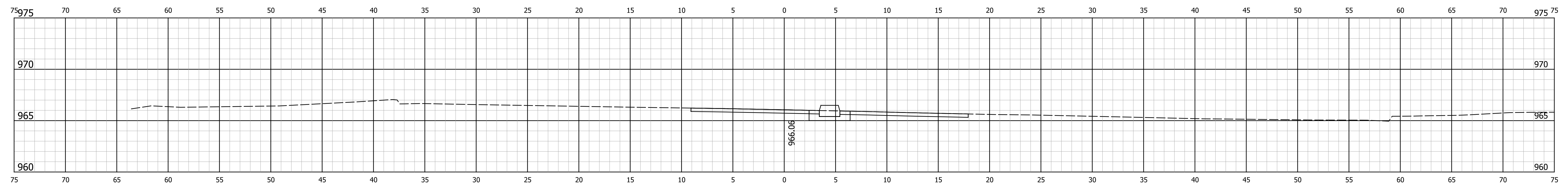
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 Vc = 7 CYS Vf = 0 CYS

STA. 14+00



Ac = 3.8 SFT Af = 0.0 SFT
 Vc = 7 CYS Vf = 0 CYS

STA. 13+50



Ac = 3.8 SFT Af = 0.0 SFT
 Vc = 0 CYS Vf = 0 CYS

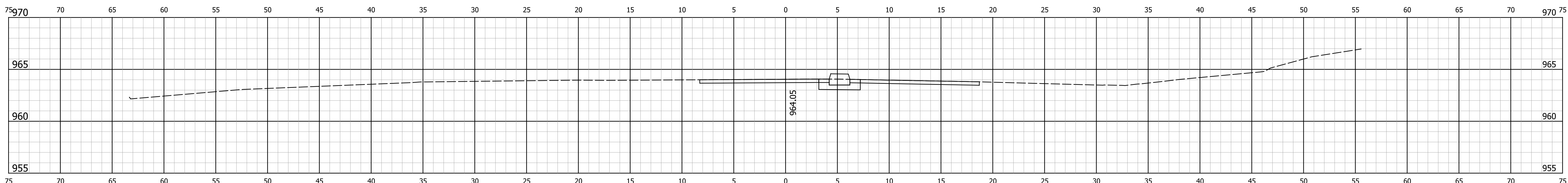
STA. 13+00

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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB	
CHECKED: MAR	CHECKED: MAR	

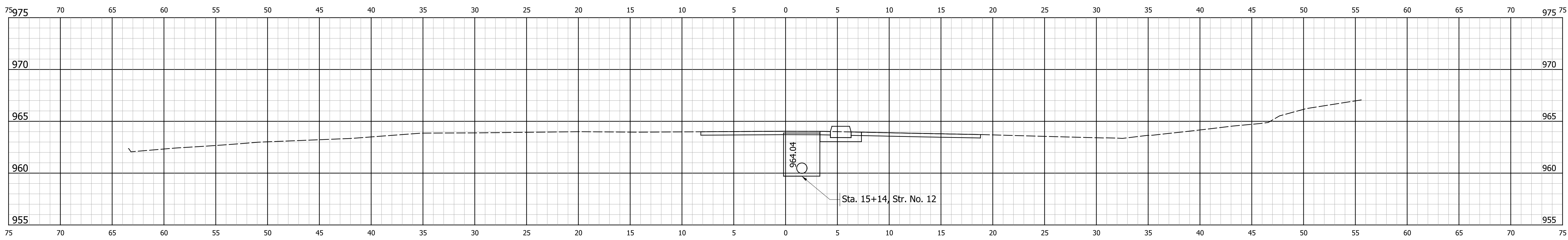
INDIANA DEPARTMENT OF TRANSPORTATION
CROSS SECTIONS
 STA. 13+00 "PR-C" TO STA. 14+50 "PR-C"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE NO. N/A
VERTICAL SCALE 1" = 5'	DESIGNATION NO. 2101170
SURVEY BOOK NO.	SHEETS 21 of 25
CONTRACT NO. T-44014	PROJECT NO. 2101170



