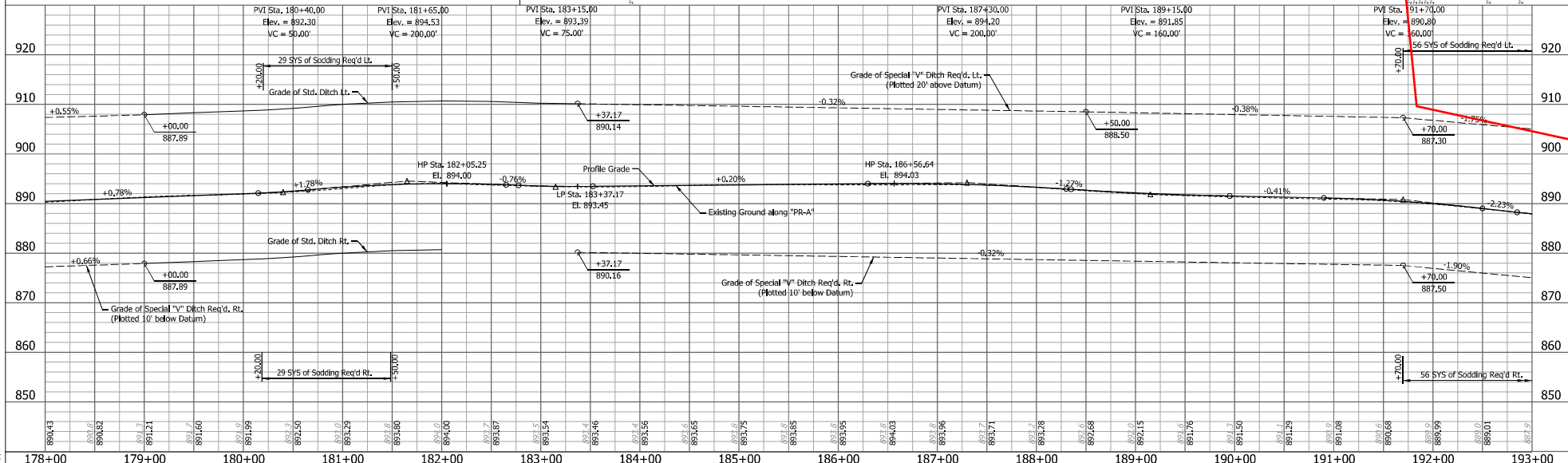
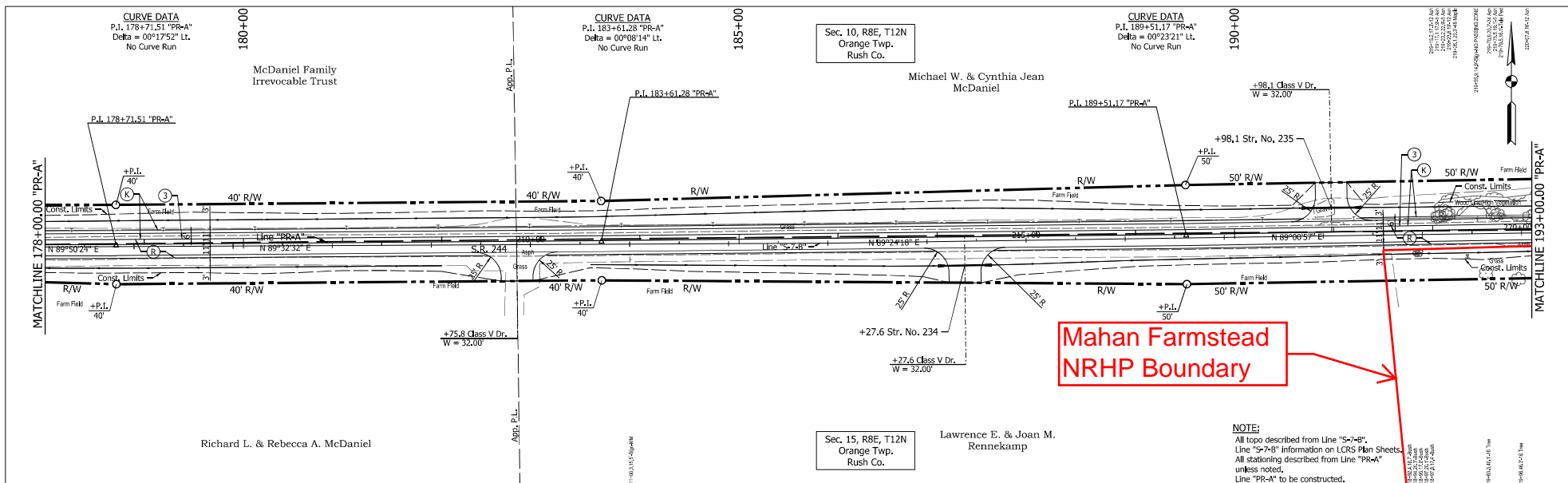
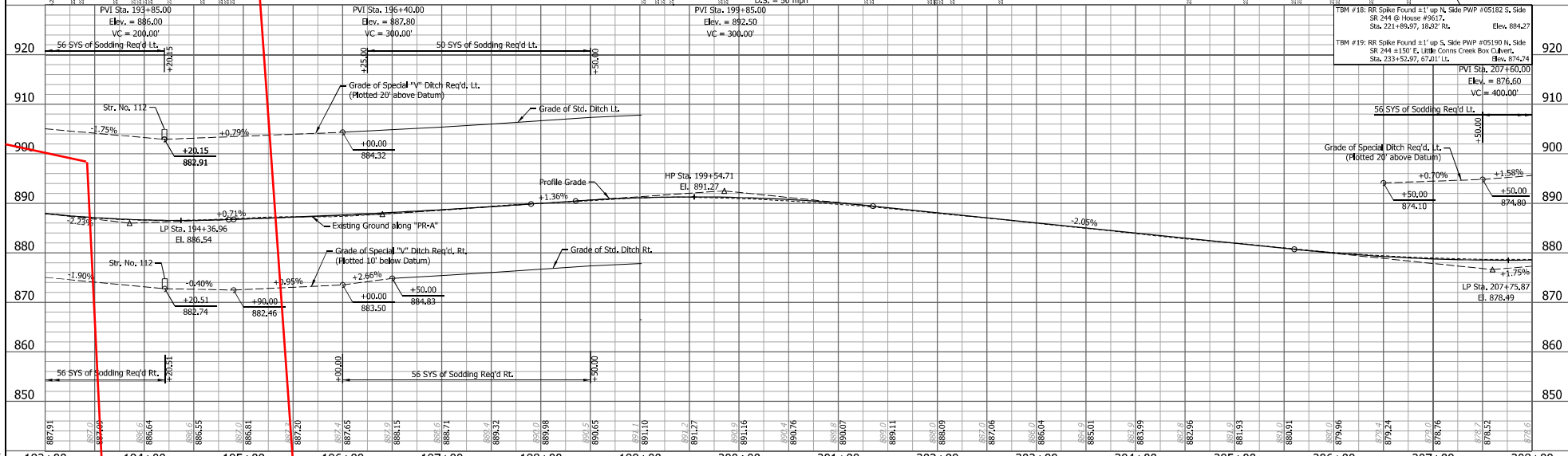
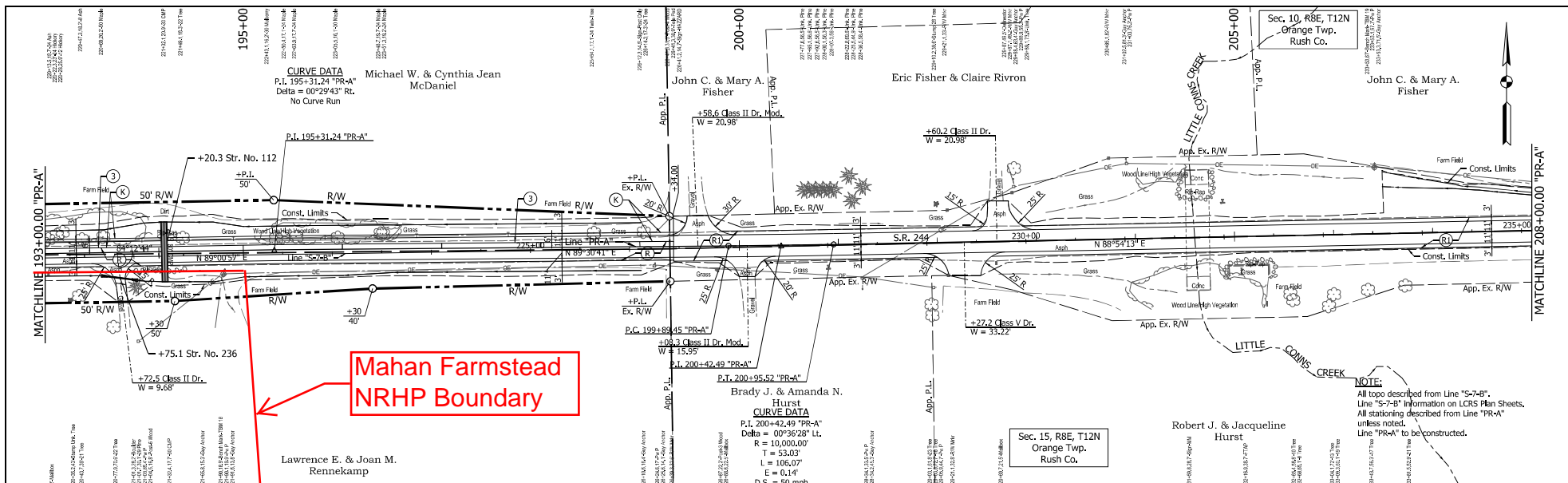


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 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:55:39 PM

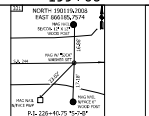


LEGEND (A) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on 660 lb/syd QC/QA-HMA, 2, 64, Base, 19.0 mm on Subgrade Treatment Type IC (B) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on Asphalt Milling, Varskate (1" Max) (C) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on Milling, Asphalt, 1.5" (D) Saw Cut Line			RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____ DESIGNED: SIS DRAWN: SIS CHECKED: CJC CHECKED: CJC	INDIANA DEPARTMENT OF TRANSPORTATION PLAN AND PROFILE S.R. 244 - LINE "PR-A"	HORIZONTAL SCALE 1" = 50' VERTICAL SCALE 1" = 10' SURVEY BOOK _____ CONTRACT R-42264	BRIDGE FILE _____ DESIGNATION 1600801 SHEETS 32 of 229 PROJECT 1600801
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 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:55:48 PM



- LEGEND**
- ① 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on 660 lb/syd QC/QA-HMA, 2, 64, Base, 19.0 mm on Subgrade Treatment Type IC
 - ② Saw Cut Line
 - ③ 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on Asphalt Milling, Variatek (4" Max)

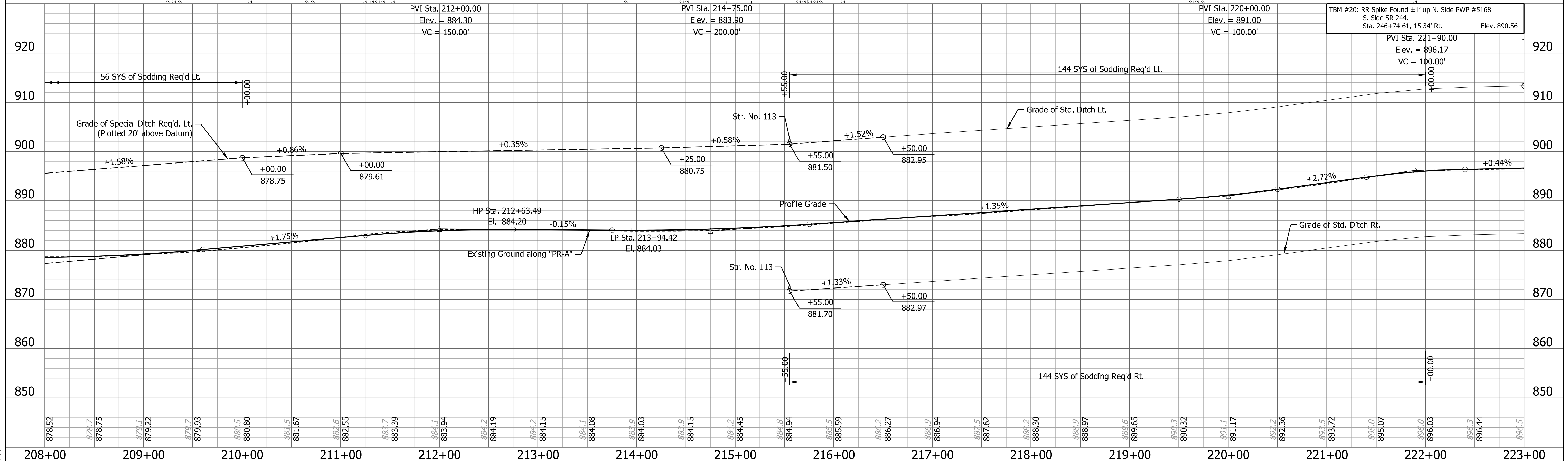
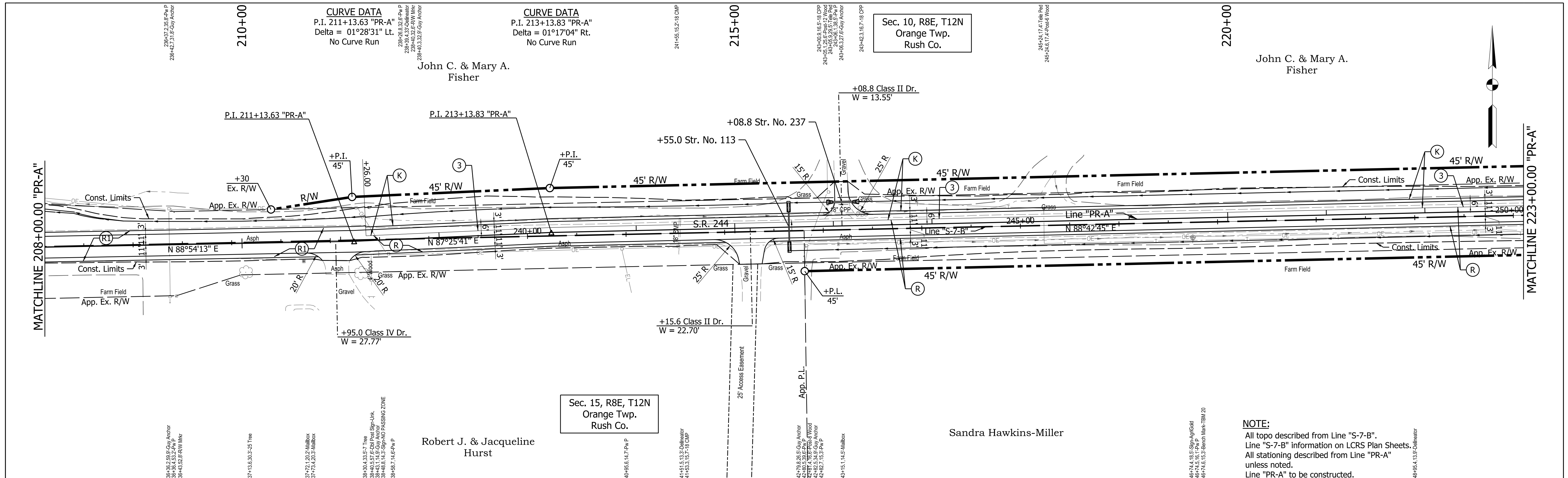


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SIS	DRAWN: SIS	
CHECKED: CJC	CHECKED: CJC	

INDIANA
DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE
S.R. 244 - LINE "PR-A"

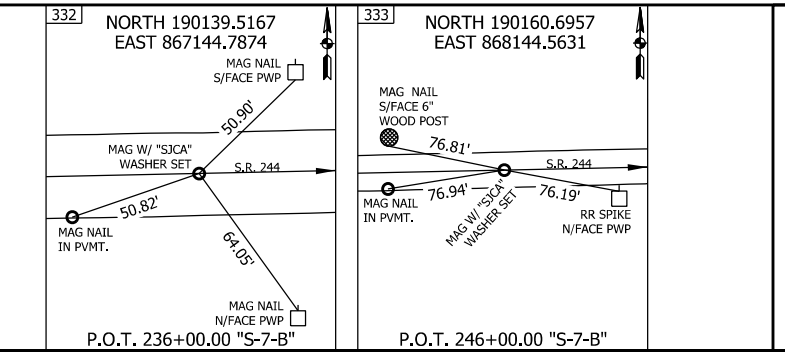
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1600801
SURVEY BOOK	SHEETS
	33 of 229
CONTRACT	PROJECT
R-42264	1600801

PATH AND FILENAME: V:\Projects\ANY\K5\060242.000\09_Design-DWG\Drawings\Hwy\MSTN\Sheet Drawings\Site Plan\Prof_50_17.dgn
 MODEL NAME: Sheet
 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:55:57 PM



LEGEND

(K)	165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on 660 lb/syd QC/QA-HMA, 2, 64, Base, 19.0 mm on Subgrade Treatment Type IC
(R)	165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on Asphalt Milling, Variable (4" Max)
(R1)	165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on Milling, Asphalt, 1.5"
(3)	Saw Cut Line



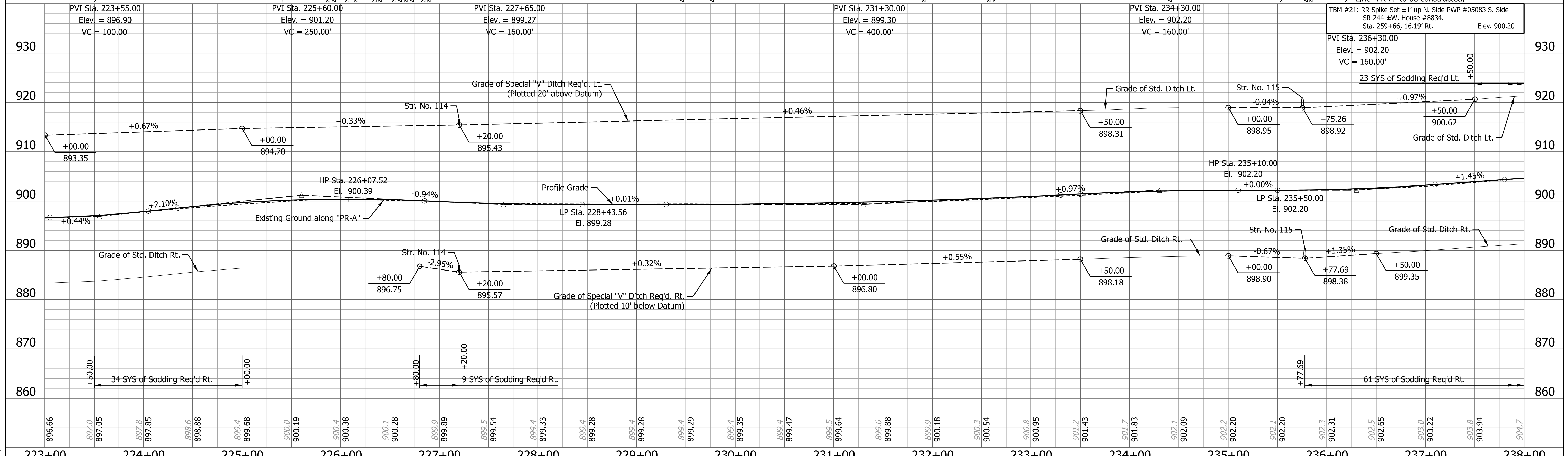
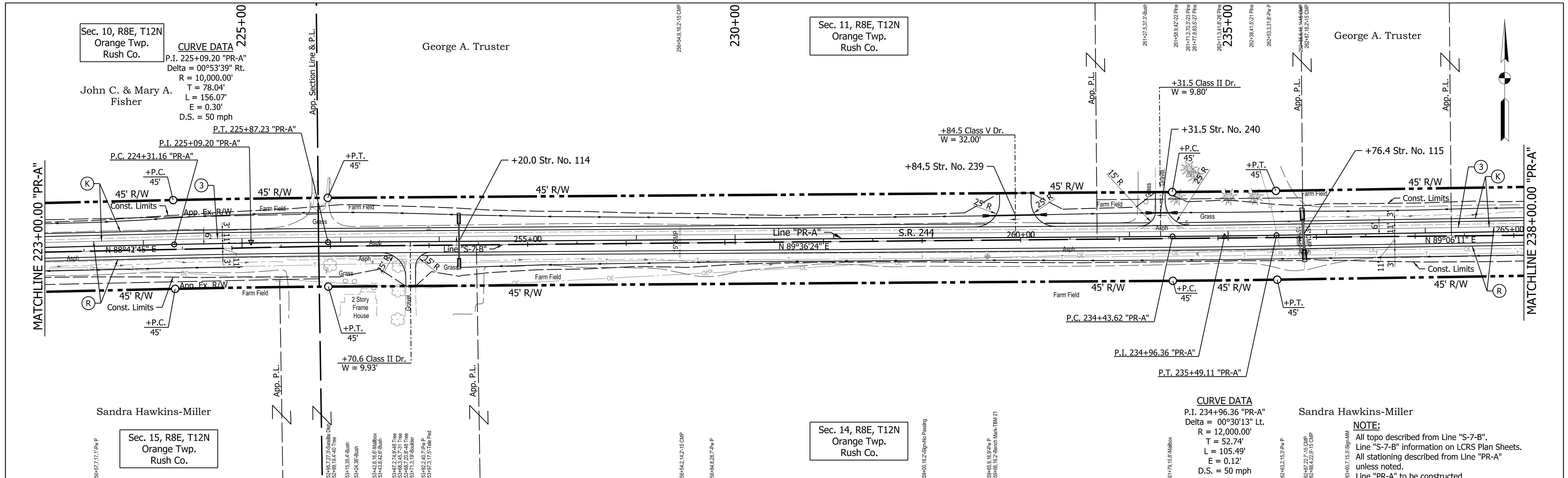
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SJS	DRAWN: JSS	
CHECKED: CJC	CHECKED: CJC	

INDIANA DEPARTMENT OF TRANSPORTATION

**PLAN AND PROFILE
S.R. 244 - LINE "PR-A"**

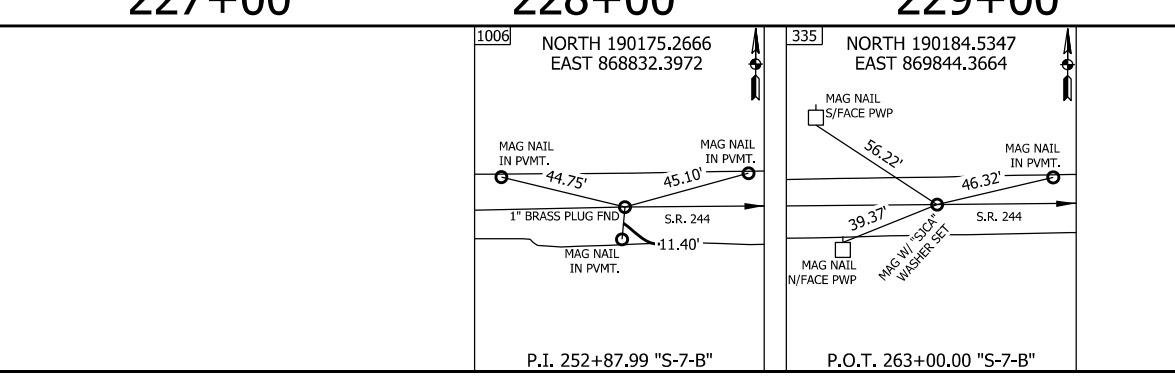
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1600801
SURVEY BOOK	SHEETS
	34 of 229
CONTRACT	PROJECT
R-42264	1600801

PATH AND FILENAME: V:\Projects\ANY\K5\060242.000\09_Design-DWG\Drawings\Hwy\MSTN\Sheet Drawings\Site Plan\Prof_50_18.dgn
 MODEL NAME: Sheet
 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:56:06 PM



LEGEND

(K) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on 660 lb/syd QC/QA-HMA, 2, 64, Base, 19.0 mm on Subgrade Treatment Type IC	(R1) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on Milling, Asphalt, 1.5"
(R) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on Asphalt Milling, Variable (4" Max)	(3) Saw Cut Line



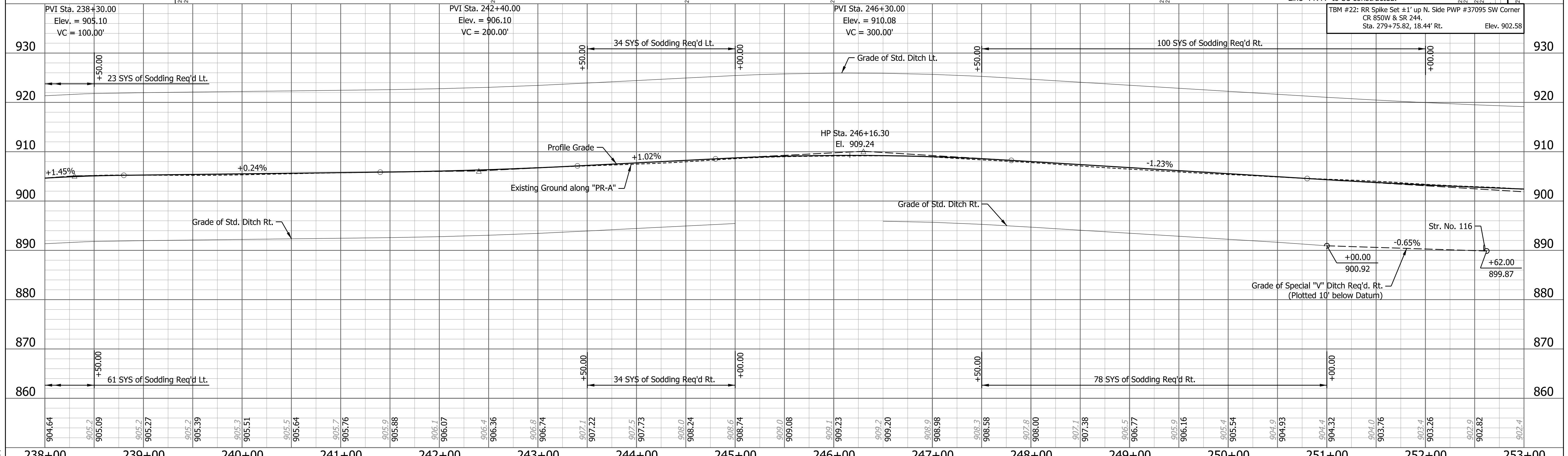
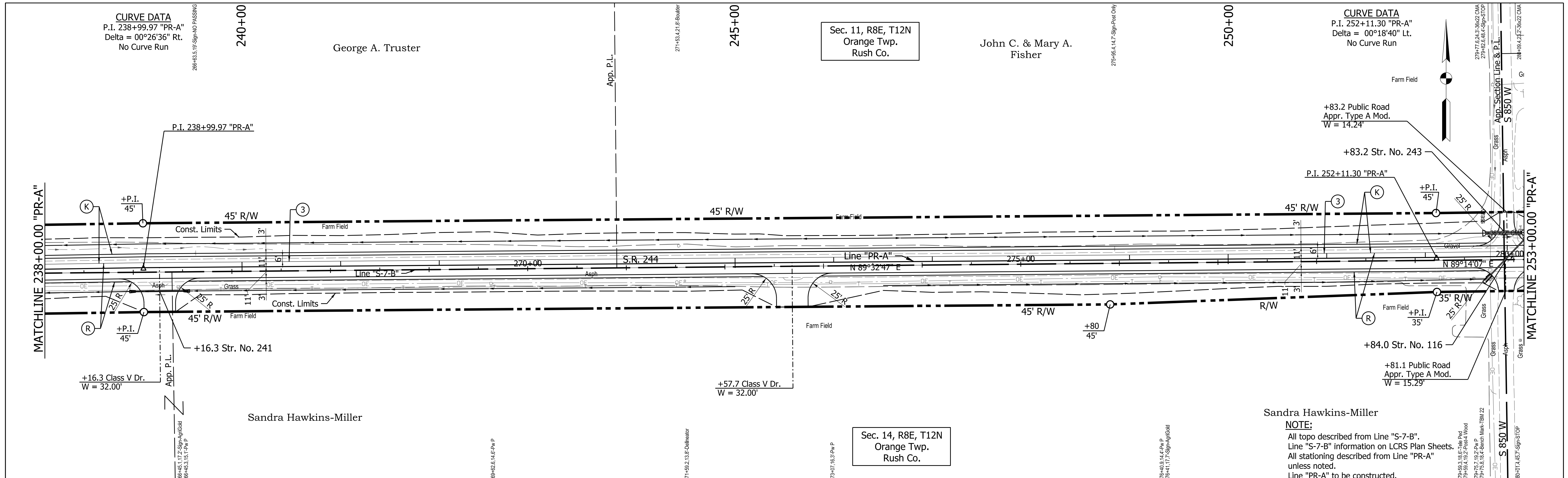
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SJS	DRAWN: JSS	
CHECKED: CJC	CHECKED: CJC	

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1600801
SURVEY BOOK	SHEETS
	35 of 229
CONTRACT	PROJECT
R-42264	1600801

PATH AND FILENAME: V:\Projects\ANY\K5\060242.000\09_Design-DWG\Drawings\Hwy\MSTN\Sheet Drawings\Sht PlanProf_50_19.dgn
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 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:56:18 PM



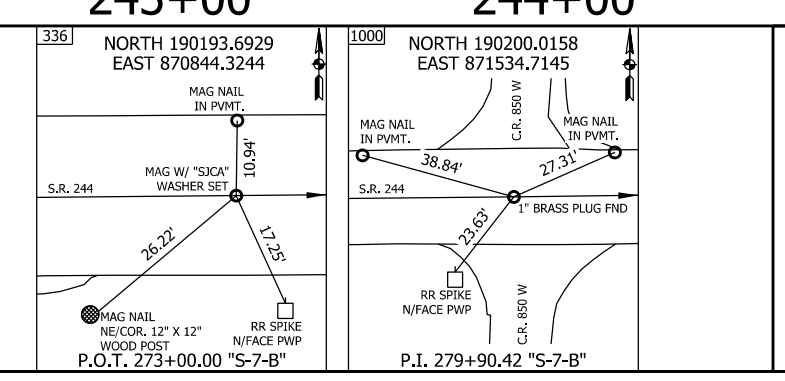
LEGEND

(K) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on 660 lb/syd QC/QA-HMA, 2, 64, Base, 19.0 mm on Subgrade Treatment Type IC

(R) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on Asphalt Milling, Variable (4" Max)

(R1) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on Milling, Asphalt, 1.5"

(3) Saw Cut Lane



RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____

DESIGNED: SJS DRAWN: JSS

CHECKED: CJC CHECKED: CJC

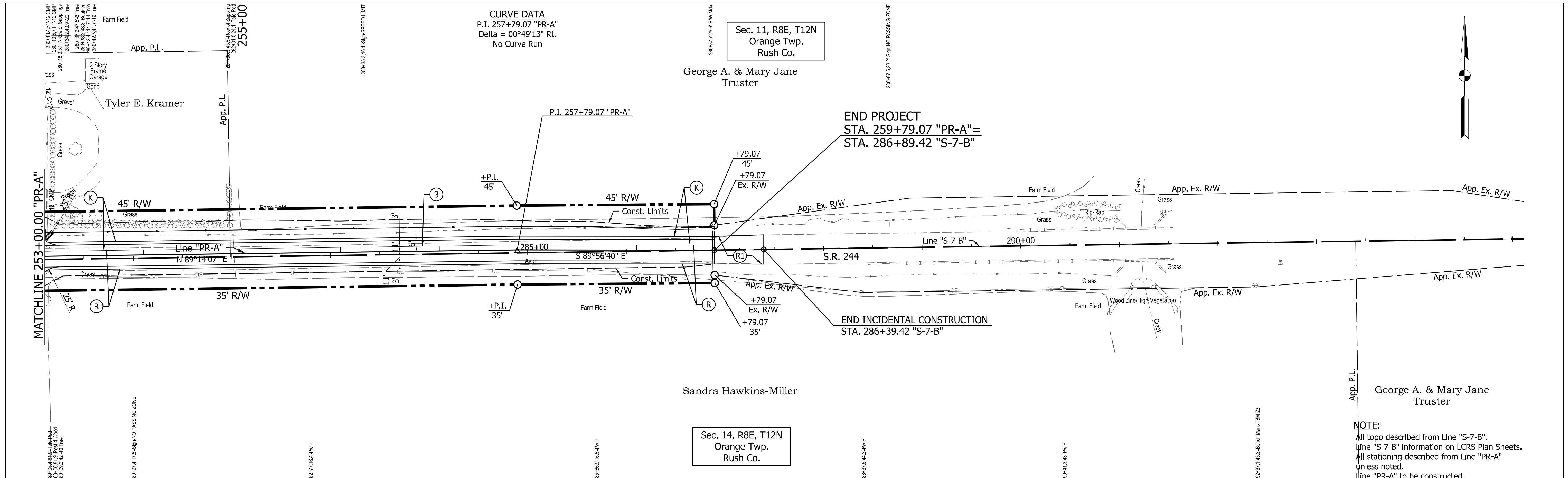
INDIANA DEPARTMENT OF TRANSPORTATION

**PLAN AND PROFILE
S.R. 244 - LINE "PR-A"**

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 36 of 229
CONTRACT R-42264	PROJECT 1600801

NOTE:
 All topo described from Line "S-7-B".
 Line "S-7-B" information on LCRS Plan Sheets.
 All stationing described from Line "PR-A"
 unless noted.
 Line "PR-A" to be constructed.

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 TIME PLOTTED: 3:56:26 PM



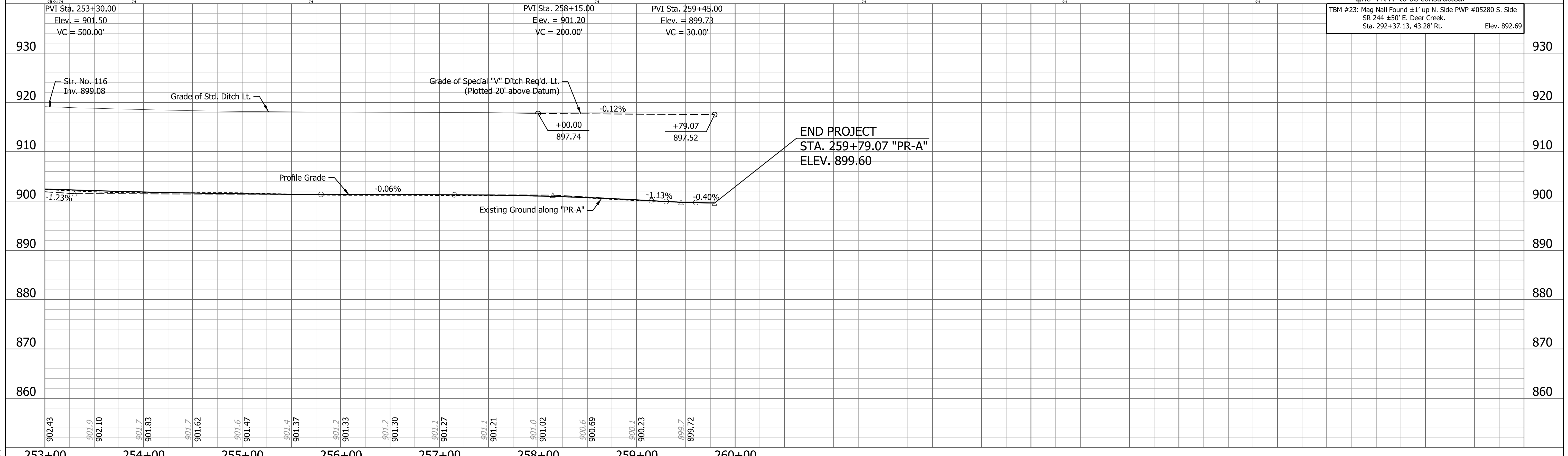
CURVE DATA
 P.I. 257+79.07 "PR-A"
 Delta = 00°49'13" Rt.
 No Curve Run

Sec. 11, R8E, T12N
 Orange Twp.
 Rush Co.

Sandra Hawkins-Miller

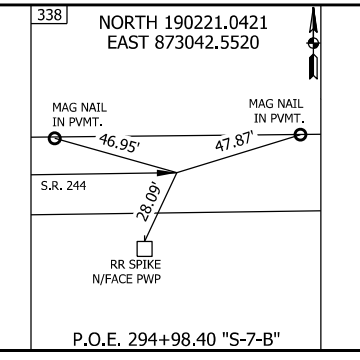
Sec. 14, R8E, T12N
 Orange Twp.
 Rush Co.

NOTE:
 All topo described from Line "S-7-B".
 Line "S-7-B" information on LCRS Plan Sheets.
 All stationing described from Line "PR-A"
 unless noted.
 Line "PR-A" to be constructed.



Station	Elevation
253+00	902.43
254+00	901.0
254+00	902.10
254+00	901.7
254+00	901.83
255+00	901.7
255+00	901.62
255+00	901.6
255+00	901.47
256+00	901.4
256+00	901.37
256+00	901.33
257+00	901.2
257+00	901.30
257+00	901.1
257+00	901.27
258+00	901.1
258+00	901.21
258+00	901.0
258+00	901.02
259+00	900.6
259+00	900.69
259+00	900.1
259+00	900.23
260+00	899.7
260+00	899.72

- LEGEND**
- (K) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on 660 lb/syd QC/QA-HMA, 2, 64, Base, 19.0 mm on Subgrade Treatment Type IC
 - (R) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on Asphalt Milling, Variable (4" Max)
 - (R1) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on Milling, Asphalt, 1.5"
 - (3) Saw Cut Line



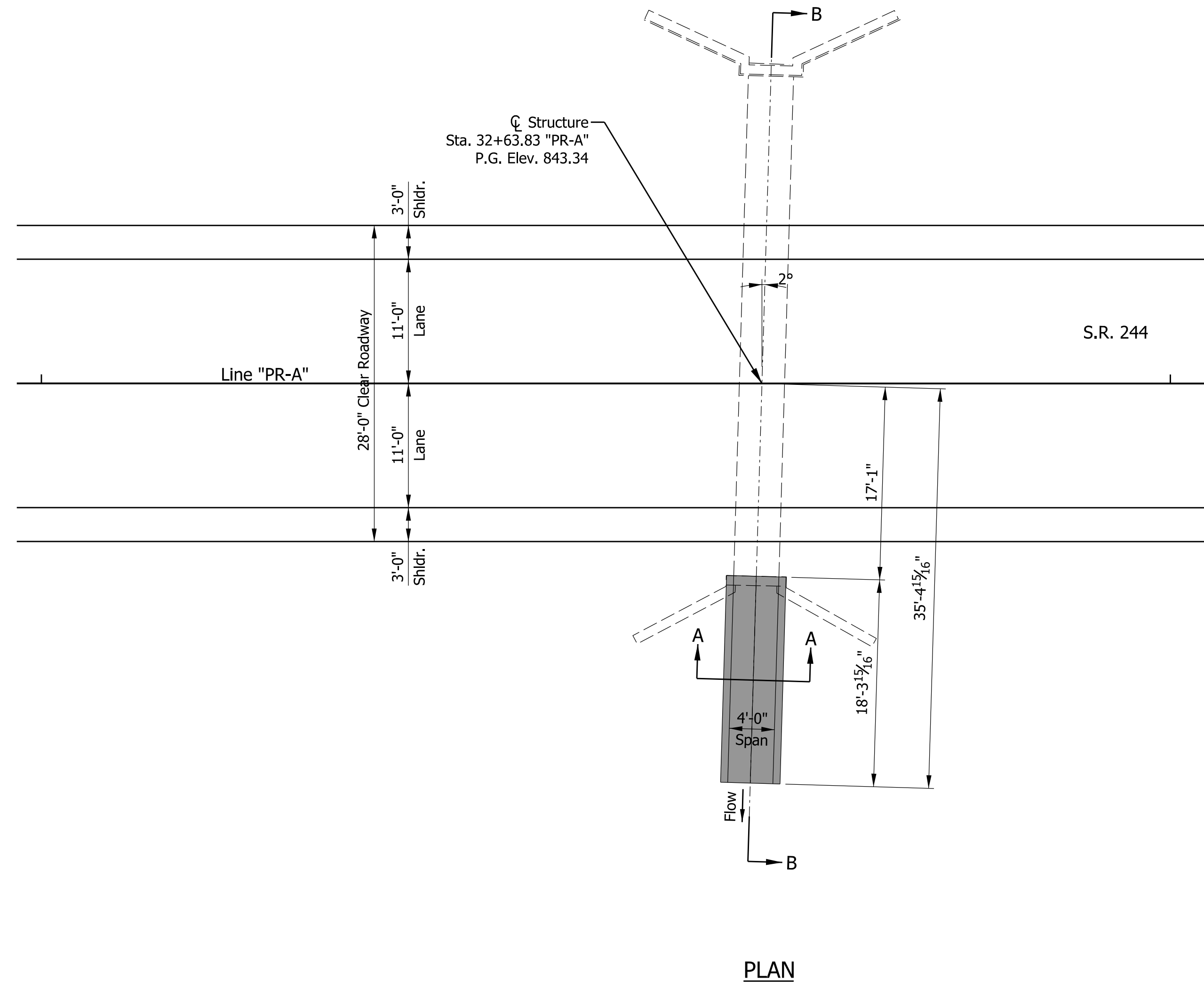
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SJS	DRAWN: JSS	
CHECKED: CJC	CHECKED: CJC	

INDIANA DEPARTMENT OF TRANSPORTATION

**PLAN AND PROFILE
S.R. 244 - LINE "PR-A"**

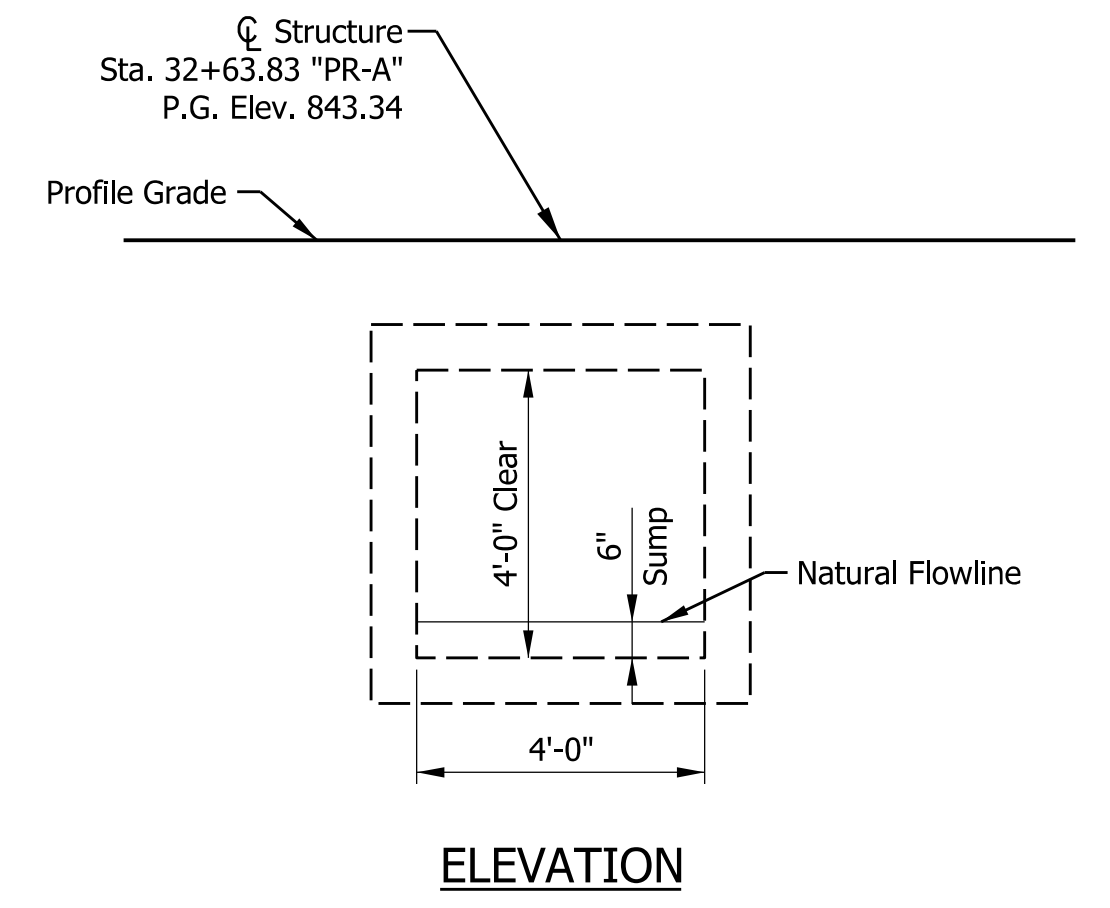
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 37 of 229
CONTRACT R-42264	PROJECT 1600801

PATH AND FILENAME: V:\Projects\ANY\K5\060242.000\09_Design+DWG\Drawings\Hwy\MSTN\Sheet Drawings\Str Culvert GenPlan_01.dgn
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 TIME PLOTTED: 3:56:33 PM

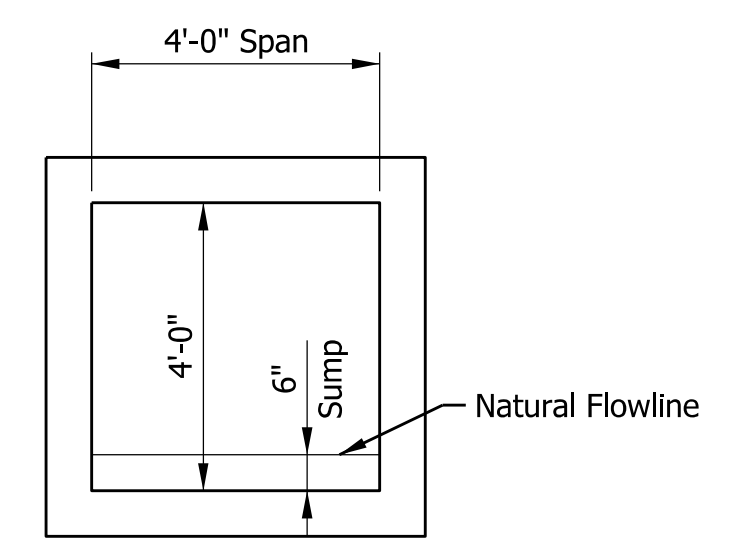


PLAN

NOTE: See next sheet for Section B-B.



