

PROJECT	DESIGNATION
1801455	1801455
CONTRACT	BRIDGE FILE
B-41320	JOHNSON 602

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
JOHNSON COUNTY 602	COMPOSITE PRESTRESSED CONCRETE HYBRID BULB-TEE	1 SPAN @ 93'-0" SKEW: 15°27' LT	LOUISVILLE AND INDIANA RAILROAD	88+89.36 "A"

# INDIANA DEPARTMENT OF TRANSPORTATION



## BRIDGE REPLACEMENT PLANS

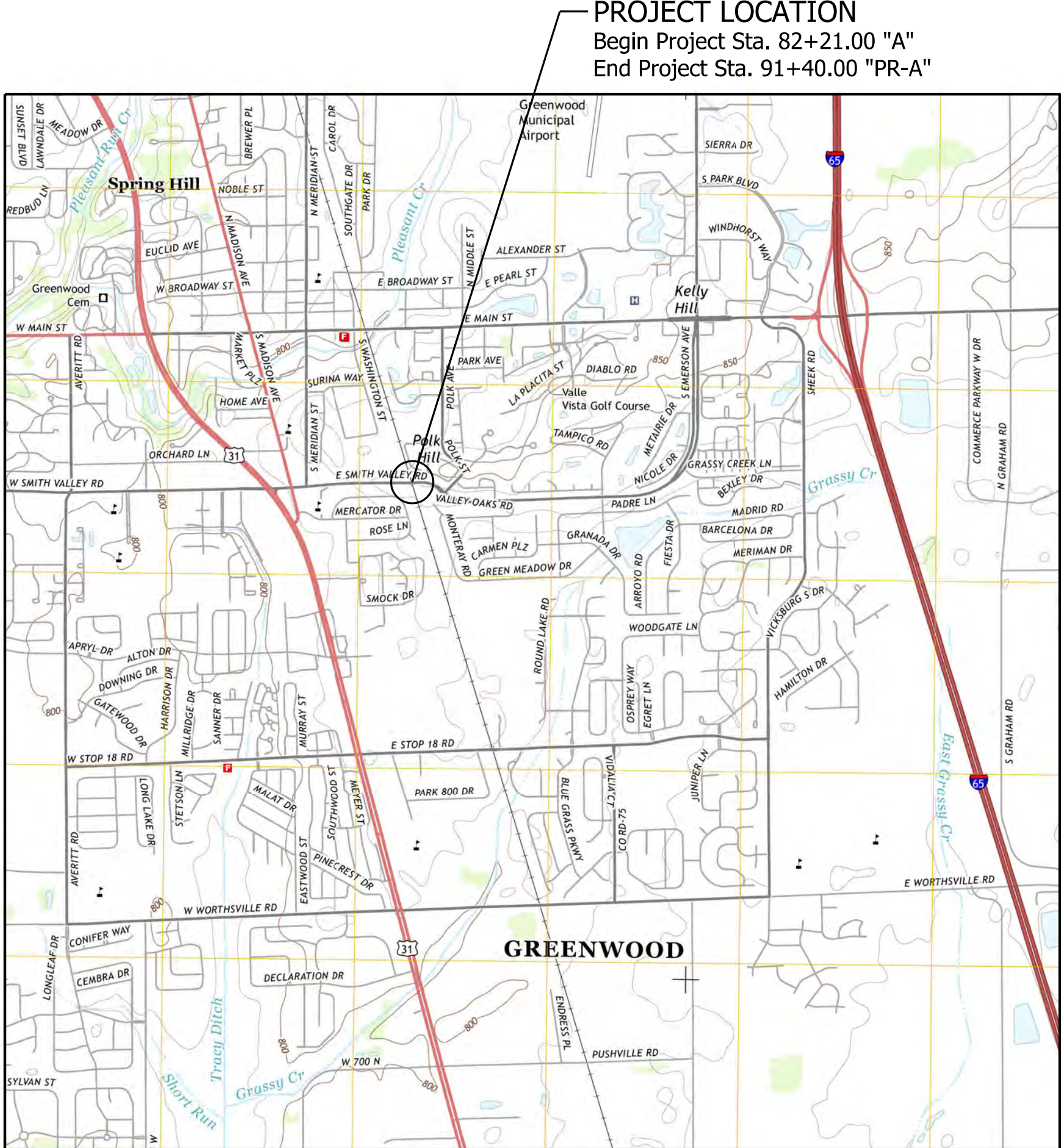
FOR SPANS OVER 20 FEET

SMITH VALLEY ROAD OVER  
LOUISVILLE AND INDIANA RAILROAD

PROJECT NO. 1801455 CONST.

BRIDGE REPLACEMENT ON SMITH VALLEY ROAD OVER LOUISVILLE AND INDIANA RAILROAD  
LOCATED APPROXIMATELY 0.46 MILES EAST OF U.S. HIGHWAY 31  
IN SECTIONS 32 AND 33, T14N, R4E, AND SECTIONS 4 AND 5, T13N, R4E  
PLEASANT TOWNSHIP, JOHNSON COUNTY, INDIANA

NO ADDITIONAL RIGHT-OF-WAY  
REQUIRED FOR THIS PROJECT



PROJECT LOCATION  
Begin Project Sta. 82+21.00 "A"  
End Project Sta. 91+40.00 "PR-A"

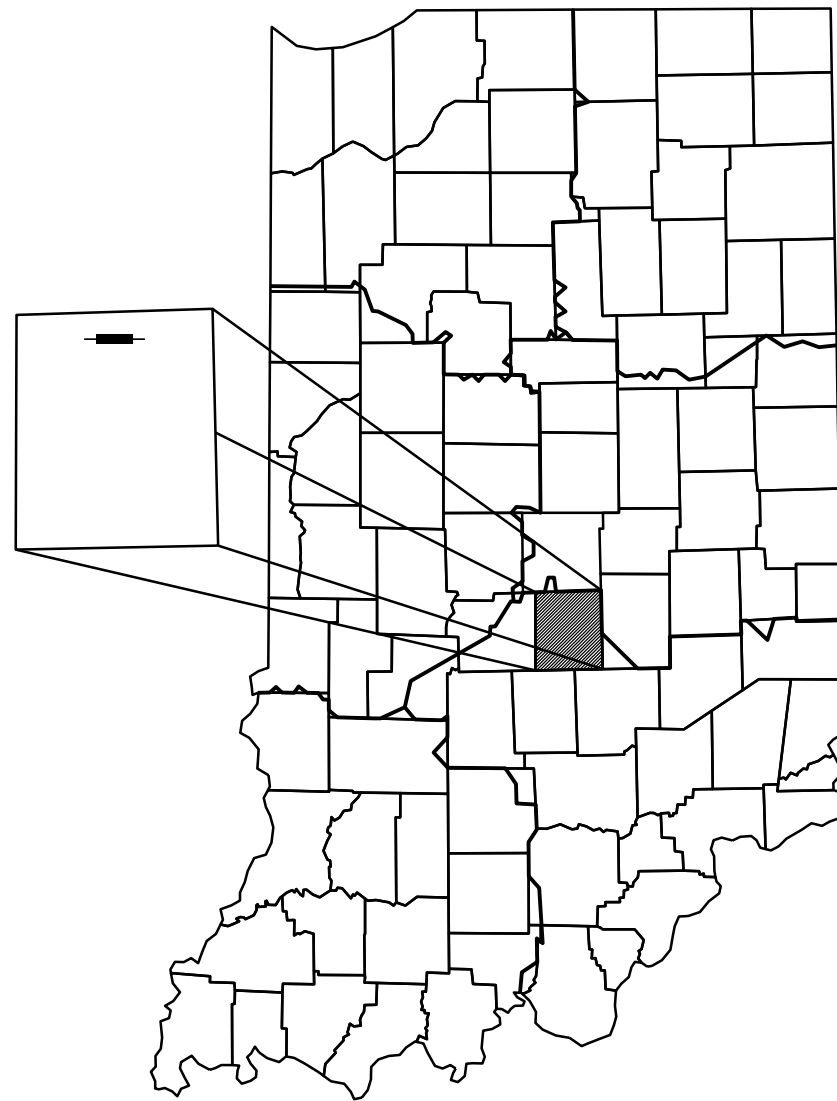
SCALE: 1:2000

### TRAFFIC DATA

A.A.D.T. (2019)	17787 V.P.D.
A.A.D.T. (2039)	19653 V.P.D.
D.H.V (20__)	V.P.H.
DIRECTIONAL DISTRIBUTION	50%
TRUCKS	4% A.A.D.T. % D.H.V.

### DESIGN DATA

DESIGN SPEED	35 M.P.H.
PROJECT DESIGN CRITERIA	4R (RECONSTRUCTION)
FUNCTIONAL CLASSIFICATION	URBAN ARTERIAL
RURAL/URBAN	URBAN
TERRAIN	LEVEL
ACCESS CONTROL	NONE



PROJECT LOCATION SHOWN BY —

JOHNSON COUNTY

LATITUDE: 39°36'23.93" N LONGITUDE: 86°05'59.72" W

BRIDGE LENGTH: 0.017 MI.  
ROADWAY LENGTH: 0.157 MI.  
TOTAL LENGTH: 0.174 MI.  
MAX. GRADE: 5.00 %

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

PLANS  
PREPARED BY:



(317)293-9024  
PHONE NUMBER

CERTIFIED BY:

DATE

APPROVED  
FOR LETTING:

INDIANA DEPARTMENT OF TRANSPORTATION

DATE

BRIDGE FILE

JOHNSON 602

DESIGNATION

1801455

SURVEY BOOK

SHEETS

1

of

82

CONTRACT

PROJECT

B-41320

1801455



## UTILITIES

City of Greenwood  
367 S. Washington Street  
Greenwood, IN 46143  
Contact: Keith Meier  
PH: (317) 888-1254  
EMail: [meierk@greenwood.in.gov](mailto:meierk@greenwood.in.gov)

TELECOM:  
CenturyLink (Level 3)  
1902 S. East Street  
Indianapolis, IN 46225  
Contact: DeWayne Hamilton  
PH: (317) 966-3356  
Email: dewayne.hamilton@level3.com

CATV:  
Telecom Placement Inc. (Comcast)  
Contact: Scott Evans  
PH: (317) 752-6569  
Email: [sevens@telecomplacement.com](mailto:sevens@telecomplacement.com)

Crown Castle  
Address  
Address  
Contact: Craig Brown  
PH: (317) 819-8648  
EMail: [craig.brown@crowncastle.com](mailto:craig.brown@crowncastle.com)

GAS:  
CenterPoint Energy/Vectren  
1800 W. 26th Street  
Muncie, IN 47302  
Contact: Mostafa Khallad  
PH: (765) 287-2150  
EMail: [mostafa.khallad@centerpointenergy.com](mailto:mostafa.khallad@centerpointenergy.com)

Metro Fibernet  
3701 Communications Way  
Evansville, IN 47715  
Contact: Korie Nellis  
PH: (812) 213-1378  
EMail: [korie.nellis@metronetinc.com](mailto:korie.nellis@metronetinc.com)

POWER:  
Duke Energy (Distribution)  
Address  
Address  
Contact: Cindy Rowland  
PH: (317) 776-5341  
EMail: cindy.rowland@duke-energy.com

TCS Communications  
4355 LaFayette Boulevard  
Indianapolis, IN 46258  
Contact: Mike Marafine  
PH: (241) 597-4716  
EMail: [mike.marafine@tesinllc.com](mailto:mike.marafine@tesinllc.com)

Duke Energy (Transmission)  
Address  
Address  
Contact: Dwayne Wright  
PH: (317) 838-2044  
EMail: DEI-TLine-Coord@duke-energy.com

Zayo Bandwidth  
Address  
Address  
Contact: Waylon Higgins  
PH:  
EMail: [inky\\_relo@zayo.com](mailto:inky_relo@zayo.com)

TELECOM:  
AT&T (Distribution)  
240 N. Meridian Street  
Room 1791  
Indianapolis, IN 46204  
Contact: Matt Spindler  
PH: (317) 265-3050  
EMAIL: ms4822@att.com

WATER:  
Indiana American Water  
Address  
Address  
Contact: Ryan Moore  
PH: (317) 885-2404  
Email: [inutilitycoordination@amwater.com](mailto:inutilitycoordination@amwater.com)

AT&T (Transmission)  
1010 N. Saint Mary Street  
San Antonio, TX 78215  
Contact: Kenneth Colwell  
PH: (312) 734-2223  
Email: kc1298@att.com

## REVISIONS

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## INDEX

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Know what's below.  
**Call** before you dig.  
 "IT'S THE LAW"  
 1-800-382-5544 or 811

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: ESC	DRAWN: ESC	
CHECKED: JLR	CHECKED: ESC	

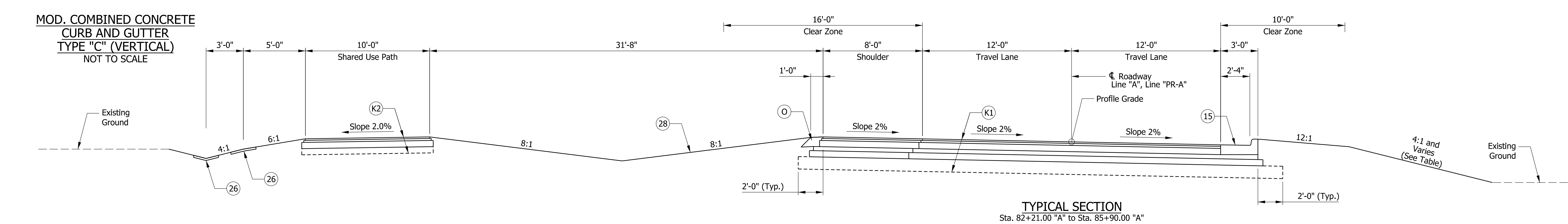
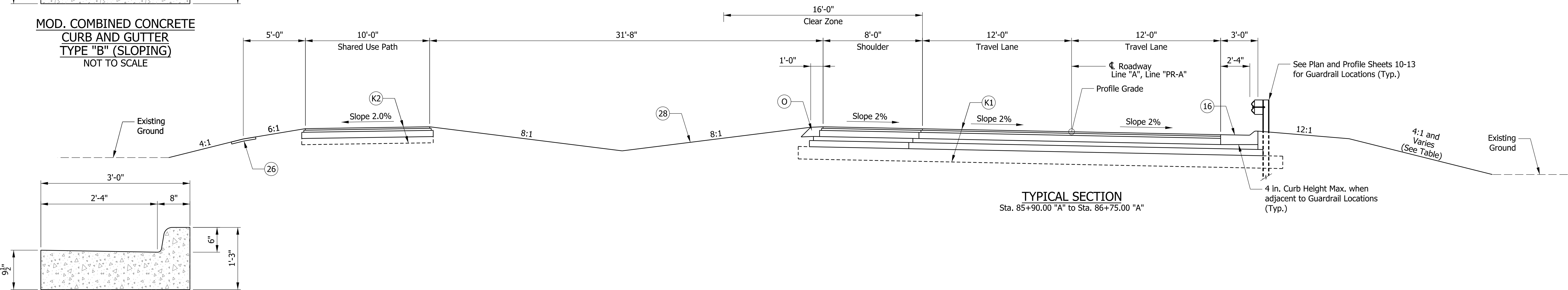
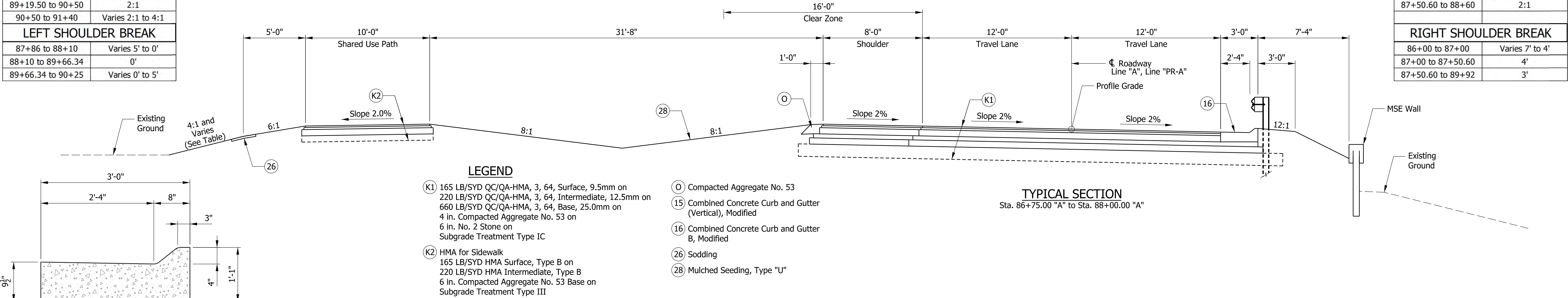
INDIANA  
DEPARTMENT OF TRANSPORTATION

## INDEX

	BRIDGE FILE		
	JOHNSON 602		
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	1801455		
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B-41320	1801455		

LEFT EMBANKMENT	
87+25 to 88+10	Varies 4:1 to 2:1
88+10 to 88+37	2:1
89+19.50 to 90+50	2:1
90+50 to 91+40	Varies 2:1 to 4:1
LEFT SHOULDER BREAK	
87+86 to 88+10	Varies 5' to 0'
88+10 to 89+66.34	0'
89+66.34 to 90+25	Varies 0' to 5'

RIGHT EMBANKMENT	
84+35 to 84+55	2:1
86+00 to 87+50.60	Varies 4:1 to 2:1
87+50.60 to 88+60	2:1
RIGHT SHOULDER BREAK	
86+00 to 87+00	Varies 7' to 4'
87+00 to 87+50.60	4'
87+50.60 to 89+92	3'

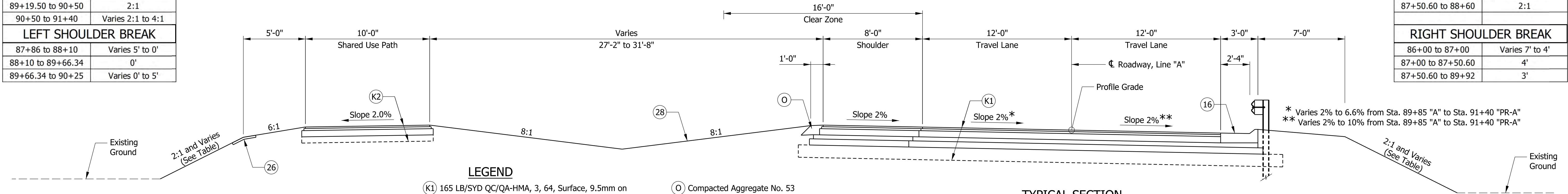


DATE	REVISION			RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		
								BRIDGE FILE
						TYPICAL CROSS SECTIONS		JOHNSON 602
							SCALE	DESIGNATION
							1/4" = 1'-0"	1801455
				DESIGNED: AJP	DRAWN: ESC		SURVEY BOOK	SHEETS
				CHECKED: JLR	CHECKED: AJP		3	of 82
							CONTRACT	PROJECT
							B-41320	1801455

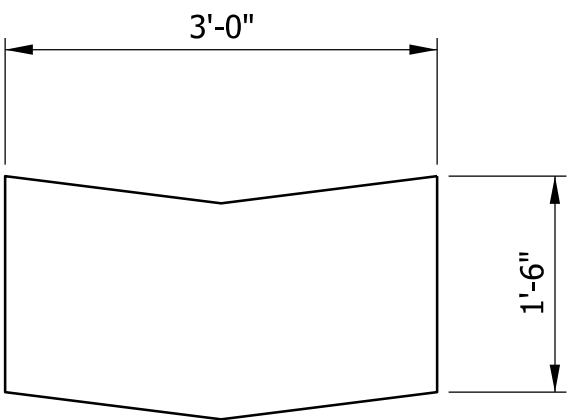


LEFT EMBANKMENT	
87+25 to 88+10	Varies 4:1 to 2:1
88+10 to 88+37	2:1
89+19.50 to 90+50	2:1
90+50 to 91+40	Varies 2:1 to 4:1
LEFT SHOULDER BREAK	
87+86 to 88+10	Varies 5' to 0'
88+10 to 89+66.34	0'
89+66.34 to 90+25	Varies 0' to 5'

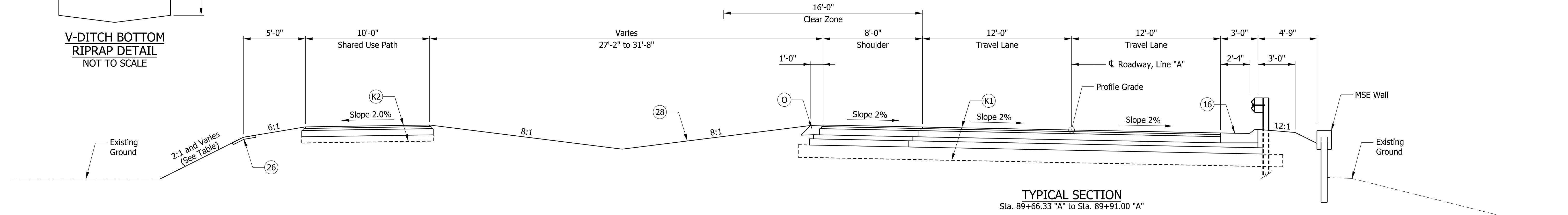
RIGHT EMBANKMENT	
84+35 to 84+55	2:1
86+00 to 87+50.60	Varies 4:1 to 2:1
87+50.60 to 88+60	2:1
RIGHT SHOULDER BREAK	
86+00 to 87+00	Varies 7' to 4'
87+00 to 87+50.60	4'
87+50.60 to 89+92	3'



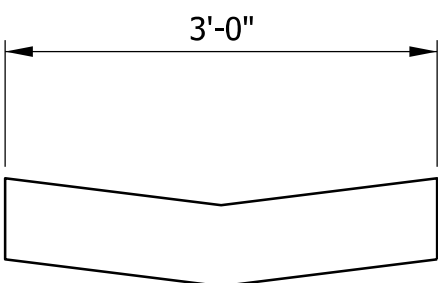
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Sta. 89+91.00 "A" to Sta. 91+40.00 "PR-A"



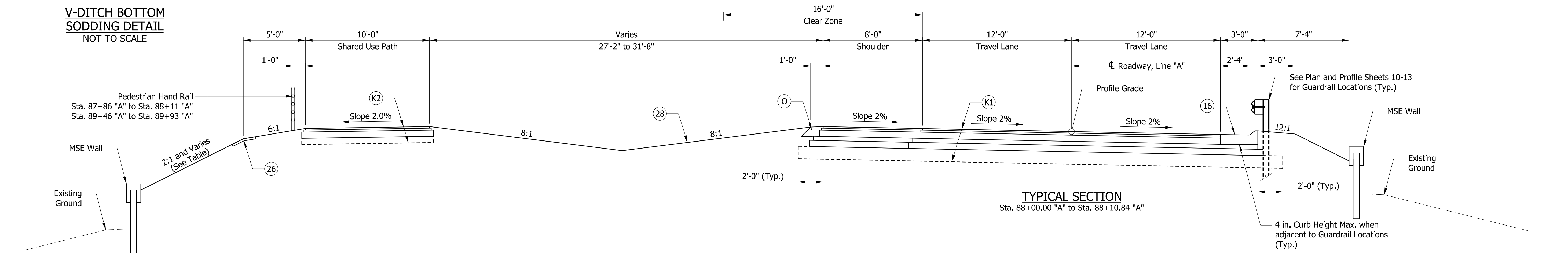
V-DITCH BOTTOM  
RIPRAP DETAIL  
NOT TO SCALE



TYPICAL SECTION  
Sta. 89+66.33 "A" to Sta. 89+91.00 "A"



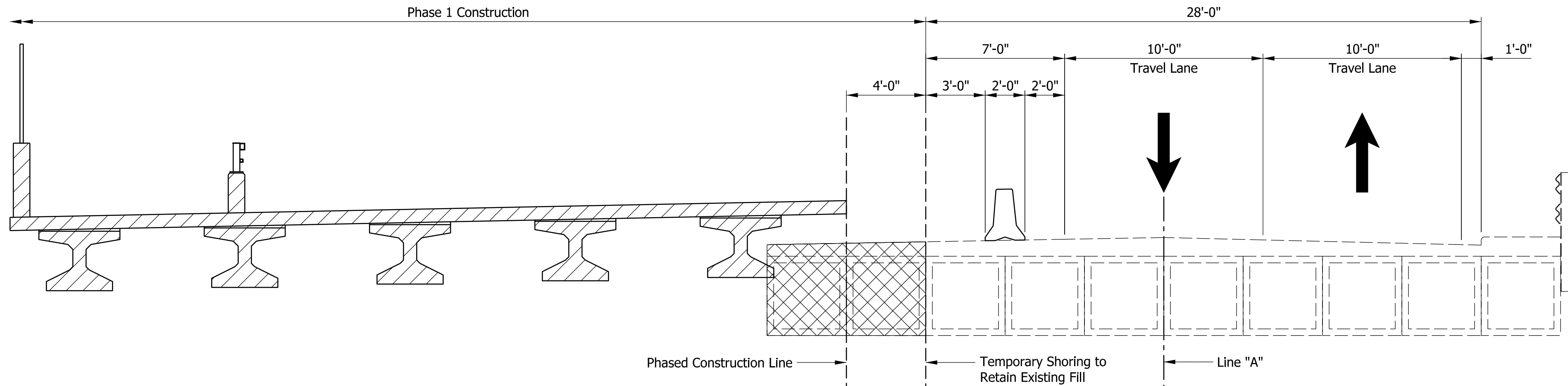
V-DITCH BOTTOM  
SODDING DETAIL  
NOT TO SCALE



TYPICAL SECTION  
Sta. 88+00.00 "A" to Sta. 88+10.84 "A"

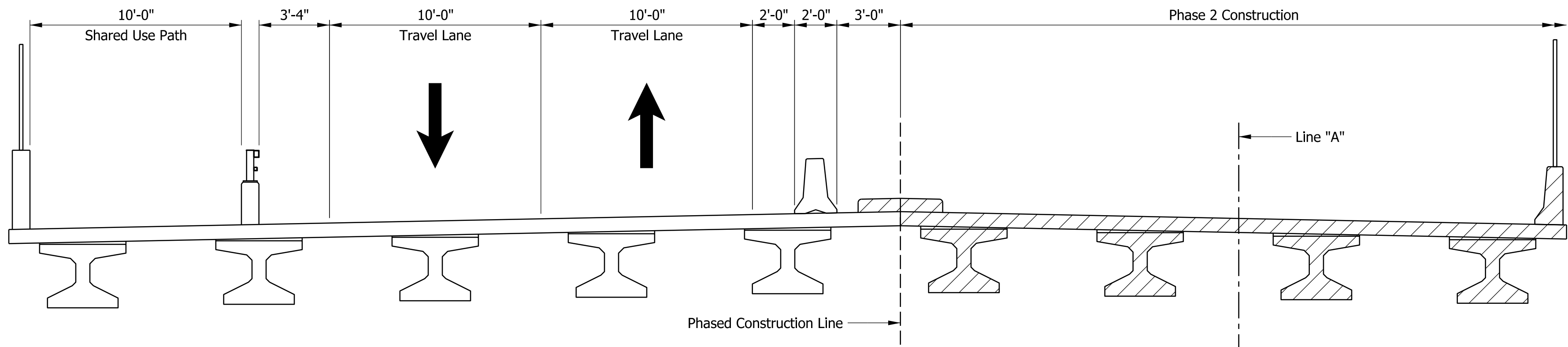
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									1/4" = 1'-0"	JOHNSON 602
										DESIGNATION
										1801455
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										1801455



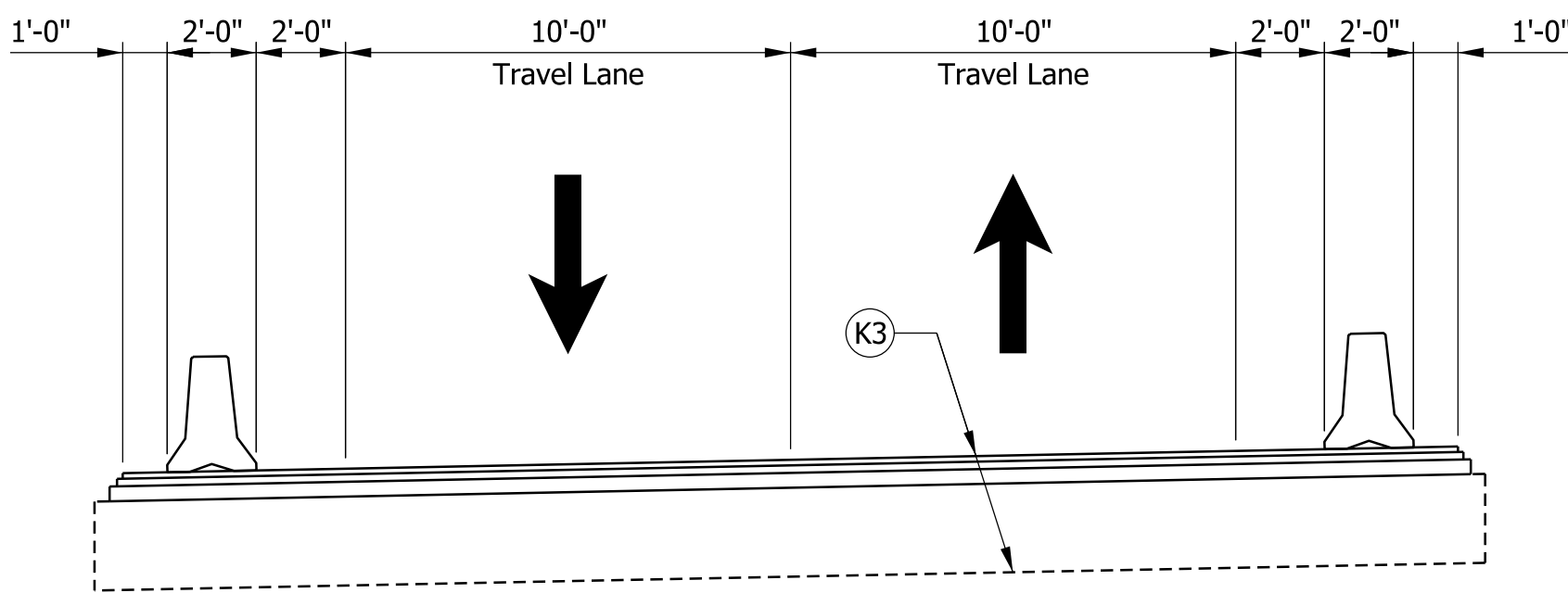


M.O.T. SECTION - PHASE 1  
Existing Bridge

- Hatched Area to be Constructed this Phase
- Structure Removal needed for Phased Construction



M.O.T. SECTION - PHASE 2  
Proposed Bridge WB



M.O.T. SECTION - PHASE 2  
Temporary Pavement

LEGEND

- (K3) 165 LB/SYD QC/QA-HMA, 3, 64, Surface, 9.5mm on 220 LB/SYD QC/QA-HMA, 3, 64, Intermediate, 12.5mm on 440 LB/SYD QC/QA-HMA, 3, 64, Base, 25.0mm on Subgrade Treatment Type I or Type III

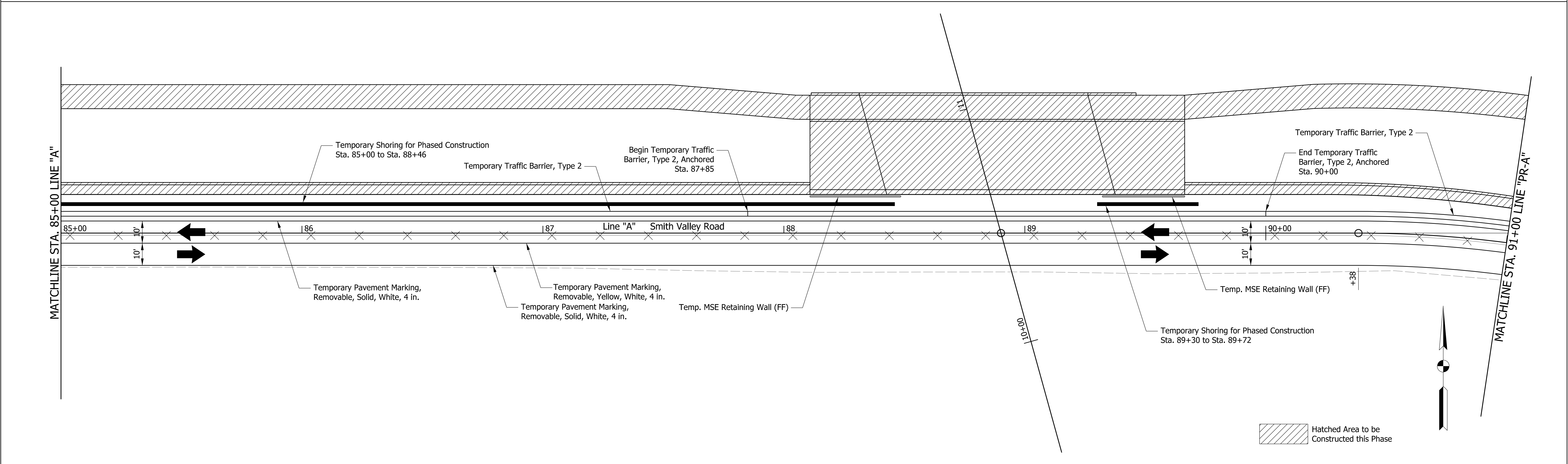
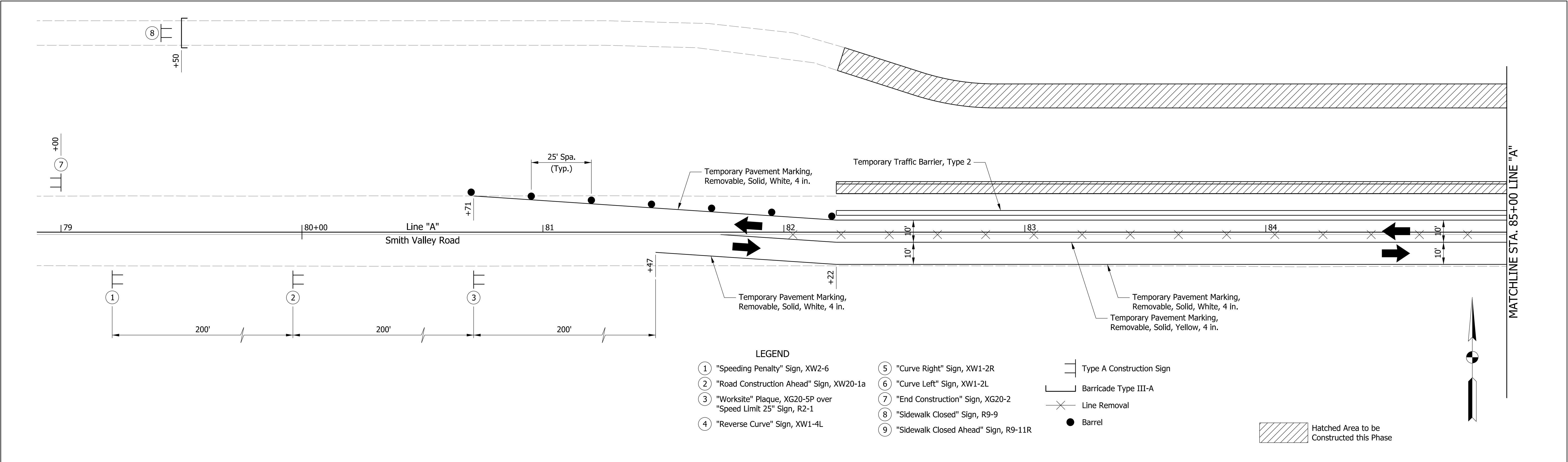
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								JOHNSON 602
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								1801455

DESIGNED: AJP	DRAWN: ESC
CHECKED: JLR	CHECKED: AJP

MAINTENANCE OF TRAFFIC CROSS SECTIONS
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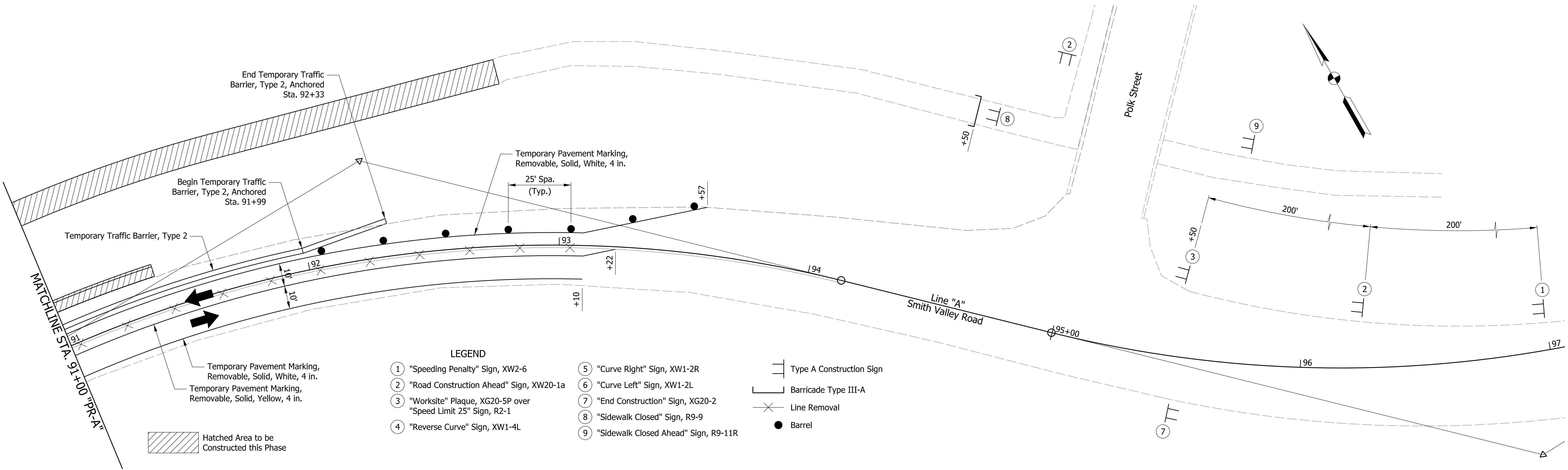
CONTRACT	B-41320
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		RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	BRIDGE FILE	
				JOHNSON 602	
				DESIGNATION	
				1801455	
	DESIGNED: AJP CHECKED: JLR	DRAWN: ESC CHECKED: AJP	MAINTENANCE OF TRAFFIC PHASE 1	SHEETS	
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				1801455	





1

SPEEDING  
MAX \$1000  
RECKLESS DRIVING  
MAX 6 YRS

XW2-6  
78x42

2

ROAD  
CONSTRUCTION  
AHEAD

XW20-1a  
36x36

3

WORKSITE

XG20-5P  
24x18

SPEED  
LIMIT  
25

R2-1(25)  
24x30

4

XW1-4L  
36x36

5

XW1-2R  
36x36

6

XW1-2L  
36x36

7

END  
CONSTRUCTION

XG20-2  
36x18

8

SIDEWALK  
CLOSED

R9-9  
24x12

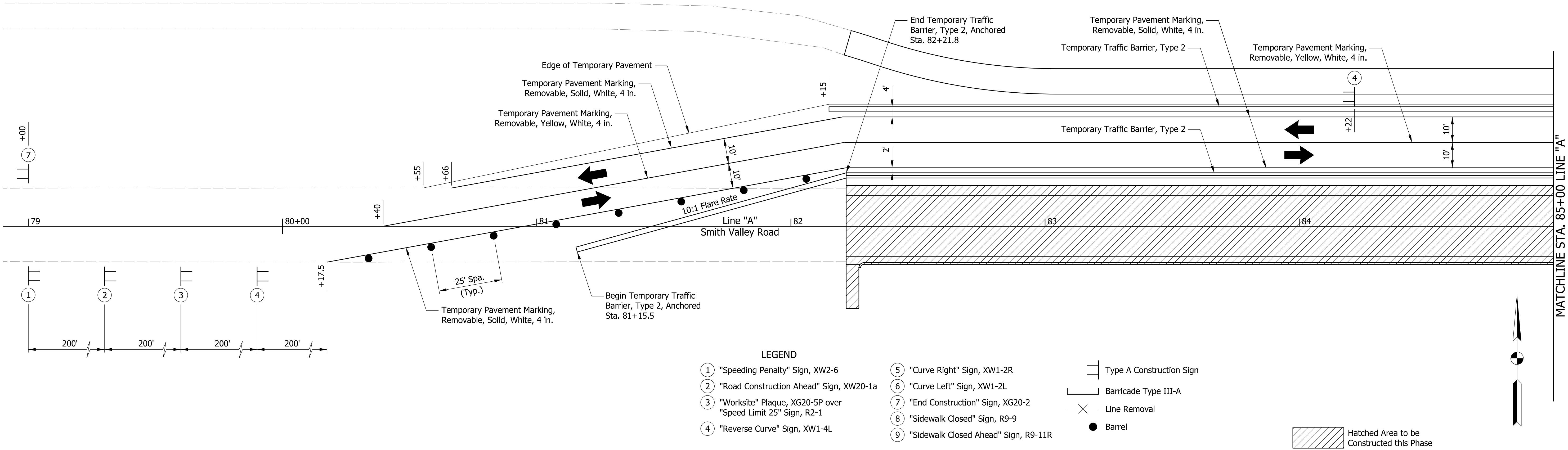
9

SIDEWALK CLOSED  
AHEAD

CROSS HERE

R9-11(R)  
24x18

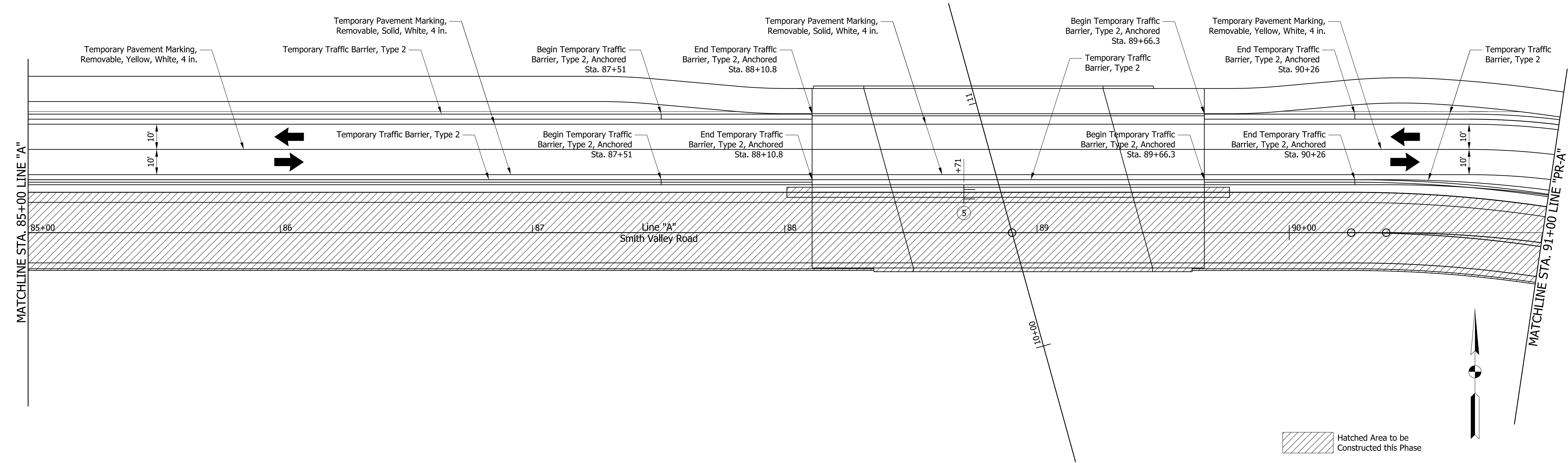




- LEGEND
- |   |  |
|---|--|
| ① "Speeding Penalty" Sign, XW2-6                              | ⑤ "Curve Right" Sign, XW1-2R           |
| ② "Road Construction Ahead" Sign, XW20-1a                     | ⑥ "Curve Left" Sign, XW1-2L            |
| ③ "Worksite" Plaque, XG20-5P over "Speed Limit 25" Sign, R2-1 | ⑦ "End Construction" Sign, XG20-2      |
| ④ "Reverse Curve" Sign, XW1-4L                                | ⑧ "Sidewalk Closed" Sign, R9-9         |
|   | ⑨ "Sidewalk Closed Ahead" Sign, R9-11R |

- |  |                          |
|--|--------------------------|
|  | Type A Construction Sign |
|  | Barricade Type III-A     |
|  | Line Removal             |
|  | Barrel                   |

Hatched Area to be Constructed this Phase



Hatched Area to be Constructed this Phase

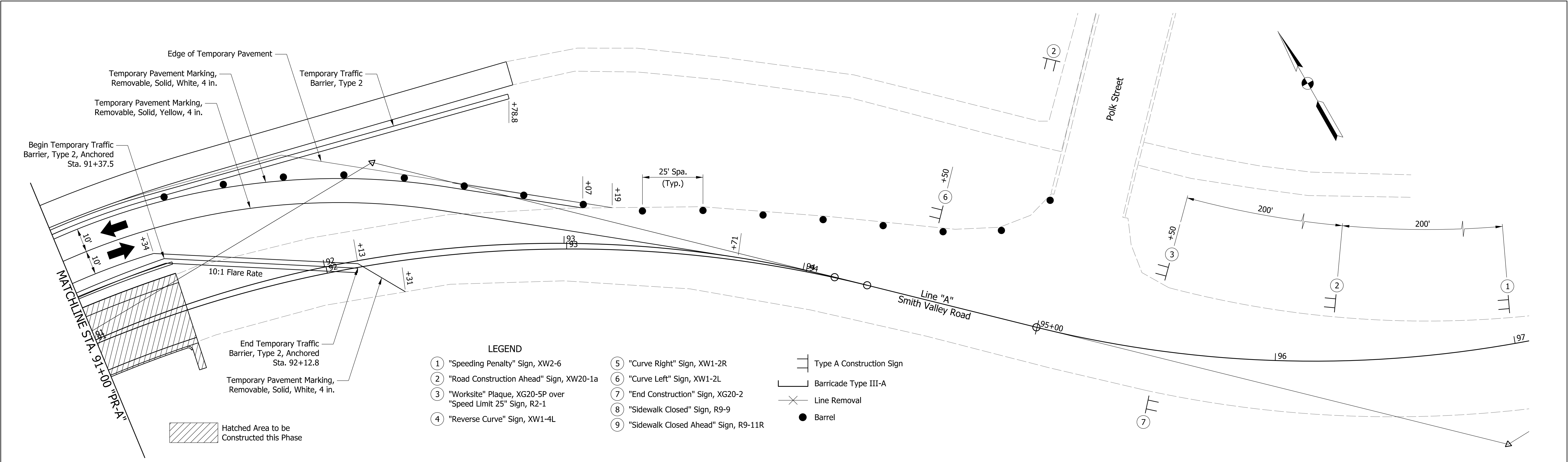
RECOMMENDED FOR APPROVAL _____		
DESIGN ENGINEER _____		DATE _____
DESIGNED: AJP _____	DRAWN: ESC _____	
CHECKED: JLR _____	CHECKED: AJP _____	

INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
PHASE 2

	BRIDGE FILE	
	JOHNSON 602	
SCALE	DESIGNATION	
1" = 20'	1801455	
SURVEY BOOK	SHEETS	
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1

SPEEDING  
MAX \$1000  
RECKLESS DRIVING  
MAX 6 YRS

XW2-6  
78x42

2

ROAD  
CONSTRUCTION  
AHEAD

XW20-1a  
36x36

3

WORKSITE

XG20-5P  
24x18

SPEED  
LIMIT  
25

R2-1(25)  
24x30

4

XW1-4L  
36x36

5

XW1-2R  
36x36

6

XW1-2L  
36x36

7

END  
CONSTRUCTION

XG20-2  
36x18

8

SIDEWALK  
CLOSED

R9-9  
24x12

9

SIDEWALK CLOSED  
AHEAD  
CROSS HERE

R9-11(R)  
24x18

1

SPEEDING  
MAX \$1000  
RECKLESS DRIVING  
MAX 6 YRS

XW2-6  
78x42

2

ROAD  
CONSTRUCTION  
AHEAD

XW20-1a  
36x36

3

WORKSITE

XG20-5P  
24x18

SPEED  
LIMIT  
25

R2-1(25)  
24x30

4

XW1-4L  
36x36

5

XW1-2R  
36x36

6

XW1-2L  
36x36

7

END  
CONSTRUCTION

XG20-2  
36x18

8

SIDEWALK  
CLOSED

R9-9  
24x12

9

SIDEWALK CLOSED  
AHEAD  
CROSS HERE

R9-11(R)  
24x18

SUMMARY OF QUANTITIES - MAINTENANCE OF TRAFFIC

ITEM	UNIT	QUANTITY	
		PHASE I	PHASE II
TEMPORARY PAVEMENT MARKING, 4" SOLID WHITE LINE, REMOVABLE	LFT	2447	2500
TEMPORARY PAVEMENT MARKING, 4" SOLID YELLOW LINE, REMOVABLE	LFT	1147	1354
LINE REMOVAL	LFT	2296	
CONSTRUCTION SIGN TYPE "A"	EACH	12	13
BARRICADE TYPE III-A	LFT	20	
TEMPORARY TRAFFIC BARRIER, TYPE 2	LFT	765	1616
TEMPORARY TRAFFIC BARRIER, TYPE 2, ANCHORED	LFT	250	430

RECOMMENDED  
FOR APPROVAL

DESIGN ENGINEER

DATE

DESIGNED: AJP

DRAWN: ESC

CHECKED: JLR

CHECKED: AJP

INDIANA  
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC  
PHASE 2

BRIDGE FILE  
JOHNSON 602  
DESIGNATION  
1801455

SURVEY BOOK

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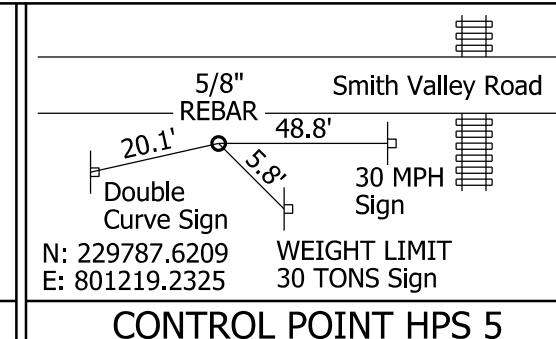
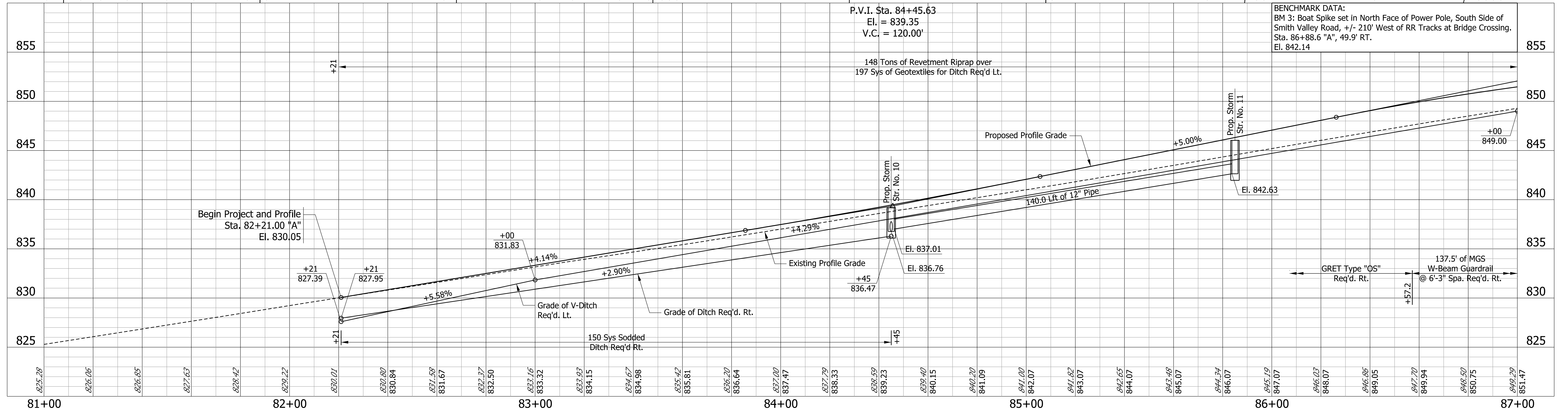
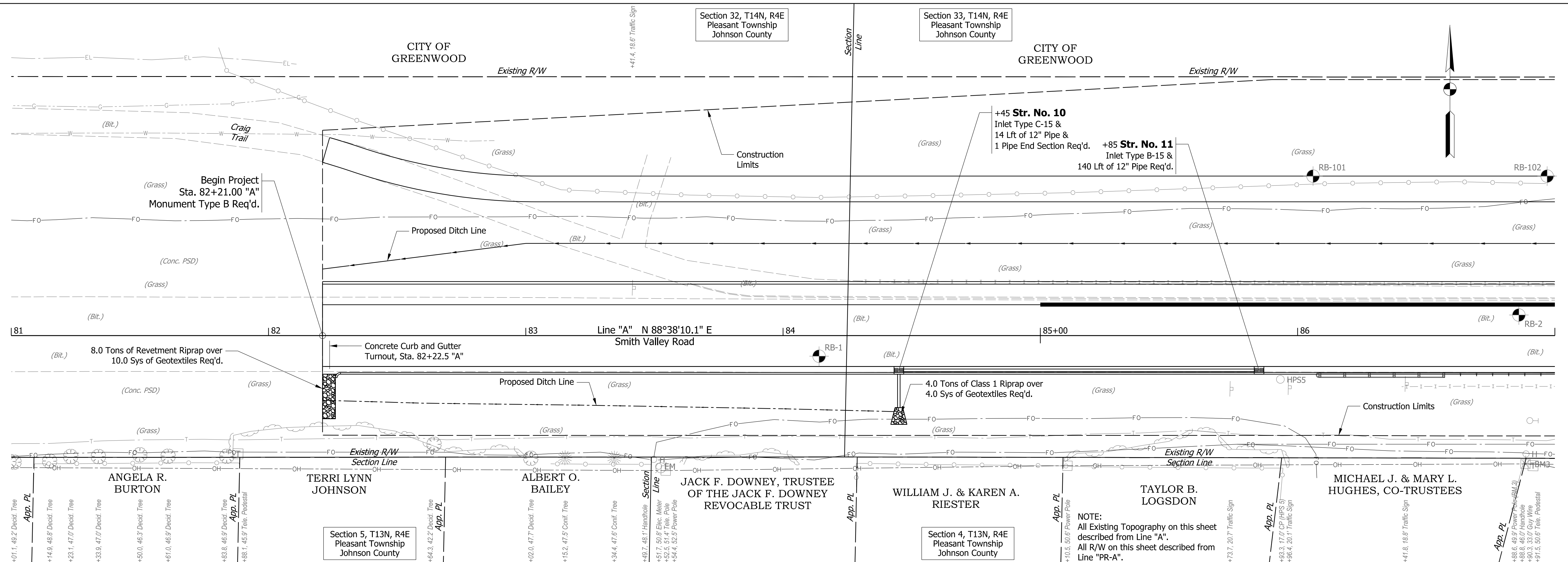
CONTRACT  
B-41320

SHEETS  
PROJECT  
1801455

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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: <u>AJP</u>	DRAWN: <u>ESC</u>	
CHECKED: <u>JLR</u>	CHECKED: <u>AJP</u>	

INDIANA  
DEPARTMENT OF TRANSPORTATION

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PLAN AND PROFILE  
STA. 81+00 "A" TO STA. 87+00 "B"

		BRIDGE FILE	
		JOHNSON 602	
	SCALE	DESIGNATION	
	1" = 20' H    1" = 5' V	1801455	
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CURVE DATA  
P.I. Sta. = 92+36.23 "A"  
Delta = 45°00'00" RT  
D = 12°00'00.4"  
R = 477.4600'  
T = 197.7704'  
L = 374.9962'  
E = 39.3390'

CURVE DATA  
P.I. Sta. = 92+36.23 "PR-A"  
Delta = 45°00'00" RT  
D = 11°12'44.9"  
R = 511.0000'  
T = 211.6631'  
L = 401.3385'  
E = 42.1024'

Section 33, T14N, R4E  
Pleasant Township  
Johnson County

P.I. Sta. 92+36.23 "A"  
P.I. Sta. 92+36.23 "PR-A"  
Monument Type C Req'd.

