

PROJECT	DESIGNATION
TBD	0900250, 0900251
CONTRACT	BRIDGE FILE
TBD	TBD

# INDIANA DEPARTMENT OF TRANSPORTATION



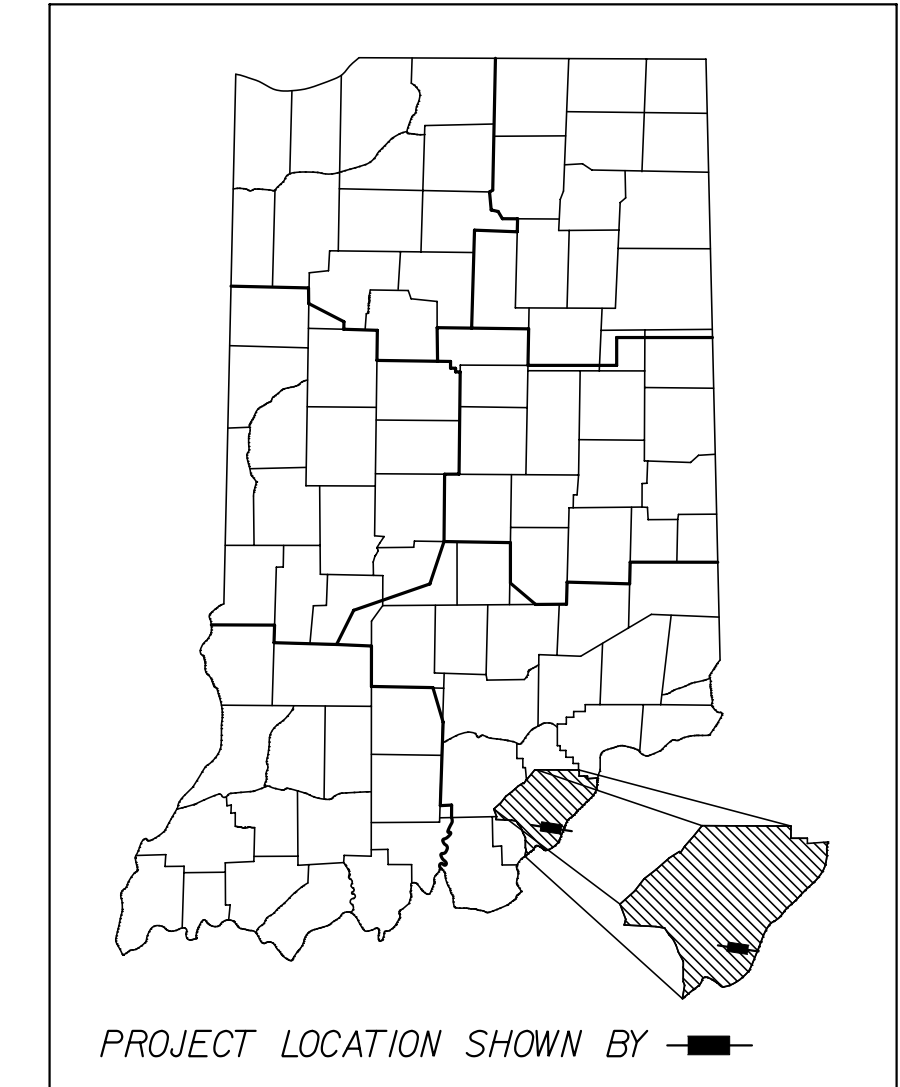
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
TBD & TBD	Cont. Comp. Pres. Conc. Bulb-Tee	4 Spans: 135'-0", 2 @ 145'-0", 135'-0" 30' Skew Lt. To Line A	Lentzier Creek	324+83.25 LINE "A"

## BRIDGE PLANS

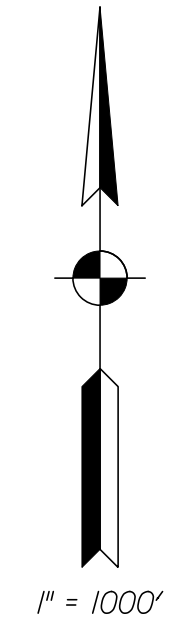
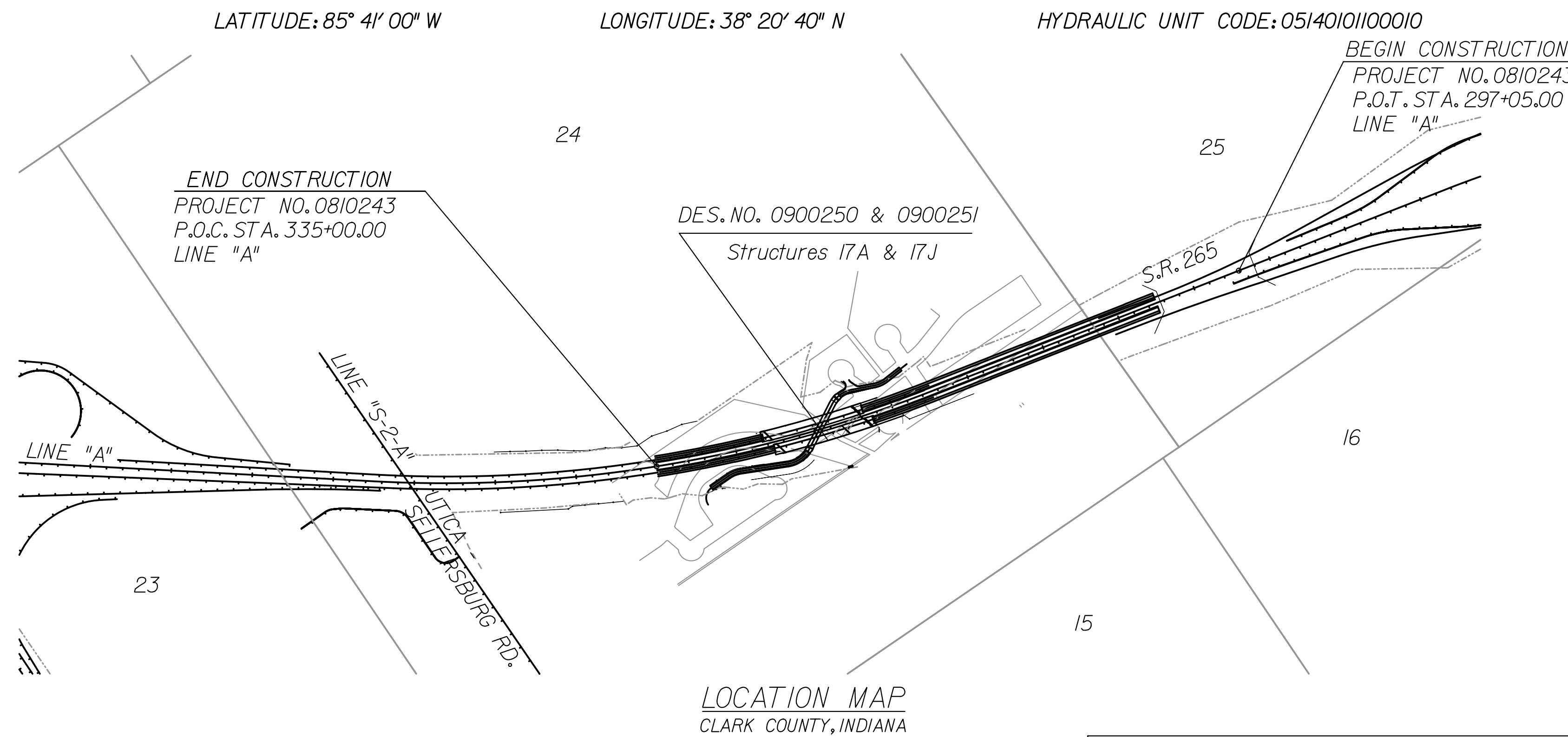
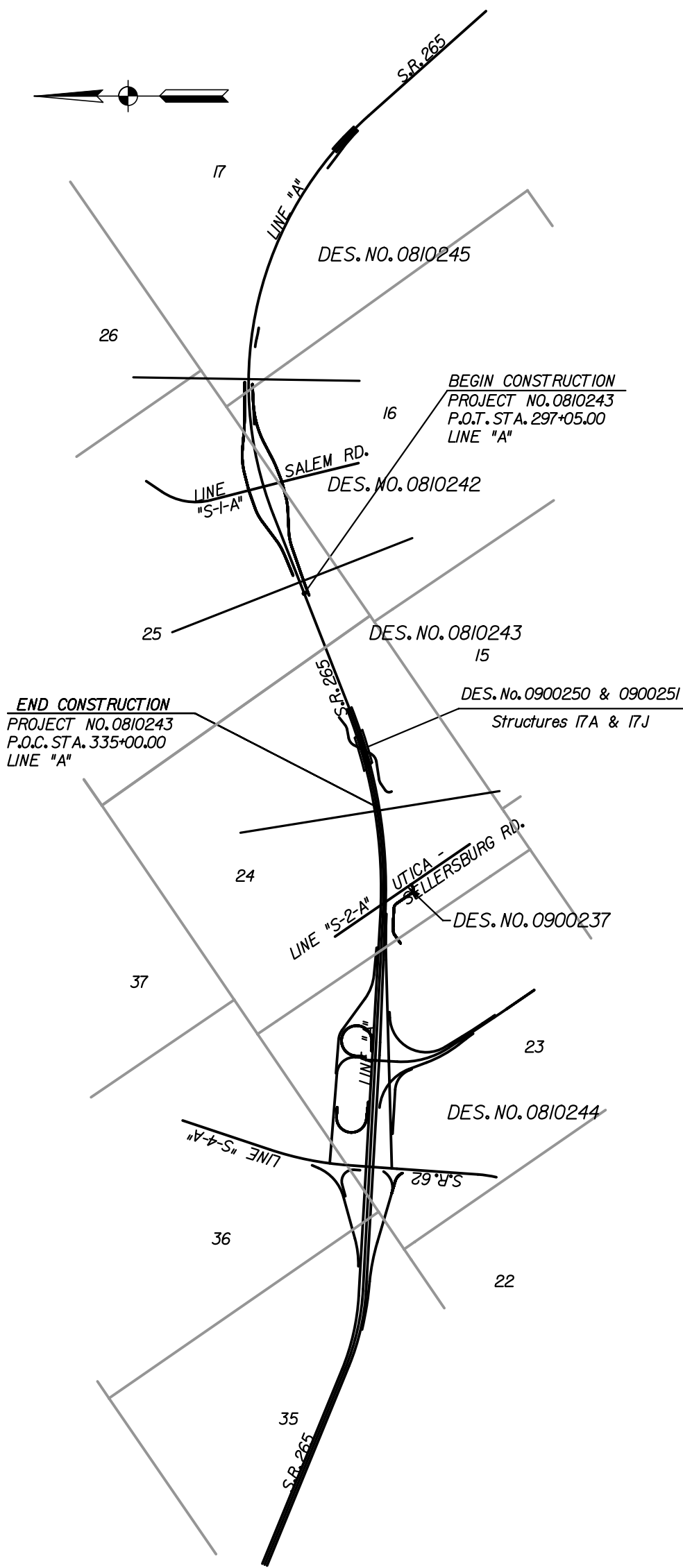
**ROUTE: S.R. 265 OVER LENTZIER CREEK: R.P. 10+89**

**PROJECT NO. 0810243 P.E.  
PROJECT NO. 0810243 R/W  
PROJECT NO. 0810243 CONST.**

NEW BRIDGE CONSTRUCTION ON S.R. 265 OVER LENTZIER CREEK AND BROOKHOLLOW WAY LOCATED 1.3 MI. EAST OF S.R. 62 IN ILLINOIS GRANT SURVEY 24, UTICA TOWNSHIP, CLARK COUNTY, INDIANA



BRIDGE LENGTH: 0.105 mi.  
ROADWAY LENGTH: 0.008 mi.  
TOTAL LENGTH: 0.113 mi.  
MAXIMUM GRADE: 1.27%



NOTE: CONTRACTOR SHALL USE THESE PLANS IN CONJUNCTION WITH ROAD PLANS DES. NO. 0810243

FINAL SUBMITTAL  
DECEMBER 30, 2011

(INDIANA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS DATED 2012 TO BE USED WITH THESE PLANS)

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251 N. ILLINOIS ST.  
CAPITOL CENTER SUITE 920  
INDIANAPOLIS, IN 46221  
PHONE (317) 237-2760  
FAX (317) 237-2755