ELEVATION



SECTION A-A

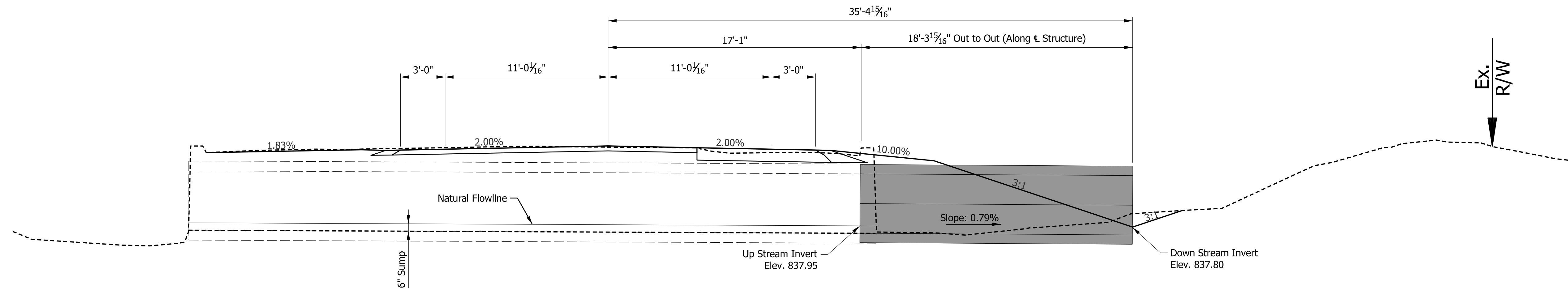
PRECAST REINFORCED CONCRETE BOX
 S.R. 244 OVER UNNAMED TRIBUTARY
 4' SPAN, 4' RISE, 2° SKEW
 SHELBY COUNTY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SJS	DRAWN: JSS	
CHECKED: SWK	CHECKED: SWK	

INDIANA
 DEPARTMENT OF TRANSPORTATION

 GENERAL PLAN
 STR. NO. 102

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	
VERTICAL SCALE	DESIGNATION
	1600801
SURVEY BOOK	SHEETS
	38 of 229
CONTRACT	PROJECT
R-42264	1600801



SECTION B-B

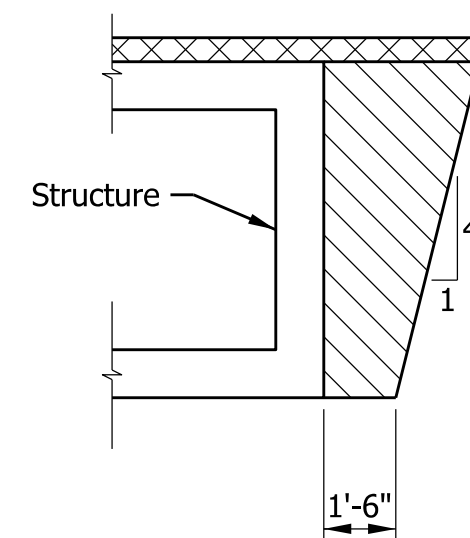
DESIGN DATA

Live Loads: Structure designed for HL-93 loading with impact and distribution of loads in accordance with the 2012 AASHTO LFRD Bridge Design Specifications, 6th Edition, with subsequent interims.

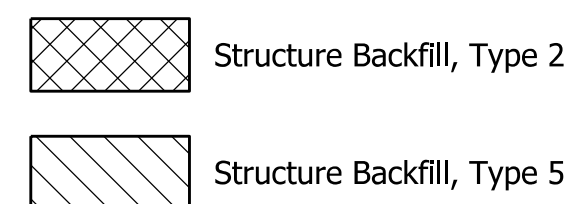
Design Strength:
 Class "C" Concrete F'C = 4,000 psi
 Class "A" Concrete F'C = 3,500 psi
 Class "C" Concrete F'C = 3,000 psi
 Reinforcing Steel FY = 60,000 psi

Dead Loads: Actual weight plus 35 lbs/sft for future wearable surface.

Seismic Load: Designed for Seismic Performance Zone 1.



TYPICAL EXCAVATION & BACKFILL LIMITS AT STRUCTURE



GENERAL NOTES

- Contractor shall verify the existing flowline elevation to set the appropriate sump depth.
- Chamfer exposed edges 1", unless noted.

PATH AND FILENAME: V:\Projects\ANY\K5\060242.000\09_Design-DWG\Drawings\Hwy\MSTN\Sheet Drawings\Sht Culvert XS_01.dgn
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 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:56:34 PM

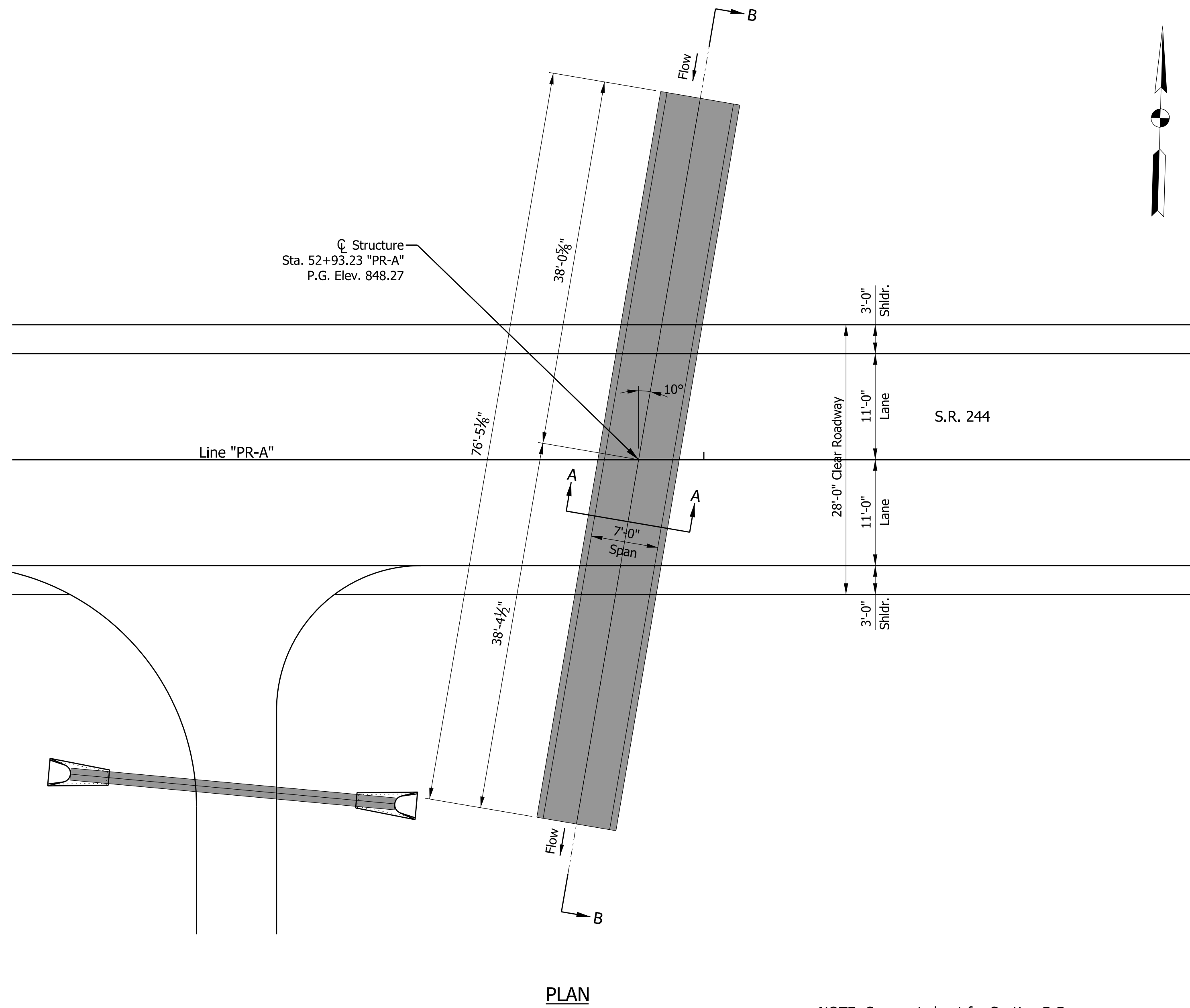
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SJS	DRAWN: JSS	
CHECKED: SWK	CHECKED: SWK	

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STR. NO. 102

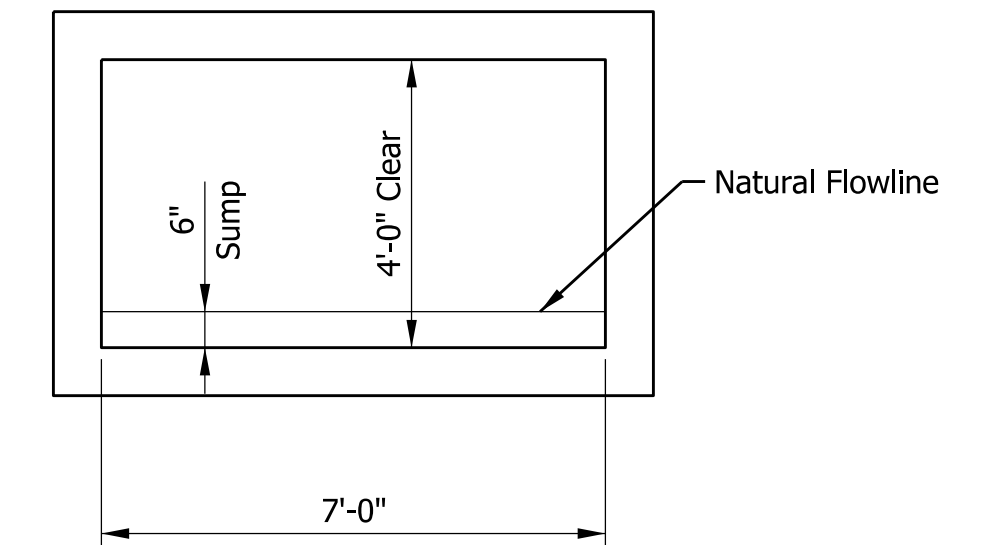
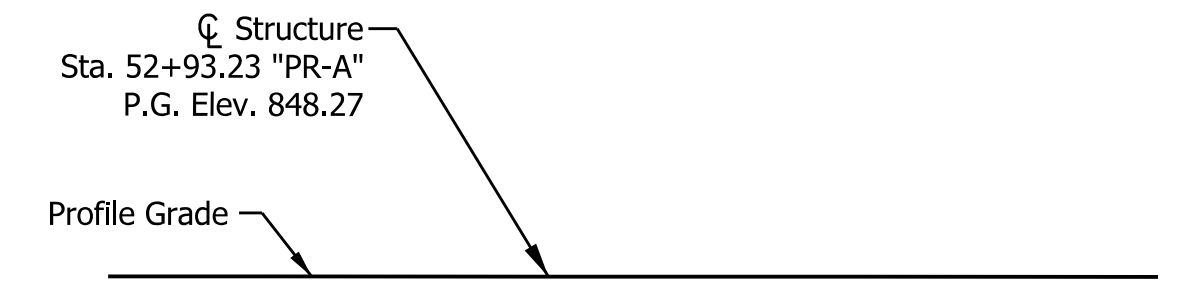
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	
VERTICAL SCALE	DESIGNATION
	1600801
SURVEY BOOK	SHEETS
	39 of 229
CONTRACT	PROJECT
R-42264	1600801

PATH AND FILENAME: V:\Projects\ANY\K5\060242.000\09_Design+DWG\Drawings\Hwy\MSTN\Sheet Drawings\Site Culvert GenPlan_02.dgn
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 TIME PLOTTED: 3:56:35 PM

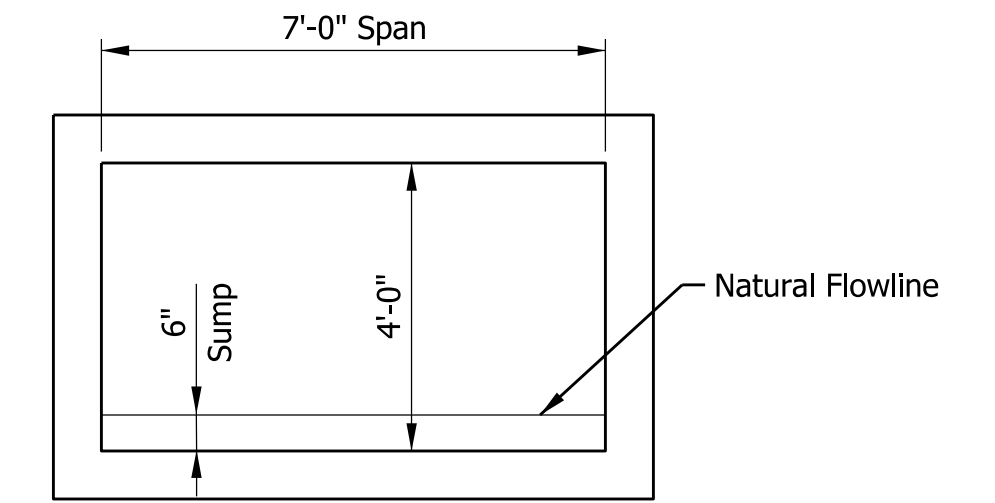


PLAN

NOTE: See next sheet for Section B-B.



ELEVATION



SECTION A-A

PRECAST REINFORCED CONCRETE BOX
 S.R. 244 OVER UNNAMED TRIBUTARY
 7' SPAN, 4' RISE, 10° SKEW
 SHELBY COUNTY

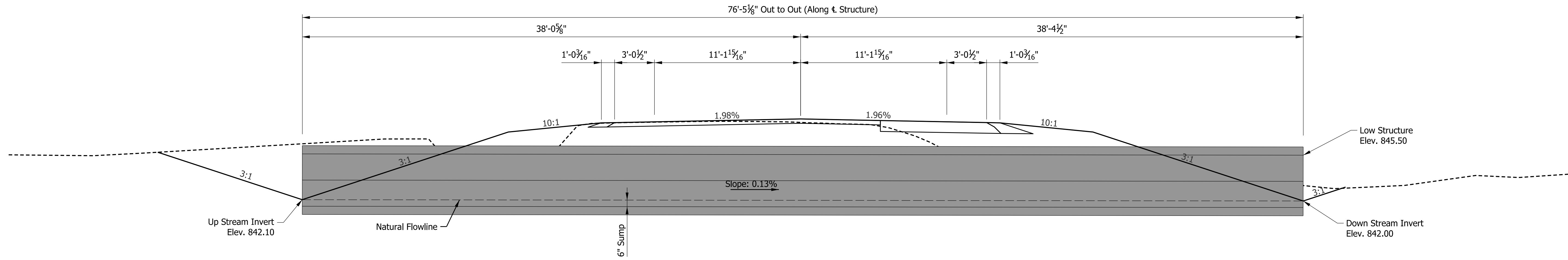
RECOMMENDED FOR APPROVAL _____		DESIGN ENGINEER _____	DATE _____
DESIGNED: SJS	DRAWN: JSS		
CHECKED: SWK	CHECKED: SWK		

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
STR. NO. 103

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	
VERTICAL SCALE	DESIGNATION
	1600801
SURVEY BOOK	SHEETS
	40 of 229
CONTRACT	PROJECT
R-42264	1600801

PATH AND FILENAME: V:\Projects\ANY\K5\060242.000\09_Design-DWG\Drawings\Hwy\MSTN\Sheet Drawings\Sht Culvert XS_02.dgn
 MODEL NAME: Sheet
 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:56:38 PM



SECTION B-B

DESIGN DATA

Live Loads: Structure designed for HL-93 loading with impact and distribution of loads in accordance with the 2012 AASHTO LFRD Bridge Design Specifications, 6th Edition, with subsequent interims.

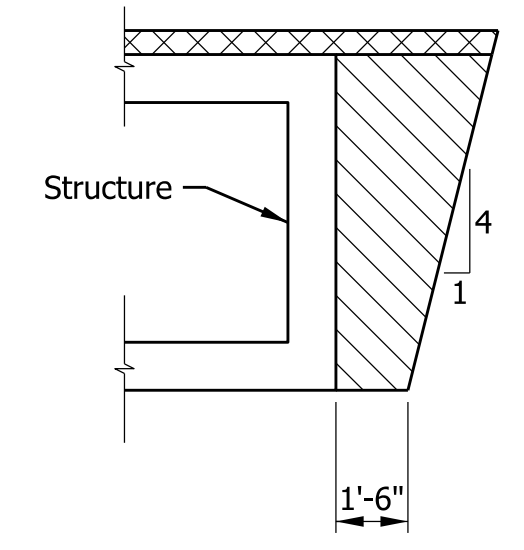
Design Strength:
 Class "C" Concrete F'C = 4,000 psi
 Class "A" Concrete F'C = 3,500 psi
 Class "C" Concrete F'C = 3,000 psi
 Reinforcing Steel FY = 60,000 psi

Dead Loads: Actual weight plus 35 lbs/sft for future wearable surface.

Seismic Load: Designed for Seismic Performance Zone 1.

GENERAL NOTES

- Contractor shall verify the existing flowline elevation to set the appropriate sump depth.
- Chamfer exposed edges 1", unless noted.



TYPICAL EXCAVATION & BACKFILL LIMITS AT STRUCTURE

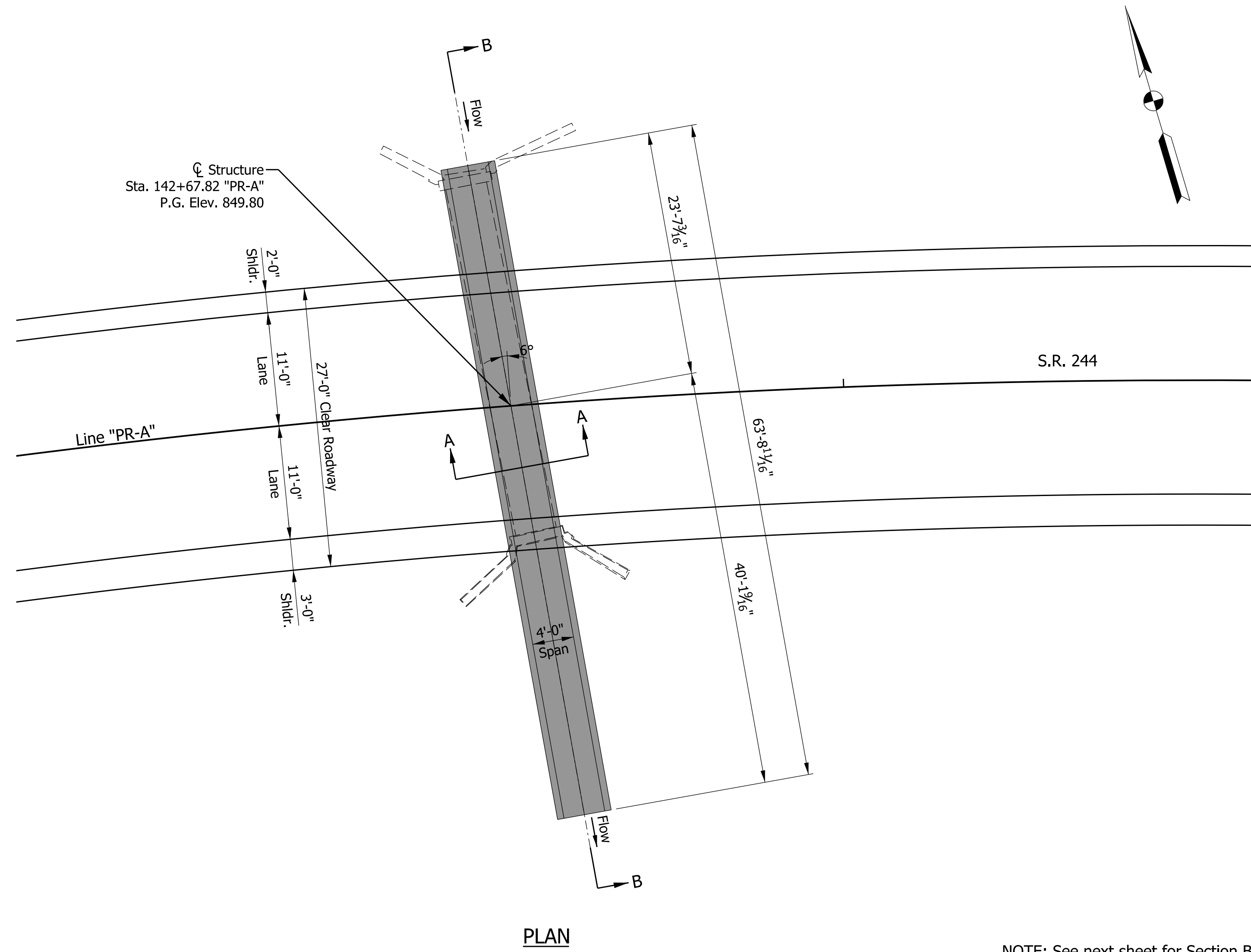
- Structure Backfill, Type 2
- Structure Backfill, Type 5

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	
DESIGNED: SJS	DRAWN: JSS
CHECKED: SWK	CHECKED: SWK

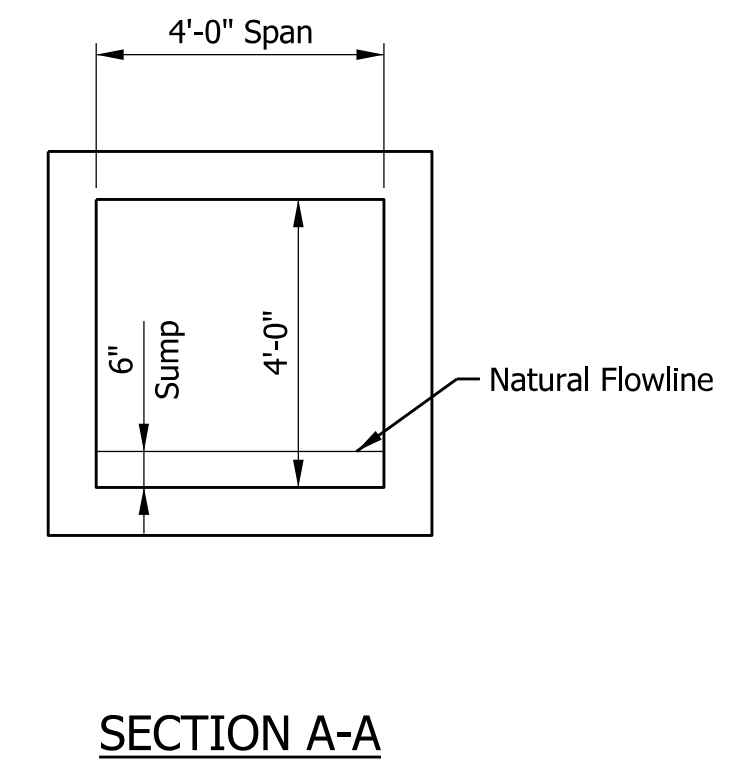
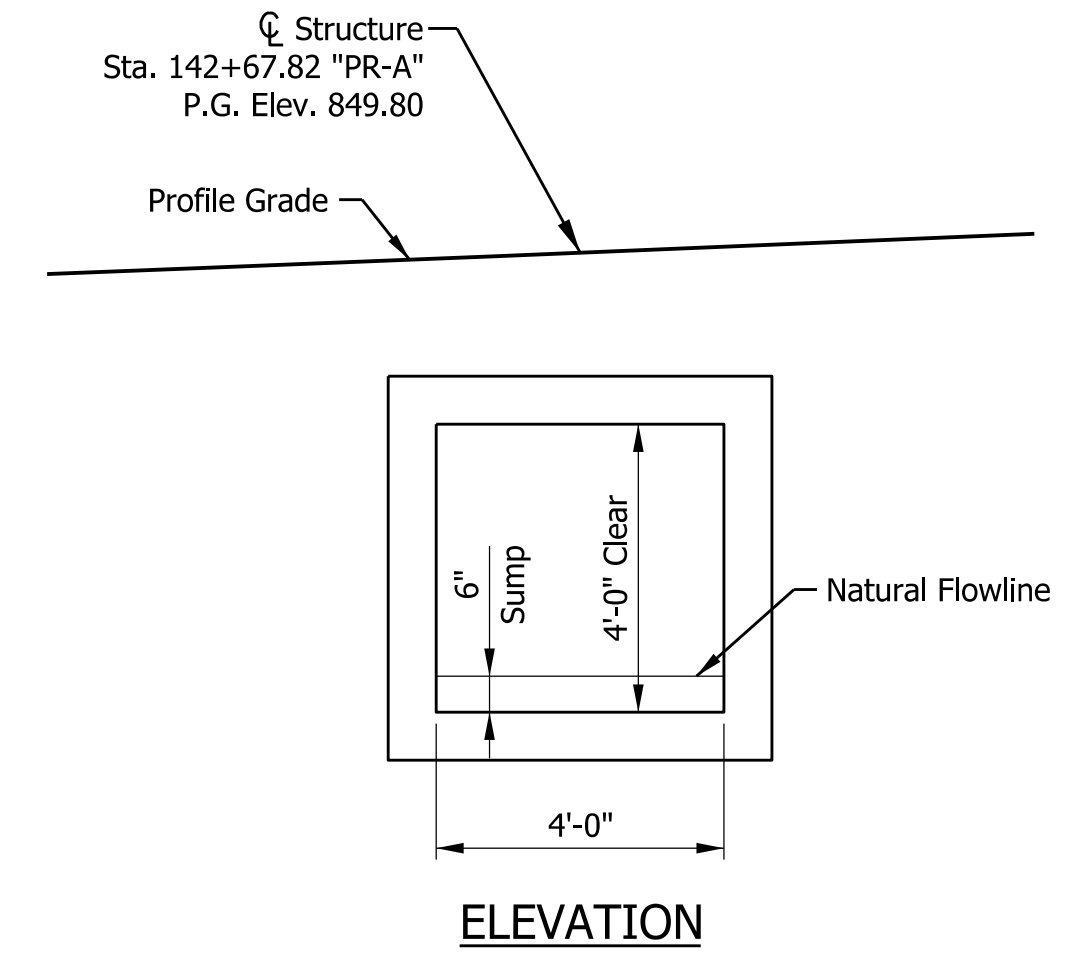
INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN STR. NO. 103	

HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 1600801
SURVEY BOOK	SHEETS 41 of 229
CONTRACT R-42264	PROJECT 1600801

PATH AND FILENAME: V:\Projects\ANY\K5\060242.000\09_Design-DWG\Drawings\Hwy\MSTN\Sheet Drawings\Str Culvert GenPlan_04.dgn
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 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:56:39 PM



NOTE: See next sheet for Section B-B.



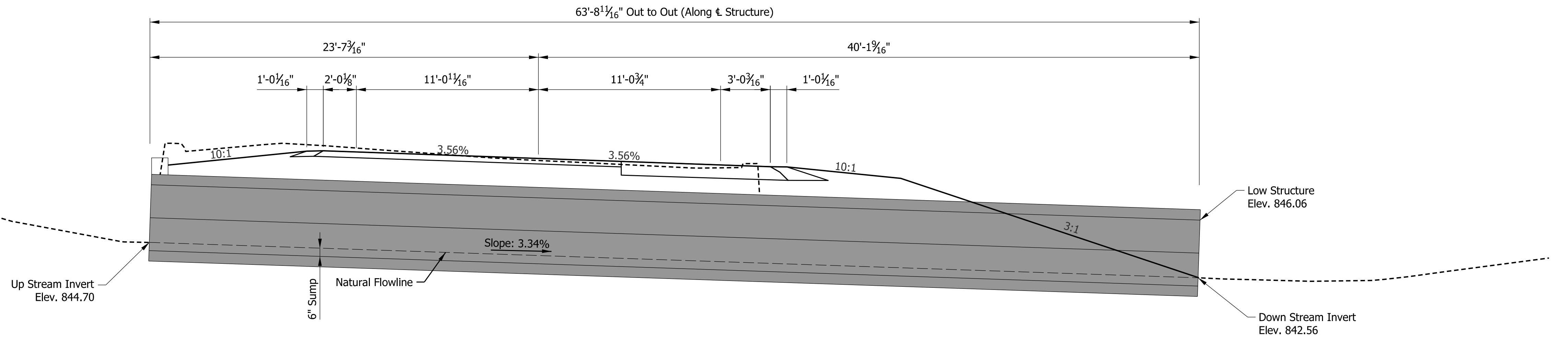
PRECAST REINFORCED CONCRETE BOX
 S.R. 244 OVER UNNAMED TRIBUTARY
 4' SPAN, 4' RISE, 6° SKEW
 SHELBY COUNTY

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: SJS	DRAWN: JSS	
CHECKED: SWK	CHECKED: SWK	

INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN STR. NO. 108	

HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 1600801
SURVEY BOOK	SHEETS 42 of 229
CONTRACT R-42264	PROJECT 1600801

PATH AND FILENAME: V:\Projects\ANY\K5\060242.000\09_Design+DWG\Drawings\Hwy\MSTN\Sheet Drawings\Sht Culvert XS_04.dgn
 MODEL NAME: Sheet
 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:56:40 PM



SECTION B-B

DESIGN DATA

Live Loads: Structure designed for HL-93 loading with impact and distribution of loads in accordance with the 2012 AASHTO LFRD Bridge Design Specifications, 6th Edition, with subsequent interims.

Design Strength:

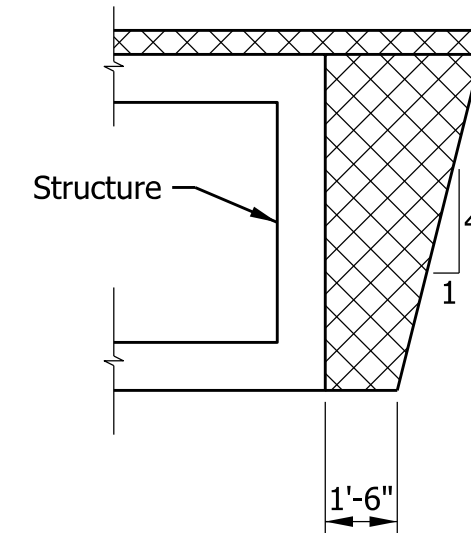
- Class "C" Concrete F'C = 4,000 psi
- Class "A" Concrete F'C = 3,500 psi
- Class "C" Concrete F'C = 3,000 psi
- Reinforcing Steel FY = 60,000 psi

Dead Loads: Actual weight plus 35 lbs/sft for future wearable surface.

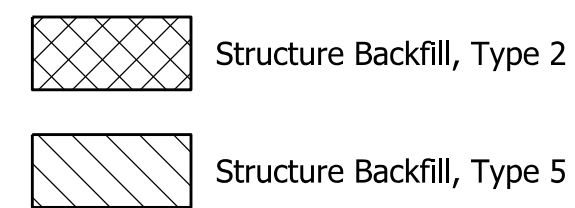
Seismic Load: Designed for Seismic Performance Zone 1.

GENERAL NOTES

1. Contractor shall verify the existing flowline elevation to set the appropriate sump depth.
2. Chamfer exposed edges 1", unless noted.



TYPICAL EXCAVATION & BACKFILL LIMITS AT STRUCTURE

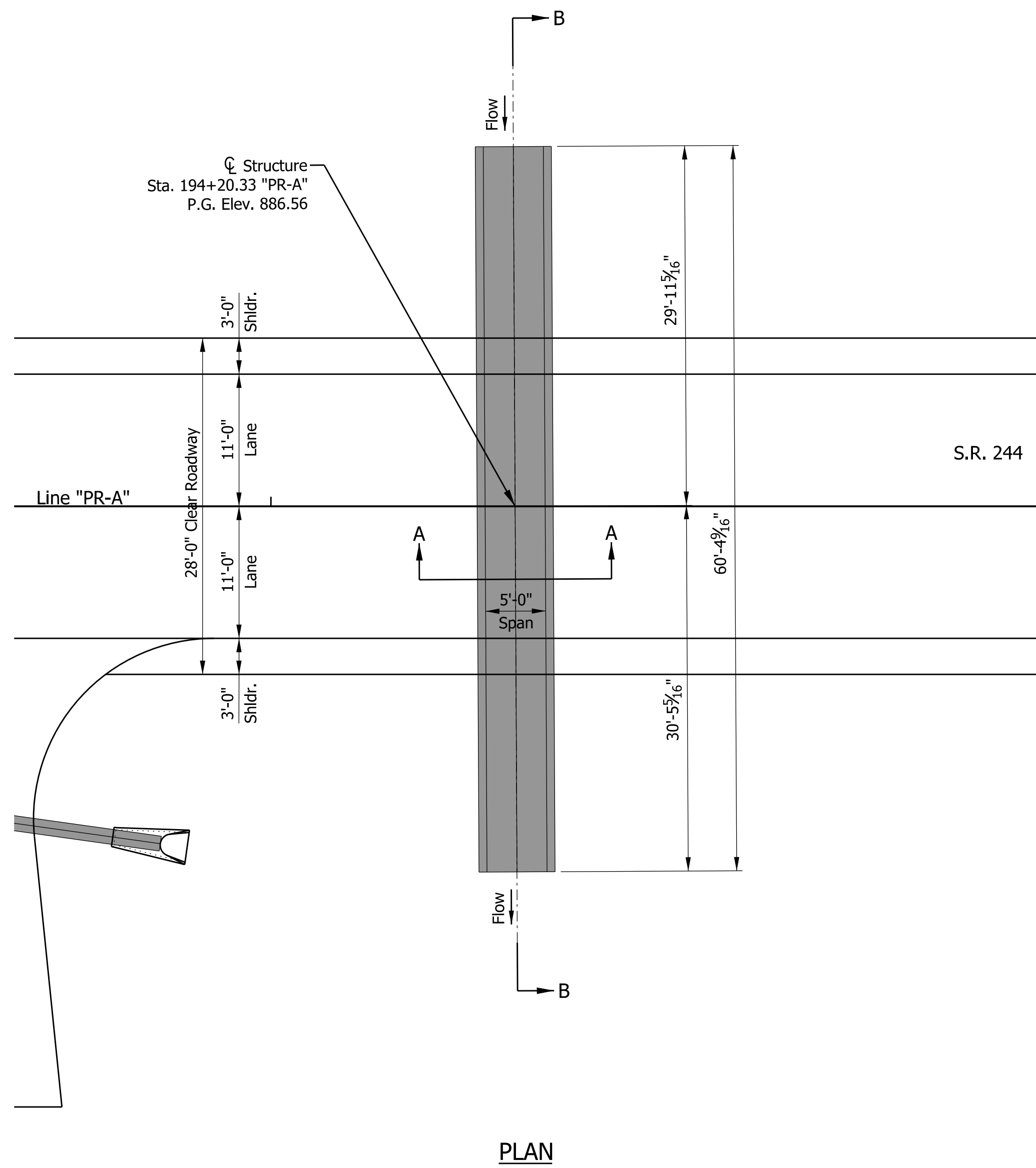


RECOMMENDED FOR APPROVAL _____	
DESIGNED: SJS	DRAWN: JSS
CHECKED: SWK	CHECKED: SWK

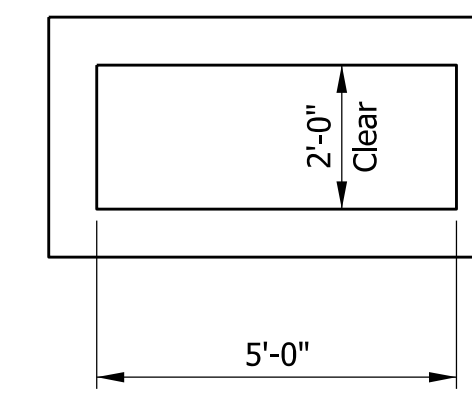
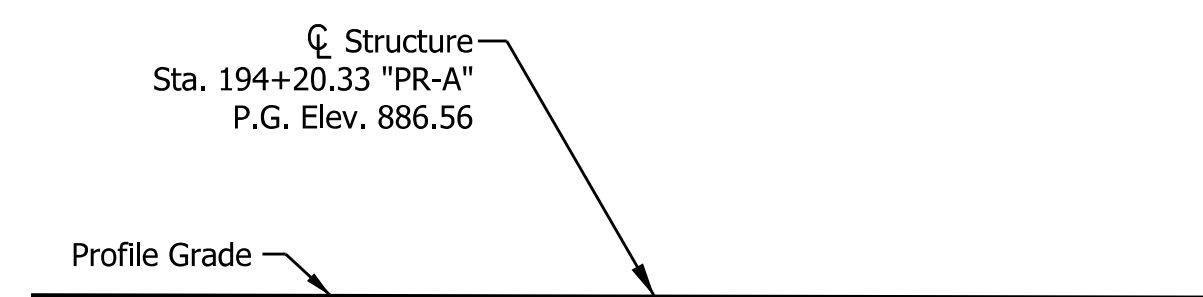
INDIANA DEPARTMENT OF TRANSPORTATION	
GENERAL PLAN STR. NO. 108	

HORIZONTAL SCALE 1/4" = 1'-0"	BRIDGE FILE
VERTICAL SCALE	DESIGNATION 1600801
SURVEY BOOK	SHEETS 43 of 229
CONTRACT R-42264	PROJECT 1600801

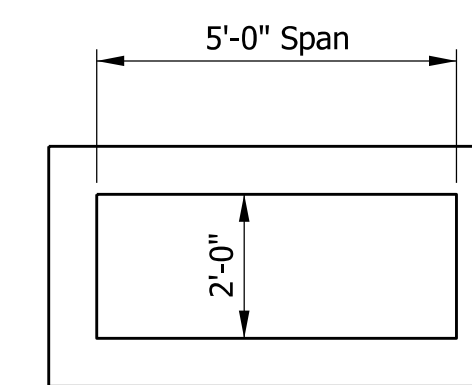
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 TIME PLOTTED: 3:56:41 PM



NOTE: See next sheet for Section B-B.



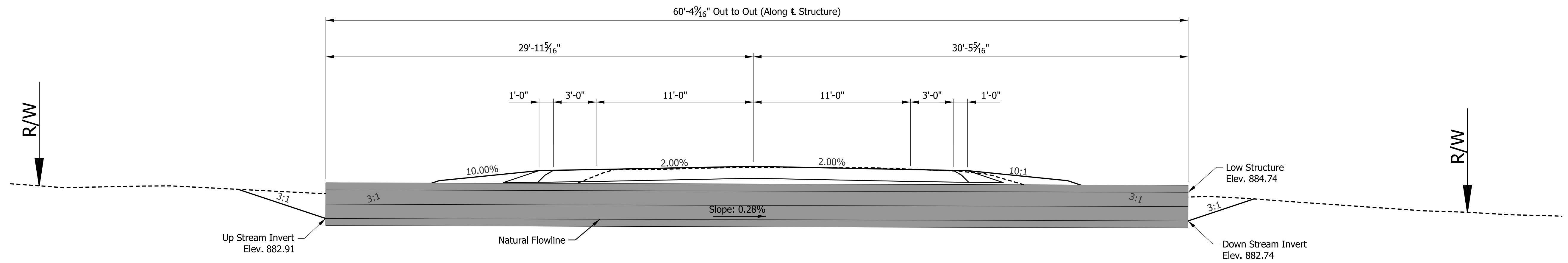
ELEVATION



SECTION A-A

PRECAST REINFORCED CONCRETE BOX
 S.R. 244 OVER UNNAMED TRIBUTARY
 5' SPAN, 2' RISE, 0° SKEW
 RUSH COUNTY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE	
			1/8" = 1'-0"		
DESIGNED: SJS CHECKED: SWK	DRAWN: JSS CHECKED: SWK	GENERAL PLAN STR. NO. 112		VERTICAL SCALE	DESIGNATION
					1600801
				SURVEY BOOK	SHEETS
					44 of 229
				CONTRACT	PROJECT
				R-42264	1600801



SECTION B-B

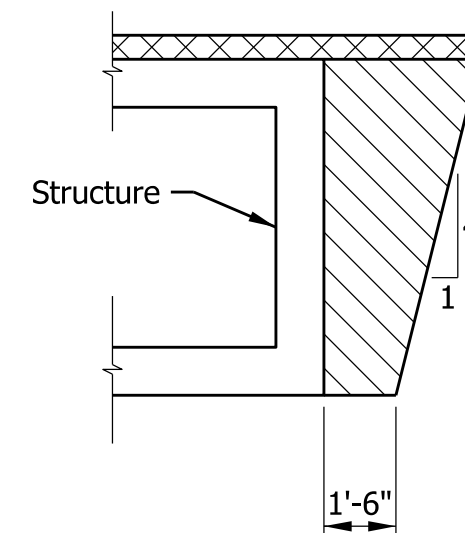
DESIGN DATA

Live Loads: Structure designed for HL-93 loading with impact and distribution of loads in accordance with the 2012 AASHTO LFRD Bridge Design Specifications, 6th Edition, with subsequent interims.