Construction Limits

Craig Trail

Section Line

P.T. Sta. 94+25.91 "PR-A"  
= P.O.T. Sta. 94+27.35 "A"  
Monument Type B Req'd.

P.T. Sta. 94+13.46 "A"

Line "A" S 46°21'49.9" E  
Smith Valley Road

P.C. Sta. 94+99.74 "A"

End Incidental  
Construction  
Sta. 93+20.00 "PR-A"

MARION E. JR. & CONNIE  
RANSCHAERT

PETER C. &  
DIANE L.  
NEWETT

Section 4, T13N, R4E  
Pleasant Township  
Johnson County

SCOTT A.  
SAUTER

MARY F.  
FARRAND

GERALD W. &  
TERRI L.  
SMITH

NOTE:  
All Existing Topography on this sheet  
described from Line "A".  
All R/W on this sheet described from  
Line "PR-A".

BENCHMARK DATA:  
BM 1: Boat Spike found in NE Face of Light Pole, SW  
Side of Smith Valley Road at Polk Street Intersection.  
Sta. 95+08.0 "A", 33.3' RT.  
El. 835.58  
BM 2: Boat Spike set in NE Face of Light Pole, South Side of  
Smith Valley Road, +/- 350' East of RR Tracks at Bridge Crossing.  
Sta. 92+69.9 "A", 26.4' RT.  
El. 839.01

850

845

840

835

830

825

820

850

845

840

835

830

825

820

92+00

93+00

94+00

95+00

96+00

RECOMMENDED  
FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: AJP

DRAWN: ESC

CHECKED: JLR

CHECKED: AJP

INDIANA  
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE  
STA. 92+00 "PR-A" TO STA. 97+00 "A"

BRIDGE FILE

JOHNSON 602

DESIGNATION

1801455

SURVEY BOOK

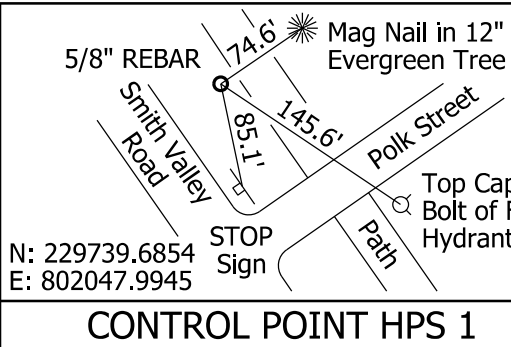
SHEETS

13 of 82

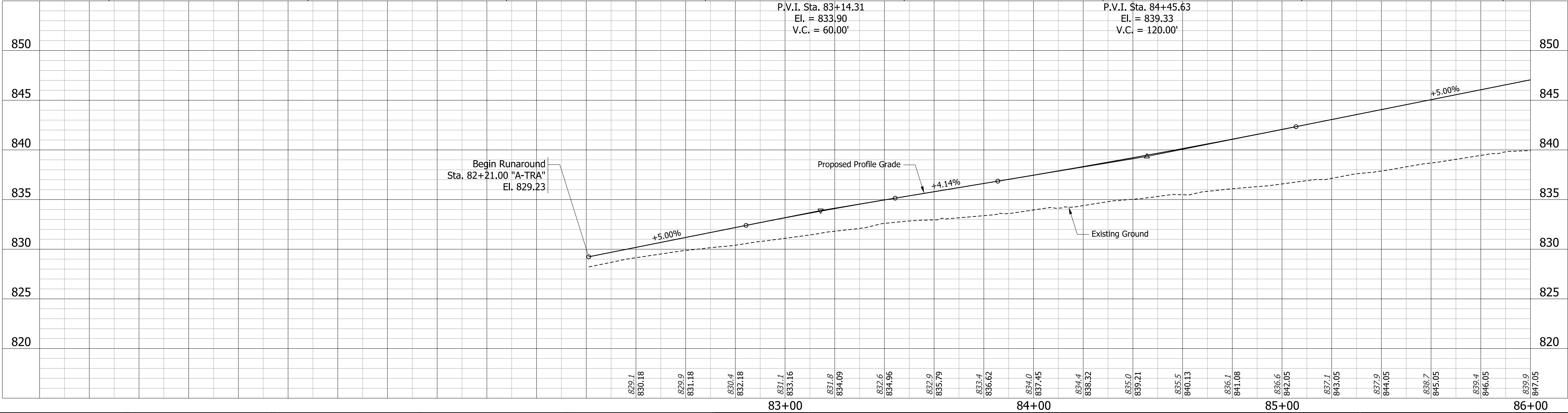
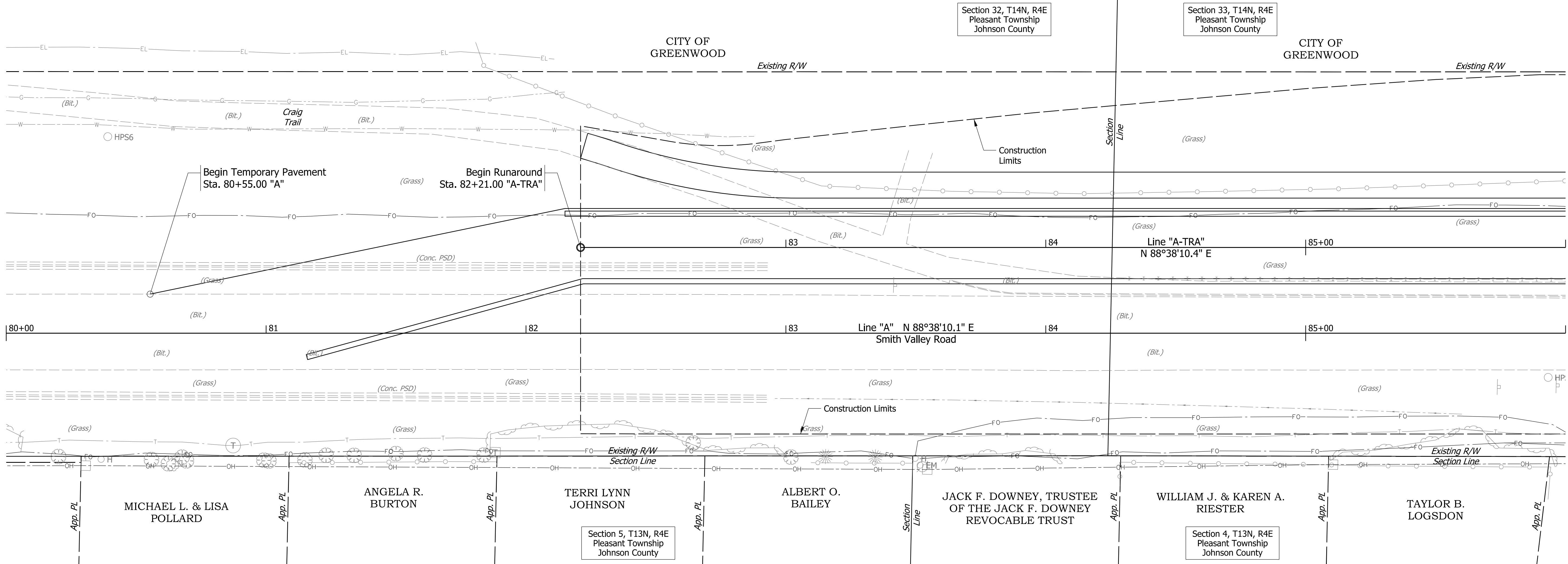
CONTRACT

PROJECT

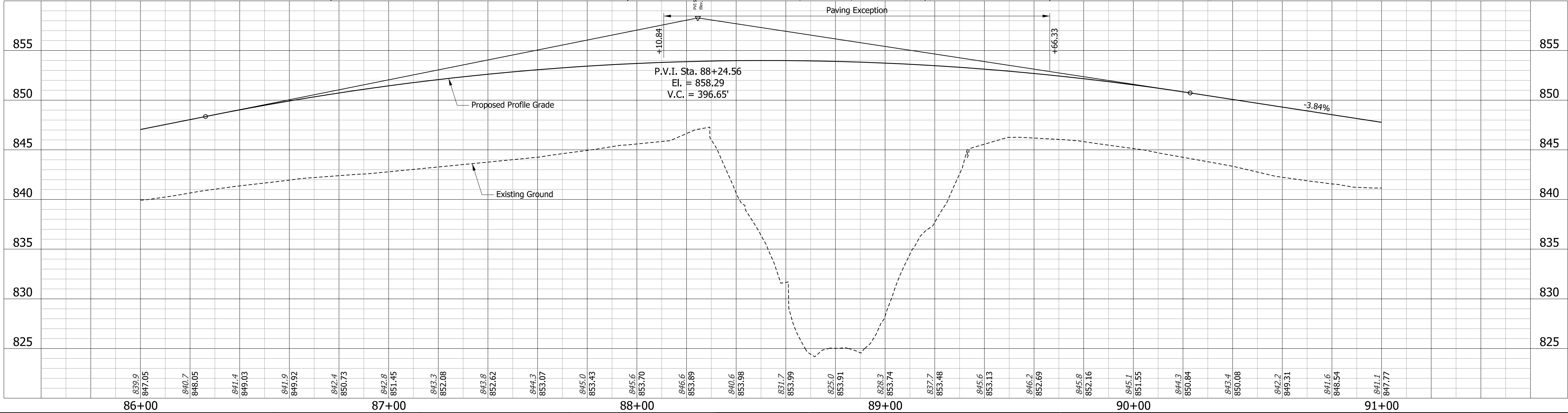
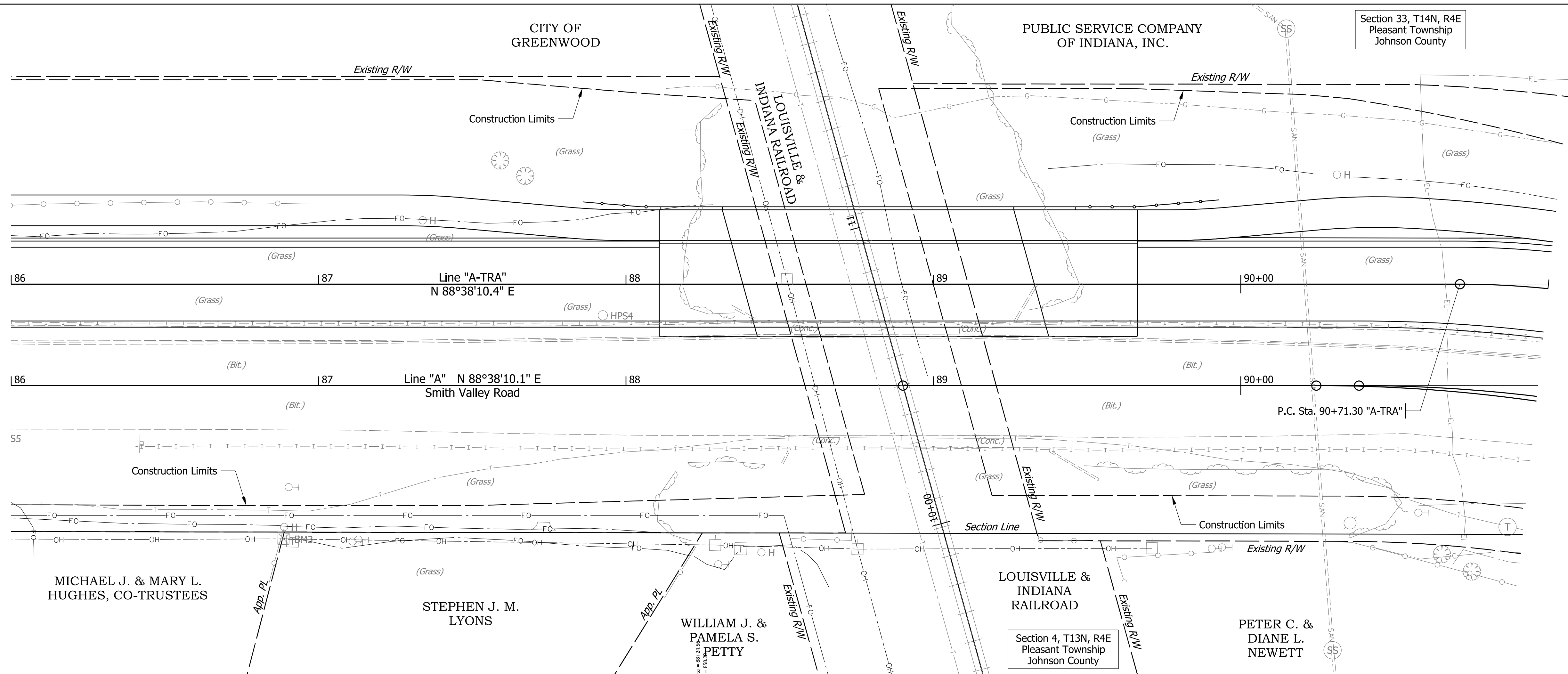
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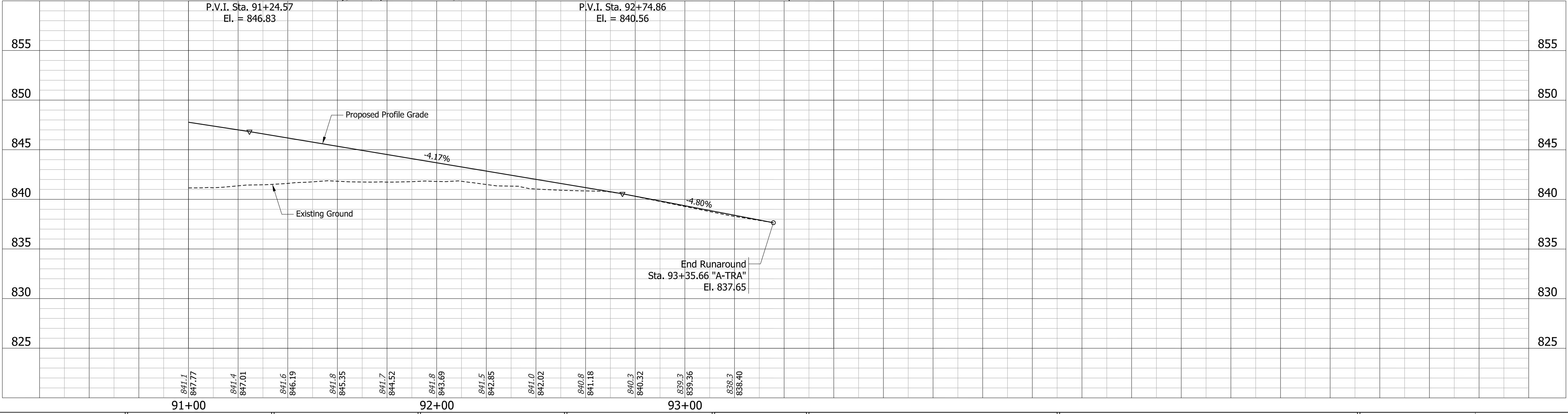
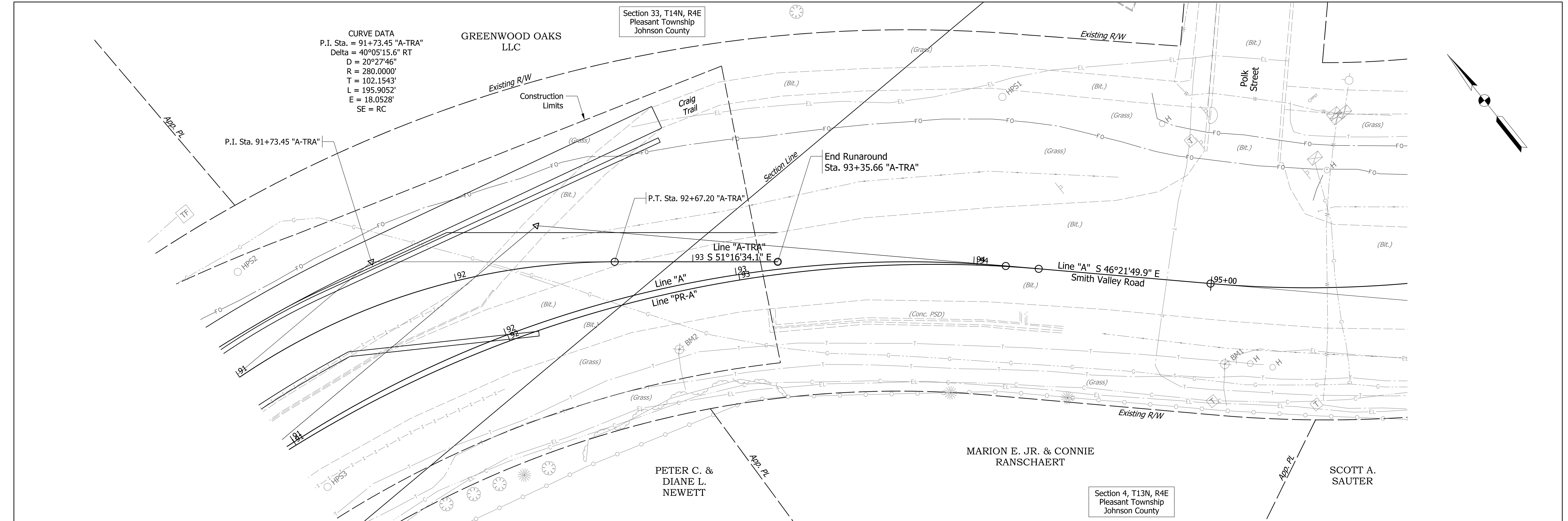




					RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE JOHNSON 602	
					DESIGNED: AJP		DRAWN: ESC		DESIGNATION 1801455	
					CHECKED: JLR		CHECKED: AJP		SHEETS 14 of 82	
							PLAN AND PROFILE STA. 82+21 TO STA. 86+00 "A-TRA"		PROJECT 1801455	
									CONTRACT B-41320	
									SCALE 1" = 20' H 1" = 5' V	
									SURVEY BOOK	
									BRIDGE FILE JOHNSON 602	



					RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE
					DESIGNED: AJP		DRAWN: ESC			PLAN AND PROFILE		JOHNSON 602
					CHECKED: JLR		CHECKED: AJP			STA. 86+00 TO STA. 91+00 "A-TRA"		DESIGNATION
												1801455
												SHEETS
												15 of 82
												PROJECT
												1801455

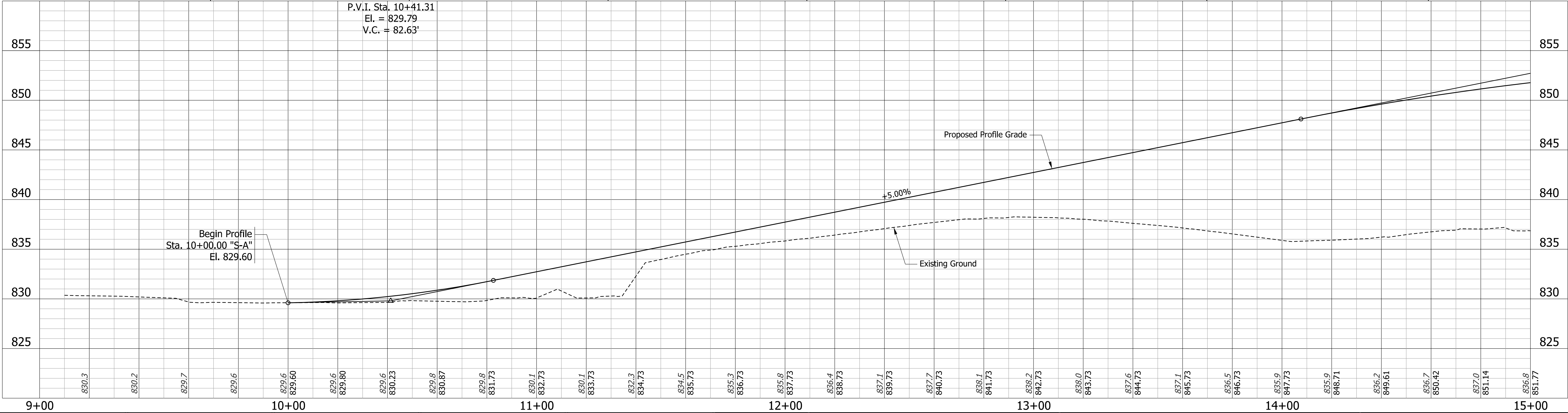
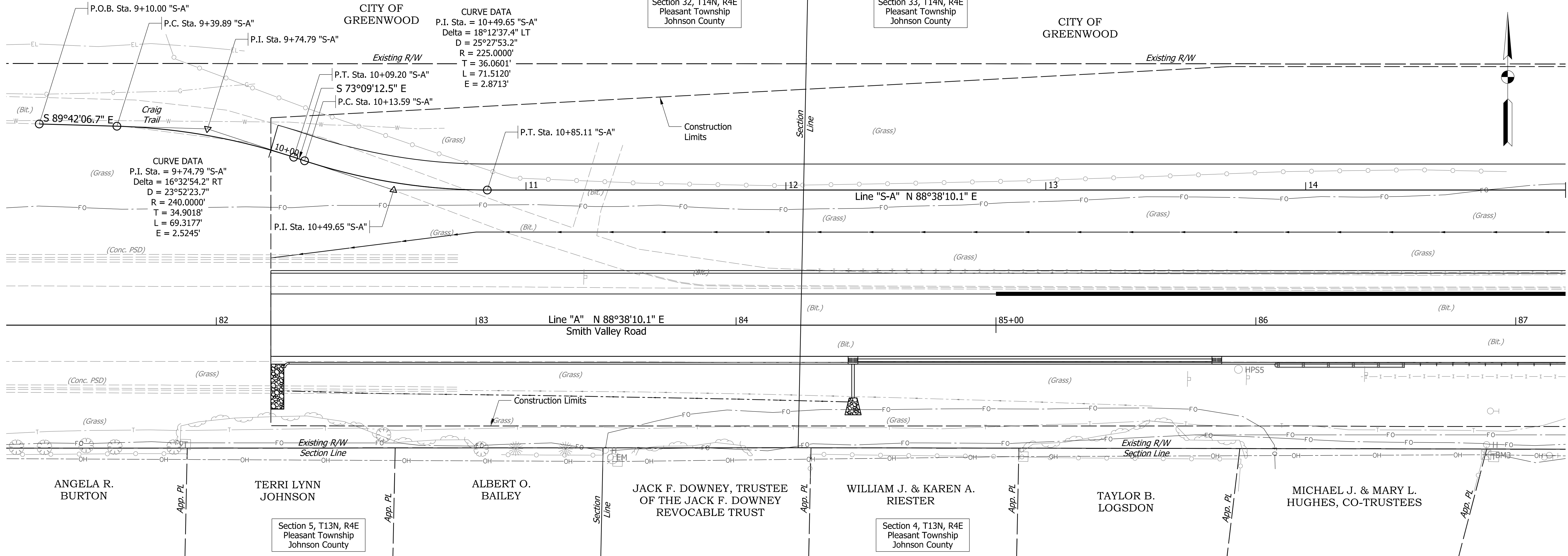


					RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE	
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												1801455	
												SHEETS	
												16 of 82	
												PROJECT	
												1801455	

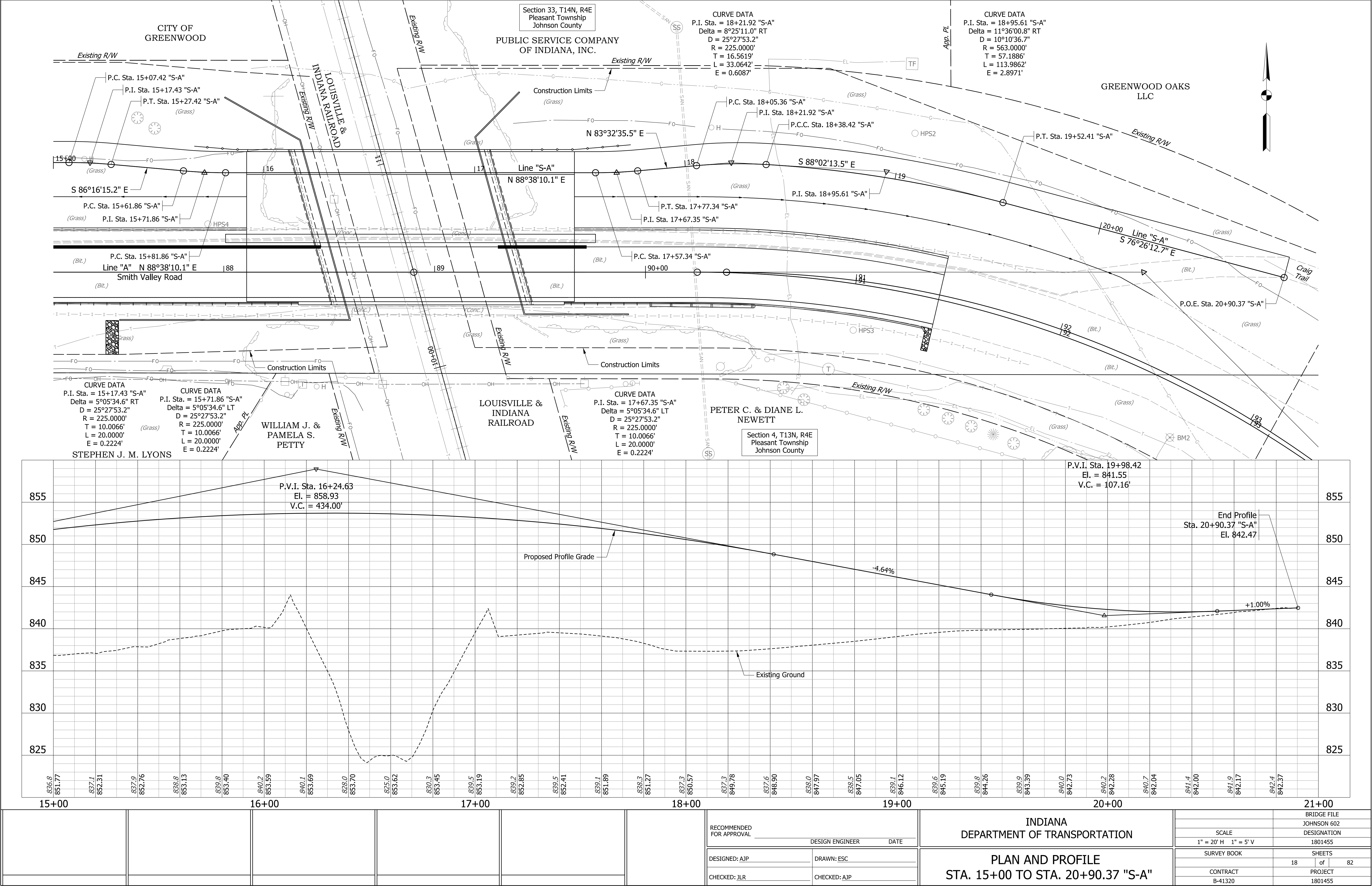
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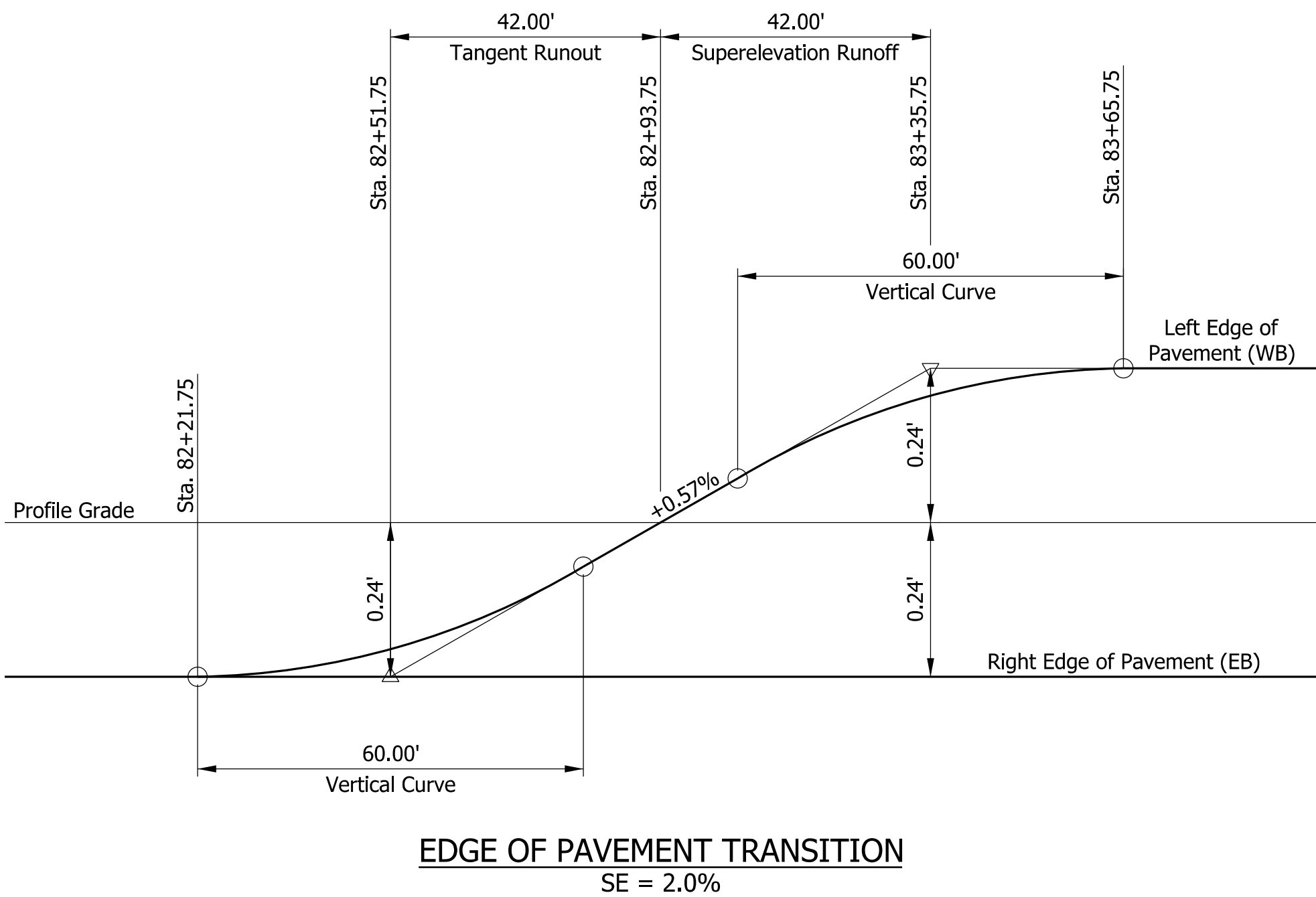
PLAN AND PROFILE	
STA. 91+00 TO STA. 93+35.66 "A-TRA"	





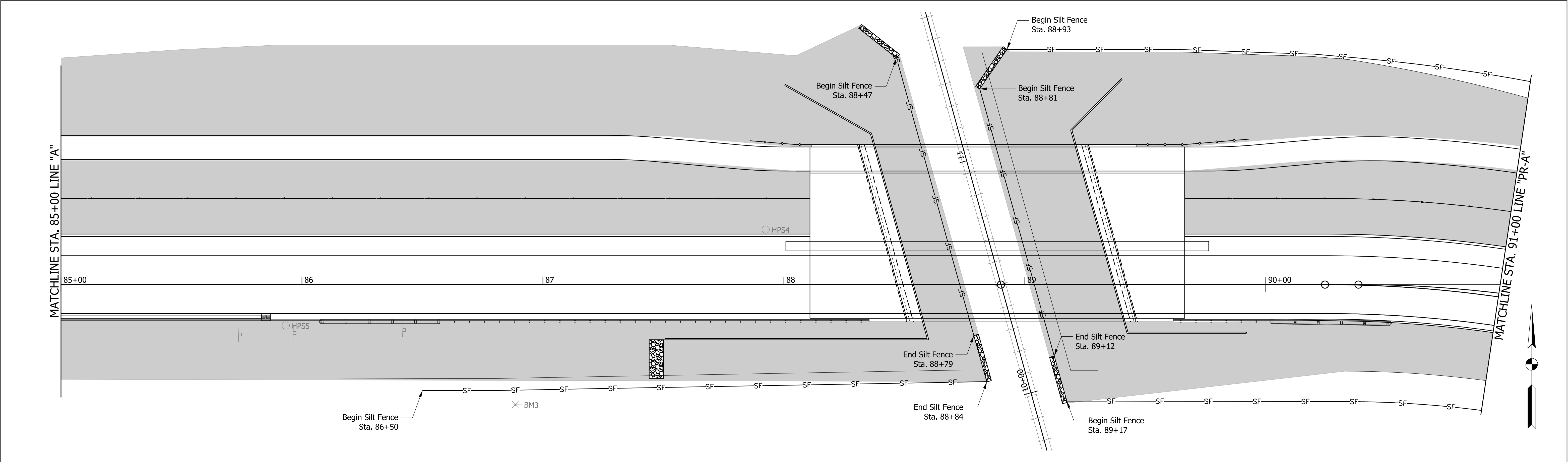
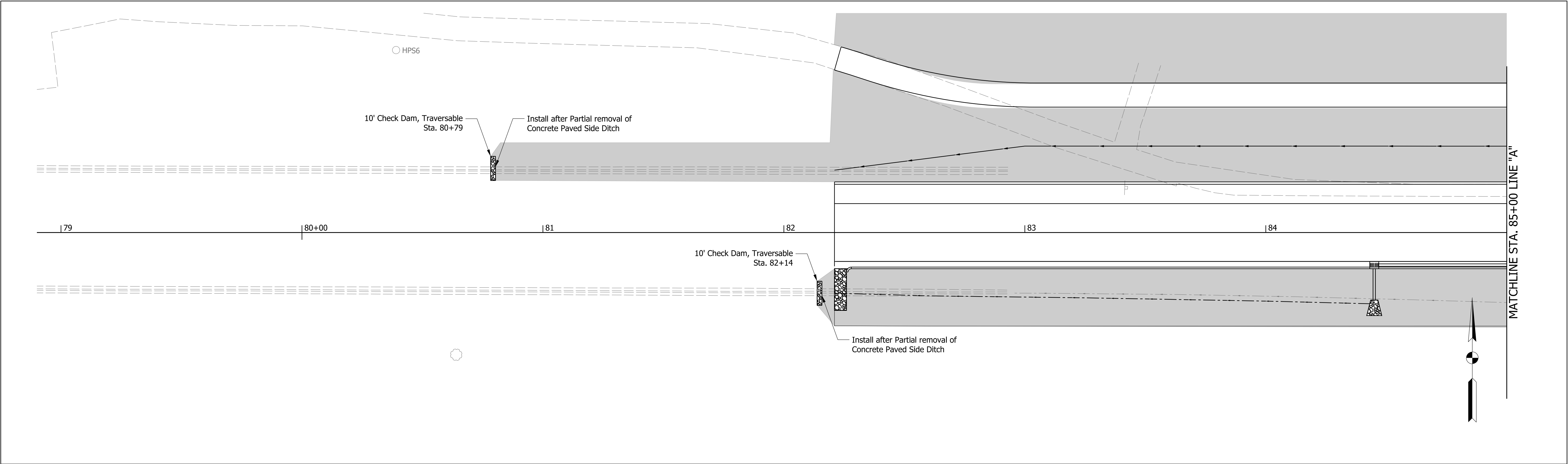
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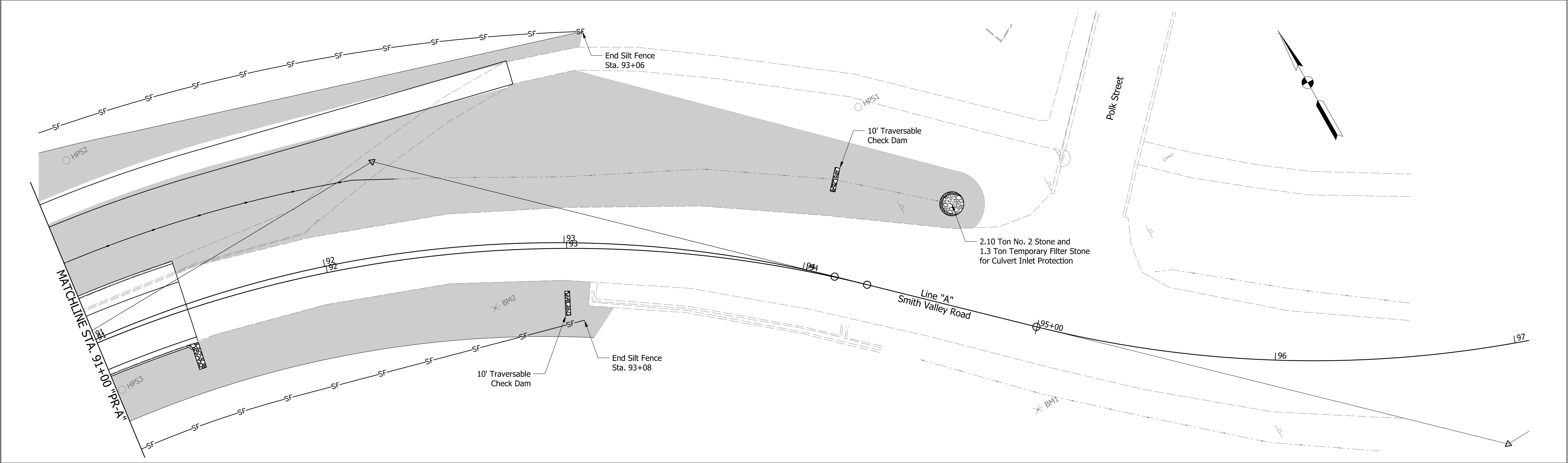


		RECOMMENDED FOR APPROVAL _____		INDIANA DEPARTMENT OF TRANSPORTATION	BRIDGE FILE		
		DESIGN ENGINEER _____			JOHNSON 602		
		DATE _____			DESIGNATION		
					1801455		
		DESIGNED: <u>AJP</u>		SUPERELEVATION DIAGRAM	SURVEY BOOK		
		DRAWN: <u>ESC</u>			SHEETS		
		CHECKED: <u>RJZ</u>			19 of 82		
		CHECKED: <u>AJP</u>			PROJECT		
				B-41320		1801455	

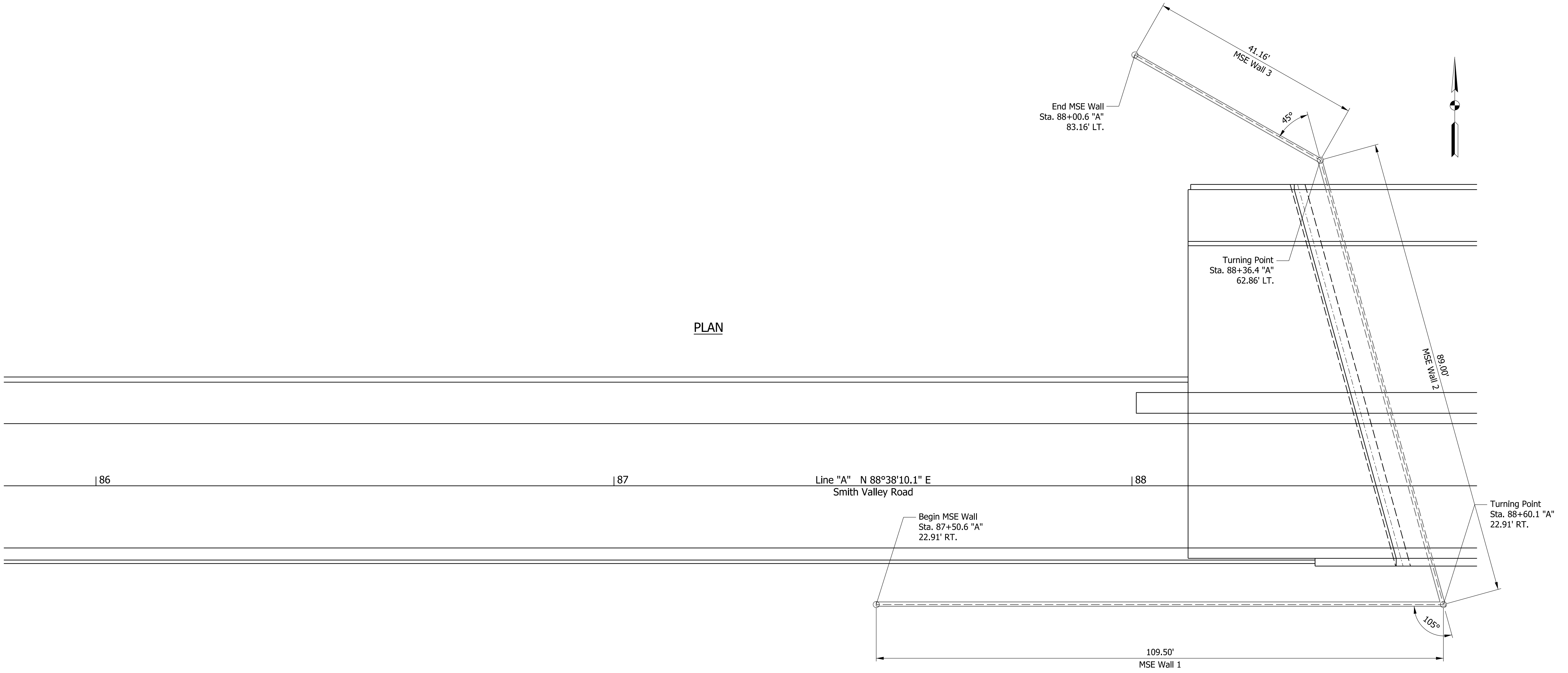




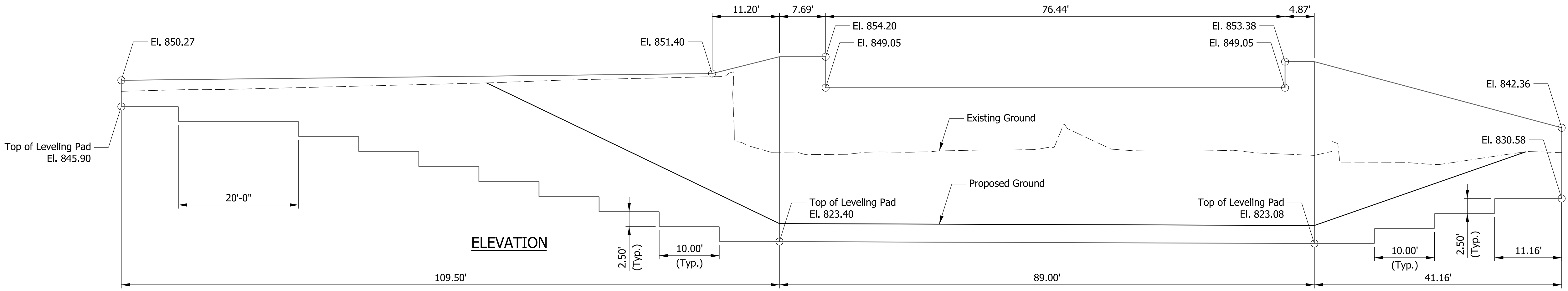
<div><div><div>SF</div><div>Perimeter Protection (Silt Fence)</div></div><div><div><div></div><div>Temporary Check Dam (Revetment Riprap)</div></div><div><div></div><div>Temporary Seeding</div></div></div></div>			<div>RECOMMENDED FOR APPROVAL</div> <div>DESIGNED: AJP</div> <div>CHECKED: JLR</div>		<div>DESIGN ENGINEER</div> <div>DRAWN: AJP</div> <div>CHECKED: AJP</div>	<div>INDIANA DEPARTMENT OF TRANSPORTATION</div> <div>EROSION CONTROL DETAILS</div>		<div>BRIDGE FILE</div> <div>JOHNSON 602</div> <div>DESIGNATION</div> <div>1801455</div> <div>SHEETS</div> <div>20 of 82</div> <div>PROJECT</div> <div>1801455</div>
								<div>SCALE</div> <div>1" = 20'</div> <div>SURVEY BOOK</div> <div>CONTRACT</div> <div>B-41320</div>



<div><div>SF</div><div>Perimeter Protection (Silt Fence)</div></div> <div><div></div><div>Temporary Check Dam (Revetment Riprap)</div></div> <div><div></div><div>Temporary Seeding</div></div>			<div>RECOMMENDED FOR APPROVAL</div> <div>DESIGN ENGINEER</div> <div>DATE</div>		INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE JOHNSON 602
			DESIGNED: AJP		DRAWN: AJP		DESIGNATION 1801455
			CHECKED: JLR		CHECKED: AJP		SHEETS 21 of 82
					EROSION CONTROL DETAILS		PROJECT 1801455
							SURVEY BOOK B-41320



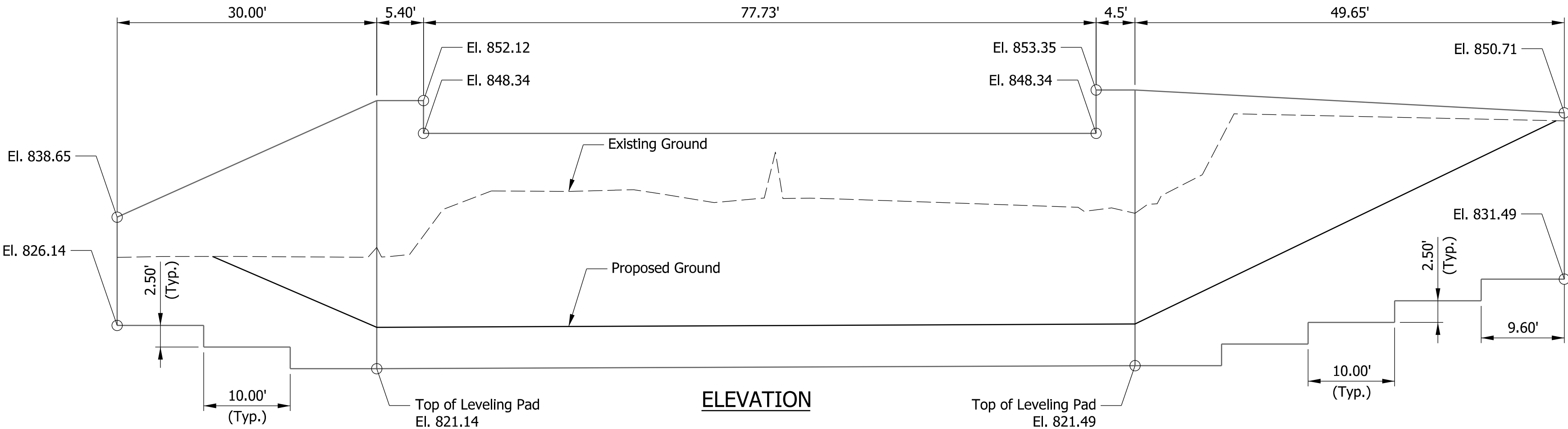
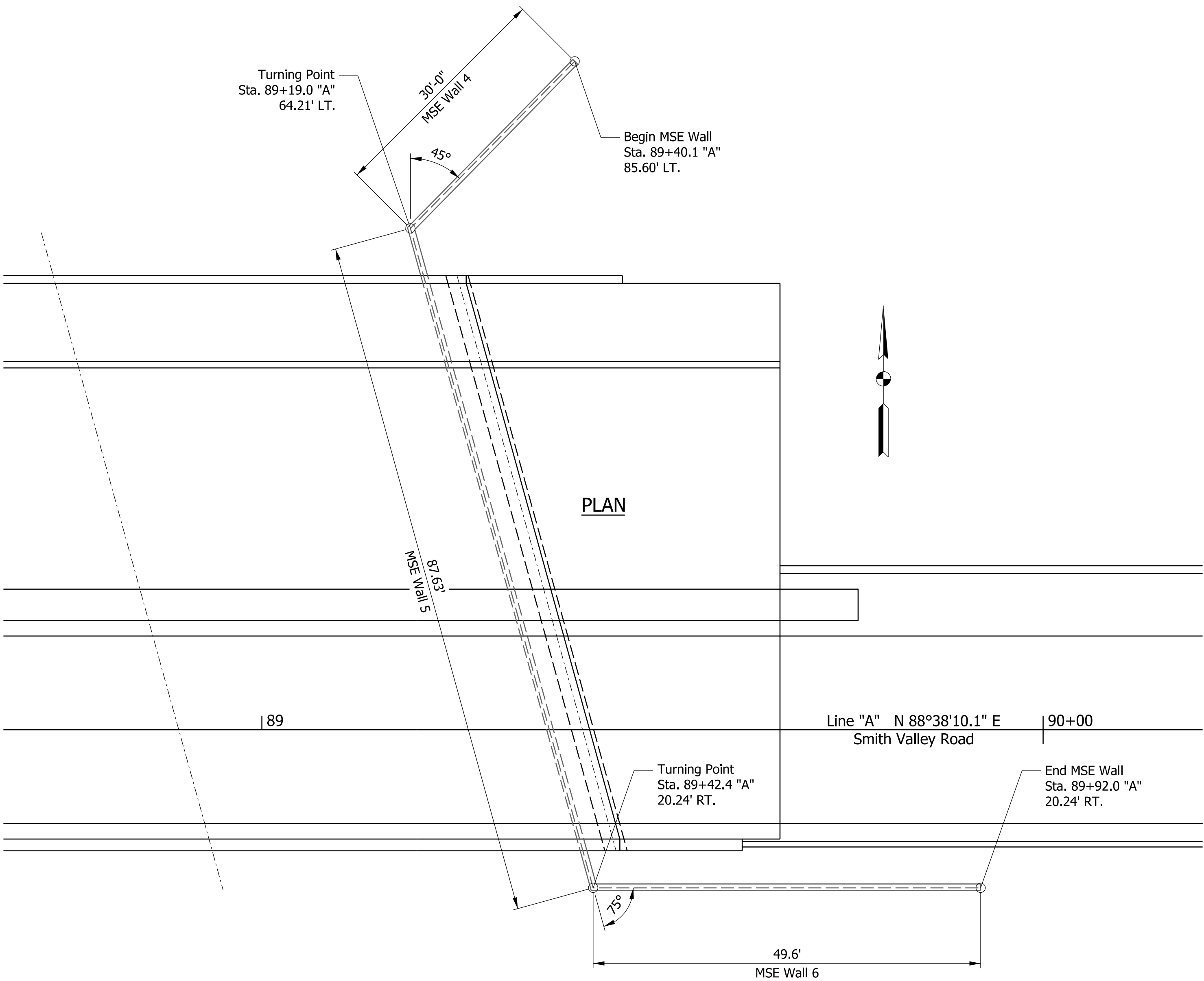
PLAN



ELEVATION

DATE	REVISION			RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		SCALE	BRIDGE FILE
									1" = 10'	JOHNSON 602
										DESIGNATION
										1801455
										SHEETS
										22 of 82
										PROJECT
										1801455





DATE	REVISION



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: ESC		
CHECKED: RJZ	CHECKED: AJP		