KIN DESIGNATION NUMBERS	
0810243	ROAD PLANS S.R. 265 SECTION C
0900252	BRIDGE PLANS STR. 18 - S.R. 265 OVER LENTZIER CREEK
0900253	STR. 19 - S.R. 265 OVER LENTZIER CREEK
TBD	BROOKHOLLOW WAY OVER LENTZIER CREEK

FEDERAL HIGHWAY ADMINISTRATION  
U.S. DEPT. OF TRANSPORTATION

APPROVED: \_\_\_\_\_ DATE \_\_\_\_\_

DIVISION ADMINISTRATOR

PLANS PREPARED BY: \_\_\_\_\_  
BURGESS & NIPLÉ

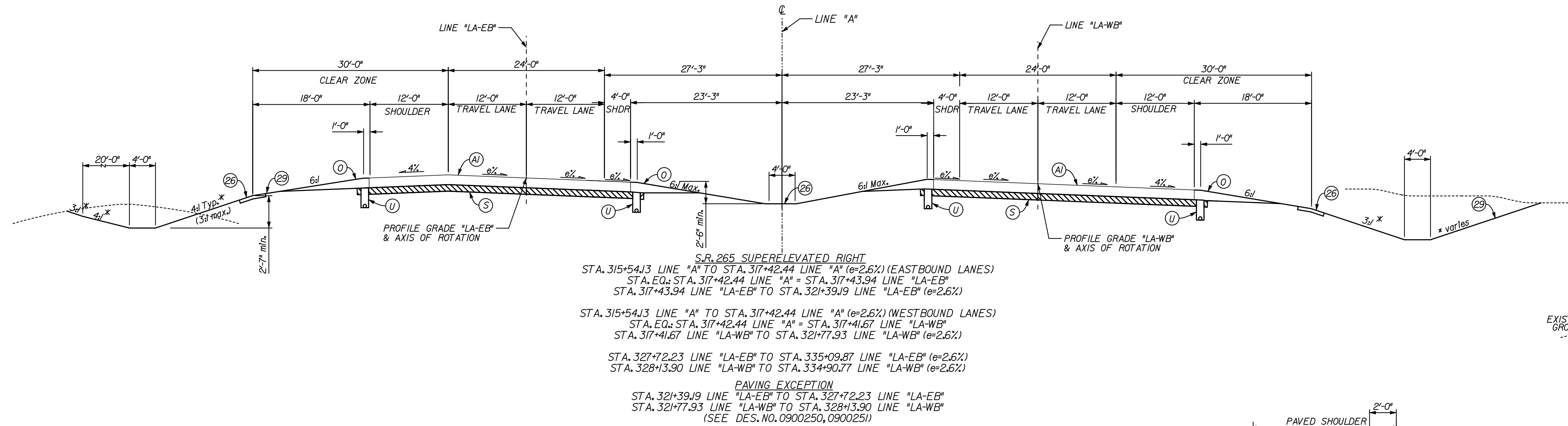
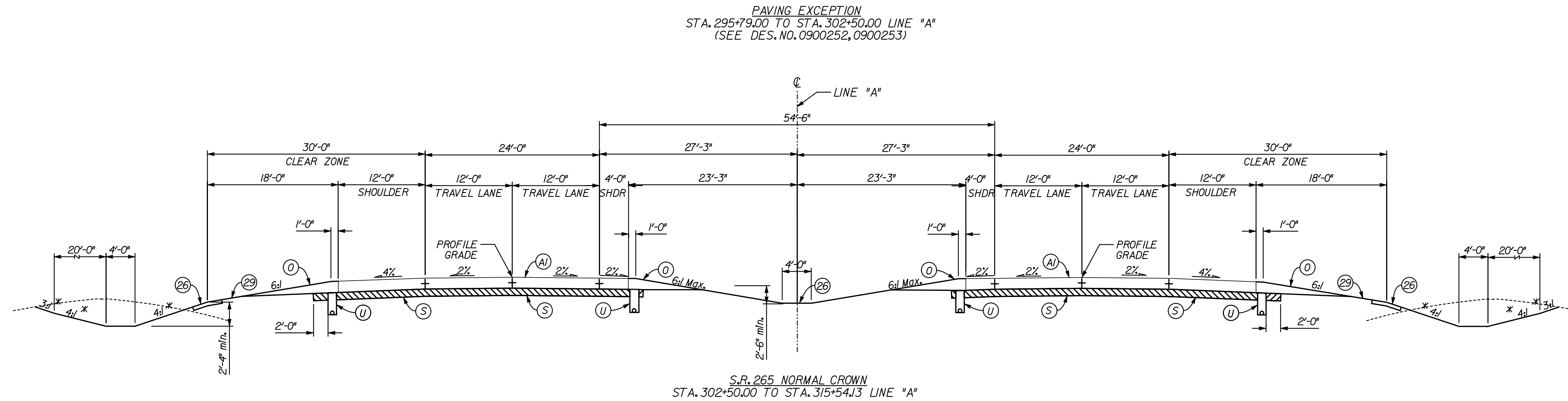
PLANS PREPARED BY: \_\_\_\_\_  
BURGESS & NIPLÉ DATE \_\_\_\_\_

APPROVED FOR LETTING: \_\_\_\_\_  
INDIANA DEPARTMENT OF TRANSPORTATION DATE \_\_\_\_\_

CONTRACT  
TBD

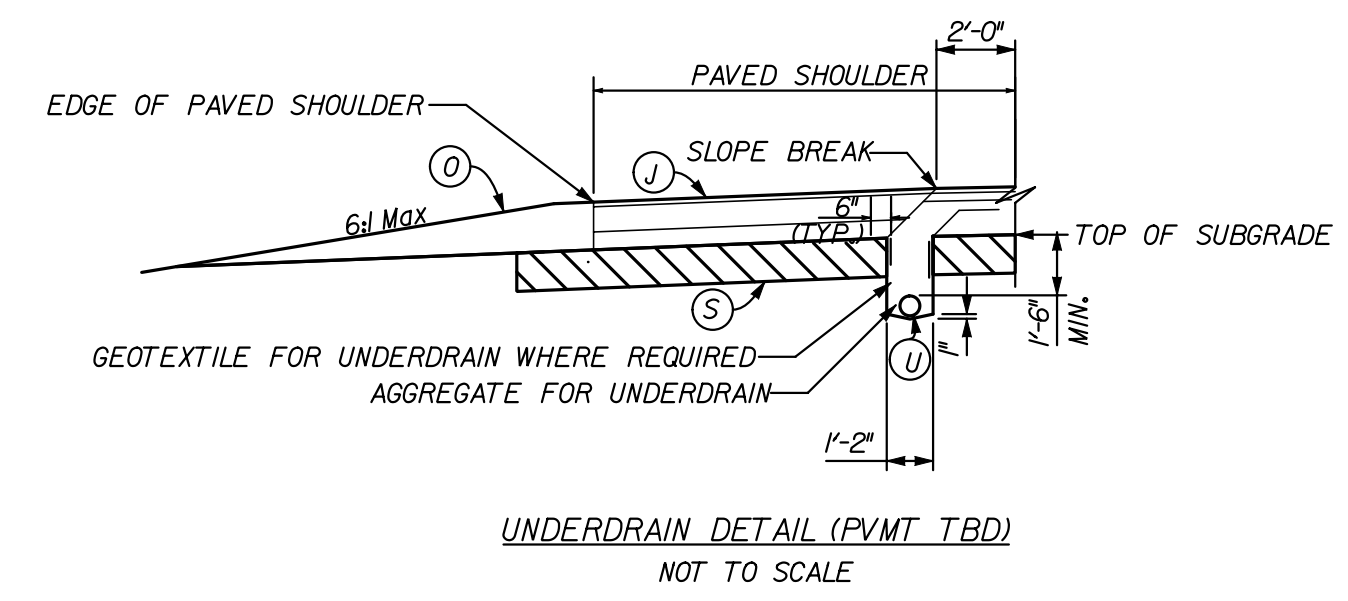
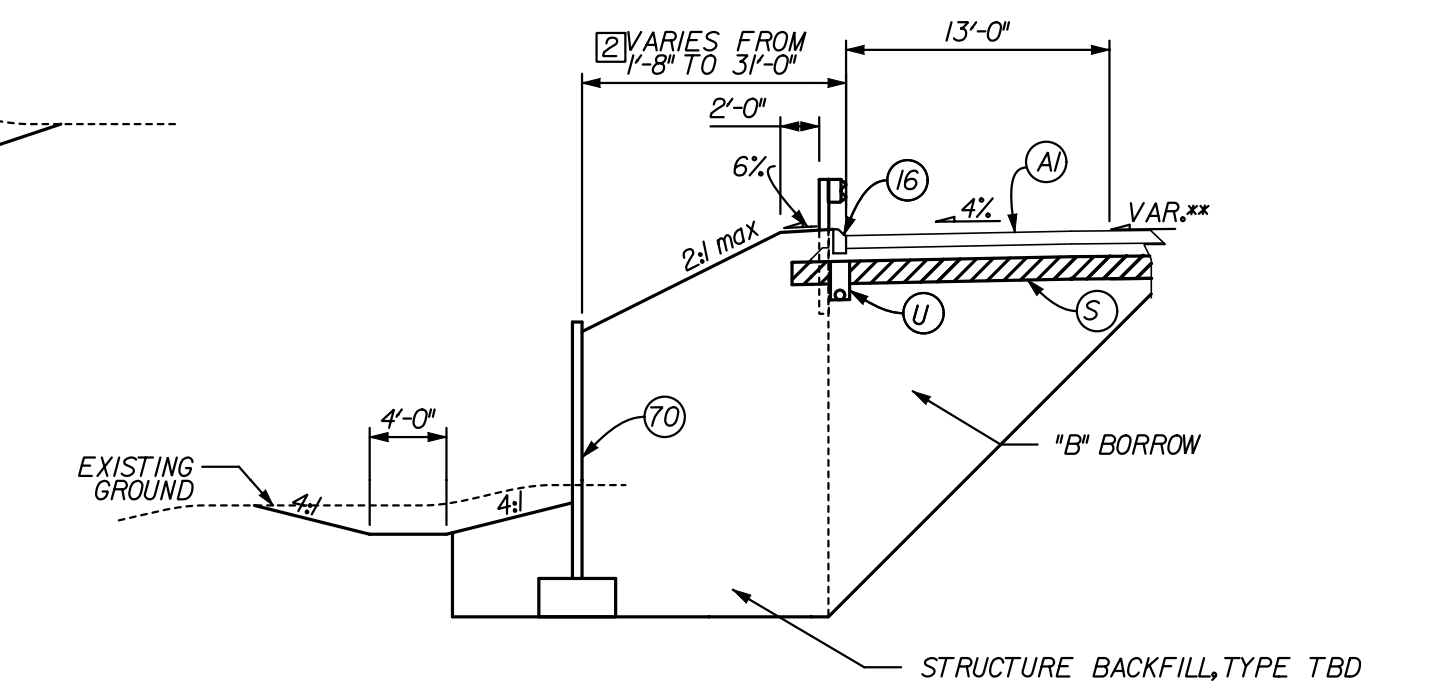
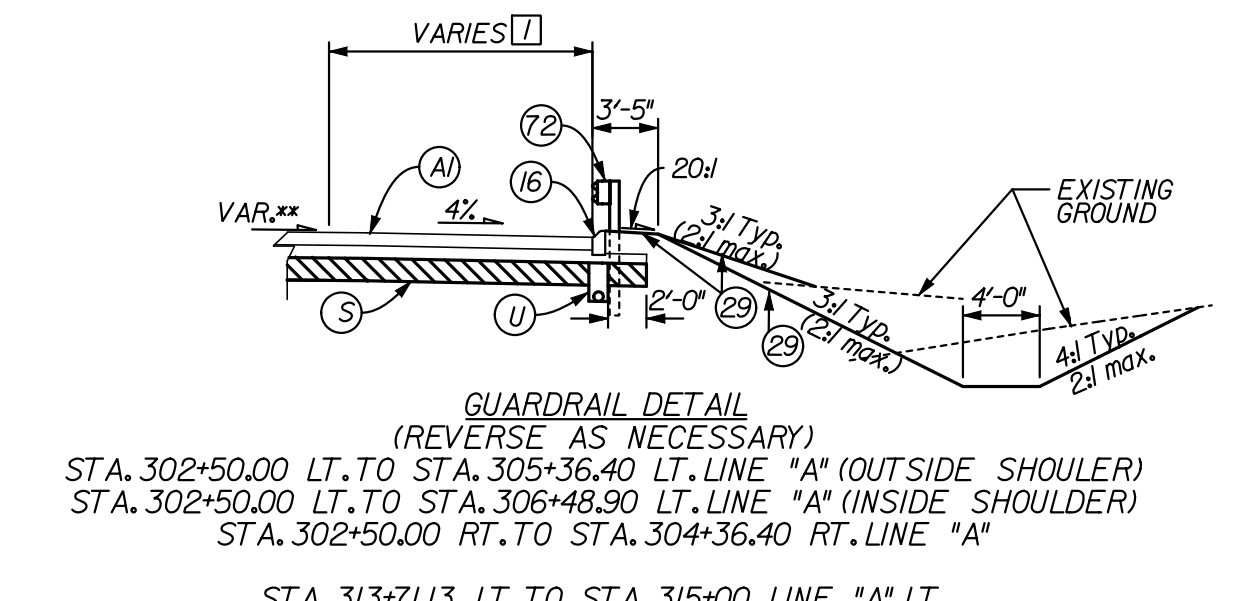
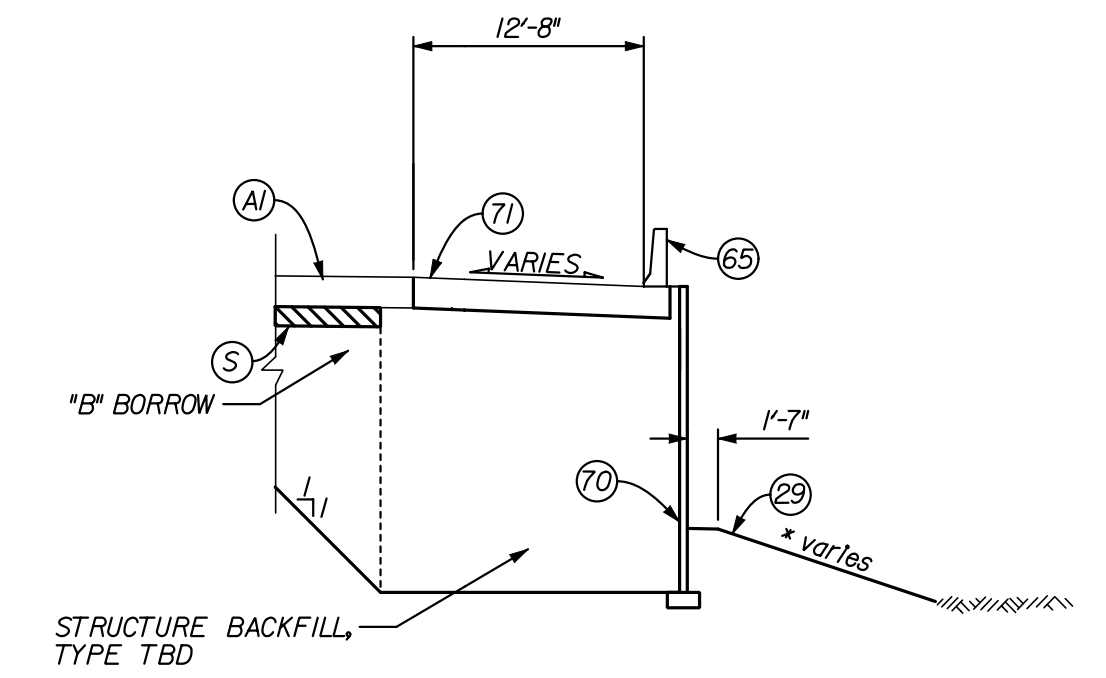
BRIDGE FILE	
TBD	
DESIGNATION	
0810243	
DWG. NO.	SHEET NO.
T-01	1 of 16
CONTRACT	PROJECT
TBD	0810243