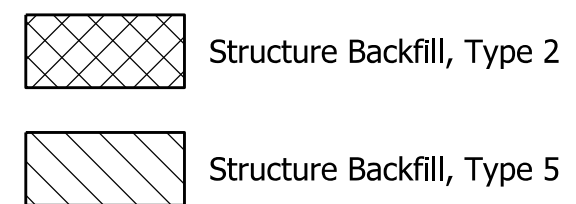
Design Strength:
 Class "C" Concrete F'C = 4,000 psi
 Class "A" Concrete F'C = 3,500 psi
 Class "C" Concrete F'C = 3,000 psi
 Reinforcing Steel FY = 60,000 psi

Dead Loads: Actual weight plus 35 lbs/sft for future wearable surface.

Seismic Load: Designed for Seismic Performance Zone 1.



TYPICAL EXCAVATION & BACKFILL LIMITS AT STRUCTURE



GENERAL NOTES

- Contractor shall verify the existing flowline elevation to set the appropriate sump depth.
- Chamfer exposed edges 1", unless noted.

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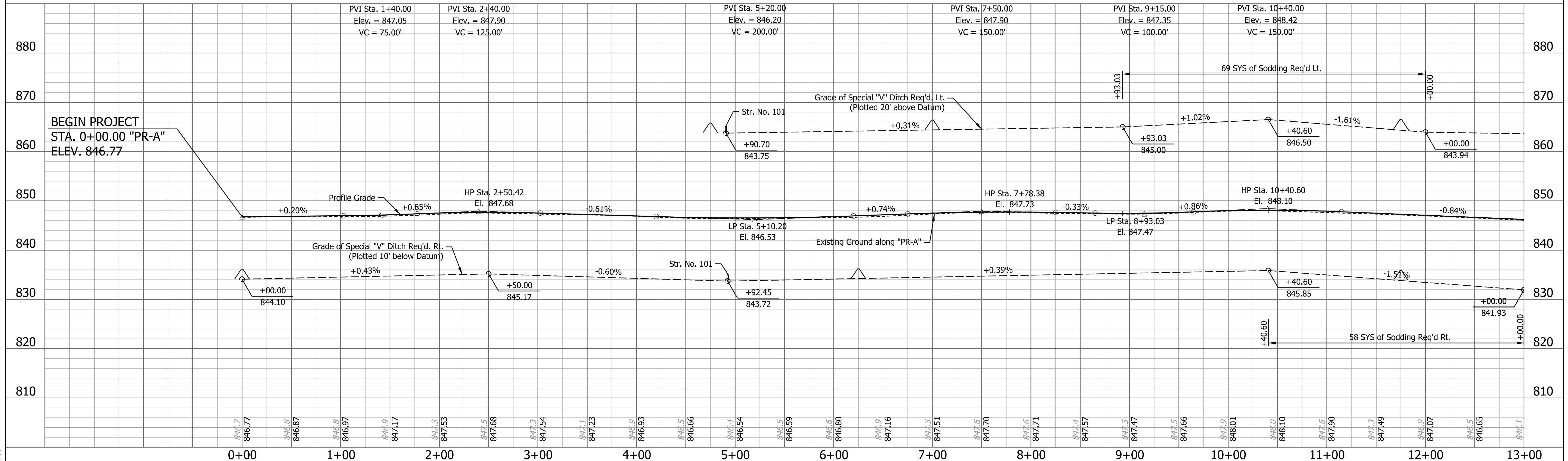
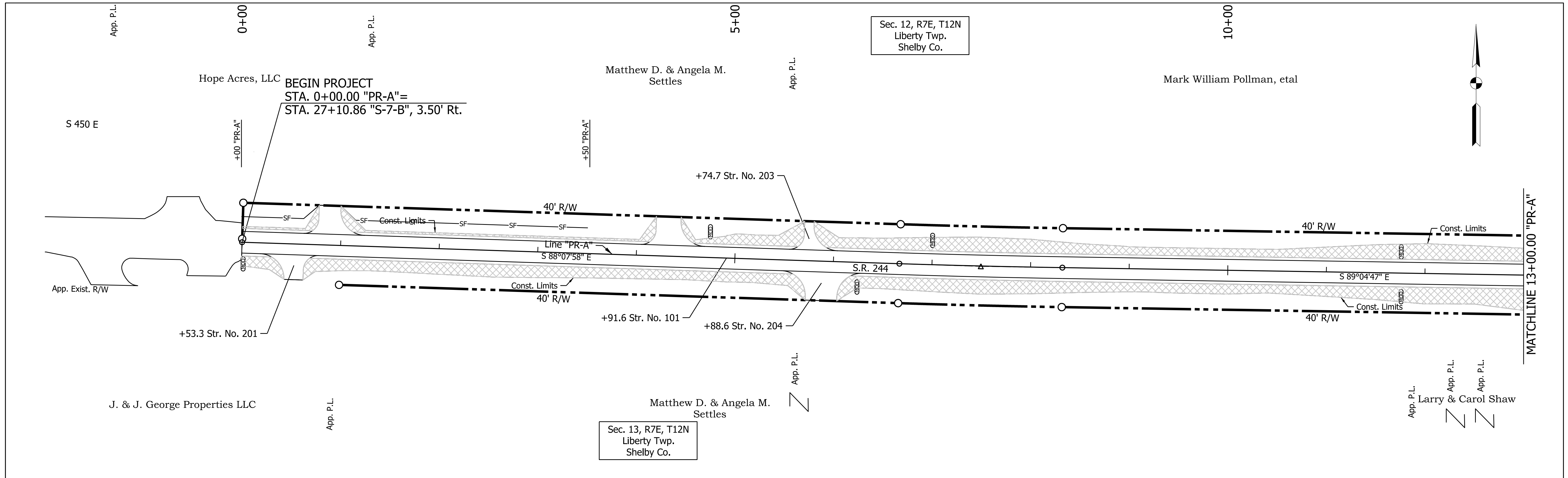
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DESIGNED: SJS	DRAWN: JSS		
CHECKED: SWK	CHECKED: SWK		

INDIANA DEPARTMENT OF TRANSPORTATION

GENERAL PLAN STR. NO. 112

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	
VERTICAL SCALE	DESIGNATION
	1600801
SURVEY BOOK	SHEETS
	45 of 229
CONTRACT	PROJECT
R-42264	1600801

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LEGEND	
	Perimeter Protection
	Modified Check Dam Revetment Riprap
	Check Dam in Profile
	Manufactured Surface Production Product

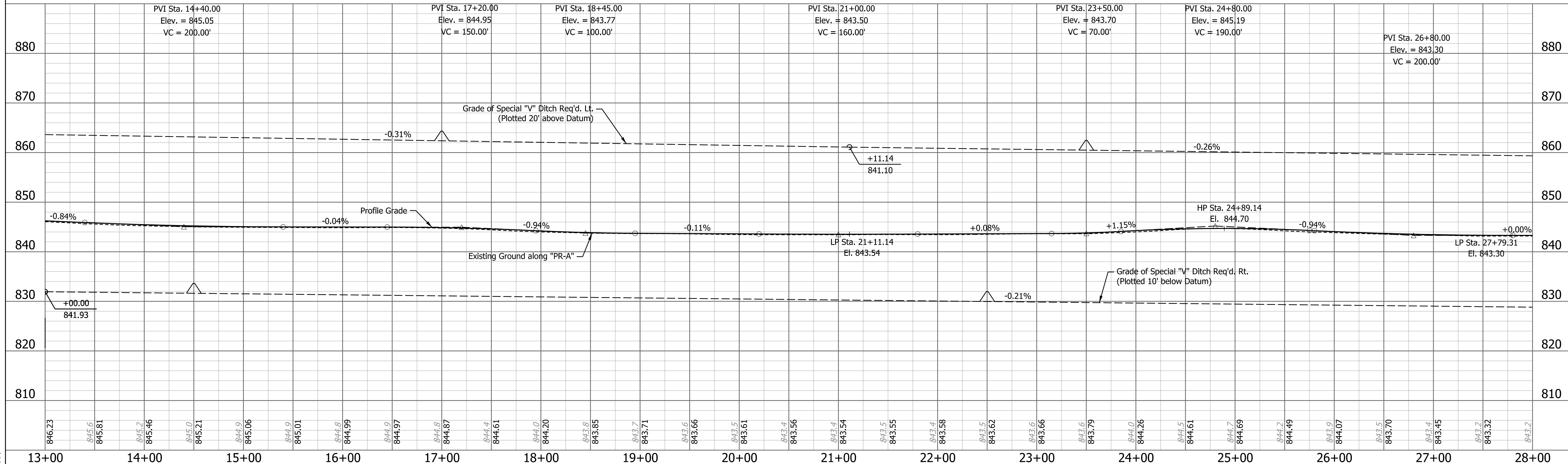
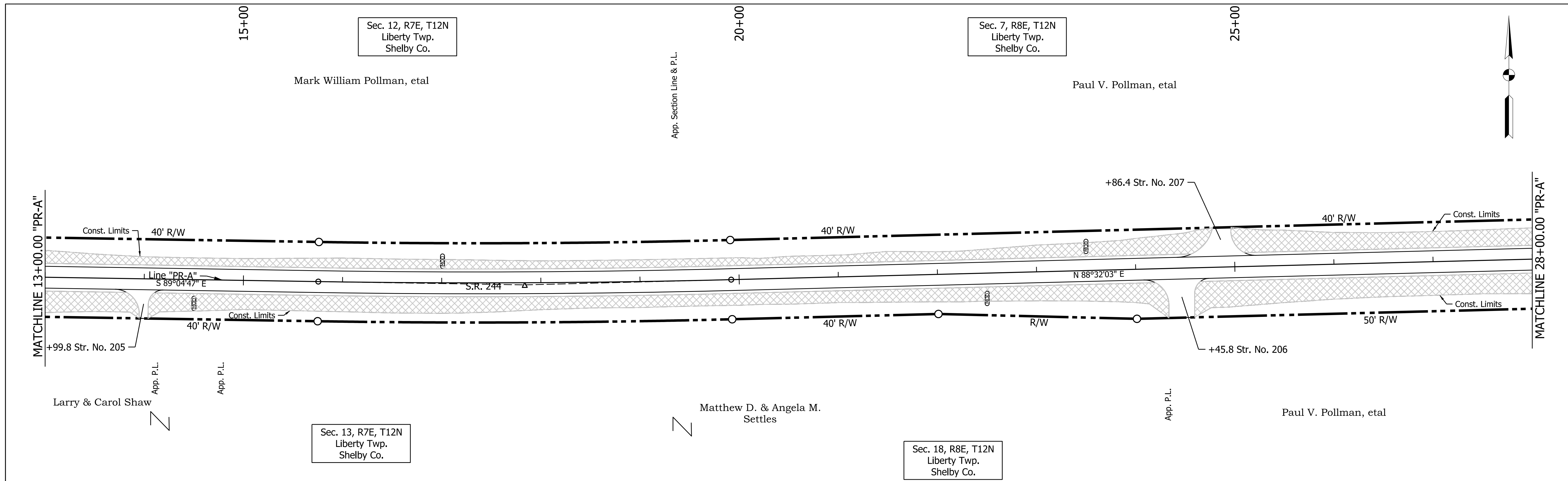
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DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 46 of 229
CONTRACT R-42264	PROJECT 1600801

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	Check Dam in Profile
	Manufactured Surface Production Product

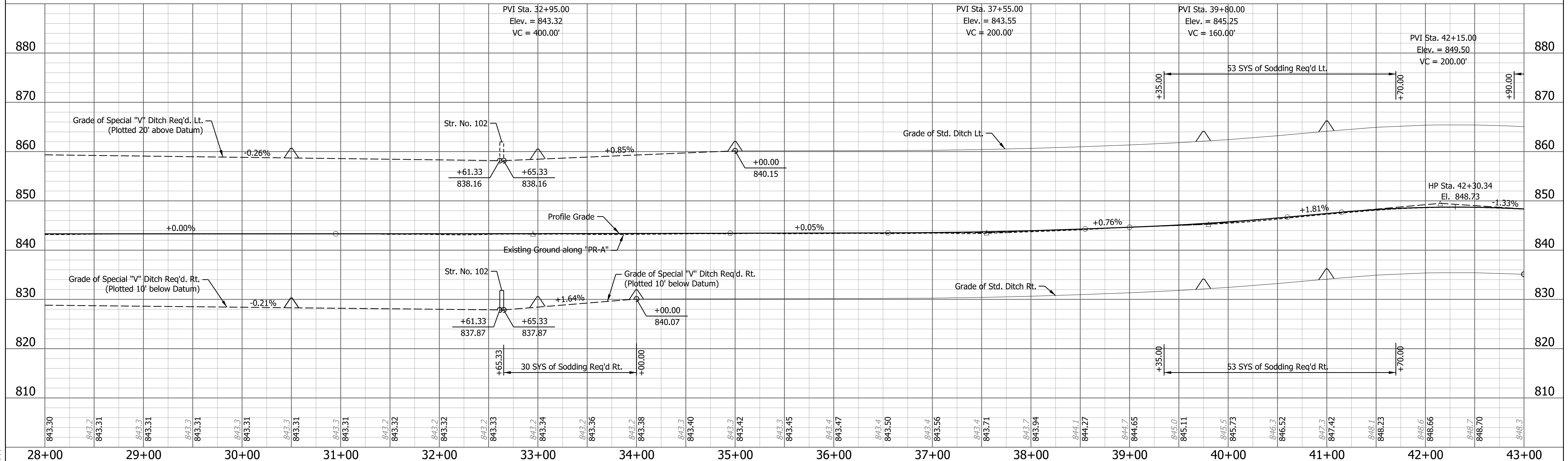
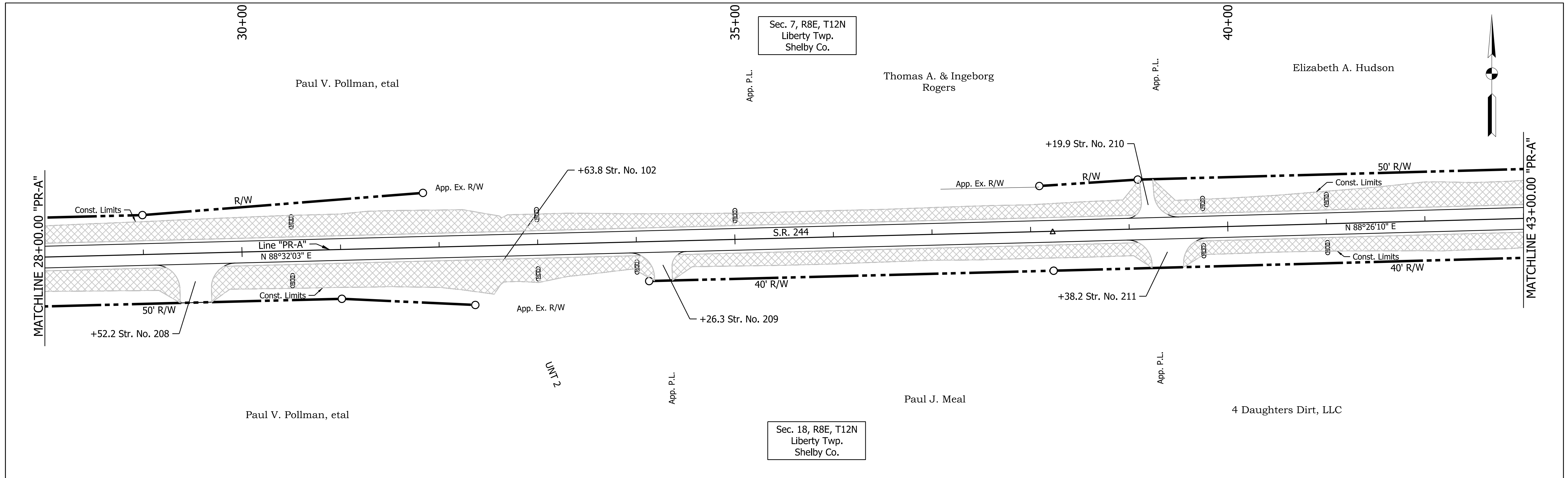
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DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1600801
SURVEY BOOK	SHEETS
	47 of 229
CONTRACT	PROJECT
R-42264	1600801

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LEGEND

- SF— Perimeter Protection
- (MOD) Modified Check Dam Revetment Riprap
- △ Check Dam in Profile
- ▨ Manufactured Surface Production Product

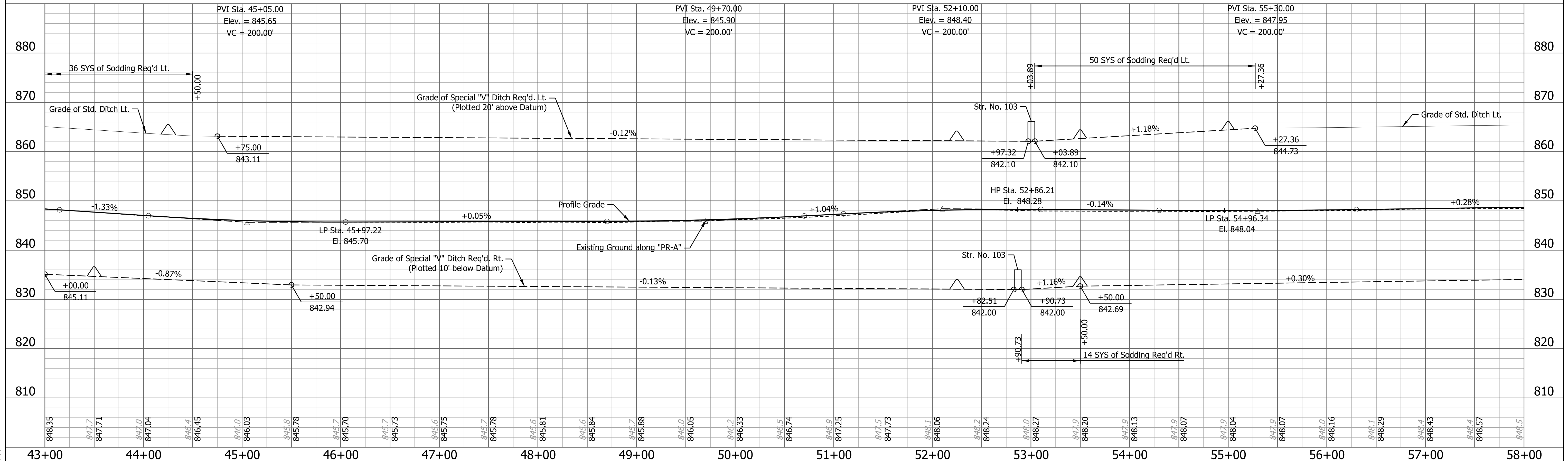
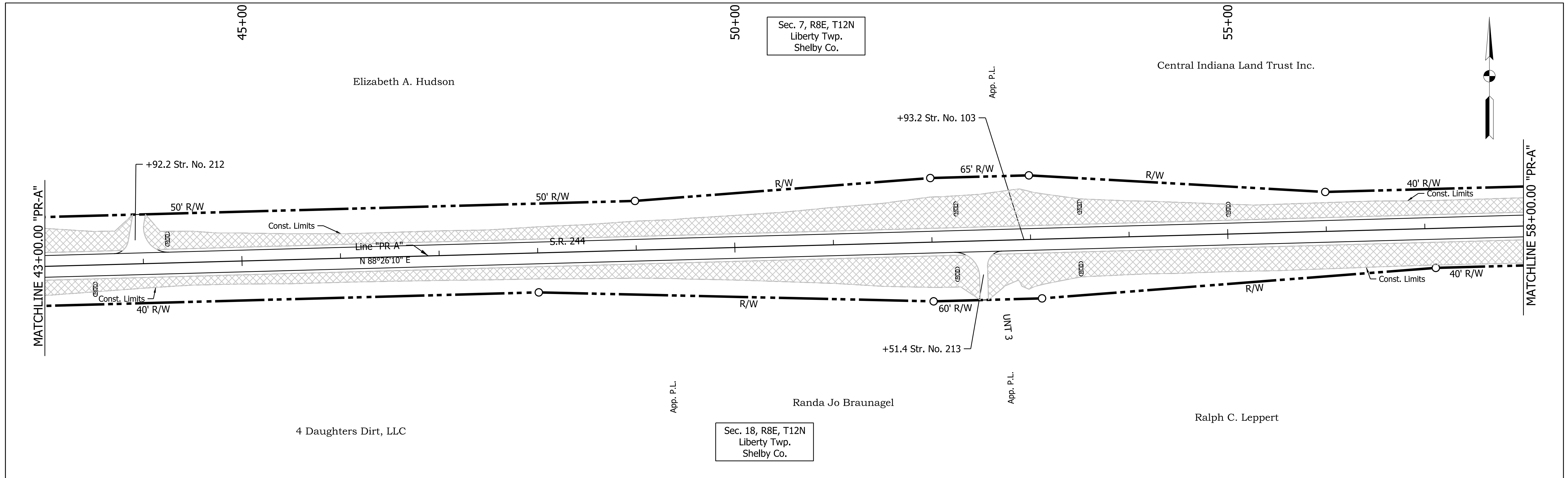
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DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 48 of 229
CONTRACT R-42264	PROJECT 1600801

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LEGEND

	Perimeter Protection
	Modified Check Dam Revetment Riprap
	Check Dam in Profile
	Manufactured Surface Production Product

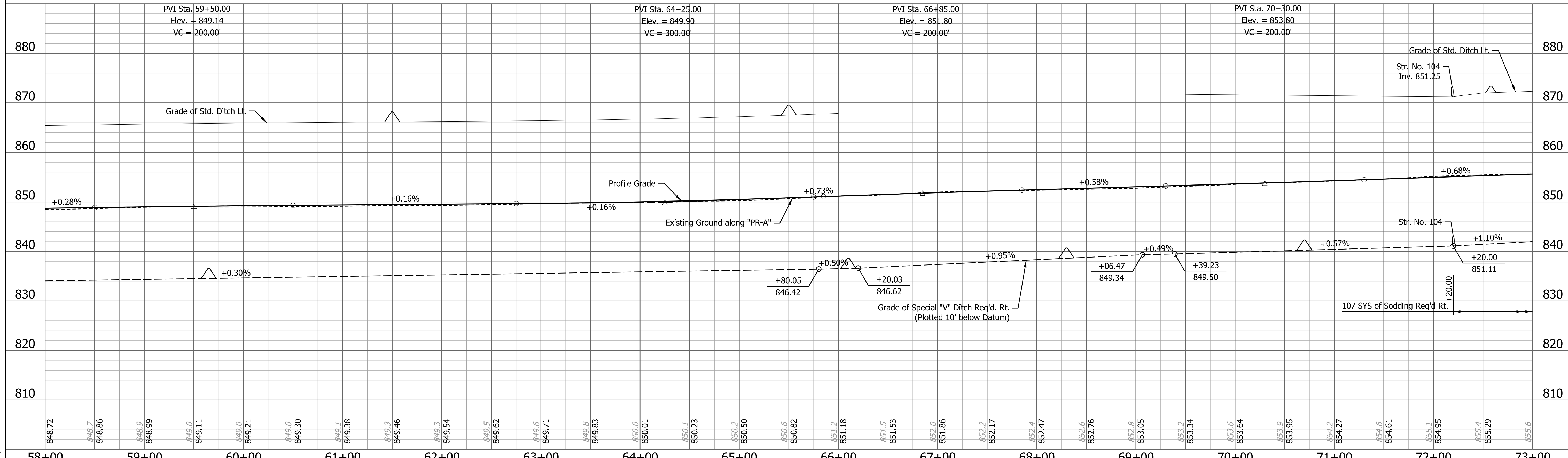
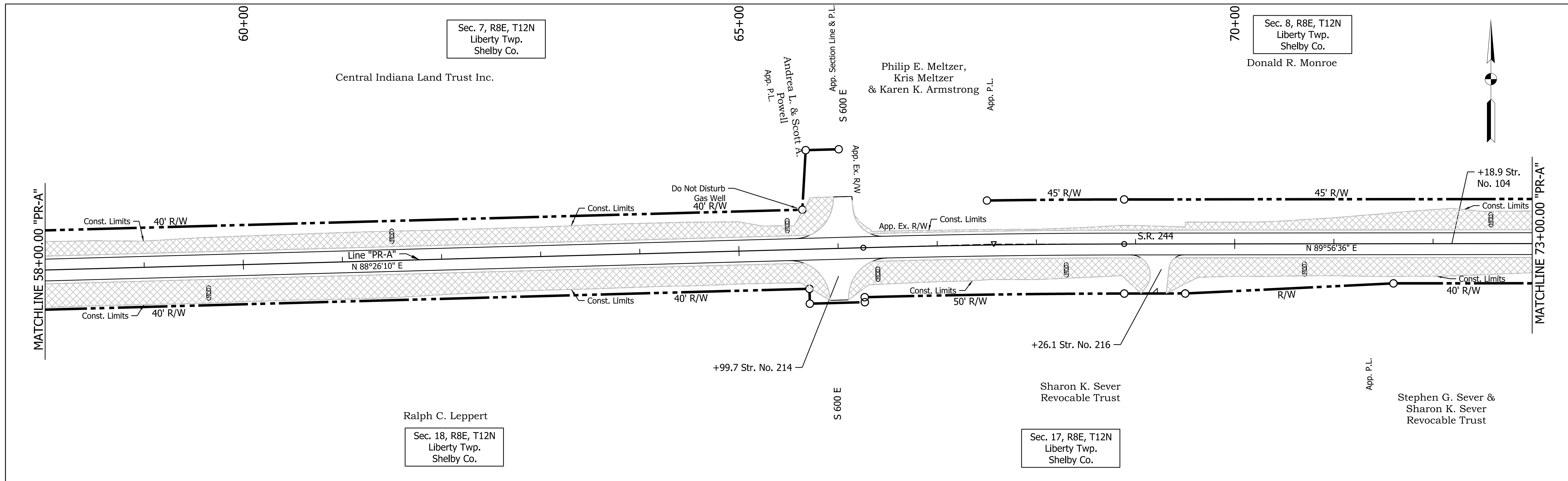
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DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 49 of 229
CONTRACT R-42264	PROJECT 1600801

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	Check Dam in Profile
	Manufactured Surface Production Product

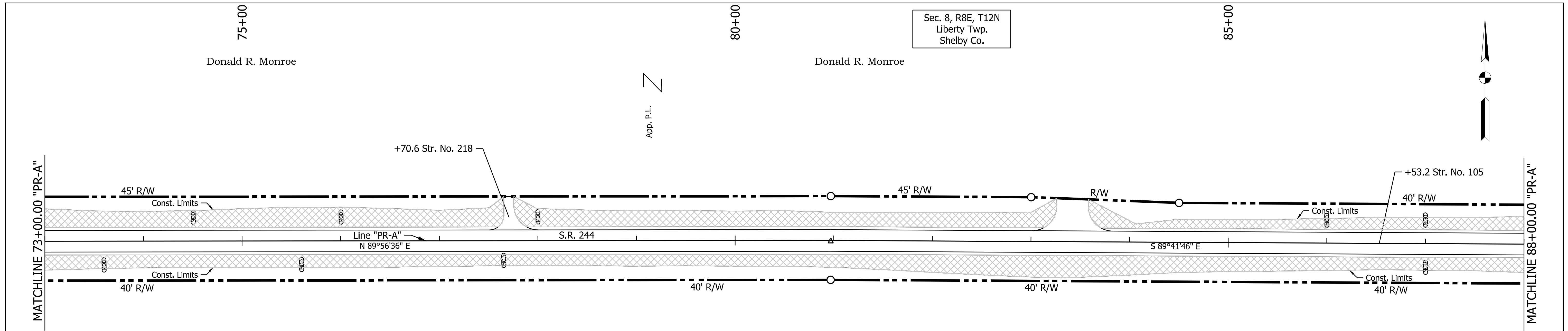
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INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

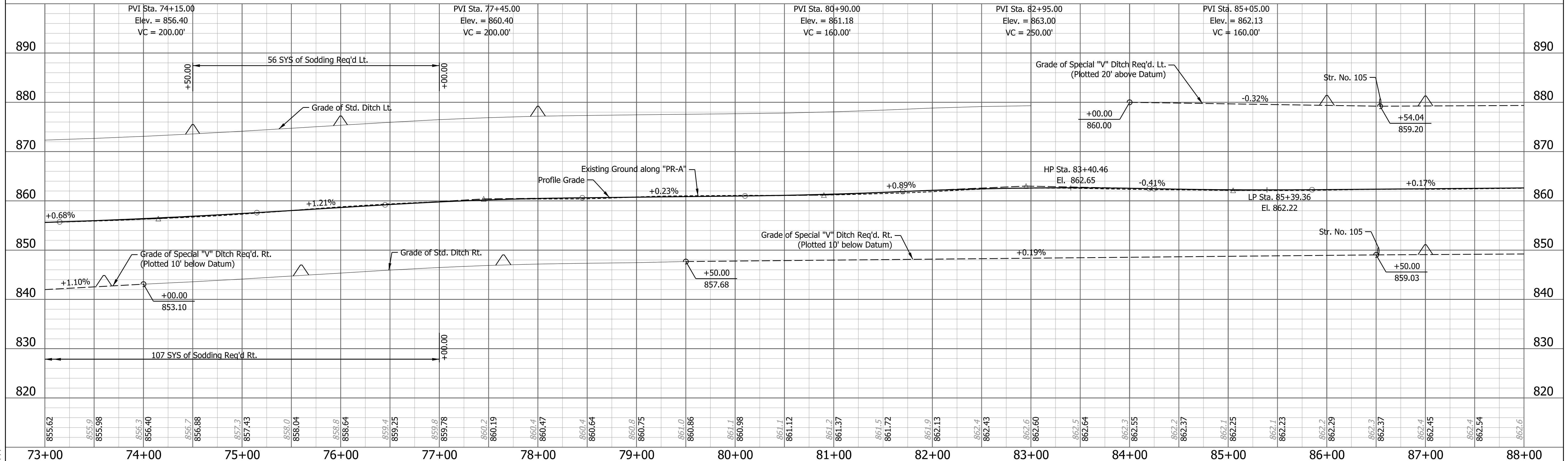
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VERTICAL SCALE	DESIGNATION
1" = 10'	1600801
SURVEY BOOK	SHEETS
	50 of 229
CONTRACT	PROJECT
R-42264	1600801

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 TIME PLOTTED: 3:57:09 PM



Stephen G. Sever &
 Sharon K. Sever
 Revocable Trust

Sec. 17, R8E, T12N
 Liberty Twp.
 Shelby Co.



LEGEND

- SF— Perimeter Protection
- (MOD) Modified Check Dam Revetment Riprap
- △ Check Dam in Profile
- ▨ Manufactured Surface Production Product

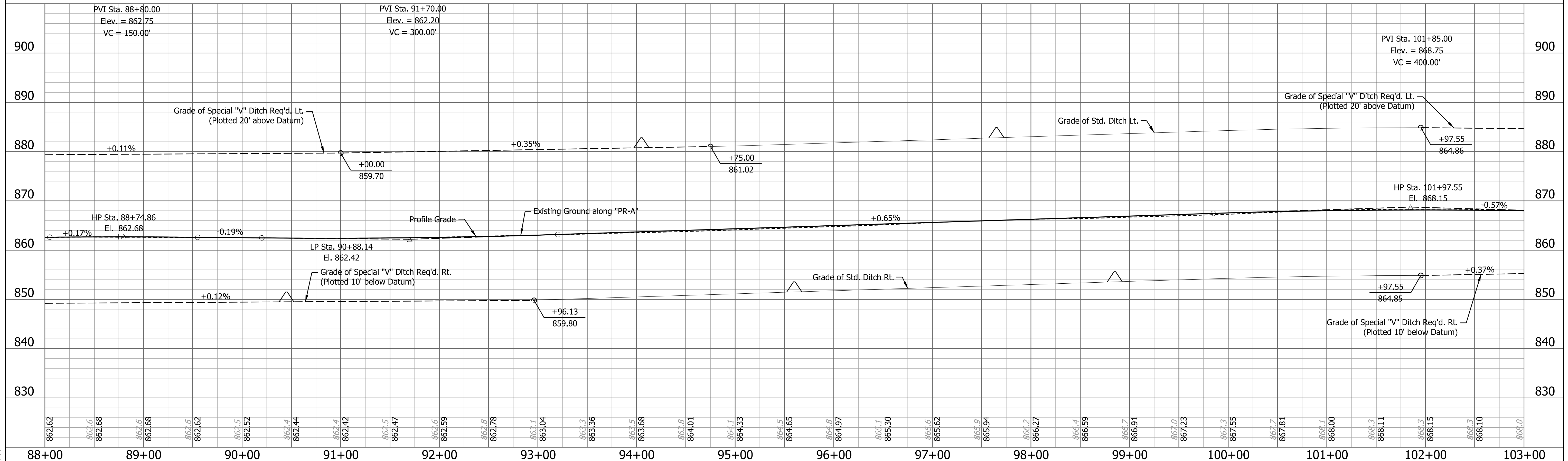
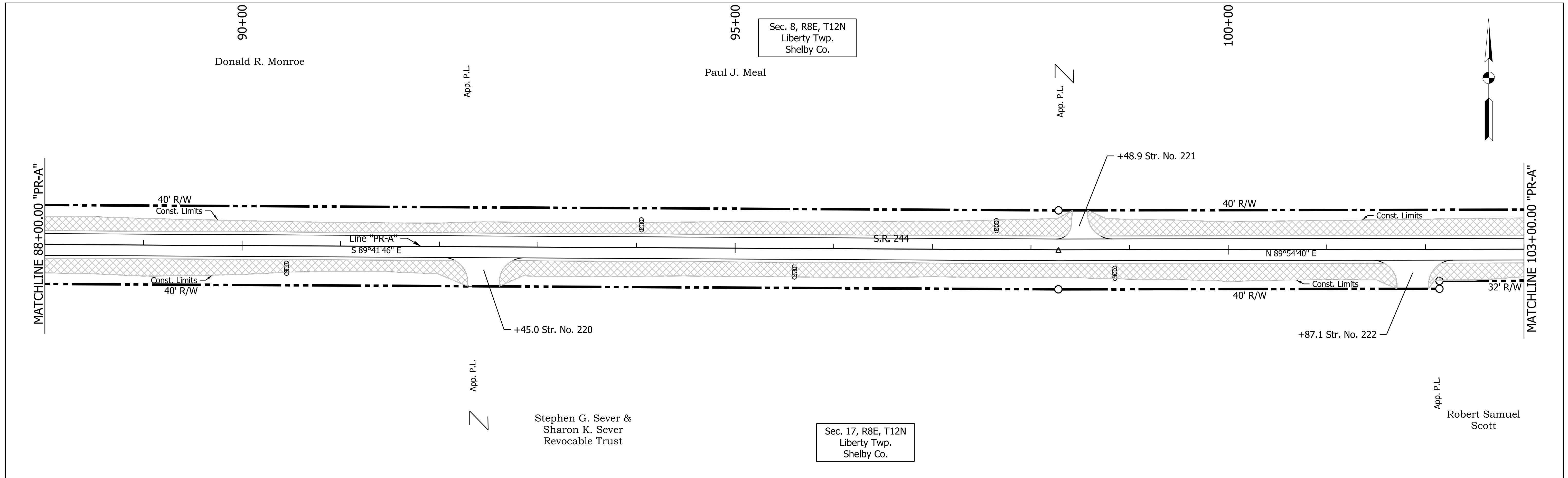
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CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
 S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 51 of 229
CONTRACT R-42264	PROJECT 1600801

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 TIME PLOTTED: 3:57:21 PM



Station	Elevation
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88+10	862.6
88+20	862.68
88+30	862.6
88+40	862.68
88+50	862.6
88+60	862.62
88+70	862.5
88+80	862.52
88+90	862.4
89+00	862.44
89+10	862.4
89+20	862.42
89+30	862.5
89+40	862.47
89+50	862.6
89+60	862.59
89+70	862.8
89+80	862.78
89+90	863.1
90+00	863.04
90+10	863.3
90+20	863.36
90+30	863.5
90+40	863.68
90+50	863.8
90+60	864.01
90+70	864.1
90+80	864.33
90+90	864.5
91+00	864.65
91+10	864.8
91+20	864.97
91+30	865.1
91+40	865.30
91+50	865.6
91+60	865.62
91+70	865.9
91+80	865.94
91+90	866.2
92+00	866.27
92+10	866.4
92+20	866.59
92+30	866.7
92+40	866.91
92+50	867.0
92+60	867.23
92+70	867.3
92+80	867.55
92+90	867.7
93+00	867.81
93+10	868.1
93+20	868.00
93+30	868.3
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93+50	868.3
93+60	868.15
93+70	868.3
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LEGEND	
	Perimeter Protection
	Modified Check Dam Revetment Riprap
	Check Dam in Profile
	Manufactured Surface Production Product

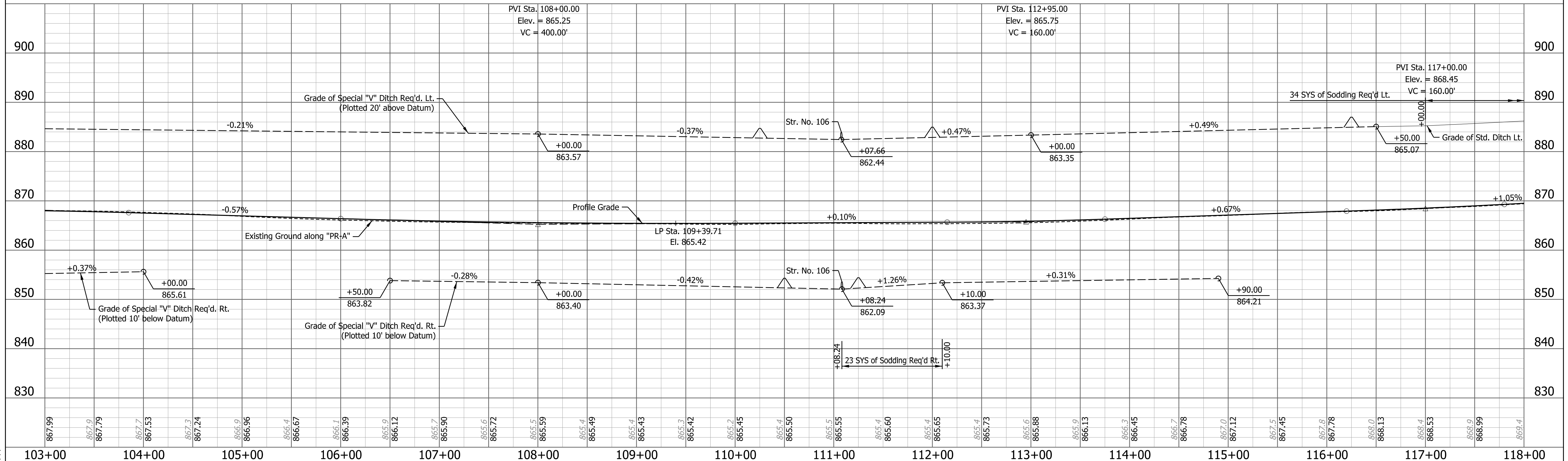
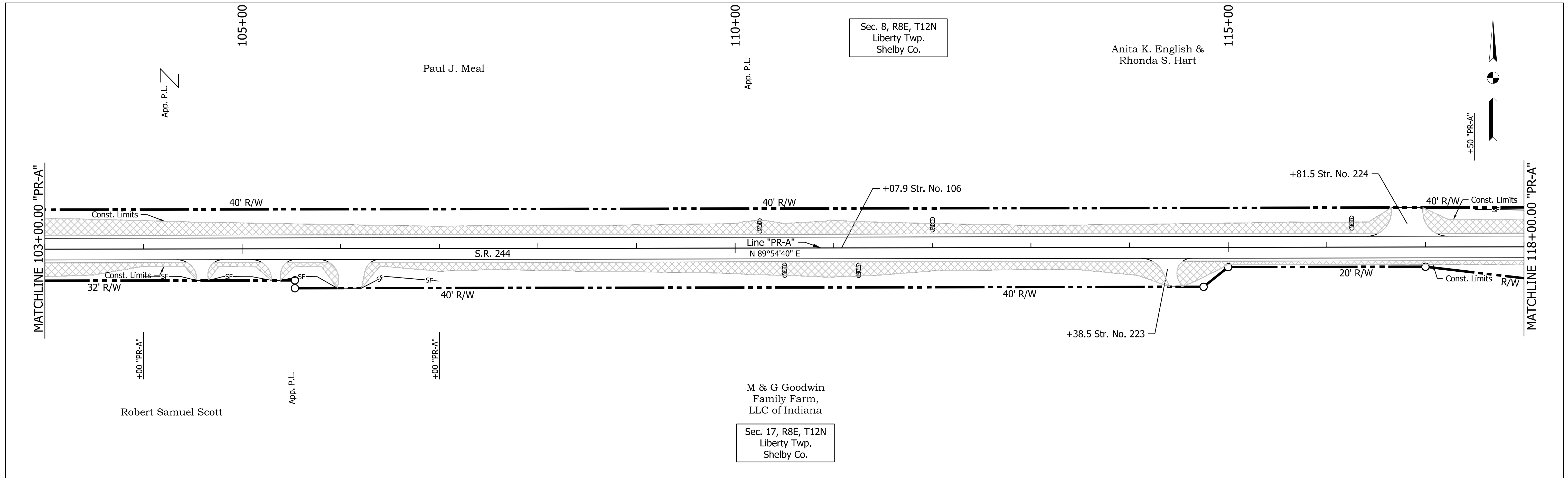
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DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 52 of 229
CONTRACT R-42264	PROJECT 1600801

