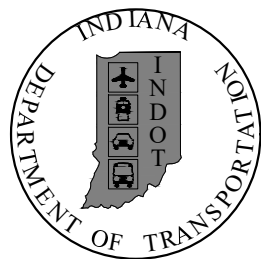


PROJECT	DESIGNATION
2003031	2003031
CONTRACT	BRIDGE FILE
R-43619	N/A

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS 281ST STREET REHABILITATION

PROJECT NO. 2003031 P.E.
PROJECT NO. 2003031 R/W
PROJECT NO. 2003031 CONST.

Rehabilitation along 281st Street, Beginning at State Rd 19 East to Rulon Rd 2 miles West of State Rd 213, in Section 12 Township 20 North, Range 4 East, Section 7 Township 20 North, Range 5 East, All in Jackson Township, Section 8, Township 20 North, Range 5 East, in White River Township, in Hamilton County, Indiana.

BEGIN PAVING EXCEPTION
STA. 125+11.50, LINE "A",
STA. 125+11.50, LINE "PR-A"

Gross Length: 2.40 MI.

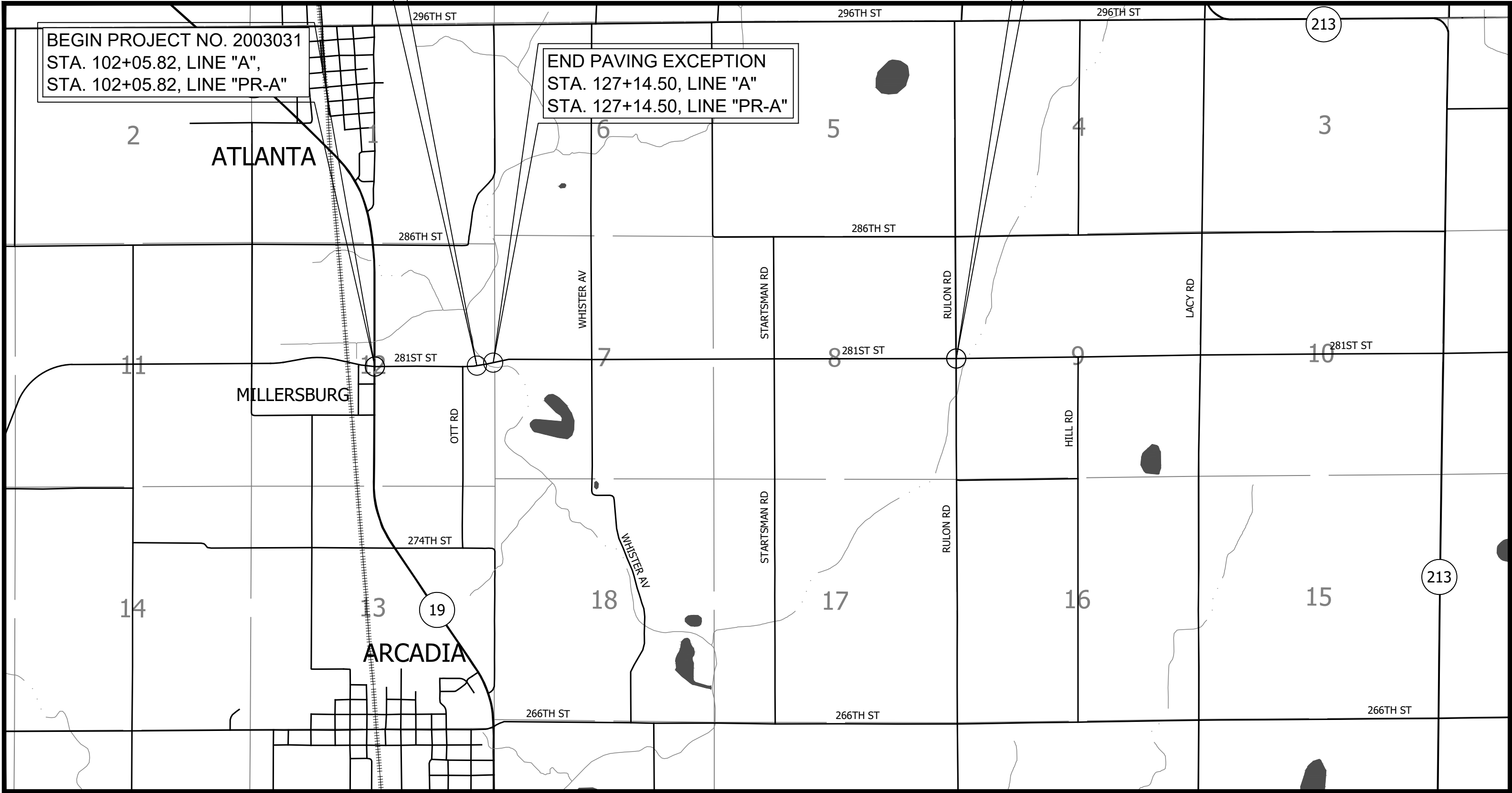
Net Length: 2.34 MI.

Maximum Grade: 3.71 %

END PROJECT NO. 2003031
STA. 227+45.00, LINE "A"
STA. 227+45.00, LINE "PR-A"

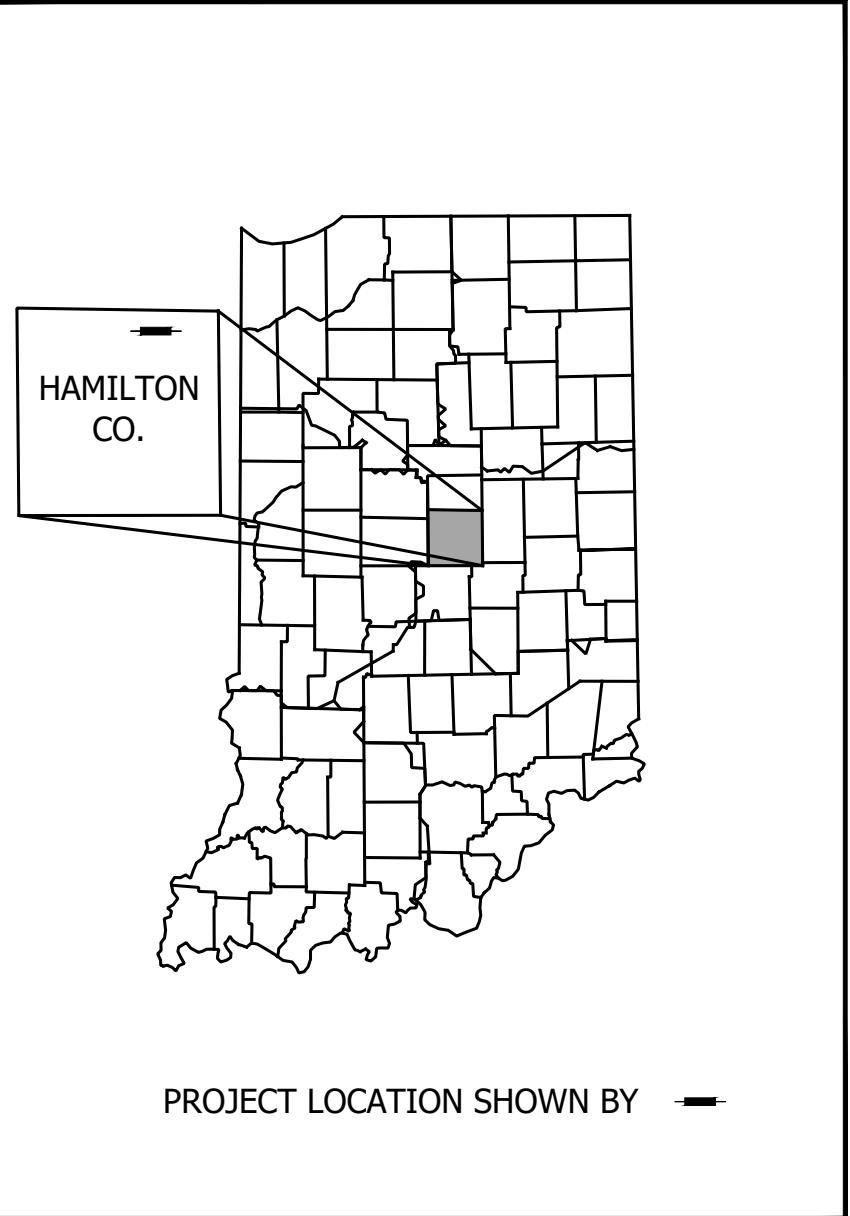
BEGIN PROJECT NO. 2003031
STA. 102+05.82, LINE "A",
STA. 102+05.82, LINE "PR-A"

END PAVING EXCEPTION
STA. 127+14.50, LINE "A"
STA. 127+14.50, LINE "PR-A"



LOCATION MAP
HAMILTON COUNTY, INDIANA

TRAFFIC DATA		281st Street
A.A.D.T.	(2026)	948 V.P.D.
A.A.D.T.	(2046)	1157 V.P.D.
D.H.V	(2046)	115 V.P.H.
DIRECTIONAL DISTRIBUTION		50 %
TRUCKS		11 % A.A.D.T. 6 % D.H.V.
DESIGN DATA		
DESIGN SPEED		50 M.P.H.
PROJECT DESIGN CRITERIA		3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION		MAJOR COLLECTOR
RURAL/URBAN		RURAL
TERRAIN		LEVEL
ACCESS CONTROL		NONE