\* SEE CROSS SECTIONS FOR SIDE SLOPES  
SLOPES TO BE VERIFIED WITH GEOTECHNICAL RECOMMENDATIONS.

FOR INFORMATION ONLY



- LEGEND**
- (A) XX" QC/QA PAVEMENT (TO BE DETERMINED)
  - (16) CONCRETE CURB, TYPE B
  - (70) M.S.E. RETAINING WALL
  - (0) VARIABLE DEPTH COMPACTED AGGREGATE, NO. 53
  - (26) NURSERY SODDING
  - (71) MOMENT SLAB
  - (S) SUBGRADE TREATMENT, TYPE xx
  - (29) SEEDING, R
  - (72) W-BEAM GUARDRAIL
  - (U) 6" UNDERDRAIN
  - (65) CONCRETE BARRIER, 45", SINGLE FACE

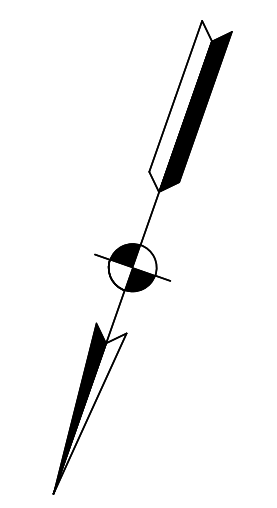
RECOMMENDED FOR APPROVAL _____	
DESIGN ENGINEER	DATE
DESIGNED: JLC	DRAWN: JMM
CHECKED: JMM	CHECKED: JLC

**INDIANA**  
**DEPARTMENT OF TRANSPORTATION**

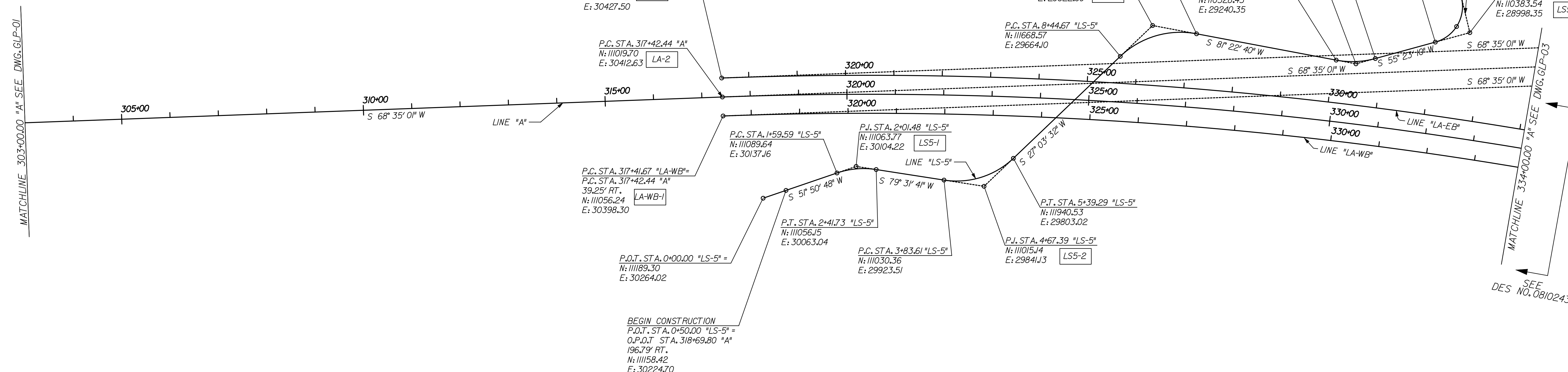
**TYPICAL CROSS SECTIONS**  
**LINE "A"**

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE
VERTICAL SCALE	DESIGNATION OB10243
SURVEY BOOK	DWG. NO. SHEET NO. TS-01 3 of 16
CONTRACT	PROJECT OB10243

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<b>LS5-1</b> CURVE DATA PI 2+01.48 N 111,063.77 E 30,104.22 Delta 27° 40' 52.83" (RT) D 33° 42' 12.24" R 170.00 Lc 82.13 T 41.88	<b>LS5-4</b> CURVE DATA PI 13+50.62 N 110,522.22 E 29,999.28 Delta 25° 59' 30.23" (LT) D 3° 49' 51.56" R 180.00 Lc 81.66 T 41.54	<b>LA-EB-1</b> CURVE DATA PI 334+68.04 N 110,353.62 E 28,821.91 Delta 23° 42' 56.02" (RT) D 0° 41' 51.93" R 8,211.42 Lc 3,398.83 T 1,724.10	<b>LA-WB-1</b> CURVE DATA PI 334+20.35 N 110,409.77 E 28,742.43 Delta 24° 40' 22.62" (RT) D 0° 42' 16.17" R 8,132.92 Lc 3,502.23 T 1,778.69
<b>LS5-2</b> CURVE DATA PI 4+67.39 N 111,015.14 E 29,841.13 Delta 52° 28' 09.72" (LT) D 33° 42' 12.24" R 170.00 Lc 155.68 T 83.78	<b>LS5-5</b> CURVE DATA PI 15+93.33 N 110,383.54 E 28,998.35 Delta 88° 11' 21.77" (LT) D 7° 49' 41.25" R 76.40 Lc 117.59 T 74.02	<b>LA-2</b> CURVE DATA PI 335+19.48 N 110,370.83 E 28,758.29 Delta 24° 27' 19.00" (RT) D 0° 41' 55.42" R 8,200.00 Lc 3,499.97 T 1,777.04	
<b>LS5-3</b> CURVE DATA PI 9+37.02 N 111,586.33 E 29,622.09 Delta 54° 19' 08.04" (RT) D 3° 49' 51.56" R 180.00 Lc 170.65 T 92.35			



MATCHLINE 303+00.00 "A" SEE DWG. GLP-01

MATCHLINE 334+00.00 "A" SEE DWG. GLP-03  
SEE DES NO. 0810243

FOR INFORMATION ONLY

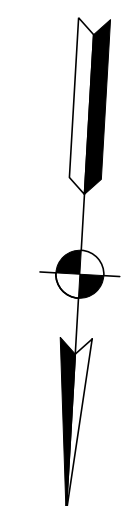
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____ DATE _____	
DESIGNED: JLC	DRAWN: JMM	CHECKED: JMM	CHECKED: JLC

INDIANA  
DEPARTMENT OF TRANSPORTATION

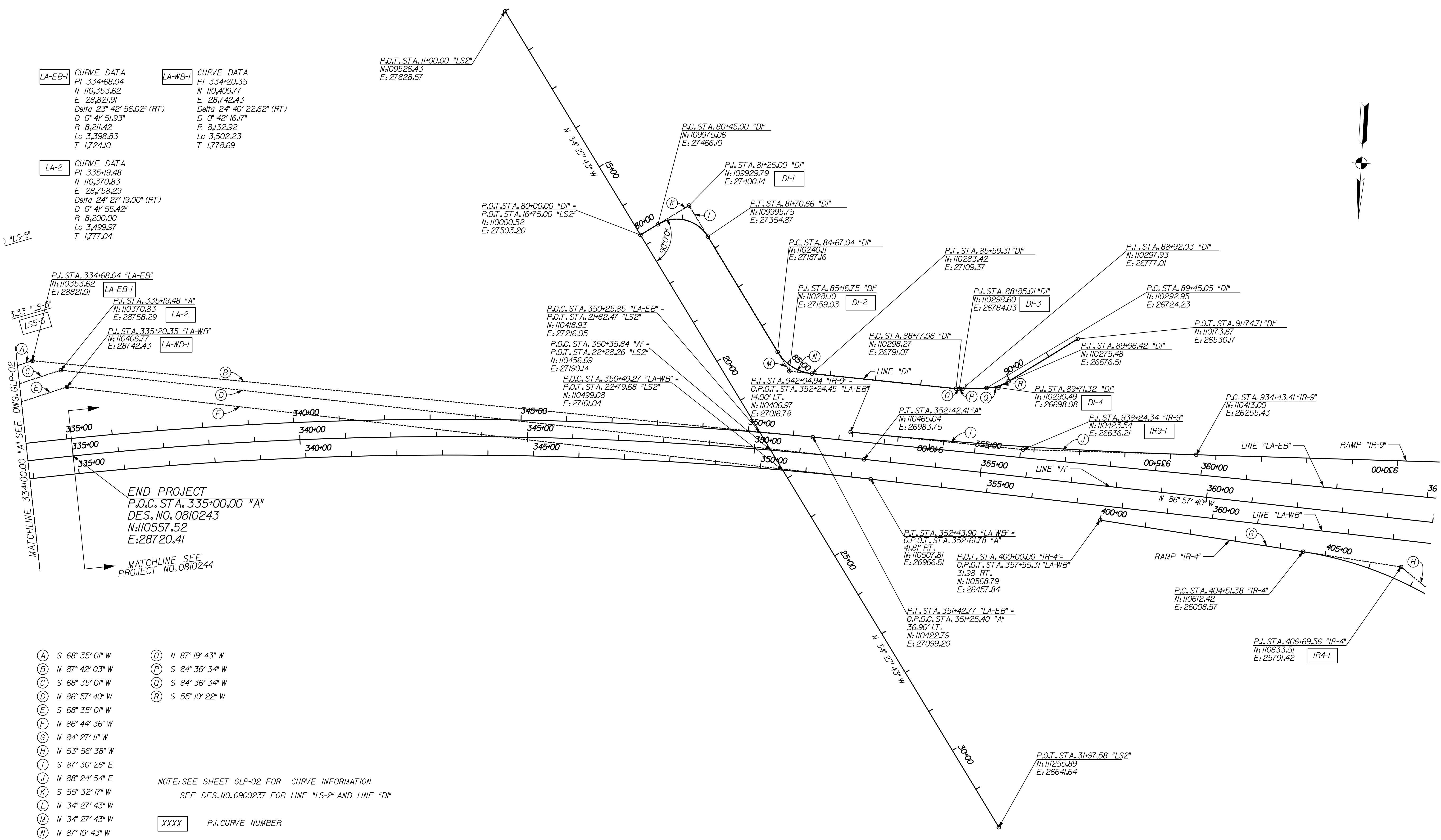
PROPOSED  
GEOMETRIC LAYOUT SHEET

HORIZONTAL SCALE 1" = 100'	BRIDGE FILE	
VERTICAL SCALE	DESIGNATION 0810243	
SURVEY BOOK	DWG. NO. GLP-01	SHEET NO. 4 of 16
CONTRACT	PROJECT 0810243	