INDIANA DEPARTMENT OF TRANSPORTATION	
MSE WALL DETAILS	

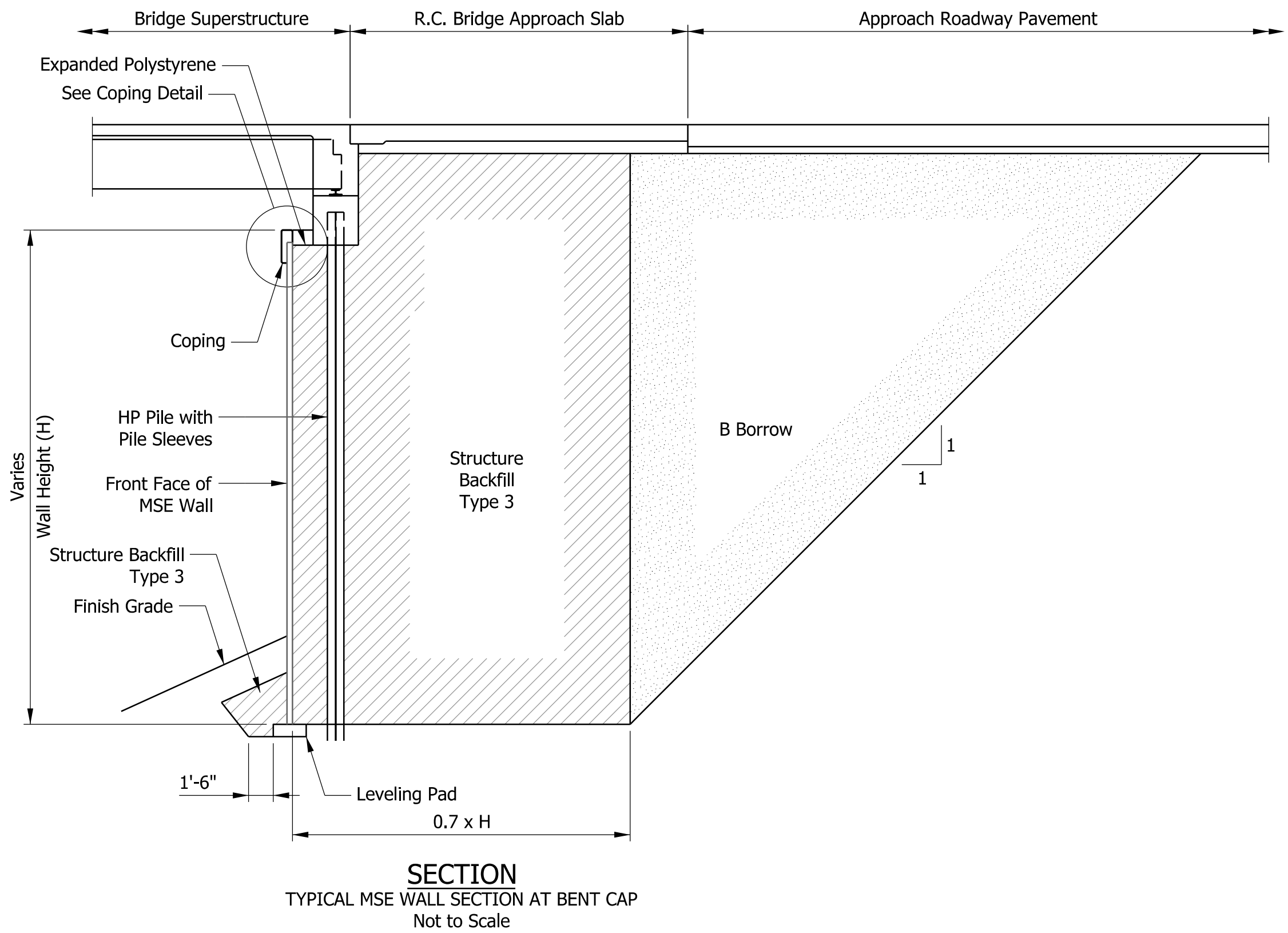
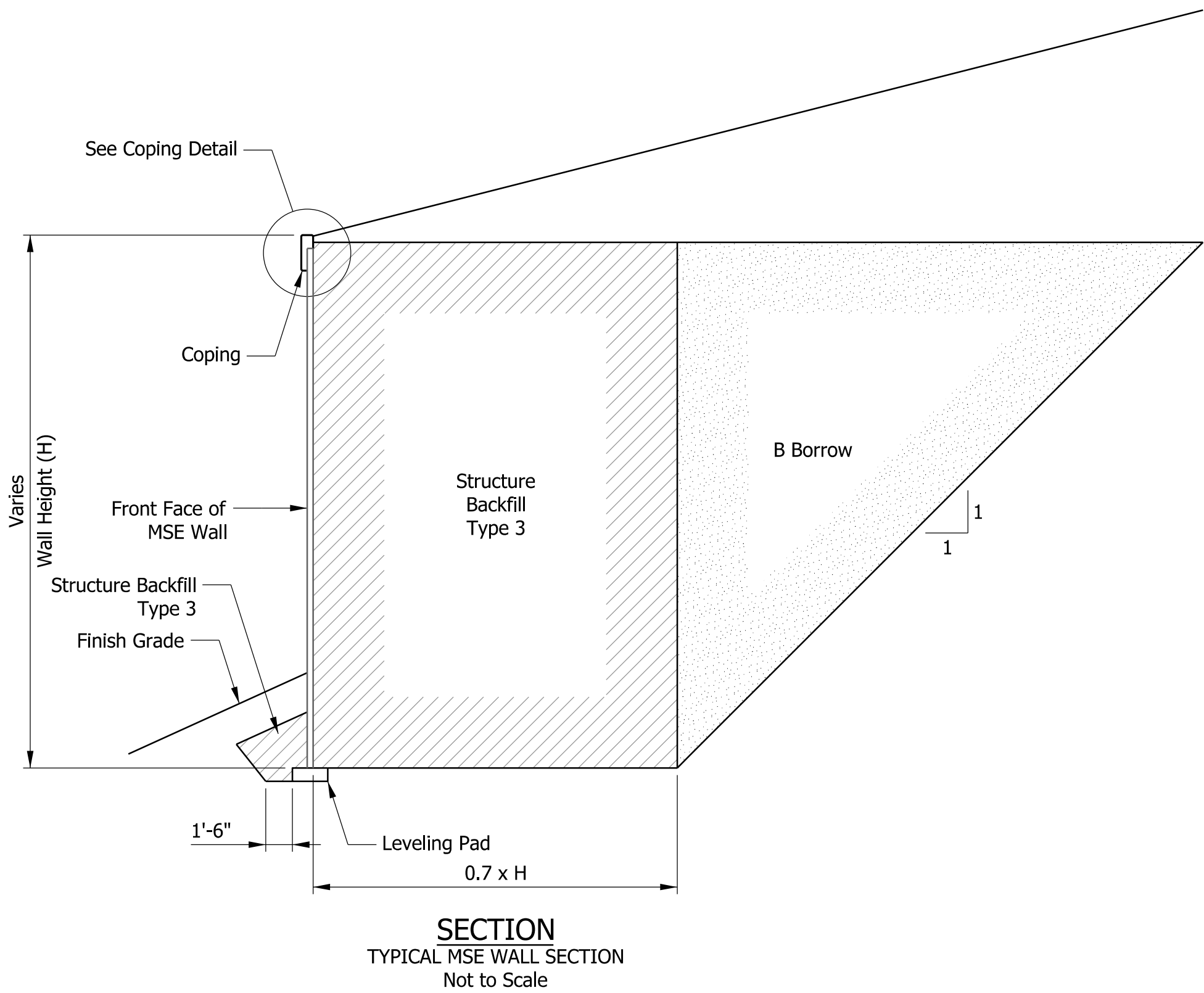
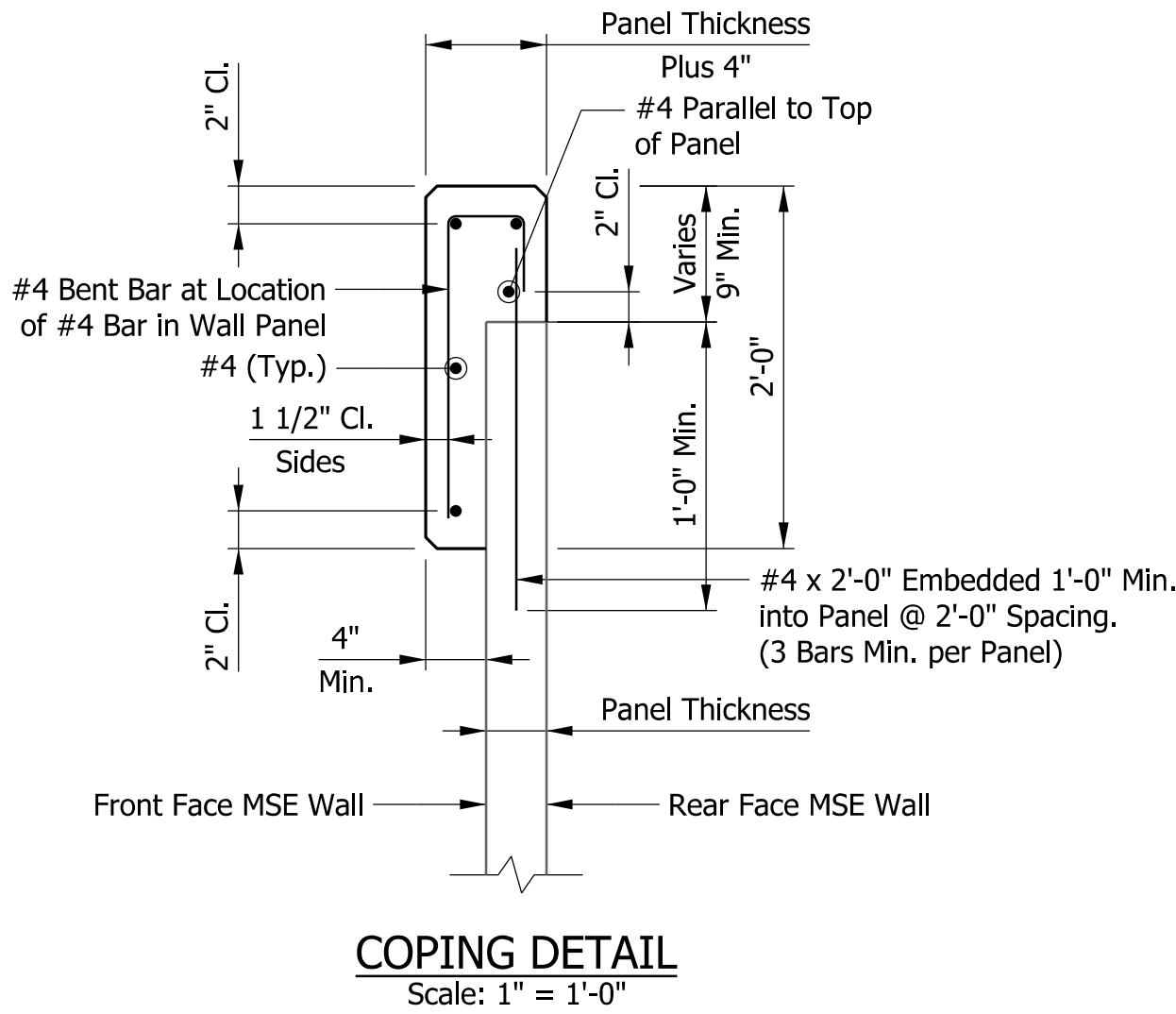
BRIDGE FILE	JOHNSON 602
SCALE	DESIGNATION
1" = 10'	1801455
SURVEY BOOK	SHEETS
CONTRACT	23 of 82
B-41320	PROJECT
	1801455

BILL OF MATERIAL  
MSE WALLS  
BENT NO. 1

CONCRETE FACE PANELS	4455 SFT
WALL ERECTION	4455 SFT
LEVELING PAD (HORIZONTAL)	239.7 LFT
STRUCTURE BACKFILL TYPE 3	2960.7 CYS
B BORROW	2046.5 CYS

BILL OF MATERIAL  
MSE WALLS  
BENT NO. 2

CONCRETE FACE PANELS	3422 SFT
WALL ERECTION	3422 SFT
LEVELING PAD (HORIZONTAL)	167.2 LFT
STRUCTURE BACKFILL TYPE 3	3120.7 CYS
B BORROW	2071.2 CYS



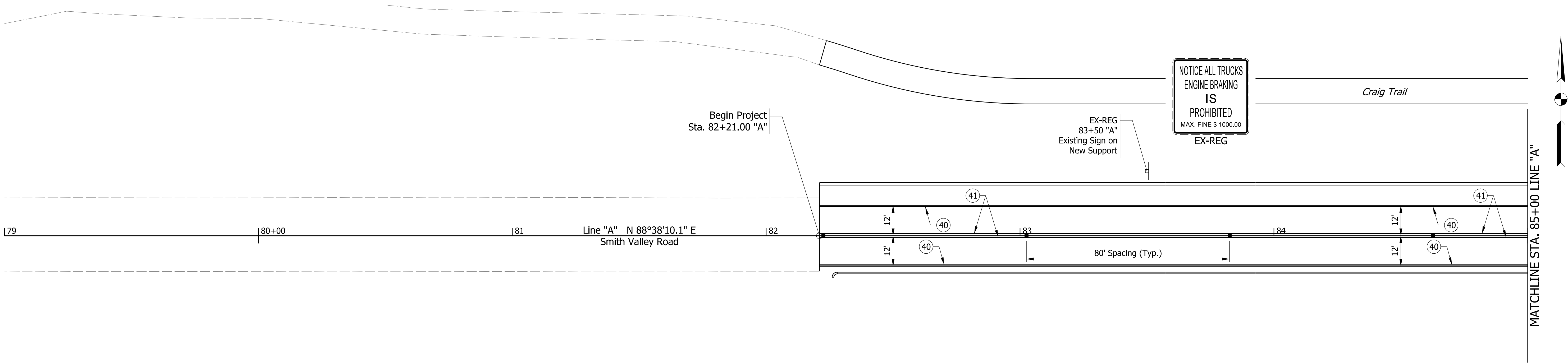
DATE	REVISION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: RJZ	DRAWN: ESC	
CHECKED: HNG	CHECKED: RJZ	

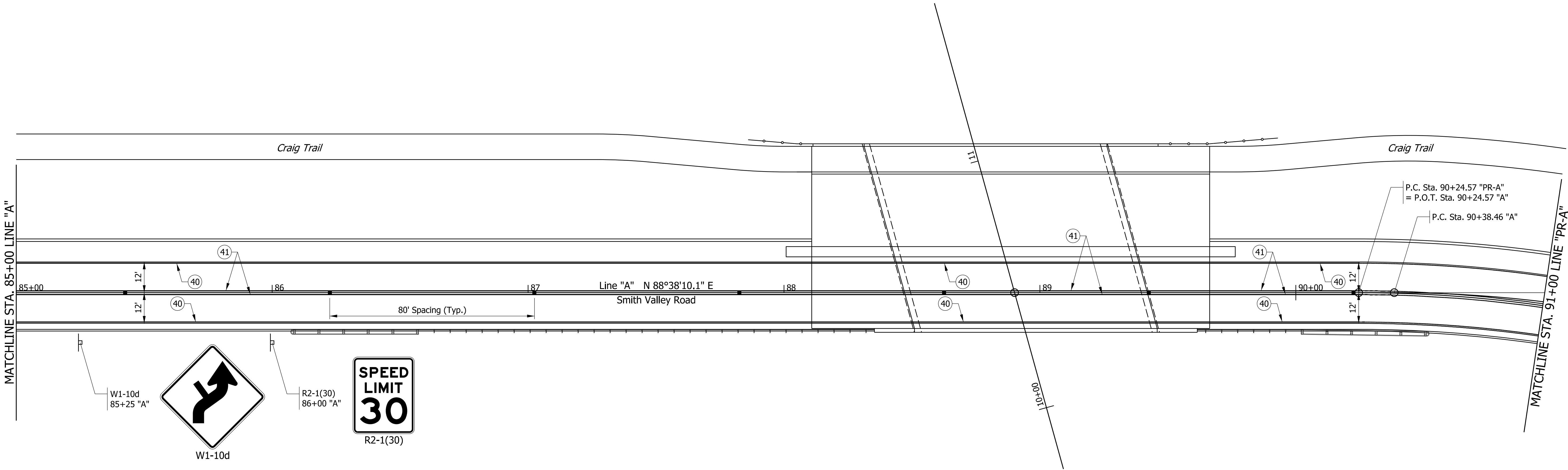
INDIANA  
DEPARTMENT OF TRANSPORTATION

MSE WALL  
DETAILS

BRIDGE FILE	JOHNSON 602
SCALE	DESIGNATION
AS NOTED	1801455
SURVEY BOOK	SHEETS
24	of 82
CONTRACT	PROJECT
B-41320	1801455



- LEGEND**
- 40 4 in. Solid White Multi-Component Line
  - 41 4 in. Solid Yellow Multi-Component Line
  - Snowplowable Raised Pavement Marker



RECOMMENDED FOR APPROVAL _____		
DESIGN ENGINEER		DATE
DESIGNED: AJP	DRAWN: ESC	
CHECKED: JLR	CHECKED: AJP	

INDIANA DEPARTMENT OF TRANSPORTATION	
PAVEMENT MARKING AND SIGN DETAILS	

	BRIDGE FILE	
	JOHNSON 602	
SCALE	DESIGNATION	
1" = 20'	1801455	
SURVEY BOOK	SHEETS	
	25	of 82
CONTRACT	PROJECT	
B-41320	1801455	





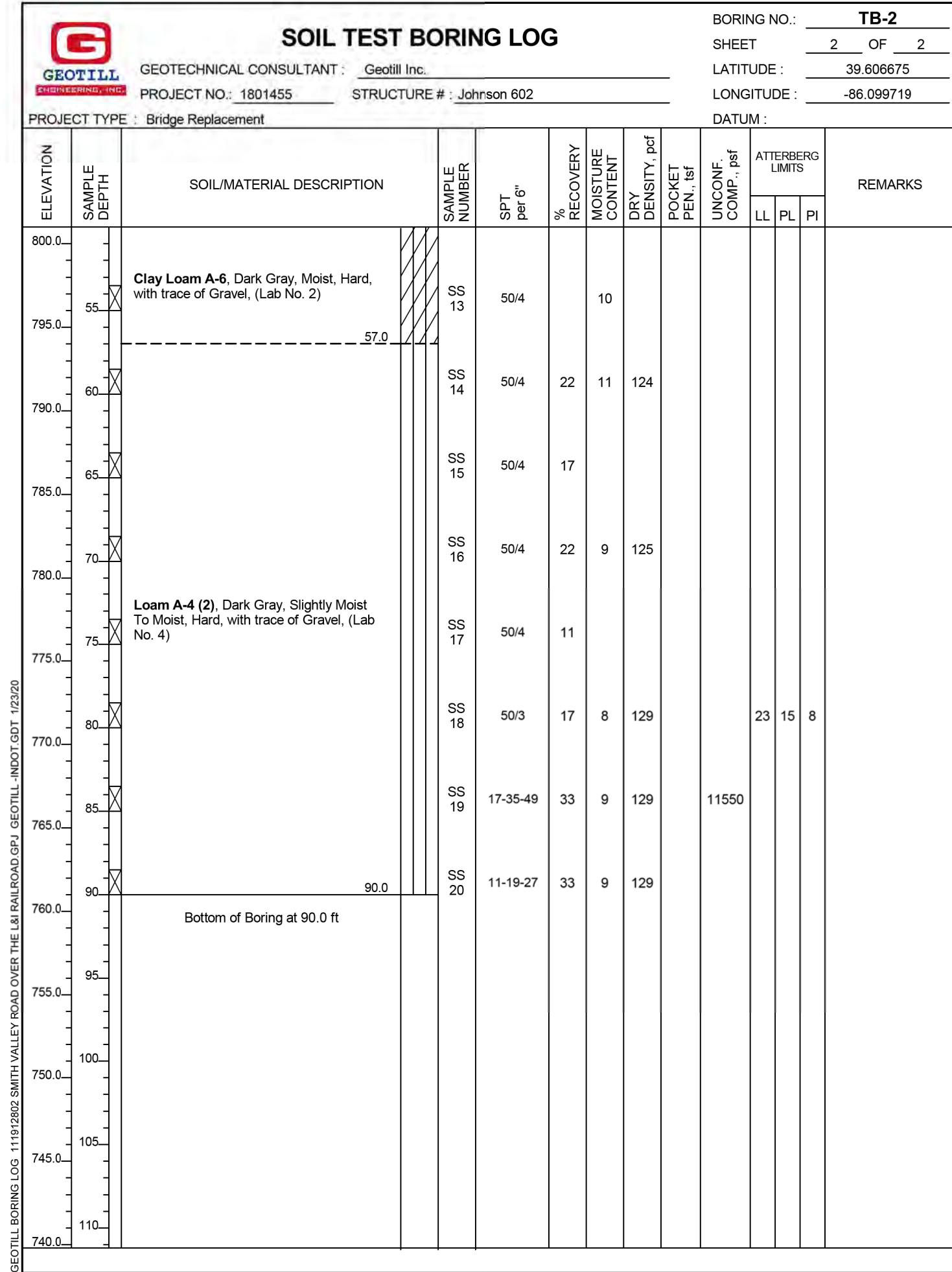
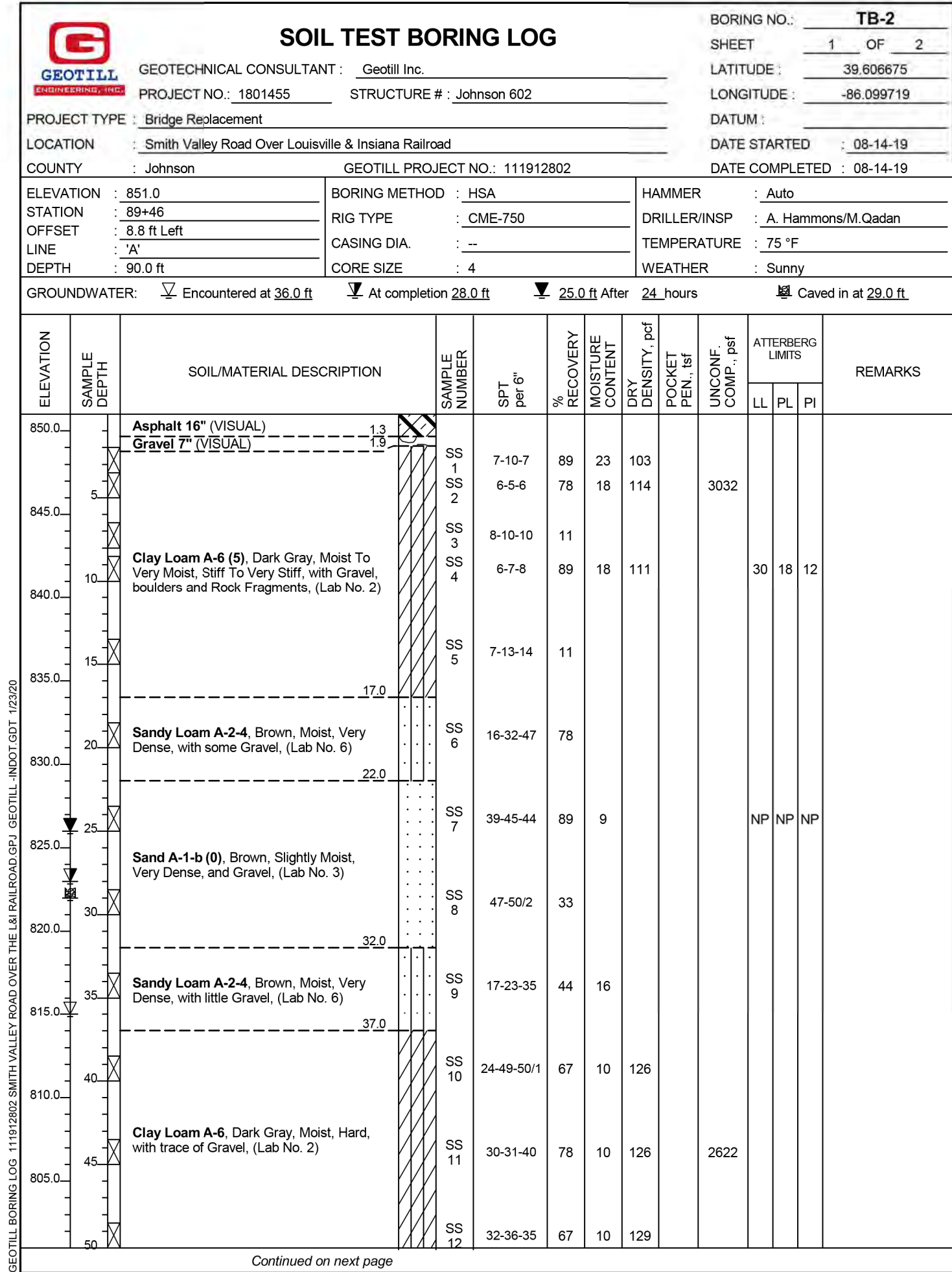
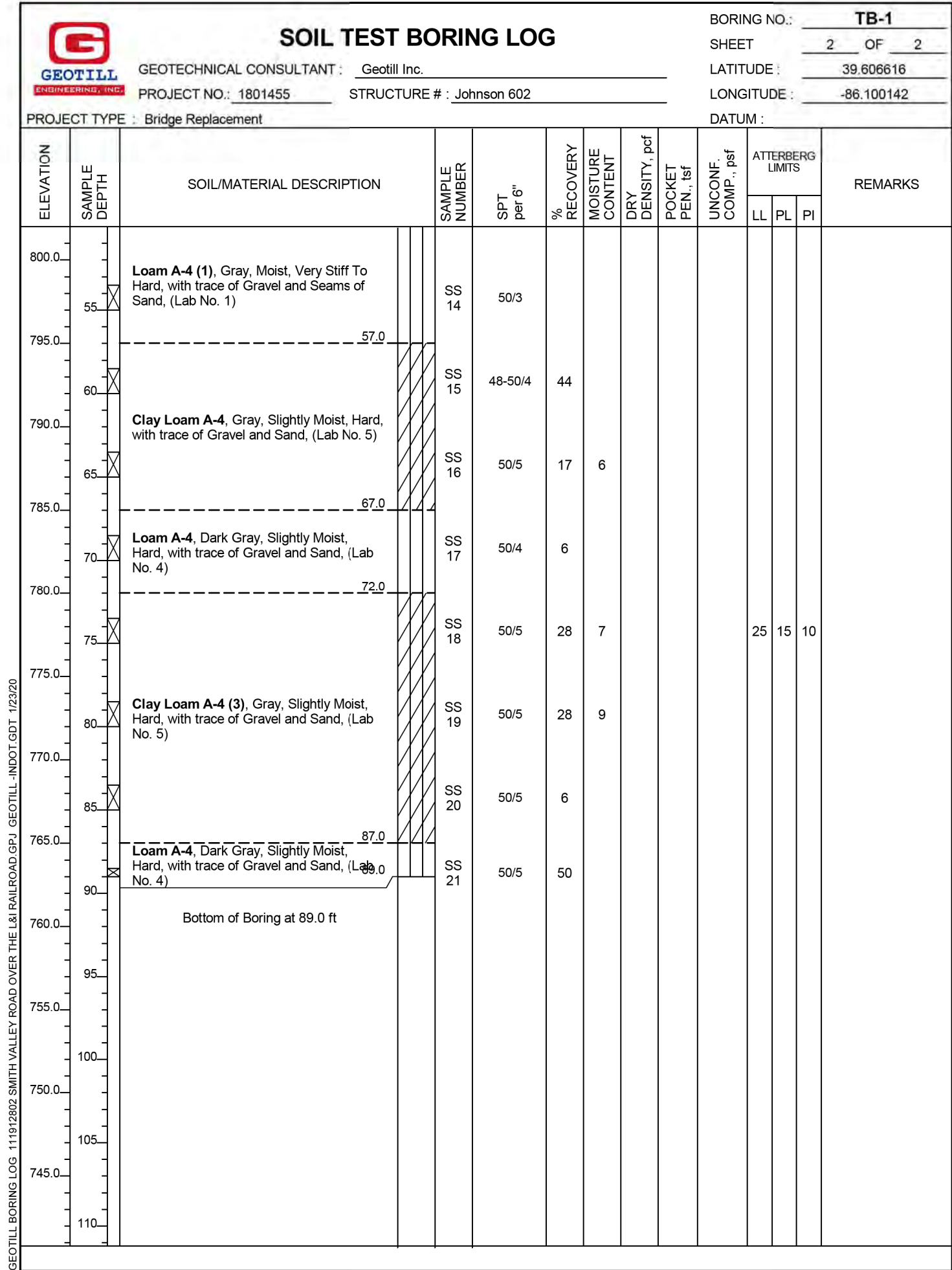
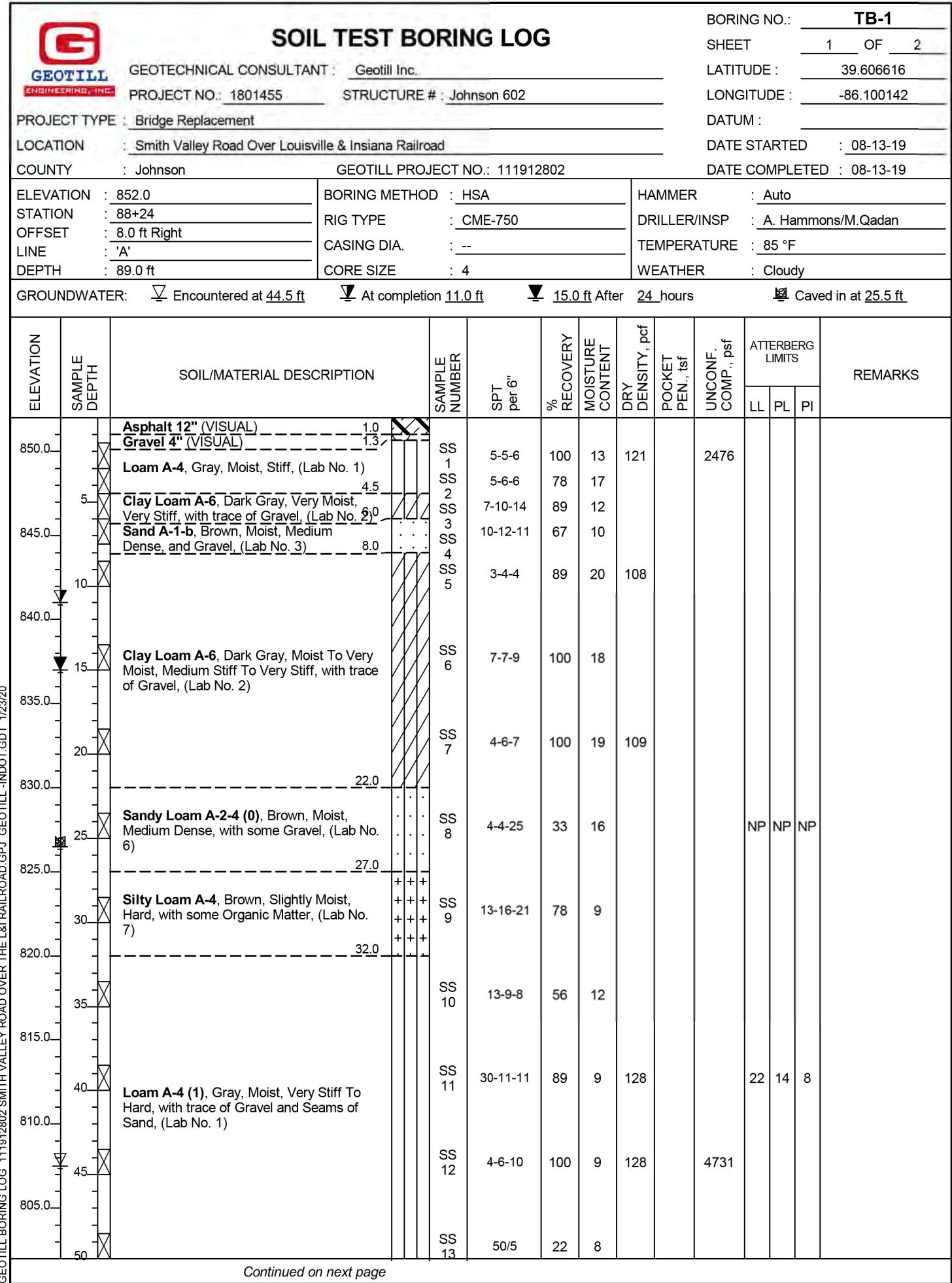


BENT/PIER NO.	End Bent No. 1	End Bent No. 2
File Section	HP 12X53	HP 12X53
Maximum Factored Design Soil Resistance per Pile (Rr), kips	234	234
Resistance Factor ( $\Phi$ dyn)	0.55	0.55
Downdrag Load DD, kips	0.0	0.0
Maximum Nominal Soil Resistance (Rn), kips	426	426
Downdrag Friction (Rsdd), kips	0.0	0.0
Scour Zone Friction (Rs scour), kips	N/A	N/A
Relaxation in Shale (kips)	N/A	N/A
Maximum Nominal Driving Resistance (Rndr), kips	426	426
Estimated Pile Tip Elevation *	786	786
Testing Method*	Dynamic Formula INDOT Standard Specifications Section 701.05 (a)	

**NOTE:**  
See Plan and Profile Sheets  
for Boring Locations.

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE		
				JOHNSON 602		
			SCALE _____	DESIGNATION		
				1801455		
DESIGNED: _____	DRAWN: _____	SOIL TEST BORING LOGS	SURVEY BOOK		SHEETS	
			27	of	82	
CHECKED: _____	CHECKED: _____		CONTRACT		PROJECT	
			B-41320		1801455	





NOTE:  
See Plan and Profile Sheets  
for Boring Locations.

RECOMMENDED  
FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED:

DRAWN:

CHECKED:

CHECKED:

INDIANA  
DEPARTMENT OF TRANSPORTATION

SOIL TEST  
BORING LOGS

BRIDGE FILE

JOHNSON 602

SCALE

DESIGNATION

1801455

SURVEY BOOK

SHEETS

28

of

82

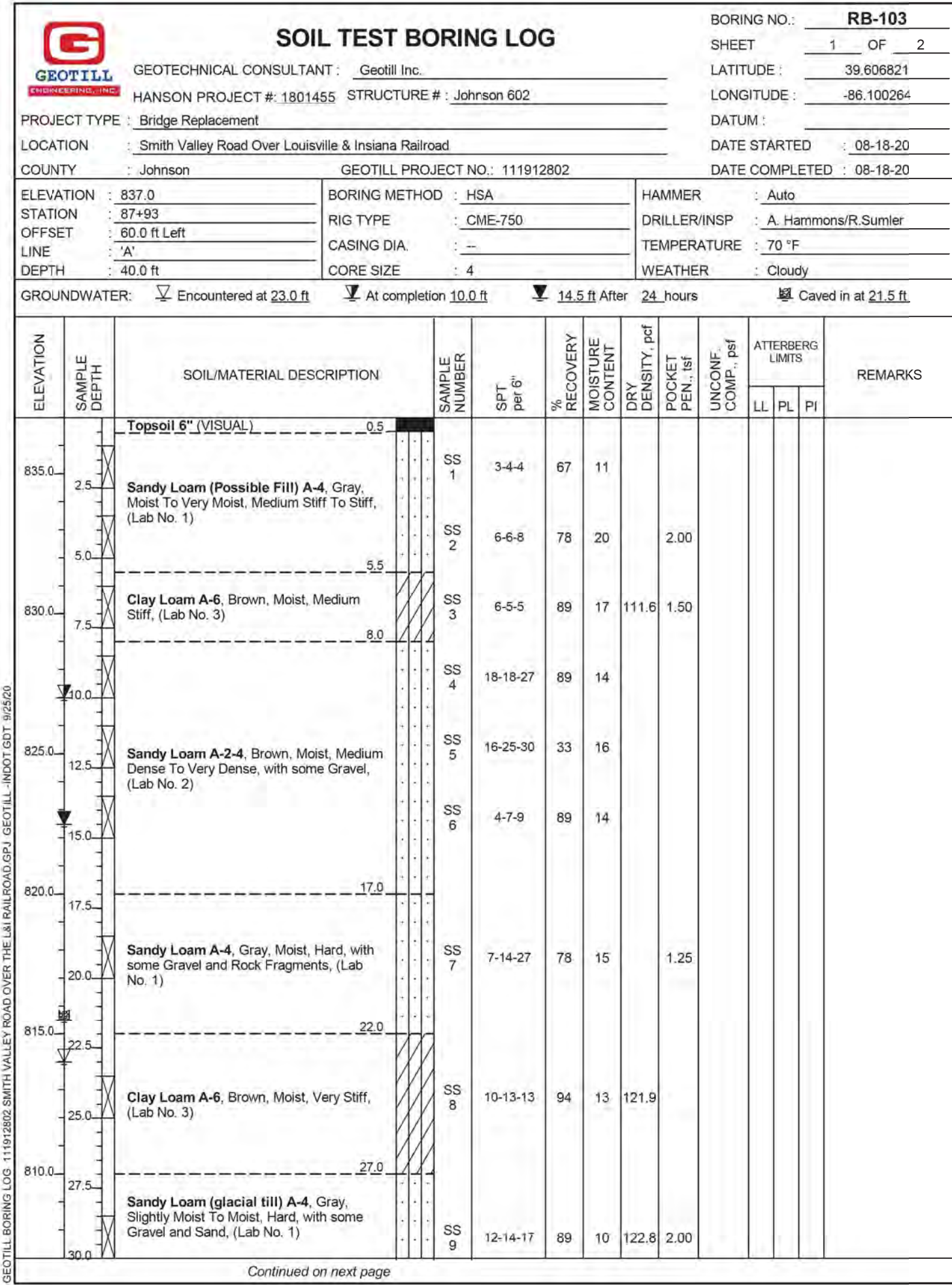
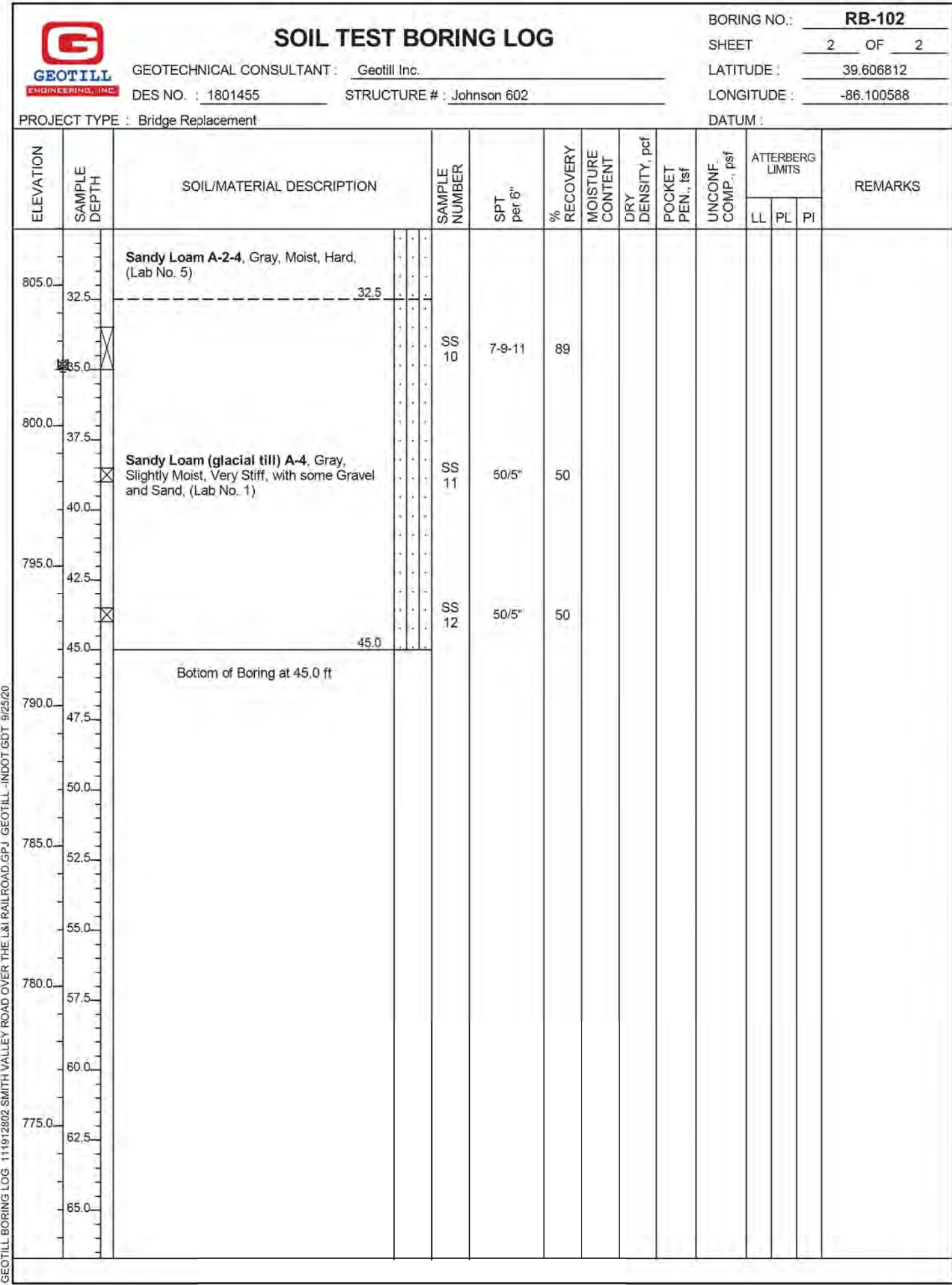
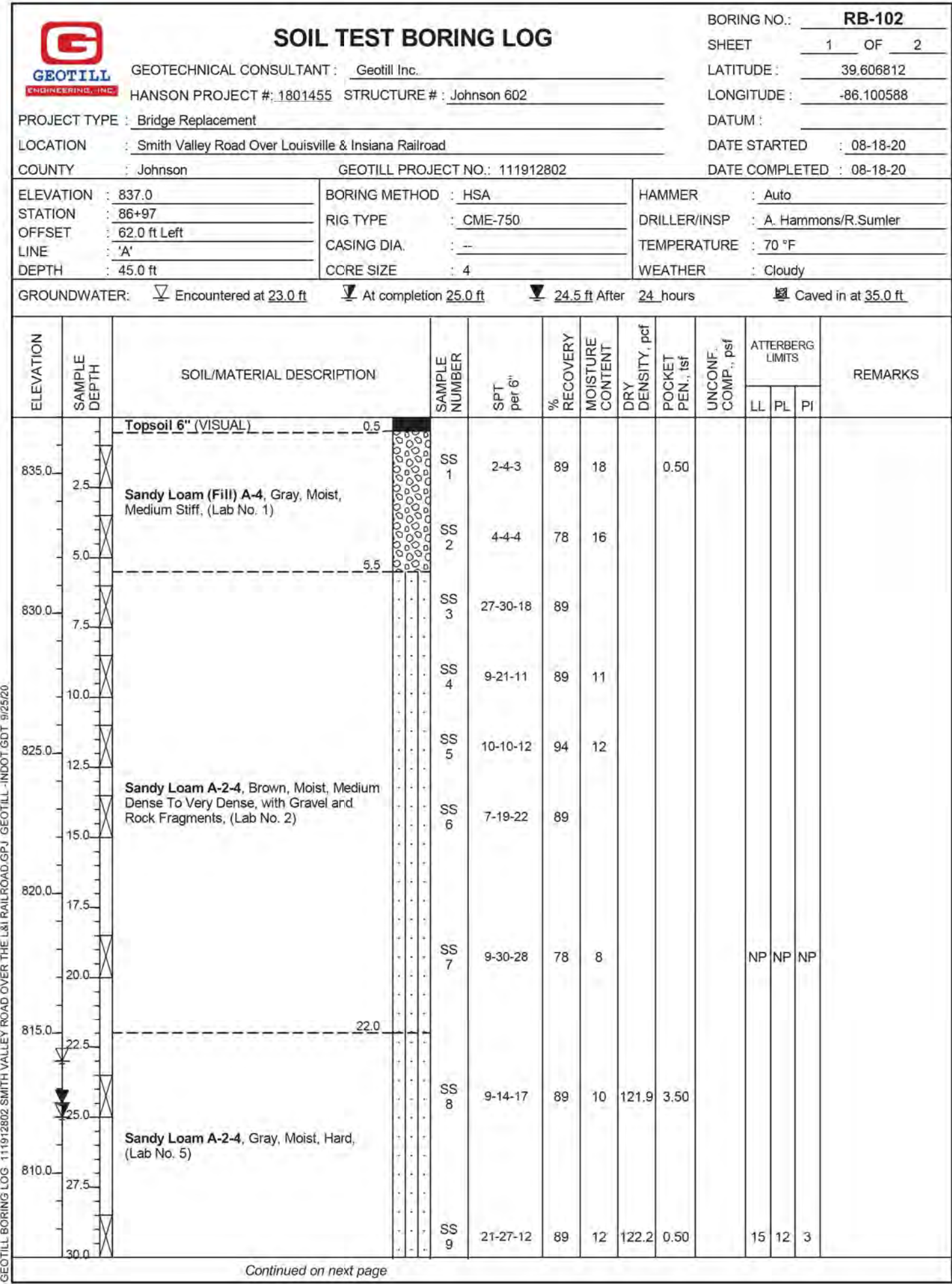
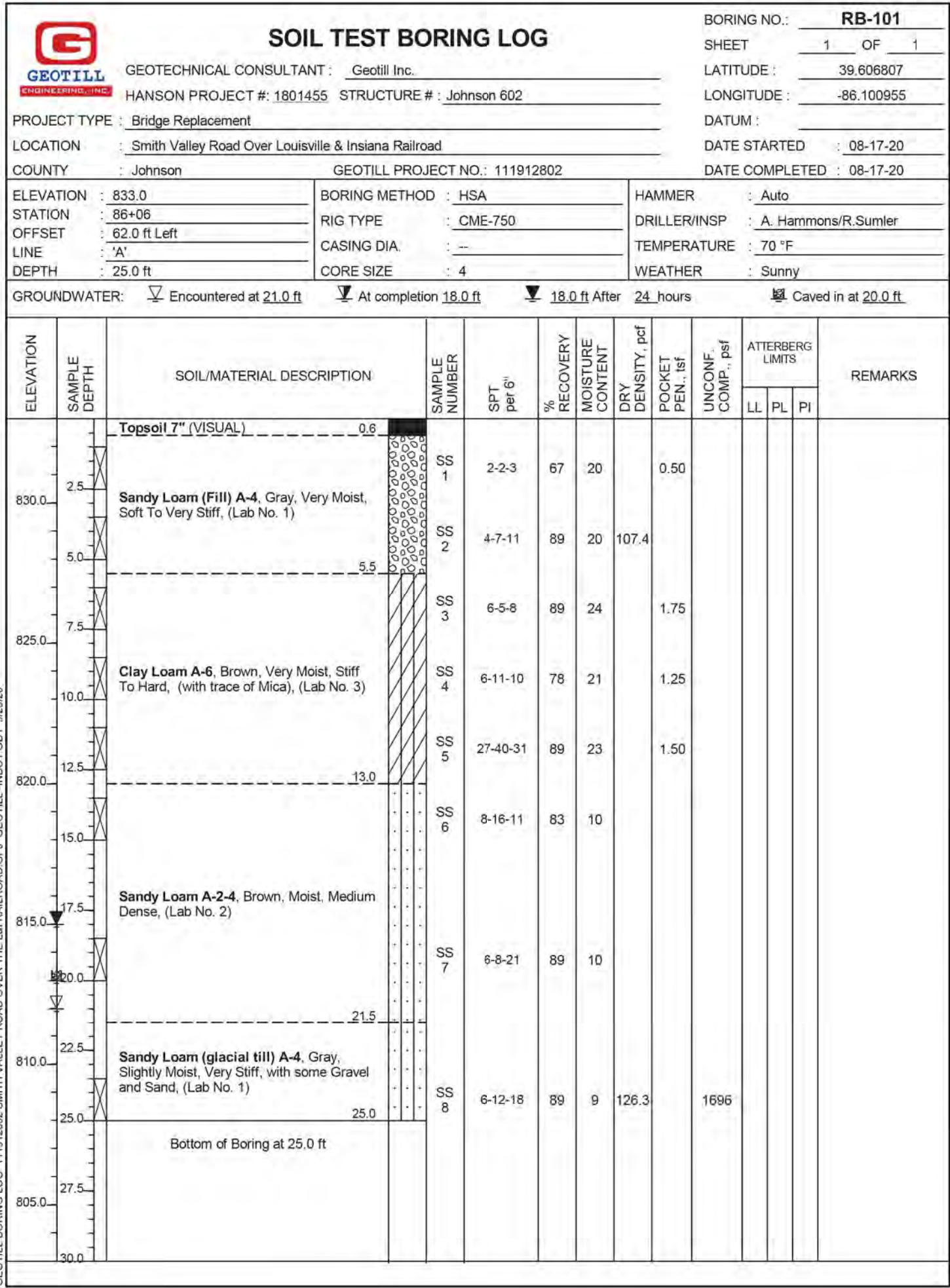
CONTRACT

PROJECT

B-41320

1801455





NOTE:  
See Plan and Profile Sheets  
for Boring Locations.

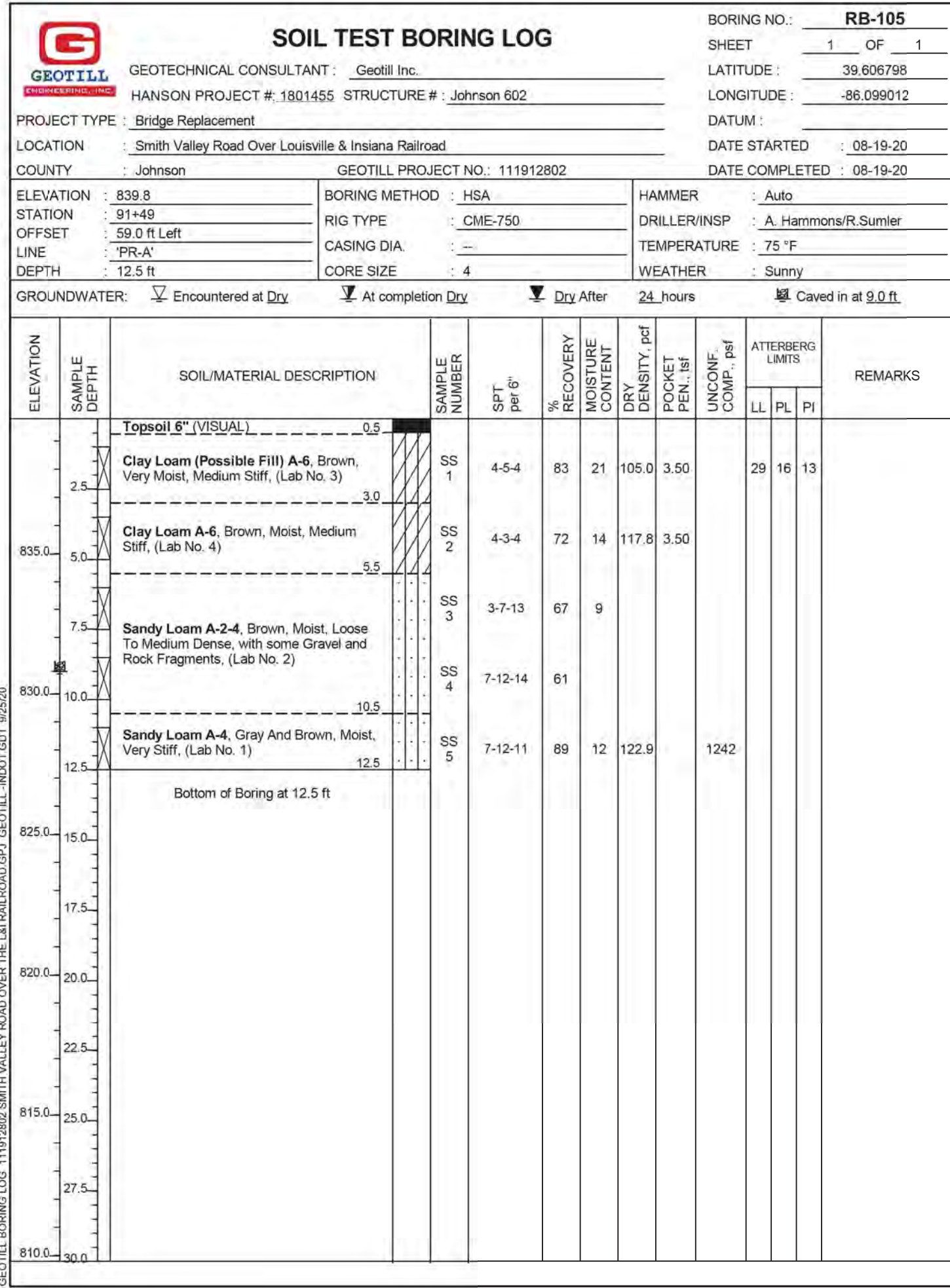
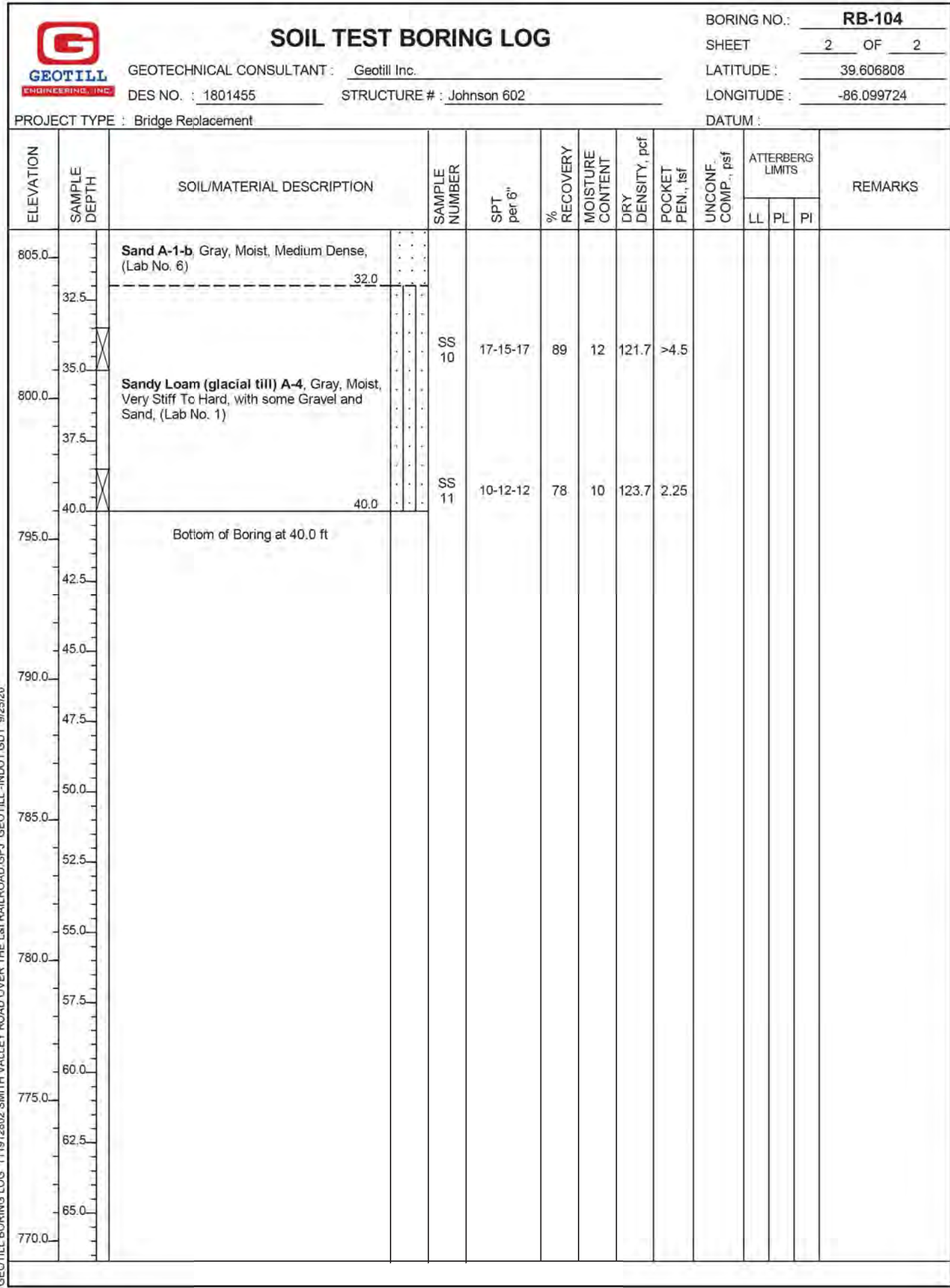
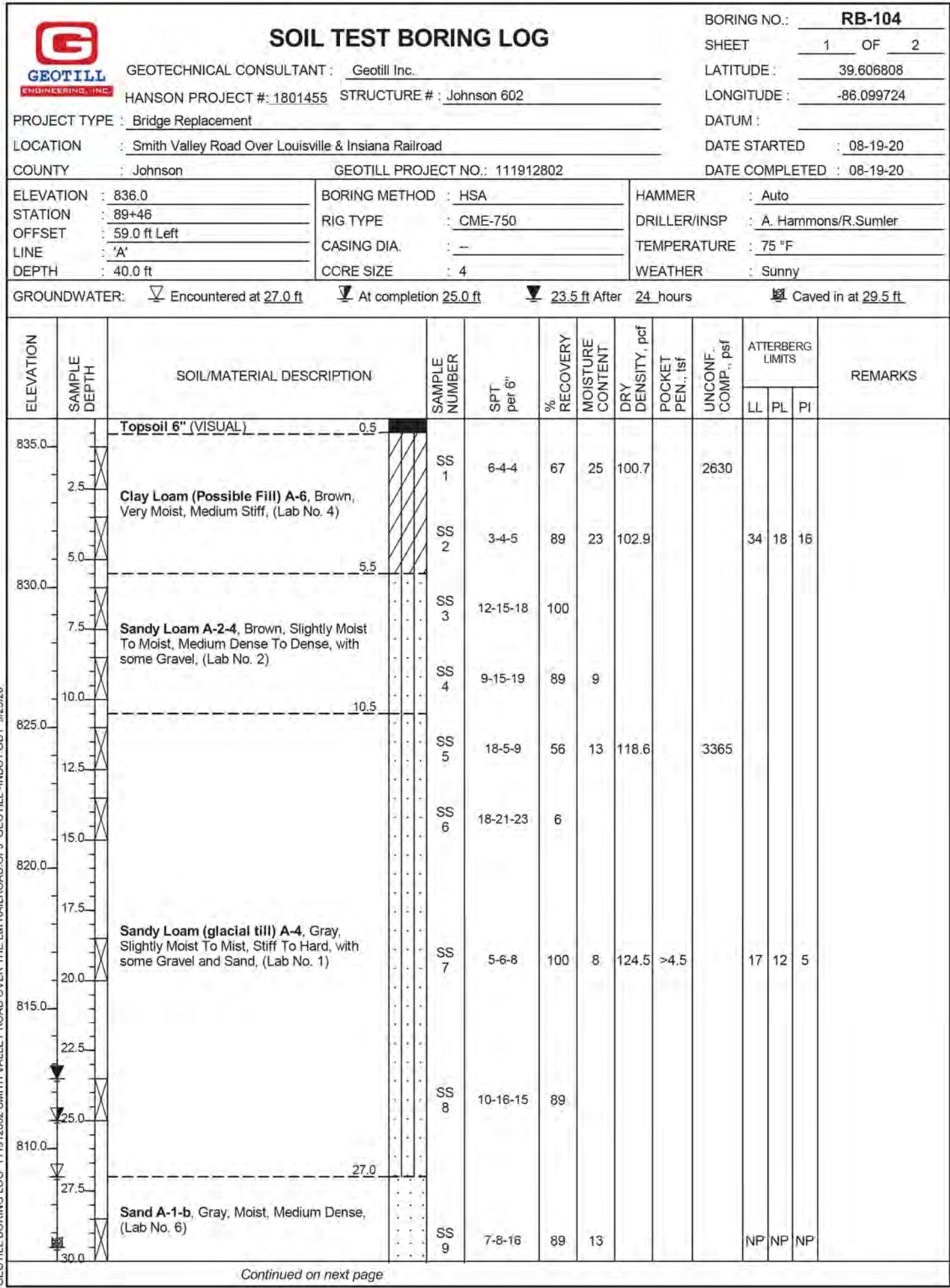
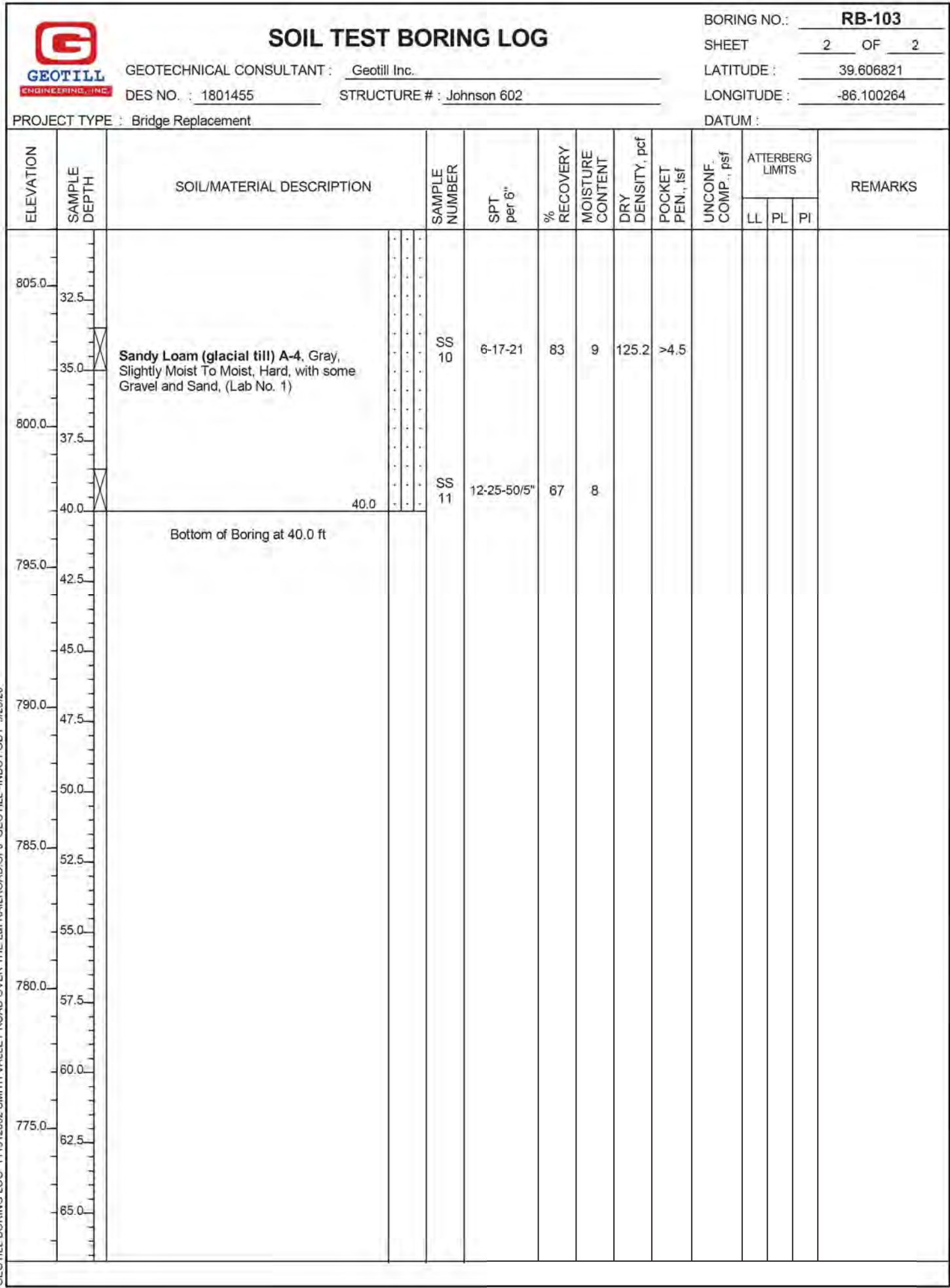
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED:	DRAWN:	
CHECKED:	CHECKED:	

INDIANA  
DEPARTMENT OF TRANSPORTATION

SOIL TEST  
BORING LOGS

	BRIDGE FILE
	JOHNSON 602
SCALE	DESIGNATION
	1801455
SURVEY BOOK	SHEETS
	29 of 82
CONTRACT	PROJECT
B-41320	1801455





NOTE:  
See Plan and Profile Sheets  
for Boring Locations.