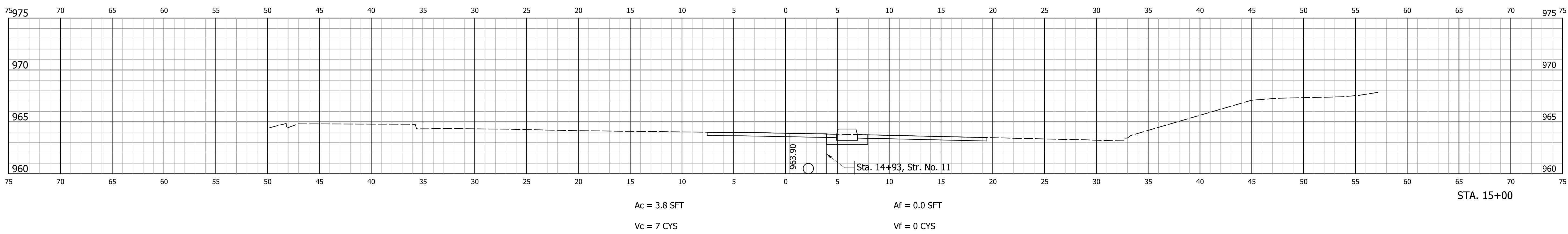
Ac = 4.0 SFT Af = 0.0 SFT
 Vc = 1 CYS Vf = 0 CYS

STA. 15+59



Ac = 3.8 SFT Af = 0.0 SFT
 Vc = 7 CYS Vf = 0 CYS

STA. 15+50



Ac = 3.8 SFT Af = 0.0 SFT
 Vc = 7 CYS Vf = 0 CYS

STA. 15+00

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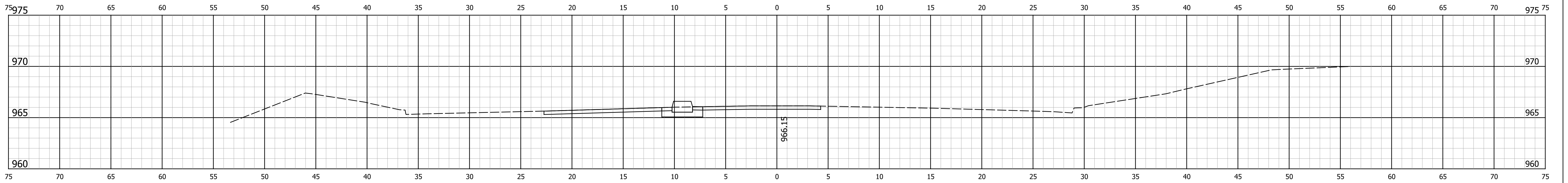
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB	
CHECKED: MAR	CHECKED: MAR	

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

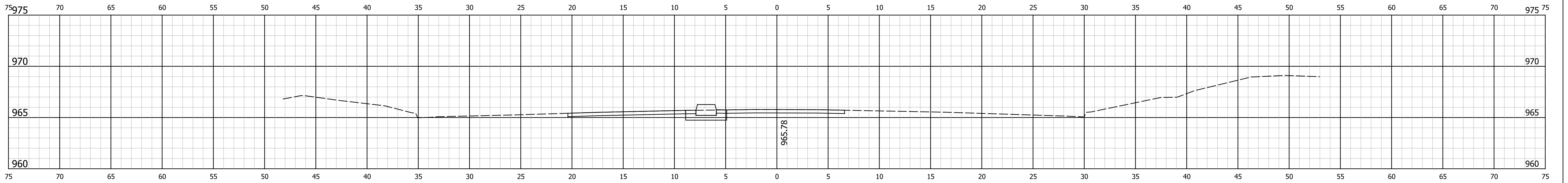
STA. 15+00 "PR-C" TO STA. 15+59 "PR-C"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE NO. N/A
VERTICAL SCALE 1" = 5'	DESIGNATION NO. 2101170
SURVEY BOOK NO.	SHEETS 22 of 25
CONTRACT NO. T-44014	PROJECT NO. 2101170



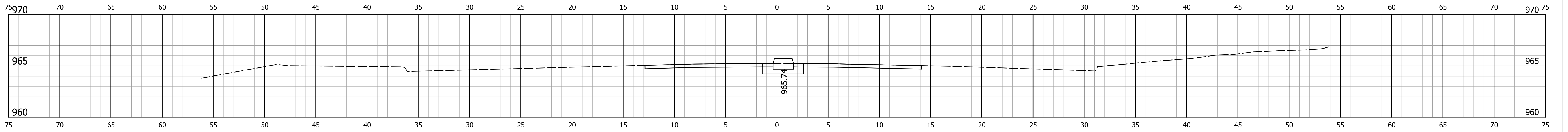
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Vc = 7 CYS
Af = 0.0 SFT
Vf = 0 CYS