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<b>LA-EB-1</b> CURVE DATA PI 334+68.04 N 110,353.62 E 28,821.91 Delta 23° 42' 56.02" (RT) D 0° 41' 51.93" R 8,211.42 Lc 3,398.83 T 1,724.10	<b>LA-WB-1</b> CURVE DATA PI 334+20.35 N 110,409.77 E 28,742.43 Delta 24° 40' 22.62" (RT) D 0° 42' 16.17" R 8,132.92 Lc 3,502.23 T 1,778.69
<b>LA-2</b> CURVE DATA PI 335+19.48 N 110,370.83 E 28,758.29 Delta 24° 27' 19.00" (RT) D 0° 41' 55.42" R 8,200.00 Lc 3,499.97 T 1,777.04	



END PROJECT  
P.O.C. STA. 335+00.00 "A"  
DES. NO. 0810243  
N: 110557.52  
E: 28720.41

MATCHLINE SEE PROJECT NO. 0810244

- (A) S 68° 35' 01" W
- (B) N 87° 42' 03" W
- (C) S 68° 35' 01" W
- (D) N 86° 57' 40" W
- (E) S 68° 35' 01" W
- (F) N 86° 44' 36" W
- (G) N 84° 27' 11" W
- (H) N 53° 56' 38" W
- (I) S 87° 30' 26" E
- (J) N 88° 24' 54" E
- (K) S 55° 32' 17" W
- (L) N 34° 27' 43" W
- (M) N 34° 27' 43" W
- (N) N 87° 19' 43" W
- (O) N 87° 19' 43" W
- (P) S 84° 36' 34" W
- (Q) S 84° 36' 34" W
- (R) S 55° 10' 22" W

NOTE: SEE SHEET GLP-02 FOR CURVE INFORMATION  
SEE DES. NO. 0900237 FOR LINE "LS-2" AND LINE "DI"

XXXX P.J. CURVE NUMBER

FOR INFORMATION ONLY

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JLC	DRAWN: JMM	
CHECKED: JMM	CHECKED: JLC	

INDIANA  
DEPARTMENT OF TRANSPORTATION

PROPOSED  
GEOMETRIC LAYOUT SHEET

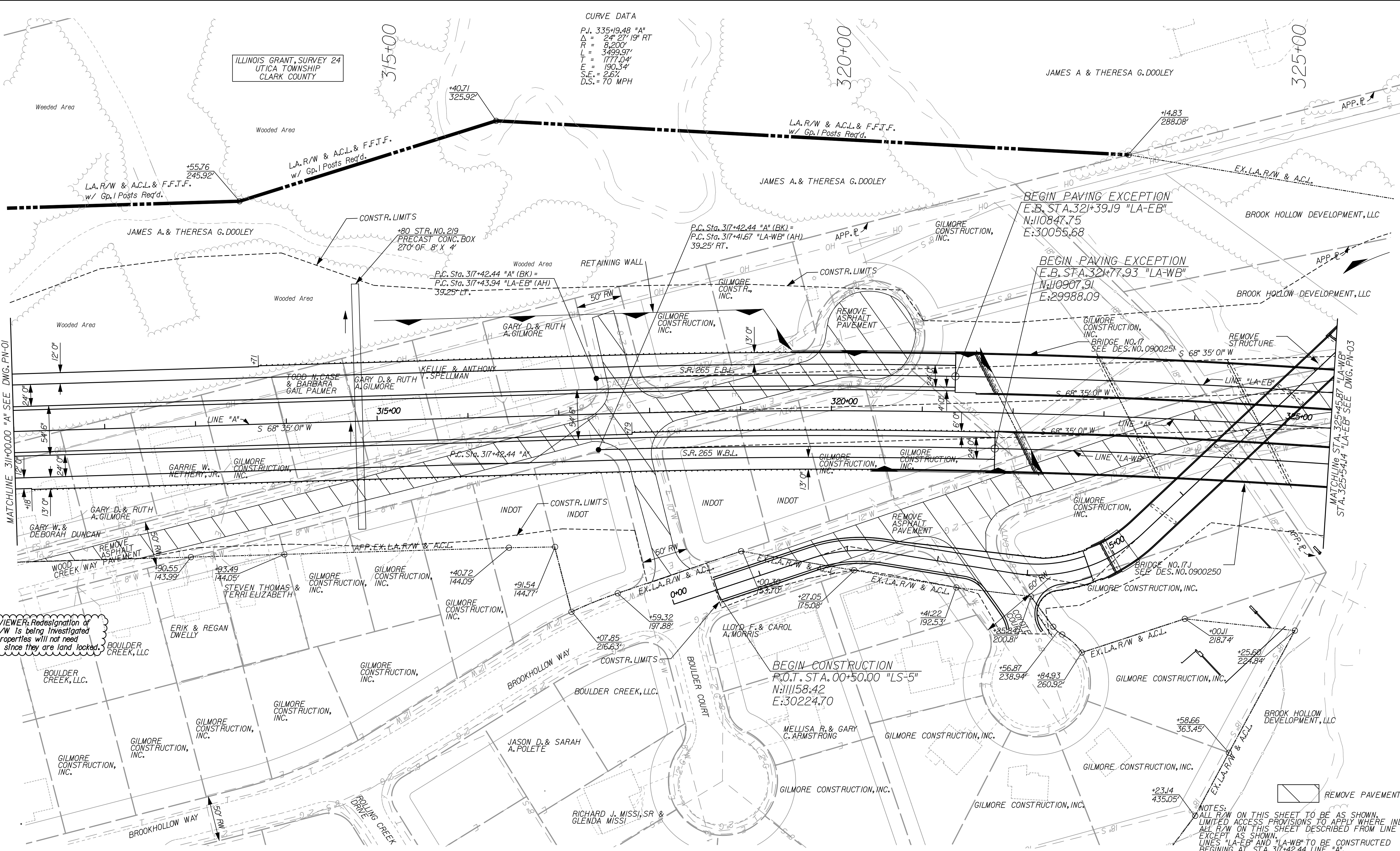
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VERTICAL SCALE	DESIGNATION 0810243
SURVEY BOOK	DWG. NO. SHEET NO. GLP-02 5 of 16
CONTRACT	PROJECT 0810243

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ILLINOIS GRANT SURVEY 24  
UTICA TOWNSHIP  
CLARK COUNTY

CURVE DATA  
P.I. 335+19.48 "A"  
 $\Delta = 24^{\circ} 27' 19" RT$   
R = 8,200'  
L = 3,499.97'  
T = 1,777.04'  
E = 190.34'  
S.E. = 2.6%  
D.S. = 70 MPH

JAMES A & THERESA G. DOOLEY



NOTE TO REVIEWER: Redesign of L.A.R/W to R/W is being investigated so that these properties will not need to be acquired since they are land locked.

NOTES:  
1. ALL R/W ON THIS SHEET TO BE AS SHOWN.  
2. LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.  
3. EXCEPT AS SHOWN, ALL R/W ON THIS SHEET DESCRIBED FROM LINE "A"  
4. LINES "LA-EB" AND "LA-WB" TO BE CONSTRUCTED BEGINNING AT STA. 317+42.44 LINE "A".

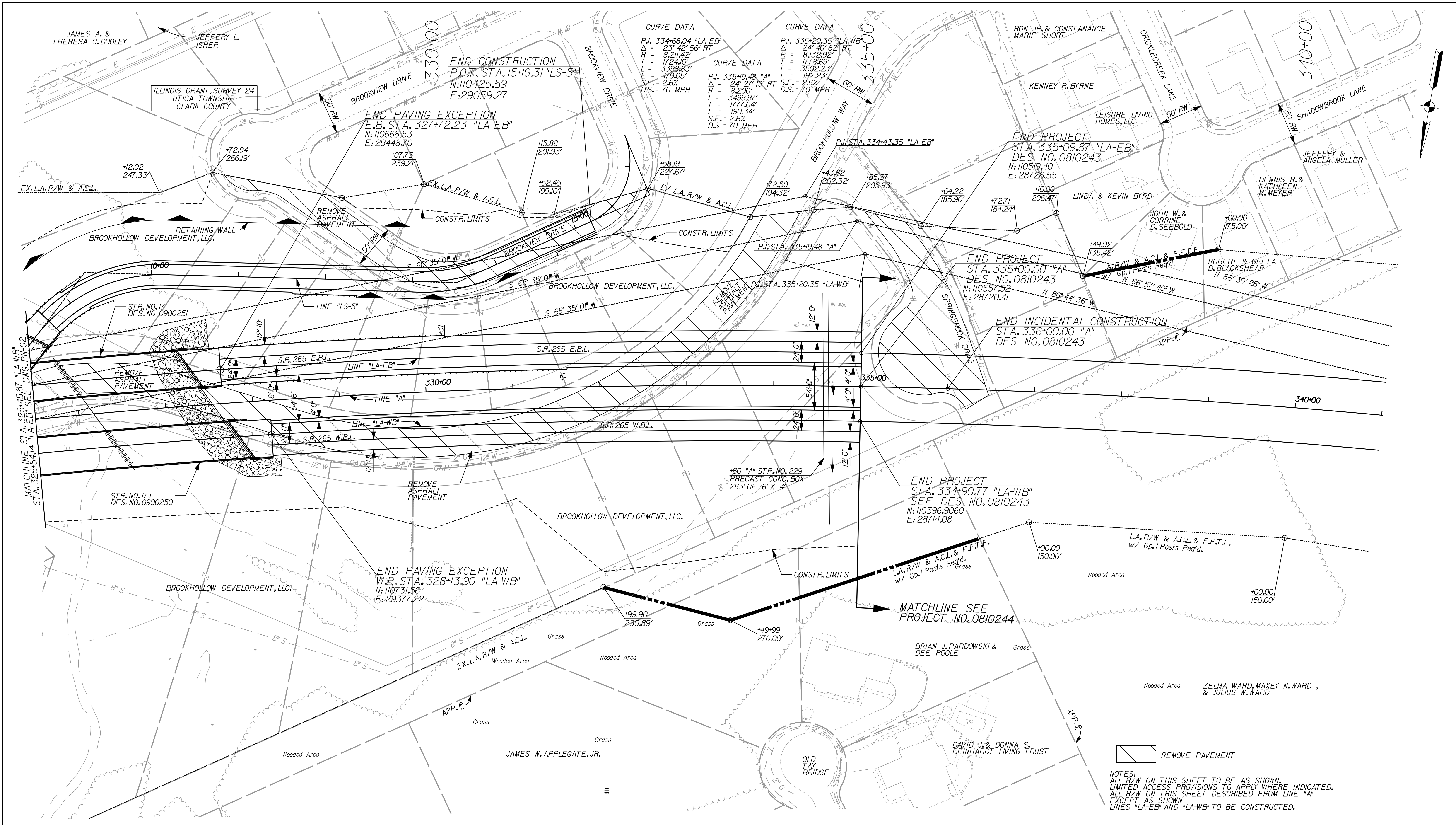
FOR INFORMATION ONLY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JLC	DRAWN: JMM	
CHECKED: JMM	CHECKED: JLC	