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

INDIANA  
DEPARTMENT OF TRANSPORTATION

SOIL TEST  
BORING LOGS

	BRIDGE FILE
	JOHNSON 602
SCALE	DESIGNATION
	1801455
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
B-41320	1801455



SOIL TEST BORING LOG										BORING NO.: <b>RB-106</b>	
 <b>GEOTECHNICAL CONSULTANT</b> : <u>Geotill Inc.</u>		<b>HANSON PROJECT #</b> : <u>1801455</u> <b>STRUCTURE #</b> : <u>Johnson 602</u>		<b>BORING NO.</b> : <u>1</u> <b>OF</b> : <u>1</u> <b>LATITUDE</b> : <u>39.606588</u> <b>LONGITUDE</b> : <u>-86.100379</u> <b>DATE</b> : _____ <b>DATE STARTED</b> : <u>08-20-20</u> <b>DATE COMPLETED</b> : <u>08-21-20</u>							
<b>PROJECT TYPE</b> : <u>Bridge Replacement</u> <b>LOCATION</b> : <u>Smith Valley Road Over Louisville &amp; Insiana Railroad</u> <b>COUNTY</b> : <u>Johnson</u> <b>GEOTILL PROJECT NO.</b> : <u>111912802</u>											
<b>ELEVATION</b> : <u>853.0</u>		<b>BORING METHOD</b> : <u>HSA</u>		<b>HAMMER</b> : <u>Auto</u>							
<b>STATION</b> : <u>87+57</u>		<b>RIG TYPE</b> : <u>CME-750</u>		<b>DRILLER/INSP</b> : <u>A. Hammmons/R.Sumler</u>							
<b>OFFSET</b> : <u>10.0 ft Right</u>		<b>CASING DIA</b> : <u>---</u>		<b>TEMPERATURE</b> : <u>77 °F</u>							
<b>LINE</b> : <u>A</u>		<b>CORE SIZE</b> : <u>4</u>		<b>WEATHER</b> : <u>Sunny</u>							
<b>DEPTH</b> : <u>20.0 ft</u>											
<b>GROUNDWATER</b> : <input checked="" type="checkbox"/> Encountered at <u>Dr</u> <input checked="" type="checkbox"/> At completion <u>Dr</u> <input checked="" type="checkbox"/> <u>Dr</u> After <u>24</u> hours <input checked="" type="checkbox"/> Caved in at <u>17.3 ft</u>											

ELEVATION	SAMPLE DEPTH	SOIL/MATERIAL DESCRIPTION	SAMPLE NUMBER	SPT pts 6"	% RECOVERY	MOISTURE CONTENT	UNIT WEIGHT pcf	POCKET PEN. test	UNCONF. COMP. test	ATTERBERG LIMITS			REMARKS
										LL	PL	PI	
		<b>Asphalt 14" (VISUAL)</b>											
		<b>Gravel 8" (VISUAL)</b>											
850.0	2.5	<b>Sandy Loam (Fill) A-4, Gray, Moist, Stiff To Very Stiff, (Lab No. 1)</b>	SS 1	3-5-7	72	15	115.7		4358				
	5.0		SS 2	5-7-10	83	19	4.50						
845.0	7.5	<b>Clay Loam (possible fill) A-6, Brown, Slightly Moist, Stiff, (Lab No. 3)</b>	SS 3	3-6-7	78	9							
	10.0		SS 4	7-7-8	50	19	3.00						
840.0	12.5	<b>Sandy Loam A-4, Gray, Moist To Very Moist, Stiff To Very Stiff, with some Gravel and Rock Fragments, (Lab No. 1)</b>	SS 5	5-7-9	83	21	106.5		3262				
	15.0		SS 6	5-6-8	50	20	107.9	3.25					
835.0	17.5	<b>Clay Loam A-6, Brown, Very Moist, Very Stiff, (Lab No. 3)</b>	SS 7	7-11-14	61	22	1.75						
	20.0	<b>Bottom of Boring at 20.0 ft</b>											

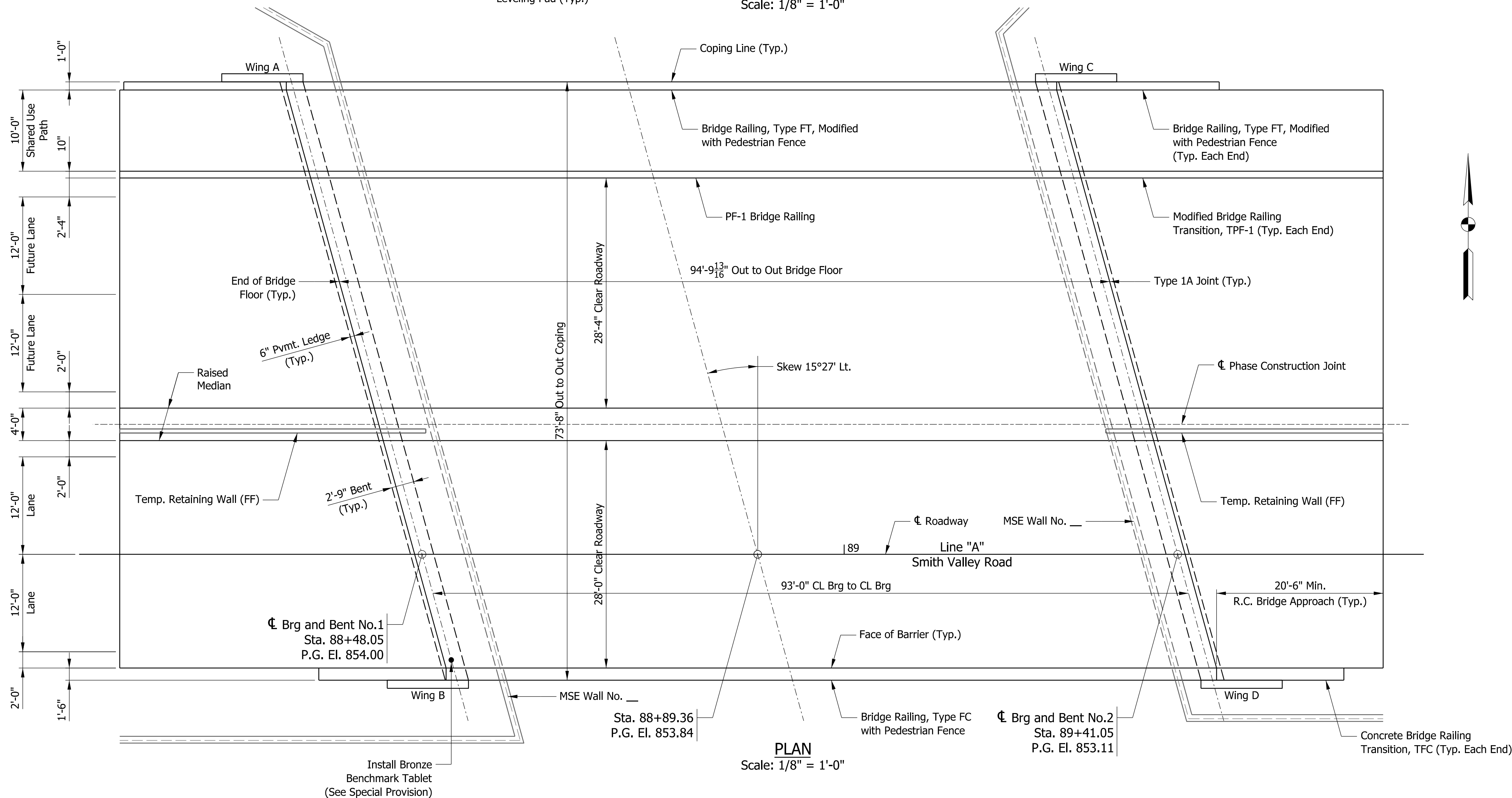
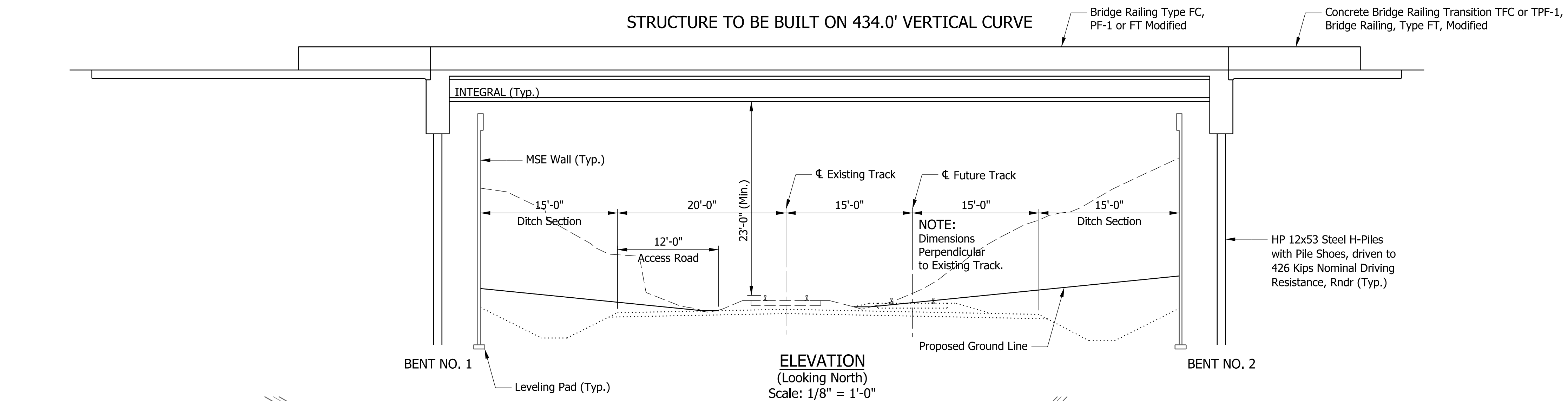
GEOTILL BORINGS LOG: 111912802 SMITH VALLEY ROAD OVER THE LOUISVILLE & INDIANA RAILROAD, GEOTILL REPORT 0007 022520

NOTE:  
See Plan and Profile Sheets  
for Boring Locations.

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION			BRIDGE FILE	
				JOHNSON 602	
			SCALE	DESIGNATION	
				1801455	
DESIGNED: _____	DRAWN: _____	SOIL TEST BORING LOGS	SURVEY BOOK		SHEETS
			31	of	82
CHECKED: _____	CHECKED: _____		CONTRACT		PROJECT
			B-41320	1801455	







GENERAL PLAN  
COMPOSITE PRESTRESSED CONCRETE  
HYBRID BULB-TEE BRIDGE  
1 SPAN: 93'-0"  
28'-0" CLEAR ROADWAY SKEW: 15°27' LT  
SMITH VALLEY ROAD OVER  
LOUISVILLE AND INDIANA RAILROAD  
JOHNSON COUNTY

DATE	REVISION			RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE
									JOHNSON 602
									DESIGNATION
									1801455
									SHEETS
									33 of 82
									PROJECT
									1801455

DESIGNED: RJZ	DRAWN: ESC
CHECKED: HNG	CHECKED: RJZ

PROPOSED GENERAL PLAN	
--------------------------	--



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

The exterior girder has been checked for strength, deflection, and overturning using the construction loads shown below. Cantilever overhang brackets were assumed for support of the deck overhang past the edge of the exterior girder. The finishing machine was assumed to be supported 6" outside the vertical coping form. The top overhang brackets were assumed to be located 6" past the edge of the vertical coping form. The bottom overhang brackets were assumed to be braced against the intersection of the girder bottom flange and web.

Designed for 15 psf for permanent metal stay-in-place deck forms, removable deck forms and 2 ft exterior walkway.

Designed for 20 psf extending 2 ft past the edge of coping and 75 psf 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.

4500 lbs distributed over 10 ft along the coping.

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

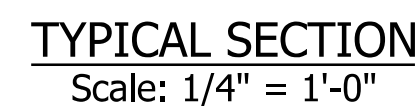
Designed for HL-93 loading in accordance with the AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017 (LRFD 8), including interim revisions.

Dead Load increased 35 psf for future wearing surface and 15 psf for stay-in-place forms.

Floor Slab designed with the AASHTO Strip Method using a structural depth of 7 1/2".

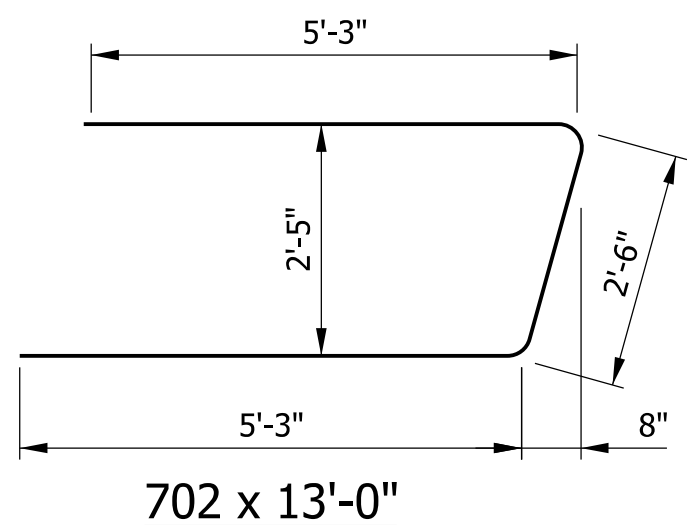
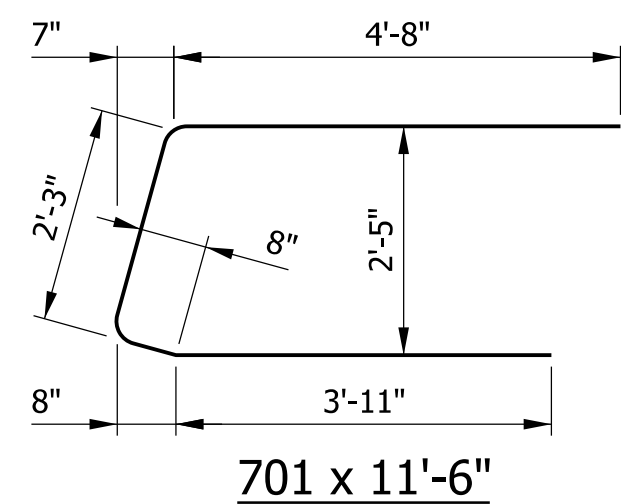
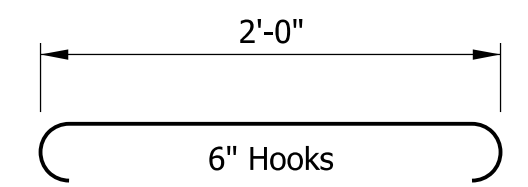
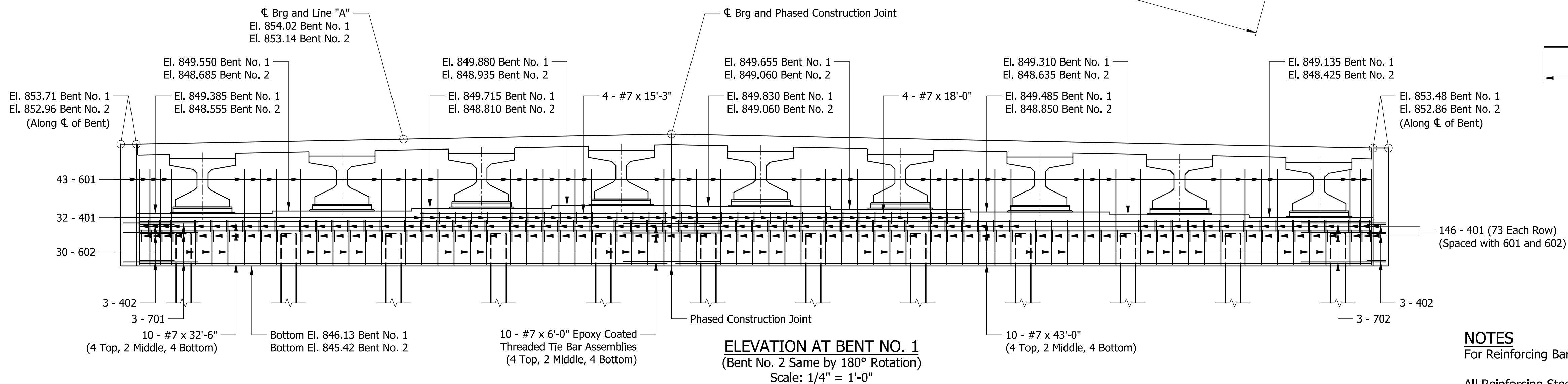
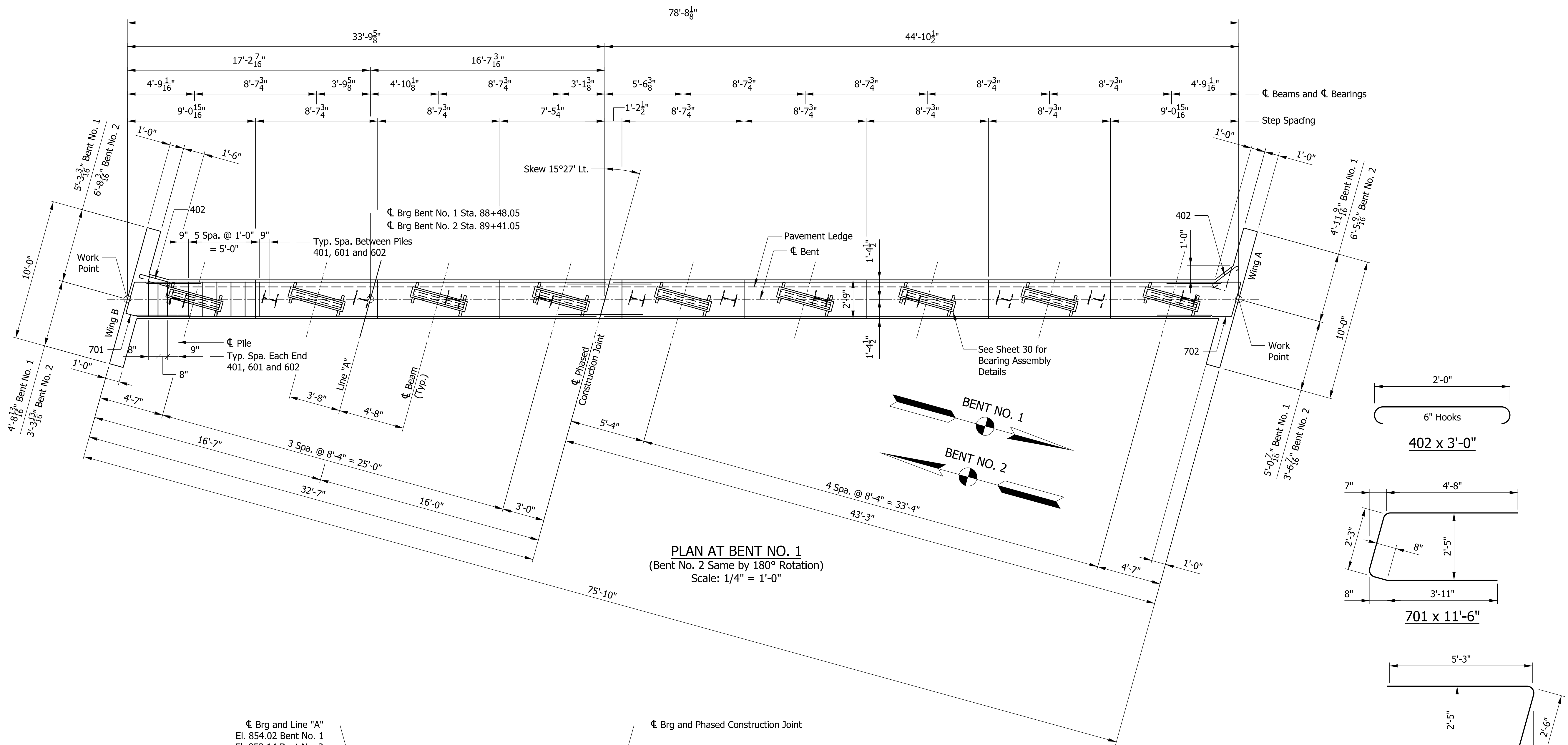
Class "A":  $f'_c = 3500$  psi  
Class "B":  $f'_c = 3000$  psi  
Class "C":  $f'_c = 4000$  psi

Grade 60:  $f_y = 60000$  psi



28'-0" CLEAR ROADWAY    SKEW: 15°27' LT  
SMITH VALLEY ROAD OVER  
LOUISVILLE AND INDIANA RAILROAD  
JOHNSON COUNTY

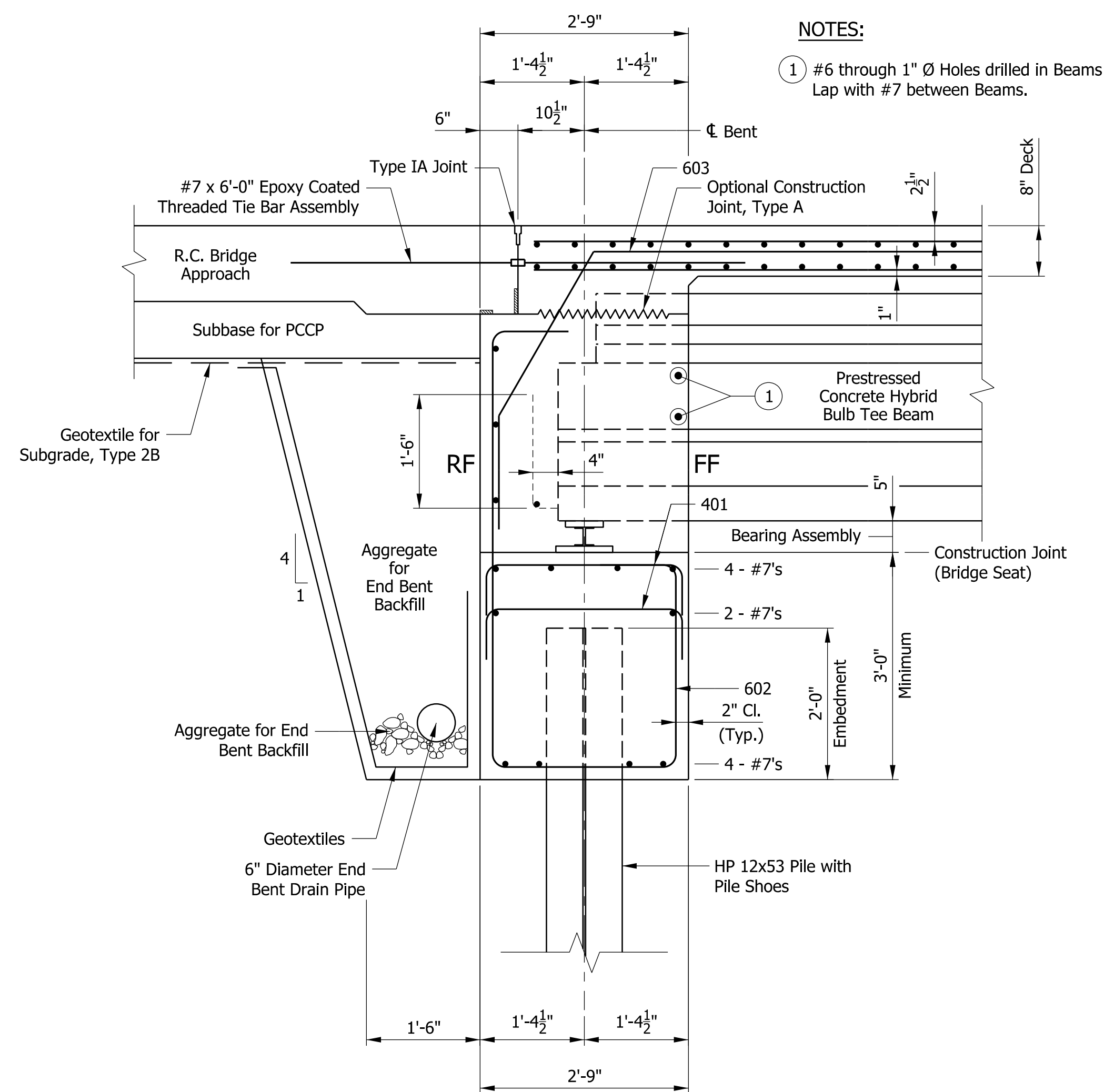
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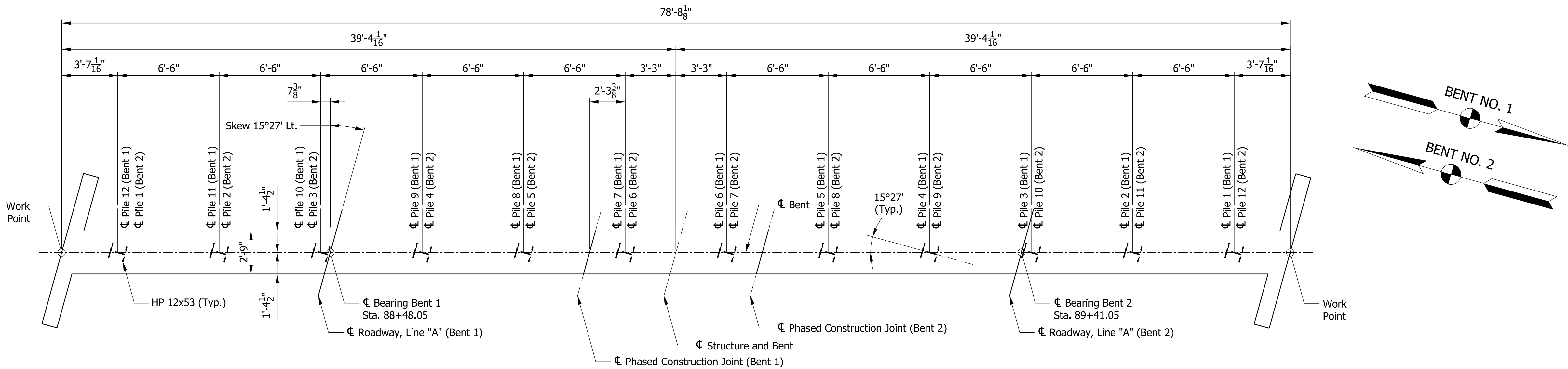
**NOTES**  
For Reinforcing Bar Notes, see INDOT Standard E703-BRST-01.  
All Reinforcing Steel to be Epoxy Coated.

DATE	REVISION			RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION			BRIDGE FILE
									JOHNSON 602
								SCALE	DESIGNATION
								AS NOTED	1801455
								SURVEY BOOK	SHEETS
									35 of 82
								CONTRACT	PROJECT
								B-41320	1801455

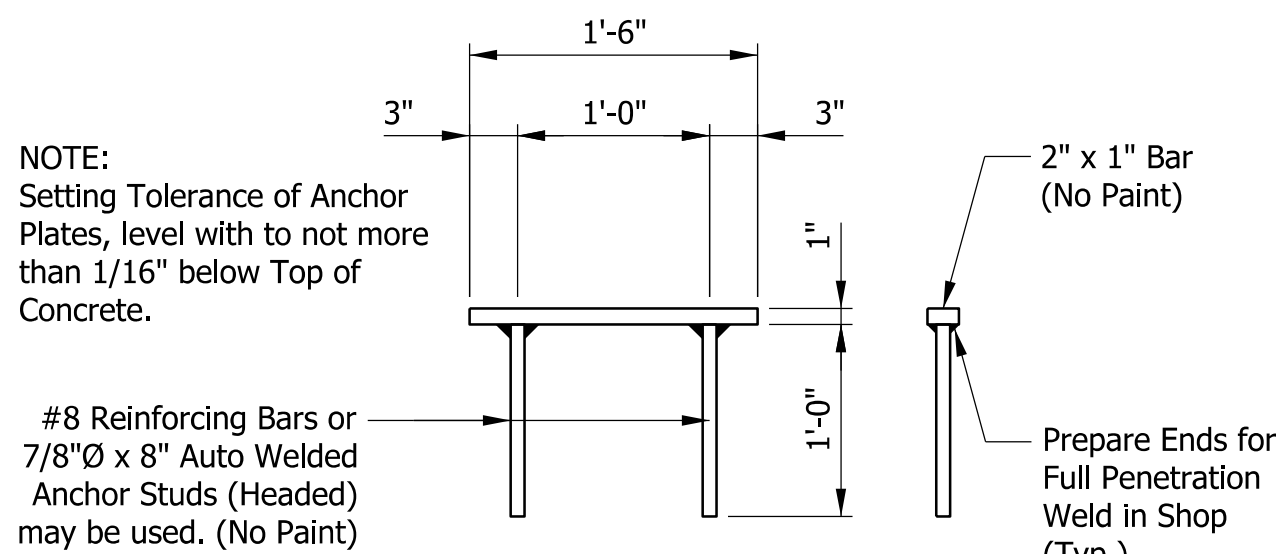


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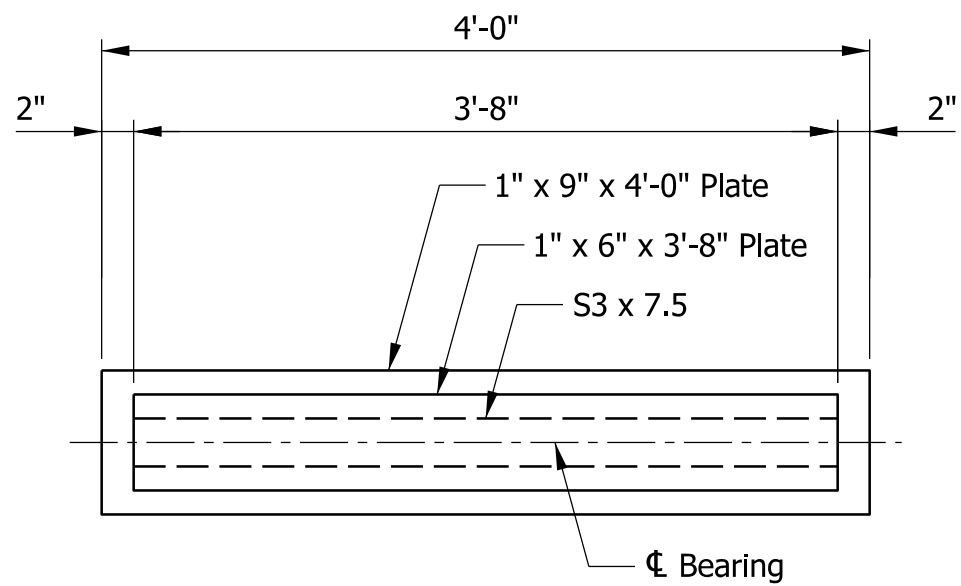
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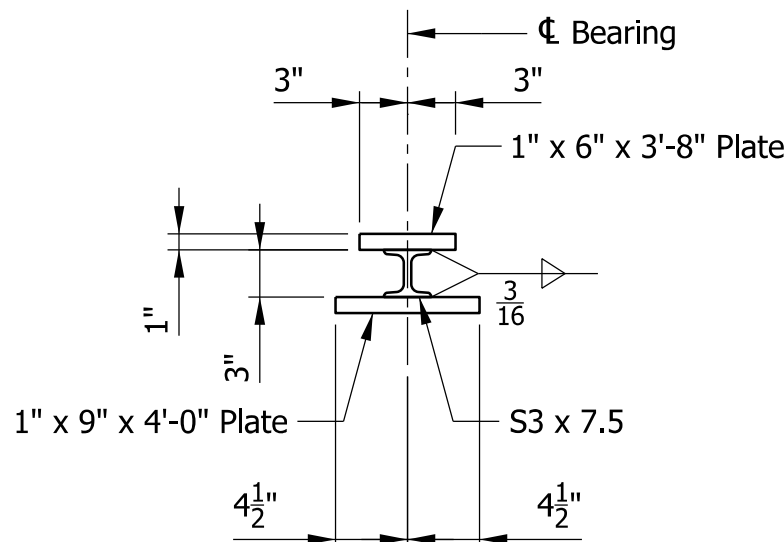
**PILING PLAN AT BENT NO. 1**  
(Bent No. 2 Same by 180° Rotation)  
Scale: 1/4" = 1'-0"



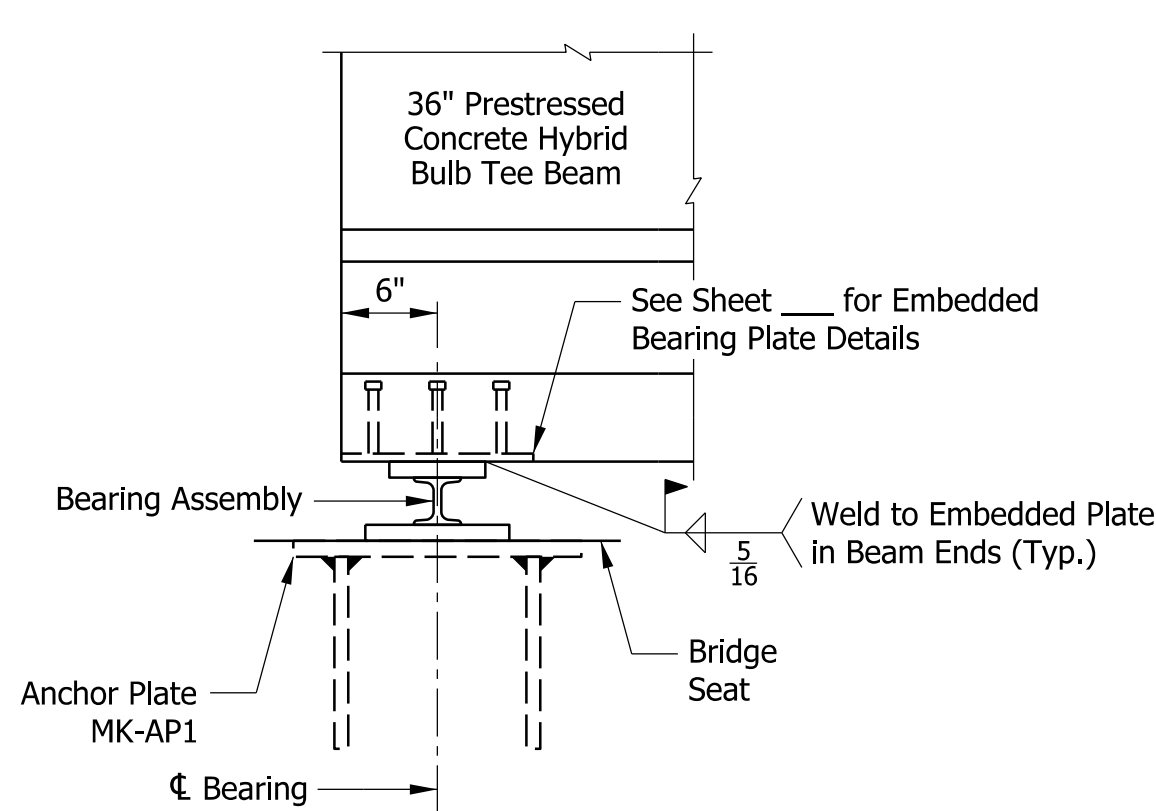
**ANCHOR PLATE MK-AP1 DETAIL**  
Scale: 1" = 1'-0"



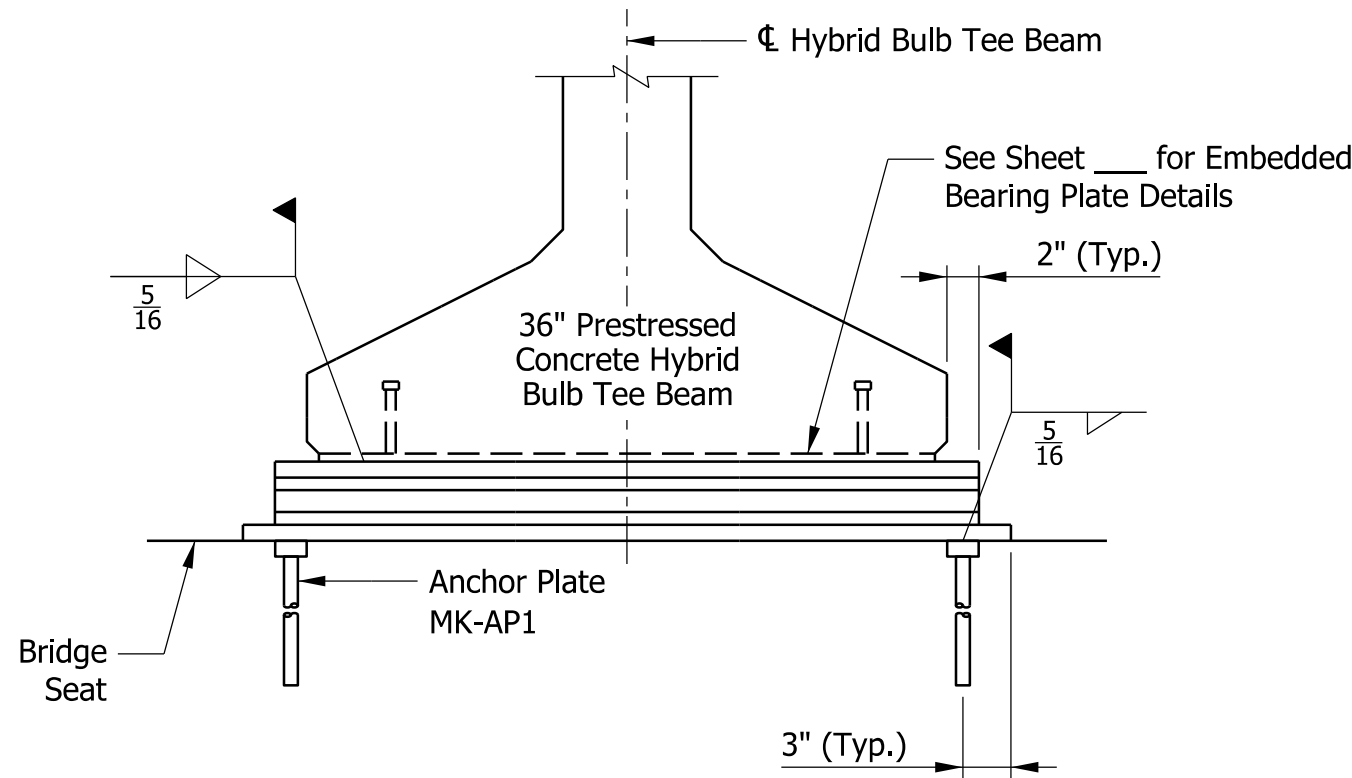
**BEARING ASSEMBLY**  
PLAN VIEW  
Scale: 1" = 1'-0"



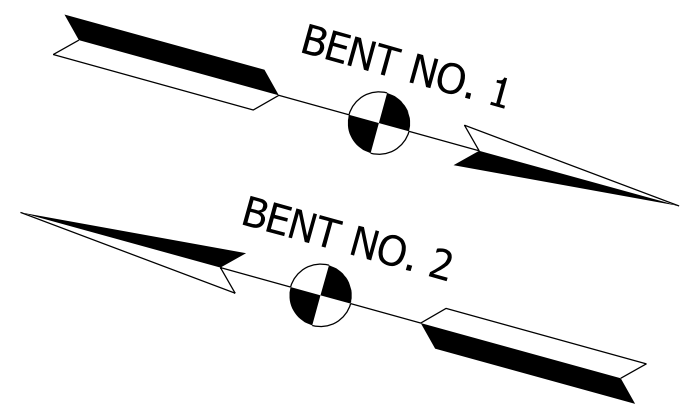
**BEARING ASSEMBLY**  
ELEVATION VIEW  
Scale: 1" = 1'-0"



**CONCRETE BULB TEE BEAM**  
SIDE VIEW  
Scale: 1" = 1'-0"



**CONCRETE BULB TEE BEAM**  
END VIEW  
Scale: 1" = 1'-0"



**BILL OF MATERIAL**  
**BENT NO. 1**  
(BENT NO. 2 SAME)

**EPOXY COATED**  
**REINFORCING STEEL**

SIZE and MARK	NO. of BARS	LENGTH	WEIGHT (LBS)
701	3	11'-6"	
702	3	13'-0"	
#7	10	43'-0"	
#7	10	32'-6"	
#7	4	18'-0"	
#7	4	15'-3"	
		TOTAL #7	1965
601	43	14'-11"	
602	30	12'-10"	
		TOTAL #6	1542
401	178	3'-9"	
402	6	3'-0"	
		TOTAL #4	458
TOTAL EPOXY COATED REINFORCING STEEL (LBS)			3965

**CONCRETE**

CLASS C IN SUPERSTRUCTURE	
BENT NO. 1	25.6 CYS
BENT NO. 2	24.0 CYS
TOTAL CLASS C IN SUPERSTRUCTURE	49.6 CYS

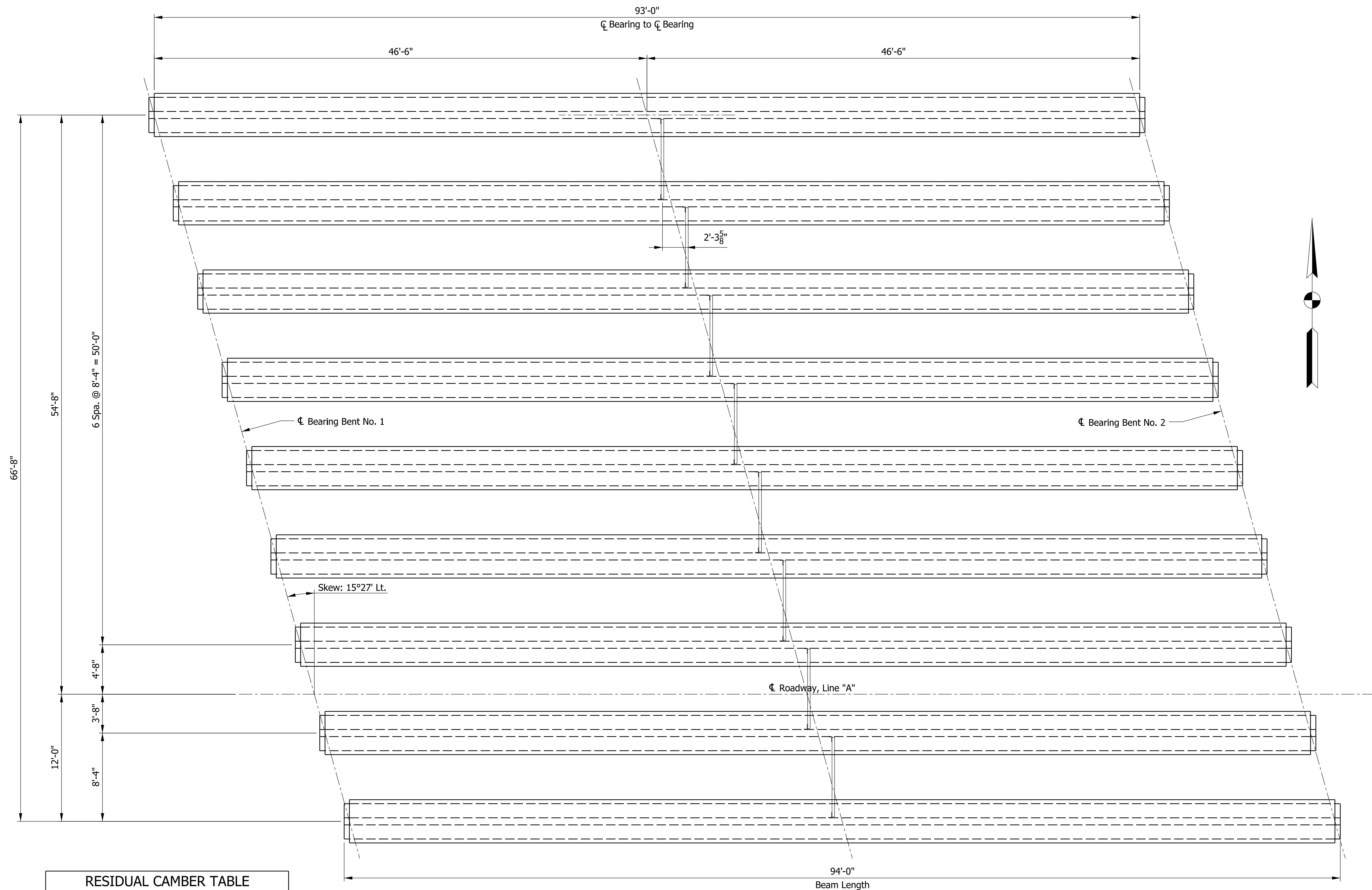
**MISCELLANEOUS**

PILE, STEEL HP 12x53, 11 @ 62'	682 LFT
PILE SHOES	12 EACH
TEST PILE, INDICATOR, PRODUCTION, 1 @ 72'	72 LFT
TEST PILE, INDICATOR, RESTRIKE	1 EACH
#7 x 6'-0" THREADED TIE BAR ASSEMBLY	10 EACH
SURFACE SEAL	570 SFT

**NOTES**  
For Reinforcing Bar Notes, see INDOT Standard E703-BRST-01.

All Reinforcing Steel to be Epoxy Coated.

DATE	REVISION			RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		SCALE	BRIDGE FILE
									AS NOTED	JOHNSON 602
										DESIGNATION
										1801455
									SURVEY BOOK	SHEETS
										37 of 82
									CONTRACT	PROJECT
									B-41320	1801455



RESIDUAL CAMBER TABLE	
Initial Beam Camber	5"
Superimposed Dead Load Deflection	$2\frac{11}{16}$ "
Residual Camber	$2\frac{5}{16}$ "

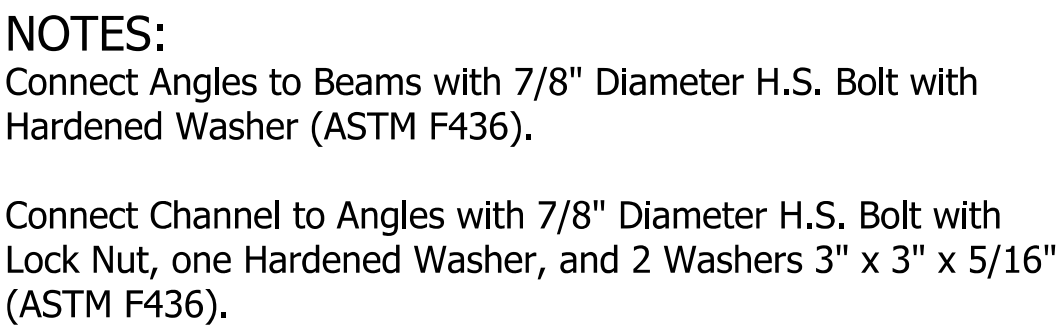
**FRAMING PLAN**  
Scale: 3/16" = 1'-0"

**NOTE**  
Initial Beam Camber equals Upward Deflection from Prestressing Force minus Downward Deflection from Dead Load of the Beam in Inches.

[illegible]







**ELEVATION**  
Not to Scale

## STEEL DIAPHRAGM NOTES

**CONNECTIONS:**

Ensure all Bolted Connections are ASTM 325. Bolts, Nuts and Washers, are Mechanically Zinc Coated in accordance with ASTM B695, for Class 50.