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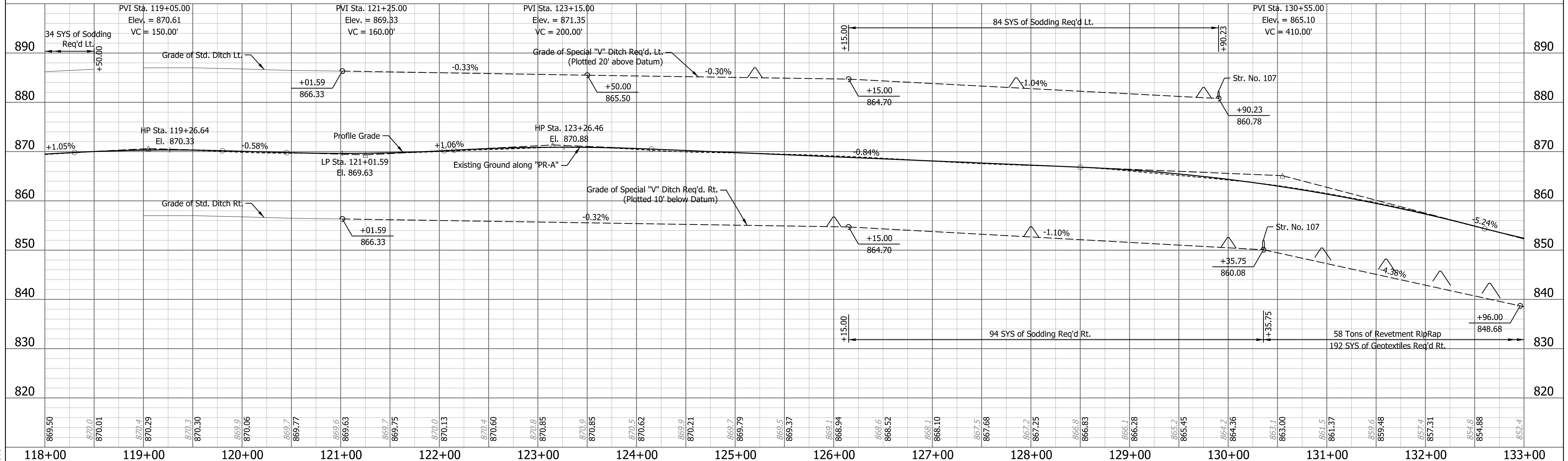
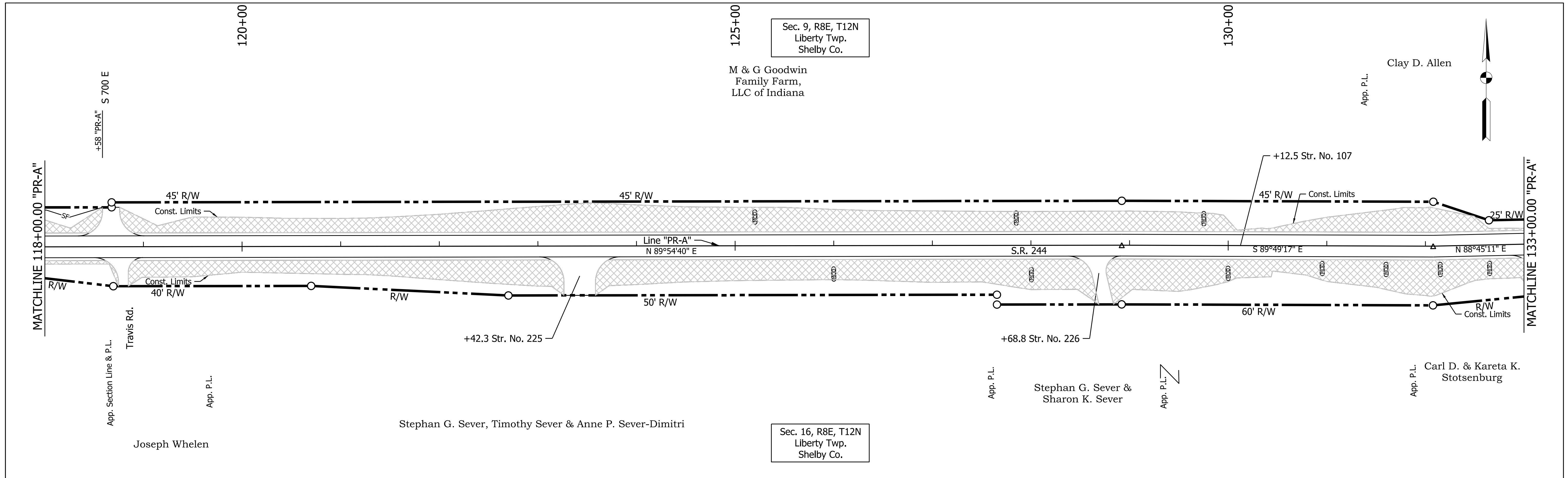
LEGEND	
	Perimeter Protection
	Modified Check Dam Revetment Riprap
	Check Dam in Profile
	Manufactured Surface Production Product

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

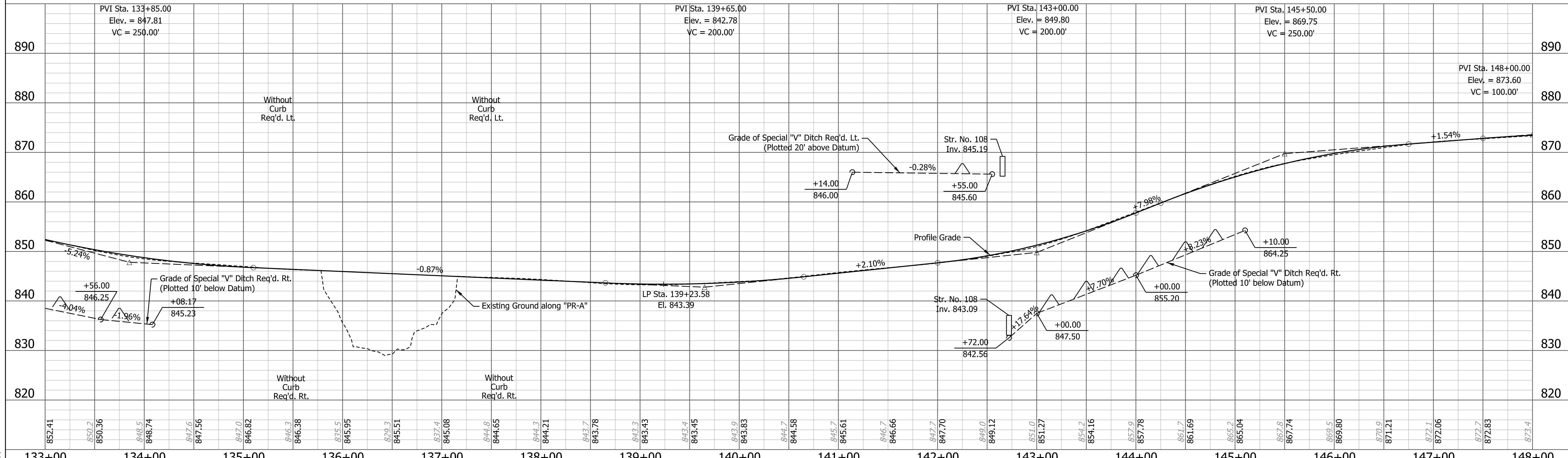
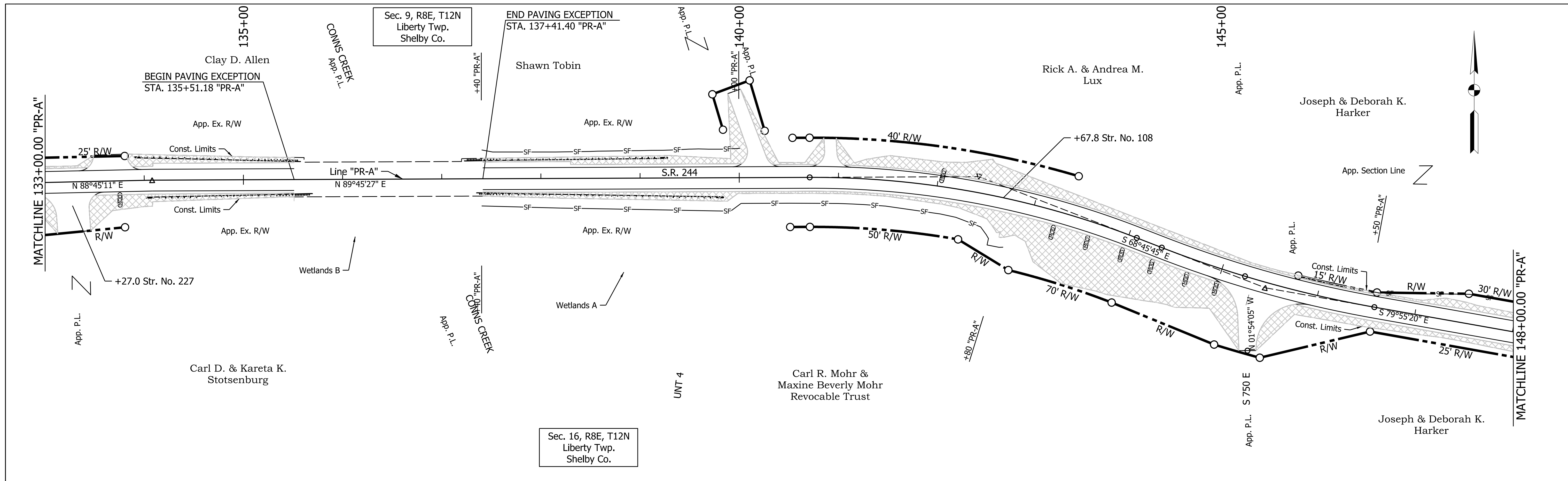
INDIANA DEPARTMENT OF TRANSPORTATION
TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 53 of 229
CONTRACT R-42264	PROJECT 1600801

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 TIME PLOTTED: 3:57:29 PM



LEGEND —SF— Perimeter Protection (MOD) Modified Check Dam Revetment Riprap Check Dam in Profile Manufactured Surface Production Product		RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION TEMPORARY EROSION CONTROL DETAILS S.R. 244 - LINE "PR-A"		HORIZONTAL SCALE 1" = 50' BRIDGE FILE	
DESIGNED: CJC DRAWN: JSS CHECKED: SJS CHECKED: SJS		SURVEY BOOK _____ CONTRACT R-42264				VERTICAL SCALE 1" = 10' DESIGNATION 1600801 SHEETS 54 of 229 PROJECT 1600801	



LEGEND

- Perimeter Protection
- Modified Check Dam Revetment Riprap
- Check Dam in Profile
- Manufactured Surface Production Product

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

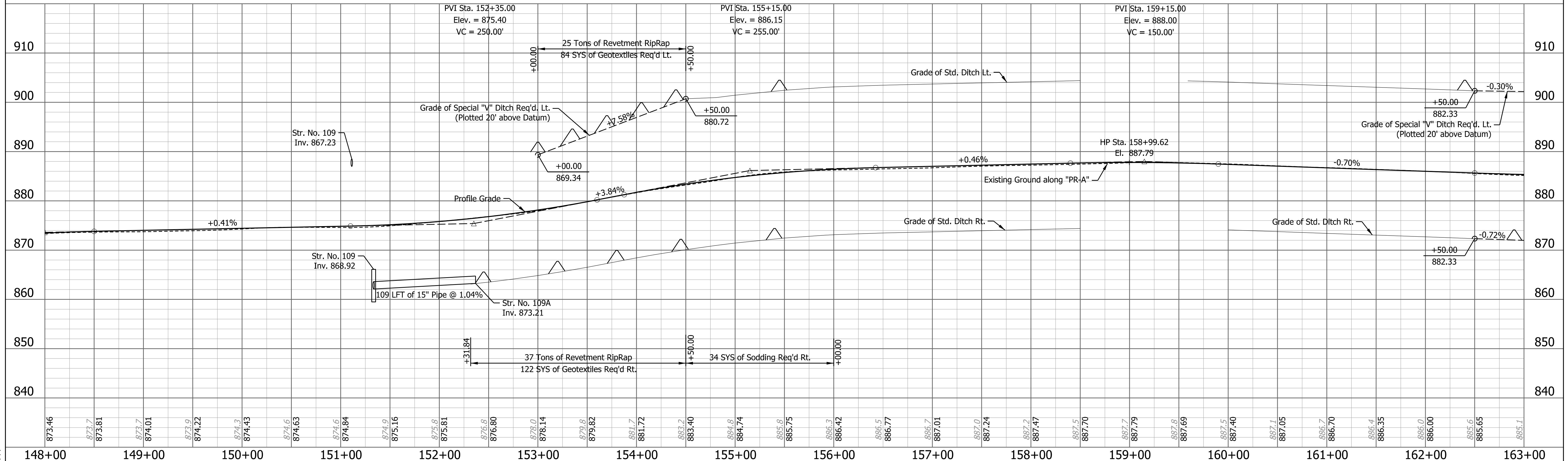
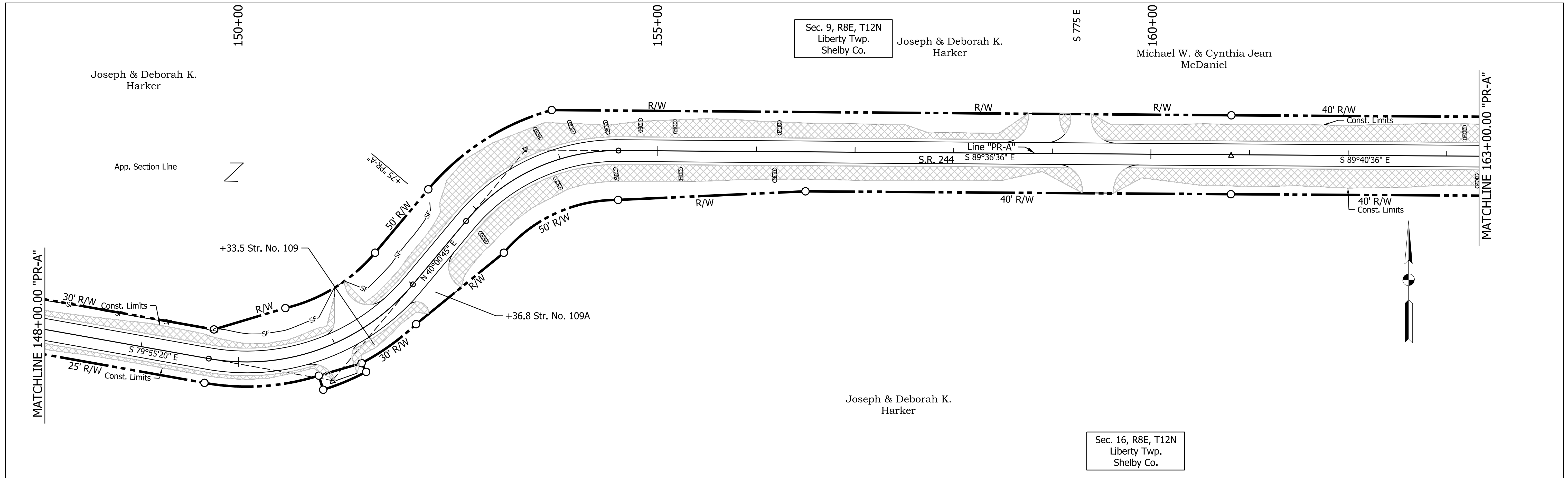
INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 55 of 229
CONTRACT R-42264	PROJECT 1600801

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LEGEND

- SF— Perimeter Protection
- (MOD) Modified Check Dam Revetment Riprap
- △ Check Dam in Profile
- ▨ Manufactured Surface Production Product

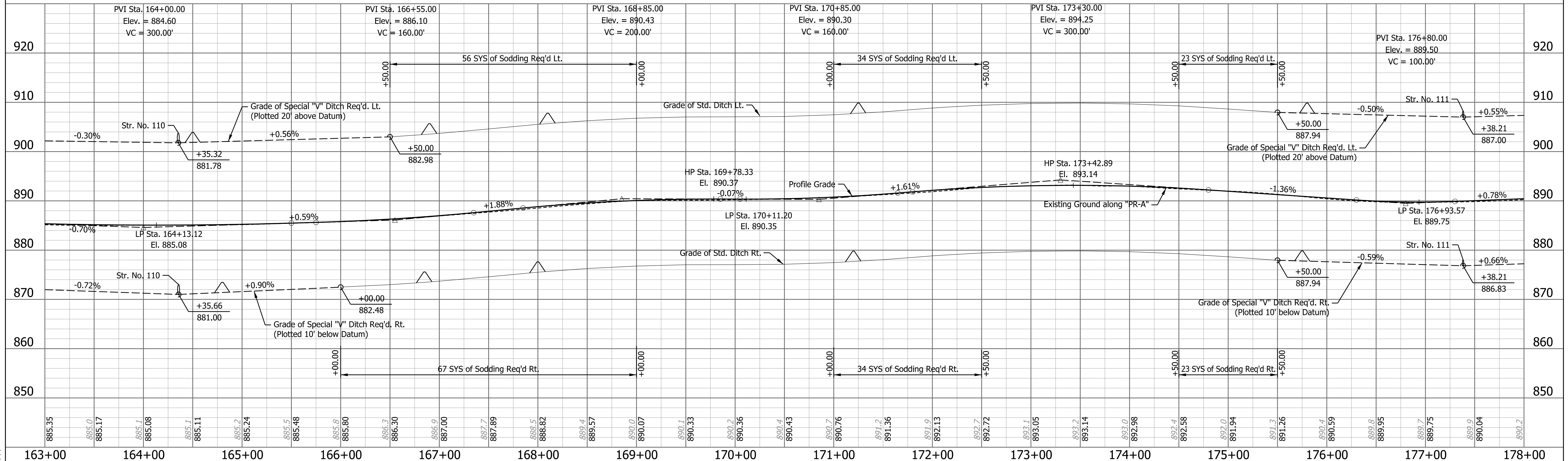
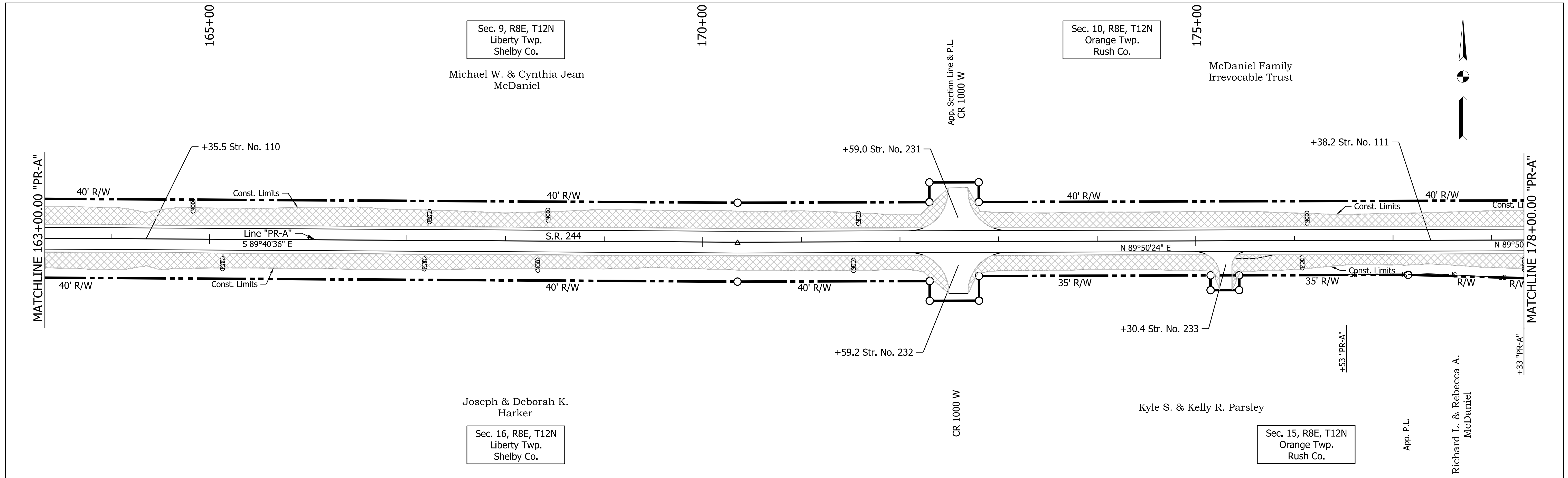
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DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 56 of 229
CONTRACT R-42264	PROJECT 1600801

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LEGEND

- SF— Perimeter Protection
- (MOD) Modified Check Dam Revetment Riprap
- △ Check Dam in Profile
- ▨ Manufactured Surface Production Product

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 57 of 229
CONTRACT R-42264	PROJECT 1600801

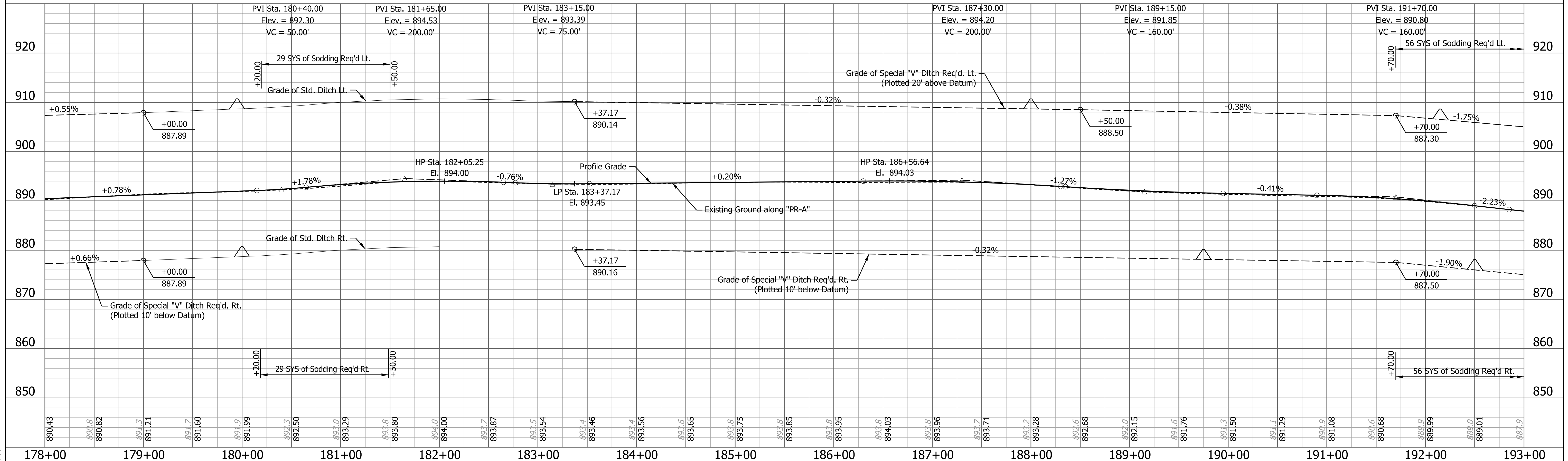
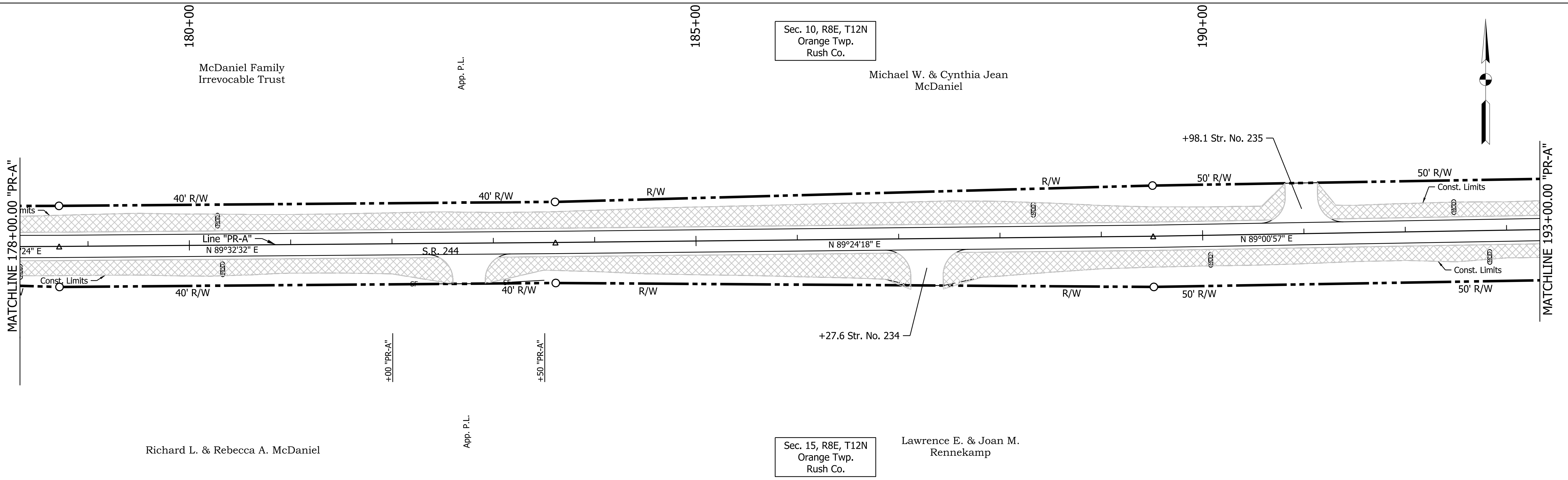
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 TIME PLOTTED: 3:57:57 PM

Sec. 10, R8E, T12N
 Orange Twp.
 Rush Co.

Michael W. & Cynthia Jean
 McDaniel

Sec. 15, R8E, T12N
 Orange Twp.
 Rush Co.

Lawrence E. & Joan M.
 Rennkamp



LEGEND	
	Perimeter Protection
	Modified Check Dam Revetment Riprap
	Check Dam in Profile
	Manufactured Surface Production Product

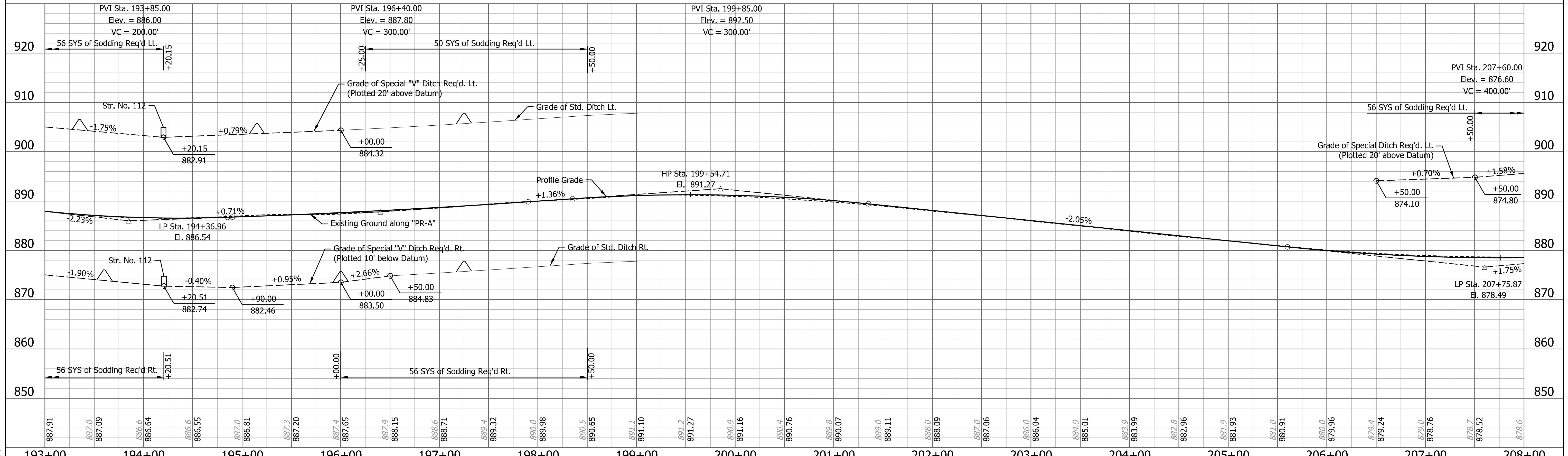
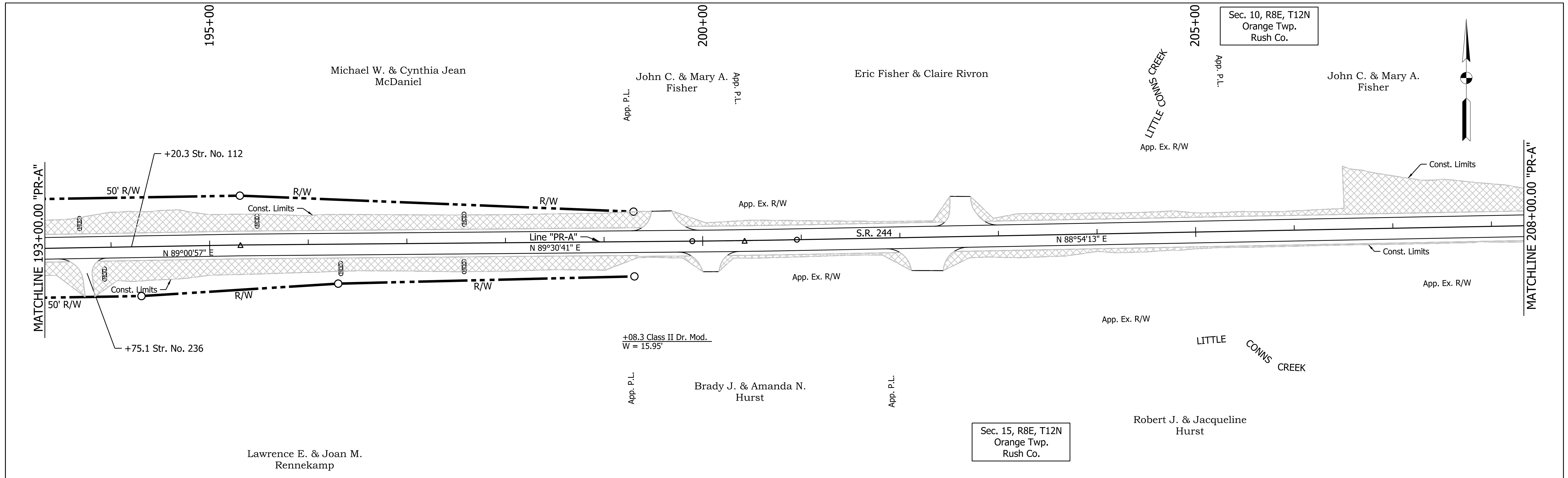
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DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
 S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 10'	1600801
SURVEY BOOK	SHEETS
	58 of 229
CONTRACT	PROJECT
R-42264	1600801

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LEGEND

- SF— Perimeter Protection
- (MOD) Modified Check Dam Revetment Riprap
- △ Check Dam in Profile
- ▨ Manufactured Surface Production Product

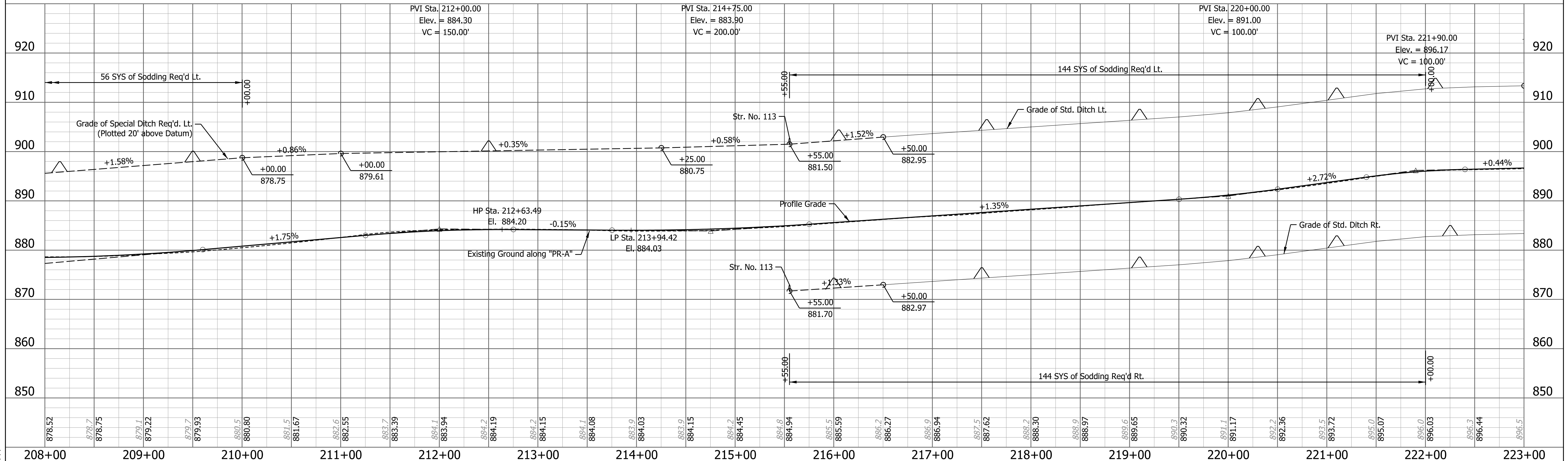
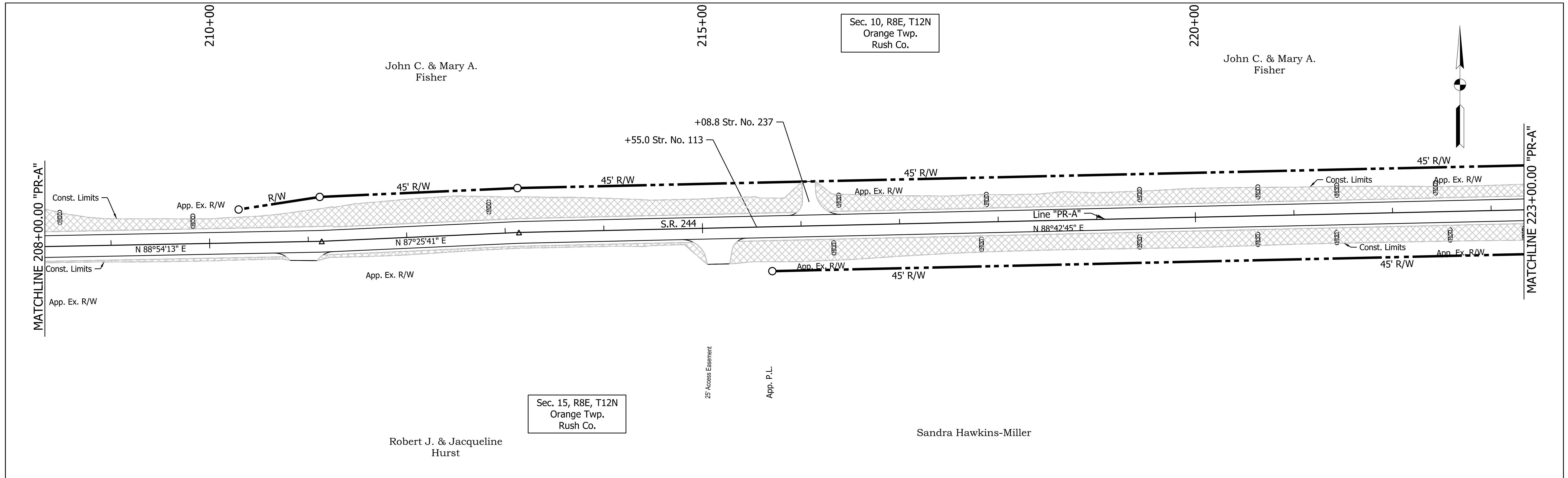
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 59 of 229
CONTRACT R-42264	PROJECT 1600801

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 MODEL NAME: Sheet
 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:58:10 PM



LEGEND

- SF— Perimeter Protection
- (MOD) Modified Check Dam Revetment Riprap
- △ Check Dam in Profile
- ▨ Manufactured Surface Production Product

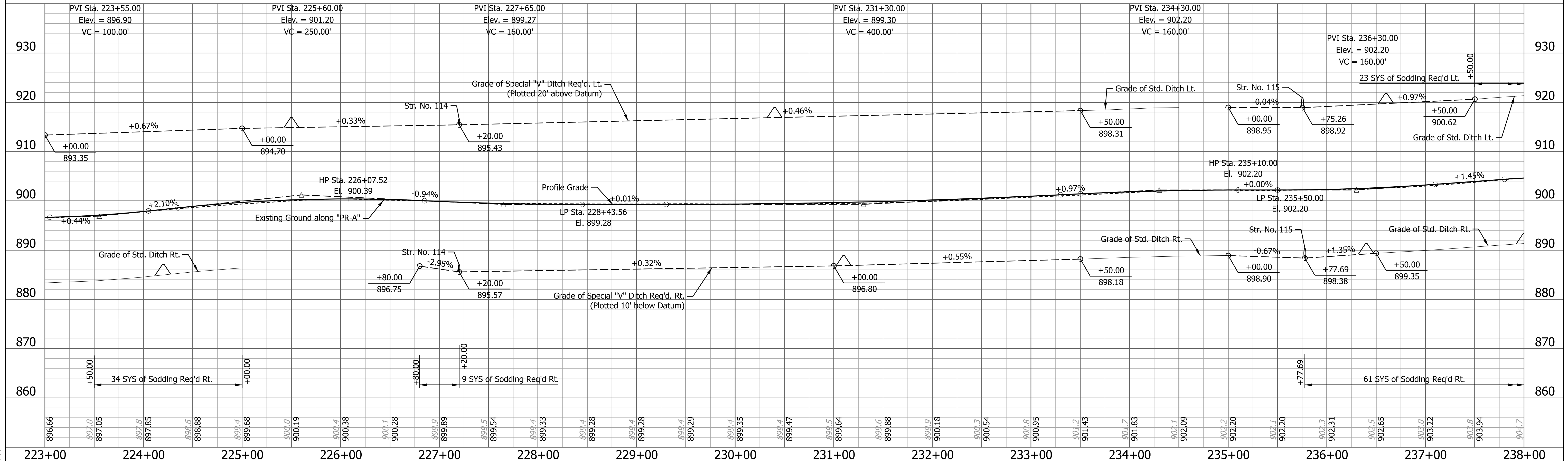
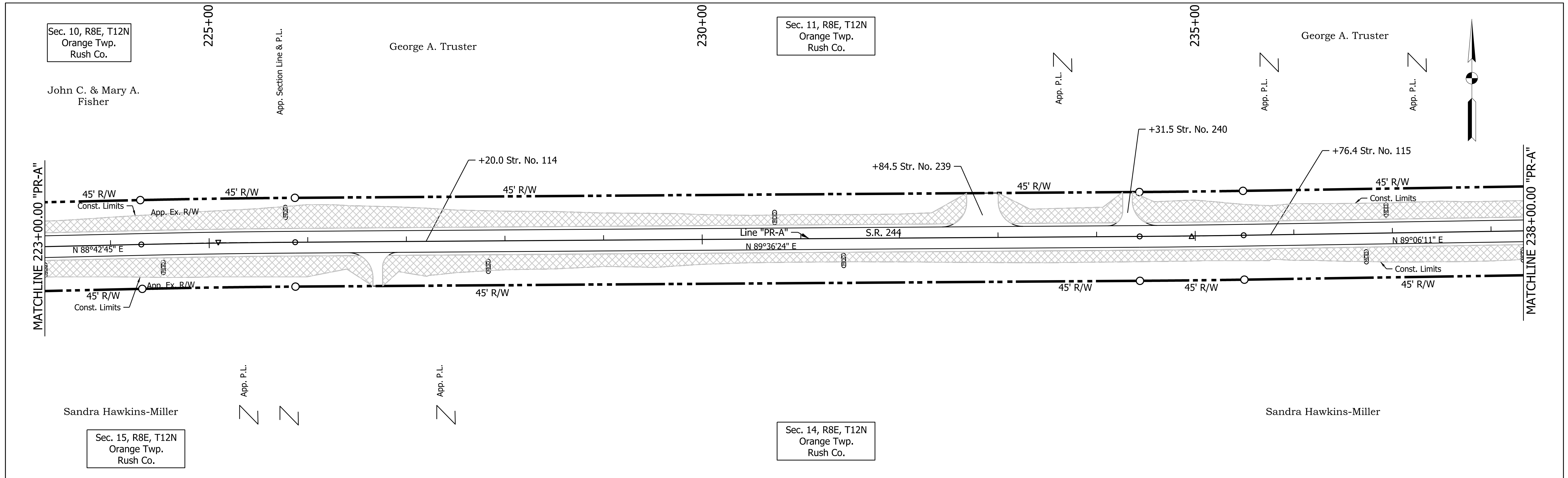
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

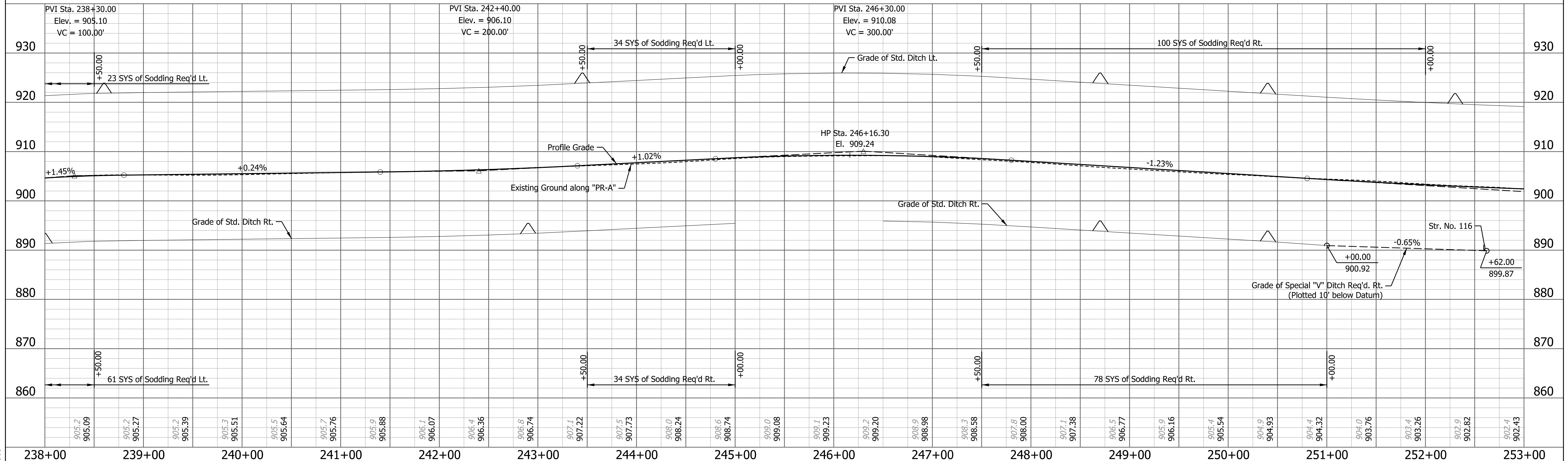
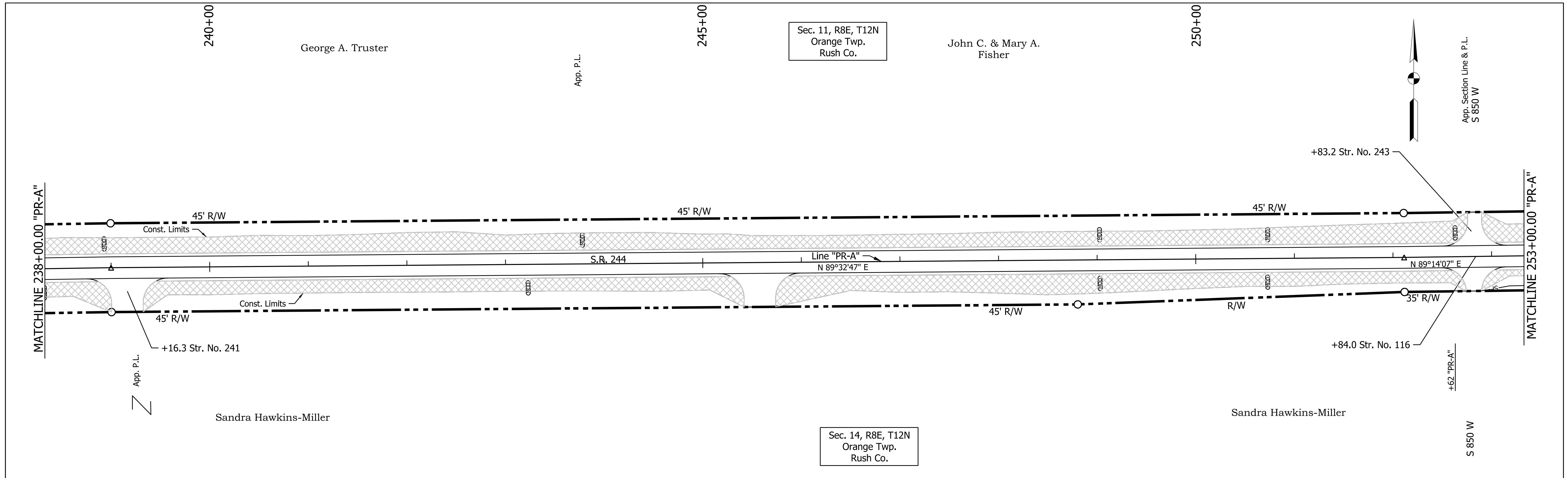
HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 60 of 229
CONTRACT R-42264	PROJECT 1600801

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 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:58:14 PM