INDIANA  
DEPARTMENT OF TRANSPORTATION  
PLAN SHEET  
LINE "A", LINE "LA-EB"  
& LINE "LA-WB"

HORIZONTAL SCALE	BRIDGE FILE	
VERTICAL SCALE	DESIGNATION	
SURVEY BOOK	DWG. NO.	SHEET NO.
CONTRACT	PROJECT	

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**CURVE DATA**

P.I. 334+68.04 "LA-EB"	P.I. 335+20.35 "LA-WB"
$\Delta = 23^\circ 42' 56"$ RT	$\Delta = 24^\circ 40' 62"$ RT
R = 8,211.42'	R = 8,132.92'
T = 1724.10'	T = 1778.89'
L = 3398.83'	L = 3502.23'
E = 170.05'	E = 190.23'
S.E. = 2.6%	S.E. = 2.6%
D.S. = 70 MPH	D.S. = 70 MPH

FOR INFORMATION ONLY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JLC	DRAWN: JMM	
CHECKED: JMM	CHECKED: JLC	

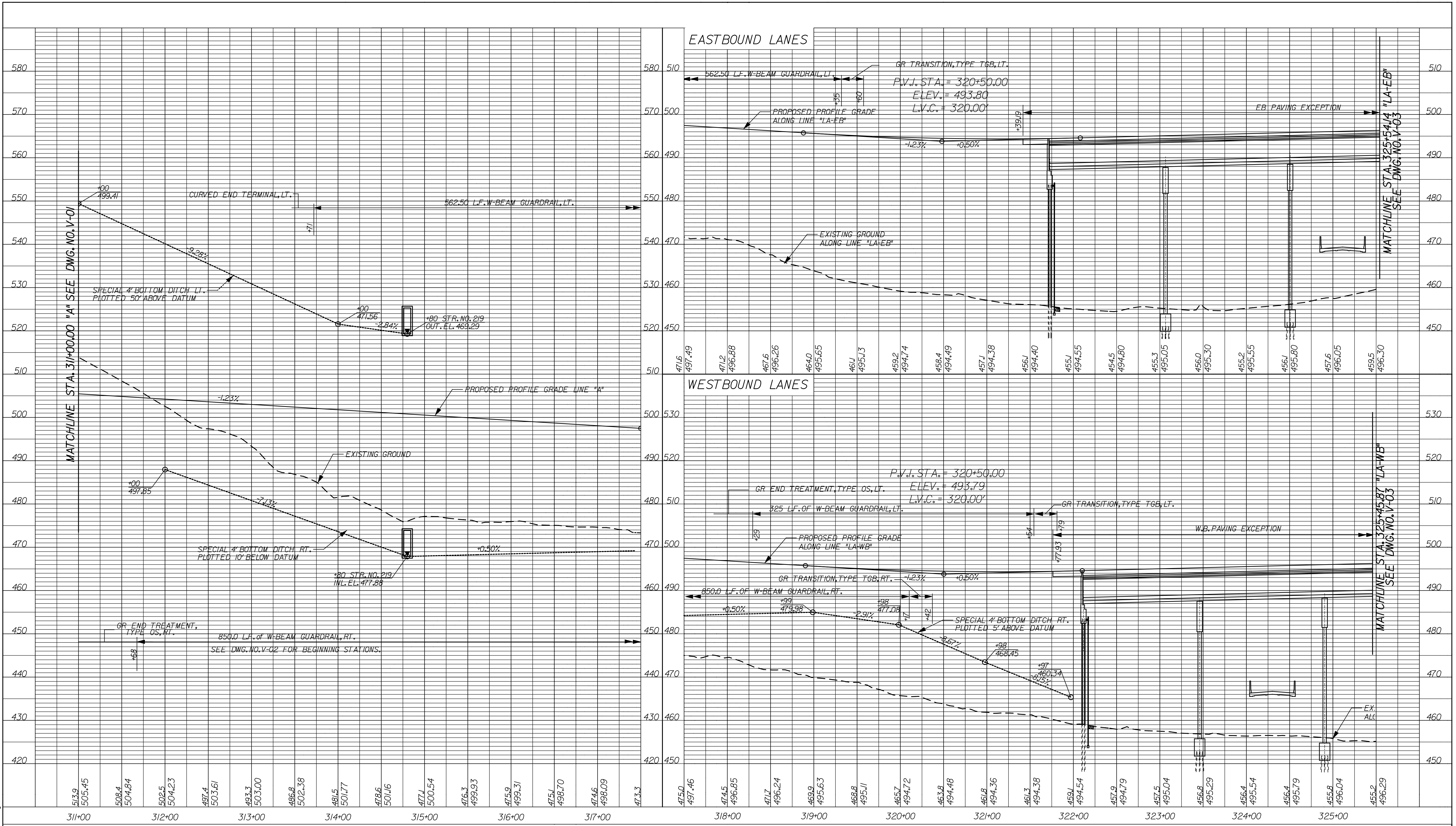
INDIANA  
DEPARTMENT OF TRANSPORTATION  
PLAN SHEET  
STA. 325+54.14 TO 335+08.92 "LA-EB"  
STA. 325+45.87 TO 334+90.92 "LA-WB"

HORIZONTAL SCALE	BRIDGE FILE	
1" = 50'		
VERTICAL SCALE	DESIGNATION	
	0810243	
SURVEY BOOK	DWG. NO.	SHEET NO.
	PN-02	7 of 16
CONTRACT	PROJECT	
	0810243	

NOTES:  
ALL R/W ON THIS SHEET TO BE AS SHOWN.  
LIMITED ACCESS PROVISIONS TO APPLY WHERE INDICATED.  
ALL R/W ON THIS SHEET DESCRIBED FROM LINE "A"  
EXCEPT AS SHOWN  
LINES "LA-EB" AND "LA-WB" TO BE CONSTRUCTED.

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FOR INFORMATION ONLY

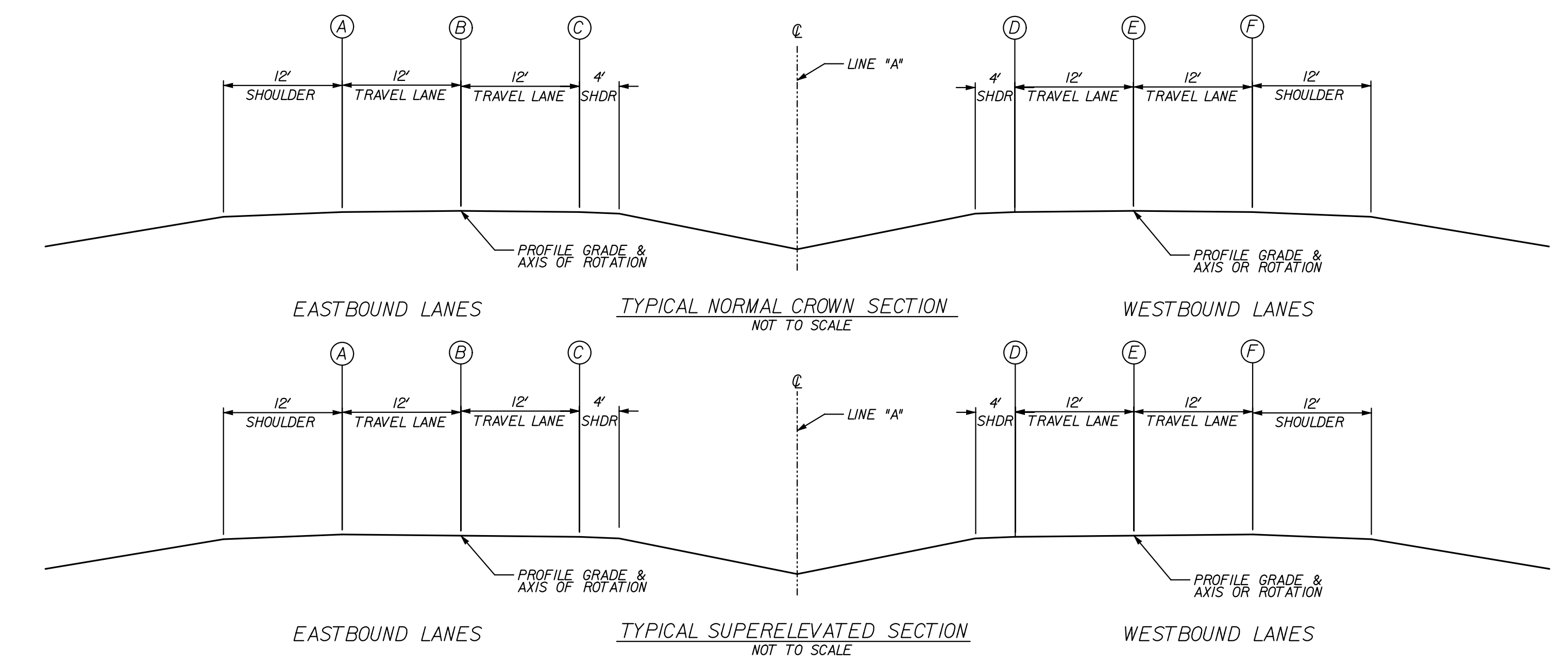
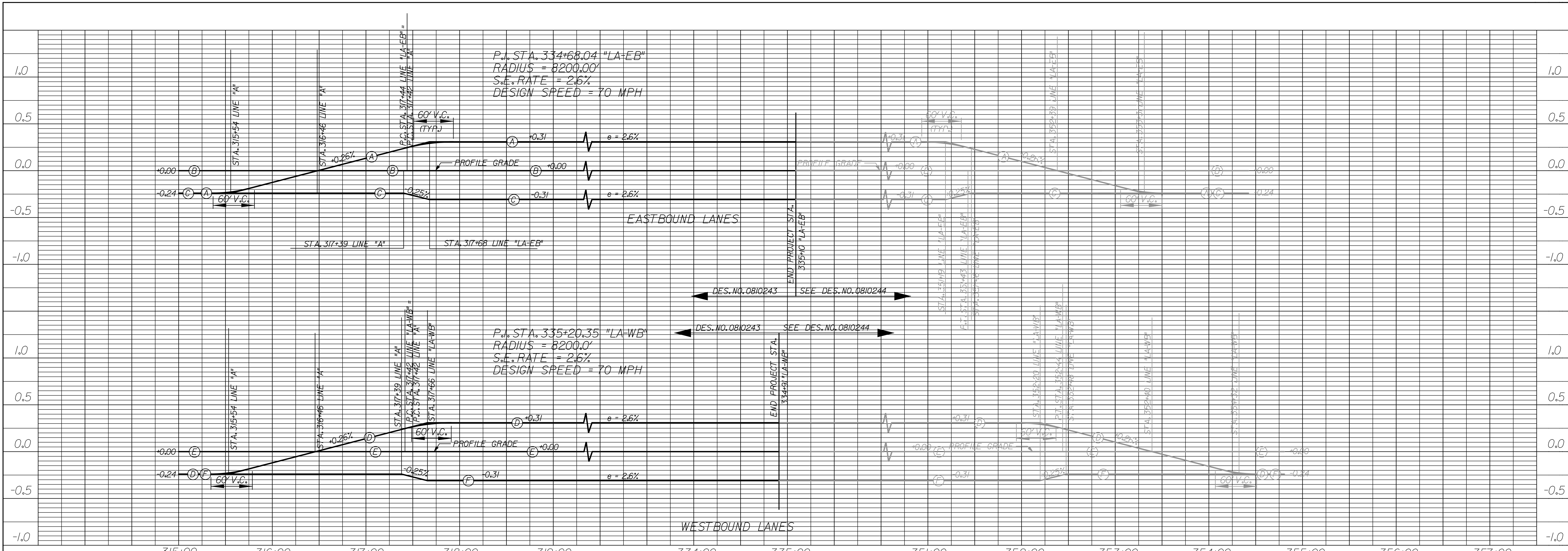
RECOMMENDED FOR APPROVAL _____	
DESIGN ENGINEER	DATE
DESIGNED: JLC	DRAWN: JMM
CHECKED: JMM	CHECKED: JLC