BEGIN:	LATITUDE: 40° 11' 51" N	LONGITUDE: 86° 01' 21" W
END:	LATITUDE: 40° 11' 53" N	LONGITUDE: 85° 58' 37" W
HUC:	051202010606	

STAGE 2
DECEMBER 13, 2024

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

HAMILTON COUNTY BOARD OF COMMISSIONERS

ATTEST _____
DATE _____

RECOMMENDED FOR APPROVAL _____
DATE _____

JOEL THURMAN P.E., E.R.C. (EMPLOYEE OF RESPONSIBLE CHARGE)

RQAW | DCCM

8770 NORTH ST., STE 110
FISHERS, IN 46038
P: 317.588.1798
F: 317.588.1799
RQAW.DCCM.COM

PLANS PREPARED BY:	RQAW Corporation	317-588-1798
		PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

	DESIGNATION 2003031
SURVEY BOOK	SHEET 1 of 179
CONTRACT R-43619	PROJECT 2003031

UTILITIES

UTILITY	OWNER	ADDRESS
ELECTRIC	AMERICAN ELECTRIC POWER	5000 N WHEELING AVE MUNCIE, IN 47304 CONTACT: J. JAY MARLOW EMAIL: FW_PublicProjects@aep.com PHONE: 260-408-3447
SEWER/WATER	TOWN OF ATLANTA UTILITIES	105 E MAIN ST ATLANTA, IN 46031 CONTACT: ANDY EMMERT EMAIL: Emmert7089@gmail.com PHONE: 765-292-2626
PIPELINE	BUCKEYE	6161 HAMILTON BLVD ALLEN TOWN, PA 18106 CONTACT: TRACI MCCLERNON EMAIL: tmccclernon@buckeye.com PHONE: 610-904-4475
GAS	CENTERPOINT ENERGY (NORTH) (FORMERLY VECTREN)	1800 W 26TH ST MUNCIE, IN 47302 CONTACT: JON EASTHAM EMAIL: publicproject@centerpointenergy.com PHONE: 765-287-2119
COMMUNICATIONS	ENDEAVOR COMMUNICATIONS	2 S WEST ST CLOVERDALE, IN 46120 CONTACT: MATTHEW EMMERICH EMAIL: memmerich@weendeavor.com PHONE: 765-795-5554
CABLE	COMCAST CABLE (INDIANAPOLIS)	688 INDUSTRIAL DR ELMHURST, IL 60126 CONTACT: RHONDA DALTON EMAIL: rhonda_dalton@comcast.com PHONE: 224-229-5863
ELECTRIC	DUKE ENERGY	100 S MILL CREEK RD NOBLESVILLE, IN 46062 CONTACT: DON MCDUFFY EMAIL: dei-dline-coord@duke-energy.com PHONE: 317-776-5320
TELEPHONE	FRONTIER	8001 W JEFFERSON BLVD FORT WAYNE, IN 46804 CONTACT: FRONTIER RELOCATIONS EMAIL: utilitycordreq@ftr.com PHONE: 260-908-2444

GENERAL NOTES

GENERAL NOTES	
**	This set of Plans shall not be construed to be a property retracement survey. Where apparent property lines, corners, subdivision or section corner information are shown, they are based on physical evidence or testimony.
**	These plans show the location of the utilities as existing in the field by the respective utility companies; therefore, the firm of RQAW Corporation does not accept any responsibility for the accuracy of this information.
**	In accordance with Indiana Code 8-1, Chapter 26, the Contractor shall notify the Indiana Underground Plant Protection Service at 1-800-382-5544 at least two (2) full working days prior to any excavation or demolition.

** REPRESENTS GENERAL NOTES REQUIRED

REVISIONS

[illegible]

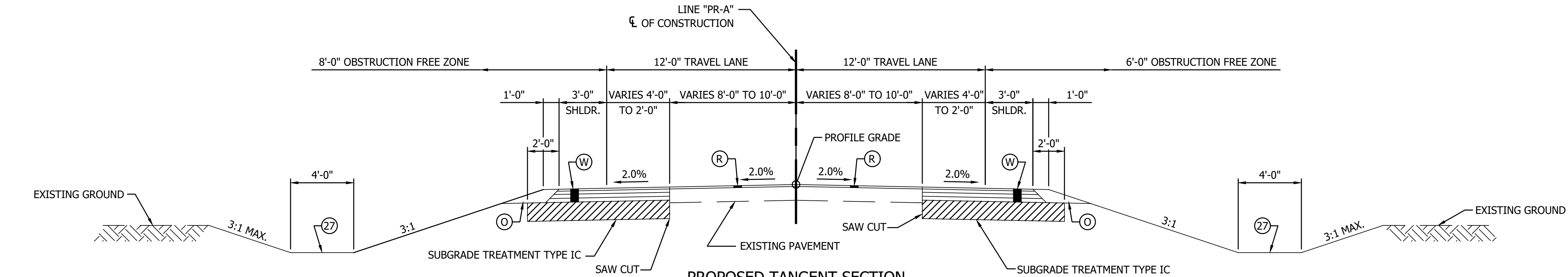
INDEX

[illegible]

CALL 811 OR 1-800-382-5544
24 HOURS A DAY,
SEVEN DAYS A WEEK

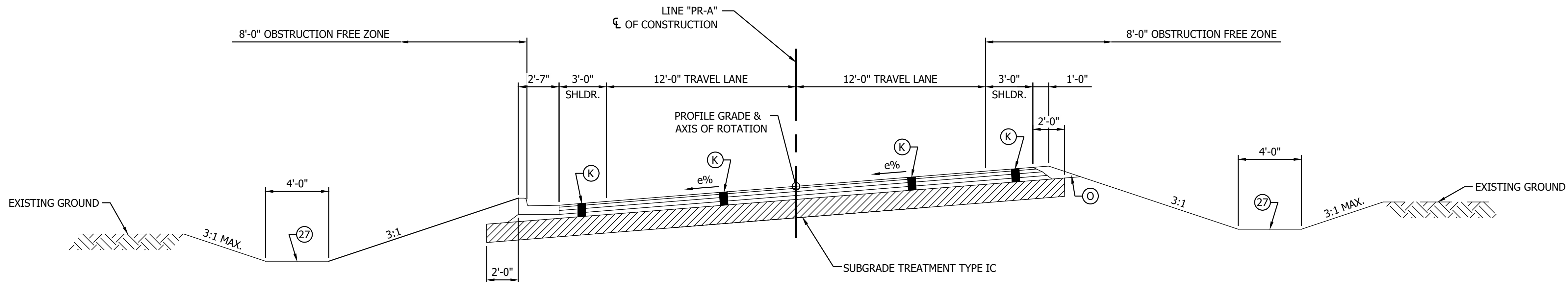
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		CHECKED: <u>RDS</u> <u>1/9/2025</u>		CHECKED: <u>YZ</u> <u>1/9/2025</u>		SURVEY BOOK		SHEET 2 of 179	
				INDEX AND GENERAL NOTES		CONTRACT R-43619		PROJECT 2003031	

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EDITED BY: EBYERS
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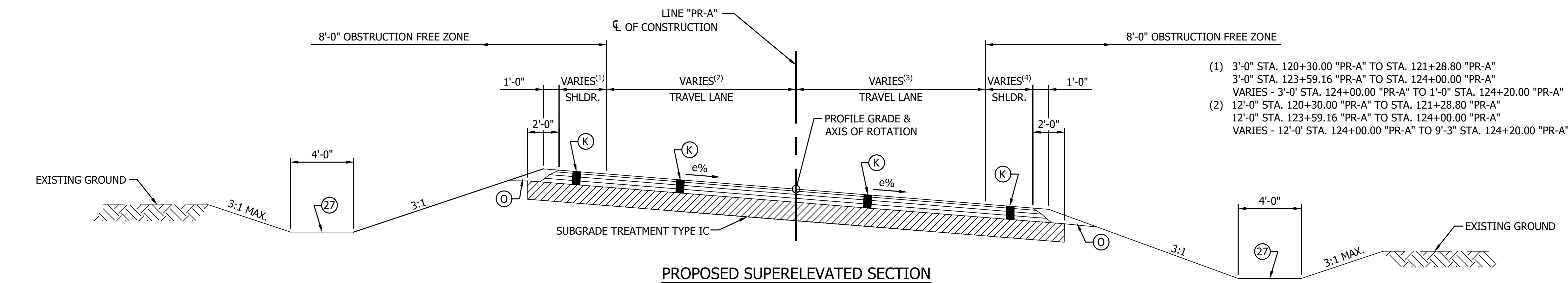
PROPOSED TANGENT SECTION