LEGEND —SF— Perimeter Protection (MOD) Modified Check Dam Revetment Riprap Check Dam in Profile Manufactured Surface Production Product		RECOMMENDED FOR APPROVAL _____ DATE _____ DESIGN ENGINEER _____		INDIANA DEPARTMENT OF TRANSPORTATION TEMPORARY EROSION CONTROL DETAILS S.R. 244 - LINE "PR-A"		HORIZONTAL SCALE 1" = 50' BRIDGE FILE	
DESIGNED: CJC DRAWN: JSS CHECKED: SJS CHECKED: SJS		VERTICAL SCALE 1" = 10' DESIGNATION 1600801				SURVEY BOOK SHEETS 61 of 229 CONTRACT R-42264 PROJECT 1600801	

PATH AND FILENAME: V:\Projects\ANY\K5\060242.00\09_Design-DWG\Drawings\Hwy\MSTW\Sheet Drawings\Site TEC_50_19.dgn
 MODEL NAME: Sheet
 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:58:19 PM



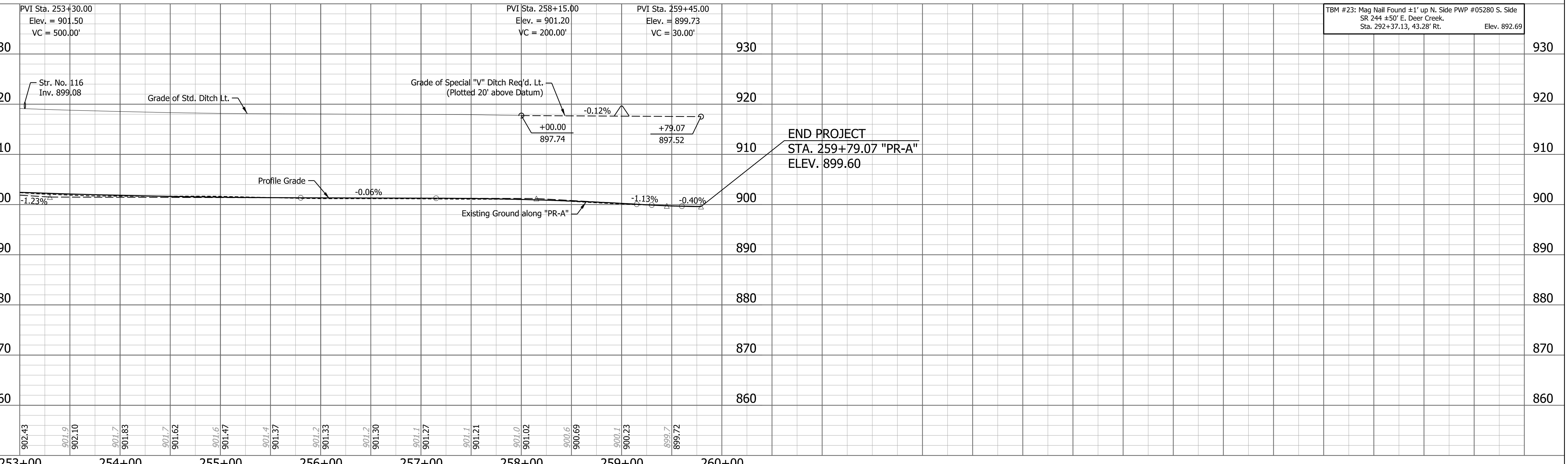
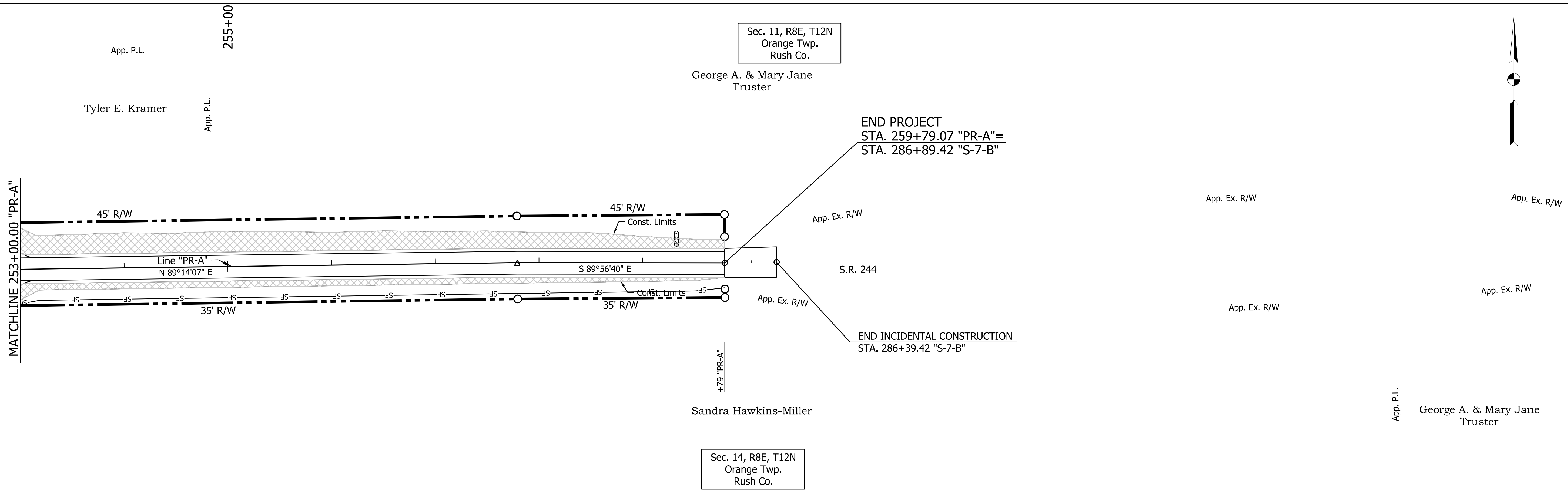
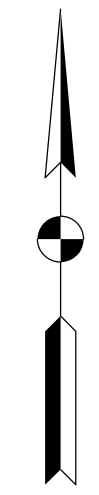
LEGEND	
	Perimeter Protection
	Modified Check Dam Revetment Riprap
	Check Dam in Profile
	Manufactured Surface Production Product

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: CJC	DRAWN: JSS	
CHECKED: SJS	CHECKED: SJS	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL DETAILS
S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 10'	DESIGNATION 1600801
SURVEY BOOK	SHEETS 62 of 229
CONTRACT R-42264	PROJECT 1600801



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 MODEL NAME: Sheet
 DATE PLOTTED: 4/22/2022
 TIME PLOTTED: 3:58:28 PM

LEGEND (K) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on 660 lb/syd QC/QA-HMA, 2, 64, Base, 19.0 mm on Subgrade Treatment Type IC (R) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on 275 lb/syd QC/QA-HMA, 2, 64, Intermediate 19.0 mm on Asphalt Milling, Variable (4" Max) (R1) 165 lb/syd QC/QA-HMA, 2, 64, Surface, 9.5 mm on Milling, Asphalt, 1.5" (3) Saw Cut Line		RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____ DESIGNED: CJC DRAWN: JSS CHECKED: SJS CHECKED: SJS	INDIANA DEPARTMENT OF TRANSPORTATION TEMPORARY EROSION CONTROL DETAILS S.R. 244 - LINE "PR-A"	HORIZONTAL SCALE 1" = 50' VERTICAL SCALE 1" = 10' SURVEY BOOK R-42264	BRIDGE FILE DESIGNATION 1600801 SHEETS 63 of 229 PROJECT 1600801
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TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			TEMPORARY SILT FENCE	SEDIMENT TRAP	MANUFACTURED SURFACE PRODUCTION PRODUCT	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	TEMPORARY FILTER STONE	TEMPORARY CHECK DAM REVETMENT RIPRAP	TEMPORARY GEOTEXTILES	DITCH INLET PROTECTION	REMARKS
	LEFT	MEDIAN	RIGHT										
	LFT	CYS	SYS	CYS	LFT	TON	CYS	SYS	EACH				
0+00.00			X						0.5	5.80	30.00		
4+75.00	X								0.5	5.80	30.00		
6+25.00			X						0.5	5.80	30.00		
7+00.00	X								0.5	5.80	30.00		
11+75.00			X						0.5	5.80	30.00		
11+75.00	X								0.5	5.80	30.00		
14+50.00			X						0.5	5.80	30.00		
17+00.00	X								0.5	5.80	30.00		
22+50.00			X						0.5	5.80	30.00		
23+50.00	X								0.5	5.80	30.00		
30+50.00			X						0.5	5.80	30.00		
30+50.00	X								0.5	5.80	30.00		
33+00.00			X						0.5	5.80	30.00		
33+00.00	X								0.5	5.80	30.00		
34+00.00			X						0.5	5.80	30.00		
35+00.00	X								0.5	5.80	30.00		
39+75.00			X						0.5	5.80	30.00		
39+75.00	X								0.5	5.80	30.00		
41+00.00			X						0.5	5.80	30.00		
41+00.00	X								0.5	5.80	30.00		
43+50.00			X						0.5	5.80	30.00		
44+25.00	X								0.5	5.80	30.00		
52+25.00			X						0.5	5.80	30.00		
52+25.00	X								0.5	5.80	30.00		
Sub Total									12	139.20	720.00		

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			TEMPORARY SILT FENCE	SEDIMENT TRAP	MANUFACTURED SURFACE PRODUCTION PRODUCT	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	TEMPORARY FILTER STONE	TEMPORARY CHECK DAM REVETMENT RIPRAP	TEMPORARY GEOTEXTILES	DITCH INLET PROTECTION	REMARKS
	LEFT	MEDIAN	RIGHT										
	LFT	CYS	SYS	CYS	LFT	TON	CYS	SYS	EACH				
53+50.00			X						0.5	5.80	30.00		
53+50.00	X								0.5	5.80	30.00		
55+00.00	X								0.5	5.80	30.00		
59+65.00			X						0.5	5.80	30.00		
61+50.00	X								0.5	5.80	30.00		
65+50.00	X								0.5	5.80	30.00		
66+40.00			X						0.5	5.80	30.00		
68+30.00			X						0.5	5.80	30.00		
70+70.00			X						0.5	5.80	30.00		
72+60.00	X								0.5	5.80	30.00		
73+60.00			X						0.5	5.80	30.00		
74+50.00	X								0.5	5.80	30.00		
75+60.00			X						0.5	5.80	30.00		
76+00.00	X								0.5	5.80	30.00		
77+65.00			X						0.5	5.80	30.00		
78+00.00	X								0.5	5.80	30.00		
86+00.00	X								0.5	5.80	30.00		
87+00.00	X								0.5	5.80	30.00		
87+00.00			X						0.5	5.80	30.00		
90+45.00			X						0.5	5.80	30.00		
94+05.00	X								0.5	5.80	30.00		
95+60.00			X						0.5	5.80	30.00		
97+65.00	X								0.5	5.80	30.00		
98+85.00			X						0.5	5.80	30.00		
Sub Total									12	139.20	720.00		

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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: SJS _____	DRAWN: JSS _____	
CHECKED: CJC _____	CHECKED: CJC _____	

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL TABLE
 S.R. 244 - LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
	1600801
SURVEY BOOK	SHEETS
	64 of 229
CONTRACT	PROJECT
R-42264	1600801

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			TEMPORARY SILT FENCE	SEDIMENT TRAP	MANUFACTURED SURFACE PRODUCTION PRODUCT	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	TEMPORARY FILTER STONE	TEMPORARY CHECK DAM REVETMENT RIPRAP	TEMPORARY GEOTEXTILES	DITCH INLET PROTECTION	REMARKS
	LEFT	MEDIAN	RIGHT										
	LFT	CYS	SYS	CYS	LFT	TON	CYS	SYS	EACH				
110+25.00	X								0.5	5.80	30.00		
110+50.00			X						0.5	5.80	30.00		
111+25.00			X						0.5	5.80	30.00		
112+00.00	X								0.5	5.80	30.00		
116+25.00	X								0.5	5.80	30.00		
125+20.00	X								0.5	5.80	30.00		
126+00.00			X						0.5	5.80	30.00		
127+85.00	X								0.5	5.80	30.00		
128+00.00			X						0.5	5.80	30.00		
129+75.00	X								0.5	5.80	30.00		
130+00.00			X						0.5	5.80	30.00		
130+95.00			X						0.5	5.80	30.00		
131+60.00			X						0.5	5.80	30.00		
132+15.00			X						0.5	5.80	30.00		
132+65.00			X						0.5	5.80	30.00		
133+15.00			X						0.5	5.80	30.00		
133+75.00			X						0.5	5.80	30.00		
142+25.00	X								0.5	5.80	30.00		
143+15.00			X						0.5	5.80	30.00		
143+50.00			X						0.5	5.80	30.00		
143+85.00			X						0.5	5.80	30.00		
144+15.00			X						0.5	5.80	30.00		
144+50.00			X						0.5	5.80	30.00		
144+80.00			X						0.5	5.80	30.00		
Sub Total									12	139.20	720.00		

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			TEMPORARY SILT FENCE	SEDIMENT TRAP	MANUFACTURED SURFACE PRODUCTION PRODUCT	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	TEMPORARY FILTER STONE	TEMPORARY CHECK DAM REVETMENT RIPRAP	TEMPORARY GEOTEXTILES	DITCH INLET PROTECTION	REMARKS
	LEFT	MEDIAN	RIGHT										
	LFT	CYS	SYS	CYS	LFT	TON	CYS	SYS	EACH				
152+45.00				X					0.5	5.80	30.00		
153+00.00	X								0.5	5.80	30.00		
153+20.00				X					0.5	5.80	30.00		
153+30.00	X								0.5	5.80	30.00		
153+70.00	X								0.5	5.80	30.00		
153+80.00				X					0.5	5.80	30.00		
154+05.00	X								0.5	5.80	30.00		
154+40.00	X								0.5	5.80	30.00		
154+45.00				X					0.5	5.80	30.00		
155+40.00				X					0.5	5.80	30.00		
155+45.00	X								0.5	5.80	30.00		
162+40.00	X								0.5	5.80	30.00		
162+90.00				X					0.5	5.80	30.00		
164+50.00	X								0.5	5.80	30.00		
164+80.00				X					0.5	5.80	30.00		
166+85.00				X					0.5	5.80	30.00		
166+90.00	X								0.5	5.80	30.00		
168+00.00				X					0.5	5.80	30.00		
168+10.00	X								0.5	5.80	30.00		
171+20.00				X					0.5	5.80	30.00		
171+25.00	X								0.5	5.80	30.00		
175+75.00				X					0.5	5.80	30.00		
175+80.00	X								0.5	5.80	30.00		
179+95.00	X								0.5	5.80	30.00		
Sub Total									12	139.20	720.00		

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: SJS	DRAWN: JSS	VERTICAL SCALE	DESIGNATION 1600801
CHECKED: CJC	CHECKED: CJC	TEMPORARY EROSION CONTROL TABLE S.R. 244 - LINE "PR-A"		SURVEY BOOK
			CONTRACT R-42264	SHEETS 65 of 229 PROJECT 1600801

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			TEMPORARY SILT FENCE	SEDIMENT TRAP	MANUFACTURED SURFACE PRODUCTION PRODUCT	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	TEMPORARY FILTER STONE	TEMPORARY CHECK DAM REVETMENT RIPRAP	TEMPORARY GEOTEXTILES	DITCH INLET PROTECTION	REMARKS
	LEFT	MEDIAN	RIGHT										
	LFT	CYS	SYS	CYS	LFT	TON	CYS	SYS	EACH				
180+00.00			X						0.5	5.80	30.00		
188+00.00	X								0.5	5.80	30.00		
189+75.00			X						0.5	5.80	30.00		
192+15.00	X								0.5	5.80	30.00		
192+50.00			X						0.5	5.80	30.00		
193+35.00	X								0.5	5.80	30.00		
193+60.00			X						0.5	5.80	30.00		
195+15.00	X								0.5	5.80	30.00		
196+00.00			X						0.5	5.80	30.00		
197+25.00			X						0.5	5.80	30.00		
197+25.00	X								0.5	5.80	30.00		
208+15.00	X								0.5	5.80	30.00		
209+50.00	X								0.5	5.80	30.00		
212+50.00	X								0.5	5.80	30.00		
216+00.00			X						0.5	5.80	30.00		
216+05.00	X								0.5	5.80	30.00		
217+50.00			X						0.5	5.80	30.00		
217+55.00	X								0.5	5.80	30.00		
219+10.00			X						0.5	5.80	30.00		
219+10.00	X								0.5	5.80	30.00		
220+30.00			X						0.5	5.80	30.00		
220+30.00	X								0.5	5.80	30.00		
221+10.00			X						0.5	5.80	30.00		
221+10.00	X								0.5	5.80	30.00		
Sub Total									12	139.20	720.00		

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			TEMPORARY SILT FENCE	SEDIMENT TRAP	MANUFACTURED SURFACE PRODUCTION PRODUCT	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	TEMPORARY FILTER STONE	TEMPORARY CHECK DAM REVETMENT RIPRAP	TEMPORARY GEOTEXTILES	DITCH INLET PROTECTION	REMARKS
	LEFT	MEDIAN	RIGHT										
	LFT	CYS	SYS	CYS	LFT	TON	CYS	SYS	EACH				
222+10.00	X								0.5	5.80	30.00		
222+25.00			X						0.5	5.80	30.00		
224+20.00			X						0.5	5.80	30.00		
225+50.00	X								0.5	5.80	30.00		
230+40.00	X								0.5	5.80	30.00		
231+10.00			X						0.5	5.80	30.00		
236+40.00			X						0.5	5.80	30.00		
236+60.00	X								0.5	5.80	30.00		
238+00.00			X						0.5	5.80	30.00		
238+60.00	X								0.5	5.80	30.00		
242+90.00			X						0.5	5.80	30.00		
243+45.00	X								0.5	5.80	30.00		
248+70.00			X						0.5	5.80	30.00		
248+70.00	X								0.5	5.80	30.00		
250+40.00			X						0.5	5.80	30.00		
250+40.00	X								0.5	5.80	30.00		
252+30.00	X								0.5	5.80	30.00		
259+00.00	X								0.5	5.80	30.00		
Sub Total									9	104.40	540.00		

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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
		VERTICAL SCALE	DESIGNATION 1600801
DESIGNED: SJS _____ DRAWN: JSS _____	TEMPORARY EROSION CONTROL TABLE S.R. 244 - LINE "PR-A"	SURVEY BOOK	SHEETS 66 of 229
CHECKED: CJC _____ CHECKED: CJC _____		CONTRACT R-42264	PROJECT 1600801

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			TEMPORARY SILT FENCE	SEDIMENT TRAP	MANUFACTURED SURFACE PRODUCTION PRODUCT	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	TEMPORARY FILTER STONE	TEMPORARY CHECK DAM REVETMENT RIPRAP	TEMPORARY GEOTEXTILES	DITCH INLET PROTECTION	REMARKS
	LEFT	MEDIAN	RIGHT										
				LFT	CYS	SYS	CYS	LFT	TON	CYS	SYS	EACH	
0+00.0 TO 3+50.0	X			341									
104+00.0 TO 107+00.0			X	263									
117+50.0 TO 118+58.0	X			112									
137+40.0 TO 140+00.0	X			261									
137+40.0 TO 142+80.0			X	548									
146+50.0 TO 150+75.0	X			601									
176+53.0 TO 178+33.0			X	181									
182+00.0 TO 183+50.0			X	119									
252+62.0 TO 259+79.1			X	703									
Sub Total				3129					0	0	0		

TEMPORARY EROSION CONTROL TABLE

STATION	LOCATION			TEMPORARY SILT FENCE	SEDIMENT TRAP	MANUFACTURED SURFACE PRODUCTION PRODUCT	RIPRAP SPLASHPAD	STRAW BALES DITCH CHECK	TEMPORARY FILTER STONE	TEMPORARY CHECK DAM REVETMENT RIPRAP	TEMPORARY GEOTEXTILES	DITCH INLET PROTECTION	REMARKS
	LEFT	MEDIAN	RIGHT										
				LFT	CYS	SYS	CYS	LFT	TON	CYS	SYS	EACH	
0+00.00 TO 66+00.0	X		X			22907.23							
65+99.73 TO 118+75.0	X		X			15040.88							
118+75.0 TO 172+50.0	X		X			17104.59							
172+50.0 TO 259+79.1	X		X			27102.13							
Sub Total				0		82154.83							
Total				3129		82154.83			69	800.4	4140		

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 TIME PLOTTED: 3:58:34 PM

RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER DATE

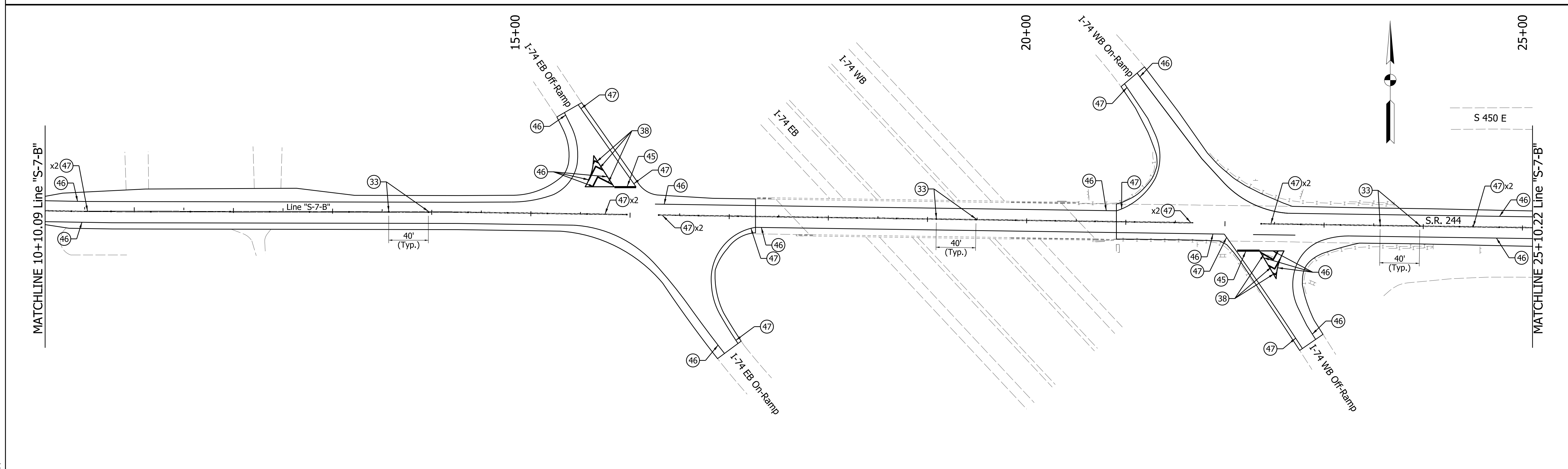
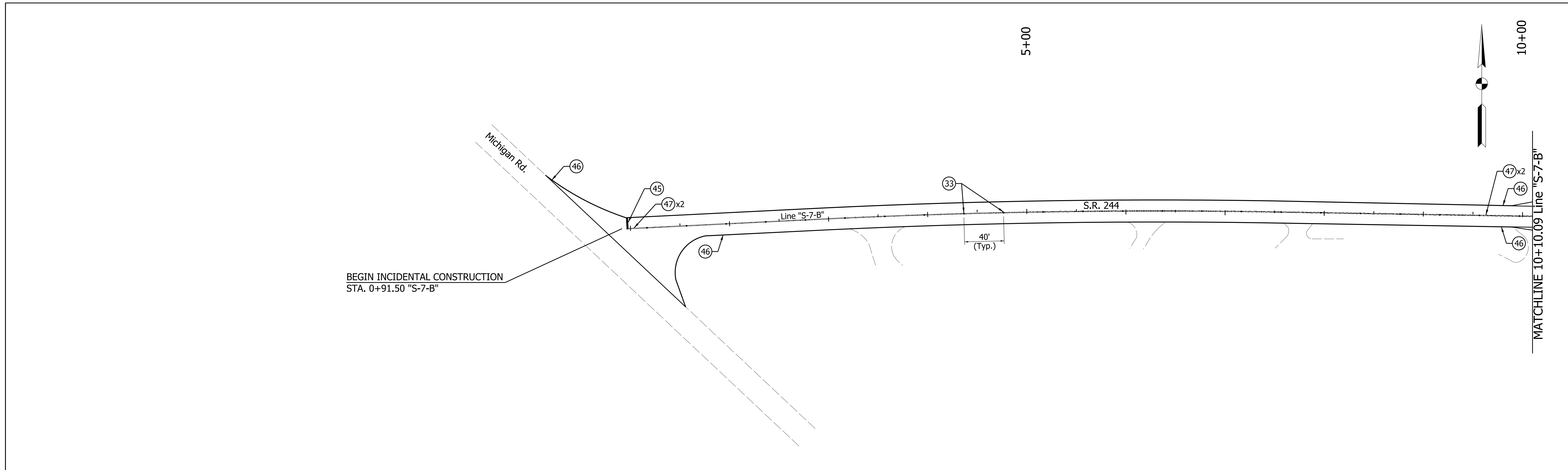
DESIGNED: SJS DRAWN: JSS
 CHECKED: CJC CHECKED: CJC

INDIANA DEPARTMENT OF TRANSPORTATION

TEMPORARY EROSION CONTROL TABLE
 S.R. 244 - LINE "PR-A"

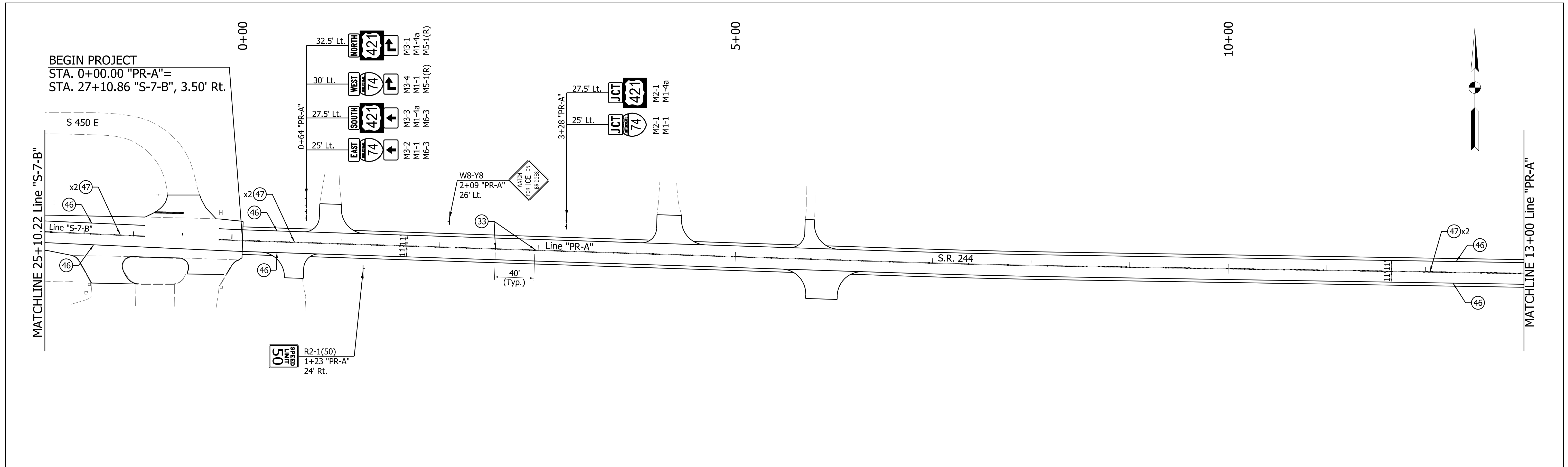
HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	DESIGNATION
	1600801
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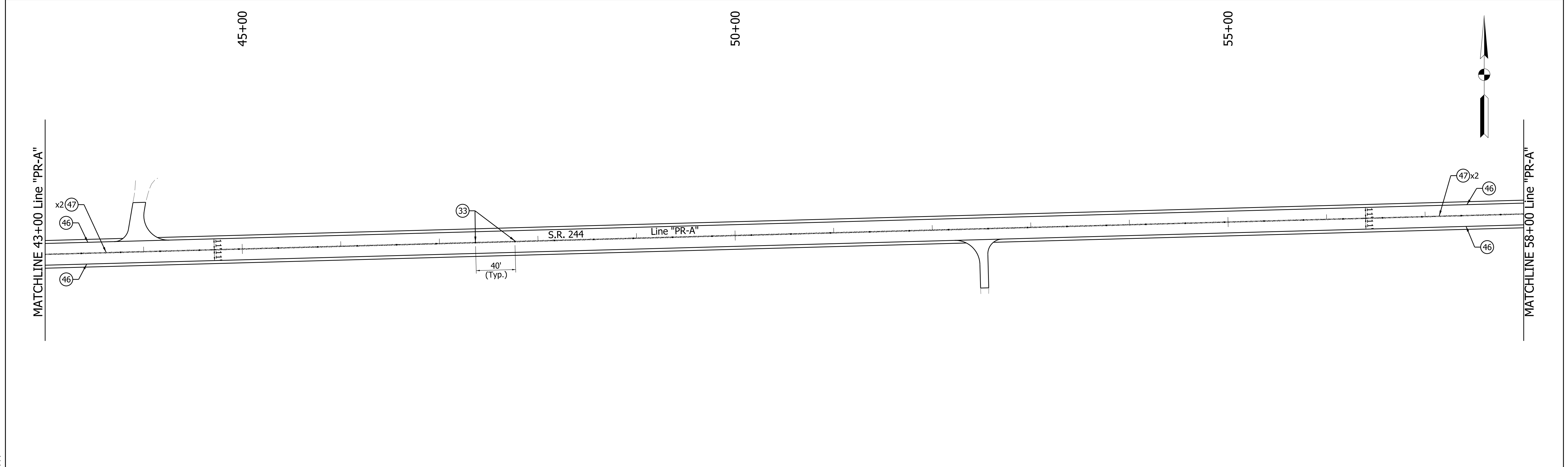
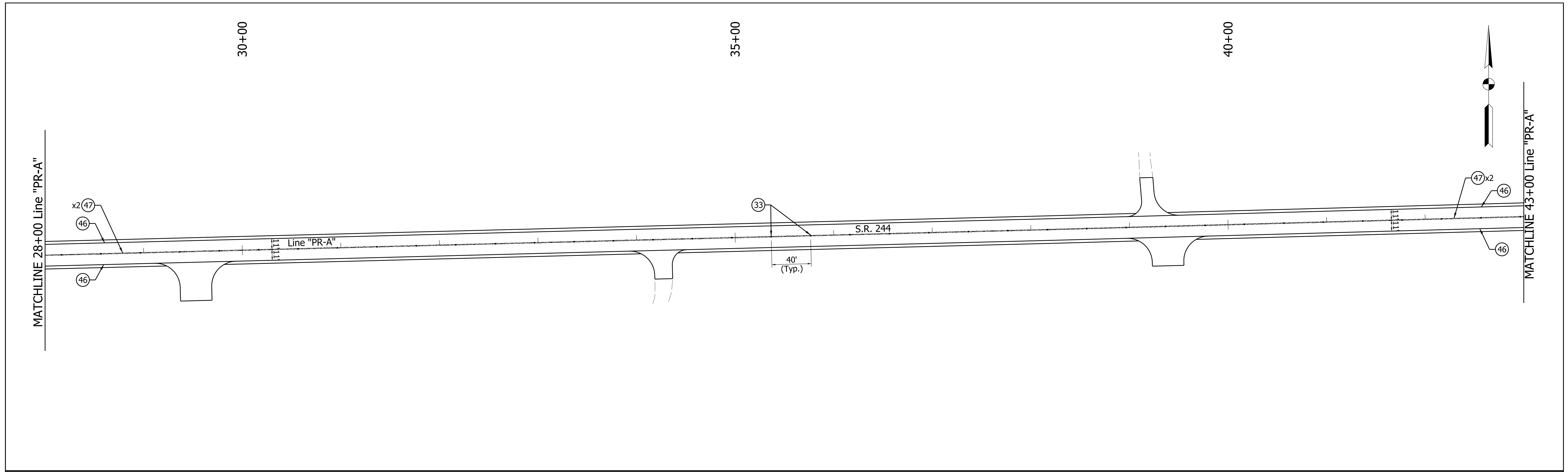


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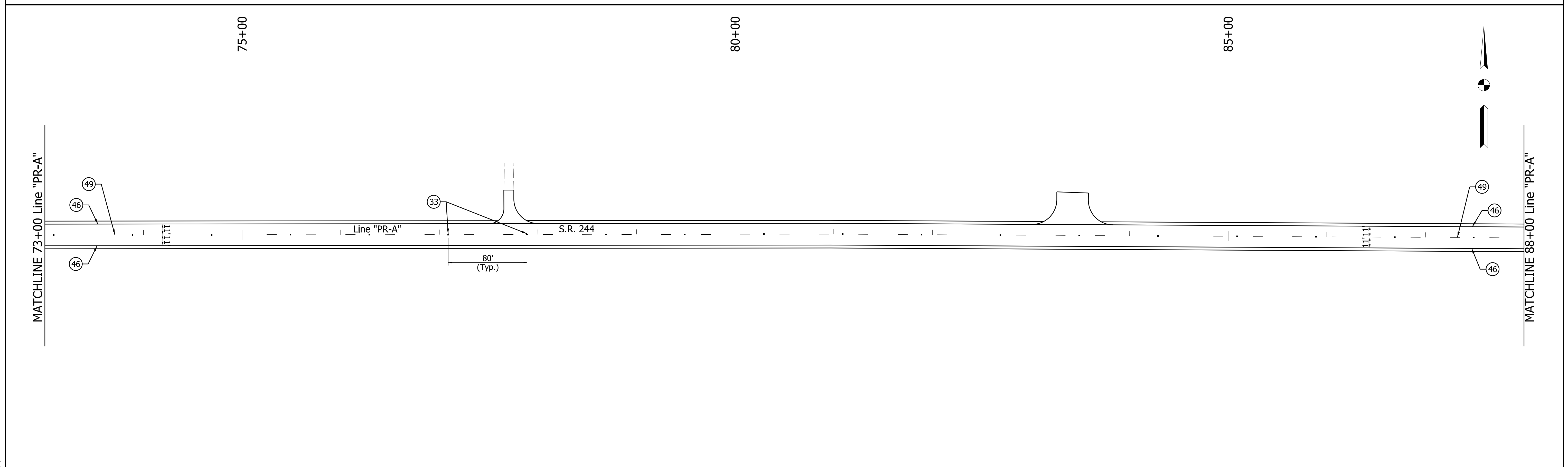
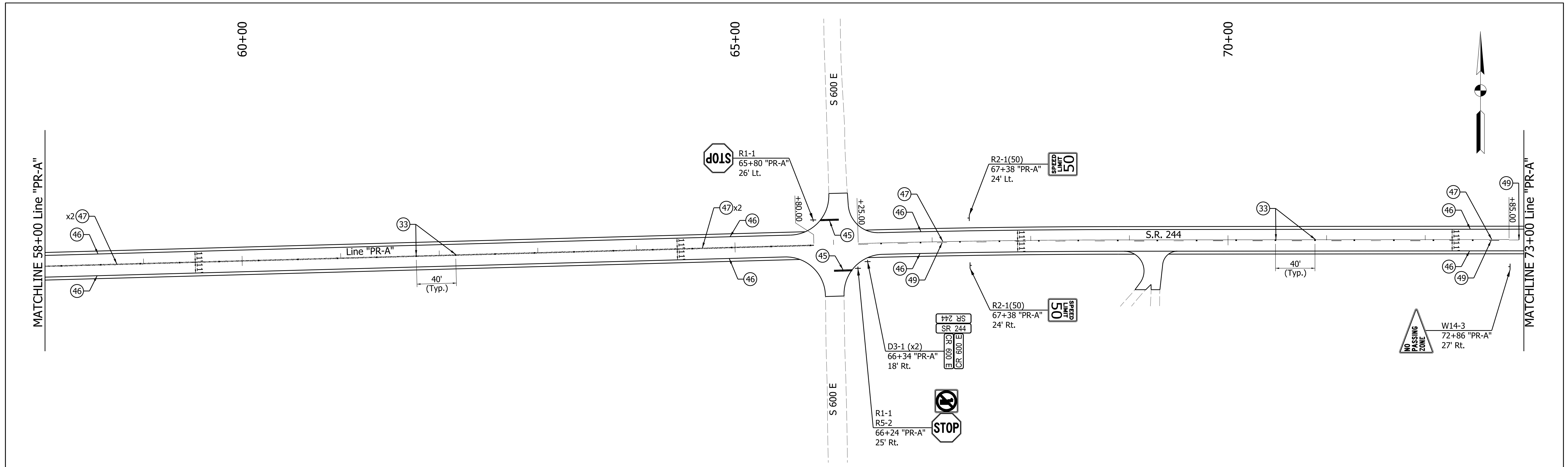
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INDIANA
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PAVEMENT MARKING & SIGNING PLAN
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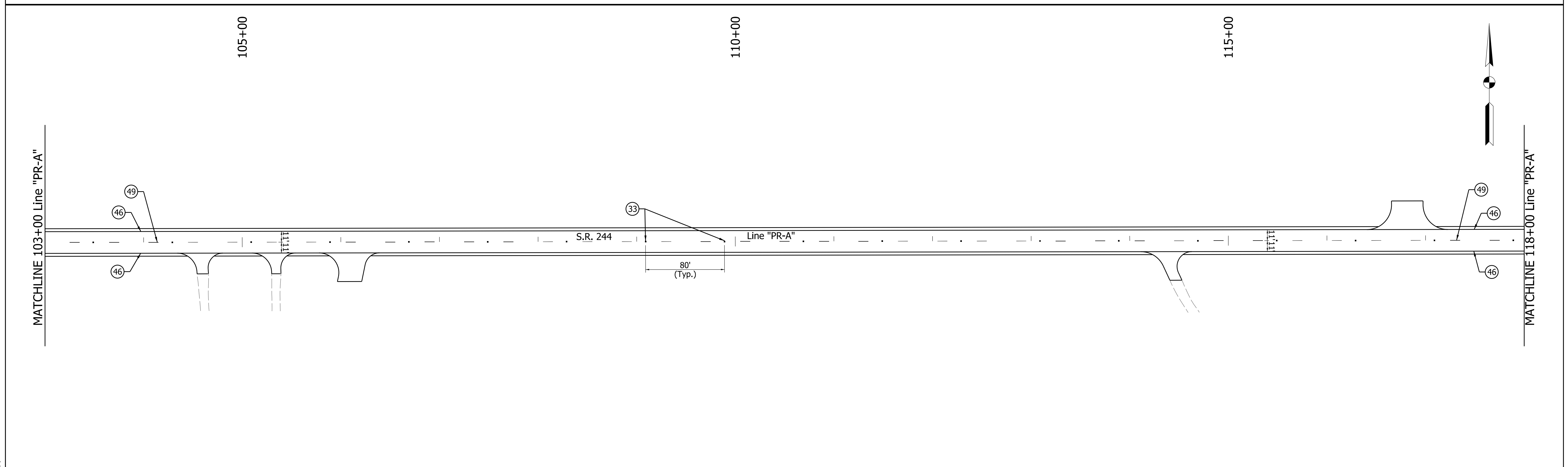
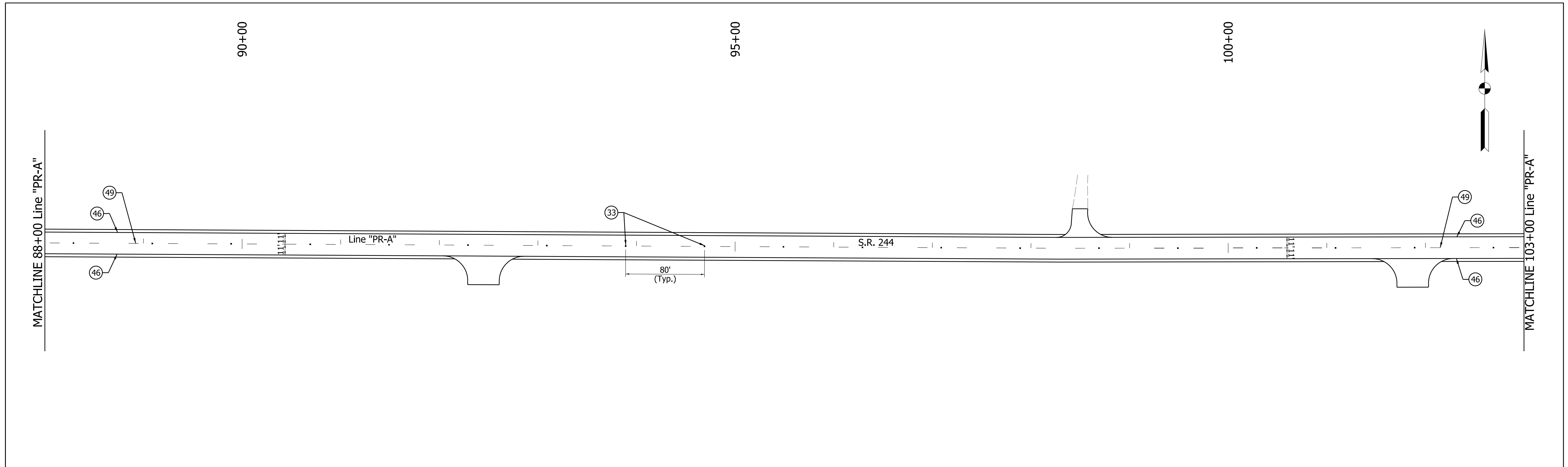
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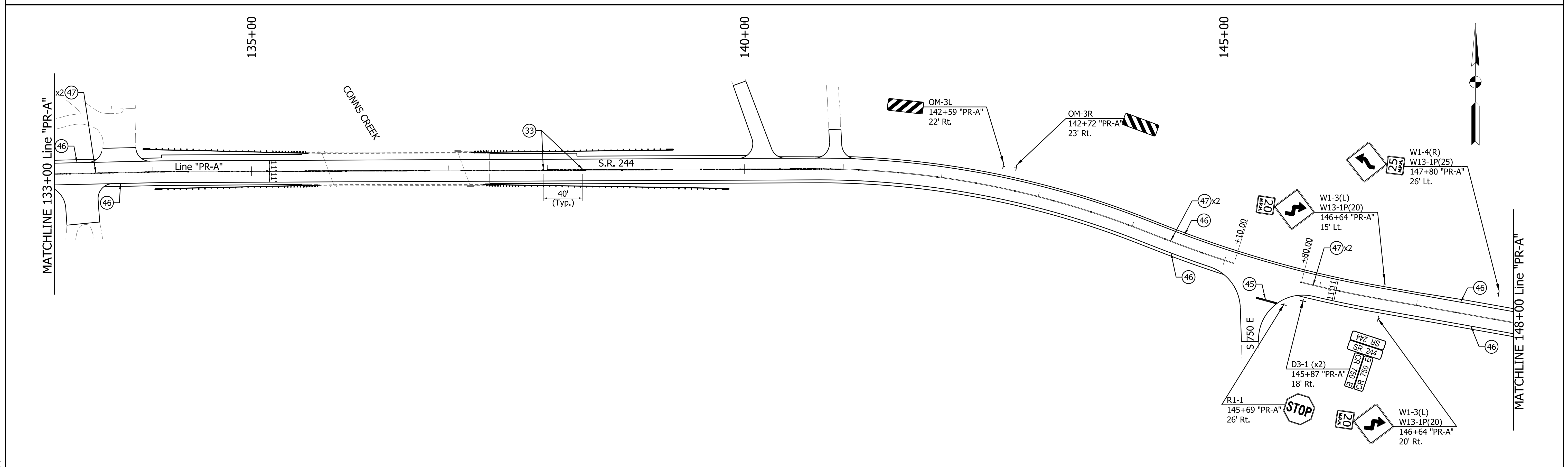
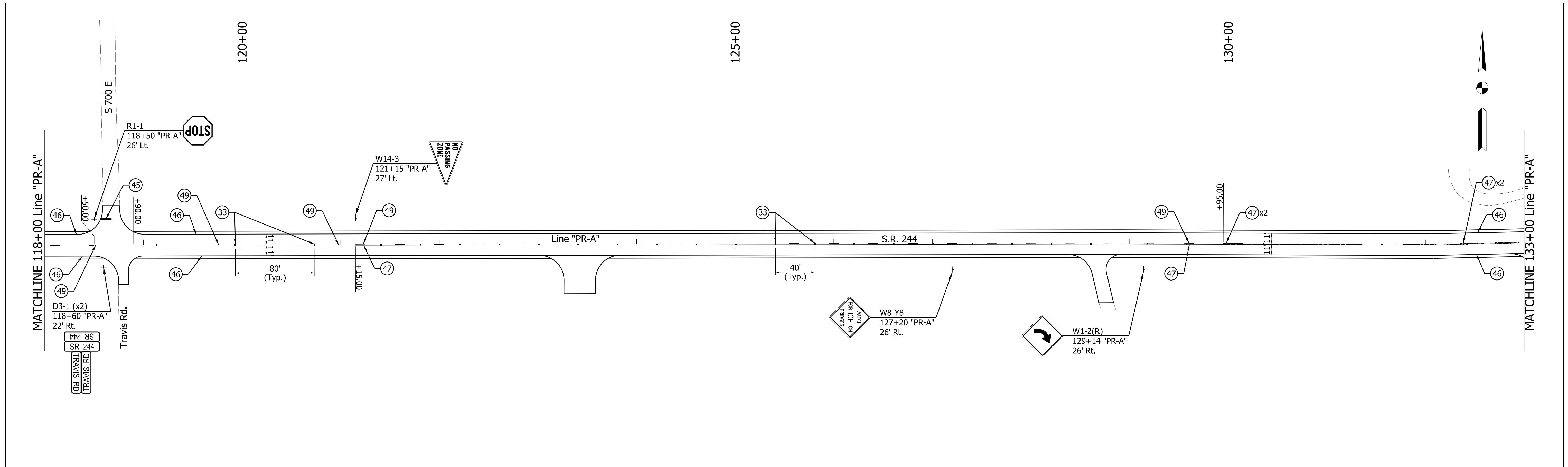
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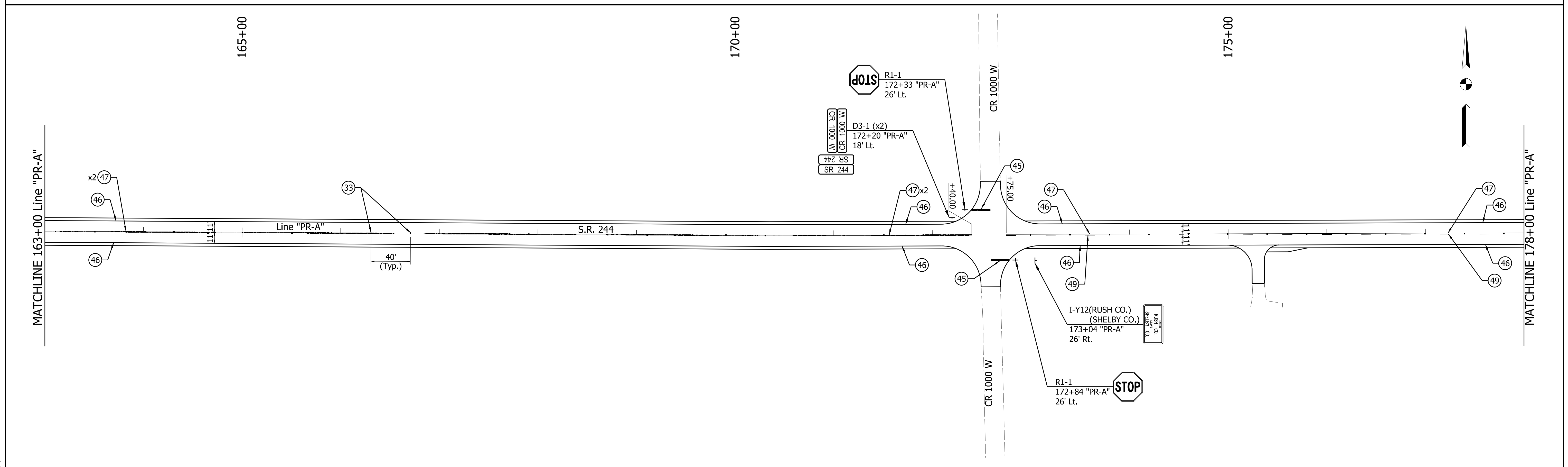
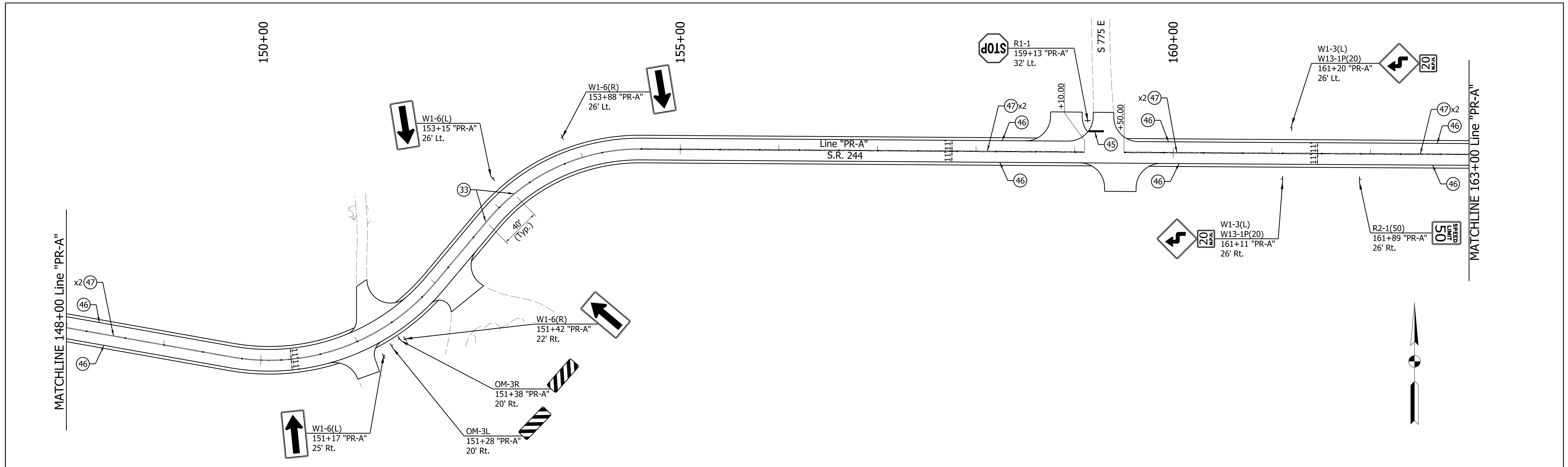
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INDIANA
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S.R. 244 - LINE "PR-A"