INDIANA  
 DEPARTMENT OF TRANSPORTATION  
 PROFILE SHEET  
 LINE "A", LINE "LA-EB" & LINE "LA-WB"  
 STA. 311+00 TO STA. 326+00

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE	
VERTICAL SCALE 1" = 10'	DESIGNATION 0810243	
SURVEY BOOK	DWG. NO. V-01	SHEET NO. 8 of 16
CONTRACT	PROJECT 0810243	







FOR INFORMATION ONLY

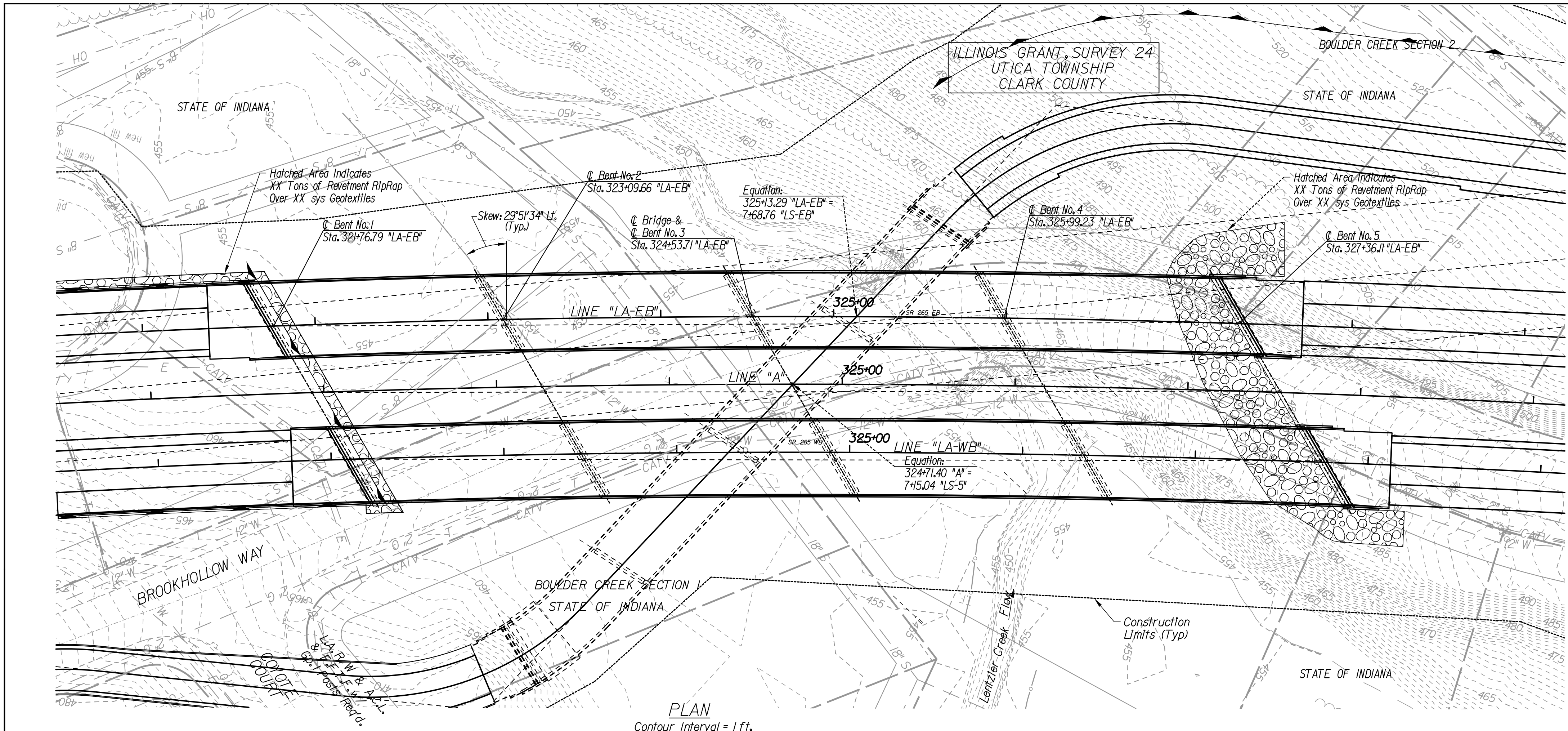
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JLC	DRAWN: JMM	
CHECKED: JMM	CHECKED: JLC	

INDIANA  
DEPARTMENT OF TRANSPORTATION

SUPERELEVATION DIAGRAM  
LINE "A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE	
VERTICAL SCALE 1" = 0.5'	DESIGNATION 0810243	
SURVEY BOOK	DWG. NO. SE-01	SHEET NO. 10 of 16
CONTRACT	PROJECT 0810243	

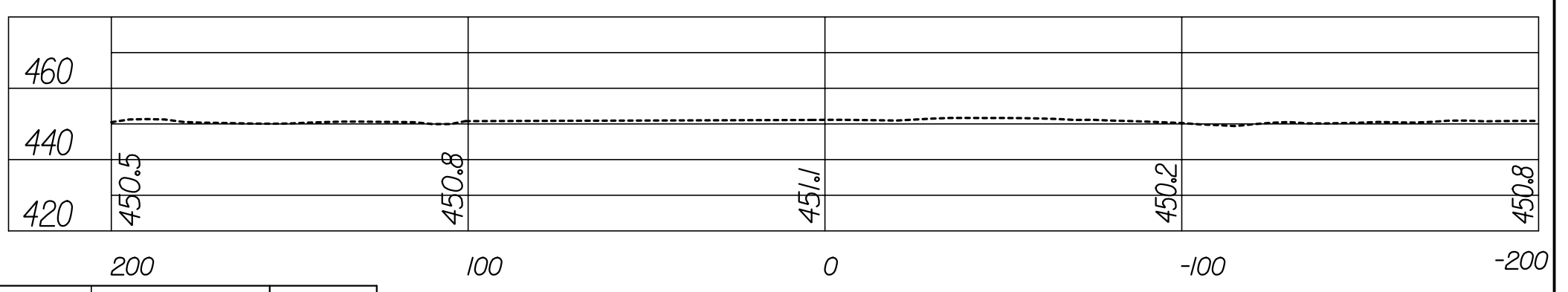
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CURVE DATA	CURVE DATA	CURVE DATA
LINE "LA-EB" P.I. Sta. 334+68.04 Δ = 23°42'56" Right D = 0°41'51.9" R = 8211.42' T = 1724.0' L = 3398.83' E = 179.05'	LINE "A" P.I. Sta. 335+19.48 Δ = 24°27'19" Right D = 0°41'55.42" R = 8200' T = 1777.04' L = 3499.97' E = 190.34'	LINE "LA-WB" P.I. Sta. 335+20.35 Δ = 24°40'22.62" Right D = 0°42'16.7" R = 8132.92' T = 1778.69' L = 3502.23' E = 192.23'

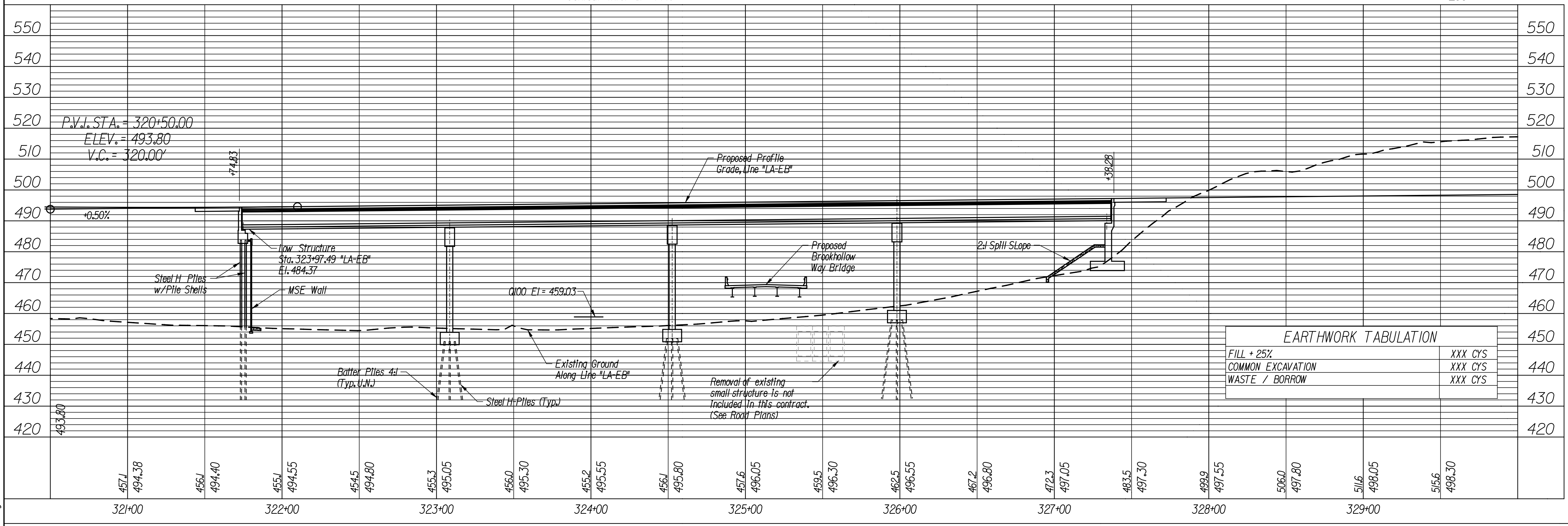
UTILITIES  
See Index, Sheet No. 2.

No Existing Structure at this site.



STREAM PROFILE  
Scale: 1" = 40'

ITEM	UNIT	PROPOSED STRUCTURE
Drainage Area	sq mi	4.21
Q100 Discharge	cfs	2,600
Q100 Elevation	ft	459.03
Q100 Backwater	ft	0.09
Q100 Velocity	ft/sec	2.33
Waterway Area Through Structure	sft	1059.48
Minimum Low Structure Elevation	ft	484.37
Discharge Through Bridge	cfs	2,600
Discharge Over Road	cfs	0
Roadway Overflow Area	sft	0.0
Q500 Scour Elevation		427.61



CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BULB-TEE BEAM BRIDGE  
CLARK COUNTY  
4 Spans: 135'-0", 145'-0", 145'-0", & 135'-0" ALONG LONG CHORD TO LINE "A"  
Skew: 29°51'34" Lt. To LINE "LA-EB" Chord  
42'-4" Clear Roadway

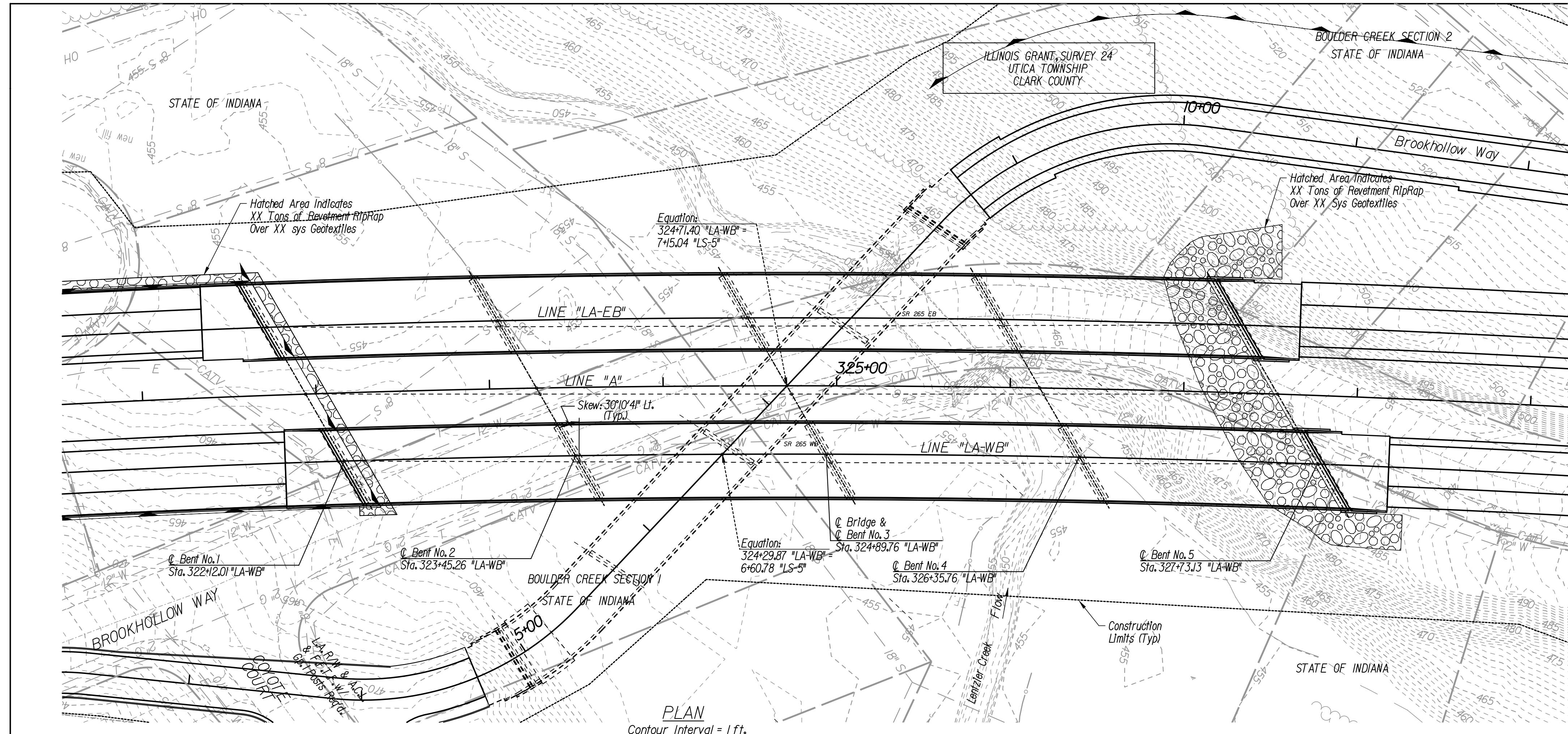
NOTE:  
SEE ROAD PLANS (DES NO. 0810243)  
FOR ALIGNMENT'S TIES AND BENCHMARKS.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SJA	DRAWN: JLF	
CHECKED: ELS	CHECKED: SJA	