STA. 17+50



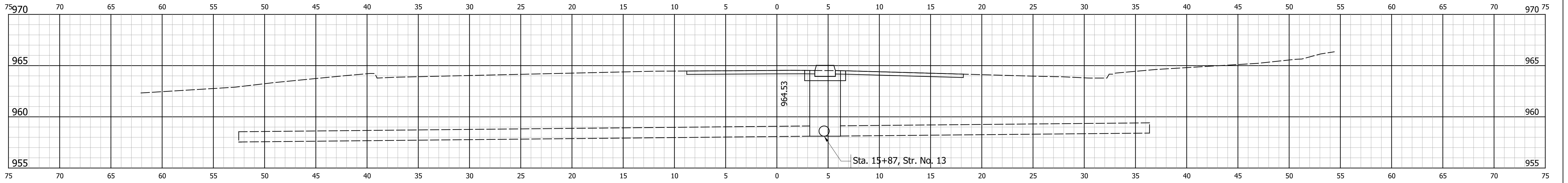
Ac = 3.9 SFT
Vc = 7 CYS
Af = 0.0 SFT
Vf = 0 CYS

STA. 17+00



Ac = 4.0 SFT
Vc = 7 CYS
Af = 0.00 SFT
Vf = 0 CYS

STA. 16+50



Ac = 3.9 SFT
Vc = 6 CYS
Af = 0.0 SFT
Vf = 0 CYS

STA. 16+00

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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB	
CHECKED: MAR	CHECKED: MAR	

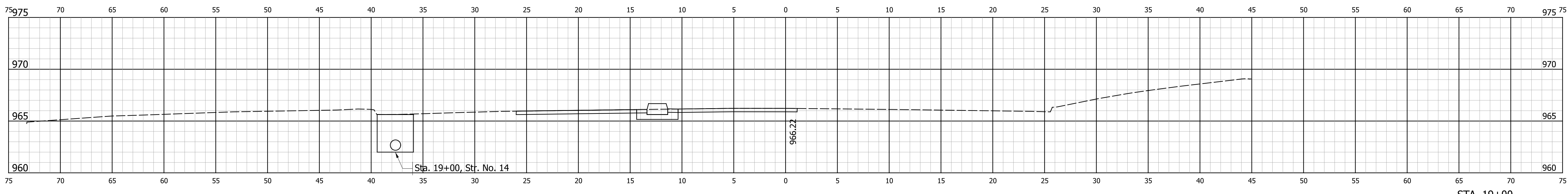
INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS

STA. 16+00 "PR-C" TO STA. 17+50 "PR-C"

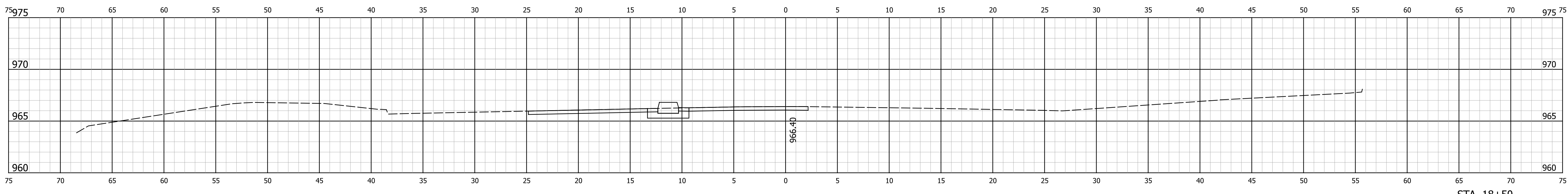
HORIZONTAL SCALE 1" = 5'	BRIDGE FILE NO. N/A
VERTICAL SCALE 1" = 5'	DESIGNATION NO. 2101170
SURVEY BOOK NO.	SHEETS 23 of 25
CONTRACT NO. T-44014	PROJECT NO. 2101170

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9/18/2023 2:10:13 PM MarcR



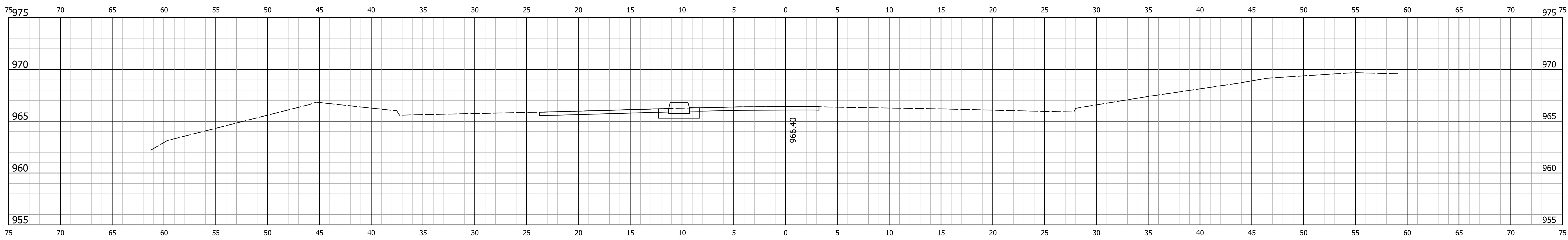
Ac = 3.9 SFT Af = 0.0 SFT
Vc = 7 CYS Vf = 0 CYS