STA. 102+95.00 TO STA. 109+99.00 "PR-A"
STA. 110+21.00 TO STA. 120+30.00 "PR-A"
STA. 136+20.00 TO STA. 143+68.00 "PR-A"
STA. 143+90.00 TO STA. 146+60.00 "PR-A"
STA. 151+55.00 TO STA. 155+70.00 "PR-A"
STA. 161+20.00 TO STA. 164+10.00 "PR-A"
STA. 169+50.00 TO STA. 188+20.00 "PR-A"
STA. 190+30.00 TO STA. 227+95.00 "PR-A"



PROPOSED SUPERELEVATED SECTION - CURBED

STA. 121+28.80 TO STA. 123+59.16 "PR-A"

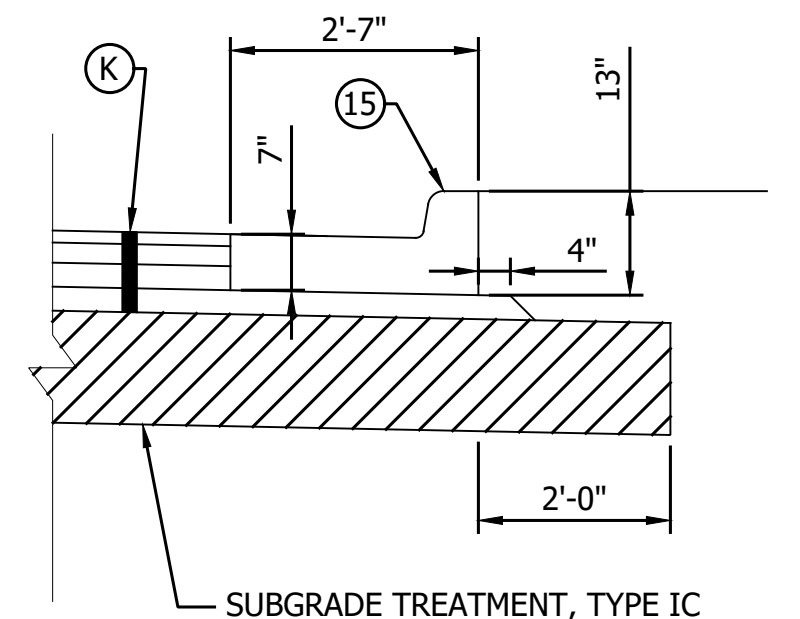


PROPOSED SUPERELEVATED SECTION

(CURVES TO THE RIGHT, REVERSE FOR CURVES TO THE LEFT)
STA. 120+30.00 TO STA. 121+28.80 "PR-A"
STA. 123+59.16 TO STA. 124+20.00 "PR-A"

LEGEND

- (K) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on
275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (for
constructability with curbs) on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum,
or thickness necessary to match adjacent pavement) on
Subgrade Treatment, Type IC
- (O) Compacted Aggregate, No. 53
- (R) HMA Milling & Overlay Consisting of:,
Milling, Profile
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm
- (S) Sawcut
- (W) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on
Widening with HMA, Type B Consisting of:
275 LB/SYD HMA Intermediate, Type B, on
330 LB/SYD HMA Base, Type B, on
330 LB/SYD HMA Base, Type B, (minimum, or thickness
necessary to match adjacent pavement) on
Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete
- (27) Seeding Consisting of:,
Seed Mixture, R
Fertilizer
Mulching Material
- (29) Erosion Control Blanket



CONCRETE CURB AND GUTTER DETAIL

SCALE: 1/2" = 1'-0"

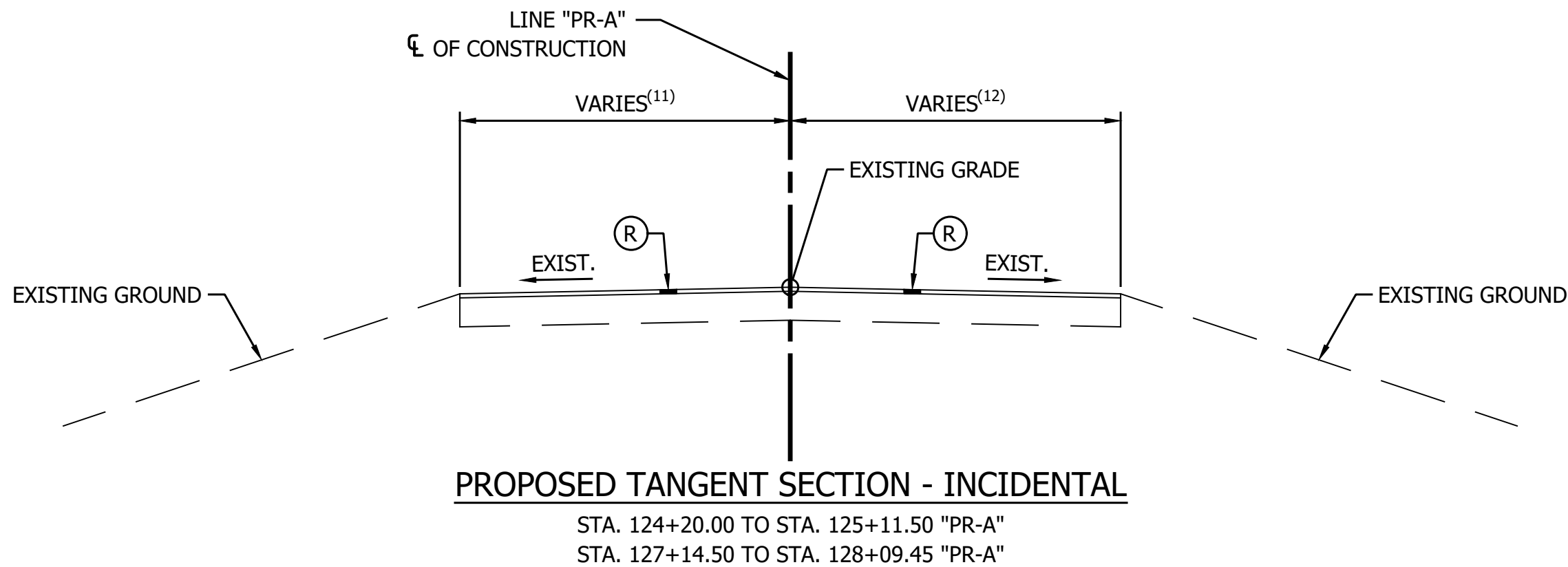
- (1) 3'-0" STA. 120+30.00 "PR-A" TO STA. 121+28.80 "PR-A"
3'-0" STA. 123+59.16 "PR-A" TO STA. 124+00.00 "PR-A"
VARIES - 3'-0" STA. 124+00.00 "PR-A" TO 1'-0" STA. 124+20.00 "PR-A"
- (2) 12'-0" STA. 120+30.00 "PR-A" TO STA. 121+28.80 "PR-A"
12'-0" STA. 123+59.16 "PR-A" TO STA. 124+00.00 "PR-A"
VARIES - 12'-0" STA. 124+00.00 "PR-A" TO 9'-3" STA. 124+20.00 "PR-A"

- (3) 12'-0" STA. 120+30.00 "PR-A" TO STA. 121+28.80 "PR-A"
12'-0" STA. 123+59.16 "PR-A" TO STA. 124+00.00 "PR-A"
VARIES - 12'-0" STA. 124+00.00 "PR-A" TO 8'-6" STA. 124+20.00 "PR-A"
- (4) 3'-0" STA. 120+30.00 "PR-A" TO STA. 121+28.80 "PR-A"
3'-0" STA. 123+59.16 "PR-A" TO STA. 124+00.00 "PR-A"
VARIES - 3'-0" STA. 124+00.00 "PR-A" TO 1'-0" STA. 124+20.00 "PR-A"

NOTE TO REVIEWER:
PAVEMENT DESIGN IS ASSUMED. PAVEMENT DESIGN
WILL BE UPDATED FOR FUTURE SUBMITTALS.

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: MJR 12/20/2024		DRAWN: MJR 12/20/2024		INDIANA DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS LINE "PR-A"	
CHECKED: YZ 1/9/2025		CHECKED: YZ 1/9/2025			
HORIZONTAL SCALE		BRIDGE FILE			
1" = 4'					
VERTICAL SCALE		DESIGNATION			
NONE		2003031			
SURVEY BOOK		SHEET			
		3 of 179			
CONTRACT		PROJECT			
R-43619		2003031			