INDIANA  
DEPARTMENT OF TRANSPORTATION  
S.R. 265 E.B. OVER LENTZIER CREEK & BROOKHOLLOW WAY LAYOUT

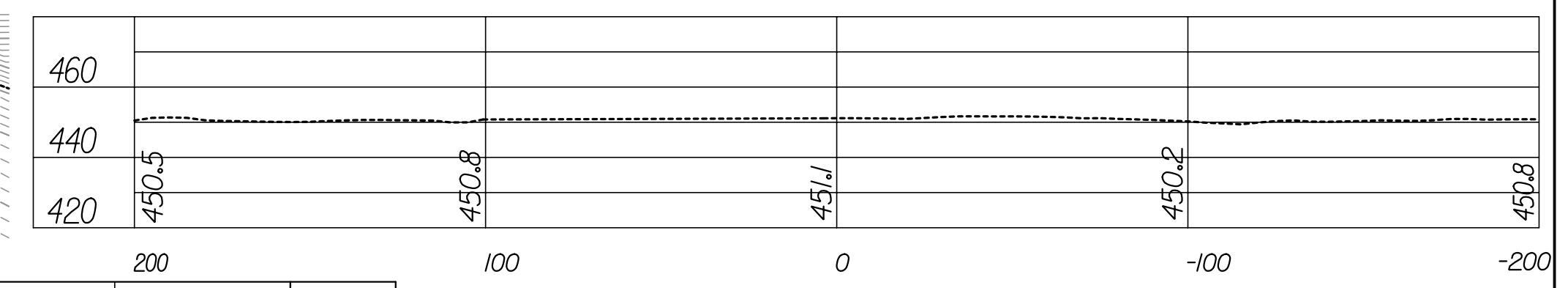
HORIZONTAL SCALE 1" = 40'	BRIDGE FILE TBD
VERTICAL SCALE 1" = 20'	DESIGNATION 0810243
SURVEY BOOK TBD	DWG. NO. LY-01
	SHEET NO. II of 16
CONTRACT TBD	PROJECT 0810243

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CURVE DATA	CURVE DATA	CURVE DATA
LINE "LA-EB" P.I. Sta. 334+68.04 Δ = 23°42'56" Right D = 0°41'51.9" R = 8211.42' T = 1724.0' L = 3398.83' E = 179.05'	LINE "A" P.I. Sta. 335+19.48 Δ = 24°27'19" Right D = 0°41'55.42" R = 8200' T = 1777.04' L = 3499.97' E = 190.34'	LINE "LA-WB" P.I. Sta. 335+20.35 Δ = 24°40'22.62" Right D = 0°42'16.7" R = 8132.92' T = 1778.69' L = 3502.23' E = 192.23'

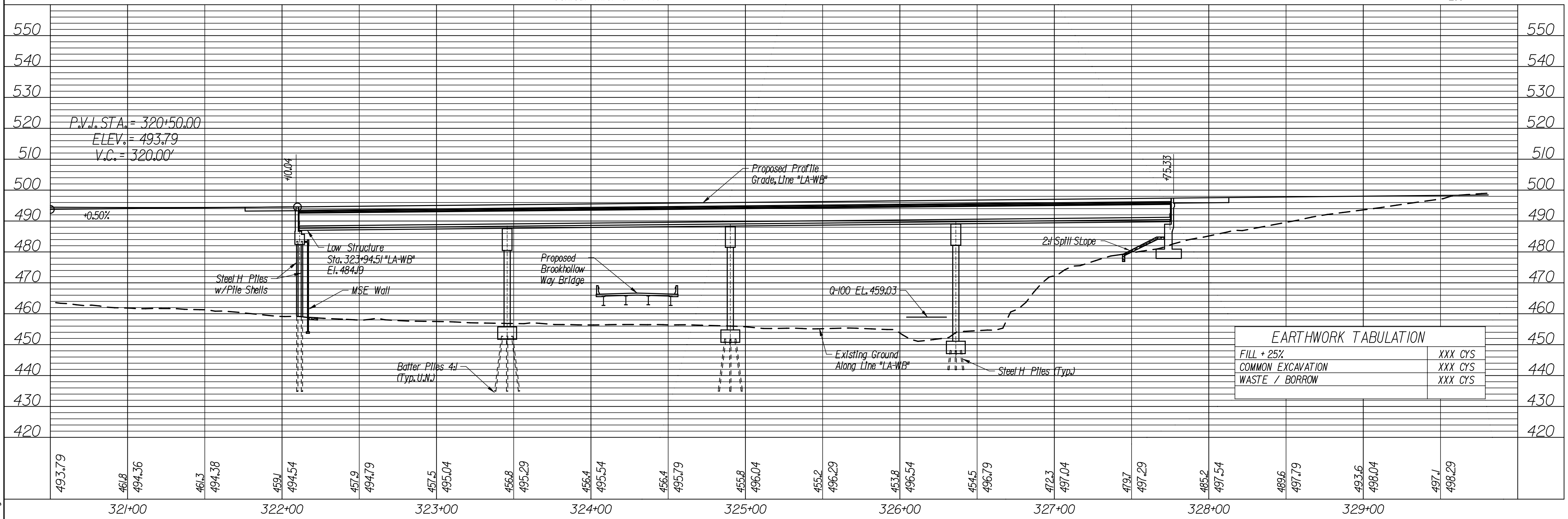
UTILITIES  
See Index, Sheet No. 2.



STREAM PROFILE  
Scale: 1" = 40'

HYDRAULIC DATA TABLE		
ITEM	UNIT	PROPOSED STRUCTURE
Drainage Area	sq mi	4.21
Q100 Discharge	cfs	2,600
Q100 Elevation	ft	459.03
Q100 Backwater	ft	0.09
Q100 Velocity	ft/sec	2.33
Waterway Area Through Structure	sft	1059.48
Minimum Low Structure Elevation	ft	484.19
Discharge Through Bridge	cfs	2,600
Discharge Over Road	cfs	0
Roadway Overflow Area	sft	0.0
Q500 Scour Elevation		427.61

EARTHWORK TABULATION	
FILL + 25%	XXX CYS
COMMON EXCAVATION	XXX CYS
WASTE / BORROW	XXX CYS



CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BULB-TEE BEAM BRIDGE  
CLARK COUNTY

4 Spans: 135'-0", 145'-0", 145'-0", & 135'-0" ALONG LONG CHORD TO LINE "A"  
Skew: 30°10'4" Lt. To LINE "LA-WB" Chord  
42'-4" Clear Roadway

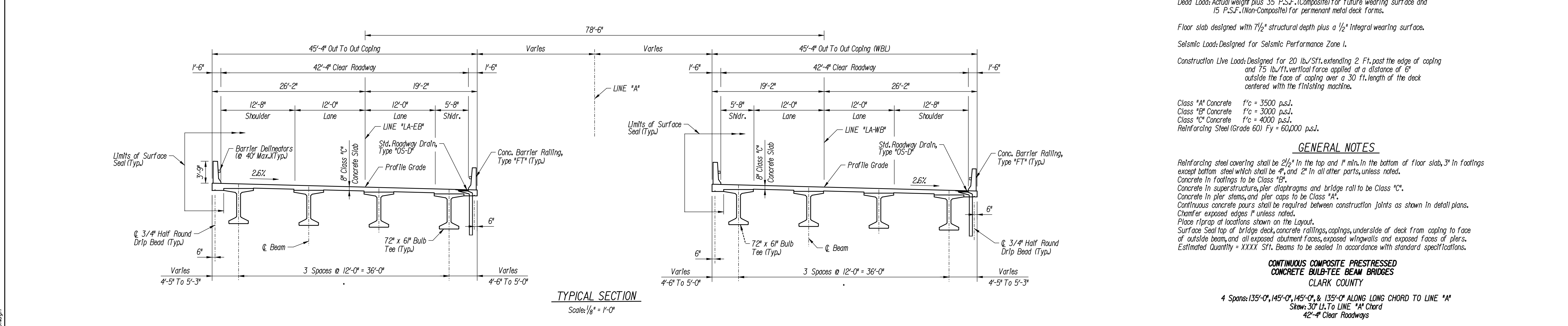
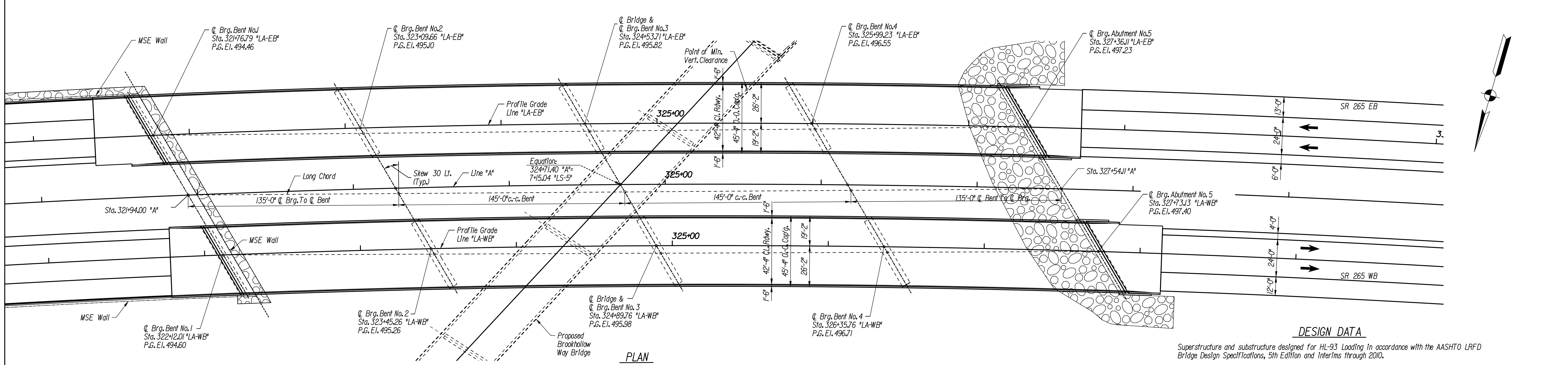
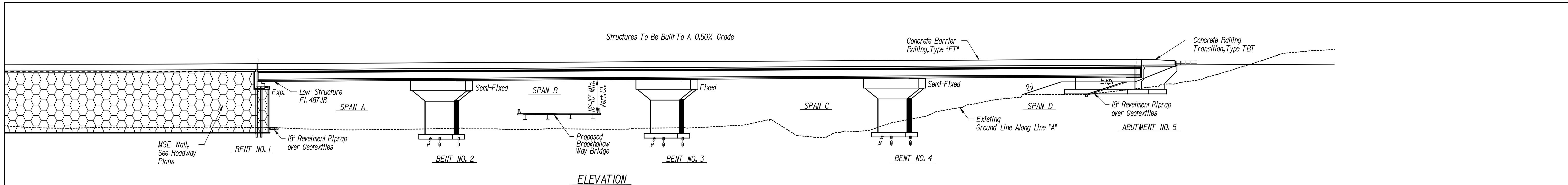
NOTE:  
SEE ROAD PLANS (DES NO. 0810243)  
FOR ALIGNMENTS TIES AND BENCHMARKS.