STRUCTURAL STEEL:

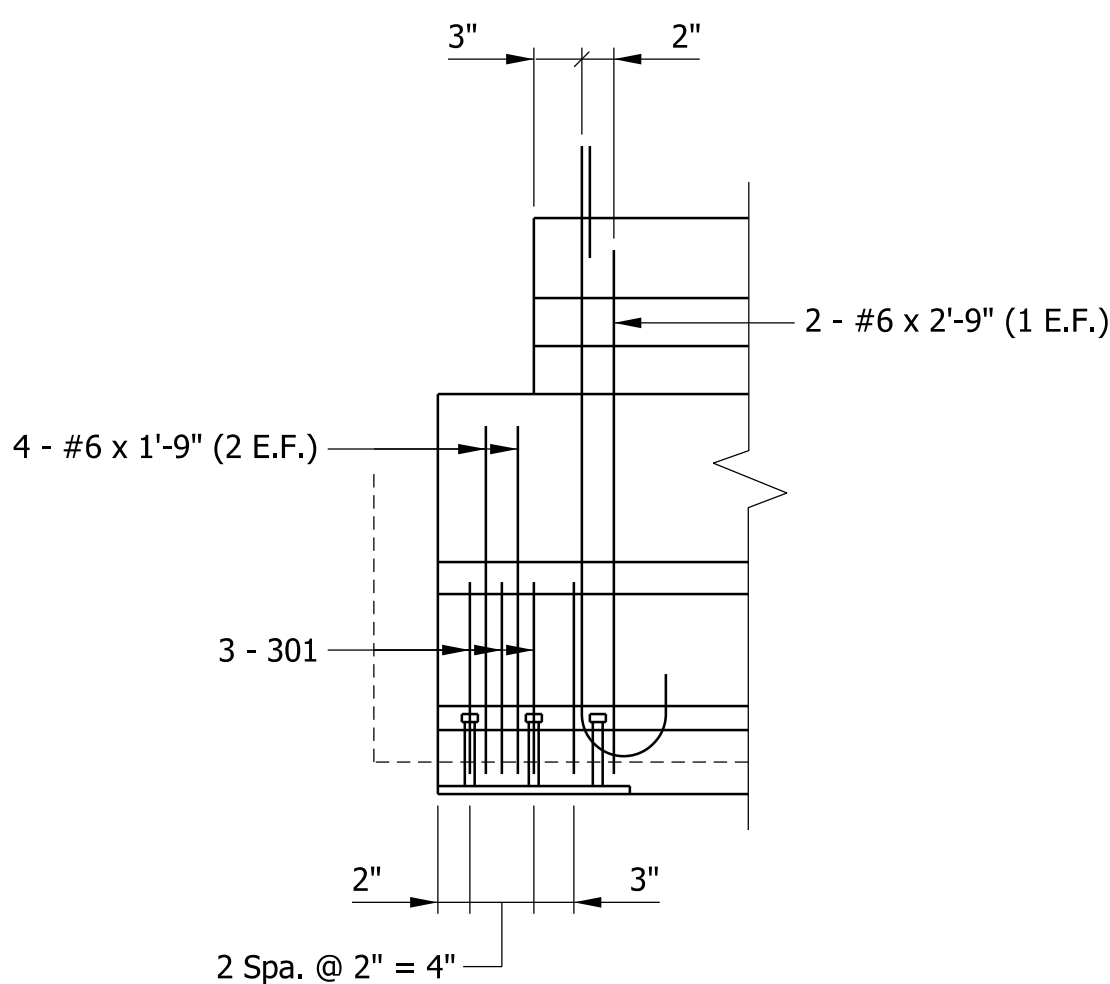
Ensure Bars and Angles conform to ASTM A709 Grade 50 and Galvanized after Fabrication.

SHOP DRAWINGS:

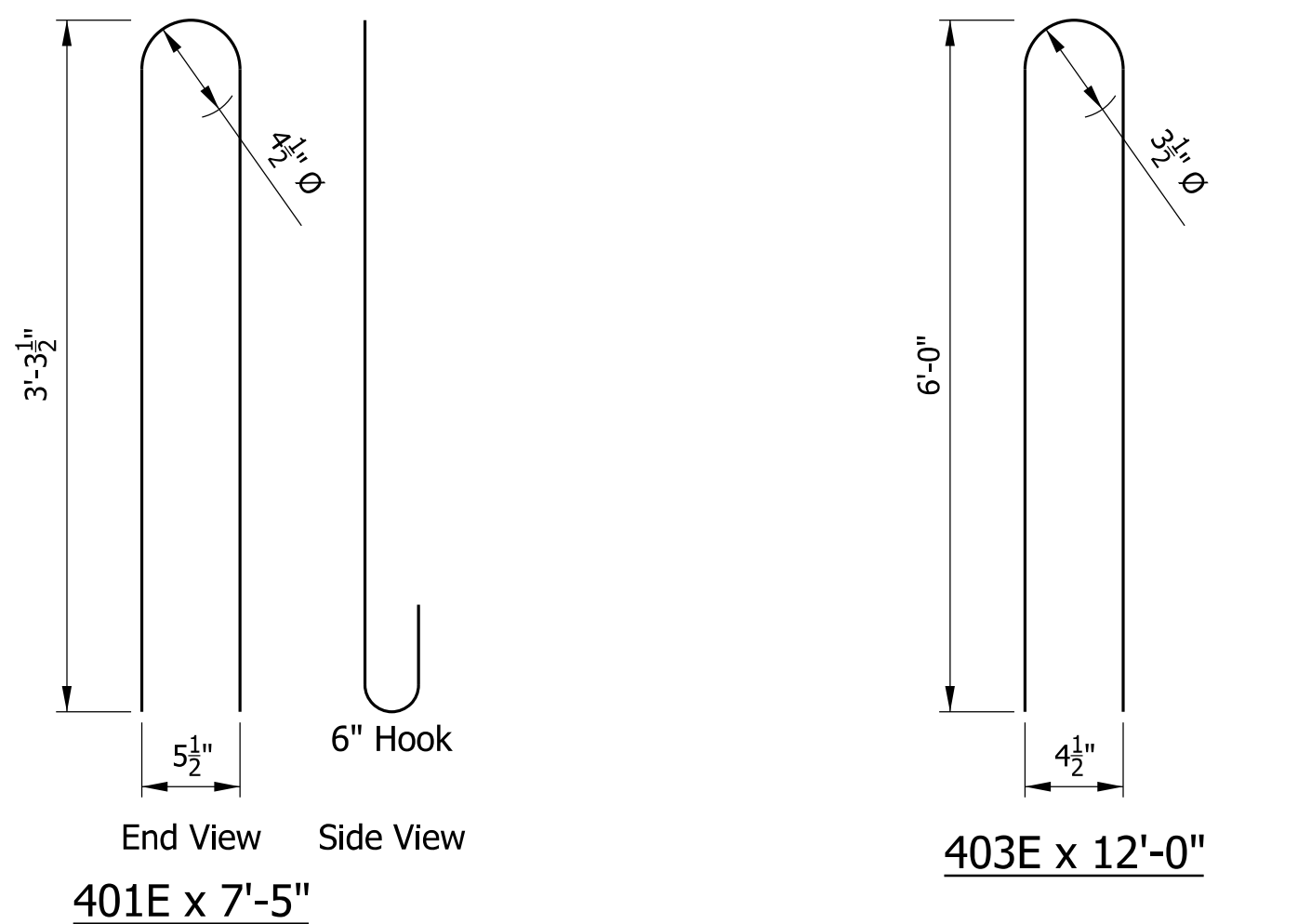
Show the location of all Inserts on the Precast Beam Shop Drawings.  
Submit Shop Drawings for the Steel Diaphragms to the Engineer.

DIAPHRAGMS:

Install the Diaphragms the same day that the Precast Beams are placed.



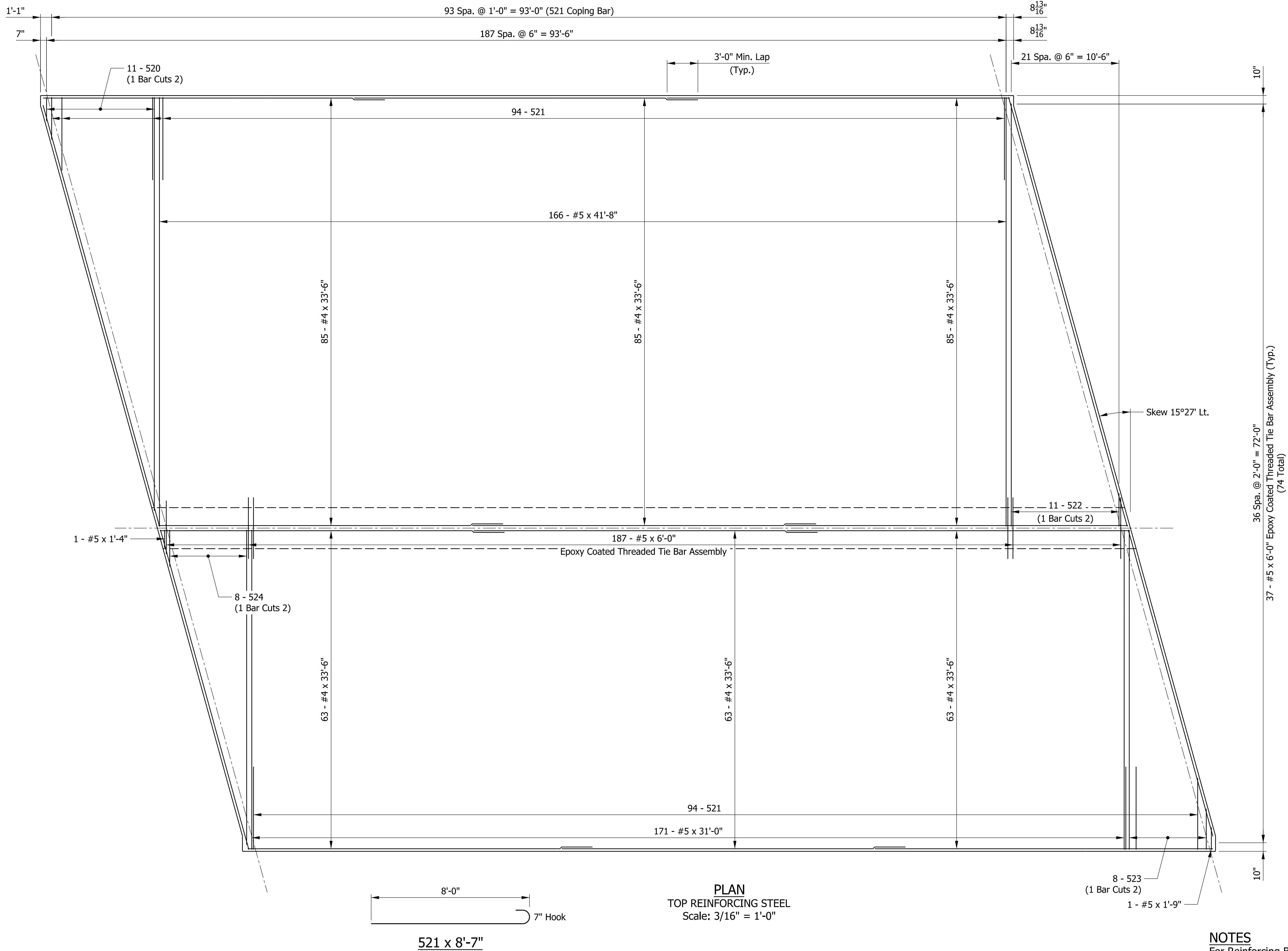
END BLOCK DETAIL - BENT NO. 1  
Bent No. 2 Same by 180° Rotation  
Scale: 1" = 1'-0"



### EMBEDDED BEARING PLATE DETAILS

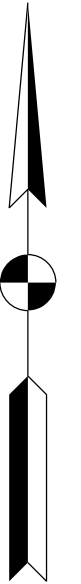
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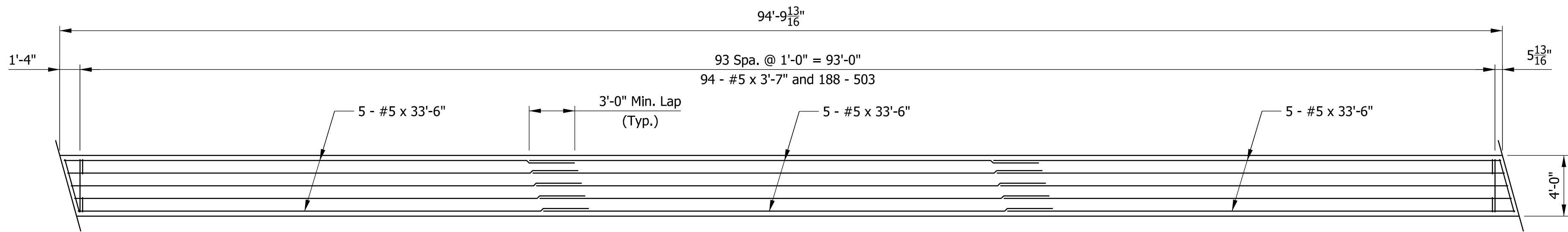


**NOTES**  
For Reinforcing Bar Notes, see INDOT Standard E703-BRST-01.  
All Reinforcing Steel to be Epoxy Coated.

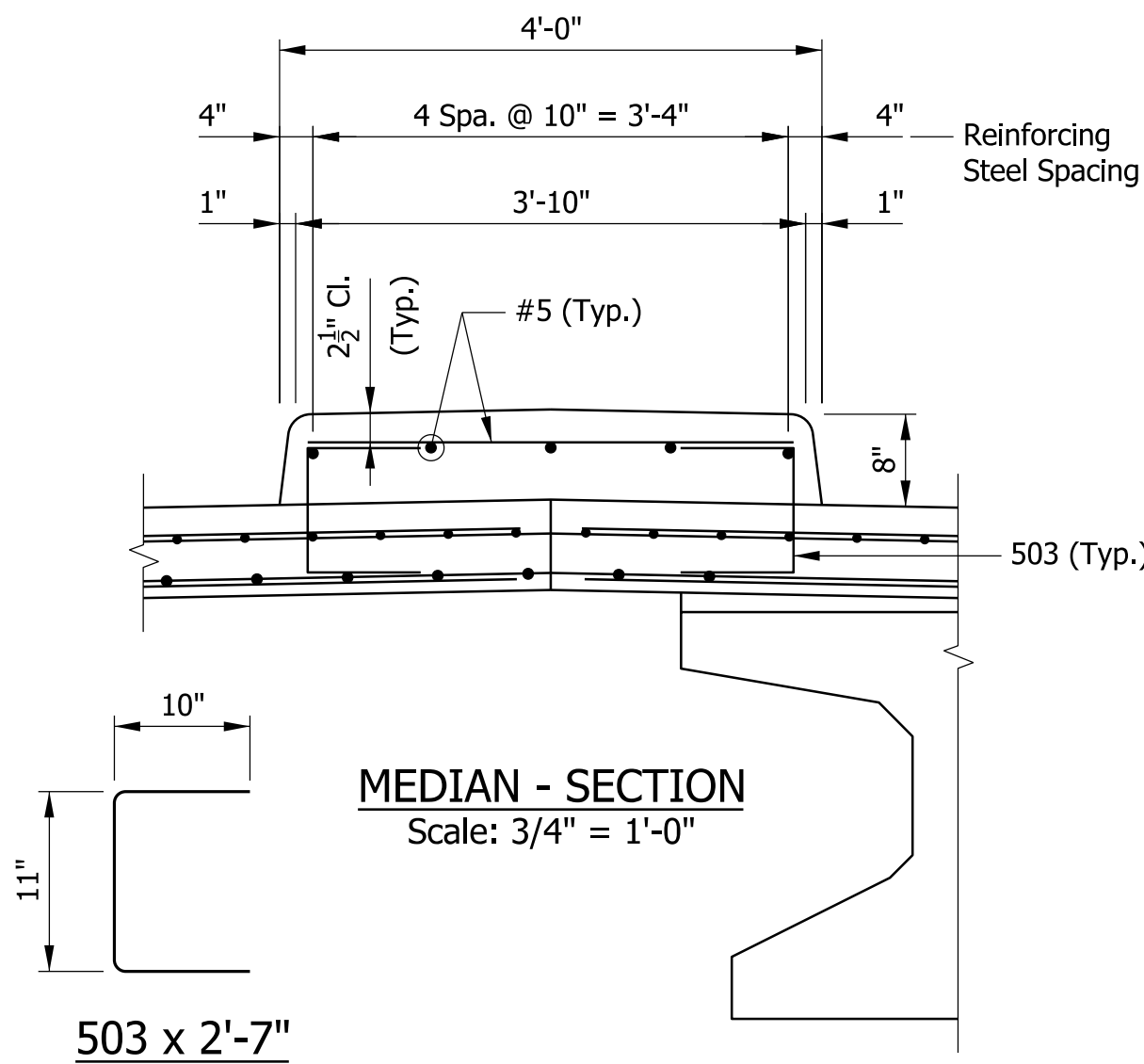
DATE	REVISION				RECOMMENDED FOR APPROVAL	INDIANA DEPARTMENT OF TRANSPORTATION			BRIDGE FILE				
									JOHNSON 602				
									DESIGNATION				
									1801455				
						DESIGNED: RJZ	DRAWN: ESC	SUPERSTRUCTURE DETAILS		SURVEY BOOK		SHEETS	
										41		of	82
						CHECKED: HNG	CHECKED: RJZ			CONTRACT		PROJECT	
								B-41320		1801455			



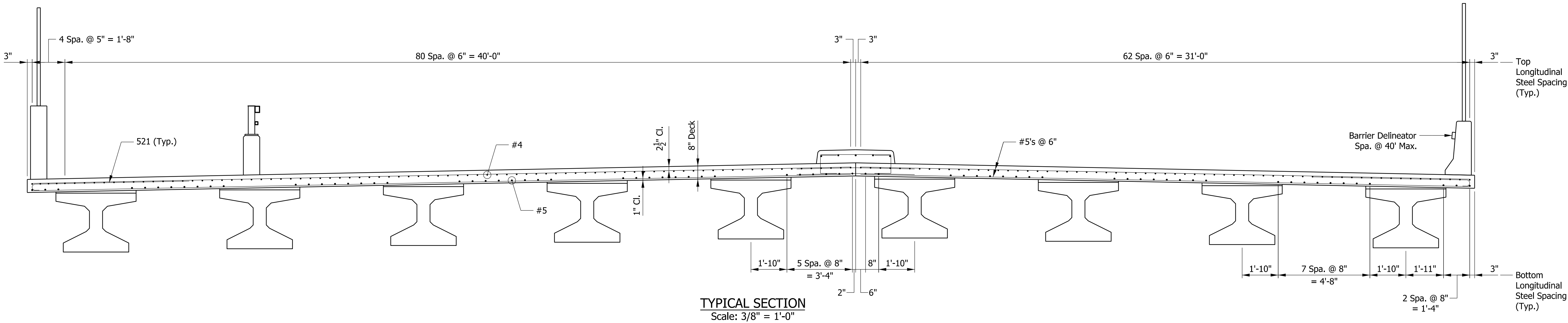
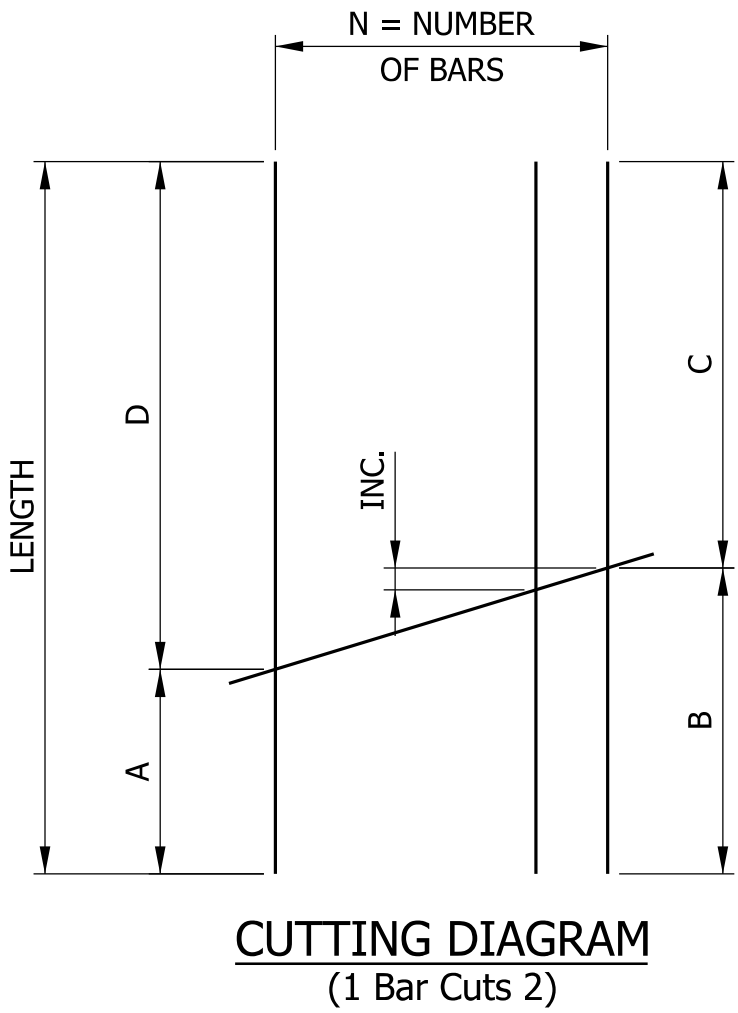




MEDIAN - PLAN VIEW  
Scale: 3/16" = 1'-0"



BAR CUTTING TABLE - SUPERSTRUCTURE							
MARK	LENGTH	A	B	C	D	INC.	N
520	41'-11"	2'-0"	20'-1"	21'-10"	39'-11"	21 11/16"	11
522	43'-8"	2'-10"	20'-11"	22'-9"	40'-10"	21 11/16"	11
523	34'-4"	3'-7"	16'-3"	18'-1"	30'-9"	21 3/4"	8
524	33'-6"	3'-2"	15'-10"	17'-8"	30'-4"	21 3/4"	8
525	41'-11"	2'-0"	20'-1"	21'-10"	39'-11"	21 11/16"	11
526	43'-8"	2'-10"	20'-11"	22'-9"	40'-10"	21 11/16"	11
527	34'-4"	3'-7"	16'-3"	18'-1"	30'-9"	21 3/4"	8
528	33'-6"	3'-2"	15'-10"	17'-8"	30'-4"	21 3/4"	8

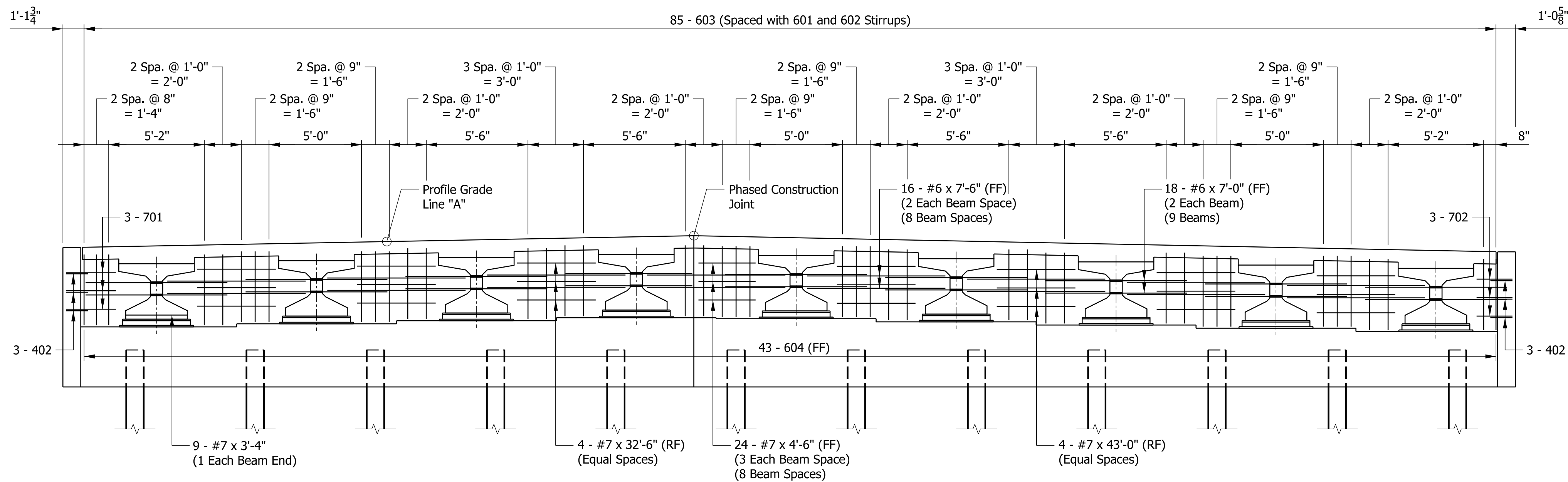


NOTES  
For Reinforcing Bar Notes, see INDOT Standard E703-BRST-01.  
All Reinforcing Steel to be Epoxy Coated.

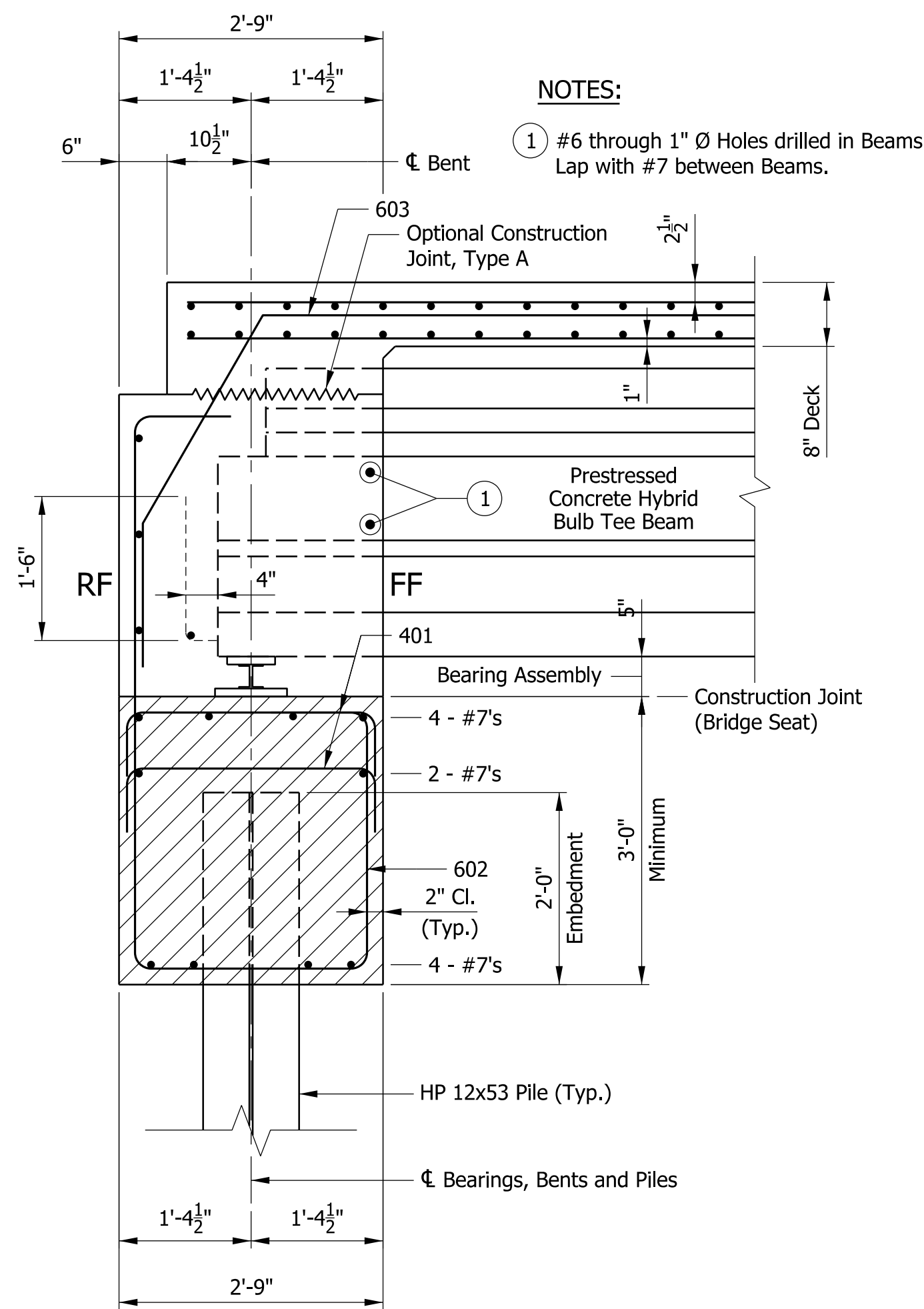
DATE	REVISION			RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE
									JOHNSON 602
									DESIGNATION
									1801455
									SHEETS
									43 of 82
									PROJECT
									1801455

DESIGNED: RJZ	DRAWN: ESC
CHECKED: HNG	CHECKED: RJZ

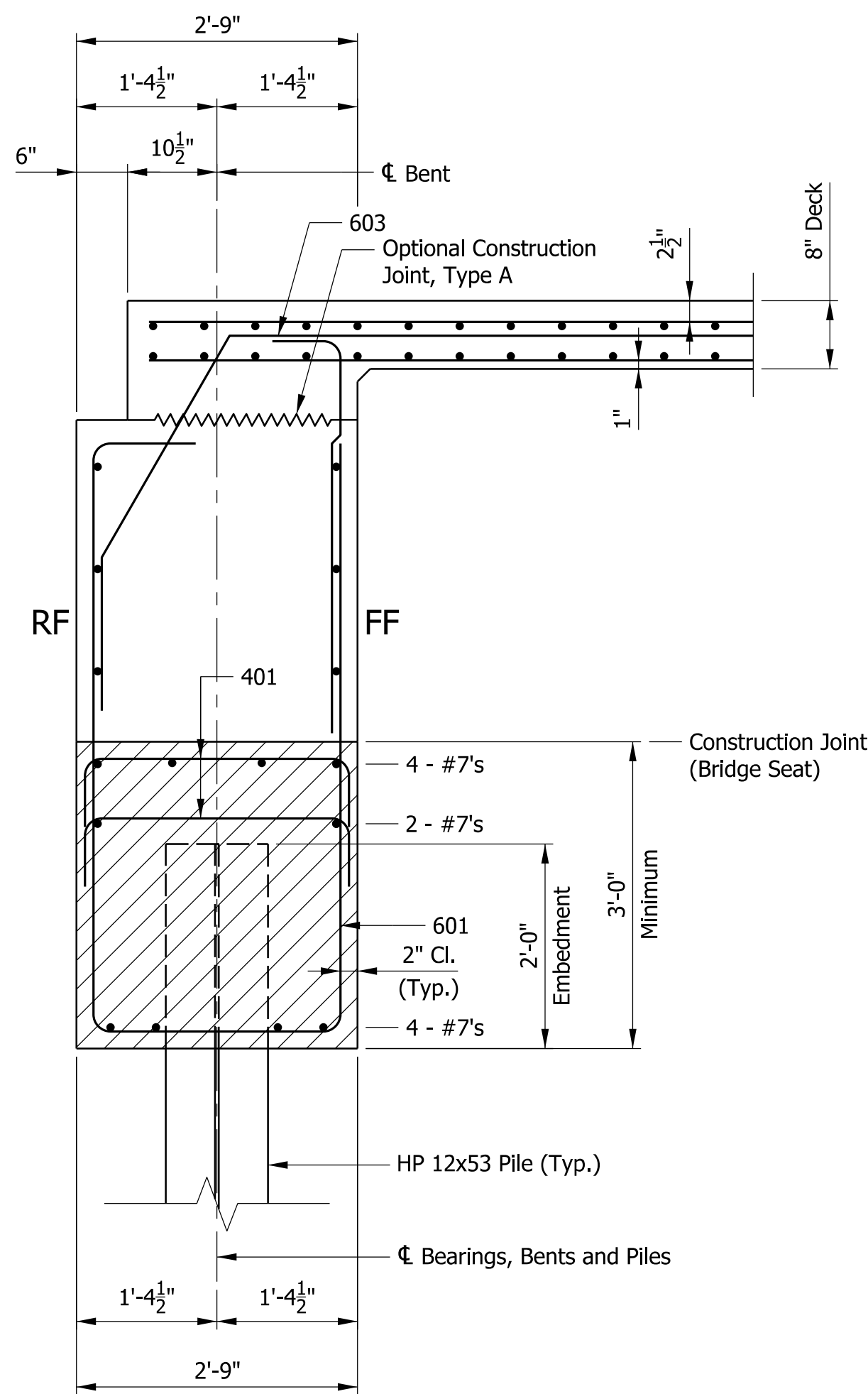
SUPERSTRUCTURE DETAILS	
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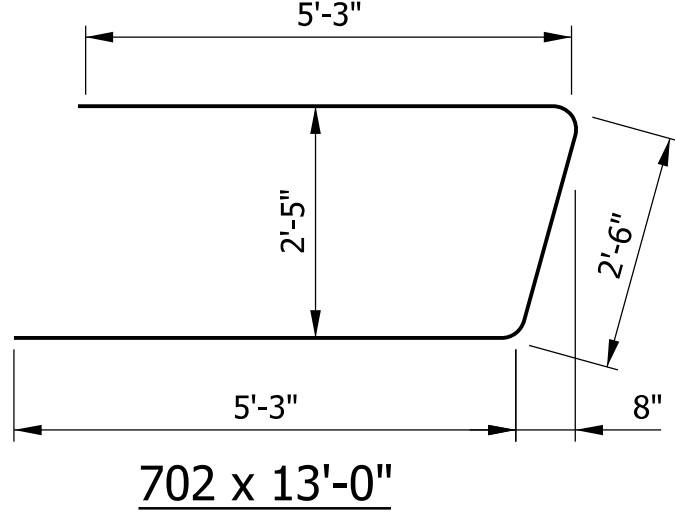
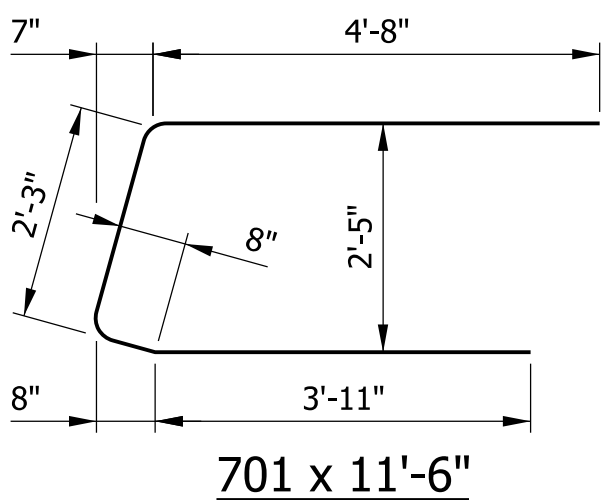
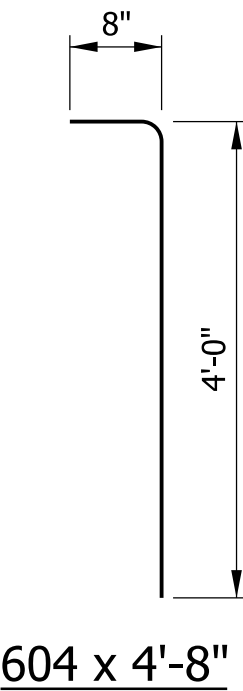
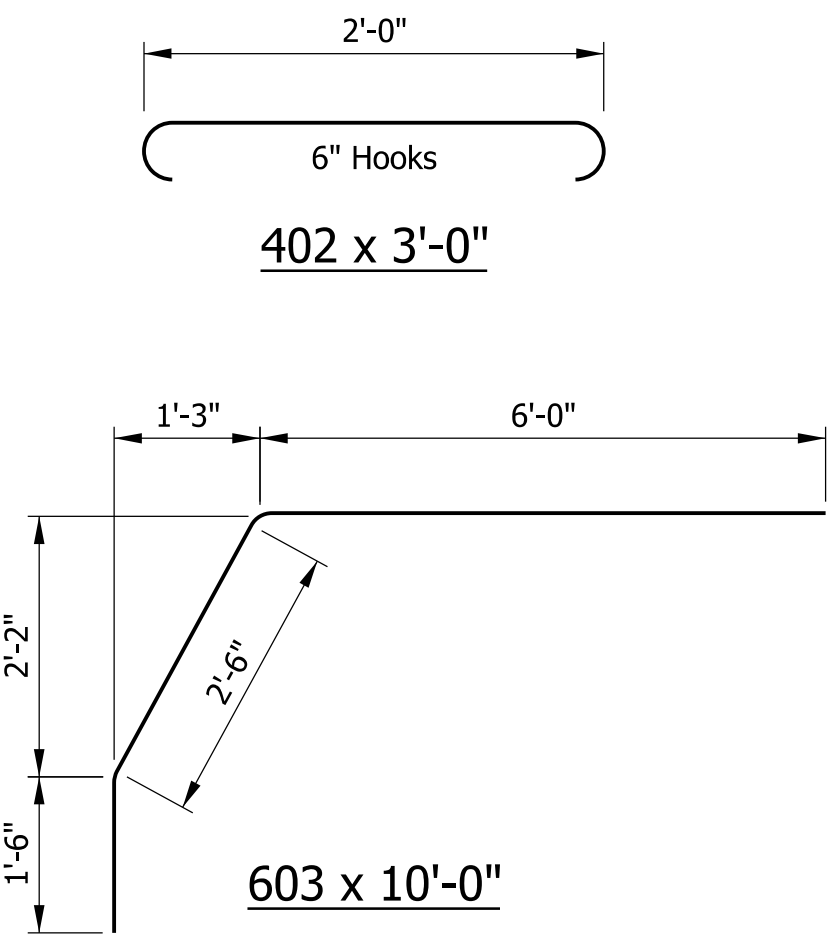
ELEVATION AT BENT NO. 1  
(Bent No. 2 Same by 180° Rotation)  
Scale: 1/4" = 1'-0"



SECTION AT BEAM  
Scale: 3/4" = 1'-0"



SECTION BETWEEN BEAMS  
Scale: 3/4" = 1'-0"



NOTES  
For Reinforcing Bar Notes, see INDOT Standard E703-BRST-01.

All Reinforcing Steel to be Epoxy Coated.

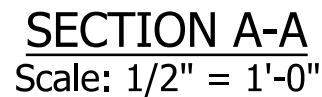
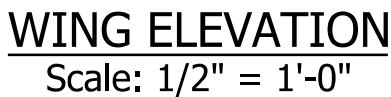
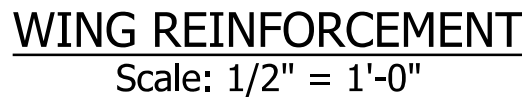
(FF) Front Face, (RF) Rear Face, (EF) Each Face.

Hatched Area to be poured with Substructure.

DATE	REVISION			RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE
									JOHNSON 602
									DESIGNATION
									1801455
									SHEETS
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									PROJECT
									1801455

DESIGNED: RJZ	DRAWN: ESC	SUPERSTRUCTURE DETAILS	
CHECKED: HNG	CHECKED: RJZ		





WING	ELEVATION A	ELEVATION B	A	B	C
A	853.38	853.33	7'-2 7/16"	7'-1 13/16"	10'-0"
B	853.62	853.62	7'-5 1/6"	7'-4 15/16"	10'-0"
C	852.86	852.70	6'-8 5/16"	6'-6 3/8"	10'-0"
D	852.71	852.50	6'-7 1/4"	6'-4 7/8"	10'-0"

BILL OF MATERIAL SUPERSTRUCTURE			
EPOXY COATED REINFORCING STEEL			
SIZE and MARK	NO. of BARS	LENGTH	WEIGHT (LBS)
701	3	11'-6"	
702	3	13'-0"	
#7	4	43'-0"	
#7	4	32'-6"	
#7	24	4'-6"	
#7	9	3'-4"	
		TOTAL #7	1050
603	85	10'-0"	
604	43	4'-8"	
#6	16	7'-6"	
#6	18	7'-0"	
		TOTAL #6	1948
503	188	2'-7"	
520	11	41'-11"	
521	188	8'-7"	
522	11	43'-8"	
523	8	34'-4"	
524	8	33'-6"	
525	11	41'-11"	
526	11	43'-8"	
527	8	34'-4"	
528	8	33'-6"	
#5	332	41'-8"	
#5	210	34'-0"	
#5	15	33'-6"	
#5	342	31'-0"	
#5	32	9'-6"	
#5	10	6'-11"	
#5	10	6'-8"	
#5	10	6'-2"	
#5	10	6'-1"	
#5	94	3'-7"	
#5	2	1'-9"	
#5	2	1'-4"	
		TOTAL #5	39688
402	6	3'-0"	
#4	444	33'-6"	
		TOTAL #4	9948
TOTAL EPOXY COATED REINFORCING STEEL			52634

CONCRETE	
CLASS C IN SUPERSTRUCTURE	
BENT NO. 1	25.9 CYS
BENT NO. 2	25.9 CYS
DECK	195.8 CYS
WINGWALLS	10.5 CYS
TOTAL CLASS C IN SUPERSTRUCTURE	258.1 CYS
MISCELLANEOUS	
CONCRETE STRUCTURAL MEMBERS	846 LFT
#5 x 6'-0" THREADED TIE BAR ASSY, EPOXY CTD	374 EACH
BARRIER DELINEATOR	8 EACH
SURFACE SEAL	9129 SFT

**NOTES**  
For Reinforcing Bar Notes, see INDOT Standard E703-BRST-01.

All Reinforcing Steel to be Epoxy Coated.

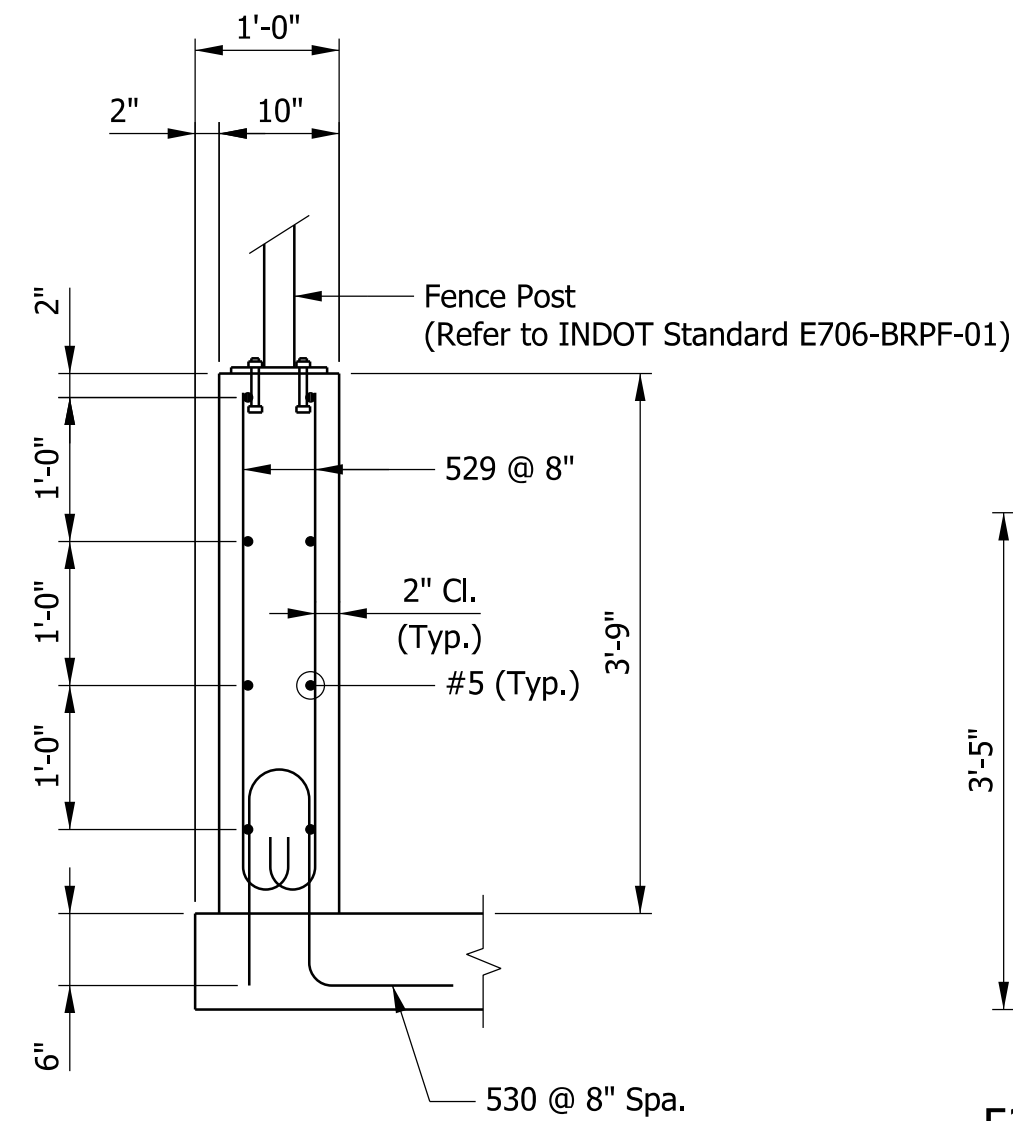
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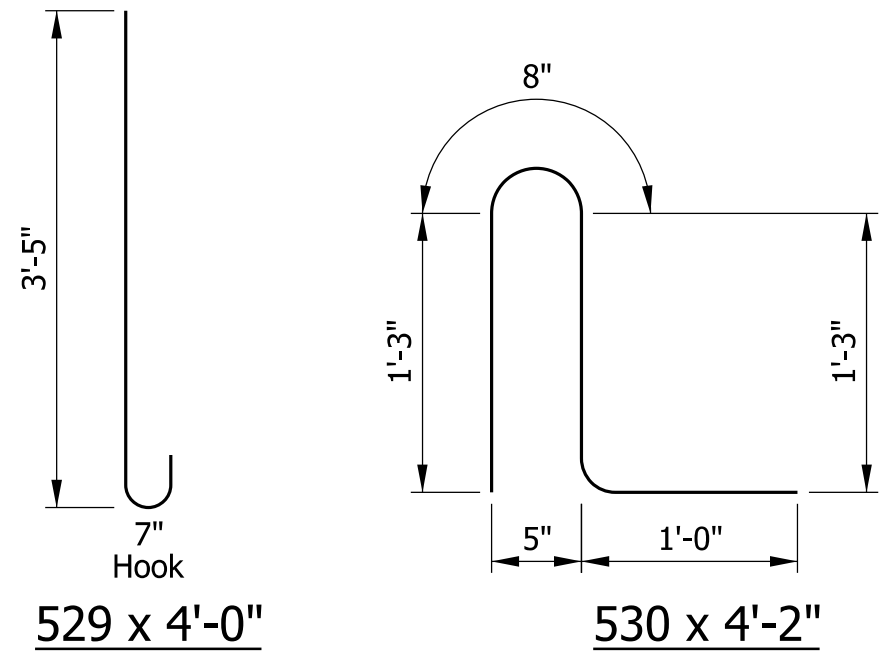


(FF) Front Face, (RF) Rear Face, (EF) Each Face.

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NORTH BRIDGE RAIL SECTION  
Scale: 3/4" = 1'-0"



BILL OF MATERIAL BRIDGE RAILING (NORTH RAIL)			
EPOXY COATED REINFORCING STEEL			
SIZE and MARK	NO. of BARS	LENGTH	WEIGHT (LBS)
529	410	4'-0"	
530	143	4'-2"	
#5	24	34'-0"	
#5	16	19'-6"	
TOTAL EPOXY COATED REINFORCING STEEL			3508
CONCRETE			
RAILING, CONCRETE (FT MODIFIED)			134.8 LFT
MISCELLANEOUS			
BRIDGE RAILING PEDESTRIAN FENCE			134.8 LFT

BILL OF MATERIAL BRIDGE RAILING (MIDDLE RAIL)			
EPOXY COATED REINFORCING STEEL			
SIZE and MARK	NO. of BARS	LENGTH	WEIGHT (LBS)
4703E	143	3'-11"	
4707E	286	3'-10"	
#4	24	33'-3"	
TOTAL EPOXY COATED REINFORCING STEEL			1640
CONCRETE			
RAILING, CONCRETE PF-1			94.8 LFT
STEEL RAILING			
RAILING, STEEL (PF-1)			103.3 LFT

BILL OF MATERIAL BRIDGE RAILING (SOUTH RAIL)			
EPOXY COATED REINFORCING STEEL			
SIZE and MARK	NO. of BARS	LENGTH	WEIGHT (LBS)
5701E	143	5'-6"	
5704E	286	3'-0"	
#5	24	34'-0"	
TOTAL EPOXY COATED REINFORCING STEEL			2567
CONCRETE			
RAILING, CONCRETE FC			94.8 LFT
MISCELLANEOUS			
BRIDGE RAILING PEDESTRIAN FENCE			94.8 LFT

**NOTES**  
For Additional Middle Railing Details, See INDOT Standard E706-BRPP-01 to 05.

For Additional South Railing Details, See INDOT Standard E706-BRSF-01 and 02.

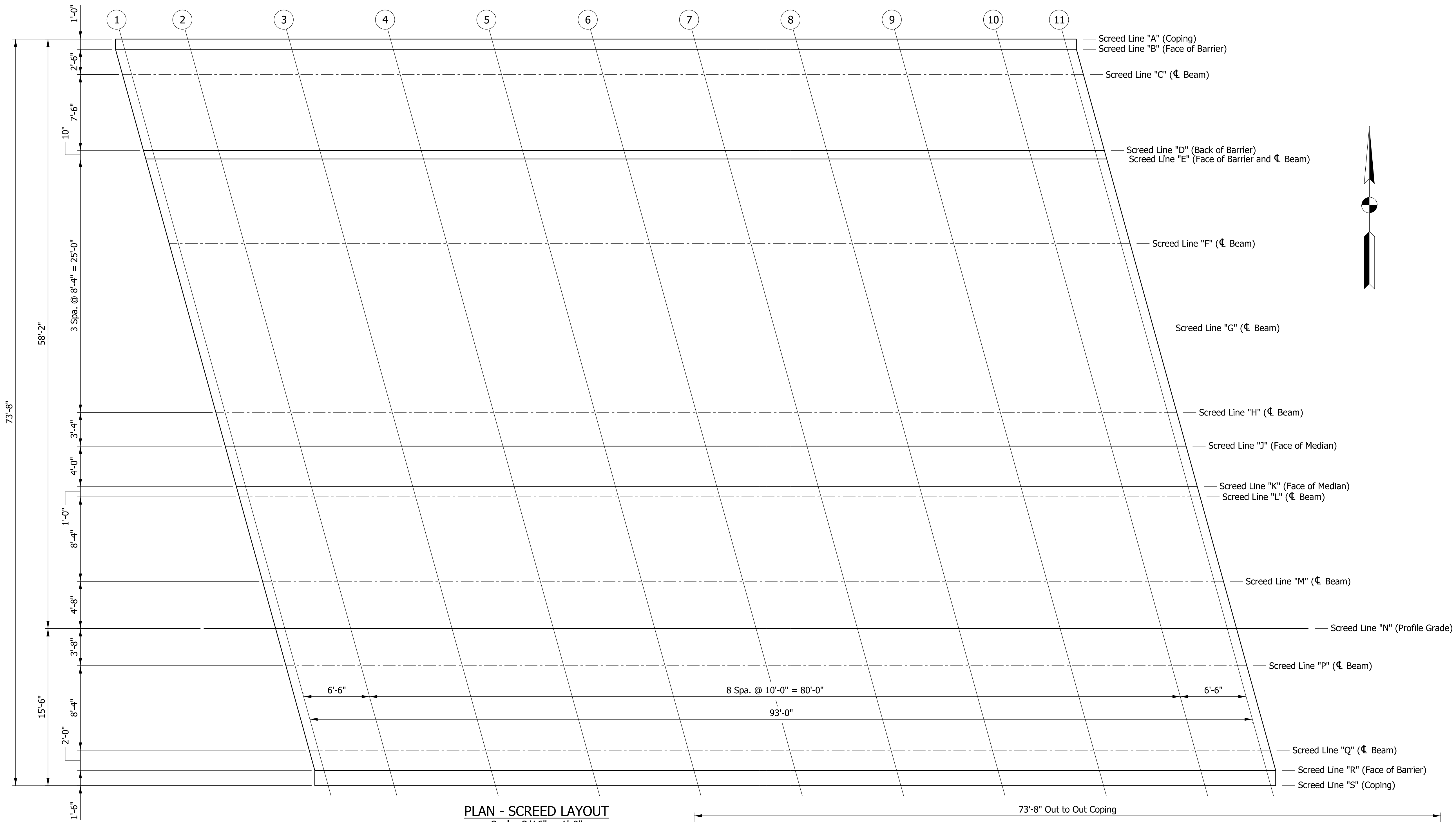
For Bridge Railing Pedestrian Fence Details, See INDOT Standard E706-BRPF-01.

For Reinforcing Bar Notes, see INDOT Standard E703-BRST-01.

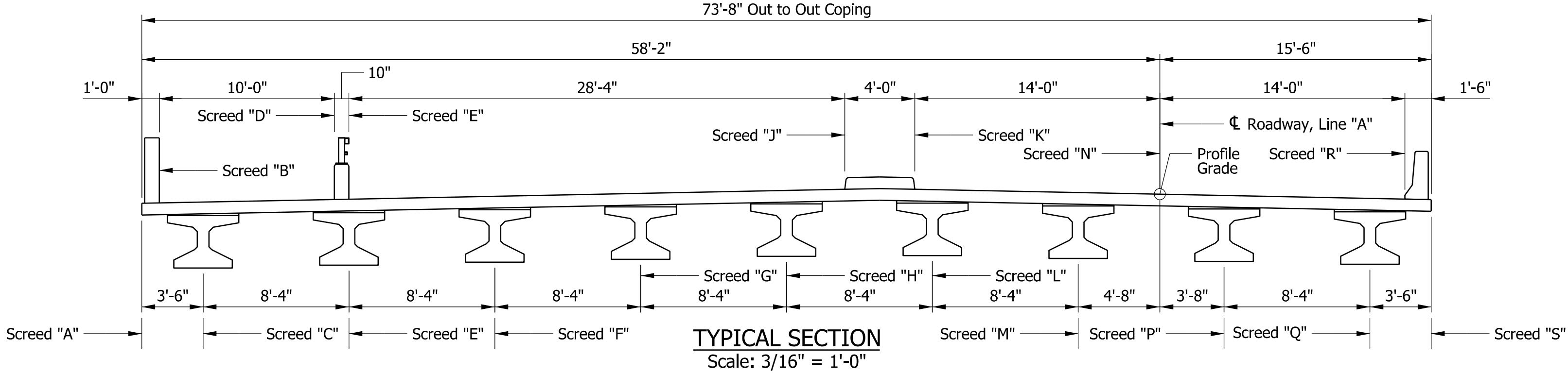
All Reinforcing Steel in Bridge Railing to be Epoxy Coated.

(FF) Front Face, (RF) Rear Face, (EF) Each Face.