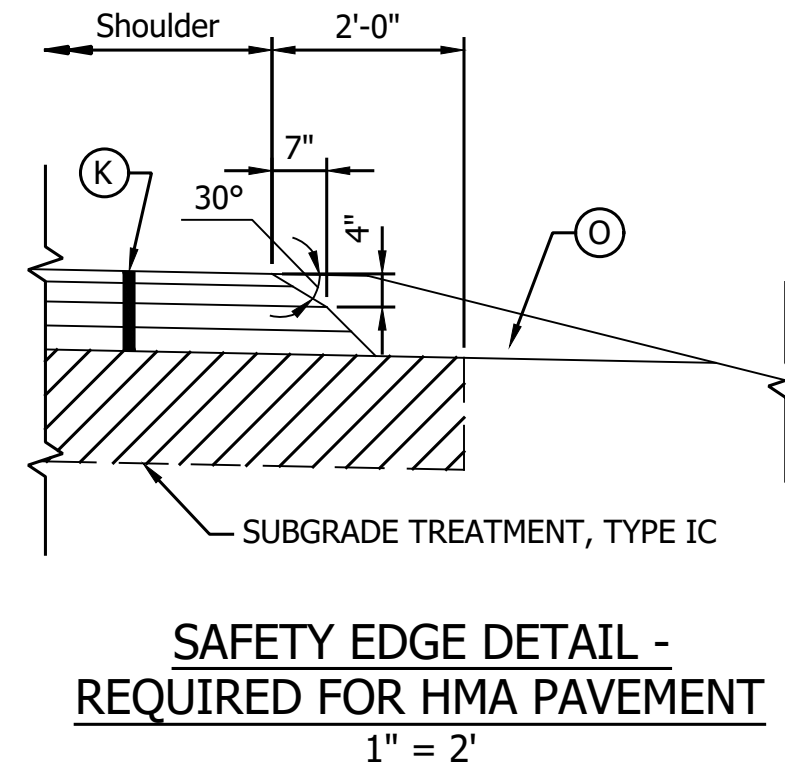
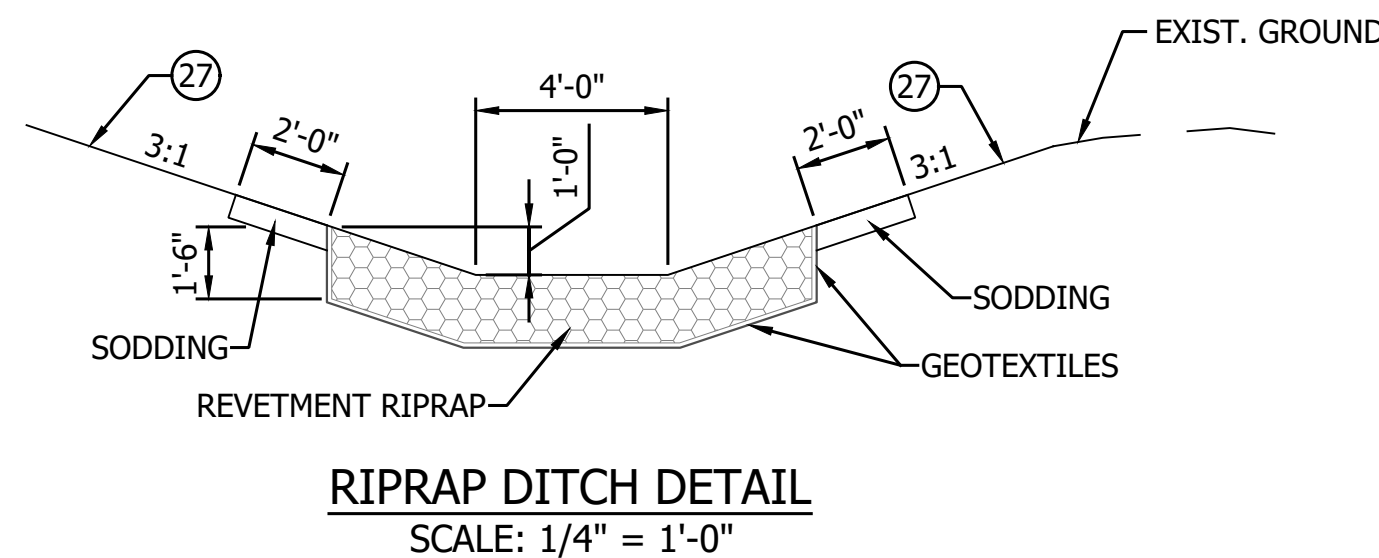
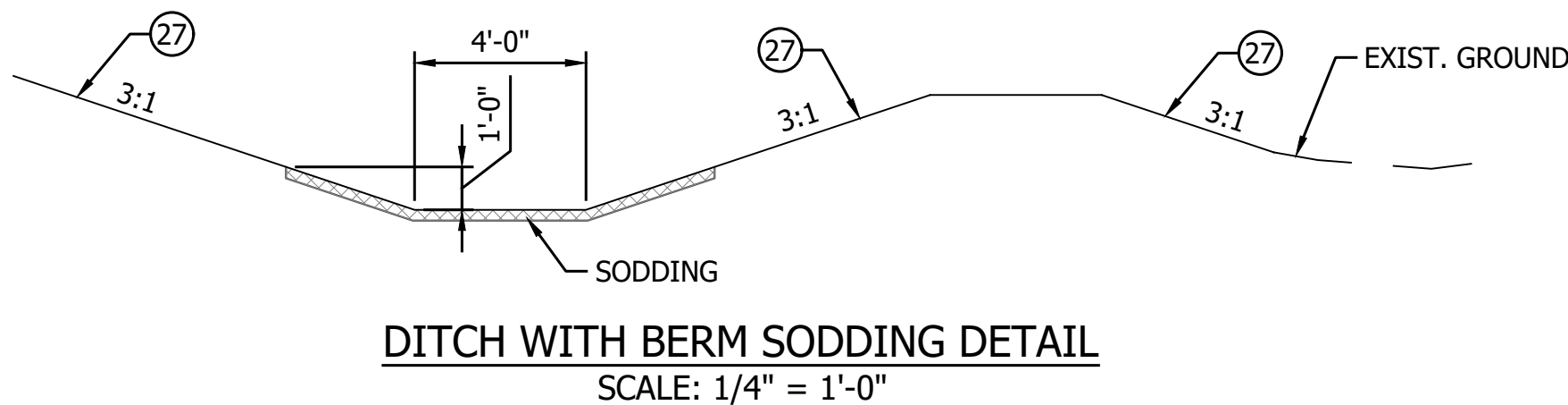
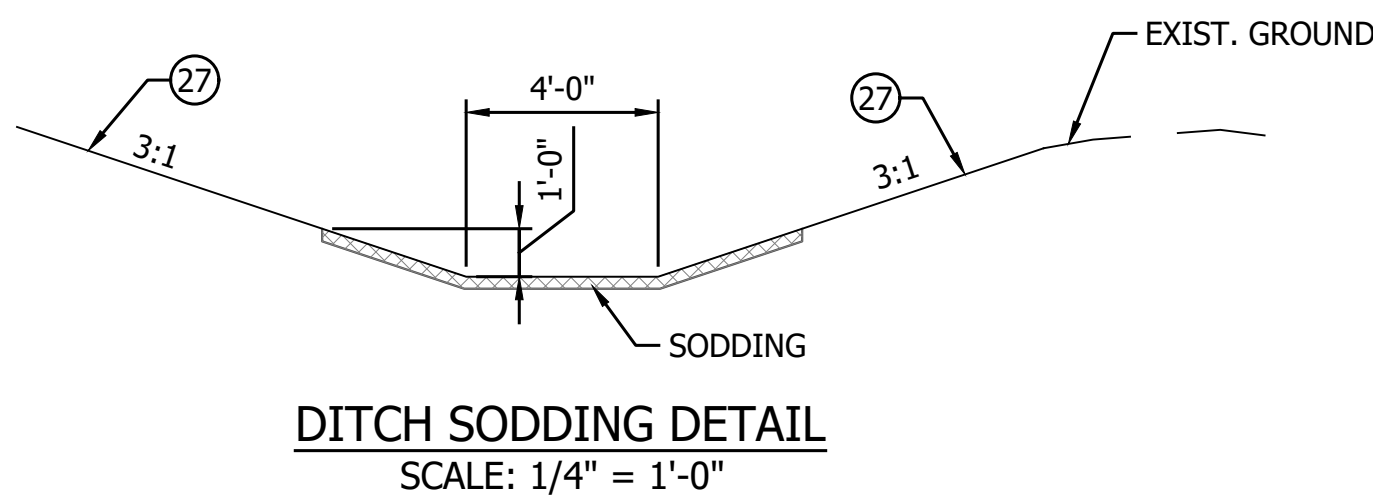
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EDITED BY: EBYERS
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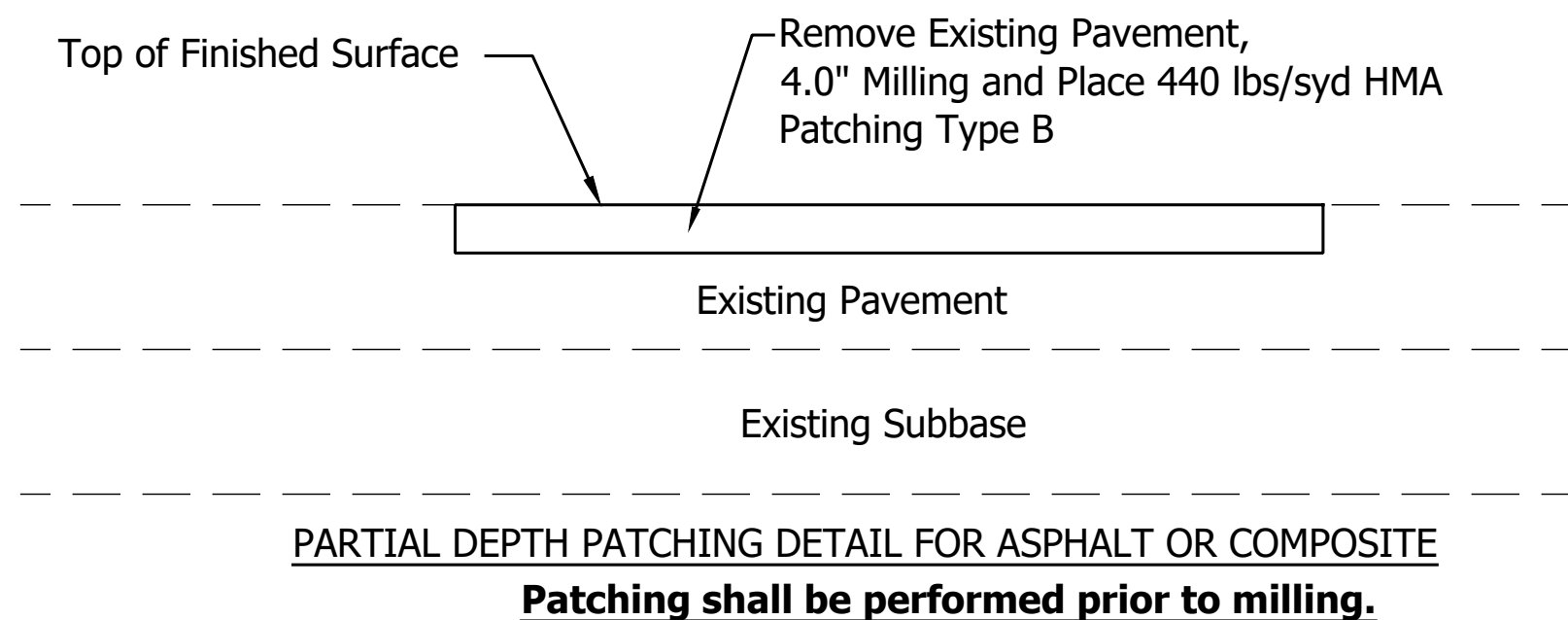
(11) VARIES - 9'-6" STA. 124+20.00 "PR-A" TO 9'-11" STA. 124+52.49 "PR-A"
VARIES - 9'-9" STA. 128+09.85 "PR-A" TO 10'-4" STA. 127+37.06 "PR-A"
(12) VARIES - 10'-2" STA. 124+52.53 "PR-A" TO 10'-6" STA. 125+05.60 "PR-A"
VARIES - 9'-10" STA. 127+37.43 "PR-A" TO 10'-5" STA. 128+09.02 "PR-A"