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SJA	DRAWN: JLF	
CHECKED: ELS	CHECKED: SJA	

INDIANA  
DEPARTMENT OF TRANSPORTATION  
S.R. 265 W.B. OVER LENTZIER CREEK & BROOKHOLLOW WAY  
LAYOUT

HORIZONTAL SCALE 1" = 40'	BRIDGE FILE TBD
VERTICAL SCALE 1" = 20'	DESIGNATION 0810243
SURVEY BOOK TBD	DWG. NO. LY-02
	SHEET NO. 12 of 16
CONTRACT TBD	PROJECT 0810243

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**DESIGN DATA**

Superstructure and substructure designed for HL-93 Loading in accordance with the AASHTO LRFD Bridge Design Specifications, 5th Edition and Interims through 2010.

Dead Load: Actual weight plus 35 P.S.F. (Composite) for future wearing surface and 15 P.S.F. (Non-Composite) for permanent metal deck forms.

Floor slab designed with 7/2" structural depth plus a 1/2" integral wearing surface.

Seismic Load: Designed for Seismic Performance Zone 1.

Construction Live Load: Designed for 20 lb./Sf. extending 2 Ft. past the edge of coping and 75 lb./ft. vertical force applied at a distance of 6" outside the face of coping over a 30 ft. length of the deck centered with the finishing machine.

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

**GENERAL NOTES**

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

Concrete in footings to be Class "B".

Concrete in superstructure, pier diaphragms and bridge rail to be Class "C".

Concrete in pier stems, and pier caps to be Class "A".

Continuous concrete pours shall be required between construction joints as shown in detail plans. Chamfer exposed edges if unless noted.

Place riprap at locations shown on the Layout.

Surface Seal top of bridge deck, concrete railings, copings, underside of deck from coping to face of outside beam, and all exposed abutment faces, exposed wingwalls and exposed faces of piers. Estimated Quantity = XXXX Sft. Beams to be sealed in accordance with standard specifications.

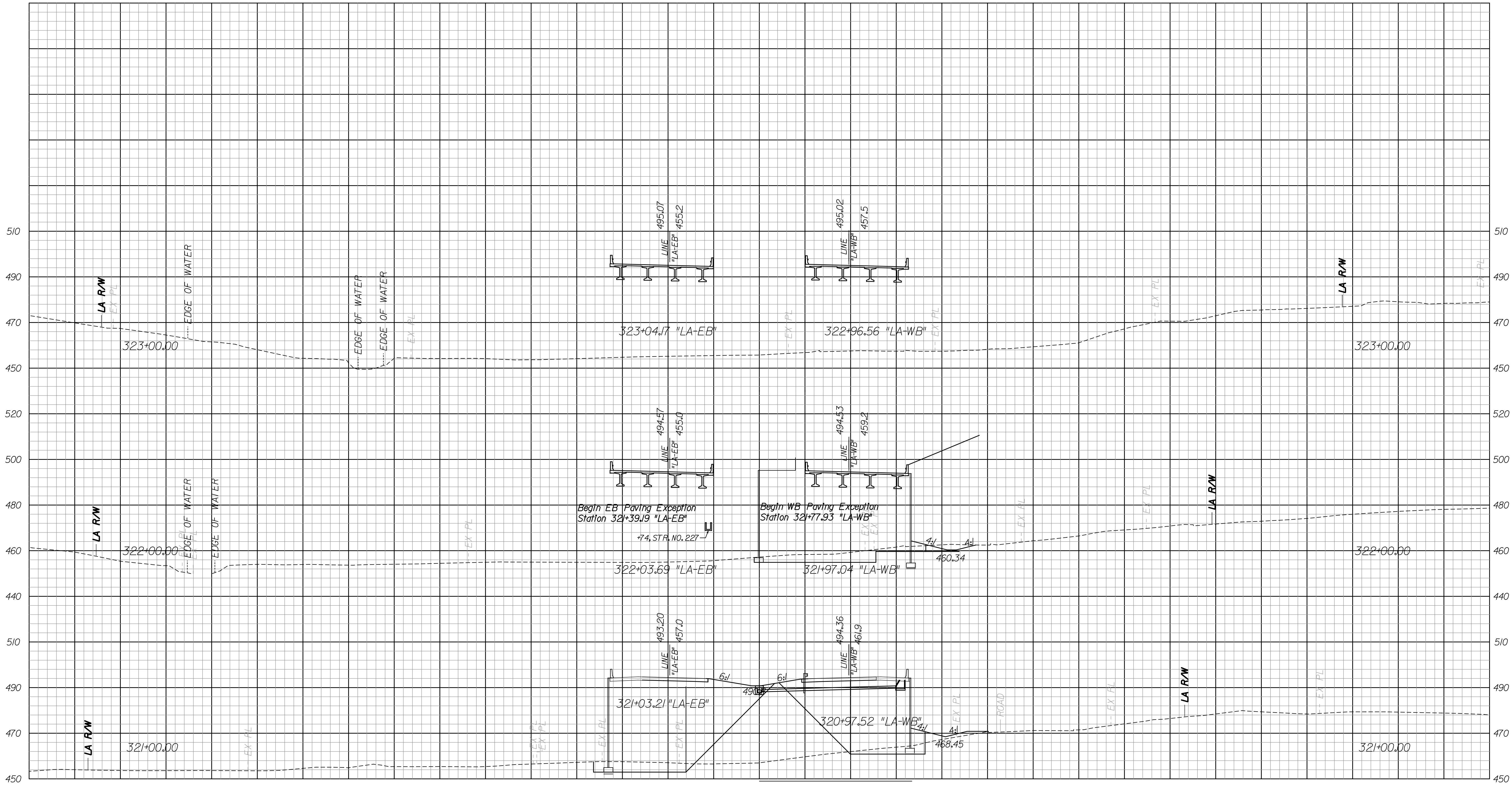
**CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BULB-TEE BEAM BRIDGES**  
**CLARK COUNTY**

4 Spans: 135'-0", 145'-0", 145'-0", & 135'-0" ALONG LONG CHORD TO LINE "A"  
 Skew: 30° Lt. To LINE "A" Chord  
 42'-4" Clear Roadways

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	<b>INDIANA</b> <b>DEPARTMENT OF TRANSPORTATION</b>	HORIZONTAL SCALE 1" = 30' VERTICAL SCALE 1" = 30'	BRIDGE FILE TBD DESIGNATION 0900250 & 0900251
DESIGNED: SJA CHECKED: ELS	DRAWN: JLF CHECKED: SJA	<b>S.R. 265 OVER LENTZIER CREEK &amp; BROOKHOLLOW WAY</b> <b>GENERAL PLAN</b>	
		SURVEY BOOK CONTRACT	DWG. NO. SHEET NO. PROJECT 09001250 & 09001251

320 300 280 260 240 220 200 180 160 140 120 100 80 60 40 20 0 20 40 60 80 100 120 140 160 180 200 220 240 260 280 300



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FOR INFORMATION ONLY

RECOMMENDED FOR APPROVAL \_\_\_\_\_  
DESIGN ENGINEER DATE

DESIGNED: AMH DRAWN: AMH  
CHECKED: JLC CHECKED: JMM

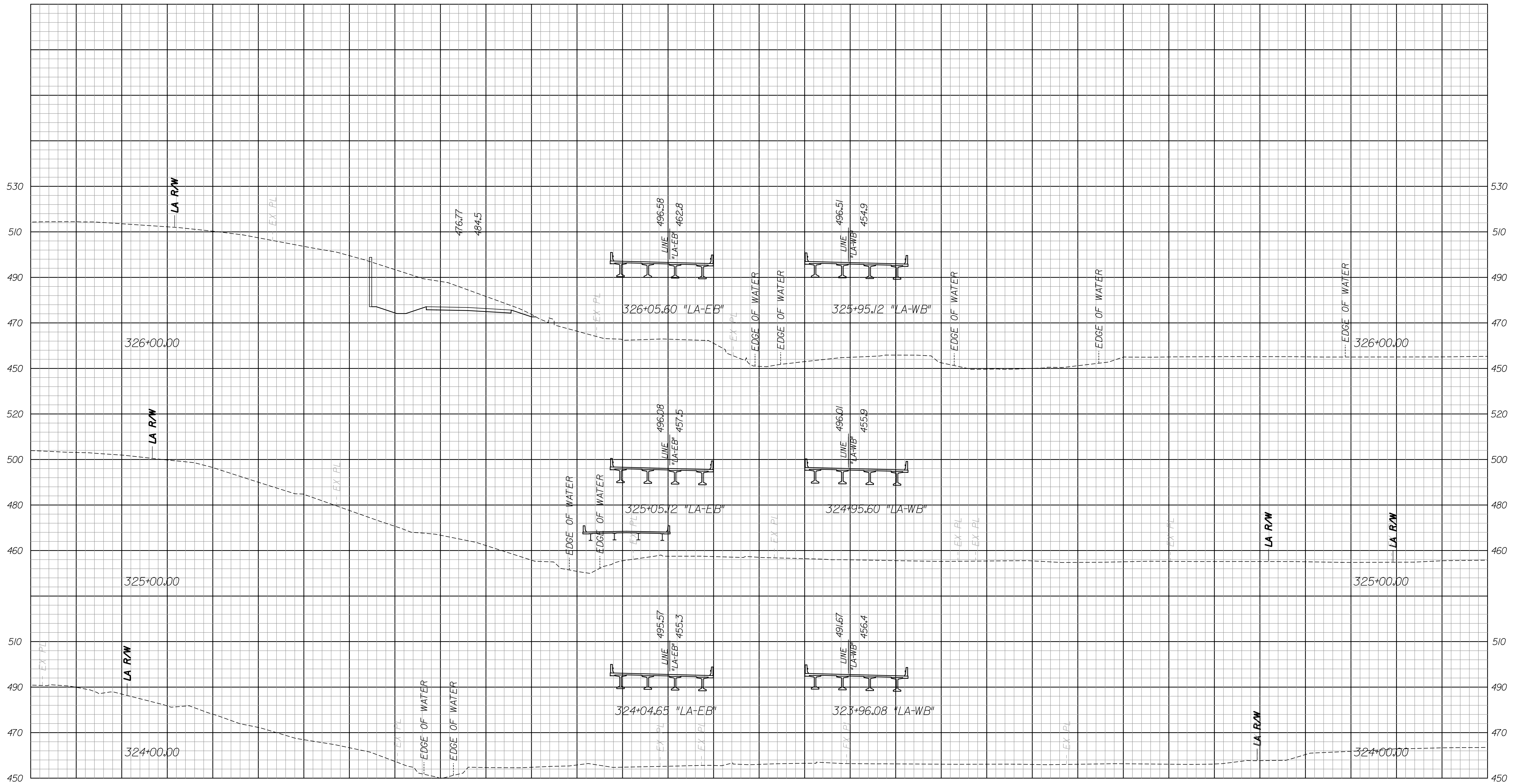
INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE "A"  
STA. 321+00.00 TO 323+00.00

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE	
VERTICAL SCALE 1" = 20'	DESIGNATION 0810243	
SURVEY BOOK	DWG. NO. XS-01	SHEET NO. 14 of 16
CONTRACT	PROJECT 0810243	

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FOR INFORMATION ONLY

RECOMMENDED FOR APPROVAL \_\_\_\_\_ DESIGN ENGINEER \_\_\_\_\_ DATE \_\_\_\_\_  
 DESIGNED: AMH DRAWN: AMH  
 CHECKED: JLC CHECKED: JMM

INDIANA DEPARTMENT OF TRANSPORTATION  
 CROSS SECTIONS LINE "A"  
 STA. 324+00.00 TO 326+00.00

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE	
VERTICAL SCALE 1" = 20'	DESIGNATION 0810243	
SURVEY BOOK	DWG. NO. XS-02	SHEET NO. 15 of 16
CONTRACT	PROJECT 0810243	

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