STA. 19+00



Ac = 3.9 SFT Af = 0.0 SFT
Vc = 7 CYS Vf = 0 CYS

STA. 18+50



Ac = 3.8 SFT Af = 0 SFT
Vc = 7 CYS Vf = 0 CYS

STA. 18+00

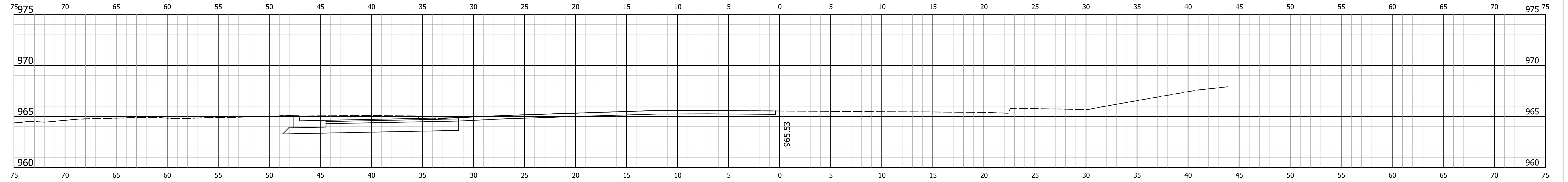
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: LRC	DRAWN: ACB	
CHECKED: MAR	CHECKED: MAR	

INDIANA DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
STA. 18+00 "PR-C" TO STA. 19+00 "PR-C"

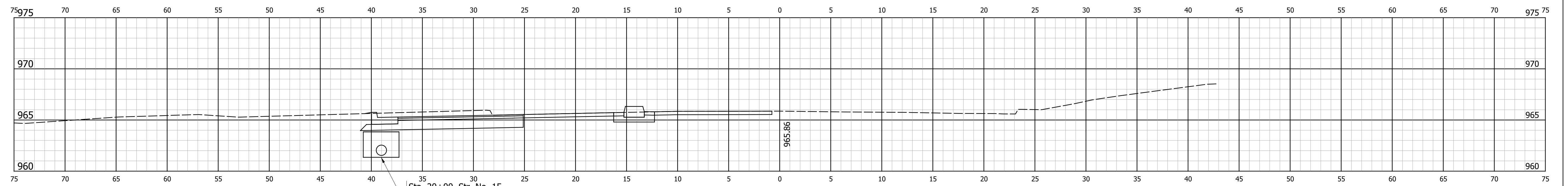
HORIZONTAL SCALE 1" = 5'	BRIDGE FILE NO. N/A
VERTICAL SCALE 1" = 5'	DESIGNATION NO. 2101170
SURVEY BOOK NO.	SHEETS 24 of 25
CONTRACT NO. T-44014	PROJECT NO. 2101170

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 9/18/2023 2:10:14 PM MarcR



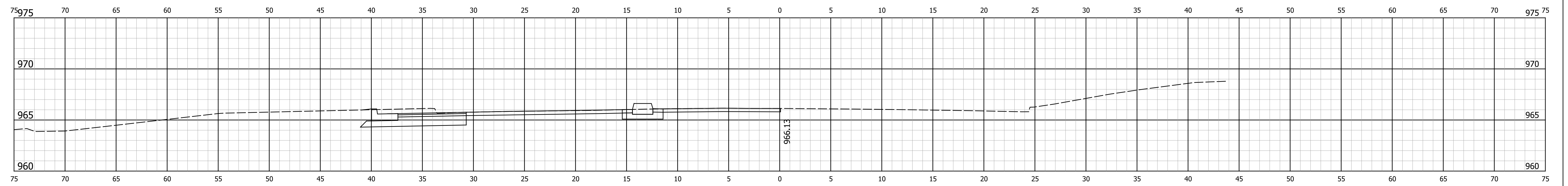
Ac = 25.3 SFT Af = 0.0 SFT
 Vc = 27.6 CYS Vf = 0 CYS

STA. 20+30



Ac = 24.4 SFT Af = 0.1 SFT
 Vc = 36 CYS Vf = 0 CYS

STA. 20+00



Ac = 16.5 SFT Af = 0.0 SFT
 Vc = 17 CYS Vf = 0.56 CYS

STA. 19+50

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE NO.
					1" = 5'	N/A
DESIGNED: LRC	DRAWN: ACB		CROSS SECTIONS		VERTICAL SCALE	DESIGNATION NO.
CHECKED: MAR	CHECKED: MAR				1" = 5'	2101170
			STA. 19+50 "PR-C" TO STA. 20+30 "PR-C"		SURVEY BOOK NO.	SHEETS
						25 of 25
					CONTRACT NO.	PROJECT NO.
					T-44014	2101170