LEGEND

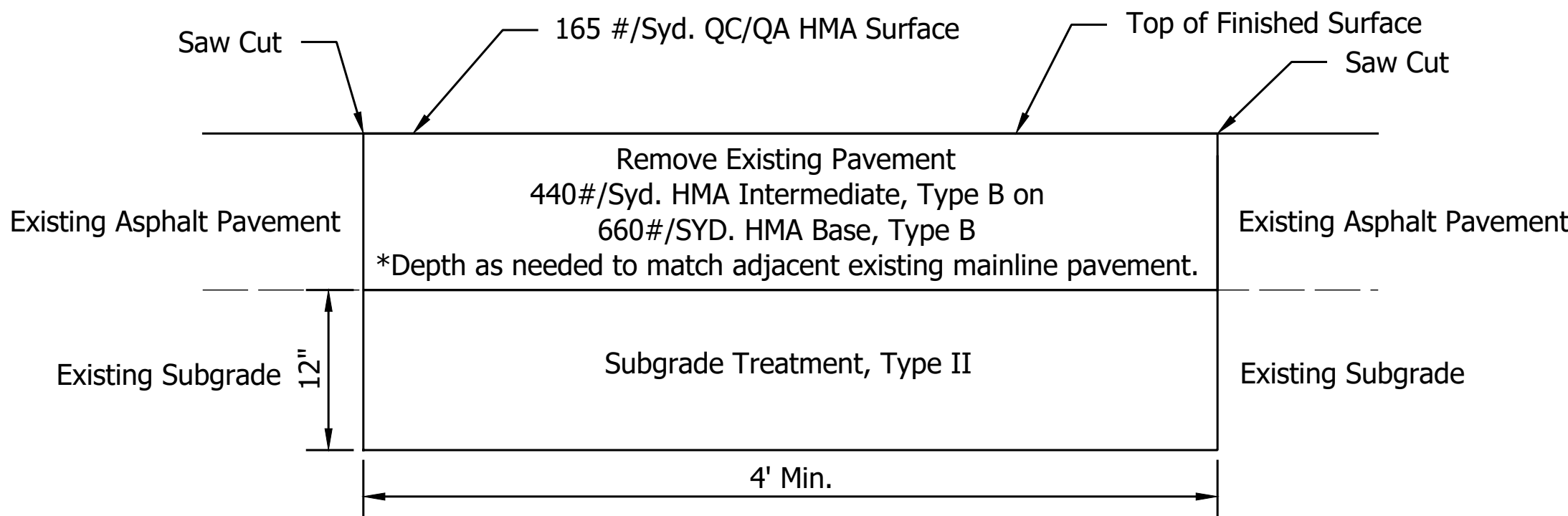
- (K) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on
275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (for
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330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum,
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- (O) Compacted Aggregate, No. 53
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- (S) Sawcut
- (W) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on
Widening with HMA, Type B Consisting of:
275 LB/SYD HMA Intermediate, Type B, on
330 LB/SYD HMA Base, Type B, on
330 LB/SYD HMA Base, Type B, (minimum, or thickness
necessary to match adjacent pavement) on
Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete
- (27) Seeding Consisting of:,
Seed Mixture, R
Fertilizer
Mulching Material
- (29) Erosion Control Blanket



NOTE: Safety Edge not required at locations of Guardrail



Patching shall be performed prior to milling.



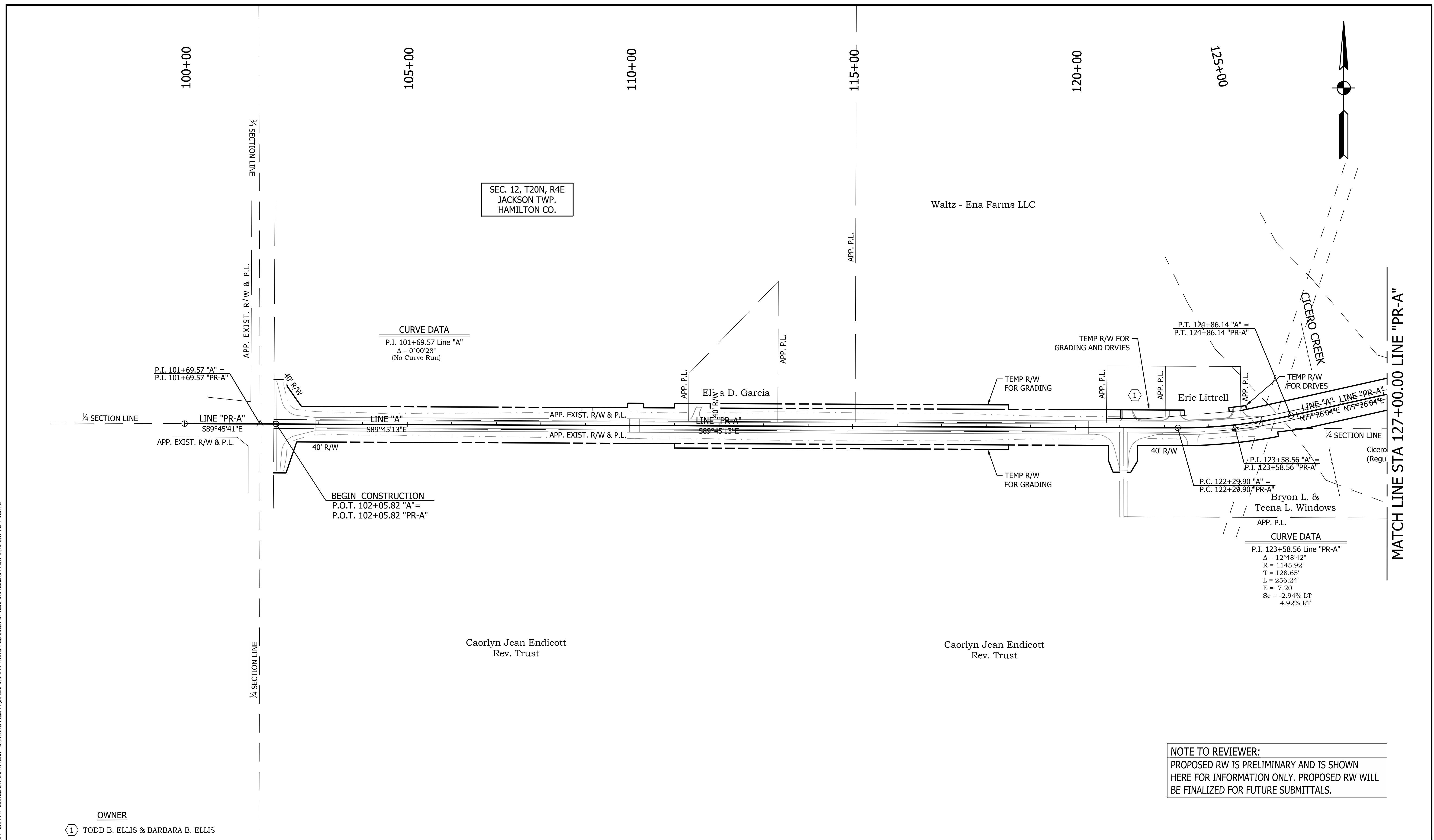
Patching shall be performed prior to milling.