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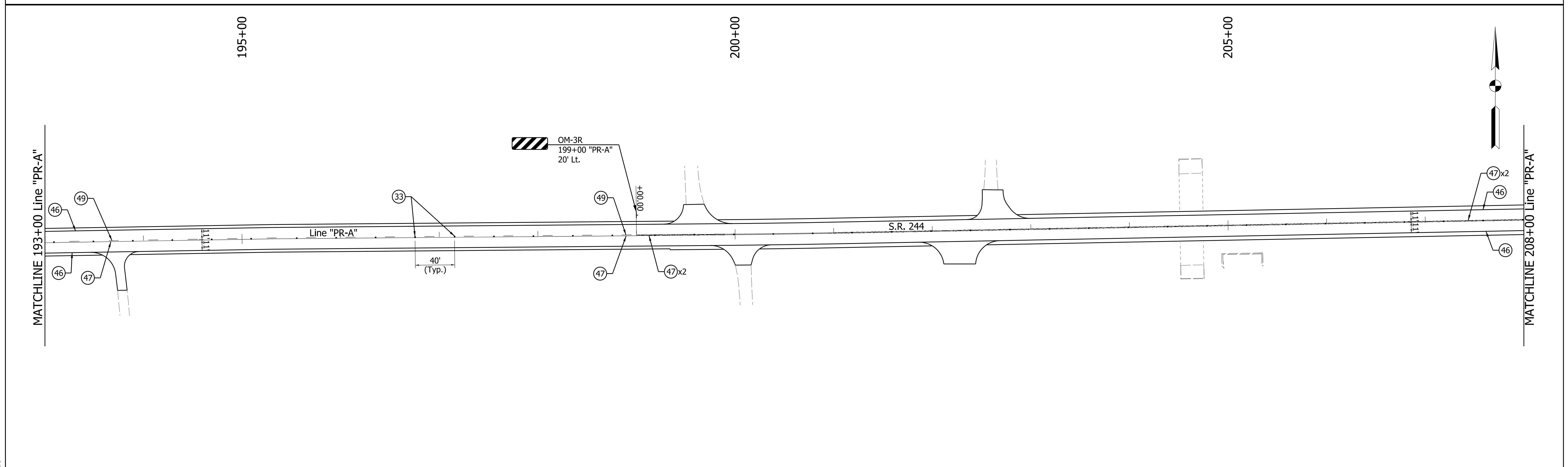
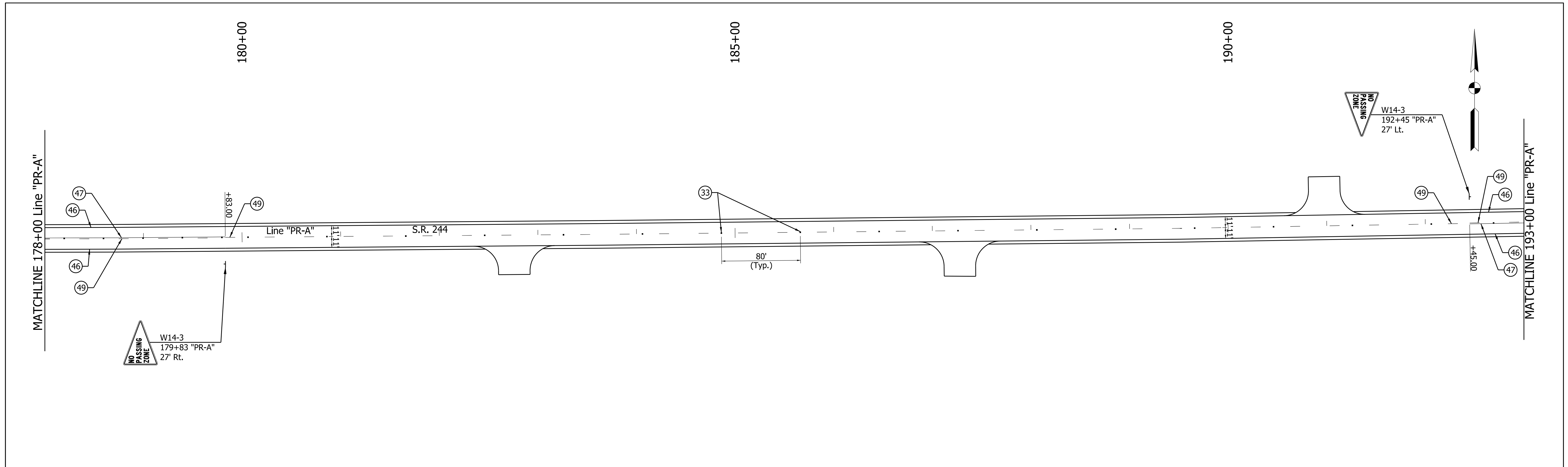
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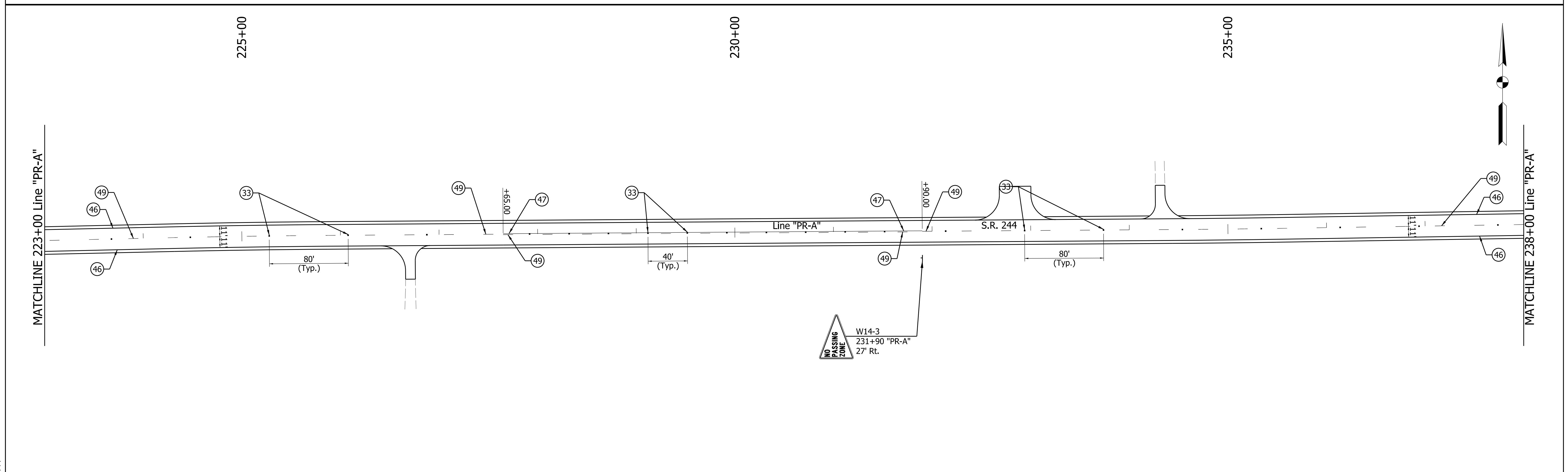
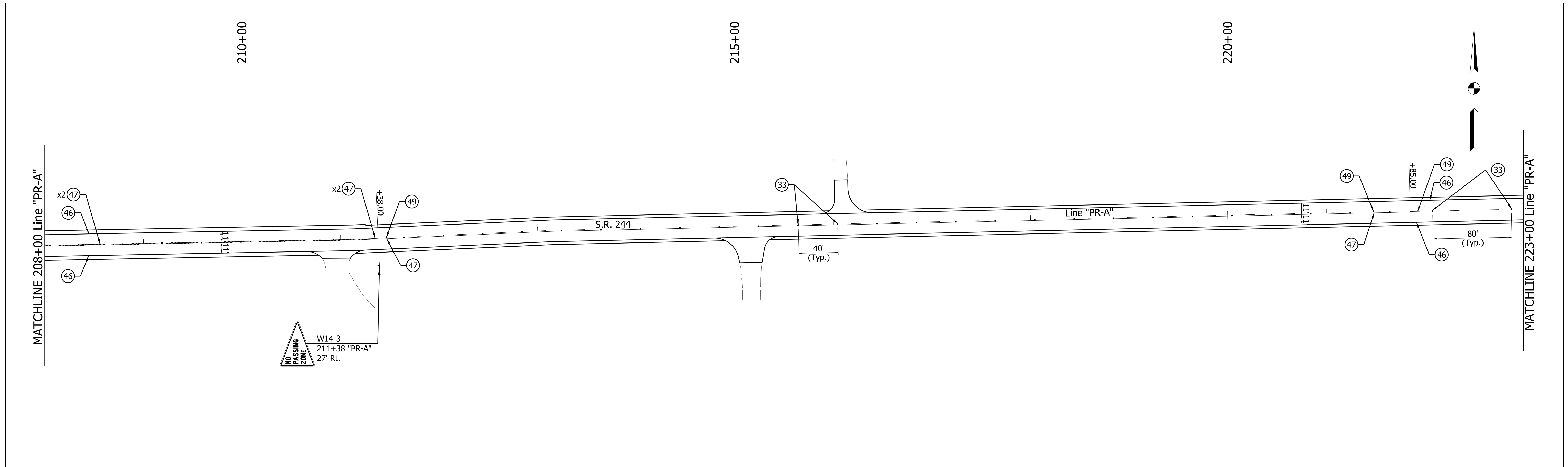
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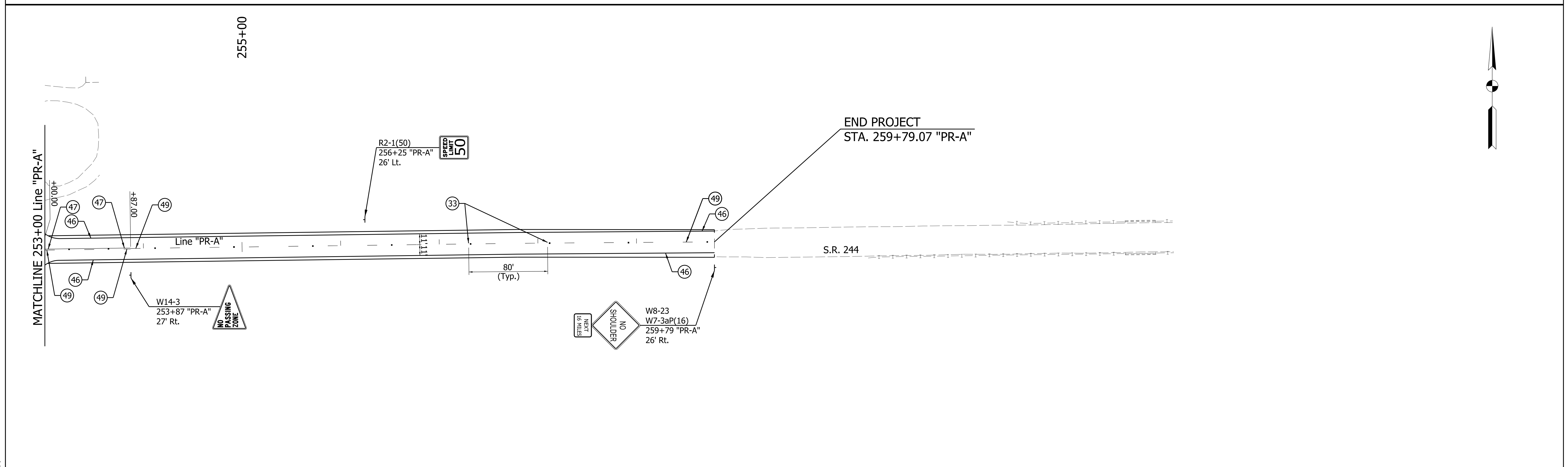
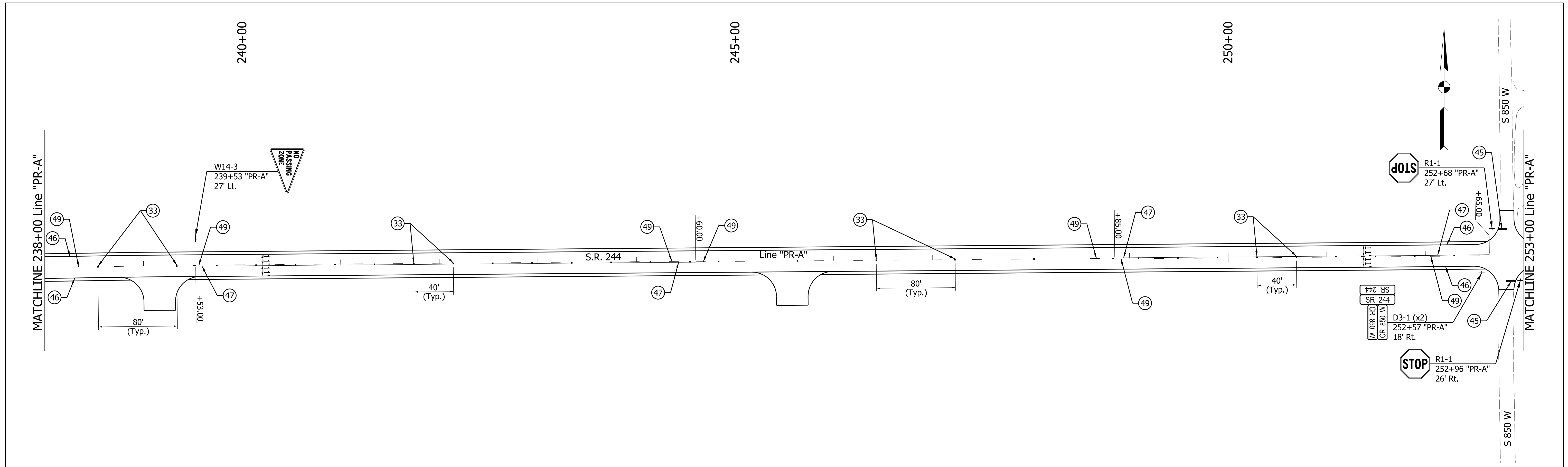
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(47)	Line, Thermoplastic, Solid, Yellow, 6 in.								
(49)	Line, Thermoplastic, Broken, Yellow, 6 in.								

Affidavit of Publication

STATE OF IN }
COUNTY OF SHELBY } SS

Public Notice Des. No. 1600801

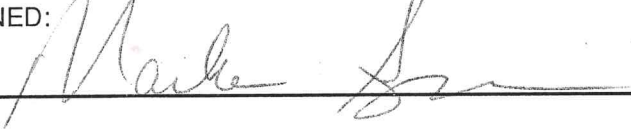
Marka Sonoga, being duly sworn, says:

That she is Advertising Clerk of the Shelbyville News, a daily newspaper of general circulation, printed and published in Shelbyville, Shelby County, IN; that the publication, a copy of which is attached hereto, was published in the said newspaper on the following dates:

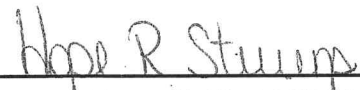
October 07, 2022

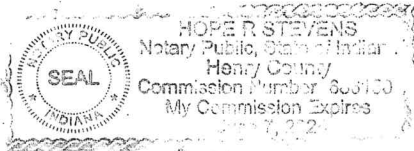
Publication Fees: \$ 210.23

That said newspaper was regularly issued and circulated on those dates.

SIGNED: 

Subscribed to and sworn to me this 7th day of October 2022.


Hope R Stevens, Notary Public 06/07/2024



70077813 70485182

Gray & Pape Heritage Management
5807 Post Road
Indianapolis, IN 46216

The Indiana Department of Transportation (INDOT) is planning to undertake a rehabilitation of SR 244 in Shelby and Rush counties, funded in part by the Federal Highway Administration. The project is located on SR 244, from Michigan Road to 0.09 kilometers (0.06-mile) west of Deer Creek in Liberty Township Shelby County and Orange Township Rush County, Indiana.

Under the preferred alternative, the proposed project would involve improved roadway that meets future traffic capacity, affords accommodations for moving agricultural machinery, and addresses repeated maintenance concerns along the corridor. New pavement will be installed for new shoulders and the roadway will be slightly re-aligned in some areas to avoid potential historic resources. The rehabilitated roadway will provide two 11-foot travel lanes with 5-foot usable (4-foot paved) shoulders. The exact amount of ROW is unknown at this time.

Properties listed in or eligible for the National Register of Historic Places (NRHP) located within the Area of Potential Effects (APE) include the Liberty Township District Number 2 School (NR-1034) and the Saint Vincent DePaul Historic District, which includes Saint Vincent's Catholic Church (IHSSI 145-657-35013; 4218 E Michigan Road), Saint Vincent's Catholic School (IHSSI 145-657-35014; 4218 East Michigan Road), Saint Vincent's Catholic Church Cemetery (IHSSI 145-657-35013; 4218 E Michigan Road), Saint Vincent DePaul Statue (IHSSI 010-657-00411; 4218 E Michigan Road), Saint Vincent's Rectory (IHSSI 145-657-35012; 4218 E Michigan Road), and Bauer Number 574 - Saint Vincent's Hall (IHSSI 145-657-350110; 4072 E Michigan Rd), and four non-contributing resources (shed, Fellowship Hall, 4080 E Michigan Road, and a basketball court). The State Historic Preservation Office also considers the Mahan Farmstead, (IHSSI 139-003-50022; 9617 W SR 244) to be eligible for the NRHP. The proposed action impacts properties listed in or eligible for the NRHP. The Indiana Department of Transportation (INDOT), on behalf of the FHWA, has issued a "No Adverse Effect" finding for the project because the project will not diminish the integrity of the characteristics that qualify the historic properties within the APE for inclusion in the NRHP. In accordance with the National Historic Preservation Act, the views of the public are being sought regarding the effect of the proposed project on the historic elements as per 36 CFR 800.2(d), 800.3(e) and 800.6(a)(4). Pursuant to 36 CFR 800.4(d)(2), the documentation specified in 36 CFR 800.11(e) is available for inspection in the office of Gray & Pape, Inc. Additionally, this documentation can be viewed electronically by accessing INDOT's Section 106 document posting website IN SCOPE at <http://erms.indot.in.gov/Section106Documents>. This documentation serves as the basis for the "No Adverse Effect" finding. The views of the public on this effect finding are being sought. Please reply with any comments to Patrick Carpenter, Gray & Pape, Inc., 5807 Post Road, Indianapolis, IN 46216, 317-351-0914, or at pcarpenter@graypape.com no later than November 12, 2022.

In accordance with the "Americans with Disabilities Act", if you have a disability for which INDOT needs to provide accessibility to the document(s) such as interpreters or readers, please contact Sarah Doyle at 317-409-6167 or sdoyle@indot.in.gov.

Division of Historic Preservation & Archaeology · 402 W. Washington Street, W274 · Indianapolis, IN 46204-2739
Phone 317-232-1646 · Fax 317-232-0693 · dhp@dnr.IN.gov ·



November 1, 2022

Jeff Laswell
Gray & Pape Heritage Management
5807 North Post Road
Indianapolis, Indiana 46216

Federal Agency: Indiana Department of Transportation (“INDOT”),
on behalf of Federal Highway Administration, Indiana Division (“FHWA”)

Re: DUAL REVIEW: Indiana Department of Transportation’s finding of “no adverse effect,” on
behalf of the Federal Highway Administration, for the SR 244 road rehabilitation from 0.06 miles
east of the I-74 to 5.18 miles east of I-74 at Deer Creek (Des. No. 1600801; DHPA 26215)

Dear Mr. Laswell:

Pursuant to Section 106 of the National Historic Preservation Act of 1966, as amended (54 U.S.C. § 306108), 36 C.F.R. Part 800, the Section 106 “Programmatic Agreement (PA) Among the Federal Highway Administration, the Indiana Department of Transportation, the Advisory Council on Historic Preservation and the Indiana State Historic Preservation Office Regarding the Implementation of the Federal Aid Highway Program In the State of Indiana,” Indiana Code 14-21-1-18, and 312 Indiana Administrative Code (“IAC”) 20-4, the staff of the Indiana State Historic Preservation Officer (“Indiana SHPO”, “DNR-DHPA”) has reviewed your October 4, 2022 review request submittal form which enclosed the Indiana Department of Transportation’s (INDOT) finding and supporting documentation on behalf of the Federal Highway Administration (FHWA) which was received by our office the same day for this project in Orange Township of Rush County and Liberty Township of Shelby County, Indiana.

As a note, we identified that the term “de minimus” is misspelled (“de mimimus”) throughout the submission documentation. We strongly suggest that the correct spelling of the term be updated throughout the documentation prior to sending it to the FHWA for approval.

For the benefit of those recipients of this letter who are not Section 106 consulting parties, please be aware that a copy of INDOT’s effects document, letter, and additional information, along with all previous submissions on this project by INDOT, can be found online at <http://erms.indot.in.gov/Section106Documents/>. From there, search by this project’s designation number: 1600801.

As we previously stated, the area of potential effects (“APE”) proposed in the HPR appears to be of adequate size to encompass the geographic area in which direct and indirect effects of a project of this nature could occur. We agree with the conclusions of the HPR that the Liberty Township District Number 2 School (NR-1034) is listed in the National Register of Historic Places (“NRHP”) and located within the project’s APE.

Additionally, we previously stated, the buildings that comprise the Saint Vincent DePaul complex (Indiana Historic Sites & Structures Inventory [“IHSSI”] #145-657-35011, 145-657-35012, 145-657-35013, and 145-657-35014), and the Mahan Farmstead at 9617 West SR 244 (IHSSI # 139-003-50022) are eligible for inclusion in the NRHP under Criterion A and Criterion C. Furthermore, the house at 6739 East SR 244, the House at 4614 East SR 244, the House at 6881 East SR 244, and the Huffman House at 9289 West SR 244 (IHSSI #139-003-50023) are not eligible for inclusion in the NRHP.

It is our understanding that no project-related ground-disturbing activities are proposed for areas that lie within the boundaries of Rockwell (CR-73-55) and Saint Vincent (CR-73-56) cemeteries. The aforementioned cemeteries must be avoided by all ground-disturbing project-related activities (e.g., demolition, construction, grading, dredging, and/or filling, tree clearance, vehicle or equipment staging, materials stockpiling, temporary land use, etc.), and provisions of relevant state statutes regarding cemeteries (including IC 14-21-1 and IC 23-14) must be adhered to.

In terms of archaeological resources, as previously indicated, thank you for the submission of the archaeological report detailing the results of the reconnaissance survey of the proposed project (Trader/Kovacs/Laswell, 11/11/2021). A review of the report indicates that four archaeological sites (12RU208, 12RU209, 12RU233, and 12SH337) were reinvestigated and twelve sites (12RU803 through 805, and 12SH719 through 727) were newly recorded as a result of the survey.

According to the reconnaissance report, previously recorded sites 12RU208 (a prehistoric camp) and 12SH337 (the Liberty Township District Number 2 School) were reidentified in the field. 12SH337 is currently listed on the National Register for its above-ground components (see above), but the archaeological aspect of the site was previously determined not eligible (Crider 2004). We understand the current survey failed to identify any additional archaeological information that would change the previous eligibility assessment of these sites. Therefore, we concur with the recommendation that these sites are not eligible for inclusion in the NRHP. We also understand that construction activities have been altered in order to avoid 12SH337/the Liberty Township District Number 2 School.

We recognize that no evidence of 12RU209 or 233 was identified during the reconnaissance. Additionally, we note that due to its proximity to the proposed project, an effort to identify 12SH345 within the project corridor was made but no evidence of the site was identified.

In terms of newly identified archaeological sites 12RU803 through 805 and 12SH719 through 727, we concur with the recommendations that the portions of these sites within the current project boundaries do not appear to be eligible for inclusion in the NRHP and no further archaeological investigation is necessary.

For all archaeological sites investigated during this project, it is possible that portions of the sites extend outside of the current project limits. Additional reconnaissance may be needed if the project scope changes to include areas outside of the current survey limits.

Accordingly, we concur with INDOT's October 4, 2022, Section 106 finding of "No Adverse Effect" regarding the Liberty Township District Number 2 School (NR-1034), the Saint Vincent DePaul Historic District (IHSSI #145-657-35011, 145-657-35012, 145-657-35013, and 145-657-35014), and the Mahan Farmstead (IHSSI 139-003-50022) on behalf of FHWA for this federal undertaking.

Furthermore, since there will be no adverse impact to the Liberty Township District Number 2 School (NR-1034), we have determined, pursuant to 312 IAC 20-4-11.5(f), that with a finding of "No Adverse Effect" under 36 C.F.R. 800, a certificate of approval from the Review Board is not necessary. Accordingly, this letter serves as a director's letter of clearance.

Pursuant to 312 IAC 20-4-11(g), within fifteen (15) days after this determination, an interested person may request a member of the Review Board to provide public hearing and review under 312 IAC 2-3. The designated member shall issue a determination whether an application for a certificate of approval must be filed. If the designated member determines that an application must be filed, then the division shall place the completed application on the agenda of the Review Board's next meeting. If the designated member determines that an application for a certificate of approval is not required, then the division director's letter of clearance is affirmed. A determination under this subsection is not affected until the later of the following:

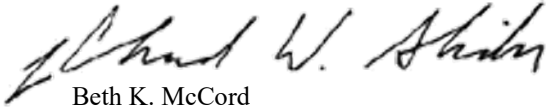
- (1) fifteen (15) days after issuance of the determination; or
- (2) the day resulting from a notice given under 312 IAC 2-3-7(d).

If any prehistoric or historic archaeological artifacts or human remains are uncovered during construction, demolition, or earthmoving activities, state law (Indiana Code 14-21-1-27 and -29) requires that the discovery be reported to the Indiana SHPO within two (2) business days. In that event, please call (317) 232-1646. Be advised that adherence to Indiana Code 14-21-1-27 and -29 does not obviate the need to adhere to applicable federal statutes and regulations, including but not limited to 36 C.F.R. Part 800.

The Indiana SHPO staff's archaeological reviewer for this project is Wade T. Tharp, and the structures reviewer is Toni Lynn Giffin. Questions about National Register eligibility should contact Paul Diebold. However, if you have a question about the Section 106 process, please contact initially the INDOT Cultural Resources staff members who are assigned to this project.

In all future correspondence about the SR 244 road rehabilitation project in Rush and Shelby counties (Des. No. 1600801), please refer to DHPA No. 26215.

Very truly yours,



Beth K. McCord
Deputy State Historic Preservation Officer

BKM:TLG:WTT:wtt

EMC to federal and state agency or consultant staff members:

Kari Carmany-George, FHWA
Matt Coon, INDOT
Kelyn Alexander, INDOT
Susan Branigin, INDOT
Jeff Laswell, Gray & Pape Heritage Management
Toni Lynn Giffin, Indiana DNR-DHPA
Wade T. Tharp, Indiana DNR-DHPA

EMC to Indiana Historic Preservation Review Board Members:

J. Scott Keller, Review Board
Daniel Kloc, AIA, Review Board
Jason Larrison, AIA, Review Board
Chandler Lighty, Review Board
Beth K. McCord, Indiana DNR-DHPA, Review Board
Ryan Mueller, Deputy Director, Indiana DNR, and Chairman, Review Board
Anne Shaw, Review Board
April Sievert, Ph.D., Review Board

EMC to potentially interested persons:

Delaware Tribe of Indians, Oklahoma
Eastern Shawnee Tribe of Oklahoma
Miami Tribe of Oklahoma
Peoria Tribe of Indians of Oklahoma
Pokagon Band of Potawatomi Indians
Shawnee Tribe

Indiana Landmarks, Central Regional Office
Indiana Landmarks, Eastern Regional Office
Indianapolis Metropolitan Planning Organization
Rush County Commissioners
Rush County Council
Rush County Heritage, Inc.
Rush County Highway Department
Rush County Historian
Rush County Historical Society
Shelby County Council
Shelby County Commissioners
Shelby County Highway Department
Shelby County Historical Society
Shelby County Public Library

Appendix E

Red Flag and Hazardous Materials

Item	Appendix Page
Red Flag Investigation	E-1 to E-30



INDIANA DEPARTMENT OF TRANSPORTATION

100 North Senate Avenue
Room N758-ES
Indianapolis, Indiana 46204

PHONE: (317) 694-8283

Eric Holcomb, Governor
Joe McGuinness, Commissioner

Date: June 2, 2021

To: Site Assessment & Management (SAM)
Environmental Policy Office - Environmental Services Division (ESD)
Indiana Department of Transportation
100 N Senate Avenue, Room N642
Indianapolis, IN 46204

From: Mackenzie Knotts
CHA Consulting, Inc.
300 S. Meridian Street
Indianapolis, IN 46225
mknotts@chacompanies.com

Re: RED FLAG INVESTIGATION
DES # 1600801, State Project
Road Rehabilitation Project
State Road (SR) 244, 0.32 mile W of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
Shelby and Rush Counties, Indiana

PROJECT DESCRIPTION

Brief Description of Project: The Indiana Department of Transportation (INDOT) is proposing to proceed with a road rehabilitation project on SR 244 from 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of I-74 at Deer Creek in Liberty Township, Shelby County, and Orange Township, Rush County, Indiana. The project involves an HMA overlay from Michigan street to I-74. The existing pavement for the remainder of the project area will be milled and resurfaced in some locations with full depth replacement in other locations. The roadway will be widened throughout the project area with the installation of new paved shoulders. The roadway will also be slightly re-aligned in some areas and a curve correction will be completed near CR 750 East. These modifications will require new ditches to be constructed throughout the project area. The excavation for the road widening, curve correction, and ditch work is expected to extend to a depth of approximately 19 feet. Three small structures will also be replaced within the project area. CV 244-073-1.12 will be upgraded to a 4-foot by 4-foot Reinforced Concrete Box with 2-foot cover. CV 244-073-1.51, which is a 78-inches by 48-inches Corrugated Metal Pipe (CMP) will be replaced in-kind. CV 244-073-3.22, which is a 4-foot by 4-foot Reinforced Concrete Box with 1-foot cover, will be replaced in-kind. The excavation for the structure replacements is expected to be approximately four feet. Three bridges, 244-73-05843 C, 244-70-08039, and 244-73-04184 C, are within the project area but will not be impacted. Temporary and permanent right-of-way (ROW) will be required for the project, the amount of temporary ROW is unknown at the time of this report, 40 acres of permanent ROW will be required.

Bridge and/or Culvert Project: Yes No Structure # CV 244-073-1.12, CV 244-073-1.51, and CV 244-073-3.22

If this is a bridge project, is the bridge Historical? Yes No , Select Non-Select

(Note: If the project involves a historical bridge, please include the bridge information in the Recommendations Section of the report).

Proposed right of way: Temporary # Acres unknown Permanent # Acres 40 , Not Applicable

Type and proposed depth of excavation: Excavation will occur for the replacement of the small structures, road widening, ditch work, and a curve correction. Excavation is expected to extend to a depth of four feet for the small structure

replacements. Excavation will extend to a depth of approximately 19-feet for the road widening, ditch work, and curve correction.

Maintenance of traffic: Full road closure of SR 244 with detour. The road closure will occur in 1 mile segments to maintain traffic in areas while other areas are under construction. Local traffic will be maintained throughout construction.

Work in waterway: Yes No Below ordinary high water mark: Yes No

State Project: LPA:

Any other factors influencing recommendations: N/A

INFRASTRUCTURE TABLE AND SUMMARY

Infrastructure			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Religious Facilities	1*	Recreational Facilities	N/A
Airports ¹	N/A	Pipelines	N/A
Cemeteries	2	Railroads	N/A
Hospitals	N/A	Trails	1
Schools	N/A	Managed Lands	2

¹In order to complete the required airport review, a review of public-use airports within 3.8 miles (20,000 feet) is required.

Explanation:

Religious Facilities:*

One (1) religious facility is located within the 0.5 mile search radius. St. Vincent Catholic Church is located adjacent the project area on the southeast corner of SR 244 and Michigan Road. Coordination with St. Vincent Catholic Church will occur.

Cemeteries:

Two (2) cemeteries are located within the 0.5 mile search radius. Rockwell Cemetery and St. Vincent Catholic Cemetery are both located adjacent to the project area. The Rockwell cemetery is located on the north side of SR 244 at the intersection of SR 244 and S 750 E. The St. Vincent Catholic Cemetery is located 0.14 mile east of the SR 244 and Michigan Road intersection. A Cemetery Development Plan may be required since this project is within 100 feet of both cemeteries. Coordination with INDOT Cultural Resources will occur.

Trails:

One (1) trail segment is located within the 0.5 mile search radius. The nearest trail, Meltzer Woods Trail (park/forest trail), is located 0.29 mile north of the project area. No impact is expected.

Managed Lands:

Two (2) managed lands are located within the 0.5 mile search radius. The nearest managed land, Meltzer Woods Nature Preserve is located 0.22 mile north of the project area. No impact is expected.

WATER RESOURCES TABLE AND SUMMARY

Water Resources			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
NWI - Points	N/A	Canal Routes - Historic	N/A
Karst Springs	N/A	NWI - Wetlands	27
Canal Structures – Historic	N/A	Lakes	1
NPS NRI Listed	N/A	Floodplain - DFIRM	2
NWI-Lines	23	Cave Entrance Density	N/A
IDEM 303d Listed Streams and Lakes (Impaired)	1	Sinkhole Areas	N/A
Rivers and Streams	12	Sinking-Stream Basins	N/A

Explanation:

NWI-Lines:

Twenty-three (23) NWI-lines are located within the 0.5 mile search radius. Four (4) NWI-lines are located within the project area. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

IDEM 303d Listed Streams and Lakes (Impaired):

One (1) IDEM 303d Listed Streams and Lakes (Impaired) is located within the 0.5 mile search radius. Conns Creek is located within the project area, 0.17 mile west of S 750 E and is listed as impaired for E. coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.

Rivers and Streams:

Twelve (12) rivers and streams are located within the 0.5 mile search radius. Four (4) rivers and streams are located within the project area. Two Unnamed Tributaries (UNTs) to Conns Creek are located 0.76 mile and 1.13 mile east of I-74 through CV 244-073-1.12 and CV 244-073-1.51. Conns Creek is located through the center of the project area, 0.17 mile west of S 750 E. Little Conns Creek is located in the eastern portion of the project area, approximately 0.61 mile east of CR S 800 E, and carried under SR 244 by Structure No. 244-70-08039. A Waters of the US report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

NWI-Wetlands:

Twenty-seven (27) wetlands are located within the 0.5 mile search radius. Four (4) wetlands are located within the project area. Two (2) wetlands are located adjacent to SR 244 project at Conns Creek and two (2) wetlands are located 0.12 mile and 0.18 mile east of Conns Creek. A Waters of the US Report will be prepared and coordination with INDOT ESD Ecology and Waterway Permitting will occur.

Lakes:

One (1) lake is located within the 0.5 mile search radius. The lake is located 0.44 mile north of the project area. No impact is expected.

Floodplain-DFIRM:

Two (2) floodplain polygons are located within the 0.5 mile search radius. The project area is located within one of the floodplain polygons associated with Conns Creek, 0.06 mile west of S 750 E. Coordination with INDOT ESD Ecology and Waterway Permitting will occur.

MINING AND MINERAL EXPLORATION TABLE AND SUMMARY

Mining/Mineral Exploration			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Petroleum Wells	43	Mineral Resources	N/A
Mines – Surface	N/A	Mines – Underground	N/A

Explanation:

Petroleum Wells:

Forty-three (43) petroleum wells are located within the 0.5 mile search radius. Thirteen petroleum wells are located within or adjacent to the project area. Coordination with IDNR Oil and Gas Division will occur.

HAZARDOUS MATERIAL CONCERNS TABLE AND SUMMARY

Hazardous Material Concerns			
Indicate the number of items of concern found within the 0.5 mile search radius. If there are no items, please indicate N/A:			
Superfund	N/A	Manufactured Gas Plant Sites	N/A
RCRA Generator/ TSD	N/A	Open Dump Waste Sites	N/A
RCRA Corrective Action Sites	N/A	Restricted Waste Sites	N/A
State Cleanup Sites	N/A	Waste Transfer Stations	N/A
Septage Waste Sites	N/A	Tire Waste Sites	N/A
Underground Storage Tank (UST) Sites	3	Confined Feeding Operations (CFO)	1
Voluntary Remediation Program	N/A	Brownfields	N/A
Construction Demolition Waste	N/A	Institutional Controls	N/A
Solid Waste Landfill	N/A	NPDES Facilities	N/A
Infectious/Medical Waste Sites	N/A	NPDES Pipe Locations	N/A
Leaking Underground Storage (LUST) Sites	N/A	Notice of Contamination Sites	N/A

Unless otherwise noted, site specific details presented in this section were obtained from documents reviewed on the Indiana Department of Environmental Management (IDEM) Virtual File Cabinet (VFC).

Explanation:

Underground Storage Tank (UST) Sites:

Three (3) UST sites are located within the 0.5 mile radius search.