DATE	REVISION			RECOMMENDED FOR APPROVAL	INDIANA DEPARTMENT OF TRANSPORTATION			BRIDGE FILE
								JOHNSON 602
								DESIGNATION
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								PROJECT
								1801455



PLAN - SCREED LAYOUT  
Scale: 3/16" = 1'-0"

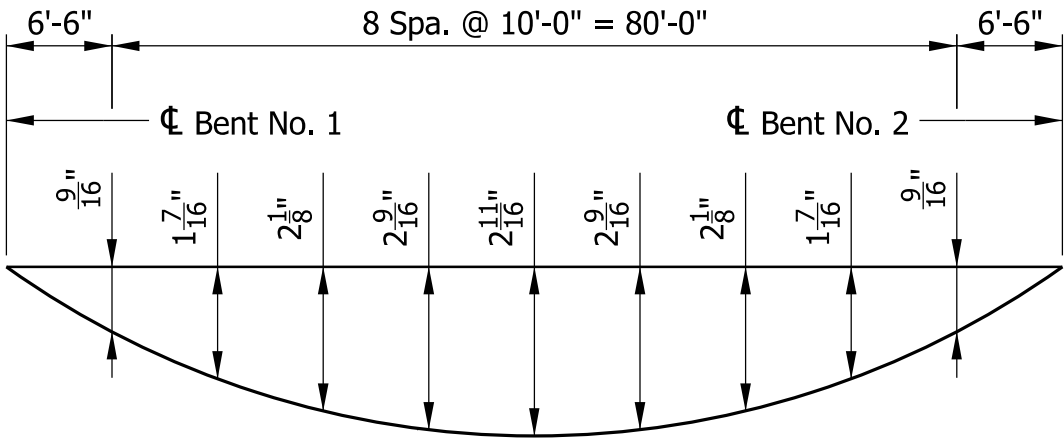


TYPICAL SECTION  
Scale: 3/16" = 1'-0"

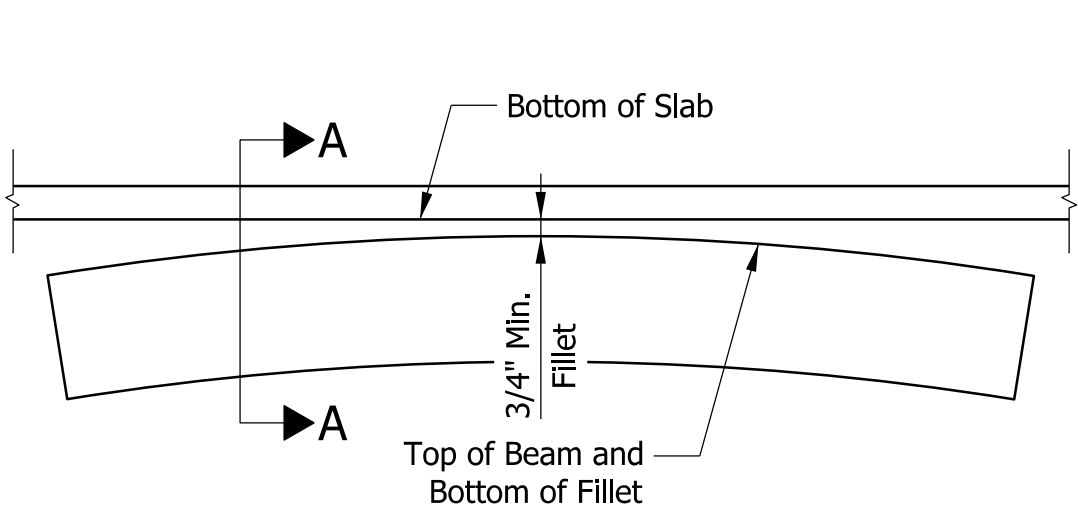
DATE	REVISION					INDIANA DEPARTMENT OF TRANSPORTATION			BRIDGE FILE
									JOHNSON 602
								SCALE	DESIGNATION
								AS NOTED	1801455
								SURVEY BOOK	SHEETS
									48 of 82
								CONTRACT	PROJECT
								B-41320	1801455



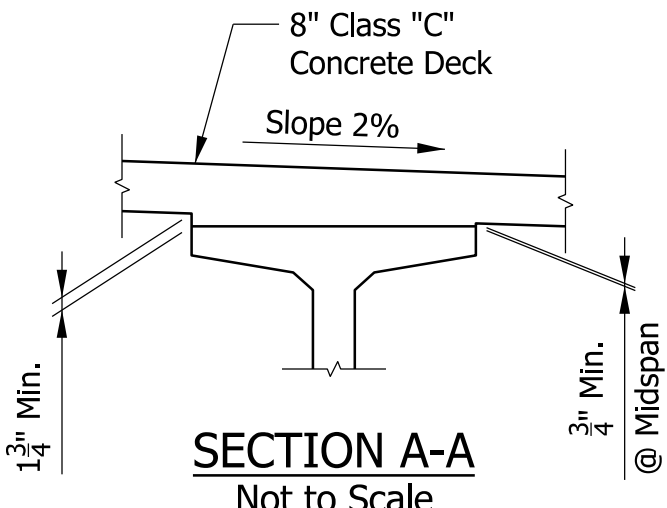
TABLE OF SCREED ELEVATIONS													
POINT			1	2	3	4	5	6	7	8	9	10	11
SCREED LINE	A	Top of Coping Form	853.440	853.510	853.600	853.655	853.665	853.625	853.545	853.415	853.240	853.030	852.880
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	B	Top of Coping Form	853.465	853.535	853.620	853.675	853.685	853.645	853.560	853.430	853.260	853.045	852.900
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	C	Top of Coping Form	853.515	853.585	853.675	853.725	853.730	853.690	853.605	853.475	853.300	853.085	852.935
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	D	Top of Coping Form	853.675	853.740	853.820	853.870	853.870	853.825	853.735	853.600	853.420	853.205	853.050
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	E	Top of Coping Form	853.690	853.755	853.840	853.885	853.885	853.840	853.750	853.615	853.435	853.215	853.065
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	F	Top of Coping Form	853.865	853.925	854.005	854.045	854.040	853.990	853.895	853.755	853.570	853.345	853.190
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	G	Top of Coping Form	854.035	854.095	854.170	854.205	854.195	854.140	854.040	853.895	853.700	853.475	853.315
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	H	Top of Coping Form	854.210	854.265	854.330	854.360	854.350	854.285	854.180	854.030	853.835	853.600	853.440
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	J	Top of Coping Form	854.275	854.330	854.395	854.425	854.410	854.345	854.240	854.085	853.885	853.650	853.485
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	K	Top of Coping Form	854.280	854.330	854.395	854.420	854.400	854.335	854.225	854.070	853.870	853.630	853.465
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	L	Top of Coping Form	854.260	854.310	854.375	854.400	854.380	854.315	854.205	854.045	853.845	853.605	853.440
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	M	Top of Coping Form	854.095	854.145	854.200	854.220	854.195	854.125	854.010	853.850	853.645	853.400	853.230
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	N	Top of Coping Form	854.000	854.050	854.105	854.120	854.095	854.020	853.905	853.735	853.530	853.280	853.110
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	P	Top of Coping Form	853.930	853.975	854.030	854.040	854.015	853.935	853.815	853.650	853.440	853.190	853.015
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	Q	Top of Coping Form	853.765	853.805	853.855	853.865	853.830	853.745	853.625	853.450	853.235	852.980	852.805
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	R	Top of Coping Form	853.725	853.765	853.810	853.820	853.785	853.700	853.575	853.400	853.185	852.930	852.750
		Top of Exterior Beam											
		Top of Beam to Top of Coping											
	S	Top of Coping Form	853.695	853.735	853.780	853.785	853.750	853.665	853.540	853.365	853.145	852.890	852.715
		Top of Exterior Beam											
		Top of Beam to Top of Coping											



CONCRETE DEAD LOAD DEFLECTIONS  
Not to Scale



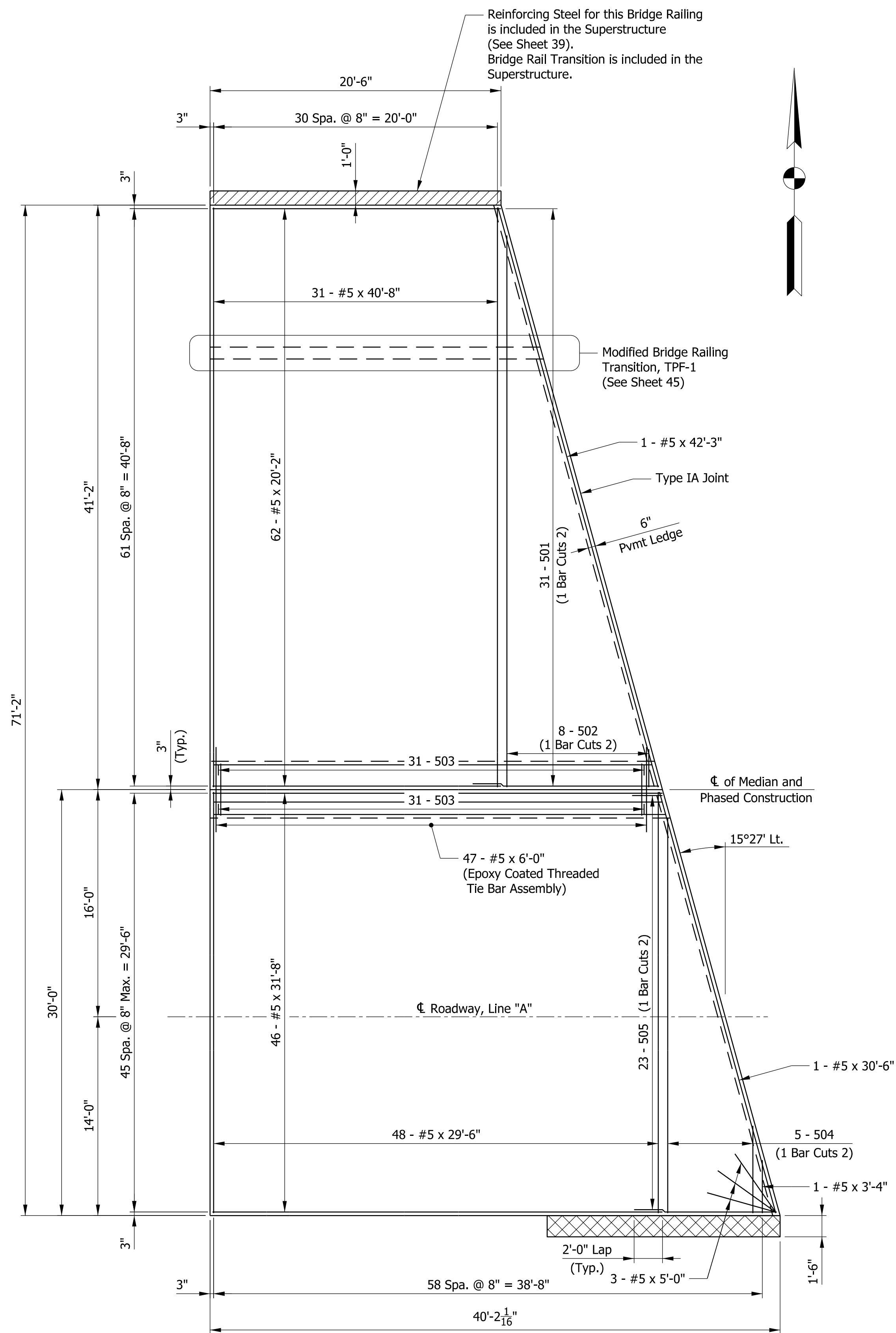
BEAM ELEVATION  
Not to Scale



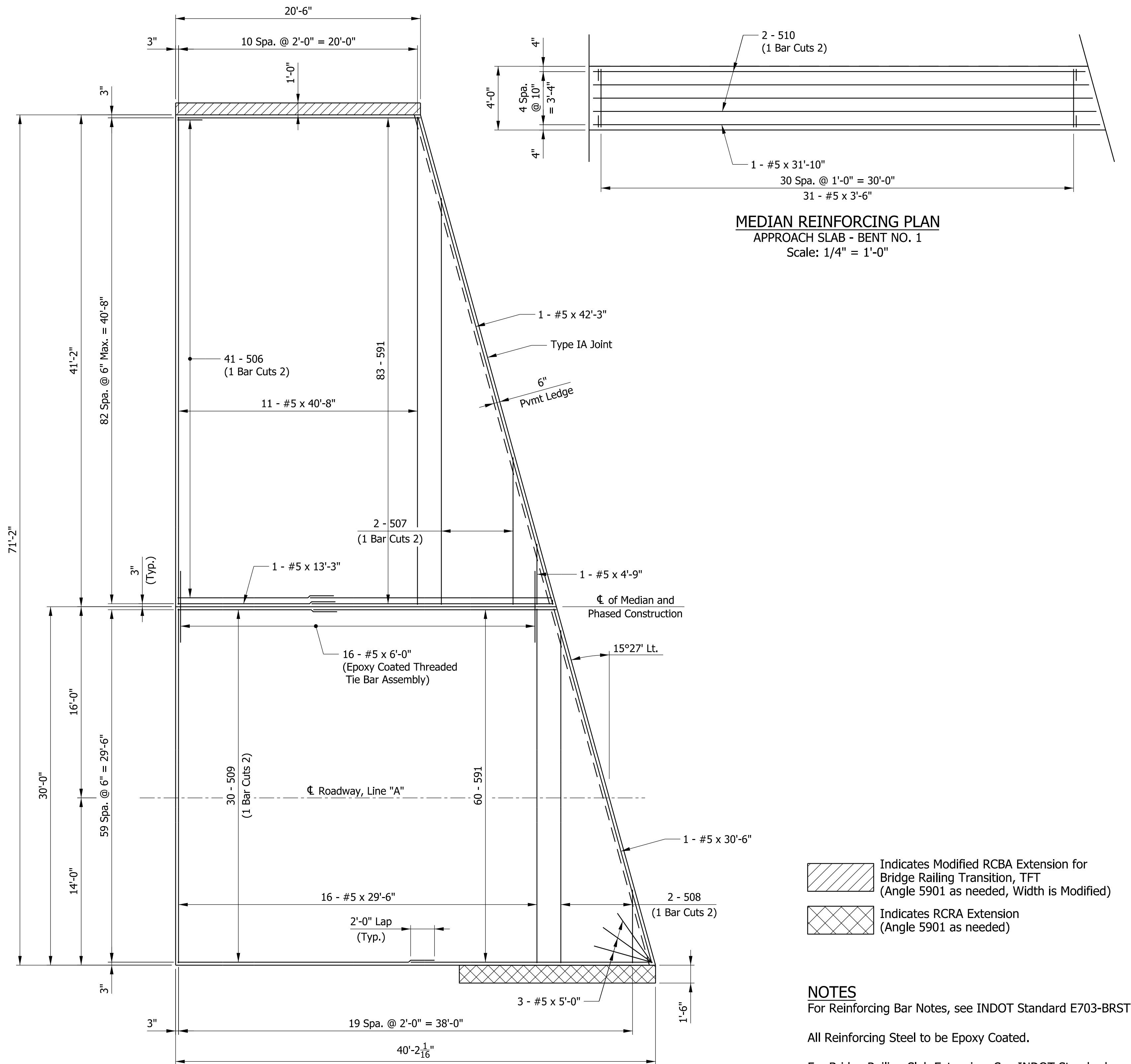
**NOTE**  
Bridge Seat Elevations were calculated using Design Camber and Dead Load Deflection of Slab (Residual Beam Camber) with Top of Beam at a minimum of 3/4" below the Bottom of Slab Elevation at Centerline of Span.


DATE	REVISION				RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	BRIDGE FILE JOHNSON 602 DESIGNATION 1801455	
				DESIGNED: RJZ	DRAWN: ESC		SCREED DETAILS	SURVEY BOOK		
				CHECKED: HNG	CHECKED: RJZ			SHEETS 49 of 82		
								PROJECT B-41320		
								1801455		






APPROACH SLAB PLAN - BENT NO. 1  
TOP REINFORCING STEEL  
Scale: 3/16" = 1'-0"



 Indicates Modified RCBA Extension for Bridge Railing Transition, TFT (Angle 5901 as needed, Width is Modified)

 Indicates RCRA Extension (Angle 5901 as needed)

## NOTES

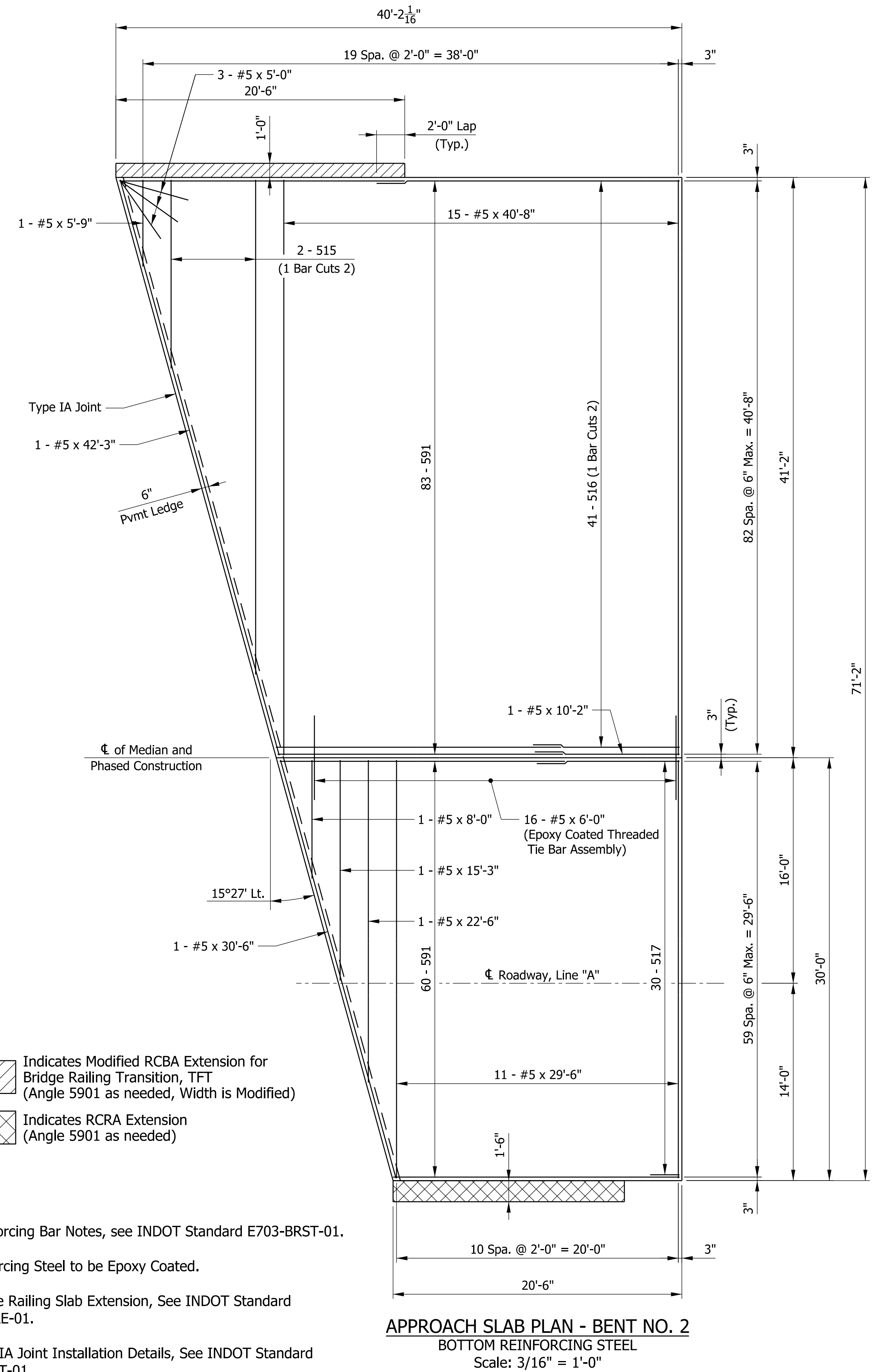
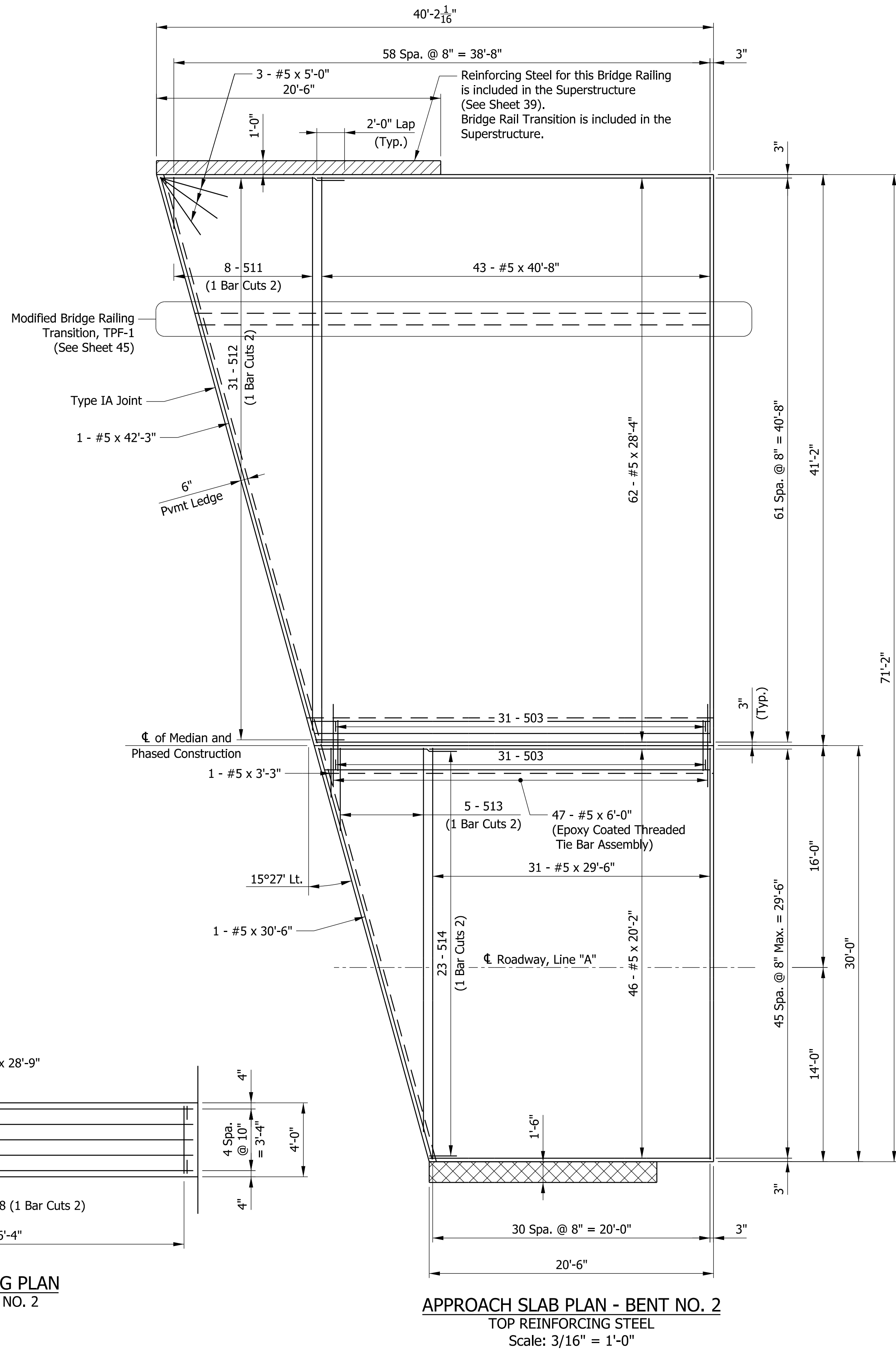
For Reinforcing Bar Notes, see INDOT Standard E703-BRST-01.

All Reinforcing Steel to be Epoxy Coated.

For Bridge Railing Slab Extension, See INDOT Standard E609-TBAE-01.

For Type IA Joint Installation Details, See INDOT Standard E609-BRJT-01.

[illegible]



- Indicates Modified RCBA Extension for Bridge Railing Transition, TFT (Angle 5901 as needed, Width is Modified)
- Indicates RCRA Extension (Angle 5901 as needed)

**NOTES**  
For Reinforcing Bar Notes, see INDOT Standard E703-BRST-01.

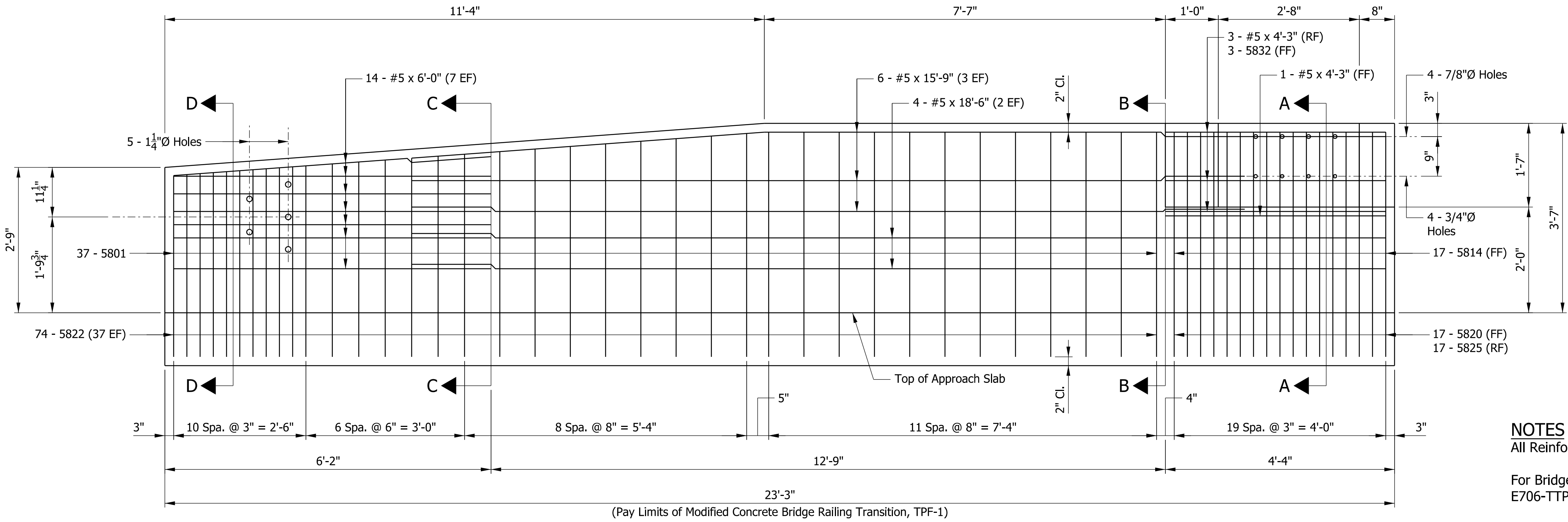
All Reinforcing Steel to be Epoxy Coated.

For Bridge Railing Slab Extension, See INDOT Standard E609-TBAE-01.

For Type IA Joint Installation Details, See INDOT Standard E609-BRJT-01.

DATE	REVISION			RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	BRIDGE FILE
								JOHNSON 602
								DESIGNATION
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								1801455





MODIFIED CONCRETE BRIDGE  
RAILING TRANSITION, TPF-1  
ELEVATION - BENT NO. 1  
Scale: 3/4" = 1'-0"

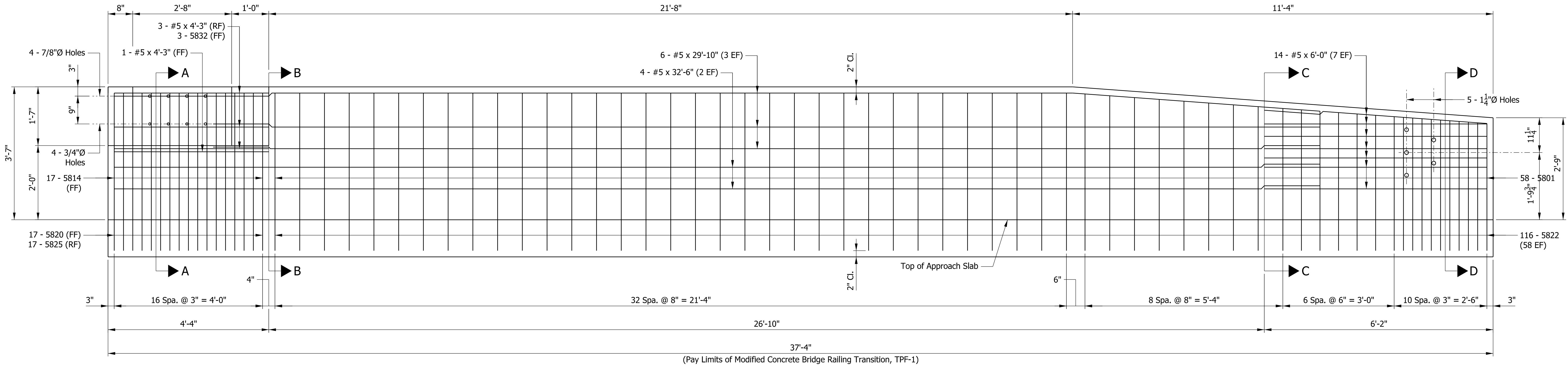
**NOTES**  
All Reinforcing Steel to be Epoxy Coated.

For Bridge Railing Transition, TPF-1, see INDOT Standard E706-TTPP-01 to 03.

For Reinforcing Bar notes, see INDOT Standard E703-BRST-01.

For Sections A-A, B-B, C-C and D-D, see INDOT Standard E706-TTPP-03.

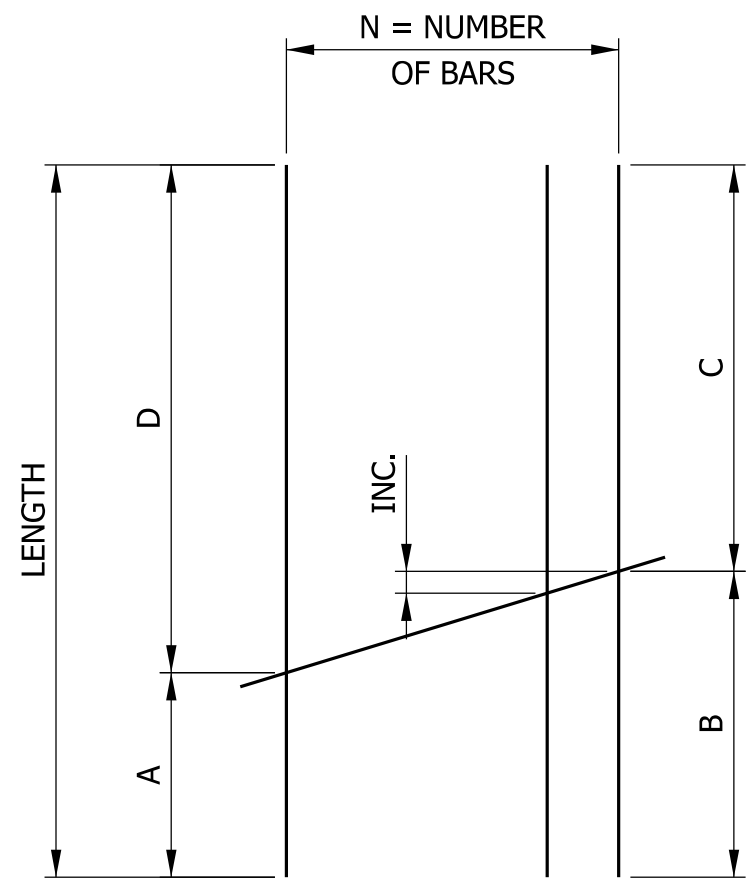
(FF) Front Face, (RF) Rear Face, (EF) Each Face.



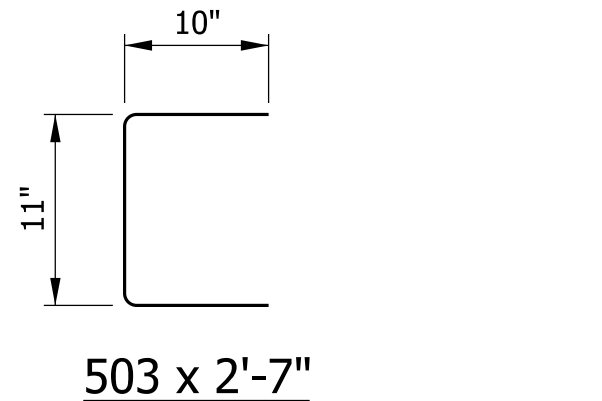
MODIFIED CONCRETE BRIDGE  
RAILING TRANSITION, TPF-1  
ELEVATION - BENT NO. 2  
Scale: 3/4" = 1'-0"

DATE	REVISION					INDIANA DEPARTMENT OF TRANSPORTATION			BRIDGE FILE
									JOHNSON 602
								SCALE	DESIGNATION
								AS NOTED	1801455
								SURVEY BOOK	SHEETS
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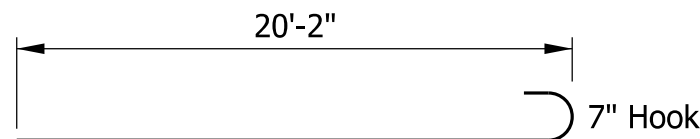




CUTTING DIAGRAM  
(1 Bar Cuts 2)

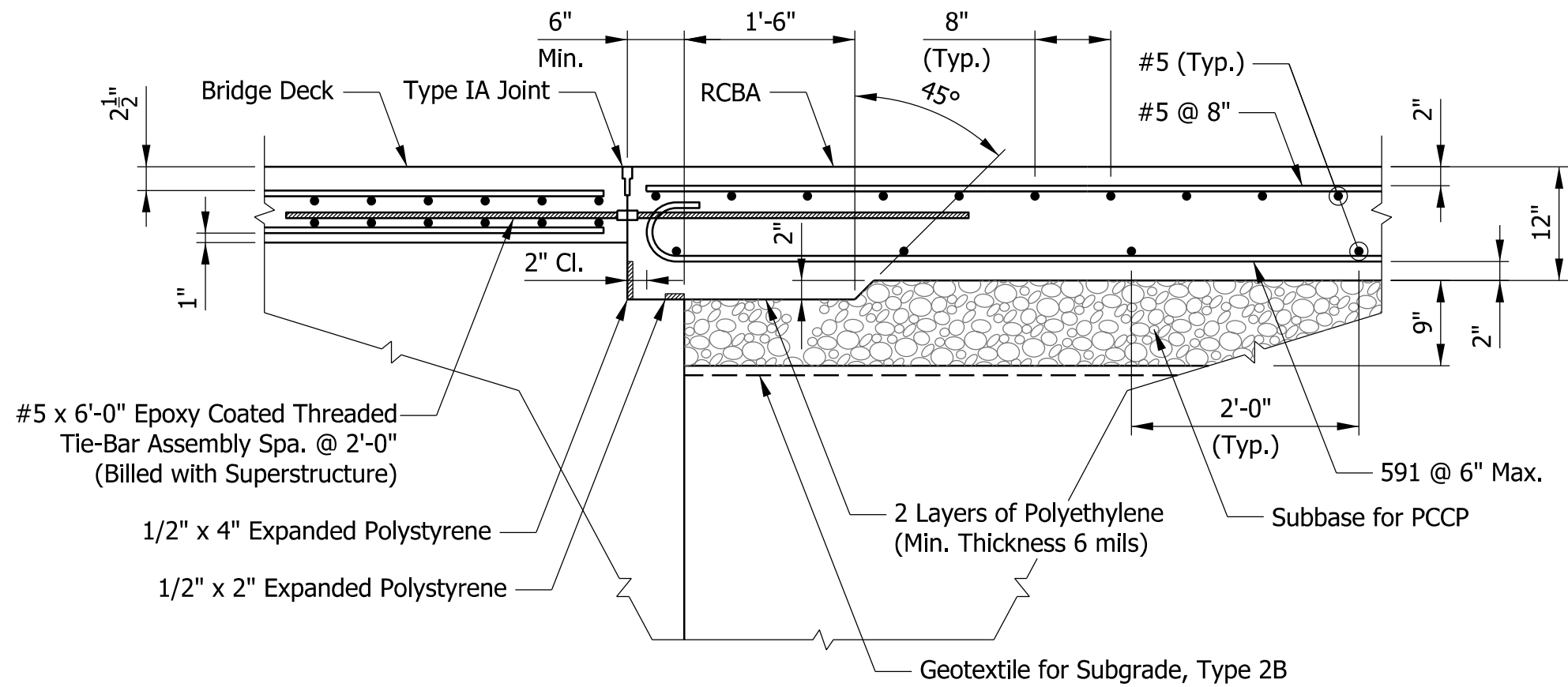


591 x 20'-9"



BAR CUTTING TABLE - BENT NO. 1							
MARK	LENGTH	A	B	C	D	INC.	N
501	15'-0"	2'-0"	7'-5"	7'-7"	13'-0"	2 3/16"	31
502	40'-9"	2'-3"	19'-2"	21'-7"	38'-6"	29"	8
504	33'-3"	5'-9"	15'-5"	17'-10"	27'-6"	29"	5
505	12'-0"	2'-0"	5'-11"	6'-1"	10'-0"	2 1/8"	23
506	15'-0"	2'-0"	7'-5"	7'-7"	13'-0"	1 5/8"	41
507	45'-8"	12'-0"	19'-3"	26'-5"	33'-8"	86 11/16"	2
508	33'-3"	5'-9"	13'-0"	20'-3"	27'-6"	87"	2
509	34'-8"	13'-3"	17'-3"	17'-5"	21'-5"	1 11/16"	30
510	62'-5"	30'-10"	31'-1"	31'-4"	31'-7"	3"	2

BAR CUTTING TABLE - BENT NO. 2							
MARK	LENGTH	A	B	C	D	INC.	N
511	42'-10"	3'-4"	20'-3"	22'-7"	39'-6"	28 15/16"	8
512	15'-3"	2'-0"	7'-6"	7'-9"	13'-3"	2 3/16"	31
513	35'-1"	5'-7"	16'-3"	18'-10"	29'-6"	31 7/8"	5
514	12'-0"	2'-0"	5'-11"	6'-1"	10'-0"	2 1/8"	23
515	47'-9"	13'-0"	20'-3"	27'-6"	34'-9"	87"	2
516	31'-9"	10'-4"	15'-10"	15'-11"	21'-5"	1 5/8"	41
517	12'-0"	2'-0"	5'-11"	6'-1"	10'-0"	1 5/8"	30
518	56'-3"	27'-9"	28'-0"	28'-3"	28'-6"	3"	2



PAVEMENT LEDGE DETAIL  
Scale: 3/4" = 1'-0"

BILL OF MATERIAL APPROACH SLAB - BENT NO. 1			
EPOXY COATED REINFORCING STEEL			
SIZE and MARK	NO. of BARS	LENGTH	WEIGHT (LBS)
501	31	15'-0"	
502	8	40'-9"	
503	62	2'-7"	
504	5	33'-3"	
505	23	12'-0"	
506	41	15'-0"	
507	2	45'-8"	
508	2	33'-3"	
509	30	34'-8"	
510	2	62'-5"	
530	31	4'-2"	
591	143	20'-9"	
5801	37	5'-4"	
5814	17	3'-0"	
5820	17	3'-1"	
5822	74	3'-7"	
5825	17	4'-8"	
5832	3	4'-3"	
#5	2	42'-3"	
#5	42	40'-8"	
#5	1	31'-10"	
#5	46	31'-8"	
#5	2	30'-6"	
#5	64	29'-6"	
#5	62	20'-2"	
#5	4	18'-6"	
#5	6	15'-9"	
#5	1	13'-3"	
#5	14	6'-0"	
#5	6	5'-0"	
#5	1	4'-9"	
#5	4	4'-3"	
#5	31	3'-6"	
#5	1	3'-4"	
TOTAL #5			14597
1 BRIDGE RAILING TRANSITION (SOUTH)			551
1 APPROACH SLAB EXTENSION (SOUTH)			269
1 APPROACH SLAB EXTENSION (NORTH)			333
TOTAL EPOXY COATED REINFORCING STEEL			15750

MISCELLANEOUS	
REINFORCED CONCRETE BRIDGE APPROACH, 1'-0"	244.9 SYS
CONC. BRIDGE RAIL TRANSITION, TPF-1, MODIFIED	1 EACH
CONC. BRIDGE RAIL TRANSITION, TFC	1 EACH
SUBBASE FOR PCCP, 9"	61 CYS
GEOTEXTILE FOR SUBGRADE, TYPE 2B	244.9 SYS
#5 x 6'-0" THREADED TIE BAR ASSY, EPOXY CTD	63 EACH
SURFACE SEAL	2696 SFT

NOTES  
For Reinforcing Bar Notes, see INDOT Standard E703-BRST-01.

All Reinforcing Steel to be Epoxy Coated.

For Type IA Joint Installation Details, see INDOT Standard E609-BRJT-01.

For additional RCBA Details, see INDOT Standards E609-RCBA-01 to 04. The Thickness of the Approach Slab is 1'-0".

BILL OF MATERIAL APPROACH SLAB - BENT NO. 2			
EPOXY COATED REINFORCING STEEL			
SIZE and MARK	NO. of BARS	LENGTH	WEIGHT (LBS)
503	62	2'-7"	
511	8	42'-10"	
512	31	15'-3"	
513	5	35'-1"	
514	23	12'-0"	
515	2	47'-9"	
516	41	31'-9"	
517	30	12'-0"	
518	2	56'-3"	
530	31	4'-2"	
591	143	20'-9"	
5801	58	5'-4"	
5814	17	3'-0"	
5820	17	3'-1"	
5822	116	3'-7"	
5825	17	4'-8"	
5832	3	4'-3"	
#5	2	42'-3"	
#5	58	40'-8"	
#5	4	32'-6"	
#5	2	30'-6"	
#5	6	29'-10"	
#5	42	29'-6"	
#5	1	28'-9"	
#5	62	28'-4"	
#5	1	22'-6"	
#5	46	20'-2"	
#5	1	15'-3"	
#5	1	10'-2"	
#5	1	8'-0"	
#5	14	6'-0"	
#5	1	5'-9"	
#5	6	5'-0"	
#5	4	4'-3"	
#5	28	3'-6"	
#5	1	3'-3"	
TOTAL #5			14991
1 BRIDGE RAILING TRANSITION (SOUTH)			551
1 APPROACH SLAB EXTENSION (SOUTH)			269
1 APPROACH SLAB EXTENSION (NORTH)			333
TOTAL EPOXY COATED REINFORCING STEEL			16144

MISCELLANEOUS	
REINFORCED CONCRETE BRIDGE APPROACH, 1'-0"	244.9 SYS
CONC. BRIDGE RAIL TRANSITION, TPF-1, MODIFIED	1 EACH
CONC. BRIDGE RAIL TRANSITION, TFC	1 EACH
SUBBASE FOR PCCP	61 CYS
GEOTEXTILE FOR SUBGRADE, TYPE 2B	244.9 SYS
#5 x 6'-0" THREADED TIE BAR ASSY, EPOXY CTD	63 EACH
SURFACE SEAL	2808 SFT

NOTES  
For 5801, 5814, 5820, 5822, 5825 and 5832 Bar Details, see INDOT Standard E706-TTPP-03.

For 530 Bar Details, refer to Sheet 40.

DATE	REVISION			RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION			BRIDGE FILE
										JOHNSON 602
									SCALE	DESIGNATION
									AS NOTED	1801455
									SURVEY BOOK	SHEETS
										53 of 82
									CONTRACT	PROJECT
									B-41320	1801455



SUMMARY OF BRIDGE QUANTITIES																												
ITEM	CONCRETE			CONCRETE RAILING CLASS C PF-1	RAILING CONCRETE FC	RAILING CONCRETE FT MODIFIED	EPOXY COATED THREADED TIE BAR ASSEMBLY	EPOXY COATED REINFORCING BARS	RAILING STEEL PF-1	CONC. BRIDGE RAIL TRANS. TFC	CONC. BRIDGE RAIL TRANS. TPF-1 MOD.	BRIDGE RAILING PEDESTRIAN FENCE	REINF. CONC. BRIDGE APPROACH (12 IN.)	SUBBASE FOR PCCP	CONCRETE STRUCTURAL MEMBERS HYBRID BULB-T 36 x 49	FOUNDATION EXCAVATION UNCLASSIFIED	PILES					BARRIER DELINEATOR	PIPE END BENT DRAIN	GEOTEXTILE FOR SUBGRADE TYPE 2B	AGGREGATE FOR END BENT BACKFILL	GEOTEXTILE FOR SUBGRADE TYPE 2A	SURFACE SEAL (ESTIMATED)	
	CLASS C	CLASS A	CLASS C														CONICAL PILE TIP (HP 12x53)	STEEL H (HP 12x53)	STEEL H EPOXY COATED	TEST PILE, INDICATOR, RESTRIKE	TEST PILE, INDICATOR, PRODUCTION							
	SUPERSTR	SUBSTR																										
																												CYS
SUBSTRUCTURE				LFT	LFT	LFT	EACH	LBS	LFT	EACH	EACH	LFT	SYS	CYS	LFT	CYS	EACH	LFT	LFT	EACH	LFT	EACH	LFT	SYS	CYS	SYS	SFT	
BENT NO. 1	25.6						10	3965								40.5	12	682		1	72			88		34.1	86.7	570
BENT NO. 2	24.0						10	3965								40.5	12	682		1	72			88		34.1	86.7	570
SUPERSTRUCTURE	258.1						374	52634							846												9129	
NORTH BRIDGE RAIL						134.8		3508				134.8																
MIDDLE BRIDGE RAIL				94.8				1640	103.30		2										4							
SOUTH BRIDGE RAIL					94.8			2567		2		94.8									4							
APPROACH SLAB BENT NO. 1							63	15750					244.9	61.0										244.9			2696	
APPROACH SLAB BENT NO. 2							63	16144					244.9	61.0										244.9			2808	
TOTALS	307.7			94.8	94.8	134.8	520	100173	103.30	2	2	229.6	489.8	122.0	846	81.0	24	1364		2	144	8	176	489.8	68.2	173.4	15773	



STRUCTURE DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
STRUCTURE NUMBER	LOCATION					SIZE	DESCRIPTION		LENGTH	VIDEO INSPECTION	SKEW	COVER		FLOW LINE			TOP OF CASTING	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL TYPE 2	STRUCTURE BACKFILL TYPE	FLOWABLE BACKFILL TYPE	FLOWABLE BACKFILL TYPE	UNDERCUT					GEOTEXTILES for RIPRAP TYPE 1B	REVTMENT RIPRAP	SCOUR PROTECTION			CONCRETE, CLASS A, FOR STR.	PIPE, REMOVE	VIDEO INSPECTION	PIPE END SECTION	GRATED BOX END SECTION			CONNECT TO STR.	CULVERT ASSET ID	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																							
	STATION	LEFT	RIGHT	CROSS	OFFSET		PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE				MIN	MAX	UP STREA M	DOWN STREA M	SUMP DEPTH										IN.	ELEV.	YRS	CYC	CYS			CYS	CYS	CYS					CYC	TONS	TONS				TONS	SYS	TON	SYS.	TONS	TONS	CYS	LFT	LFT	EA.	TYPE	SLOPE	EA.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
10	84+45	●			12	2	Type C Inlet, Casting Type 15	13.0			1.0		836.76	836.24		839.16	50	NA	7.0	1	23.27																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															</

LOCATION		MGS GUARDRAIL					GUARDRAIL FLARE RATE	GUARDRAIL MGS TRANSITION WITH CURB	GUARDRAIL END TREATMENT TYPE OS	MGS GUARDRAIL SYSTEM				GUARDRAIL REMOVE	HAND DIG GUARDRAIL POST HOLES	REMARKS		
FROM STATION	TO STATION	LEFT	MEDIAN LEFT	MEDIAN RIGHT	RIGHT	STANDARD POST AT 6 FT 3 IN. SPA.				STANDARD POST AT 3 FT 1.5 IN. SPA.	NESTED GUARDRAIL	TERMINAL SYSTEM					CONNECTOR SYSTEM	
												LFT	LFT				LFT	EACH
Line "A"																		
85+69	86+19				●					1								
86+19	87+94.50				●	175.5												
87+94.50	88+35				●				1									
89+61.50	90+02				●				1									
90+02	90+85				●	83												
90+85	91+35				●					1								
TOTALS						258.5				2	2							

		PIPE MATERIAL TABLE	
		STRUCTURE NUMBER	
		10, 11	
PIPE TYPE / SHAPE		1 / CIR	
SMOOTH PIPE SIZE		12	
CORRUGATED PIPE SIZE		12	
RCP/RCHP (S)	CLASS	II	
	D 0.01 RATING	1000	
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)			
CORRUGATED PE PIPE, TYPE S (S)			
RIBBED PE PIPE (S)*			
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR			
PROFILE WALL PVC PIPE (S)			
SMOOTH WALL PVC PIPE (S)*			
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)			
CORRUGATED STEEL PIPE / PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE	
		THICKNESS	
	ZINC COATED (C)	CORR. PROFILE	2 2/3 x 1/2
		THICKNESS	0.109
	ZINC COATED W/ BPI (C)	CORR. PROFILE	2 2/3 x 1/2
		THICKNESS	0.064
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE	2 2/3 x 1/2
		THICKNESS	0.064
	ALUM. COATED TYPE 2 W/ BPI (C)	CORR. PROFILE	
		THICKNESS	
	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE	2 2/3 x 1/2
		THICKNESS	0.064
	POLYMER PRECOATED GALVANIZED W/ BPI (C)	CORR. PROFILE	
		THICKNESS	
	POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)	CORR. PROFILE	
		THICKNESS	
	FIBER BONDED BITUMINOUS COATED (C)	CORR. PROFILE	
		THICKNESS	
	FIBER BONDED BITUMINOUS COATED W/ BPI (C)	CORR. PROFILE	
		THICKNESS	
	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE	2 2/3 x 1/2
		THICKNESS	0.060
	CORRUGATED ALUM. ALLOY PIPE W/ BPI (C)	CORR. PROFILE	
		THICKNESS	
	STR. PLATE ALUMINUM ALLOY PLATE (C)	CORR. PROFILE	
		THICKNESS	
	STR. PLATE ALUMINUM ALLOY PLATE W/ CFP (C)	CORR. PROFILE	
		THICKNESS	
STR. PLATE STEEL PIPE (C)	CORR. PROFILE		
	THICKNESS**		
STR. PLATE STEEL PIPE W/ CFP (C)	CORR. PROFILE		
	THICKNESS**		

<u>LEGEND</u>	
RCP	Reinforced Concrete Pipe
RCHEP	Reinforced Concrete Horizontal Elliptical Pipe
PE	Polyethylene
DR	Dimension Ratio
PVC	Polyvinyl Chloride
BIT	Bituminous
CORR	Corrugation
BPI	Bituminous Paved Invert
ALUM	Aluminum
STR	Structural
CFP	Concrete Field Paving
CIR	Circular Pipe
DEF	Deformed Pipe
(S)	Smooth Pipe Material
(C)	Corrugated Pipe Material
OK	Acceptable for Use
(LS)	Lock Seam Pipe Required

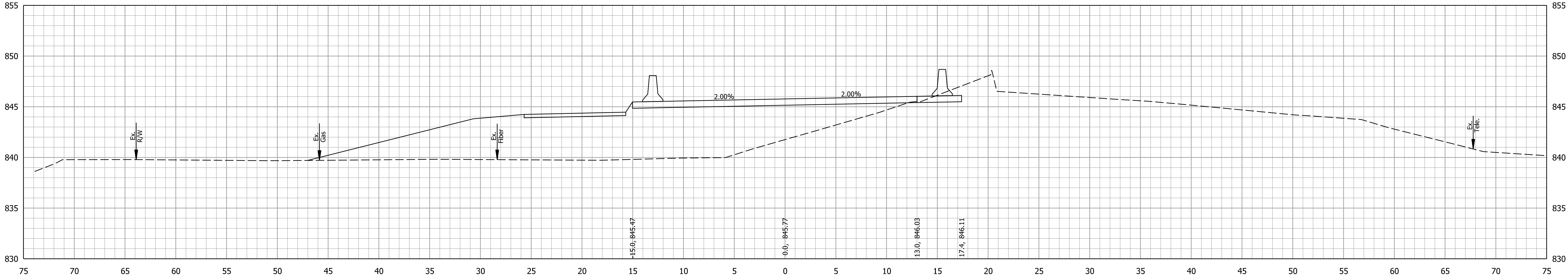
\* Refer to Standard Drawings 715-PHCL-18 and 715-PHCL-19 for nominal diameter appropriate for pay item diameter.

\*\* Tabulated thickness refers to top and side plates. Bottom plates shall be of next greater available thickness.