RECOMMENDED FOR APPROVAL	
DESIGNED: MJR 12/20/2024	DRAWN: MJR 12/20/2024
CHECKED: NDH 1/9/2025	CHECKED: NDH 1/9/2025

INDIANA
DEPARTMENT OF TRANSPORTATION

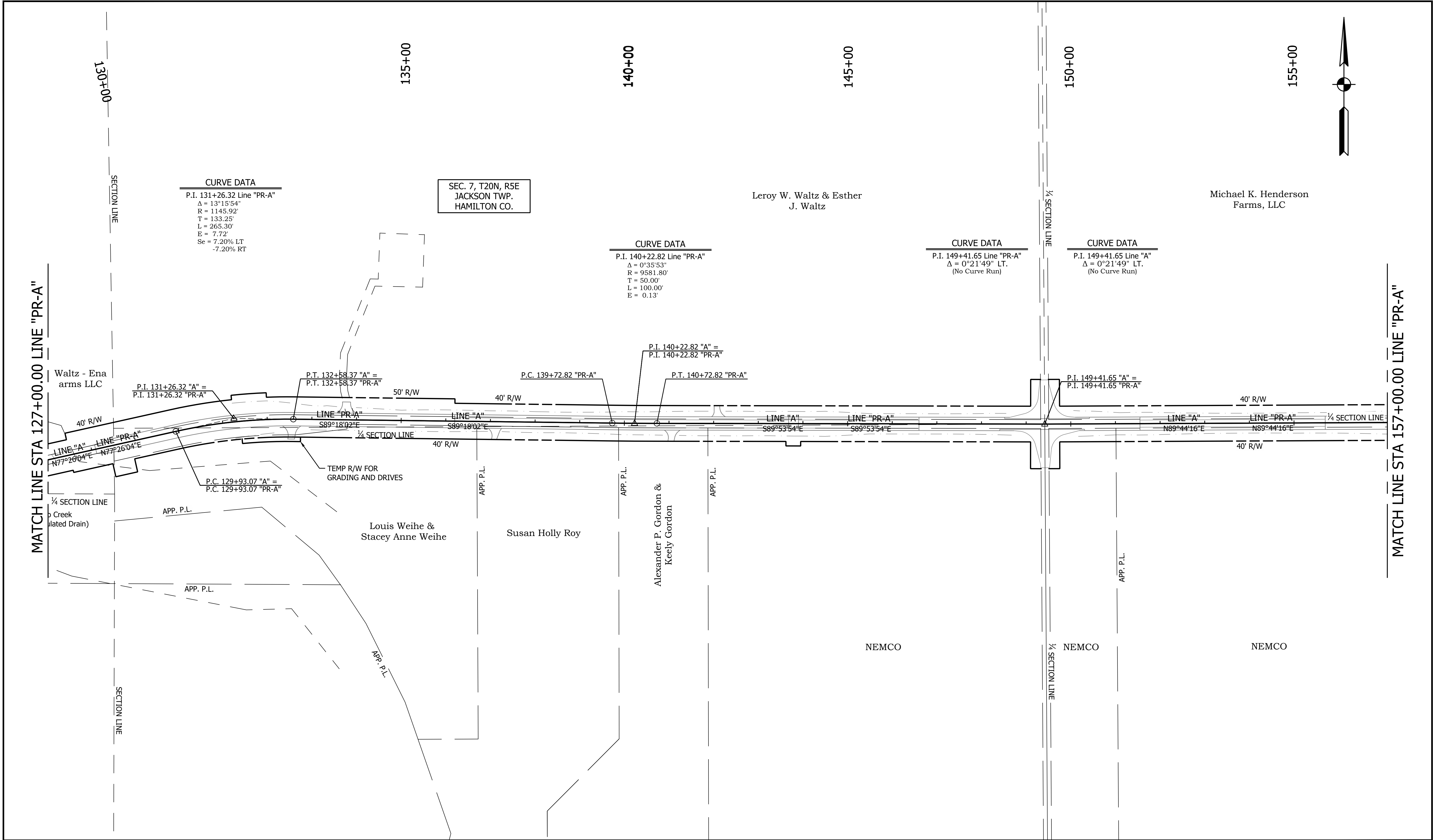
TYPICAL SECTIONS
LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	5 of 179
CONTRACT	PROJECT
R-43619	2003031



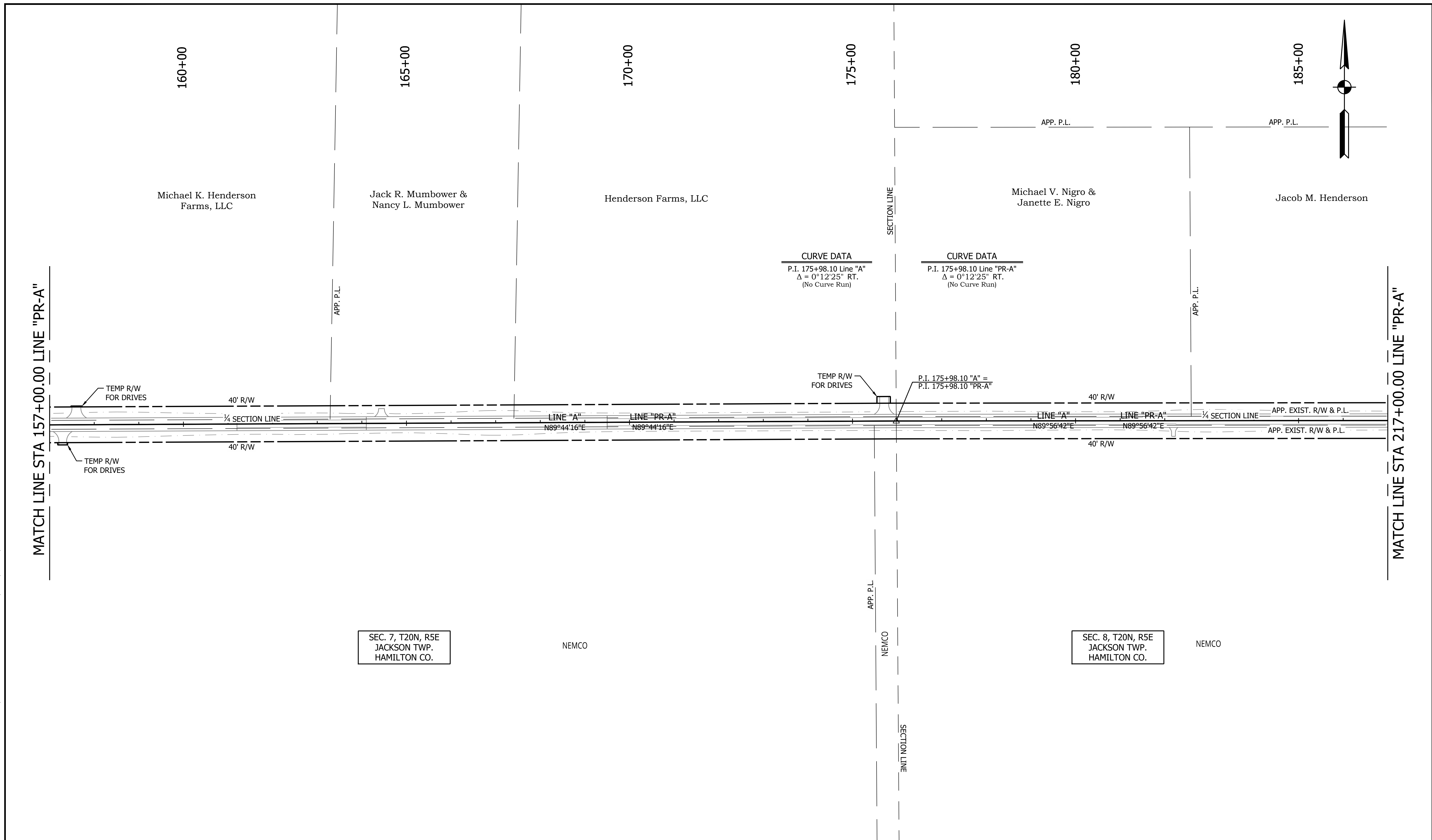
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							VERTICAL SCALE N/A		DESIGNATION 2003031			
			DESIGNED: ESB 12/19/2024		DRAWN: ESB 12/19/2024		PLAT NO 1		SURVEY BOOK		SHEET	
									6 of 179			
			CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025				CONTRACT R-43619		PROJECT 2003031	