- Stuckey 234 (I-74 & SR 244; AI: 51871) is located adjacent to the project area on the northwest corner of I-74 and SR 244. According to the November 22, 1991 UST Closure Report, five USTs were removed from the site in October 1991. Low levels of petroleum chemicals of concern (CoCs) were identified; however, closure sampling or delineation was not fully completed. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.
- I-74 & 244 Service (AI: 51639) is located adjacent to the project area, on the southeast corner of I-74 and SR 244, and appears to be associated with a former fueling station that is now a small landscaping business. IDEM conducted an UST Inspection on July 13, 1999 and it was noted that there were no signs of tanks. According to the October 22, 1997 IDEM UST inspection report five USTs were reportedly removed in July or August 1997. No other investigations have been done on the property. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Before proper removal and disposal of soil and/or ground water, analysis for lead will be necessary.
- Mahin Grain (I-74 & SR 244; AI: 51870) is mapped on the northeast corner of I-74 and SR 244, but is actually located 0.12 mile north of the project area. According to the May 9, 1990 Notification for Underground Storage Tanks, three storage tanks were removed from the ground in April 1990. No impact is expected.

Confined Feeding Operations (CFO):

Todd McDaniel (9700 W SR 244; AI: 120359) is located within the project area 3.64 miles east of I-74 and SR 244. IDEM conducted a Construction Check inspection on February 19, 2019. The inspection noted that there was no evidence of recent construction activities, and there are no animal confinement barns located at the facility address. No impact is expected.

ECOLOGICAL INFORMATION SUMMARY

The Shelby and Rush County listing of the Indiana Natural Heritage Data Center information on endangered, threatened, or rare (ETR) species and high quality natural communities is attached with ETR species highlighted. A preliminary review of the Indiana Natural Heritage Database by INDOT ESD did indicate the presence of ETR species within the 0.5 mile search radius. Coordination with USFWS and IDNR will occur.

A review of the USFWS database did not indicate the presence of endangered bat species in or within 0.5 mile of the project area. The project area is located in a rural area surrounded by agricultural land use and residential housing. The August 24, 2020, inspection report for Culvert CV 244-073-1.12 states that no evidence of bats was seen or heard in the culvert. The July 26, 2017, inspection report for Culvert CV 244-073-1.51 contains no information about whether bats are present or absent in the culvert. Additional investigation to confirm the presence or absence of bats in the culvert will be necessary. The July 24, 2017, inspection report for Culvert CV 244-073-3.22 contains no information about whether bats are present or absent in the culvert. Additional investigation to confirm the presence or absence of bats in the culvert will be necessary. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFW's IPaC System for Listed Bat Consultation for INDOT Projects".

RECOMMENDATIONS SECTION

Include recommendations from each section. If there are no recommendations, please indicate N/A:

INFRASTRUCTURE:

Religious Facilities*: St. Vincent Catholic Church is located adjacent to the project area on the southeast corner of SR 244 and Michigan Road. Coordination with St. Vincent Catholic Church will occur.

Cemeteries: Two cemeteries are located within the 0.5 mile search radius. Rockwell Cemetery and St. Vincent Catholic Cemetery are both located adjacent to the project area. The Rockwell cemetery is located on the north side of SR 244 at the intersection of SR 244 and S 750 E. The St. Vincent Catholic Cemetery is located 0.14 mile east of the SR 244 and Michigan Road intersection. A Cemetery Development Plan may be required since this project is within 100 feet of both cemeteries. Coordination with INDOT Cultural Resources will occur.

WATER RESOURCES:

The presence of the following water resources will require the preparation of a Waters of the US Report and coordination with INDOT ESD Ecology and Waterway Permitting:

- Four (4) NWI-lines are located within the project area.
- Four (4) rivers and streams are located within the project area.
 - Two UNTs to Conns Creek are located 0.76 mile and 1.13 mile east of I-74 through CV 244-073-1.12 and CV 244-073-1.51.
 - Conns Creek is located through the center of the project area, 0.17 mile west of S 750 E.
 - Little Conns Creek is located in the eastern portion of the project area, and approximately 0.61 mile east of CR S 800 E and is carried under SR 244 by Structure No. 244-70-08039.
- Four (4) wetlands are located within the project area.
 - Two (2) wetlands are within the project area along Conns Creek.
 - Two (2) wetlands are located 0.12 mile and 0.18 mile east of Conns Creek.
- The project area is located within a floodplain (coordination only).

IDEM 303d Listed Streams and Lakes (Impaired):

One (1) IDEM 303d Listed Streams and Lakes (Impaired) is located within the 0.5 mile search radius. Conns Creek is located within the project area, 0.17 mile west of S 750 E and is listed as impaired for E. coli. Workers who are working in or near water with E. coli should take care to wear appropriate PPE, observe proper hygiene procedures, including regular hand washing, and limit personal exposure.

MINING/MINERAL EXPLORATION: Thirteen petroleum wells are located within or adjacent to the project area. Coordination with IDNR Oil and Gas Division will occur.

HAZARDOUS MATERIAL CONCERNS:

Two (2) UST Sites of concern were located within the project area.

- Stuckey 234 (I-74 & SR 244; AI: 51871) is located adjacent to the project area on the northwest corner of I-74 and SR 244. According to the November 22, 1991 UST Closure Report, five USTs were removed from the site in October 1991. Low levels of petroleum chemicals of concern (CoCs) were identified; however, closure sampling or delineation was not fully completed. If excavation occurs in this area, proper handling, removal, and disposal of soil and/or groundwater will be necessary.

- I-74 & 244 Service (AI: 51639) is located adjacent to the project area, on the southeast corner of I-74 and SR 244, and appears to be associated with a former fueling station that is now a small landscaping business. IDEM conducted an UST Inspection on July 13, 1999 and it was noted that there were no signs of tanks. According to the October 22, 1997 IDEM UST inspection report five USTs were reportedly removed in July or August 1997. No other investigations have been done on the property. If excavation occurs in this area, it is likely that petroleum contamination will be encountered. Before proper removal and disposal of soil and/or ground water, analysis for lead will be necessary.

ECOLOGICAL INFORMATION: Coordination with USFWS and IDNR will occur. The range-wide programmatic consultation for the Indiana Bat and Northern Long-eared Bat will be completed according to the most recent "Using the USFWS's IPaC System for Listed Bat Consultation for INDOT Projects". Additional investigation for CV 244-073-1.51 and CV 244-073-3.22 to confirm the presence or absence of bats in the culvert will be necessary.

Nicole Fohey Breting

Digitally signed by
Nicole Fohey-Breting
Date: 2021.06.02
10:15:42 -04'00'

INDOT ESD concurrence: _____ (Signature)

Prepared by:

Mackenzie Knotts
Mackenzie Knotts
Environmental Scientist
CHA Consulting, Inc.

Graphics:

A map for each report section with a 0.5 mile search radius buffer around all project area(s) showing all items identified as possible items of concern is attached. If there is not a section map included, please change the YES to N/A:

SITE LOCATION: YES

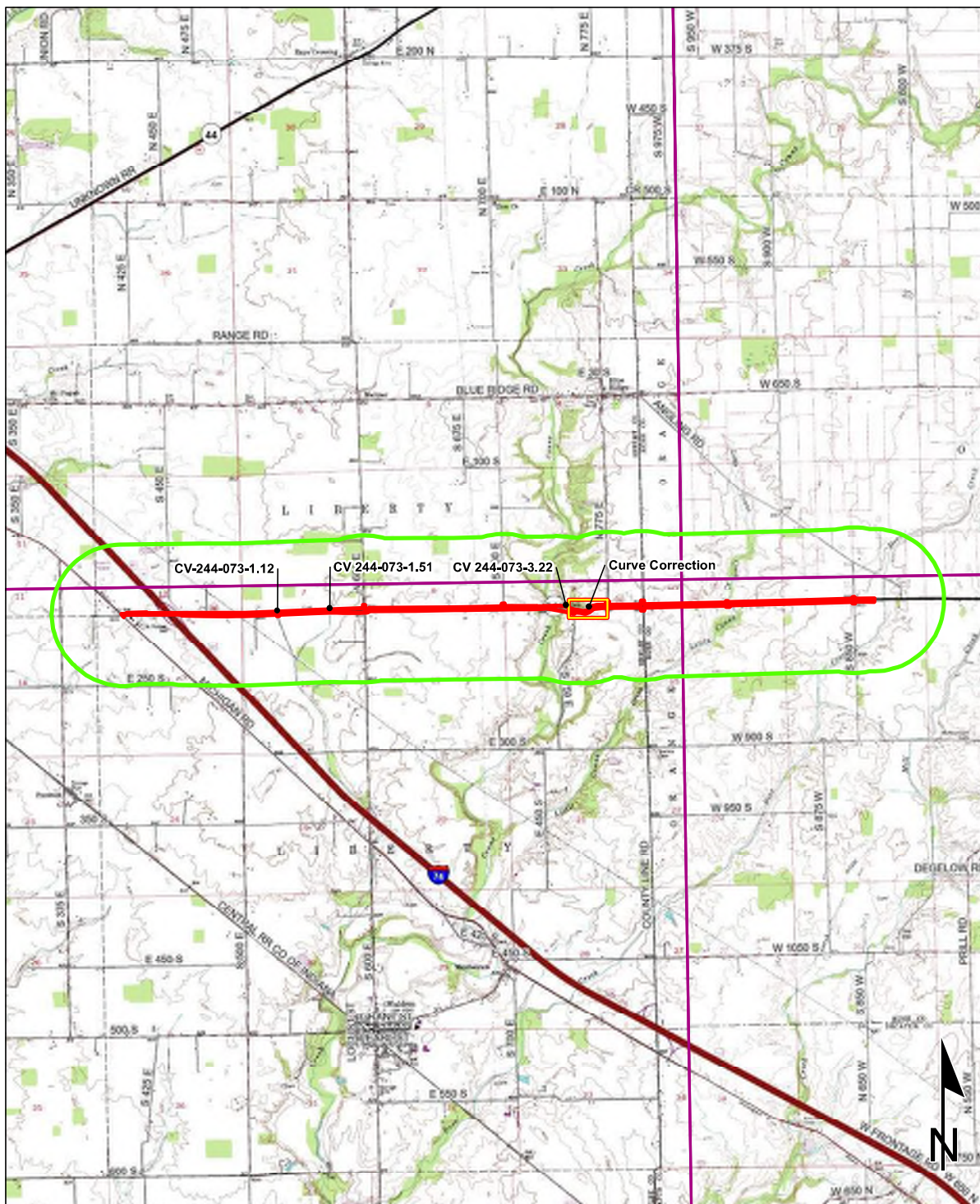
INFRASTRUCTURE: YES


WATER RESOURCES: YES

MINING/MINERAL EXPLORATION: YES

HAZARDOUS MATERIAL CONCERNS: YES

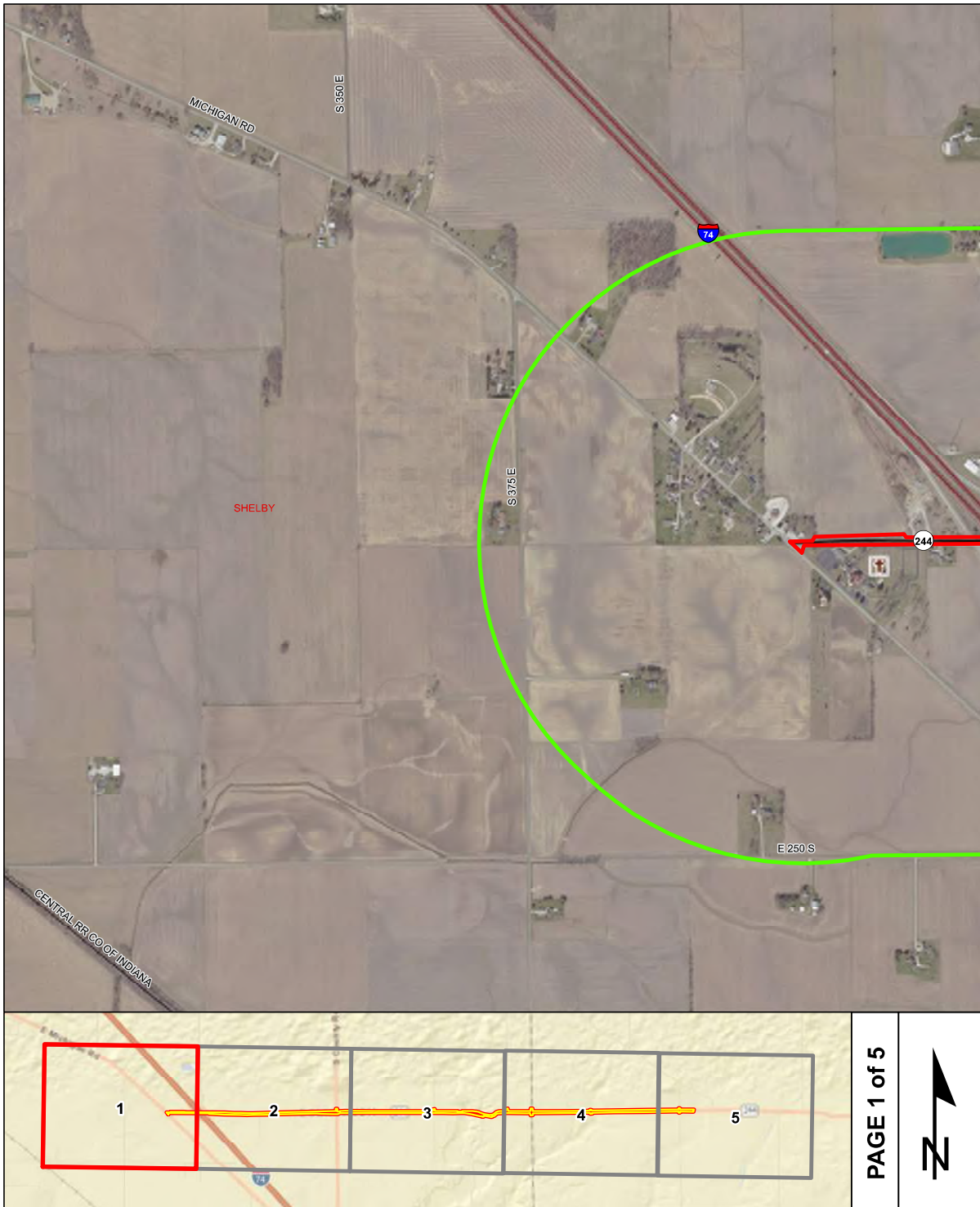
Red Flag Investigation - Site Location
 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
 Des. No. 1600801, Road Rehabilitation Project
 Shelby and Rush Counties, Indiana



Sources:  Miles
Non Orthophotography Data - Obtained from the State of Indiana Geographical Information Office Library
Orthophotography - Obtained from Indiana Map Framework Data (www.indianamap.org)
Map Projection: UTM Zone 16 N **Map Datum:** NAD83
 This map is intended to serve as an aid in graphic representation only. This information is not warranted for accuracy or other purposes.

WALDRON and ADAMS
 QUADRANGLE
 INDIANA
 7.5 MINUTE SERIES (TOPOGRAPHIC)

Red Flag Investigation - Infrastructure
 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
 Des. No. 1600801, Road Rehabilitation Project
 Shelby and Rush Counties, Indiana

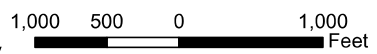


PAGE 1 of 5



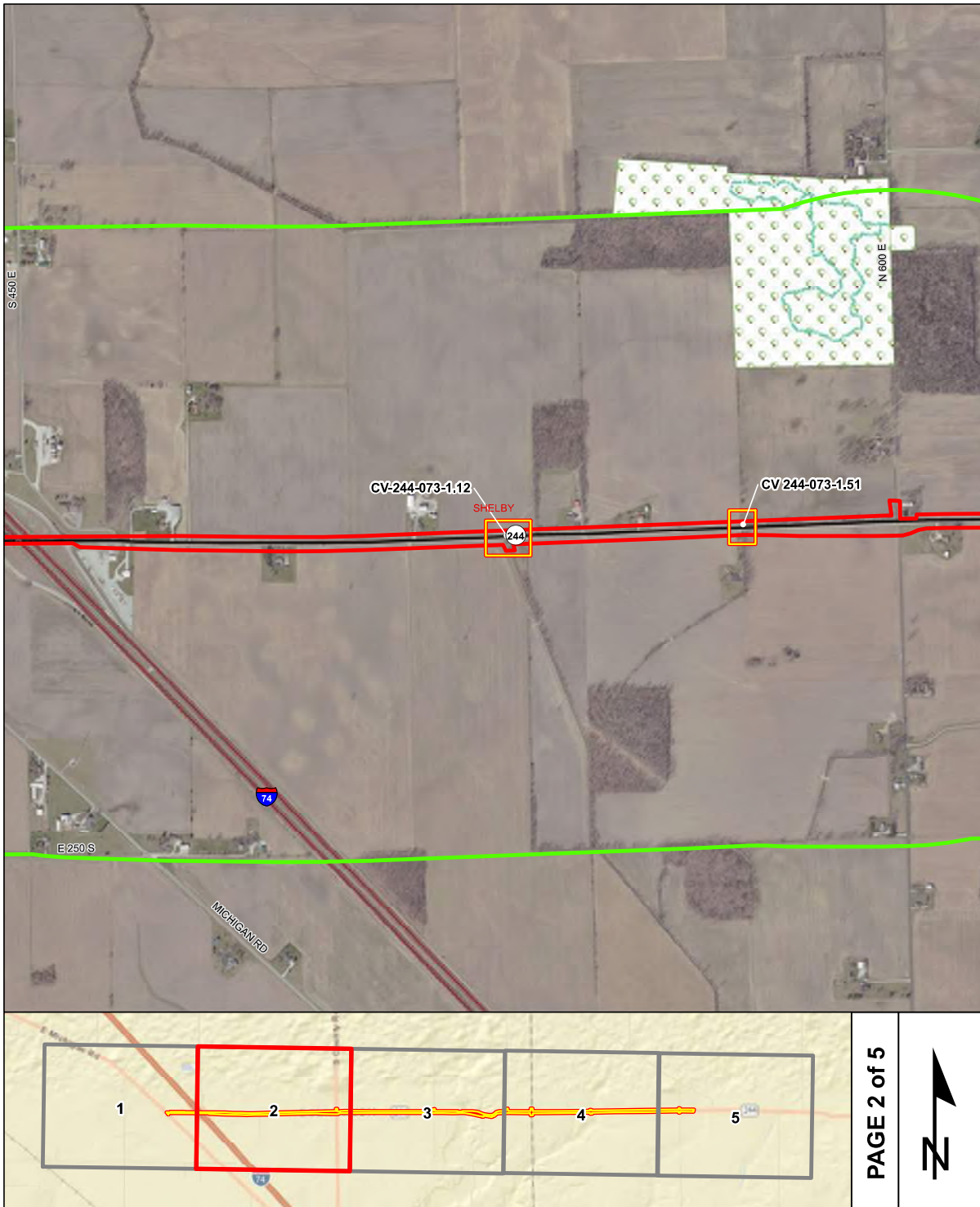
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	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Infrastructure
 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
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 Shelby and Rush Counties, Indiana



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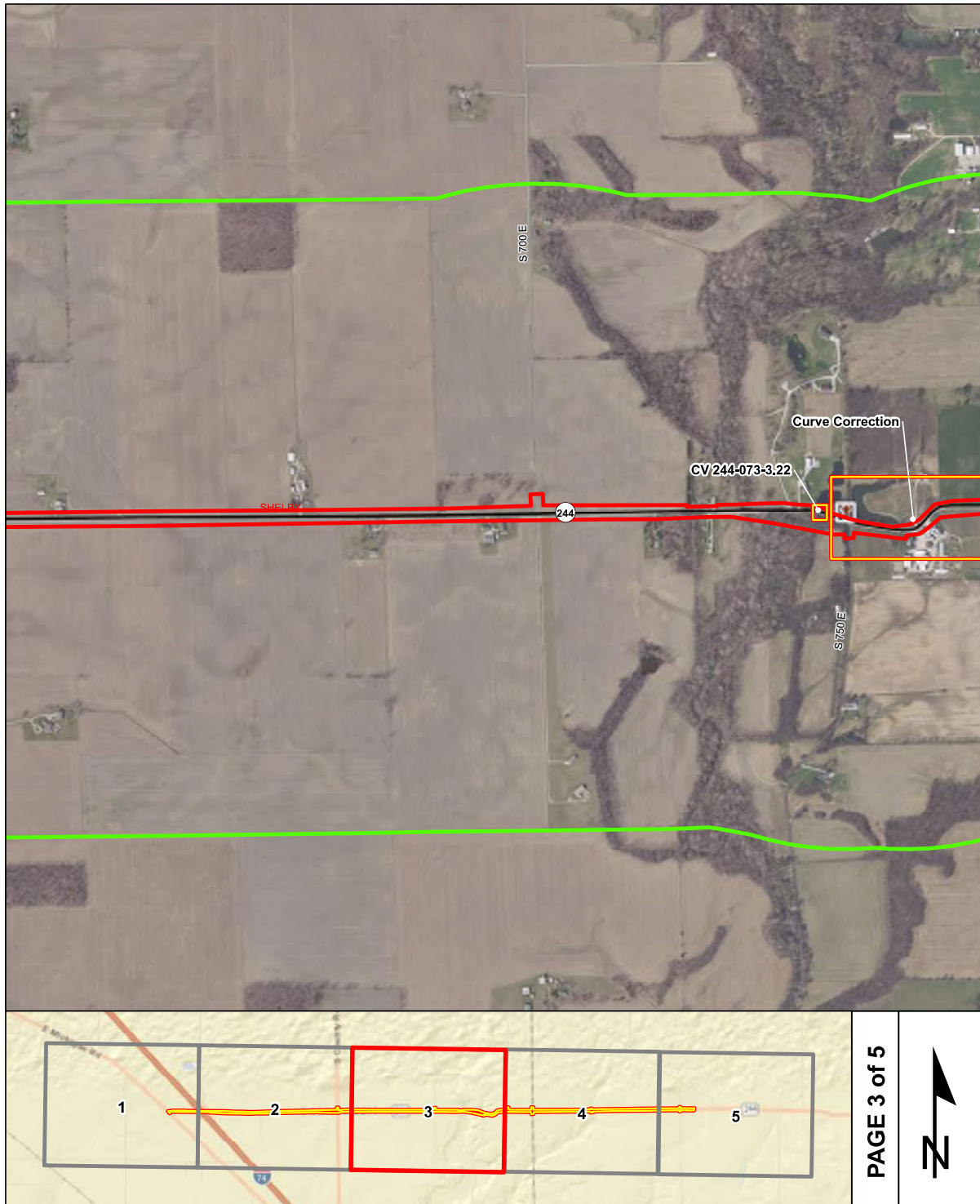
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	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

PAGE 2 of 5

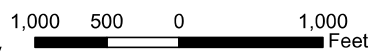


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 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
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 Shelby and Rush Counties, Indiana



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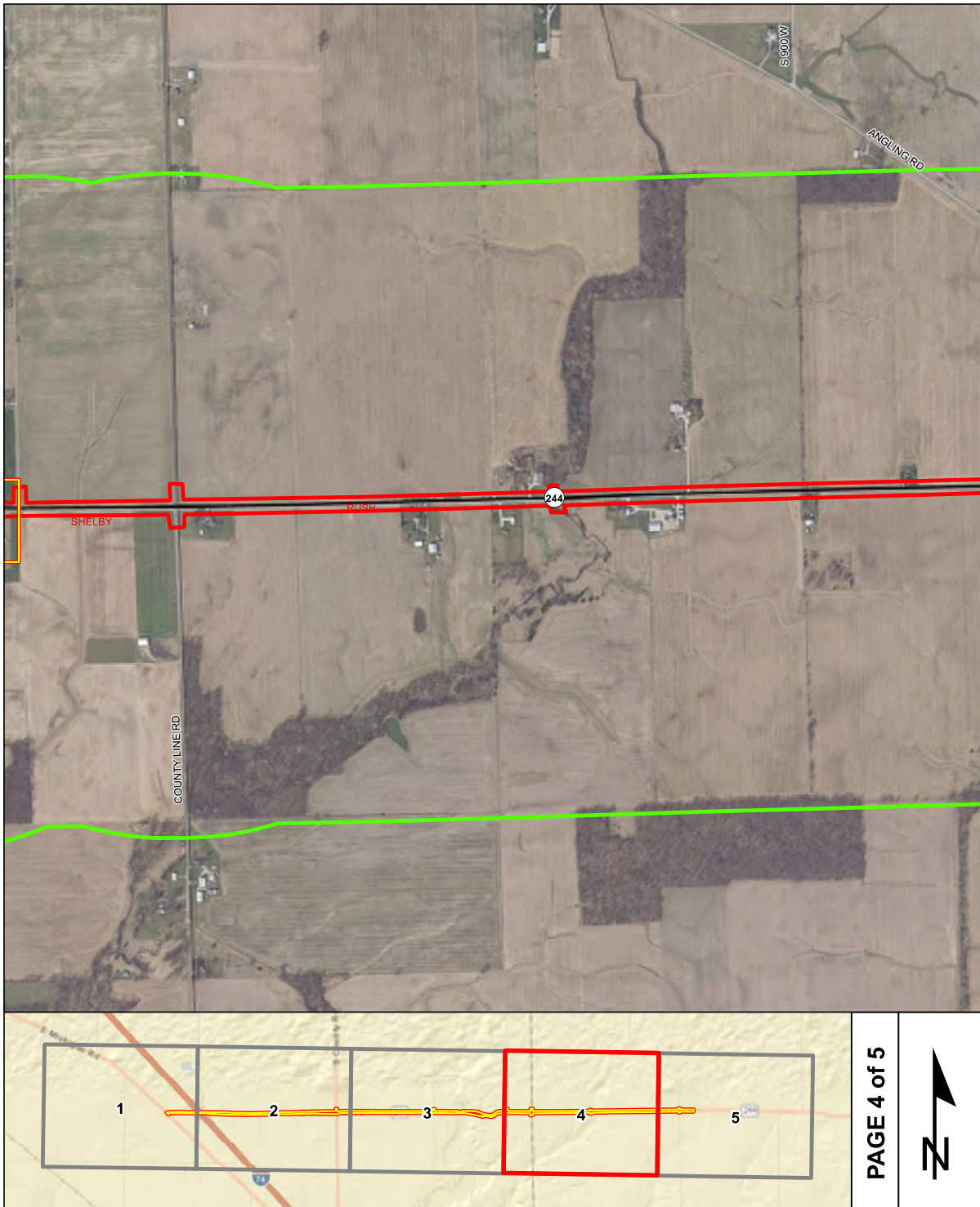


	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

PAGE 3 of 5



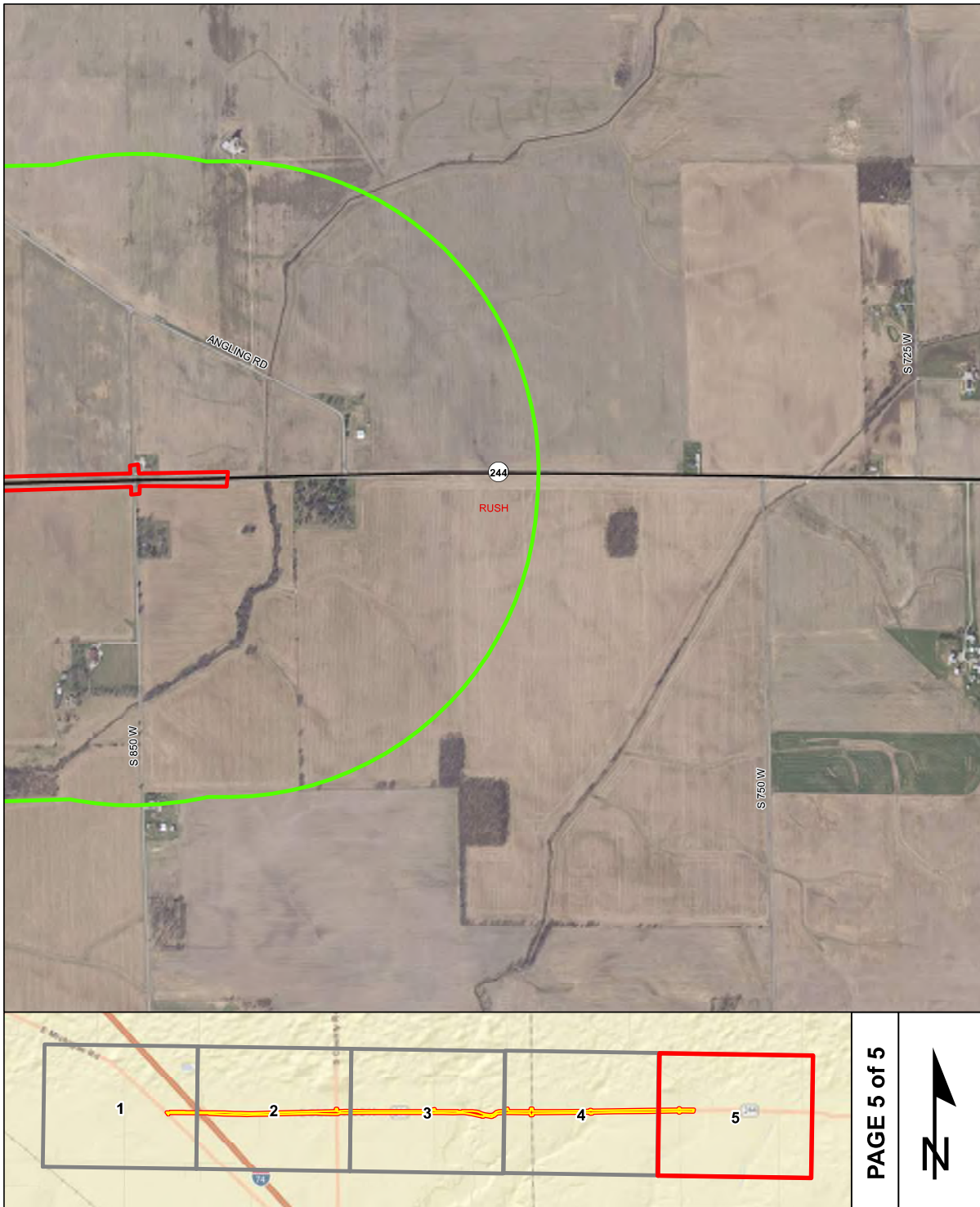
Red Flag Investigation - Infrastructure
 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
 Des. No. 1600801, Road Rehabilitation Project
 Shelby and Rush Counties, Indiana



Sources: 1,000 500 0 1,000 Feet
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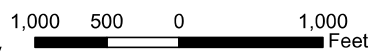
	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

Red Flag Investigation - Infrastructure
 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
 Des. No. 1600801, Road Rehabilitation Project
 Shelby and Rush Counties, Indiana



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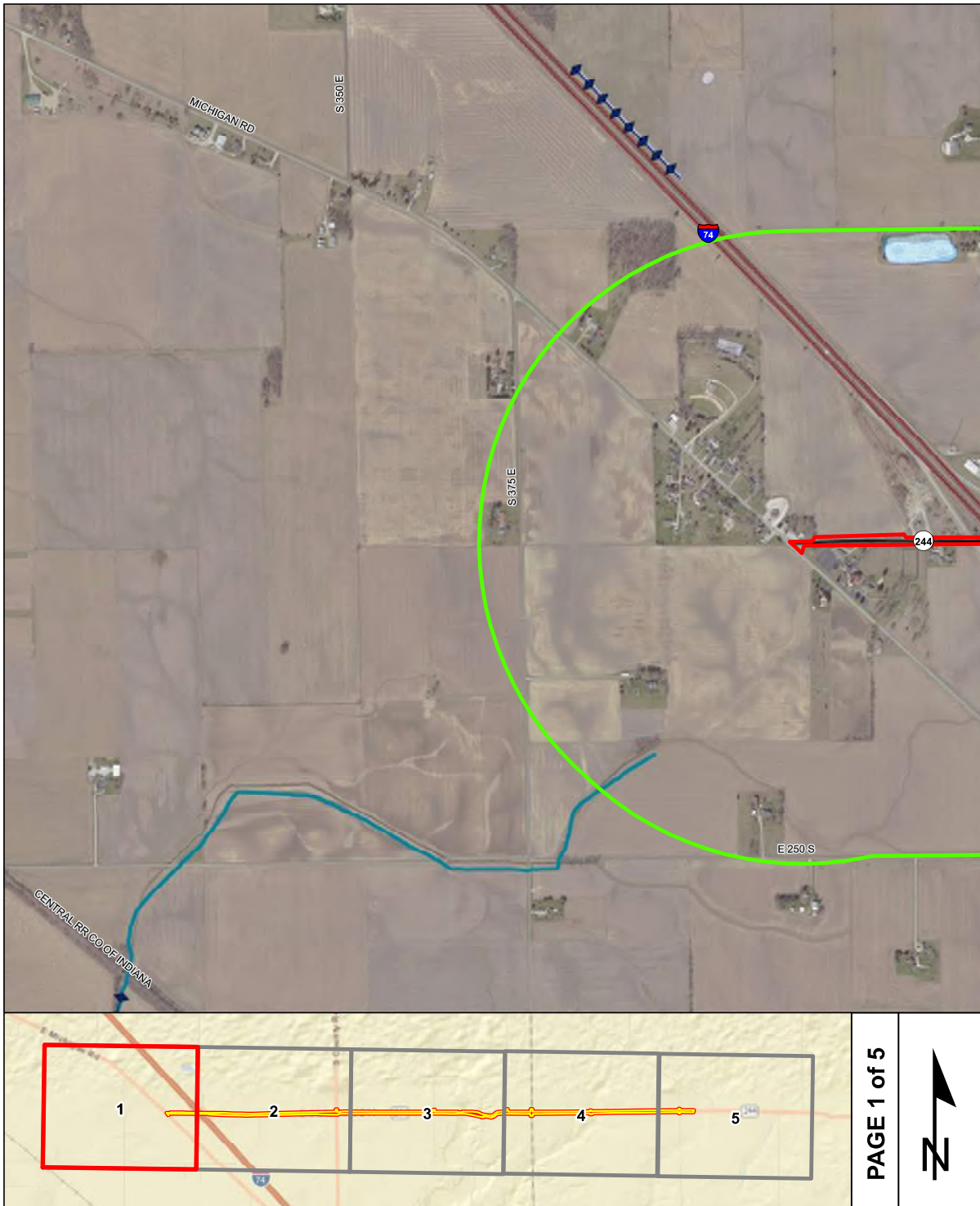


	Religious Facility		Recreation Facility		Project Area
	Airport		Pipeline		Half Mile Radius
	Cemeteries		Railroad		Toll
	Hospital		Trails		Interstate
	School		Managed Lands		State Route
			County Boundary		US Route
					Local Road

PAGE 5 of 5



Red Flag Investigation - Water Resources
 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
 Des. No. 1600801, Road Rehabilitation Project
 Shelby and Rush Counties, Indiana



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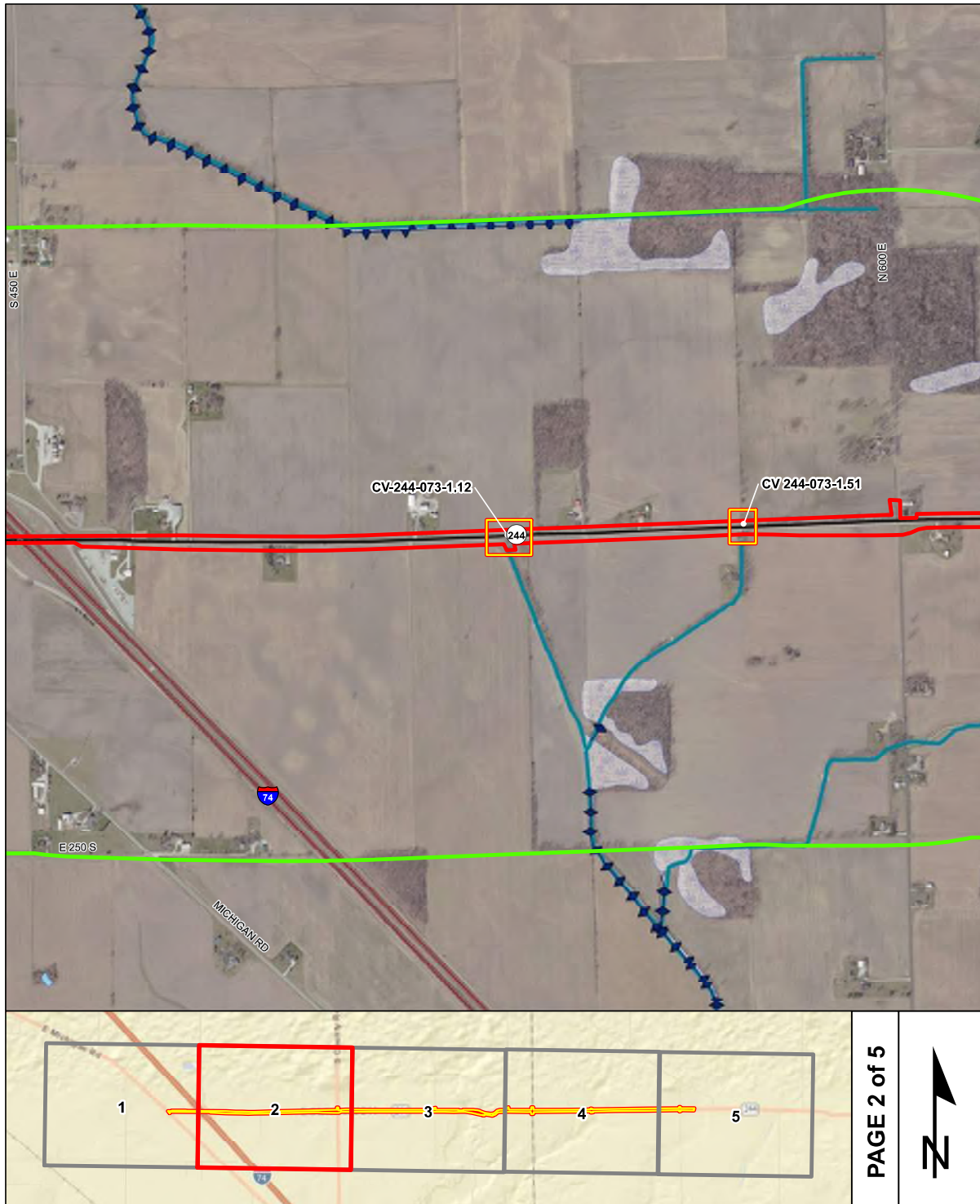
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	NWI - Point		Wetlands		Project Area
	Karst Spring		Lake		Half Mile Radius
	NWI - Line		Floodplain - DFIRM		Toll
	Impaired_Stream_Lake		Cave Entrance Density		Interstate
	NPS NRI Listed		Sinkhole Area		State Route
	River		Sinking-Stream Basin		US Route
	Canal Structure - Historic		County Boundary		Local Road
	Canal Route - Historic				

PAGE 1 of 5



Red Flag Investigation - Water Resources
 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
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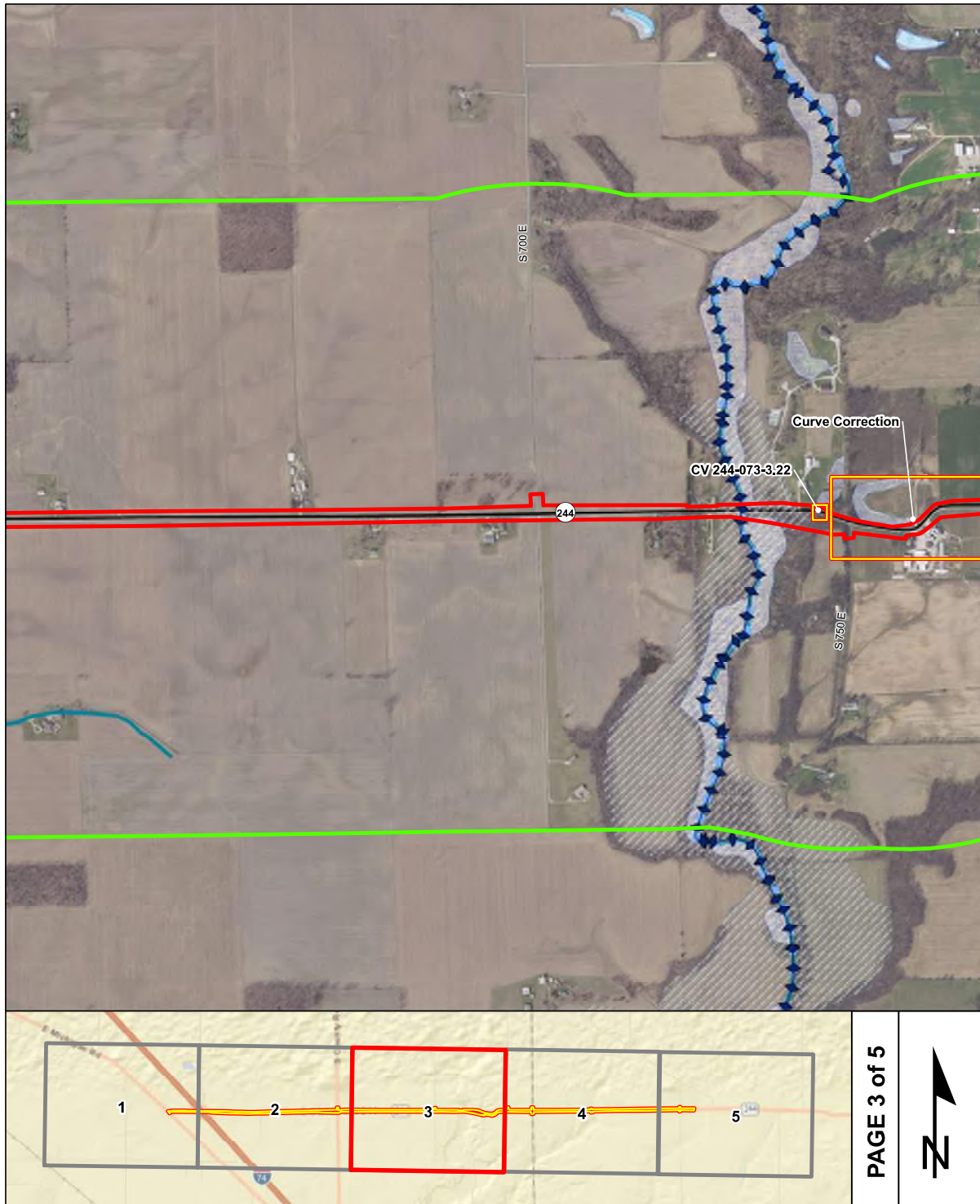
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NWI - Point	Wetlands	Project Area
Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
Impaired_Stream_Lake	Cave Entrance Density	Interstate
NPS NRI listed	Sinkhole Area	State Route
River	Sinking-Stream Basin	US Route
Canal Structure - Historic	County Boundary	Local Road
Canal Route - Historic		

Red Flag Investigation - Water Resources
 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
 Des. No. 1600801, Road Rehabilitation Project
 Shelby and Rush Counties, Indiana