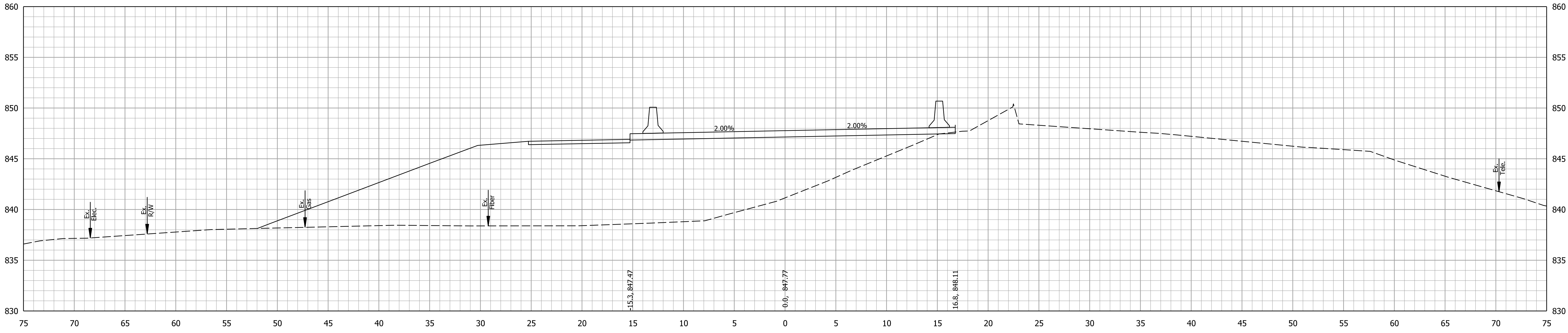
MONUMENT TABLE					
STATION	OFFSET (FT)	MONUMENT TYPE	TYPE "B" EACH	TYPE "C" EACH	BENCHMARK
P.O.T. Sta. 82+21.00 "A"	0.0	B	1		
Sta. 88+51.64 "A"	13.0 RT				1
P.O.T. Sta. 90+24.57 "PR-A"	0.0	B	1		
P.O.C. Sta. 91+40.00 "PR-A"	0.0	B	1		
P.I. Sta. 92+36.23 "PR-A"	42.1 LT	C		1	
P.T. Sta. 94+25.91 "PR-A"	0.0	B	1		
TOTALS			4	1	1

		RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION	BRIDGE FILE				
					JOHNSON 602				
		DESIGN ENGINEER		SCALE		DESIGNATION			
		DATE		NO SCALE		1801455			
		DESIGNED: RJZ	DRAWN: ESC	SUMMARY TABLES		SURVEY BOOK		SHEETS	
		CHECKED: HNG	CHECKED: RJZ			55 of 82		PROJECT	
				CONTRACT		1801455			
				B-41320					





91+50.00



91+00.00

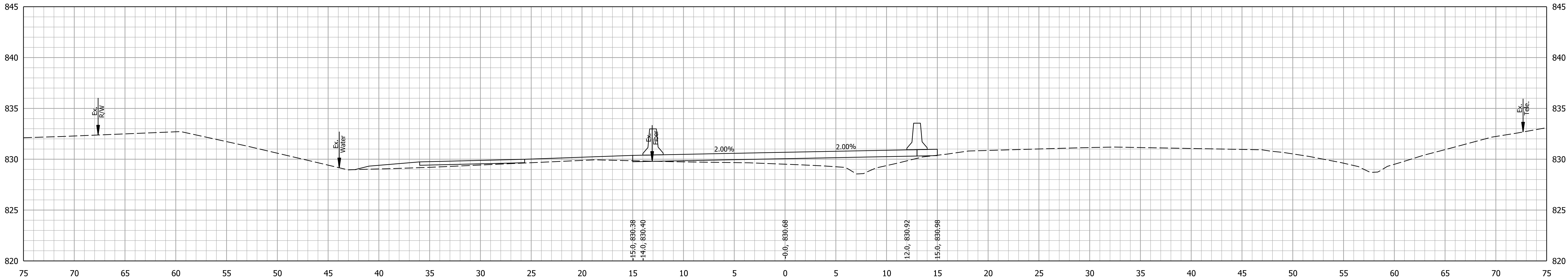
STA. 91+00.00 TO STA. 91+50.00

RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

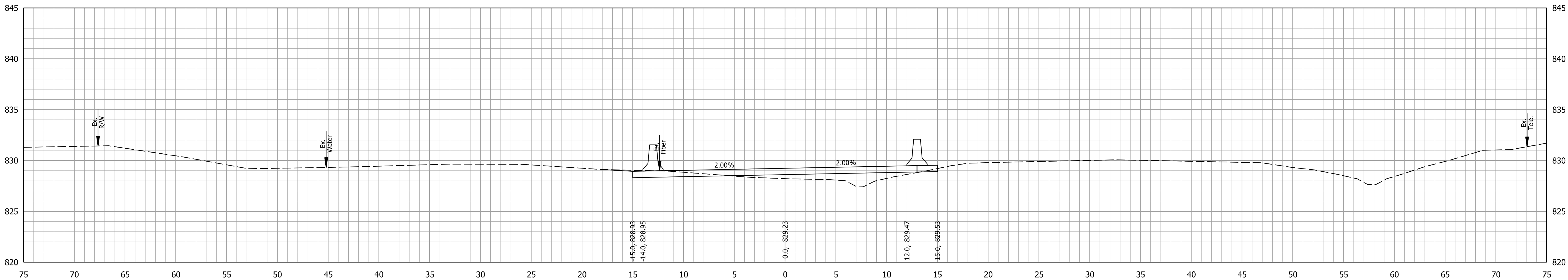
INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
MAINTENANCE OF TRAFFIC

BRIDGE FILE	
JOHNSON 602	
DESIGNATION	
1801455	
SHEETS	
SURVEY BOOK	68 of 82
CONTRACT	PROJECT
B-41320	1801455



82+50.00



82+21.00

BEGIN TEMPORARY PAVEMENT  
STA 80+55, LINE "A"

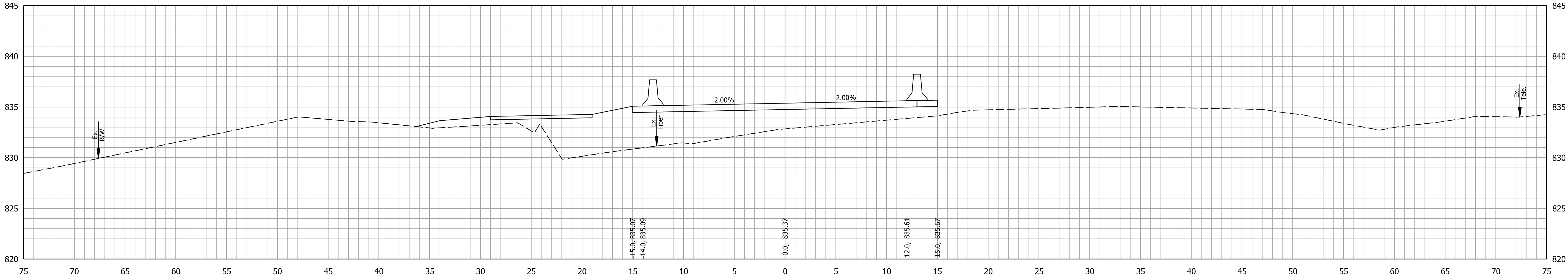
RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

INDIANA  
DEPARTMENT OF TRANSPORTATION

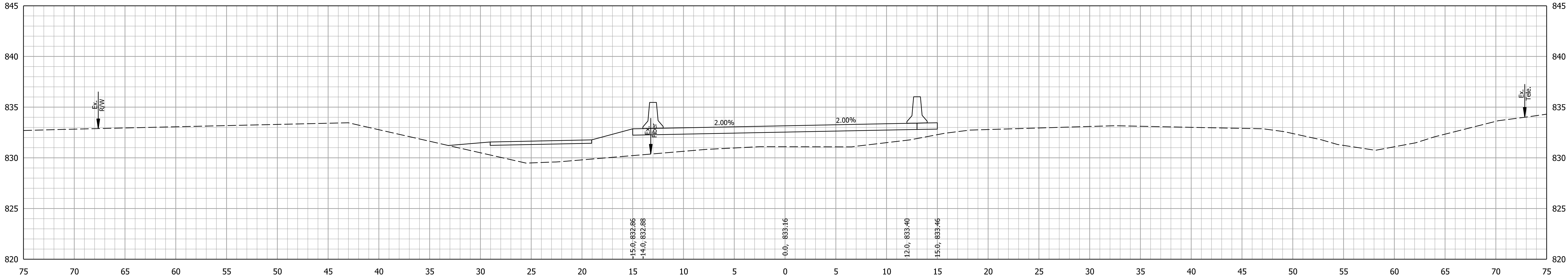
CROSS SECTIONS  
MAINTENANCE OF TRAFFIC

BRIDGE FILE	
JOHNSON 602	
DESIGNATION	
1801455	
SHEETS	
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PROJECT	
1801455	





83+50.00



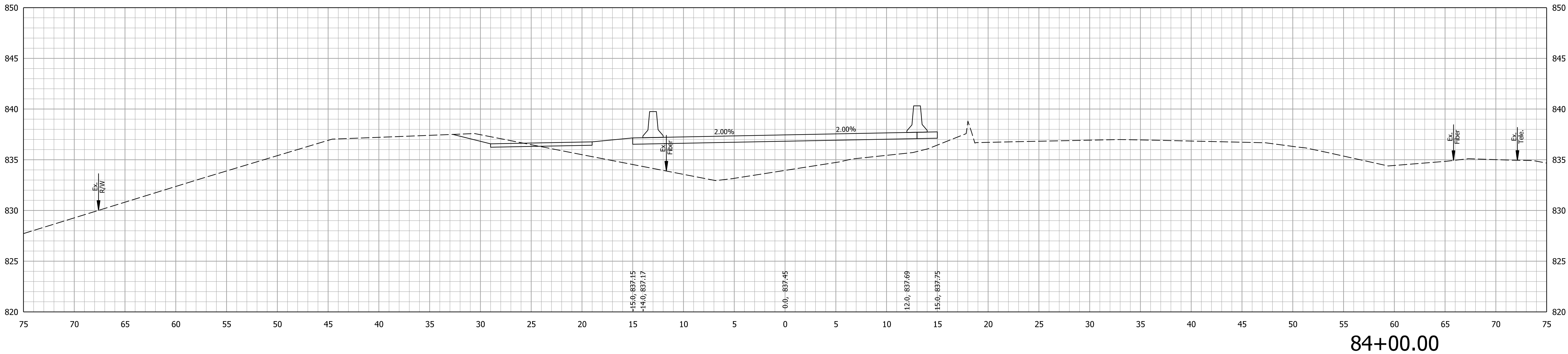
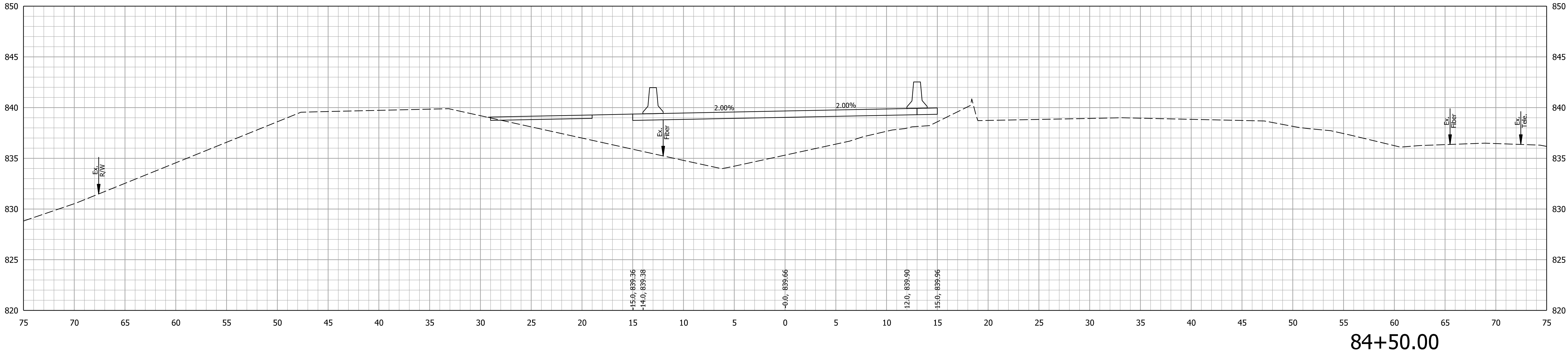
83+00.00

STA. 83+00.00 TO STA. 83+50.00

RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS MAINTENANCE OF TRAFFIC	

BRIDGE FILE	
JOHNSON 602	
DESIGNATION	
1801455	
SHEETS	
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1801455	

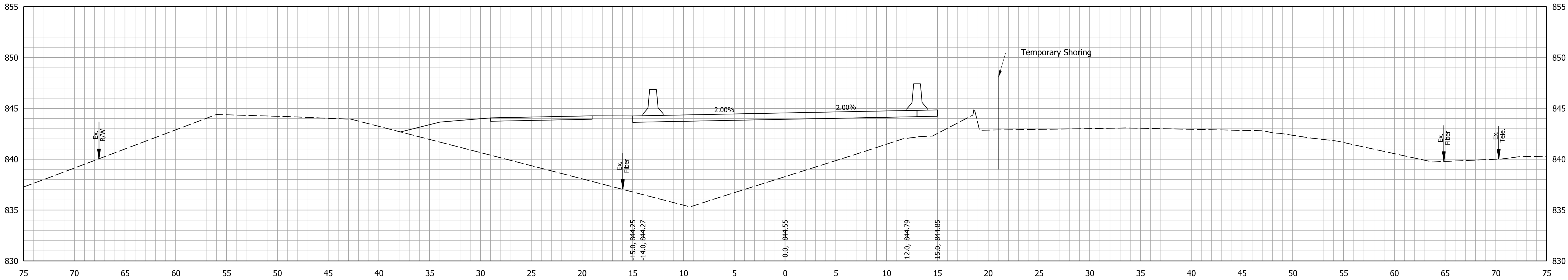


RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

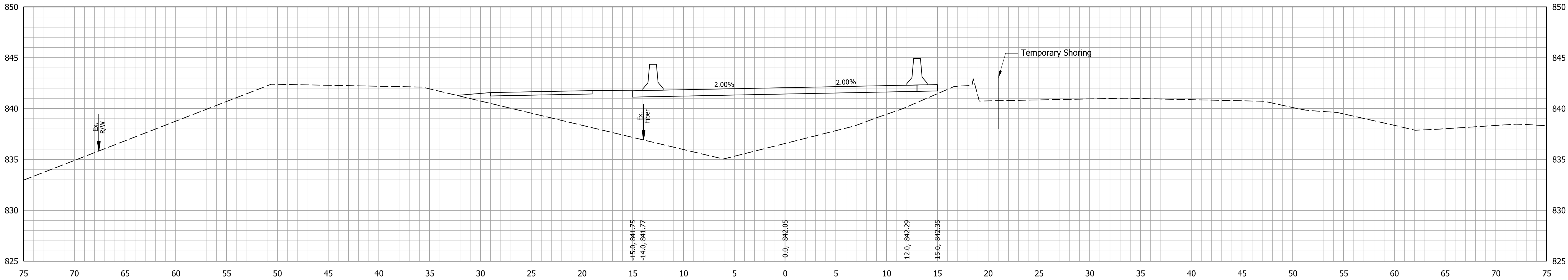
INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS MAINTENANCE OF TRAFFIC	

BRIDGE FILE	
JOHNSON 602	
DESIGNATION	
1801455	
SHEETS	
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PROJECT	
1801455	





85+50.00



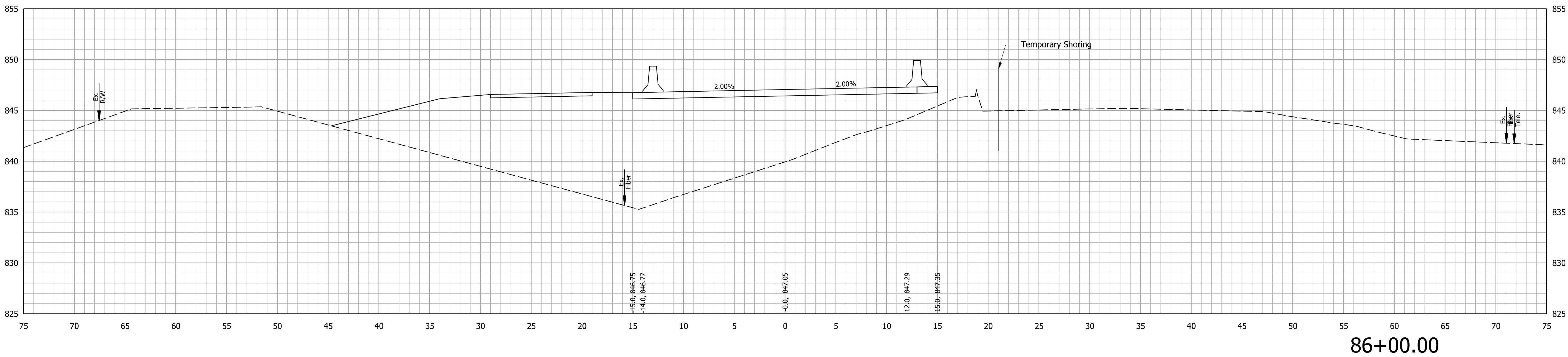
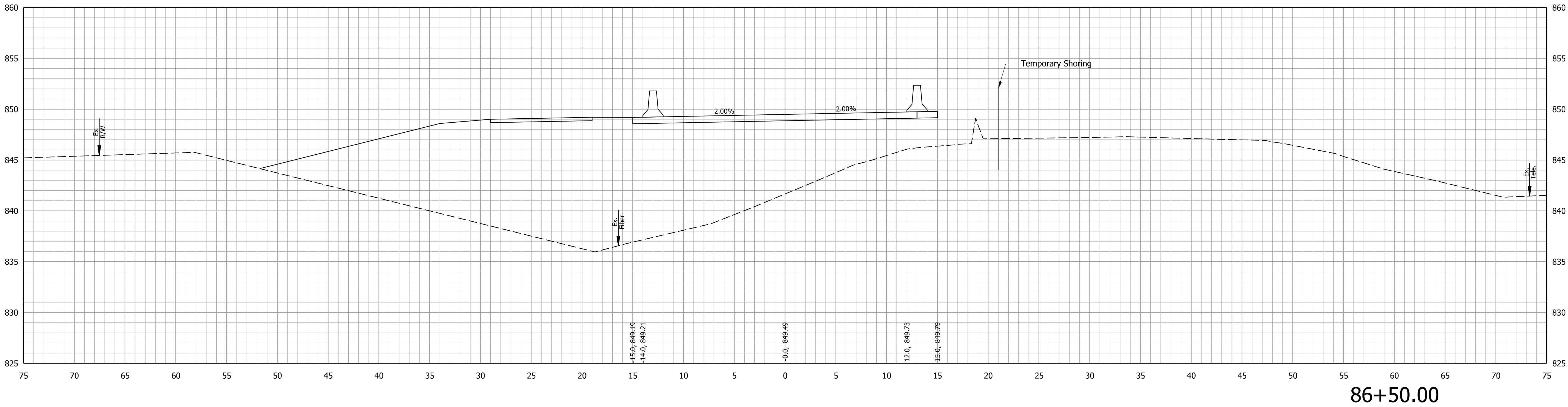
85+00.00

RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
MAINTENANCE OF TRAFFIC

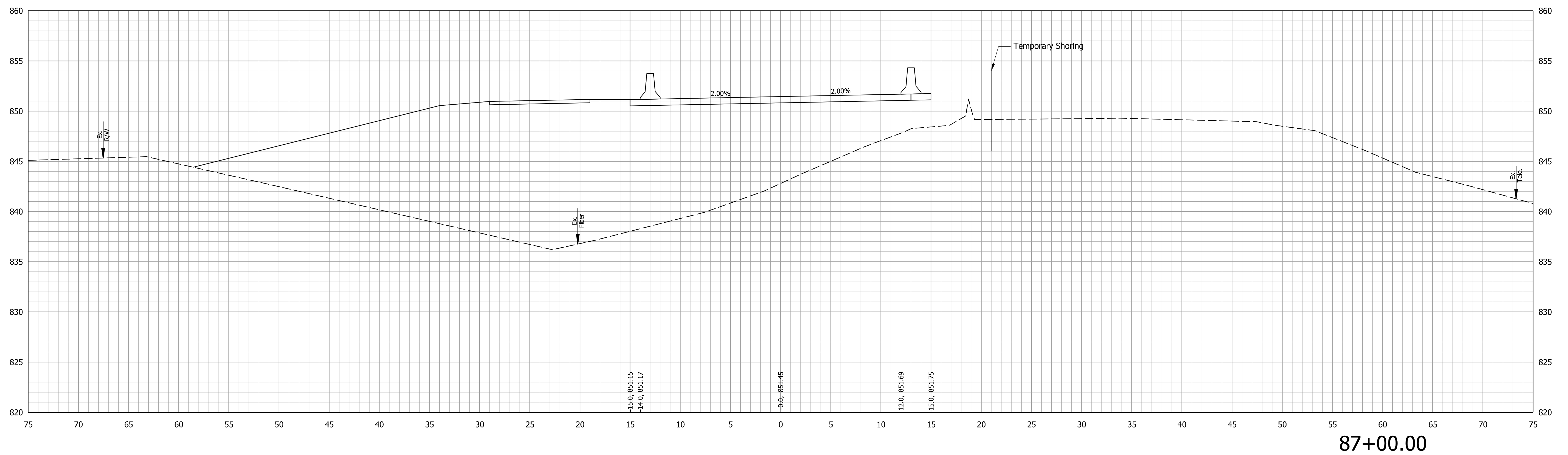
BRIDGE FILE	
JOHNSON 602	
DESIGNATION	
1801455	
SHEETS	
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PROJECT	
1801455	



RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

INDIANA DEPARTMENT OF TRANSPORTATION	BRIDGE FILE	
	JOHNSON 602	
CROSS SECTIONS MAINTENANCE OF TRAFFIC	DESIGNATION	
	1801455	
	SHEETS	
	60	of 82
	PROJECT	
	1801455	

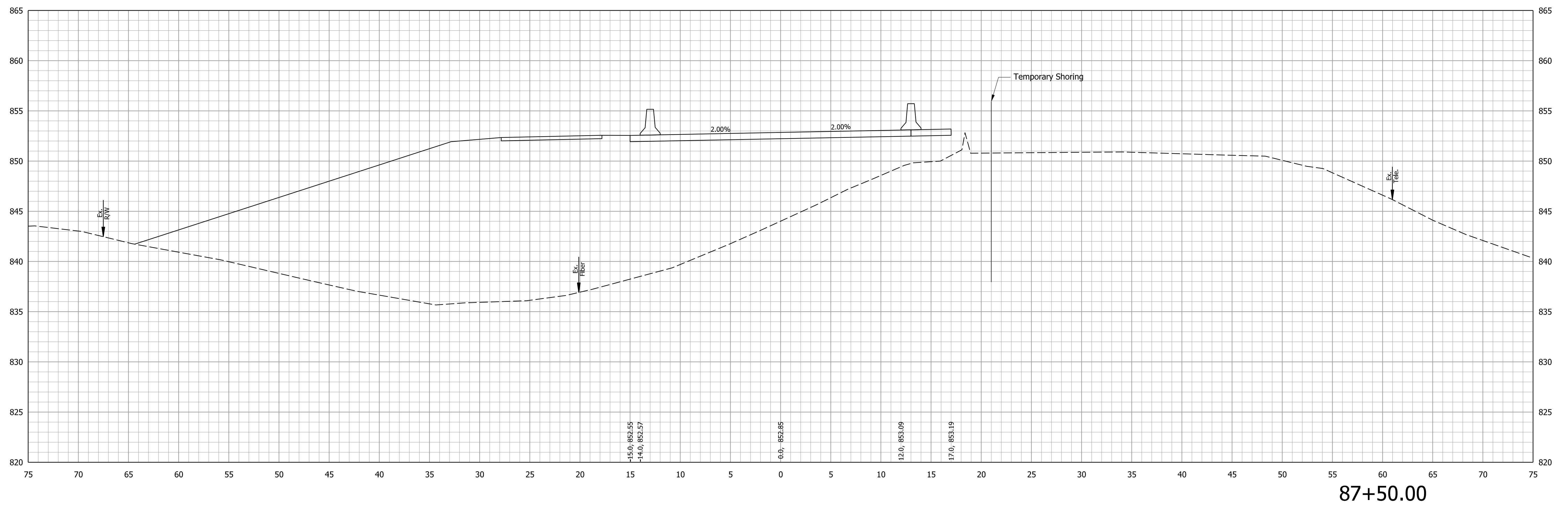
SCALE	
1" = 5'	
SURVEY BOOK	
CONTRACT	
B-41320	



STA. 87+00.00 TO STA. 87+00.00

<div>RECOMMENDED FOR APPROVAL</div> <div>DESIGN ENGINEER</div> <div>DATE</div>	<div>INDIANA</div> <div>DEPARTMENT OF TRANSPORTATION</div>				BRIDGE FILE			
					JOHNSON 602			
				SCALE	DESIGNATION			
				1" = 5'	1801455			
DESIGNED: <u>AJP</u>	DRAWN: <u>AJP</u>	<div>CROSS SECTIONS</div> <div>MAINTENANCE OF TRAFFIC</div>			SURVEY BOOK		SHEETS	
						61	of	82
CHECKED: <u>JLR</u>	CHECKED: <u>AJP</u>				CONTRACT	PROJECT		
					B-41320	1801455		

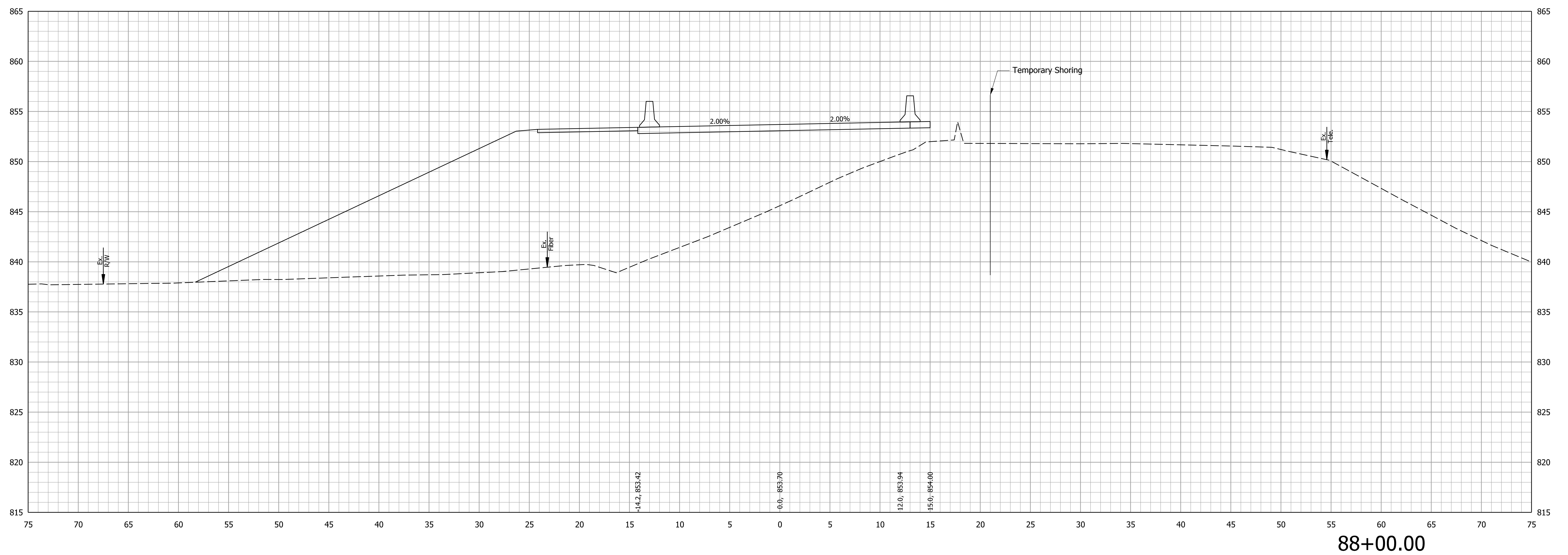




STA. 87+50.00 TO STA. 87+50.00

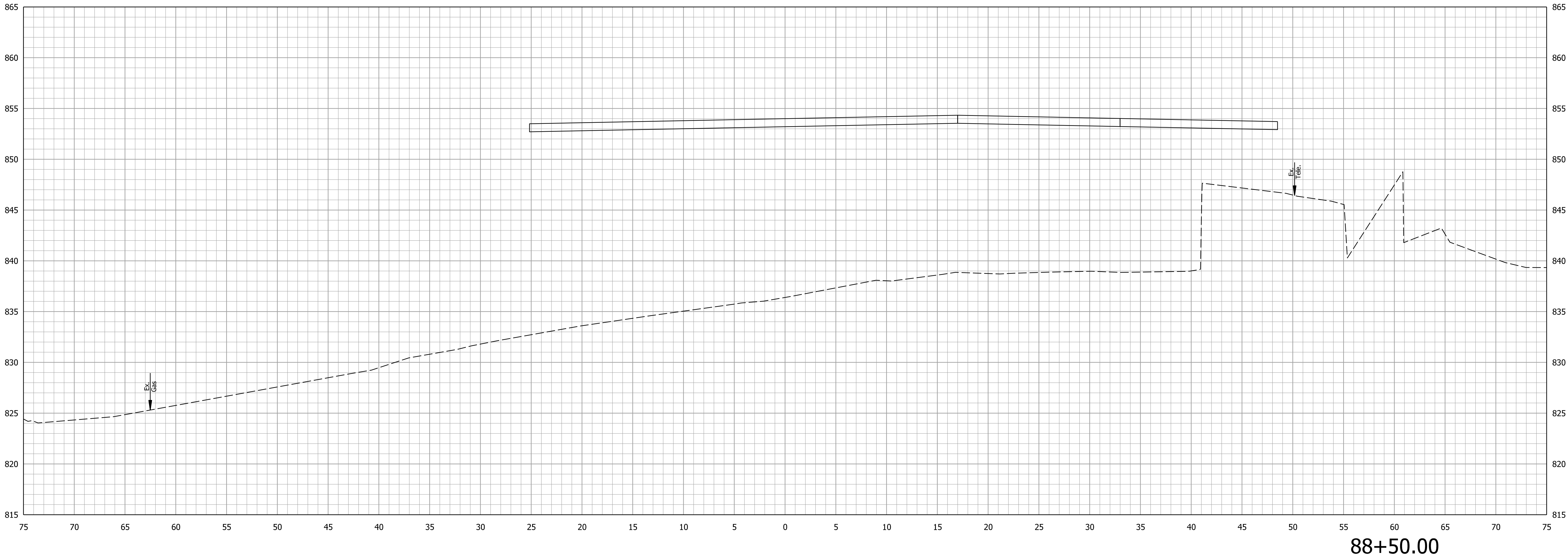
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						JOHNSON 602			
						DESIGNATION			
						1801455			
DESIGNED: <u>AJP</u>		DRAWN: <u>AJP</u>		CROSS SECTIONS MAINTENANCE OF TRAFFIC		SURVEY BOOK		SHEETS	
						62 of 82			
CHECKED: <u>JLR</u>		CHECKED: <u>AJP</u>				CONTRACT		PROJECT	
						B-41320		1801455	

BEGIN PAVING EXCEPTION  
STA 88+10.84, LINE "A"



STA. 88+00.00 TO STA. 88+00.00

RECOMMENDED FOR APPROVAL			INDIANA DEPARTMENT OF TRANSPORTATION			BRIDGE FILE	
				JOHNSON 602			
	DESIGN ENGINEER			DESIGNATION			
DATE				SCALE		1801455	
				1" = 5'			
DESIGNED: <u>AJP</u>	DRAWN: <u>AJP</u>	CROSS SECTIONS MAINTENANCE OF TRAFFIC	SURVEY BOOK		SHEETS		
CHECKED: <u>JLR</u>	CHECKED: <u>AJP</u>				63	of	82
			CONTRACT		PROJECT		
				B-41320		1801455	



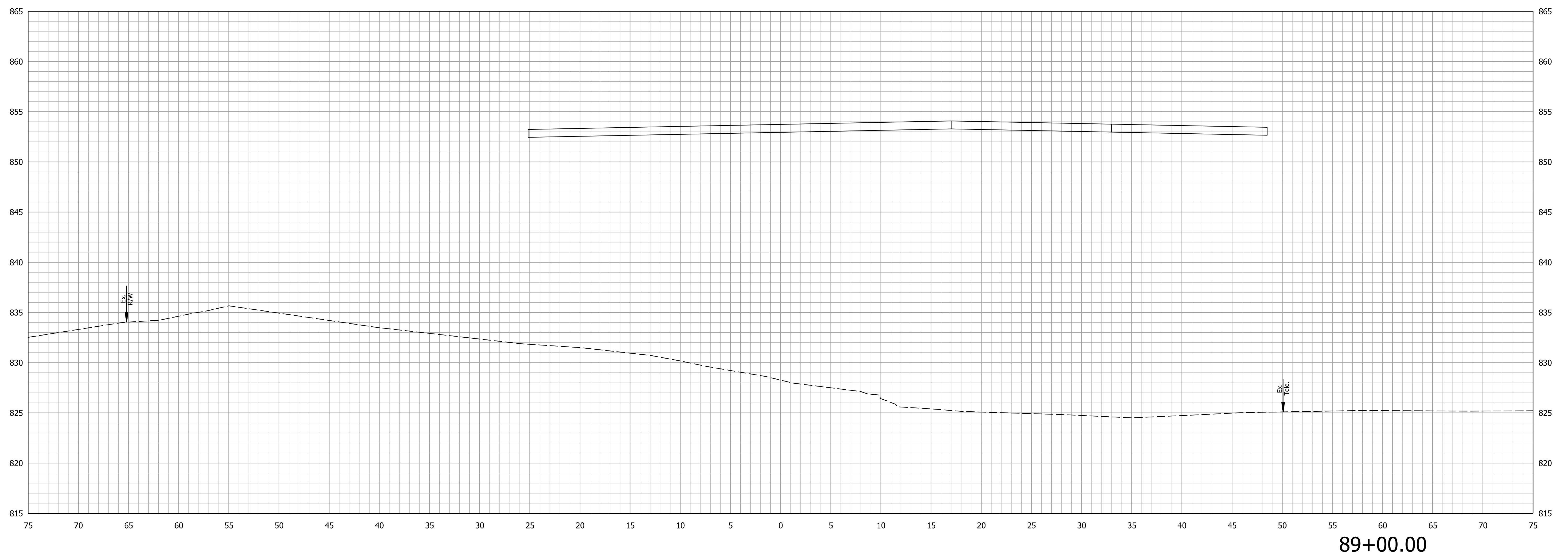
STA. 88+50.00 TO STA. 88+50.00

RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS MAINTENANCE OF TRAFFIC	

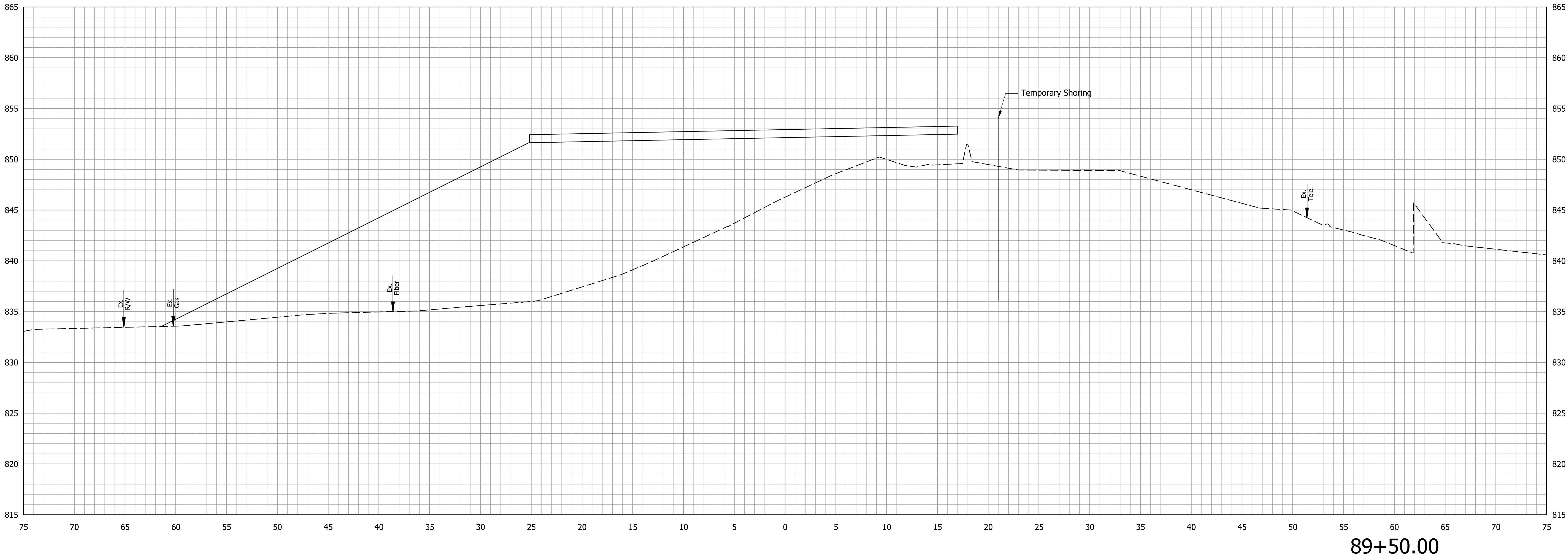
BRIDGE FILE	
JOHNSON 602	
DESIGNATION	
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SHEETS	
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1801455	





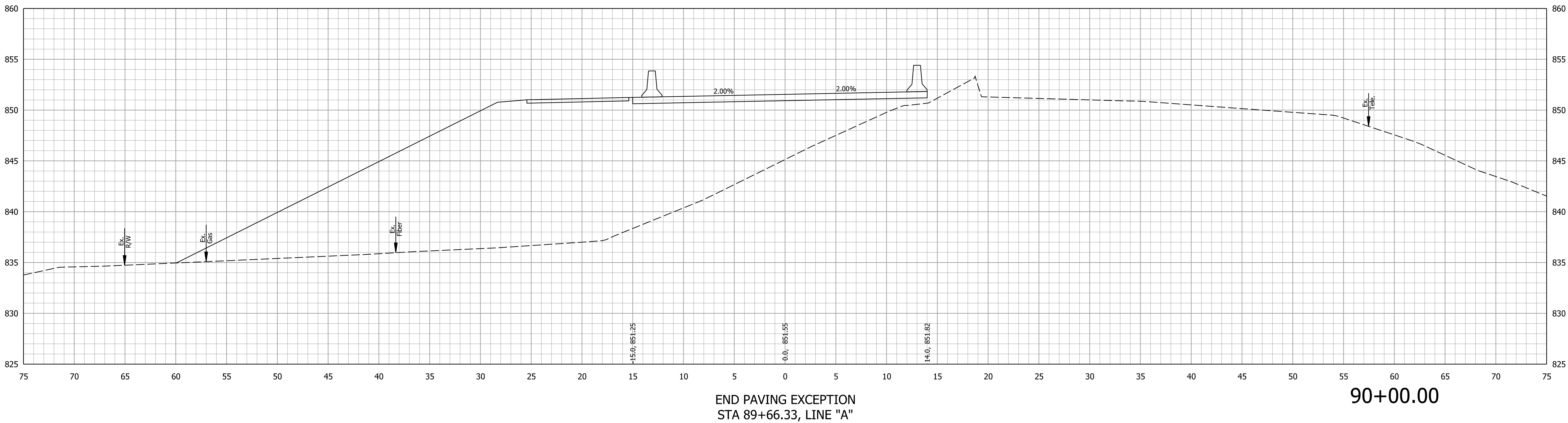
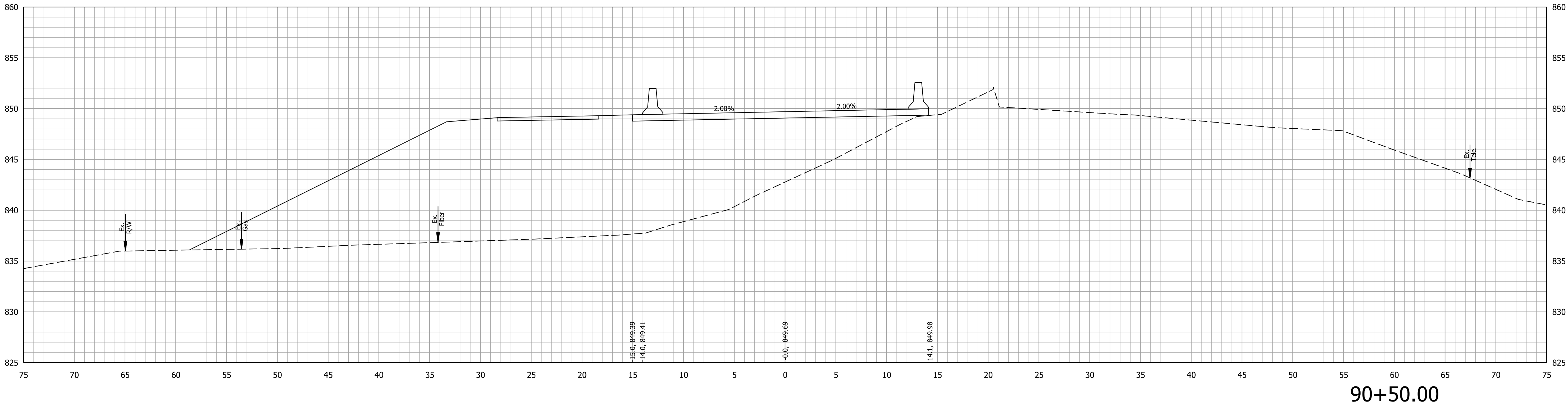
STA. 89+00.00 TO STA. 89+00.00

RECOMMENDED FOR APPROVAL _____ _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE JOHNSON 602 SCALE 1" = 5' 1801455	
DESIGNED: <u>AJP</u> _____ CHECKED: <u>JLR</u> _____		DRAWN: <u>AJP</u> _____ CHECKED: <u>AJP</u> _____		CROSS SECTIONS MAINTENANCE OF TRAFFIC	
				SURVEY BOOK _____ CONTRACT B-41320 1801455	
				SHEETS 65 of 82 PROJECT 1801455	



STA. 89+50.00 TO STA. 89+50.00

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION						BRIDGE FILE			
												JOHNSON 602			
												DESIGNATION			
												1801455			
DESIGNED: <u>AJP</u>		DRAWN: <u>AJP</u>				CROSS SECTIONS MAINTENANCE OF TRAFFIC				SURVEY BOOK					
										66		of		82	
CHECKED: <u>JLR</u>		CHECKED: <u>AJP</u>								CONTRACT		PROJECT			
										B-41320		1801455			

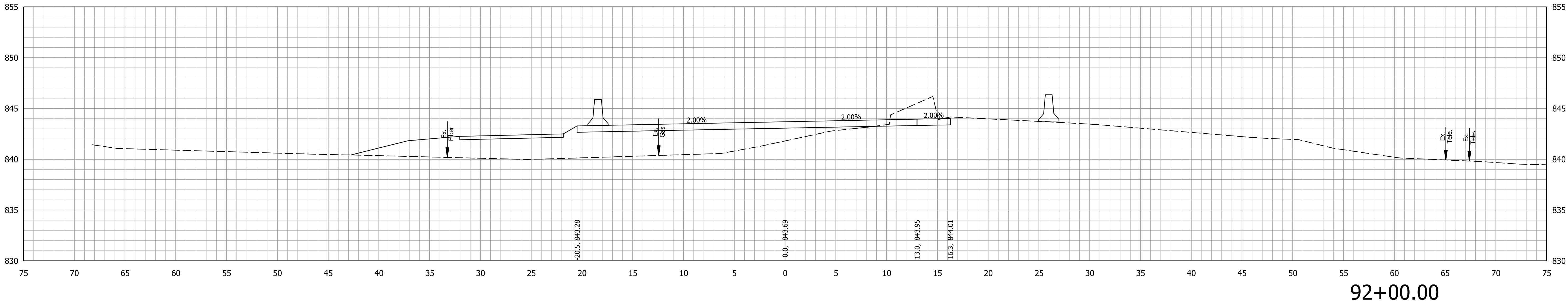
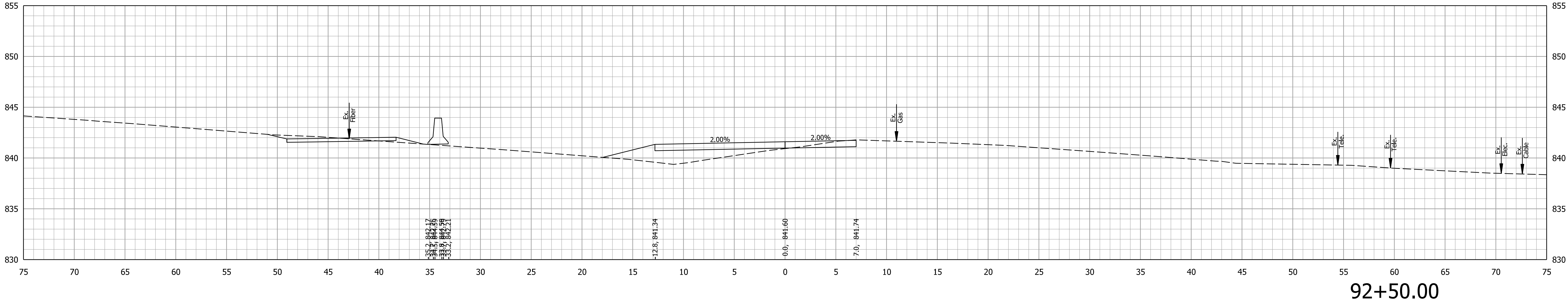


RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS MAINTENANCE OF TRAFFIC	

BRIDGE FILE	
JOHNSON 602	
DESIGNATION	
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SHEETS	
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PROJECT	
1801455	



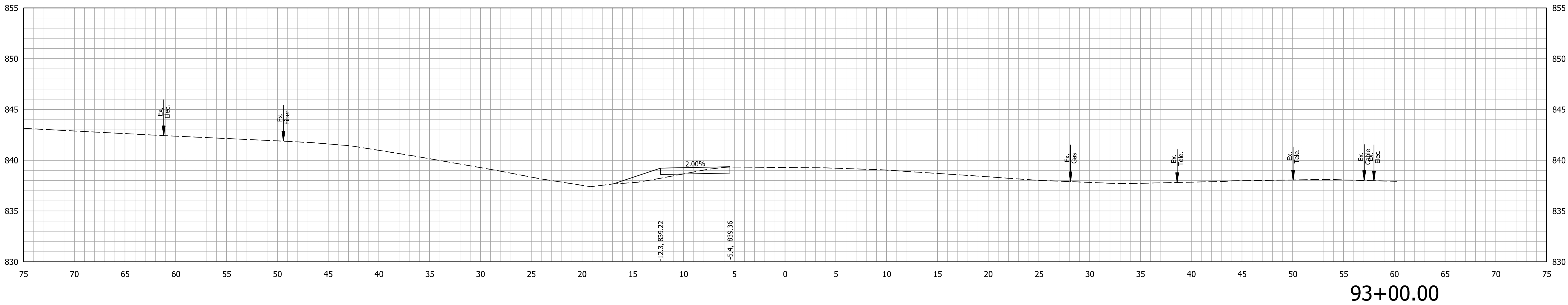
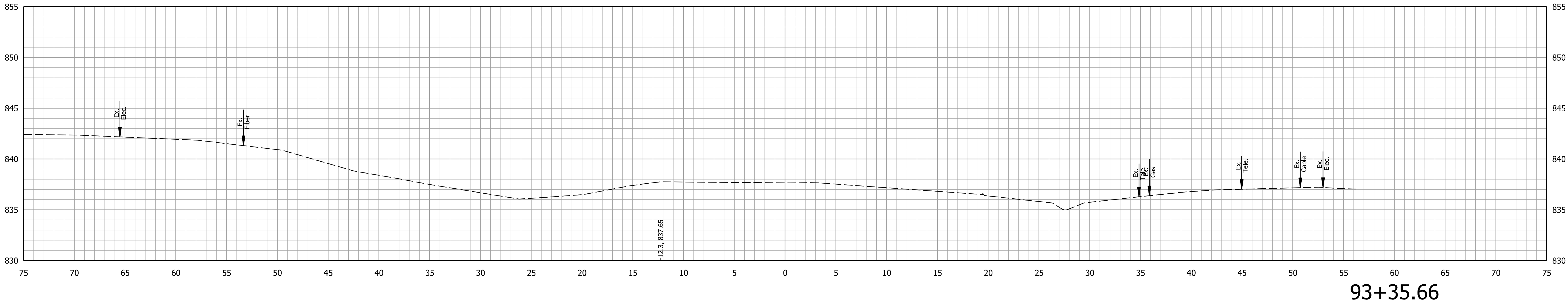


RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS MAINTENANCE OF TRAFFIC	

BRIDGE FILE	
JOHNSON 602	
DESIGNATION	
1801455	
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1801455	

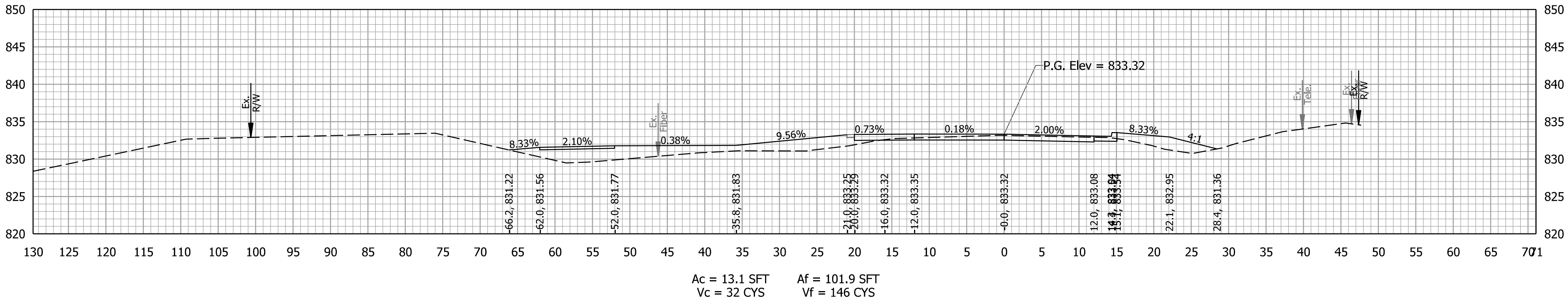
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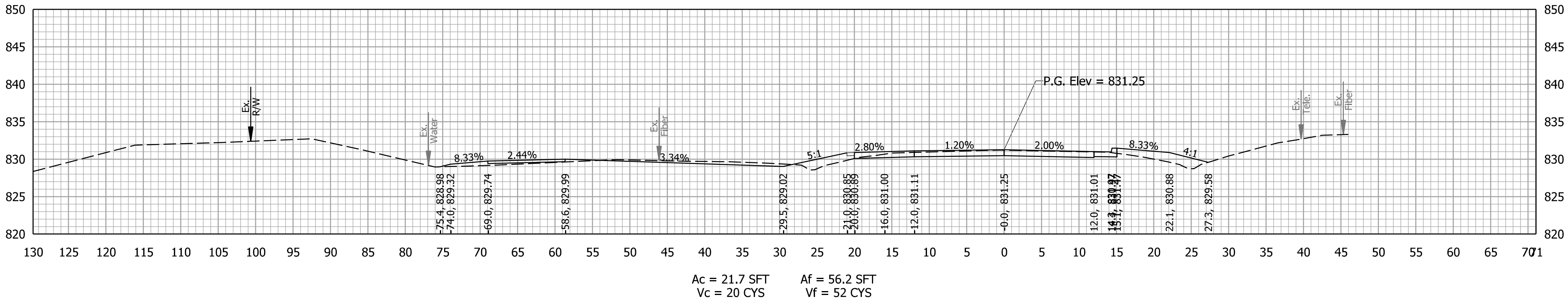
RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

INDIANA DEPARTMENT OF TRANSPORTATION	BRIDGE FILE		
	JOHNSON 602		
CROSS SECTIONS MAINTENANCE OF TRAFFIC	DESIGNATION		
	1801455		
	SHEETS		
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	PROJECT		
	1801455		

SCALE		BRIDGE FILE	
1" = 5'		JOHNSON 602	
SURVEY BOOK		DESIGNATION	
CONTRACT		1801455	
B-41320		PROJECT	
		1801455	

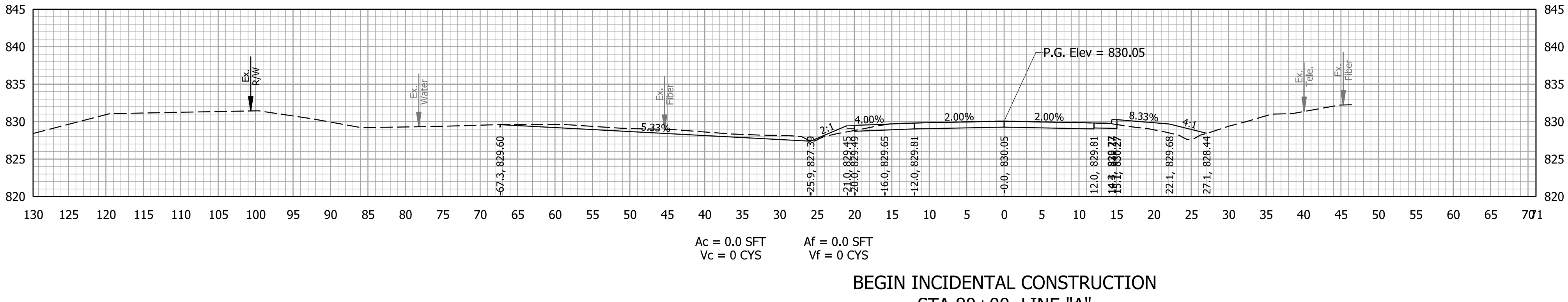


83+00.00



82+50.00

BEGIN PROJECT  
STA 82+21, LINE "A"

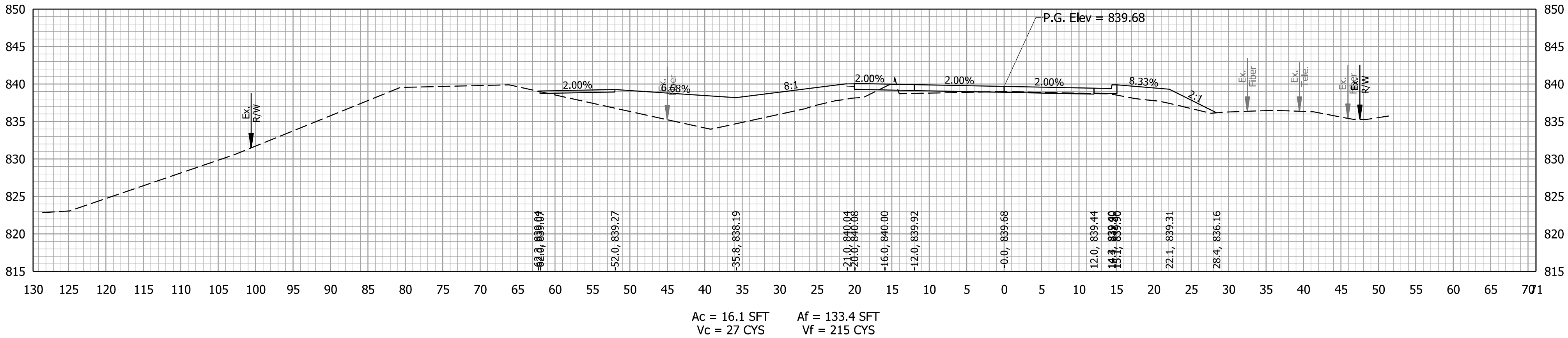


82+21.00

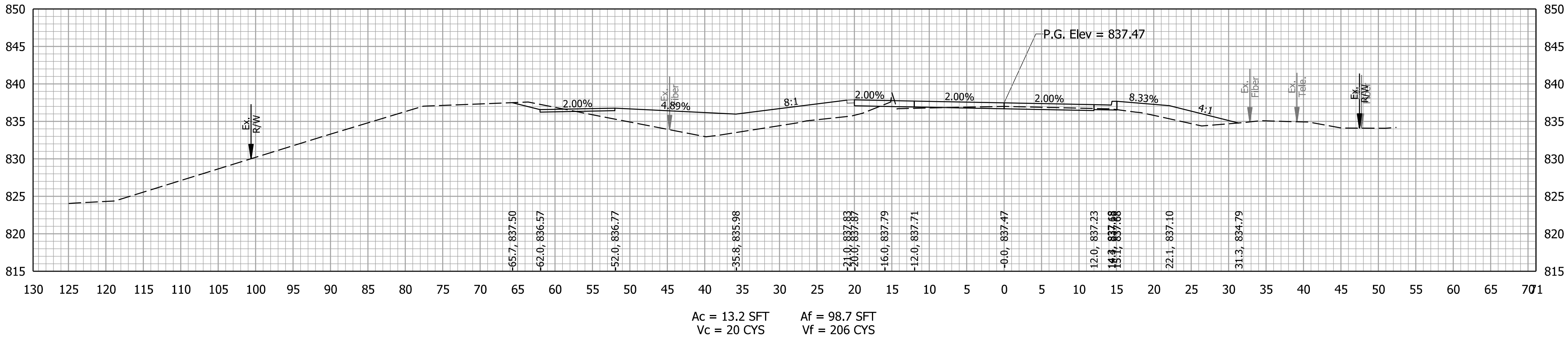
BEGIN INCIDENTAL CONSTRUCTION  
STA 80+00, LINE "A"

RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION				BRIDGE FILE					
						JOHNSON 602					
				SCALE		DESIGNATION					
				1" = 10'		1801455					
DESIGNED: AJP		DRAWN: AJP		CROSS SECTIONS LINE "A"		SURVEY BOOK		SHEETS			
						71		of		82	
CHECKED: JLR		CHECKED: AJP				CONTRACT		PROJECT			
						B-41320		1801455			

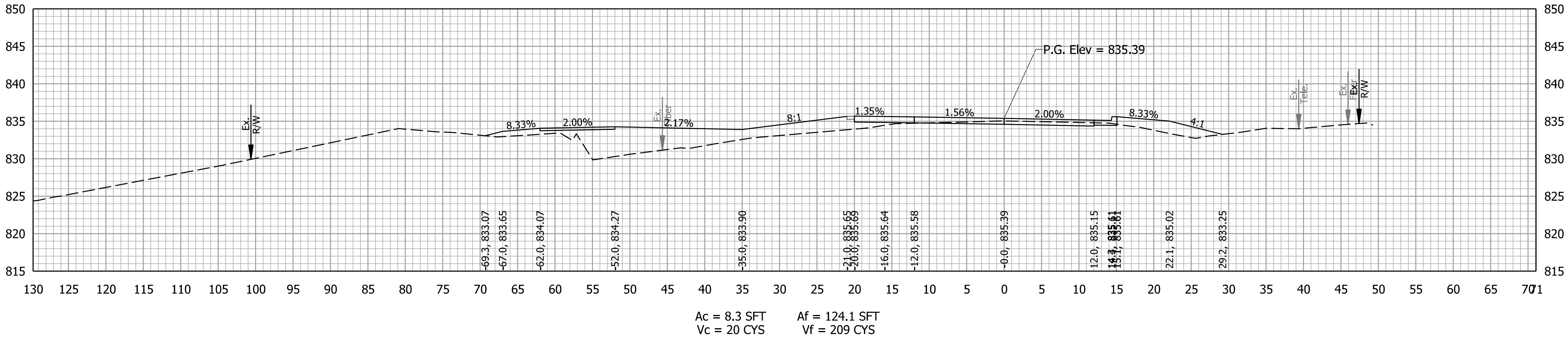




84+50.00



84+00.00

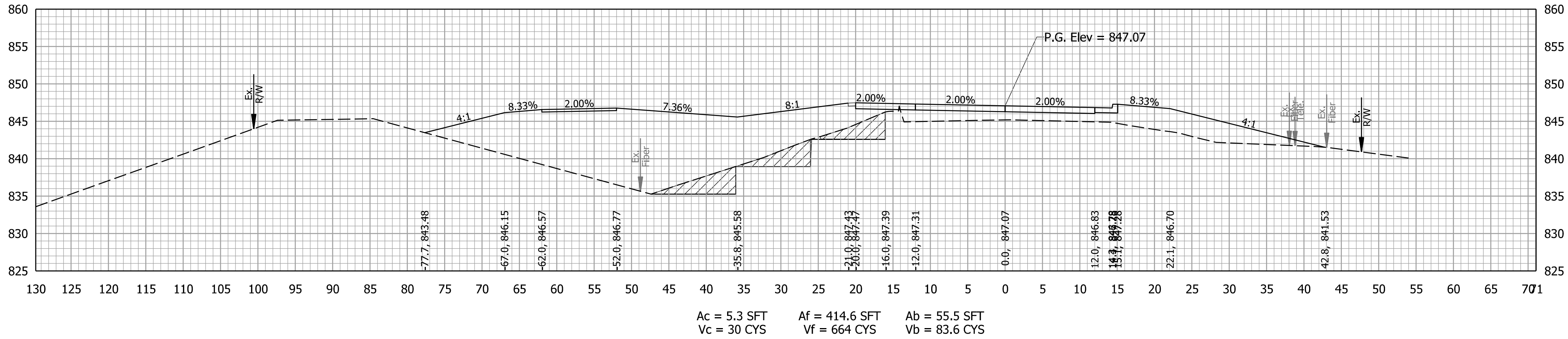


83+50.00

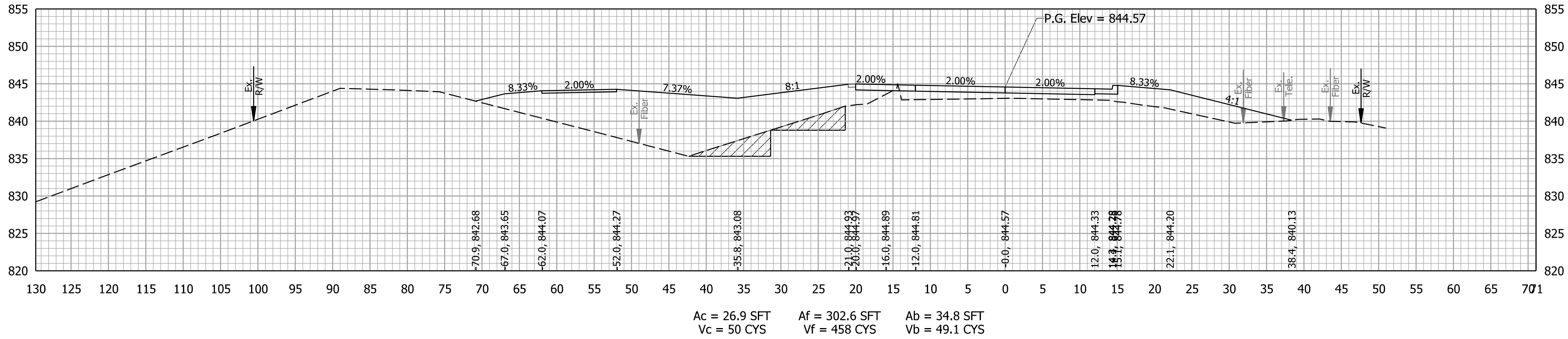
RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS LINE "A"	

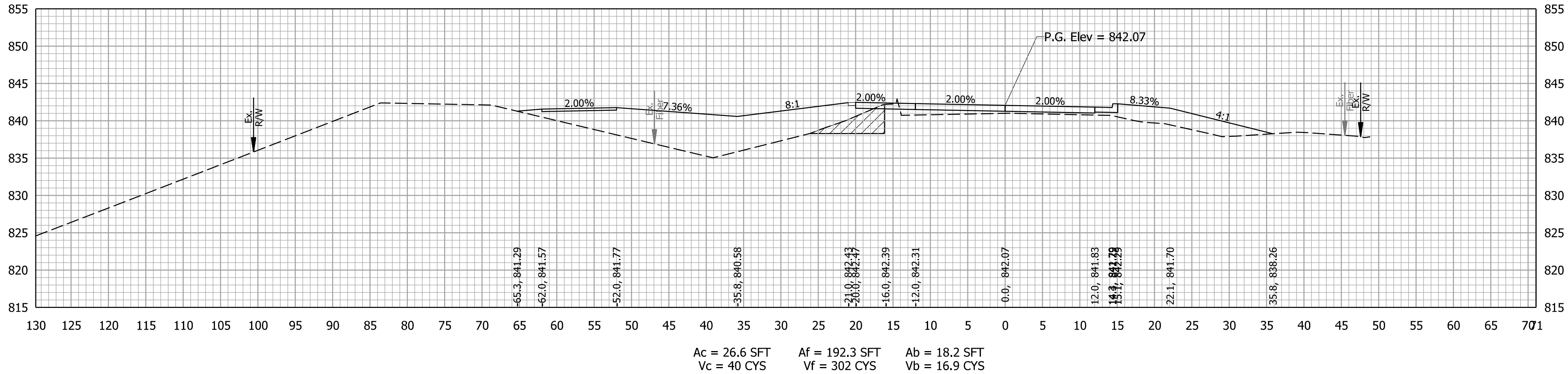
BRIDGE FILE	
JOHNSON 602	
DESIGNATION	
1801455	
SHEETS	
72 of 82	
PROJECT	
1801455	



86+00.00

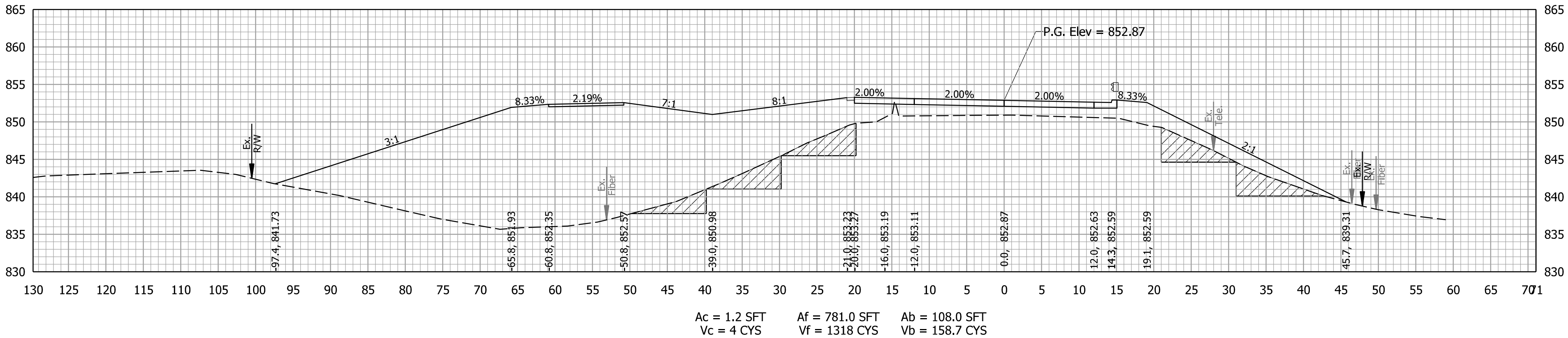


85+50.00

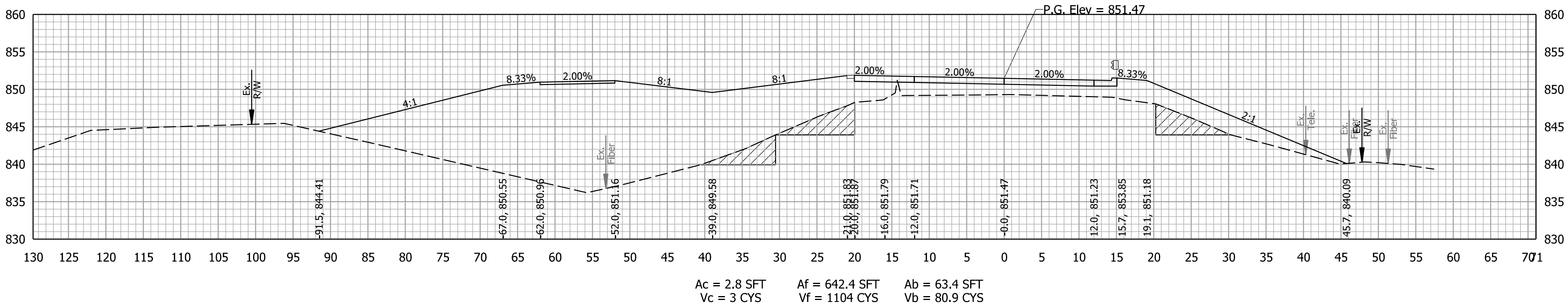


85+00.00

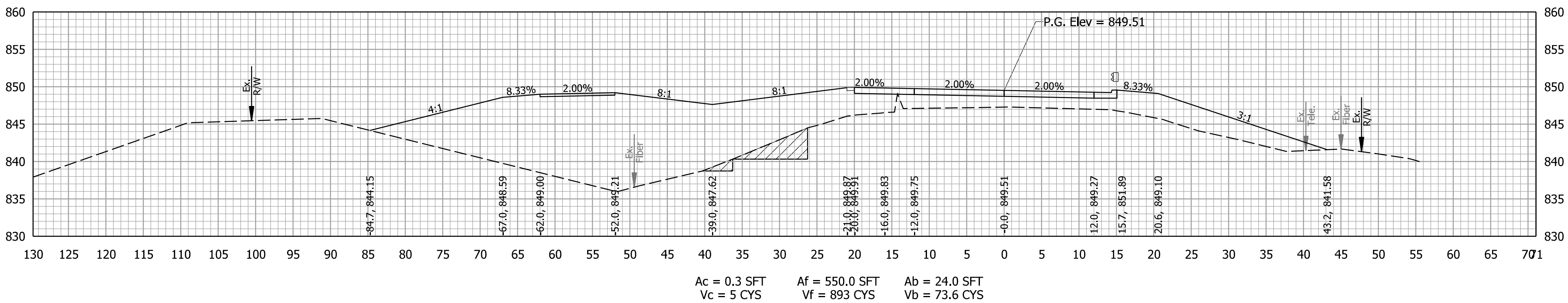
		RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	BRIDGE FILE	
						JOHNSON 602	
						SCALE	DESIGNATION
						1" = 10'	1801455
		DESIGNED: AJP	DRAWN: AJP		CROSS SECTIONS LINE "A"	SHEETS	
						73	of 82
						PROJECT	
						1801455	



87+50.00



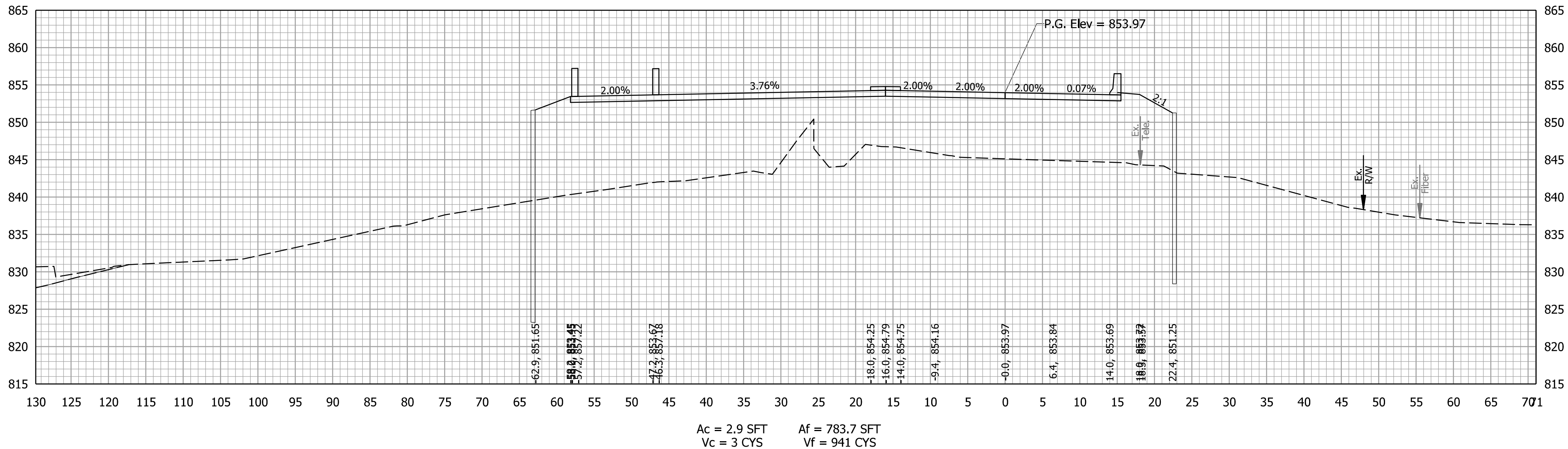
87+00.00



86+50.00

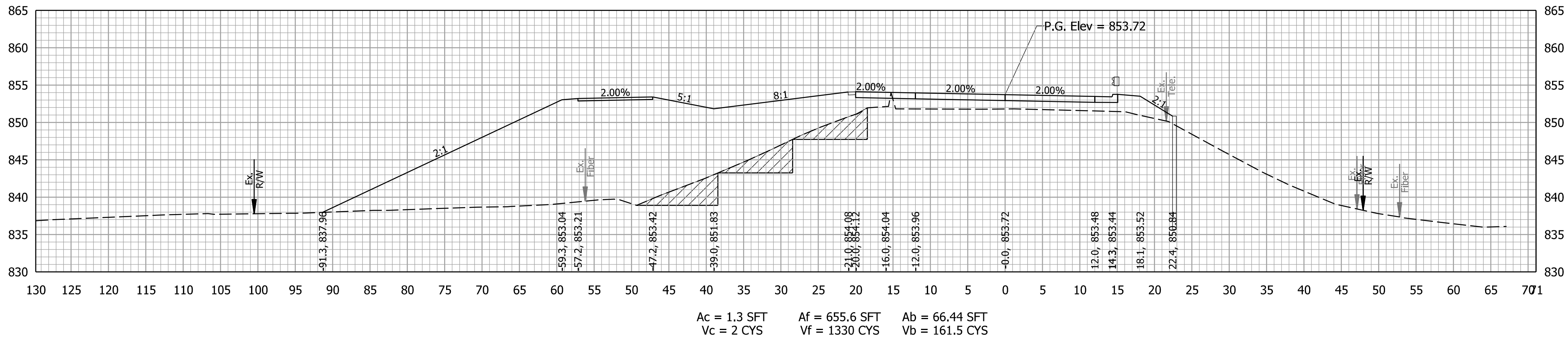
		RECOMMENDED FOR APPROVAL			INDIANA DEPARTMENT OF TRANSPORTATION	BRIDGE FILE			
						JOHNSON 602			
						DESIGNATION			
						1801455			
		DESIGNED: AJP	DESIGN ENGINEER		CROSS SECTIONS LINE "A"	SURVEY BOOK		SHEETS	
			DATE					74 of 82	
CHECKED: JLR		CHECKED: AJP		CONTRACT		PROJECT			
				B-41320		1801455			





BEGIN PAVING EXCEPTION  
STA 88+10.84, LINE "A"

88+35.32

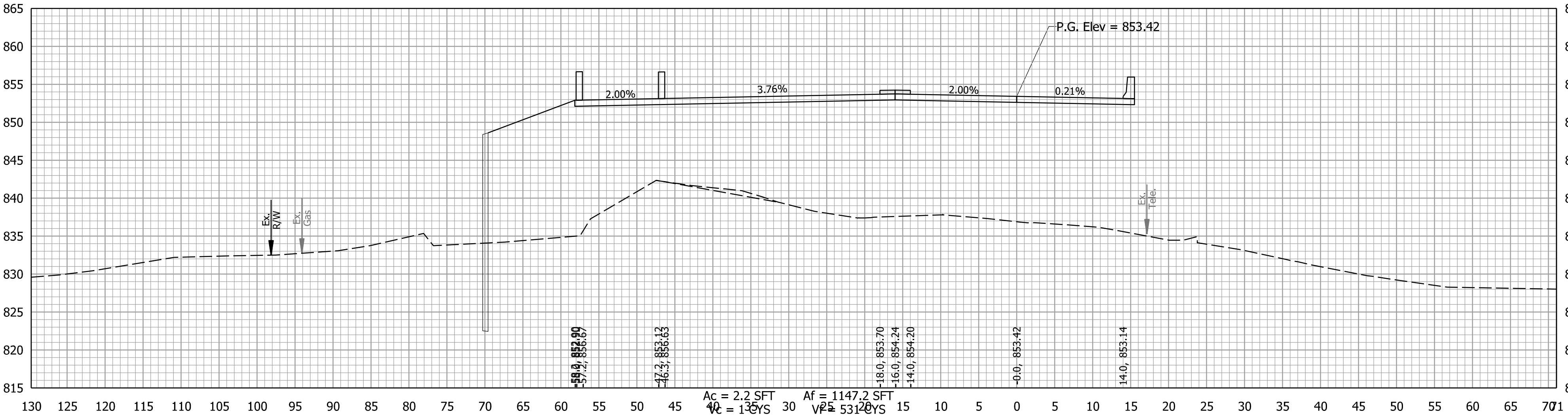


88+00.00

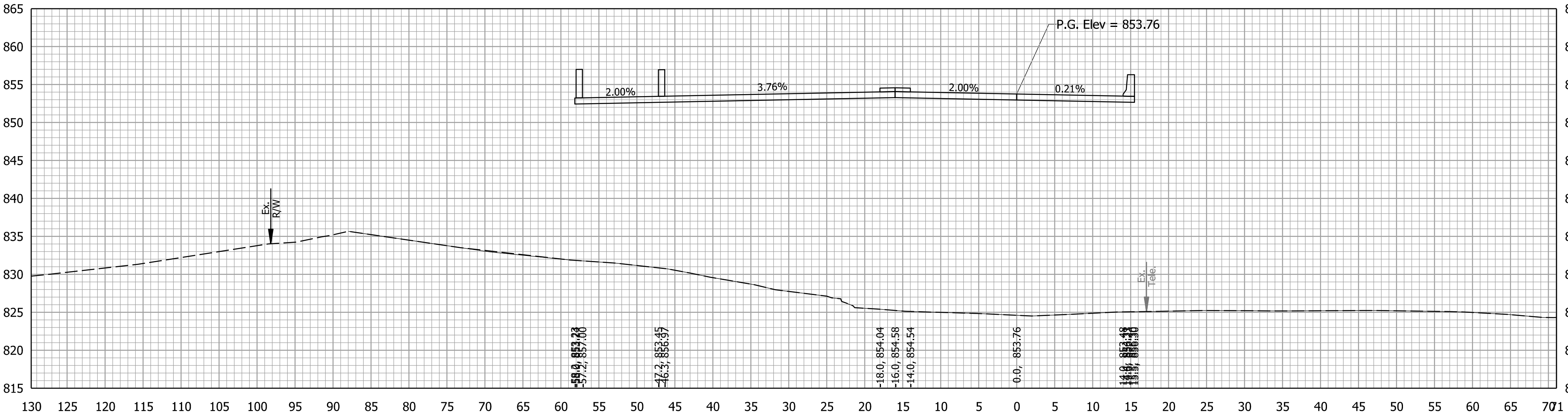
RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

INDIANA DEPARTMENT OF TRANSPORTATION	
CROSS SECTIONS LINE "A"	

BRIDGE FILE	
JOHNSON 602	
SCALE	DESIGNATION
1" = 10'	1801455
SURVEY BOOK	SHEETS
	75 of 82
CONTRACT	PROJECT
B-41320	1801455



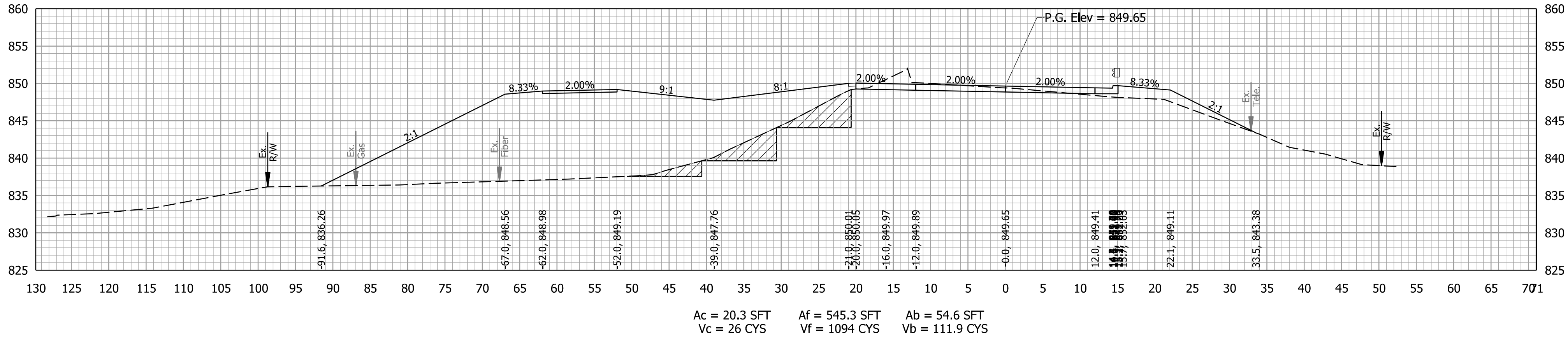
89+25.00



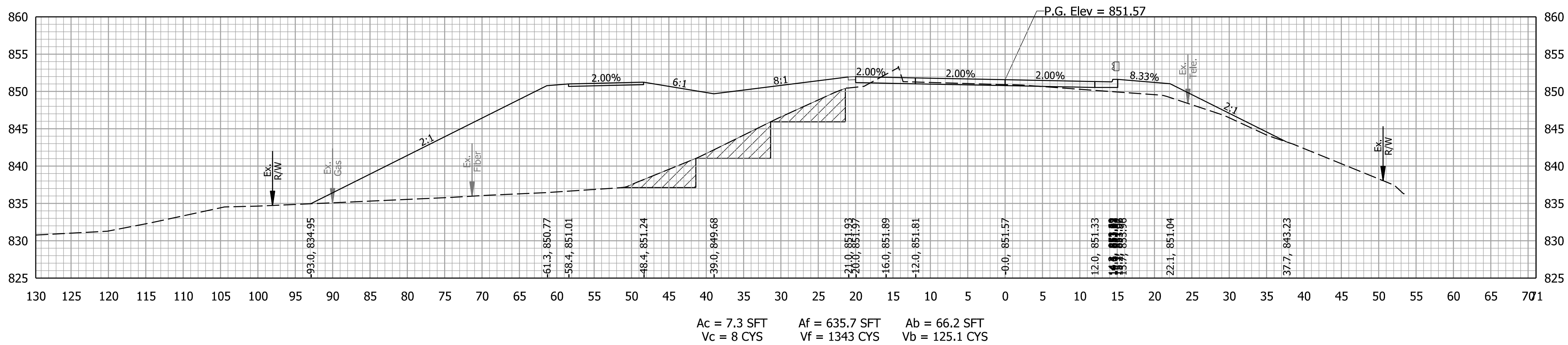
89+00.00

RECOMMENDED FOR APPROVAL			INDIANA DEPARTMENT OF TRANSPORTATION				BRIDGE FILE	
					JOHNSON 602			
				SCALE	DESIGNATION			
				1" = 10'	1801455			
DESIGNED: <u>AJP</u>		DRAWN: <u>AJP</u>	CROSS SECTIONS LINE "A"	SURVEY BOOK		SHEETS		
						76	of	82
CHECKED: <u>JLR</u>		CHECKED: <u>AJP</u>		CONTRACT		PROJECT		
				B-41320		1801455		

CROSS SECTIONS  
LINE "A"

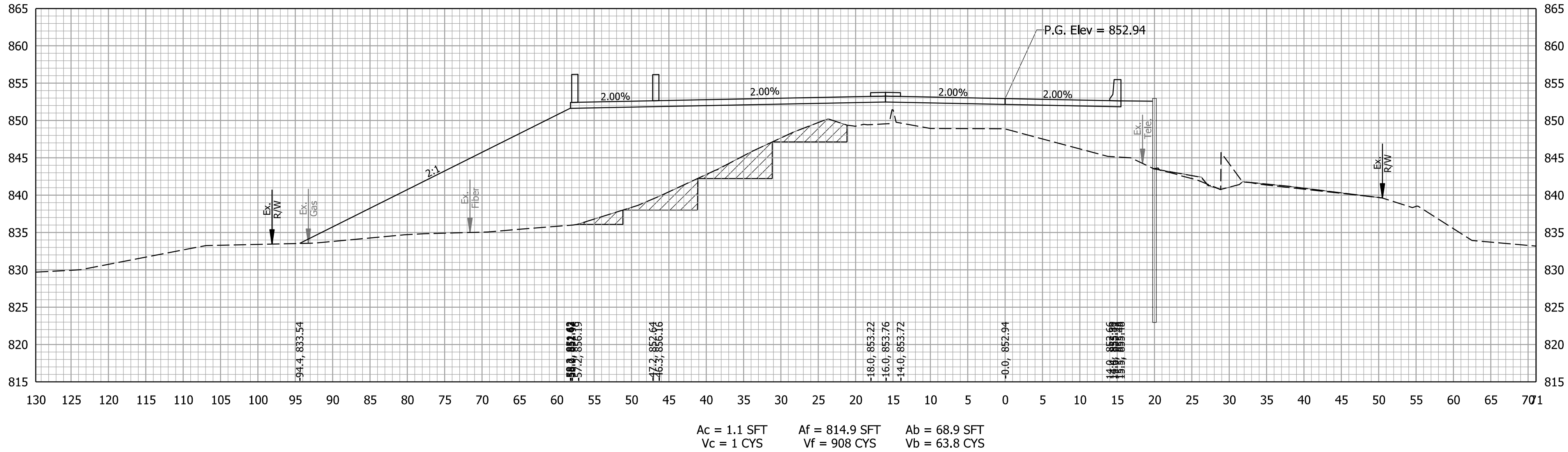


90+50.00



90+00.00

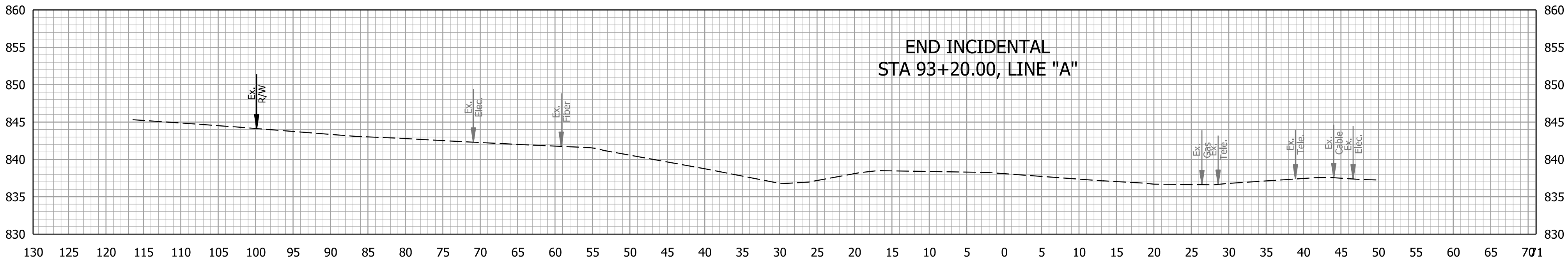
END PAVING EXCEPTION  
STA 89+66.33, LINE "A"



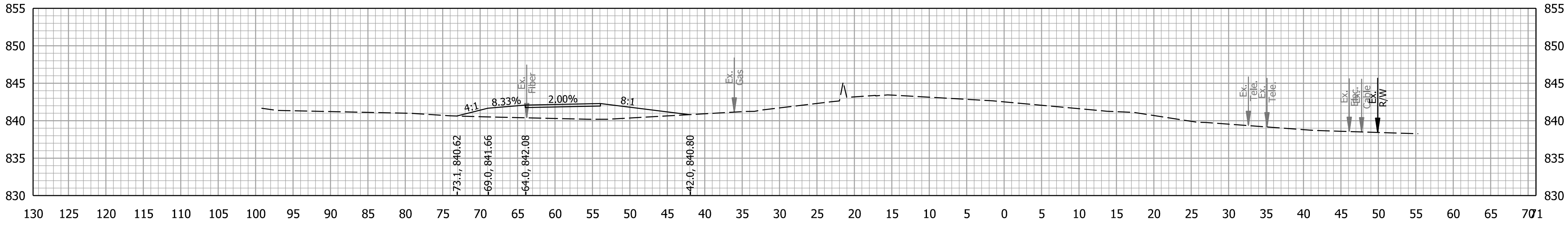
89+50.00

RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE	
				JOHNSON 602	
DESIGNED: AJP		DRAWN: AJP		DESIGNATION	
CHECKED: JLR		CHECKED: AJP		1801455	
		CROSS SECTIONS LINE "A"		SHEETS	
				77 of 82	
				PROJECT	
				1801455	

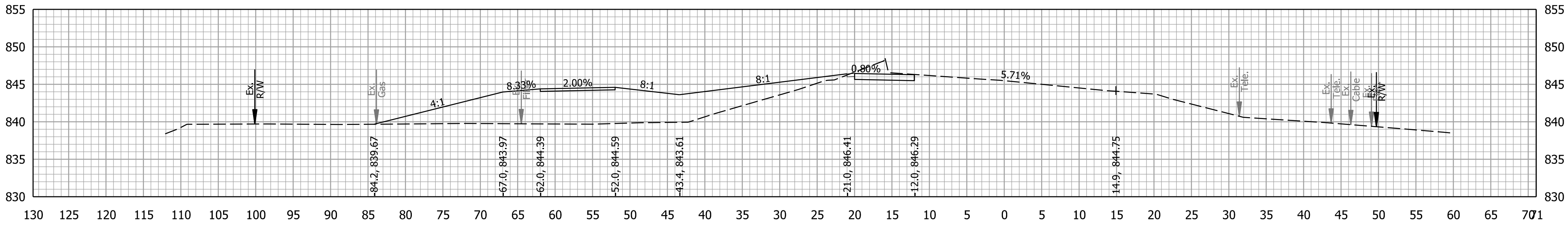




93+00.00



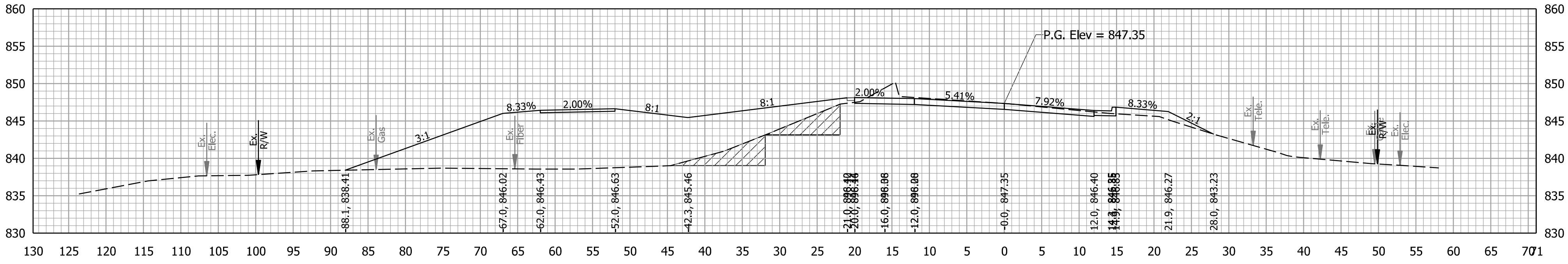
92+00.00



91+40.00

Ac = 0.0 SFT  
Vc = 0 CYS

Af = 0.0 SFT  
Vf = 29 CYS



91+00.00

Ac = 30.5 SFT  
Vc = 47 CYS

Af = 345.4 SFT  
Vf = 825 CYS

Ab = 44.1 SFT  
Vb = 91.4 CYS

RECOMMENDED  
FOR APPROVAL

DESIGN ENGINEER

DATE

DESIGNED: AJP

DRAWN: AJP

CHECKED: JLR

CHECKED: AJP

INDIANA  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
LINE "A"

BRIDGE FILE

JOHNSON 602

SCALE

1" = 10'

1801455

SURVEY BOOK

CONTRACT

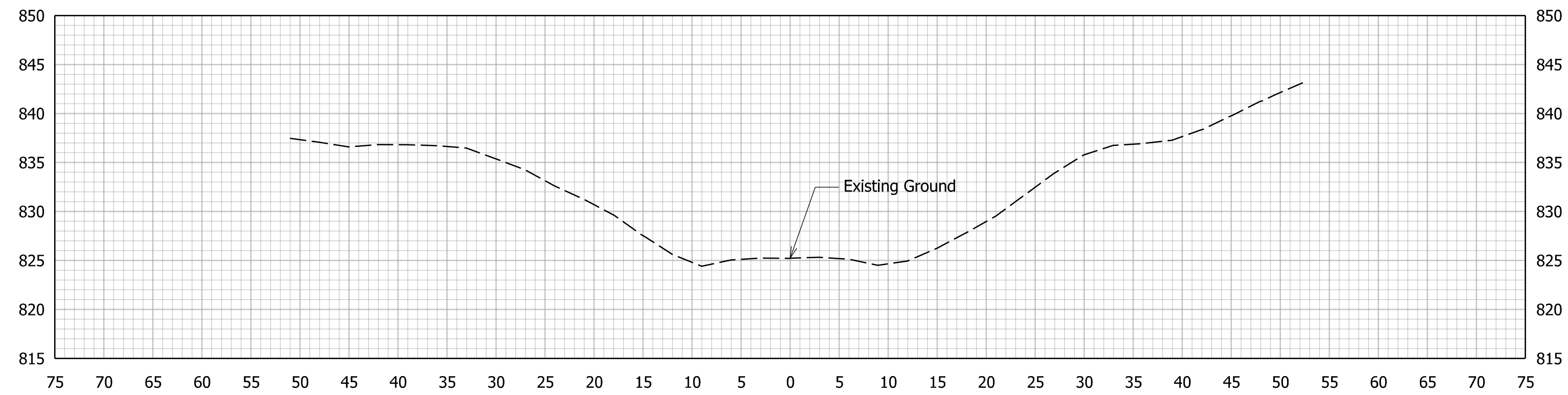
B-41320

SHEETS

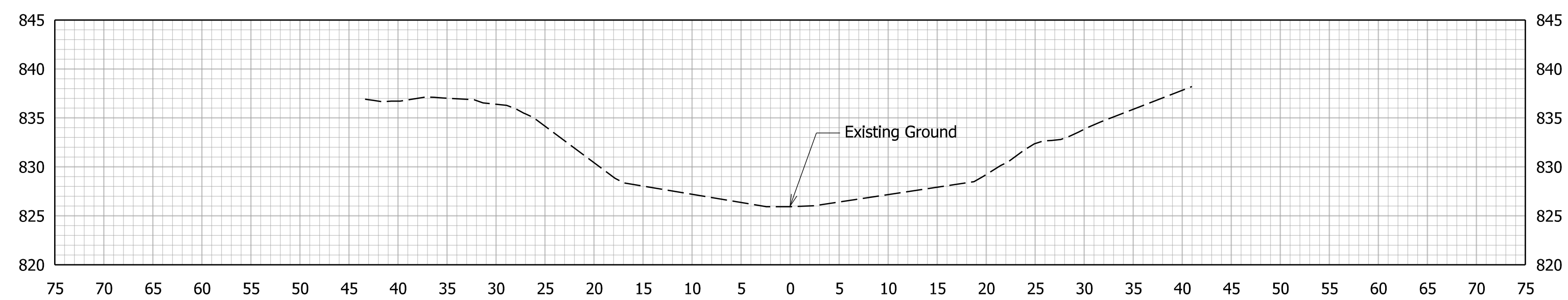
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PROJECT

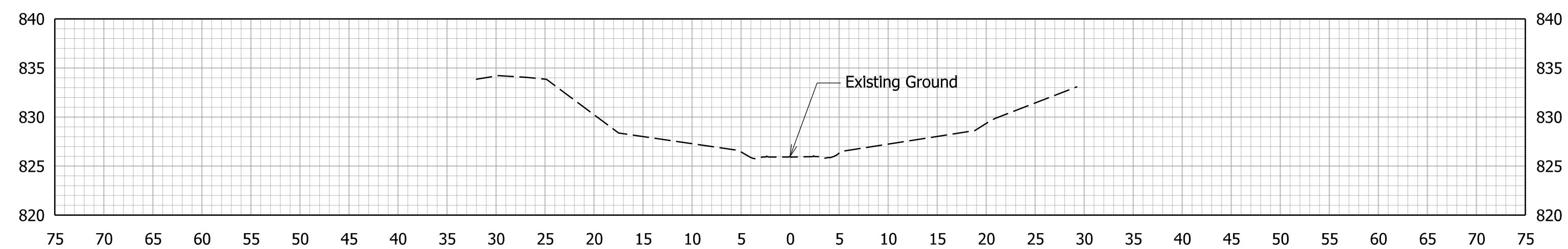
1801455



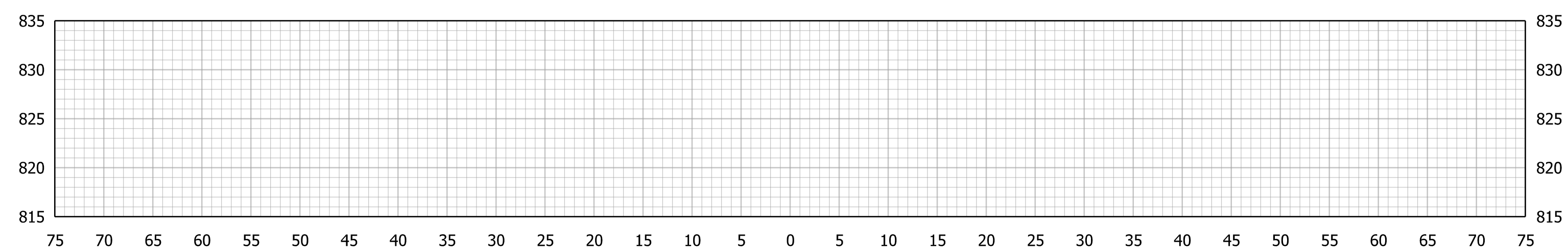
10+00.00



9+75.00



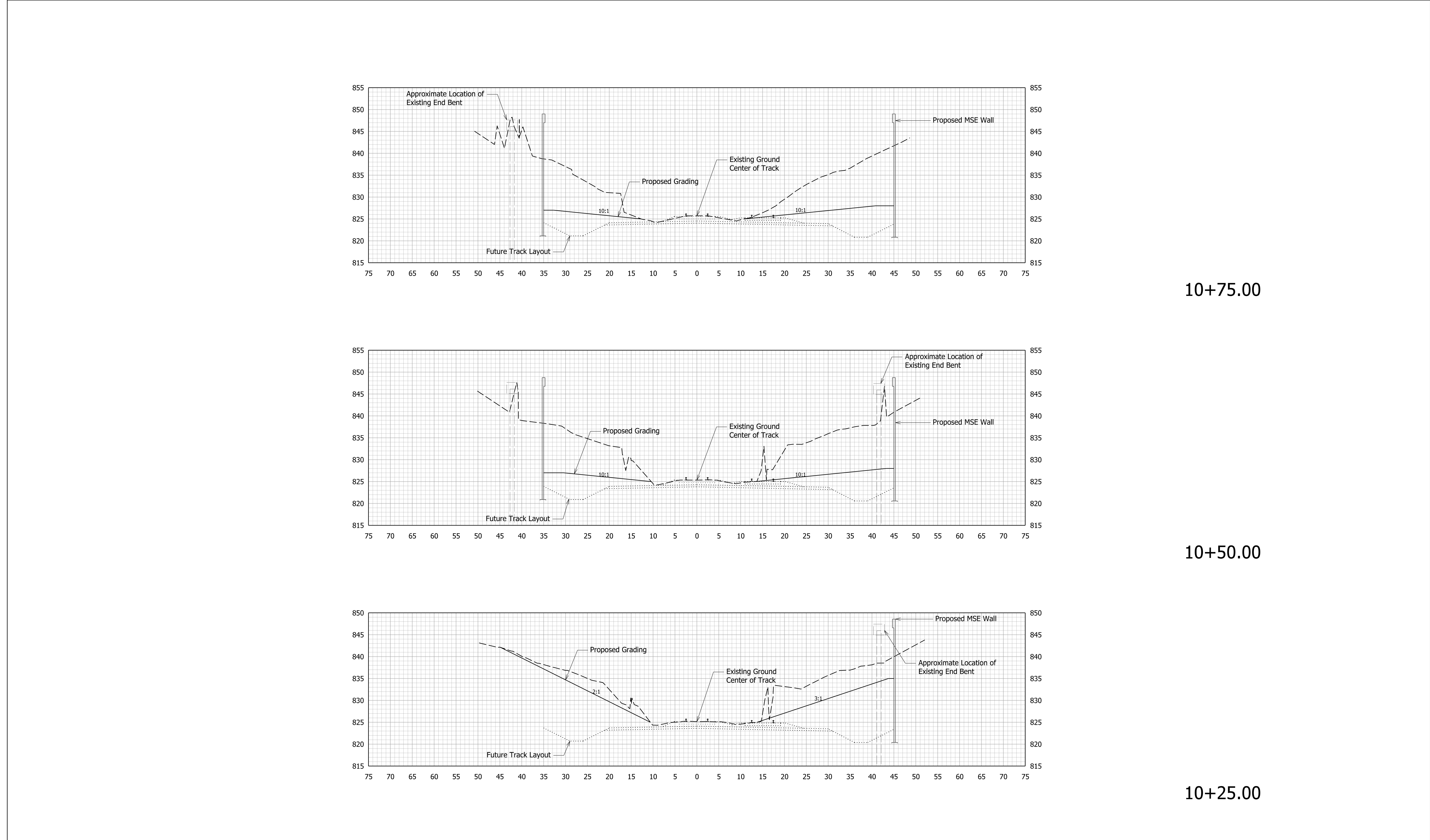
9+50.00



9+26.80

STA. 9+26.80 TO STA. 10+00.00

<div>RECOMMENDED FOR APPROVAL</div> <div>DESIGN ENGINEER</div> <div>DATE</div>	INDIANA DEPARTMENT OF TRANSPORTATION					BRIDGE FILE			
						JOHNSON 602			
					SCALE	DESIGNATION			
					1" = 10'	1801455			
DESIGNED: AJP	DRAWN: AJP	CROSS SECTIONS RAILROAD				SURVEY BOOK		SHEETS	
							79	of	82
CHECKED: JLR	CHECKED: AJP					CONTRACT		PROJECT	
						B-41320		1801455	



10+75.00

10+50.00

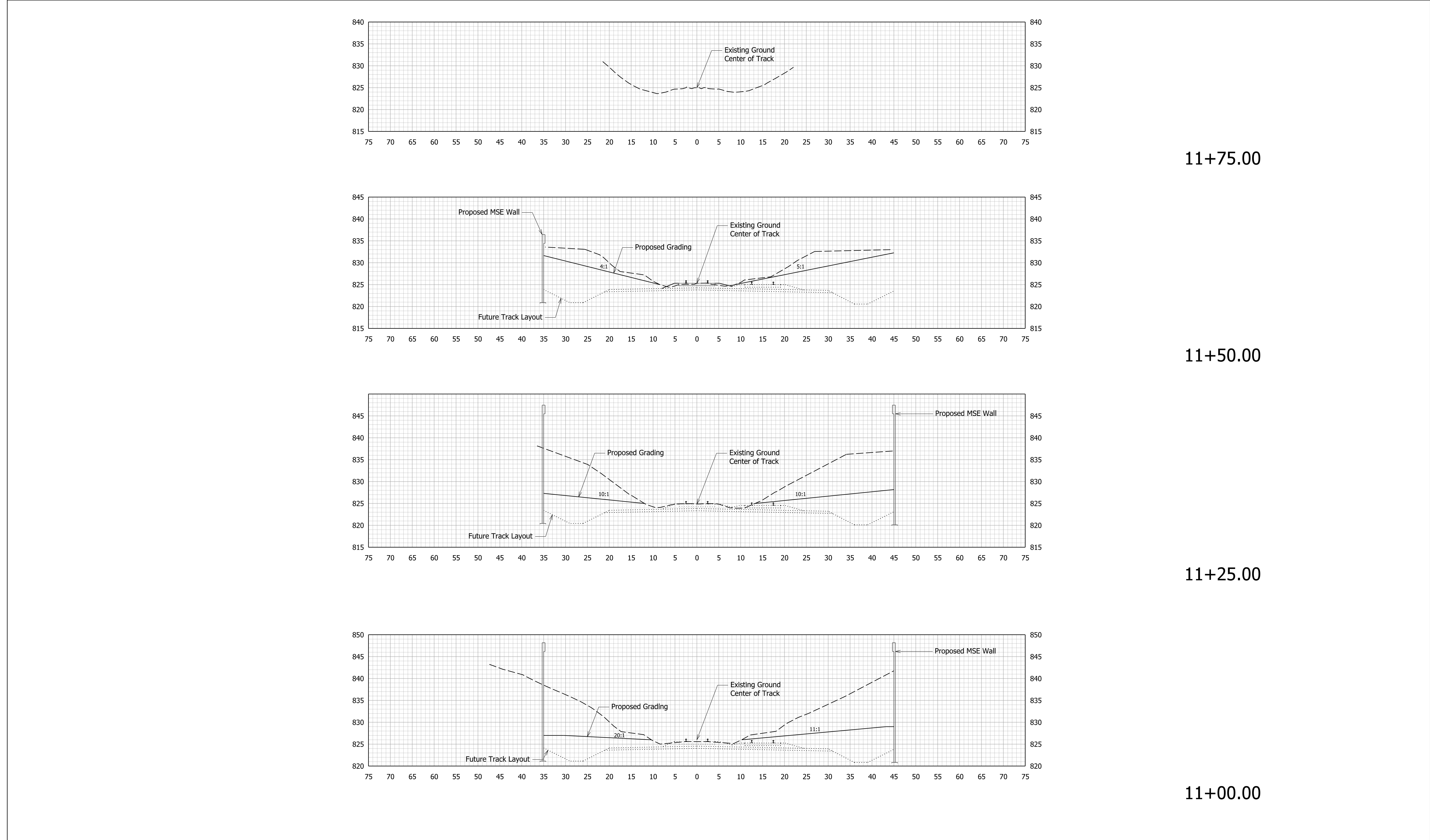
10+25.00

RECOMMENDED FOR APPROVAL	
DESIGN ENGINEER	DATE
DESIGNED: AJP	DRAWN: AJP
CHECKED: JLR	CHECKED: AJP

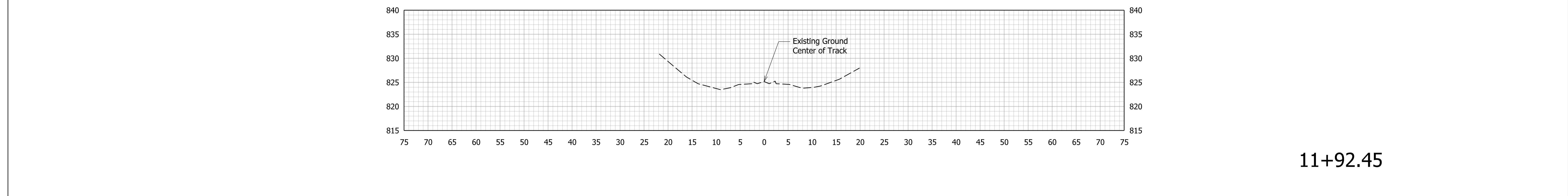
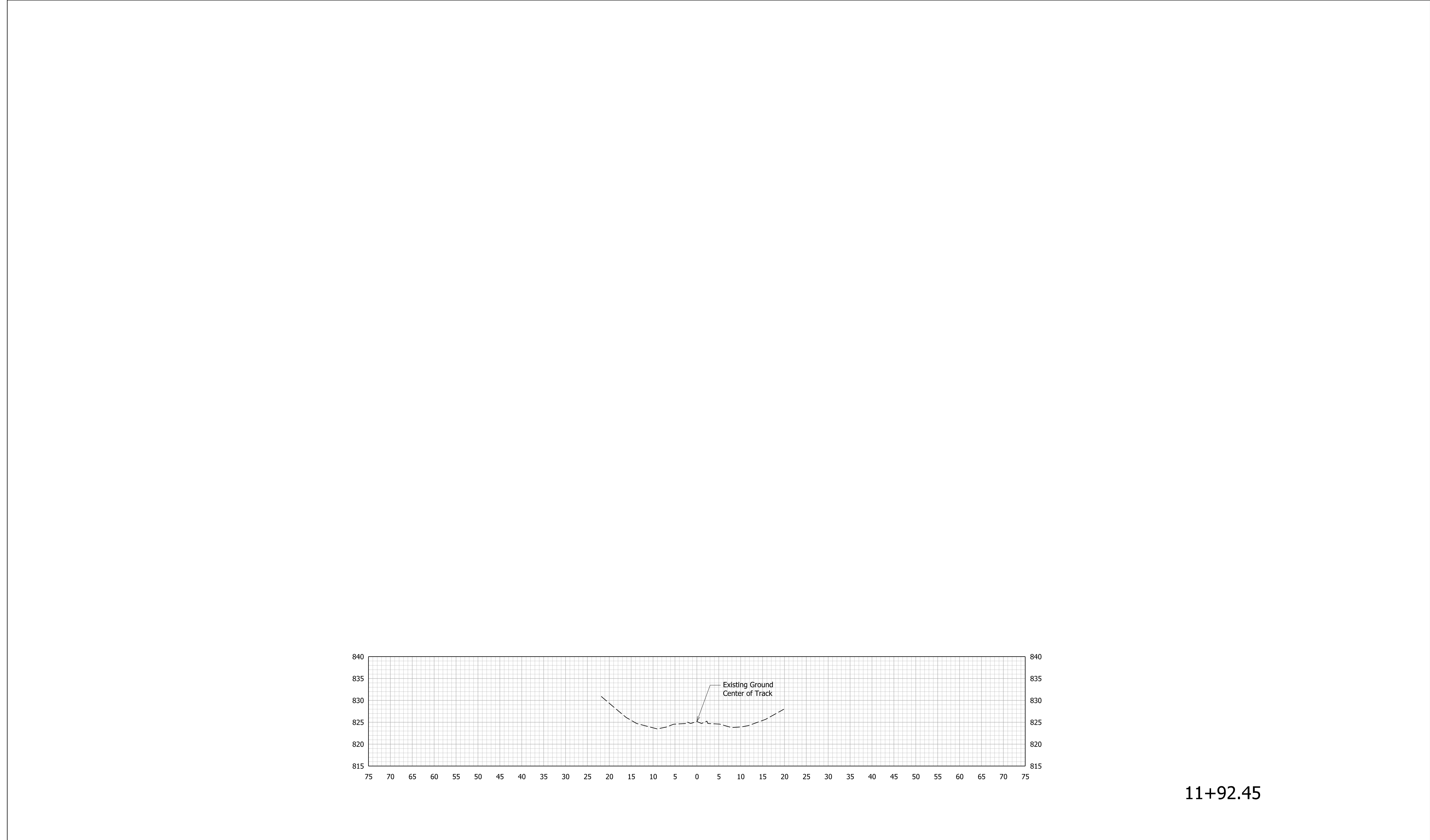
INDIANA DEPARTMENT OF TRANSPORTATION	BRIDGE FILE	
	JOHNSON 602	
CROSS SECTIONS RAILROAD	SCALE	DESIGNATION
	1" = 10'	1801455
	SURVEY BOOK	SHEETS
	CONTRACT	80 of 82
	B-41320	PROJECT

BRIDGE FILE	
JOHNSON 602	
SCALE	DESIGNATION
1" = 10'	1801455
SURVEY BOOK	SHEETS
CONTRACT	80 of 82
B-41320	PROJECT





		RECOMMENDED FOR APPROVAL	INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE				
					JOHNSON 602				
					DESIGNATION				
					1801455				
		DESIGN ENGINEER		DATE		SCALE		1" = 10'	
		DESIGNED: AJP		DRAWN: AJP		SURVEY BOOK			
		CHECKED: JLR		CHECKED: AJP		SHEETS			
						81 of 82			
						CONTRACT			
						B-41320			
				PROJECT					
				1801455					



11+92.45

		RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE	
		DESIGN ENGINEER		DATE		JOHNSON 602	
		DESIGNED: AJP		DRAWN: AJP		SCALE	
		CHECKED: JLR		CHECKED: AJP		1" = 10'	
						SURVEY BOOK	
						82 of 82	
						CONTRACT	
						PROJECT	
						B-41320	
						1801455	