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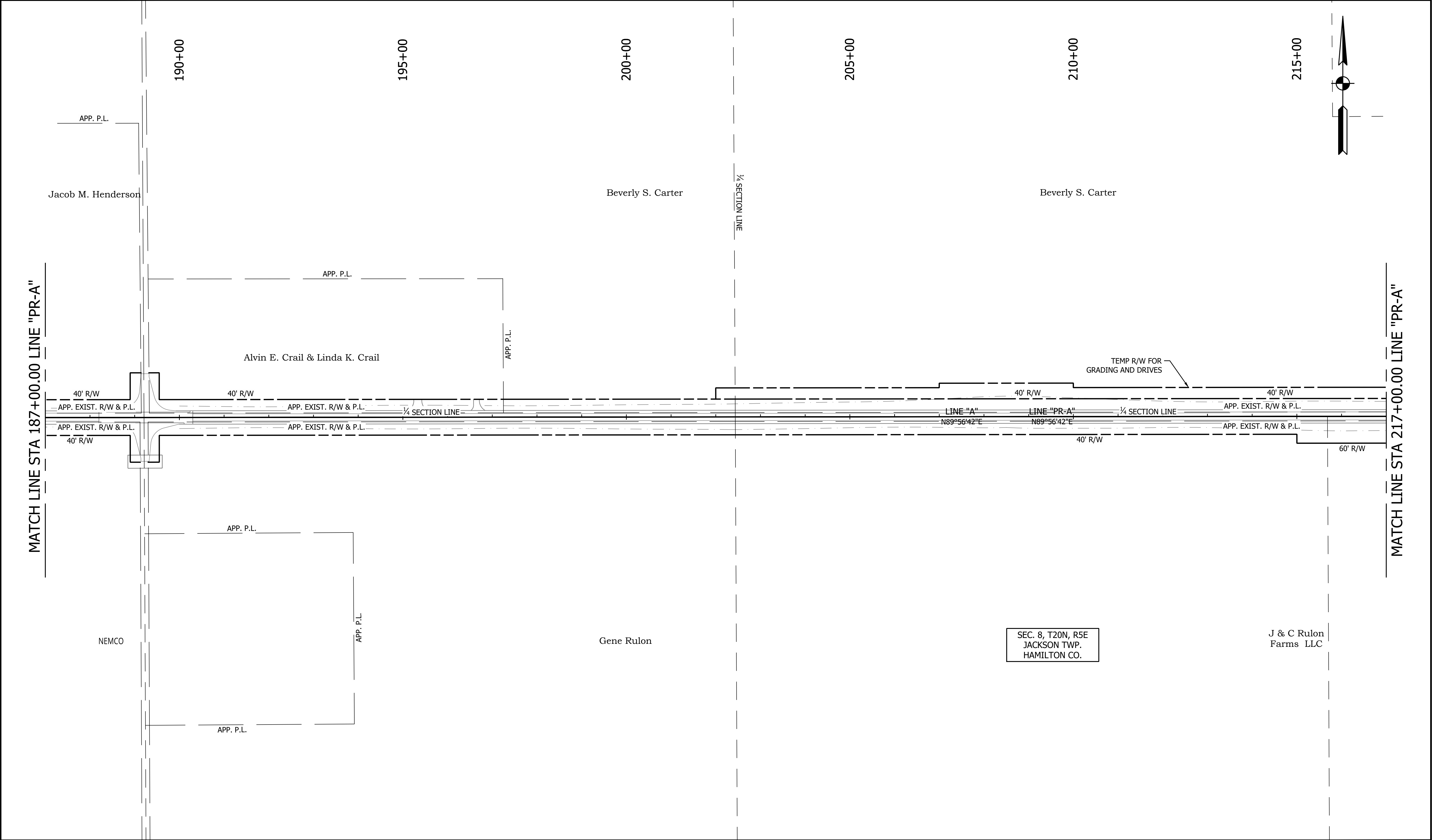
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CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025			

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	
VERTICAL SCALE	DESIGNATION
N/A	2003031
SURVEY BOOK	SHEET
	7 of 179
CONTRACT	PROJECT
R-43619	2003031

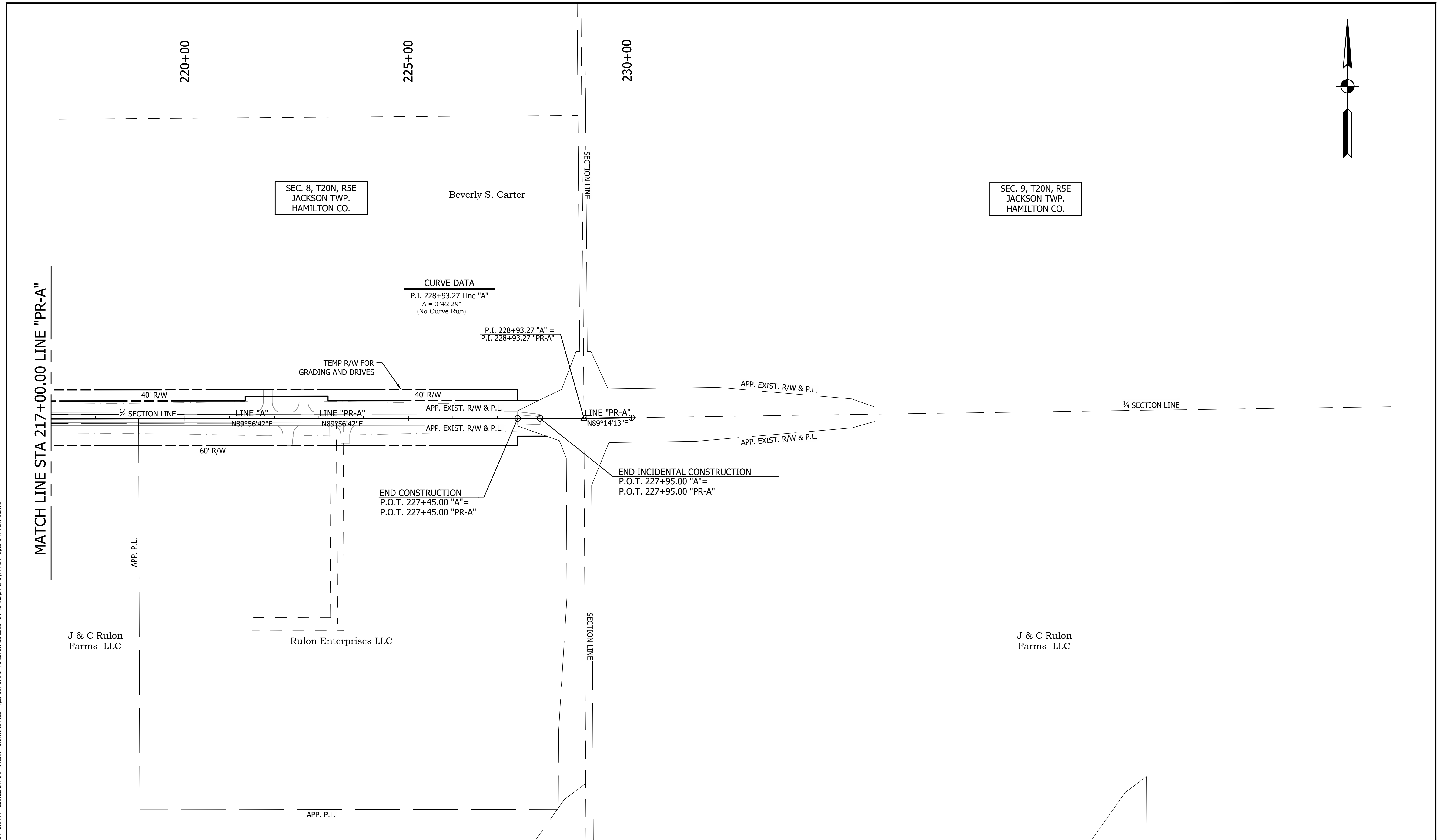


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		DESIGN ENGINEER _____ DATE _____			1" = 100'	
		DESIGNED: <u>ESB 12/19/2024</u>	DRAWN: <u>ESB 12/19/2024</u>		VERTICAL SCALE	DESIGNATION
					N/A	2003031
		CHECKED: <u>NDH 1/9/2025</u>	CHECKED: <u>NDH 1/9/2025</u>		PLAT NO 1	