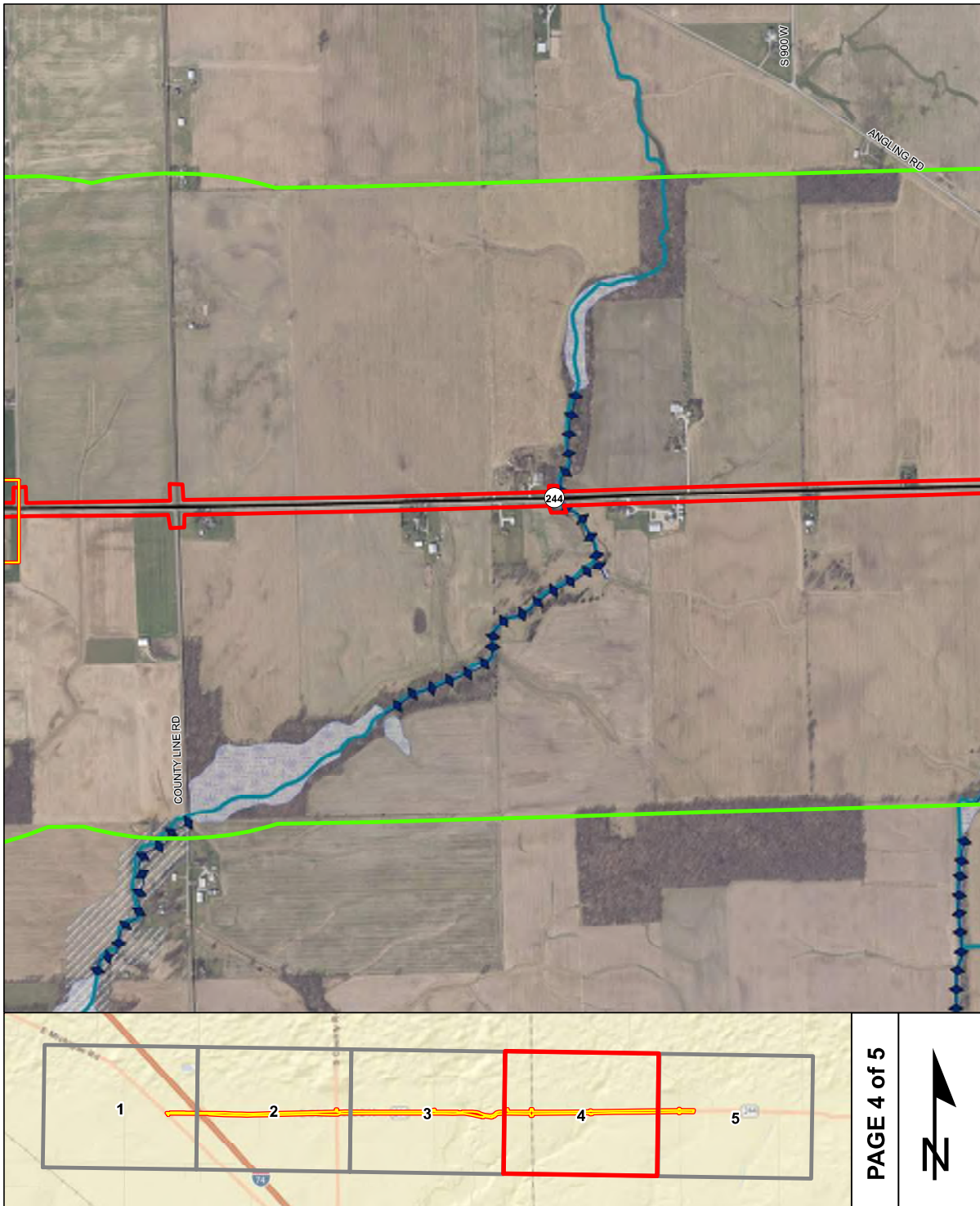


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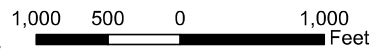
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	Karst Spring		Lake		Half Mile Radius
	NWI- Line		Floodplain - DFIRM		Toll
	Impaired_Stream_Lake		Cave Entrance Density		Interstate
	NPS NRI Listed		Sinkhole Area		State Route
	River		Sinking-Stream Basin		US Route
	Canal Structure - Historic		County Boundary		Local Road
	Canal Route - Historic				

Red Flag Investigation - Water Resources
 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
 Des. No. 1600801, Road Rehabilitation Project
 Shelby and Rush Counties, Indiana



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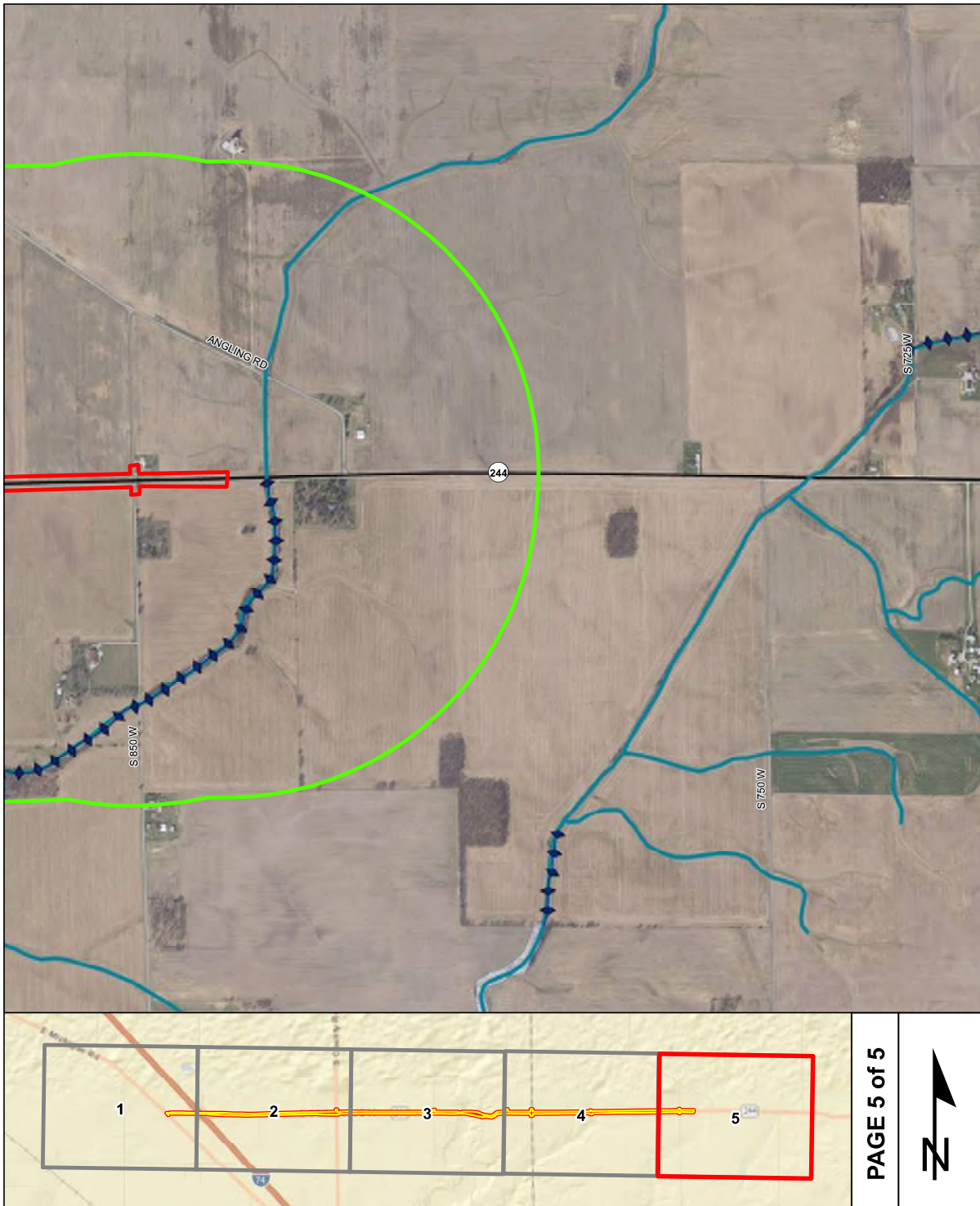


	NWI - Point		Wetlands		Project Area
	Karst Spring		Lake		Half Mile Radius
	NWI - Line		Floodplain - DFIRM		Toll
	Impaired_Stream_Lake		Cave Entrance Density		Interstate
	NPS NRI Listed		Sinkhole Area		State Route
	River		Sinking-Stream Basin		US Route
	Canal Structure - Historic		County Boundary		Local Road
	Canal Route - Historic				

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Red Flag Investigation - Water Resources
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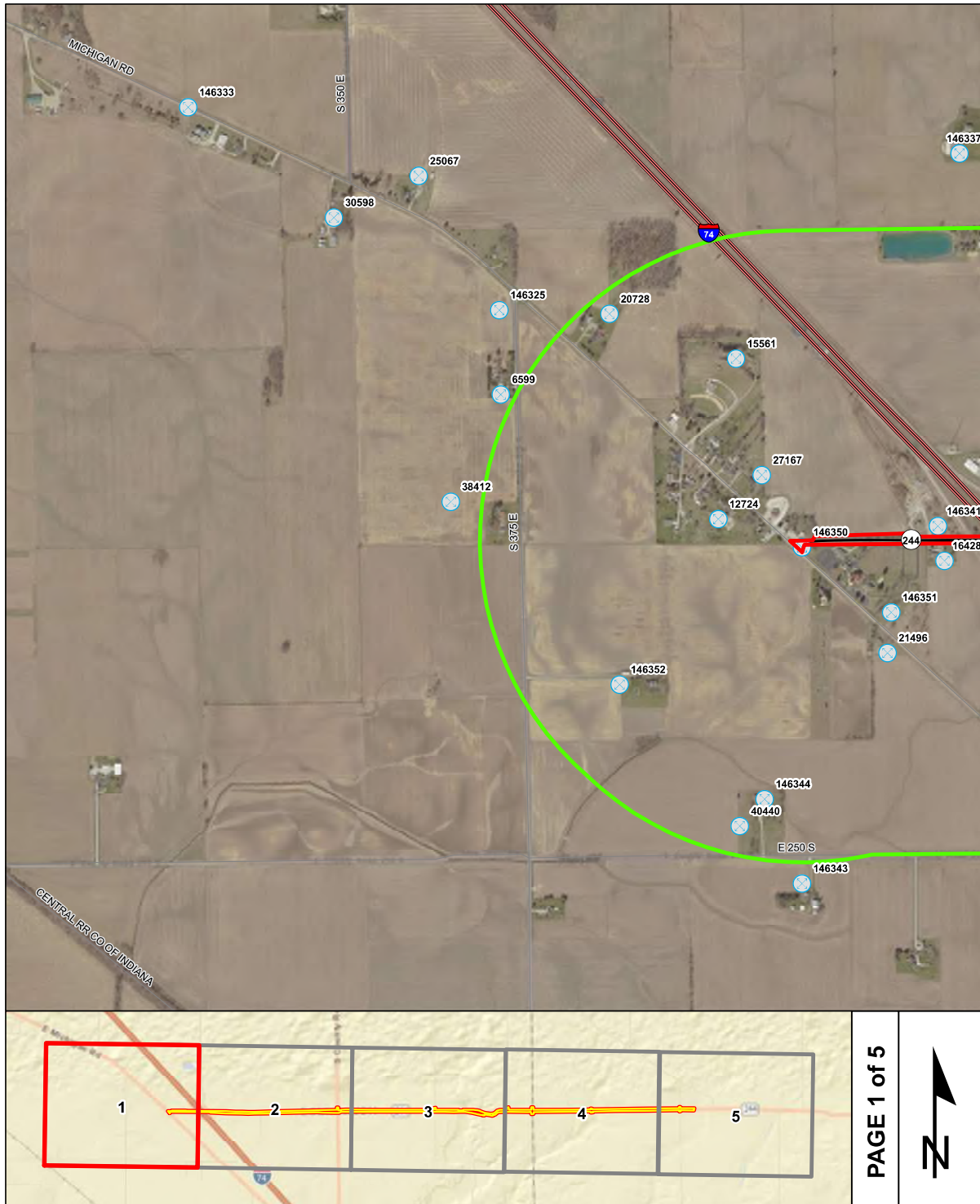
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Karst Spring	Lake	Half Mile Radius
NWI - Line	Floodplain - DFIRM	Toll
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NPS NRI listed	Sinkhole Area	State Route
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Canal Structure - Historic	County Boundary	Local Road
Canal Route - Historic		

PAGE 5 of 5



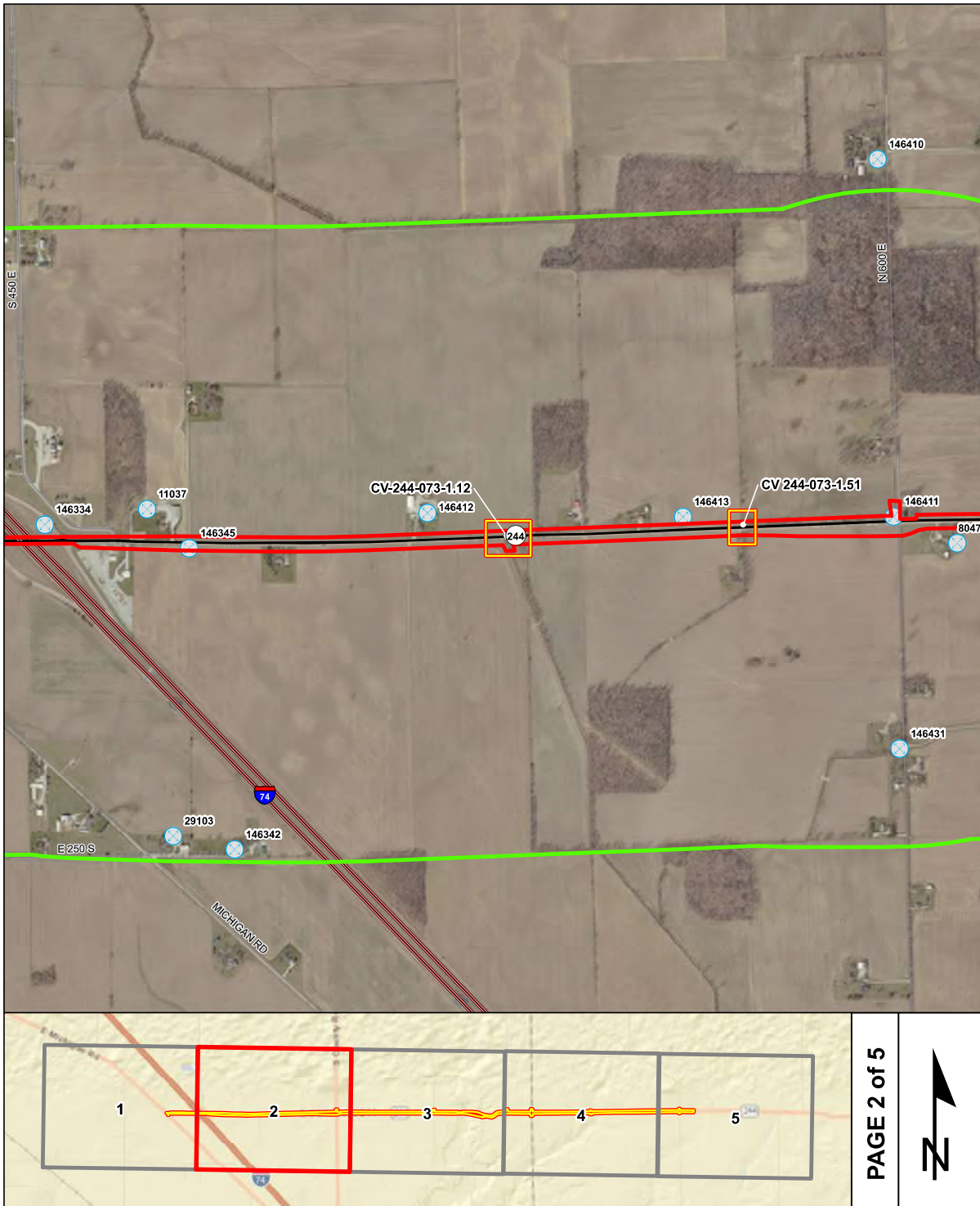
Red Flag Investigation - Mining/Mineral Exploration
 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
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Oil and Gas Wells	County Boundary	Toll
Mineral Resources	Project Area	Interstate
Mine - Surface	Half Mile Radius	State Route
Mine - Underground		US Route
		Local Road

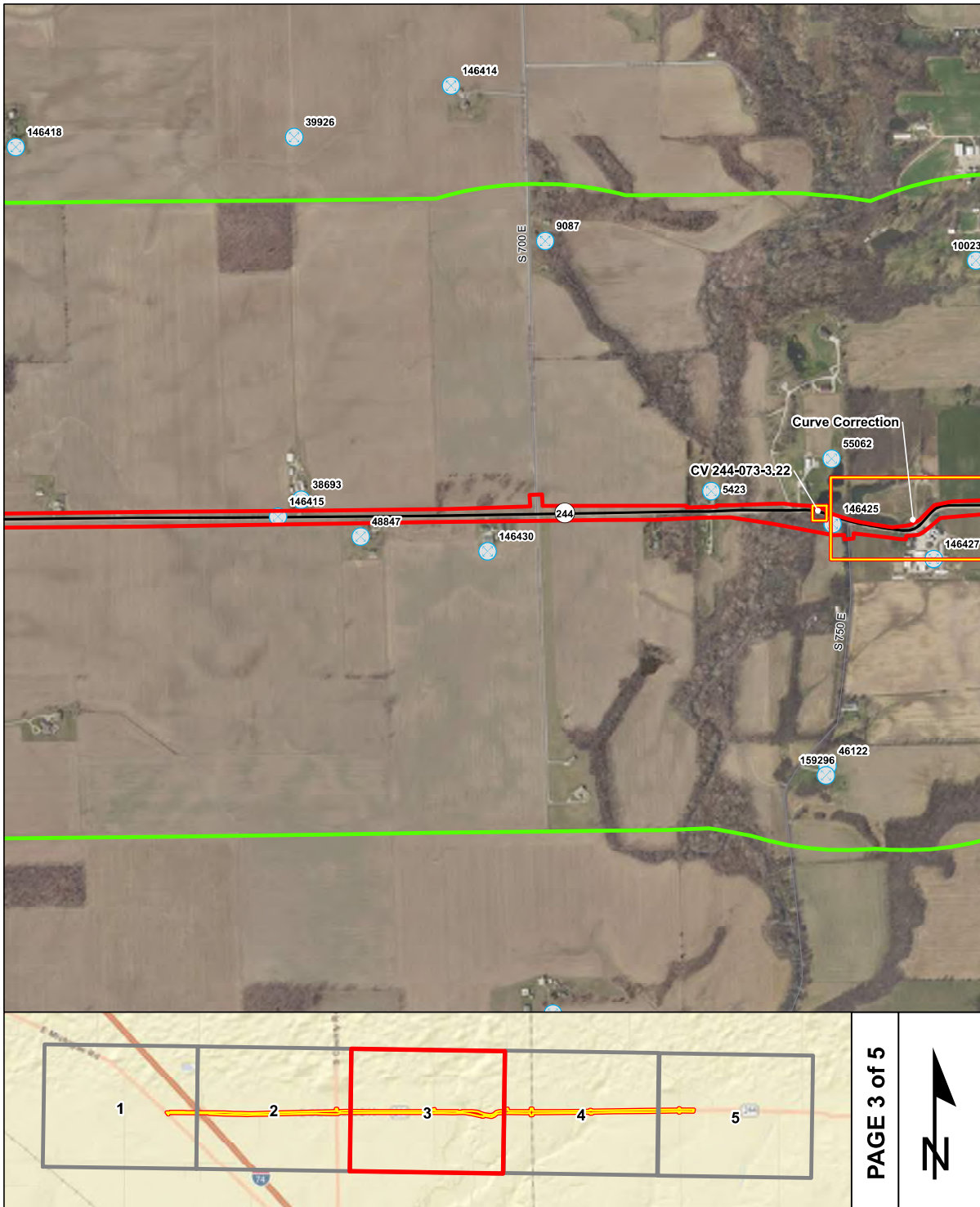
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Oil and Gas Wells	Project Area	Toll
Mineral Resources	Half Mile Radius	Interstate
Mine - Surface		State Route
Mine - Underground		US Route
		Local Road
		County Boundary

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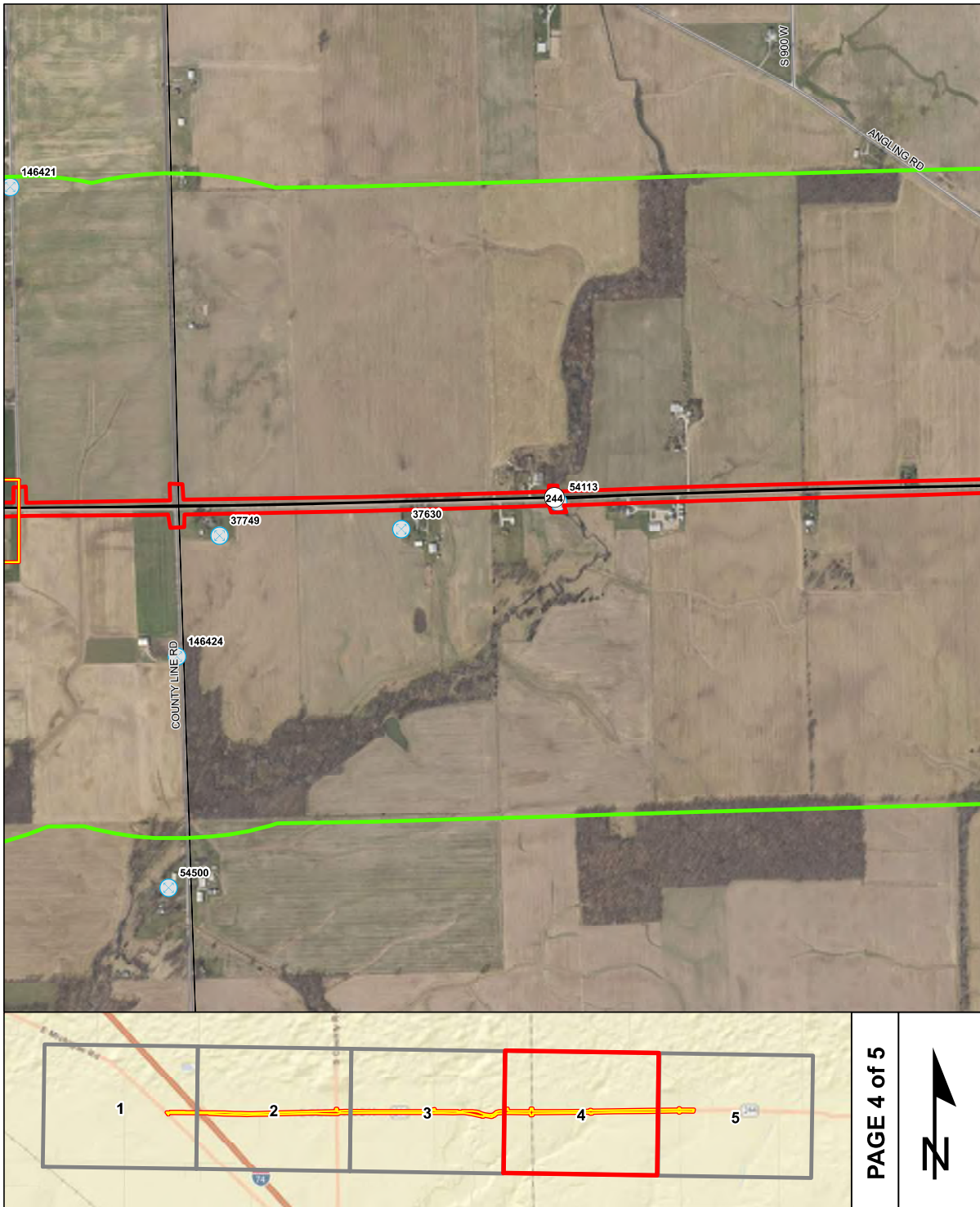


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Oil and Gas Wells	County Boundary	Toll
Mineral Resources	Project Area	Interstate
Mine - Surface	Half Mile Radius	State Route
Mine - Underground		US Route
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Red Flag Investigation - Mining/Mineral Exploration
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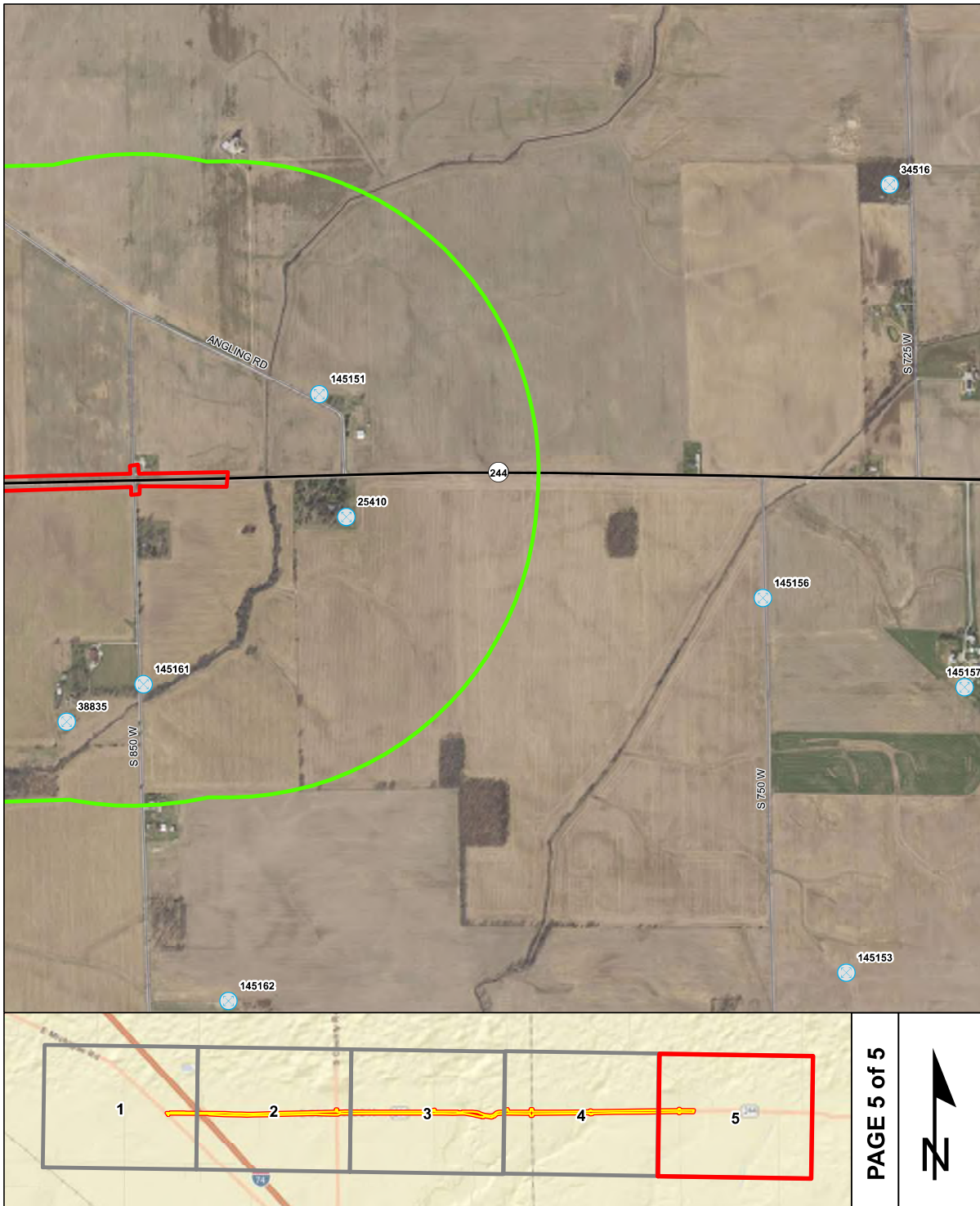
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- | | | |
|--------------------|------------------|-------------|
| Oil and Gas Wells | County Boundary | Toll |
| Mineral Resources | Project Area | Interstate |
| Mine - Surface | Half Mile Radius | State Route |
| Mine - Underground | | US Route |
| | | Local Road |

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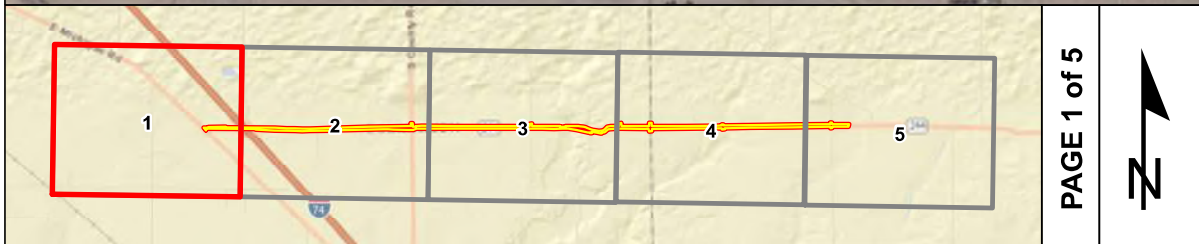
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Oil and Gas Wells	County Boundary	Toll
Mineral Resources	Project Area	Interstate
Mine - Surface	Half Mile Radius	State Route
Mine - Underground		US Route
		Local Road

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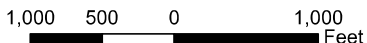
Red Flag Investigation - Hazardous Material Concerns
 SR 244, 0.32 mile west of I-74 at the intersection of Michigan Road to 0.06 mile west of Deer Creek
 Des. No. 1600801, Road Rehabilitation Project
 Shelby and Rush Counties, Indiana



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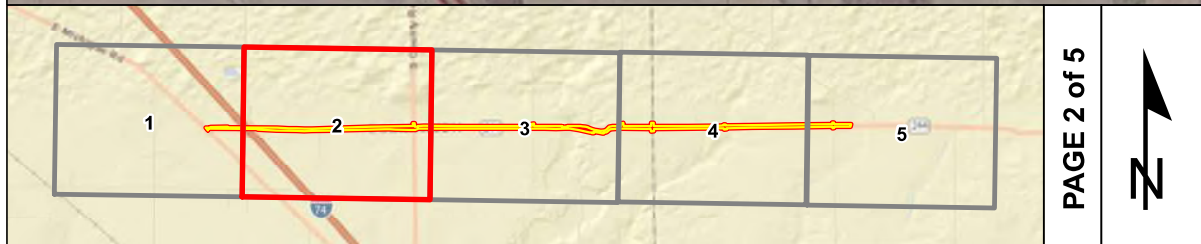
Brownfield	RCRA Generator/TSD	Institutional Controls
RCRA Corrective Action Sites	Restricted Waste Site	County Boundary
Confined Feeding Operation Notice_Of_Contamination	Septage Waste Site	Project Area
Construction/Demolition Site	Solid Waste Landfill	Half Mile Radius
Infectious/Medical Waste Site	State Cleanup Site	Toll
Leaking Underground Storage Tank	Superfund	Interstate
Manufactured Gas Plant	Tire Waste Site	State Route
NPDES Facilities	Underground Storage Tank	US Route
NPDES Pipe Locations	Voluntary Remediation Program	Local Road
Open Dump Waste Site	Waste Transfer Station	



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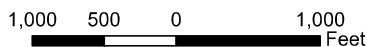
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 Shelby and Rush Counties, Indiana



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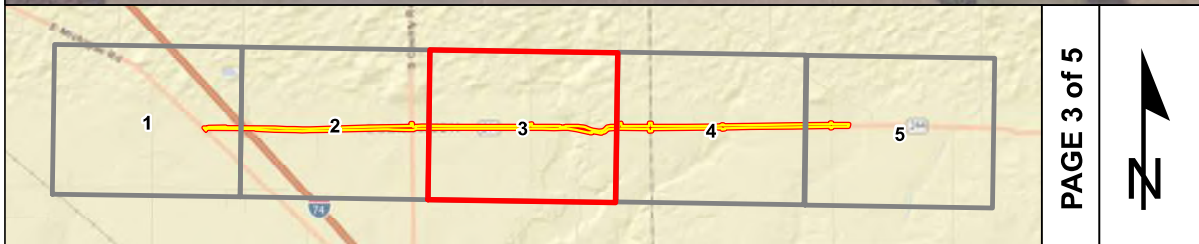
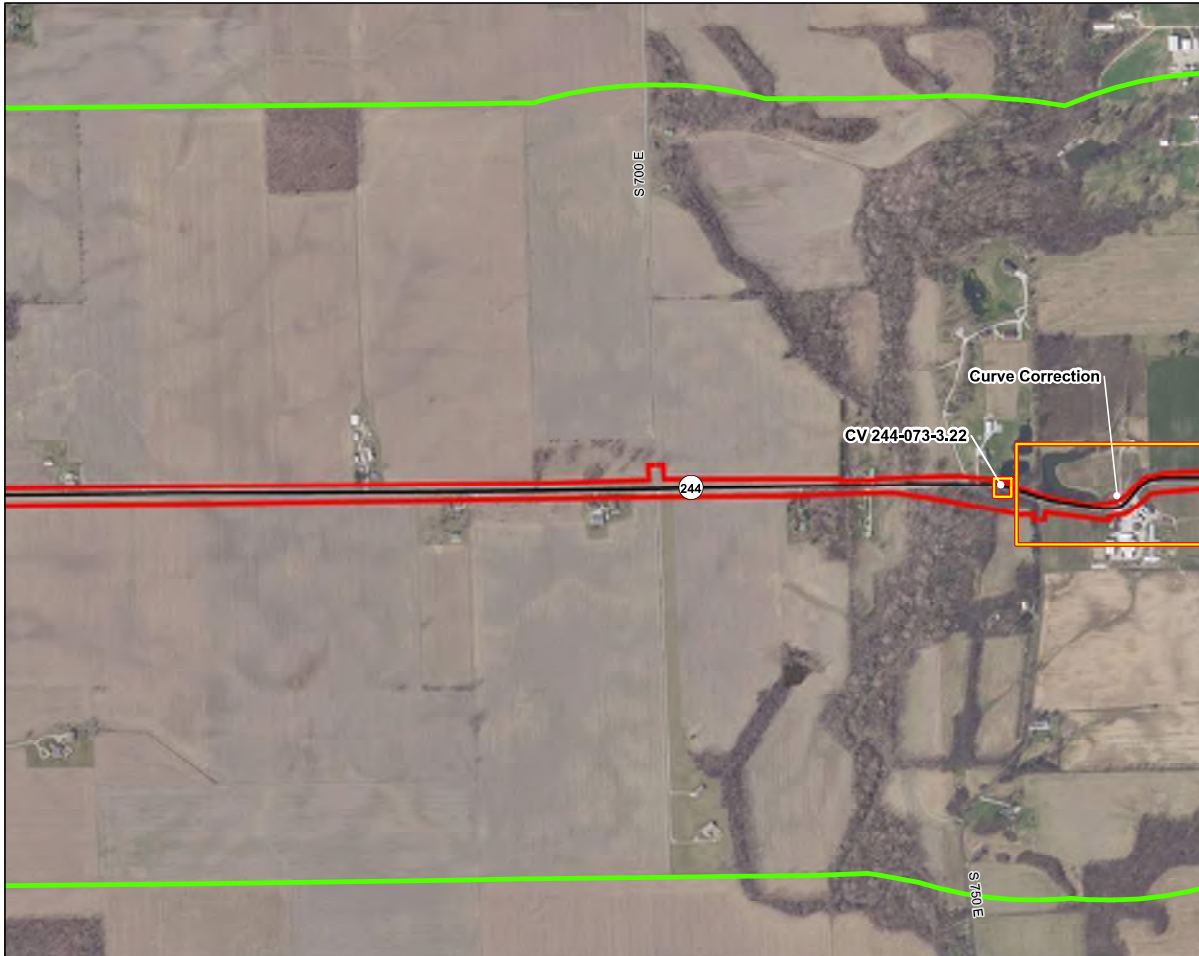
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Confined Feeding Operation Notice_of_Contamination	Septage Waste Site	Project Area
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Open Dump Waste Site	Waste Transfer Station	



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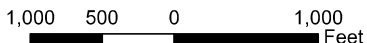
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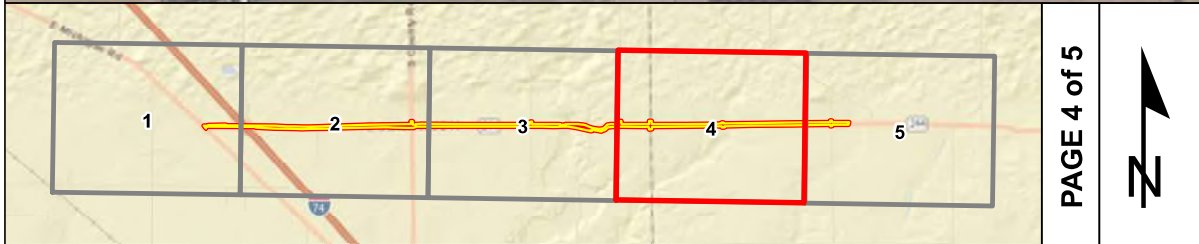
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Open Dump Waste Site	Waste Transfer Station	



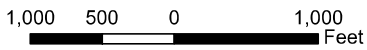
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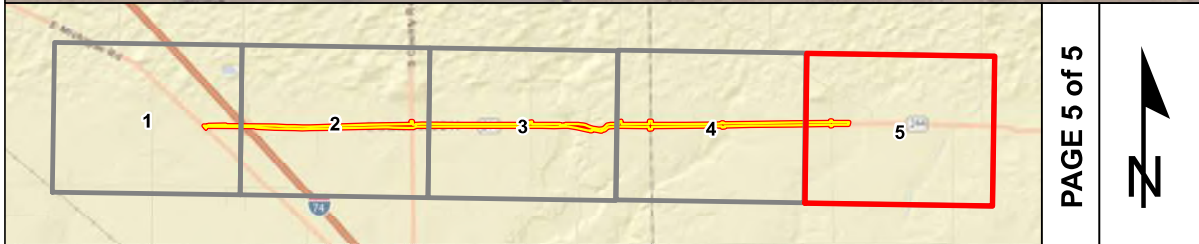
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	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation Notice_Of_Contamination		Septage Waste Site		Project Area
	Construction/Demolition Site		Solid Waste Landfill		Half Mile Radius
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	Manufactured Gas Plant		Tire Waste Site		State Route
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	NPDES Pipe Locations		Voluntary Remediation Program		Local Road
	Open Dump Waste Site		Waste Transfer Station		



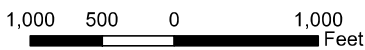
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	RCRA Corrective Action Sites		Restricted Waste Site		County Boundary
	Confined Feeding Operation Notice_of_Contamination		Septage Waste Site		Project Area
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	Infectious/Medical Waste Site		State Cleanup Site		Toll
	Leaking Underground Storage Tank		Superfund		Interstate
	Manufactured Gas Plant		Tire Waste Site		State Route
	NPDES Facilities		Underground Storage Tank		US Route
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Indiana County Endangered, Threatened and Rare Species List



County: Rush

Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
<i>Alasmidonta viridis</i>	Slippershell Mussel		SSC	G4G5	S3
<i>Lampsilis fasciola</i>	Wavyrayed Lampmussel		SSC	G5	S3
<i>Pleurobema clava</i>	Clubshell	LE	SE	G1G2	S1
<i>Ptychobranhus fasciolaris</i>	Kidneyshell		SSC	G4G5	S2
<i>Toxolasma lividus</i>	Purple Lilliput	C	SSC	G3Q	S2
<i>Villosa iris</i>	Rainbow		SSC	G5	S3
<i>Villosa lienosa</i>	Little Spectaclecase		SSC	G5	S3
Reptile					
<i>Clonophis kirtlandii</i>	Kirtland's Snake		SE	G2	S2
Bird					
<i>Haliaeetus leucocephalus</i>	Bald Eagle		SSC	G5	S2
<i>Lanius ludovicianus</i>	Loggerhead Shrike		SE	G4	S3B
<i>Tyto alba</i>	Barn Owl		SE	G5	S2
Mammal					
<i>Myotis sodalis</i>	Indiana Bat	LE	SE	G2	S1
<i>Nycticeius humeralis</i>	Evening Bat		SE	G5	S1
<i>Taxidea taxus</i>	American Badger		SSC	G5	S2
Vascular Plant					
<i>Carex cephaloidea</i>	thinleaf sedge		ST	G5	S2
<i>Crataegus coccinea var. coccinea</i>	scarlet hawthorn		ST	G5	S2
High Quality Natural Community					
<i>Forest - upland mesic Central Till Plain</i>	Central Till Plain Mesic Upland Forest		SG	GNR	S3

Indiana Natural Heritage Data Center
Division of Nature Preserves
Indiana Department of Natural Resources
This data is not the result of comprehensive county surveys.

Fed: LE = Endangered; LT = Threatened; C = candidate; PDL = proposed for delisting
State: SE = state endangered; ST = state threatened; SR = state rare; SSC = state species of special concern; SX = state extirpated; SG = state significant; WL = watch list
GRANK: Global Heritage Rank: G1 = critically imperiled globally; G2 = imperiled globally; G3 = rare or uncommon globally; G4 = widespread and abundant globally but with long-term concerns; G5 = widespread and abundant globally; G? = unranked; GX = extinct; Q = uncertain rank; T = taxonomic subunit rank
SRANK: State Heritage Rank: S1 = critically imperiled in state; S2 = imperiled in state; S3 = rare or uncommon in state; G4 = widespread and abundant in state but with long-term concern; SG = state significant; SH = historical in state; SX = state extirpated; B = breeding status; S? = unranked; SNR = unranked; SNA = nonbreeding status unranked

Indiana County Endangered, Threatened and Rare Species List



County: Shelby

Species Name	Common Name	FED	STATE	GRANK	SRANK
Mollusk: Bivalvia (Mussels)					
<i>Alasmidonta viridis</i>	Slippershell Mussel		SSC	G4G5	S3
<i>Epioblasma rangiana</i>	Northern Riffleshell	LE	SE	G1	S1
<i>Epioblasma triquetra</i>	Snuffbox	LE	SE	G3	S1
<i>Eurynia dilatata</i>	Spike		SSC	G5	S4
<i>Lampsilis fasciola</i>	Wavyrayed Lampmussel		SSC	G5	S3
<i>Obovaria subrotunda</i>	Round Hickorynut	C	SE	G4	S1
<i>Pleurobema clava</i>	Clubshell	LE	SE	G1G2	S1
<i>Ptychobranchus fasciolaris</i>	Kidneyshell		SSC	G4G5	S2
<i>Simpsonaias ambigua</i>	Salamander Mussel	C	SSC	G3	S2
<i>Theliderma cylindrica</i>	Rabbitsfoot	LT	SE	G3G4	S1
<i>Toxolasma lividus</i>	Purple Lilliput	C	SSC	G3Q	S2
<i>Villosa fabalis</i>	Rayed Bean	LE	SE	G2	S1
<i>Villosa iris</i>	Rainbow		SSC	G5	S3
<i>Villosa lienosa</i>	Little Spectaclecase		SSC	G5	S3
Insect: Odonata (Dragonflies & Damselflies)					
<i>Enallagma divagans</i>	Turquoise Bluet		SR	G5	S3
Bird					
<i>Haliaeetus leucocephalus</i>	Bald Eagle		SSC	G5	S2
Mammal					
<i>Myotis sodalis</i>	Indiana Bat	LE	SE	G2	S1
<i>Taxidea taxus</i>	American Badger		SSC	G5	S2
Vascular Plant					
<i>Crataegus coccinea</i> var. <i>coccinea</i>	scarlet hawthorn		ST	G5	S2
High Quality Natural Community					
<i>Forest - flatwoods central till plain</i>	Central Till Plain Flatwoods		SG	G3	S2
Other Significant Feature					
<i>Geomorphic - Nonglacial Erosional Feature - Water Fall and Cascade</i>	Water Fall and Cascade			GNR	SNR

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Appendix F

Water Resources

Item	Appendix Page
Waters of the U.S. Determination Report	F-1 to F-31