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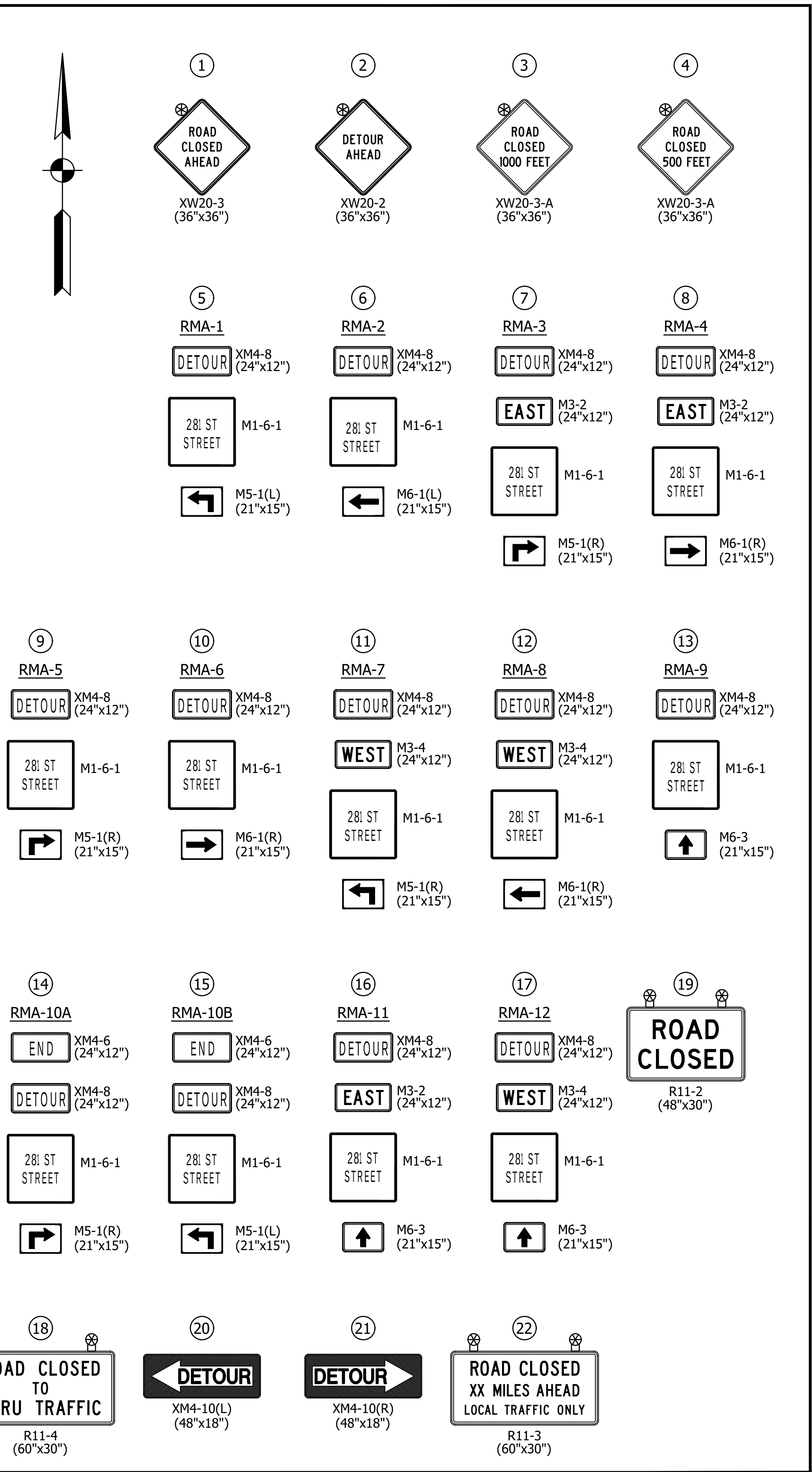
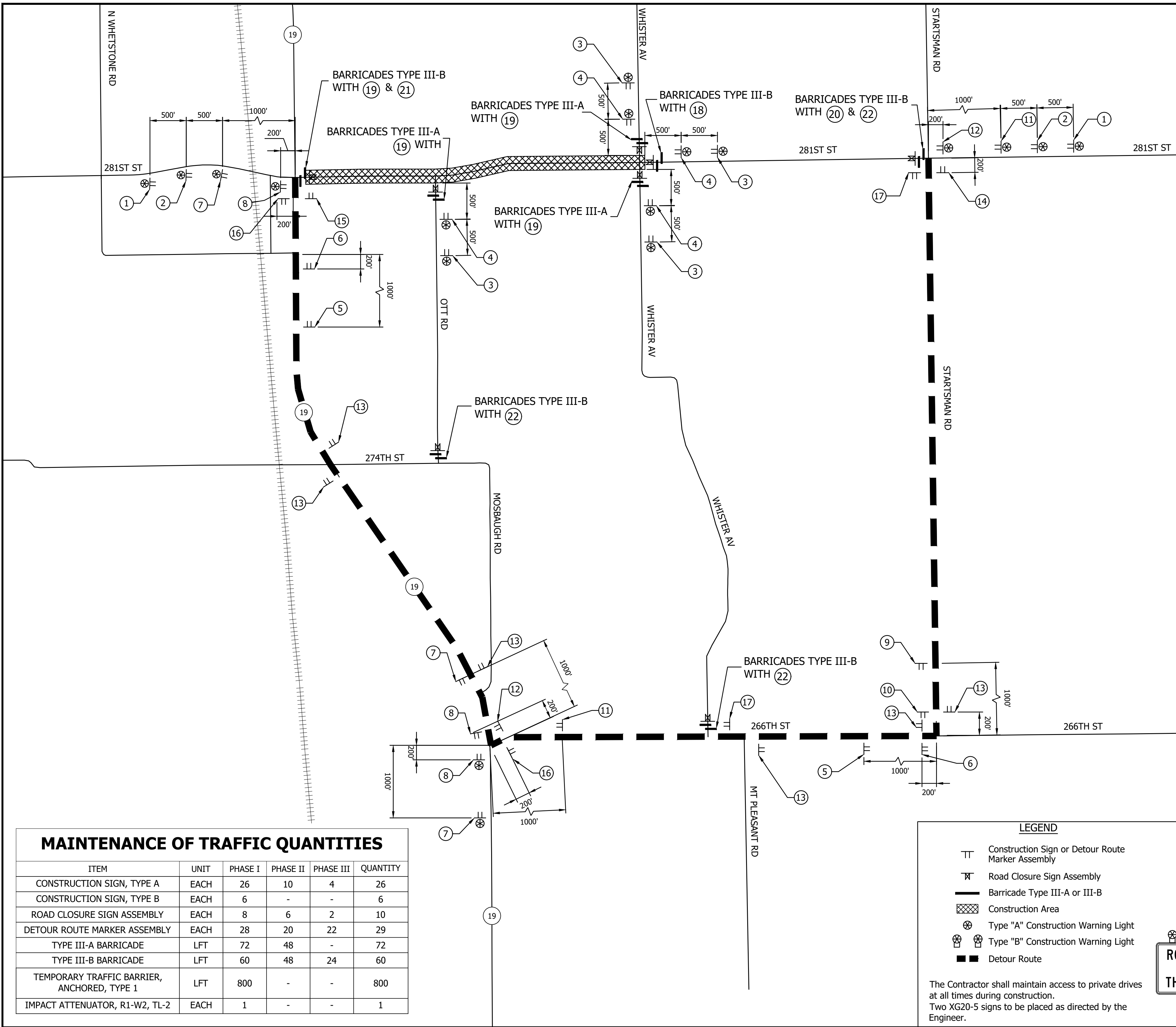


		RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
										1" = 100'			
										VERTICAL SCALE		DESIGNATION	
										N/A		2003031	
										SURVEY BOOK		SHEET	
												9 of 179	
								PLAT NO 1		CONTRACT		PROJECT	
										R-43619		2003031	



RECOMMENDED FOR APPROVAL			DESIGN ENGINEER			DATE			INDIANA DEPARTMENT OF TRANSPORTATION						HORIZONTAL SCALE 1" = 100'			BRIDGE FILE		
															VERTICAL SCALE N/A			DESIGNATION 2003031		
DESIGNED: <u>ESB 12/19/2024</u>			DRAWN: <u>ESB 12/19/2024</u>			PLAT NO 1						SURVEY BOOK			SHEET 10 of 179					
CHECKED: <u>NDH 1/9/2025</u>			CHECKED: <u>NDH 1/9/2025</u>									CONTRACT R-43619			PROJECT 2003031					

PRINT DATE: 1/9/25
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EDIT DATE: 7/12/11 - 2:06 PM
EDITED BY: EBYERS



MAINTENANCE OF TRAFFIC QUANTITIES

ITEM	UNIT	PHASE I	PHASE II	PHASE III	QUANTITY
CONSTRUCTION SIGN, TYPE A	EACH	26	10	4	26
CONSTRUCTION SIGN, TYPE B	EACH	6	-	-	6
ROAD CLOSURE SIGN ASSEMBLY	EACH	8	6	2	10
DETOUR ROUTE MARKER ASSEMBLY	EACH	28	20	22	29
TYPE III-A BARRICADE	LFT	72	48	-	72
TYPE III-B BARRICADE	LFT	60	48	24	60
TEMPORARY TRAFFIC BARRIER, ANCHORED, TYPE 1	LFT	800	-	-	800
IMPACT ATTENUATOR, R1-W2, TL-2	EACH	1	-	-	1

LEGEND

- TT Construction Sign or Detour Route Marker Assembly
- ⊠ Road Closure Sign Assembly
- Barricade Type III-A or III-B
- ▨ Construction Area
- ⊗ Type "A" Construction Warning Light
- ⊙ Type "B" Construction Warning Light
- Detour Route

The Contractor shall maintain access to private drives at all times during construction.
Two XG20-5 signs to be placed as directed by the Engineer.

INDIANA
DEPARTMENT OF TRANSPORTATION

TRAFFIC MAINTENANCE DETAILS
281st STREET - PHASE I

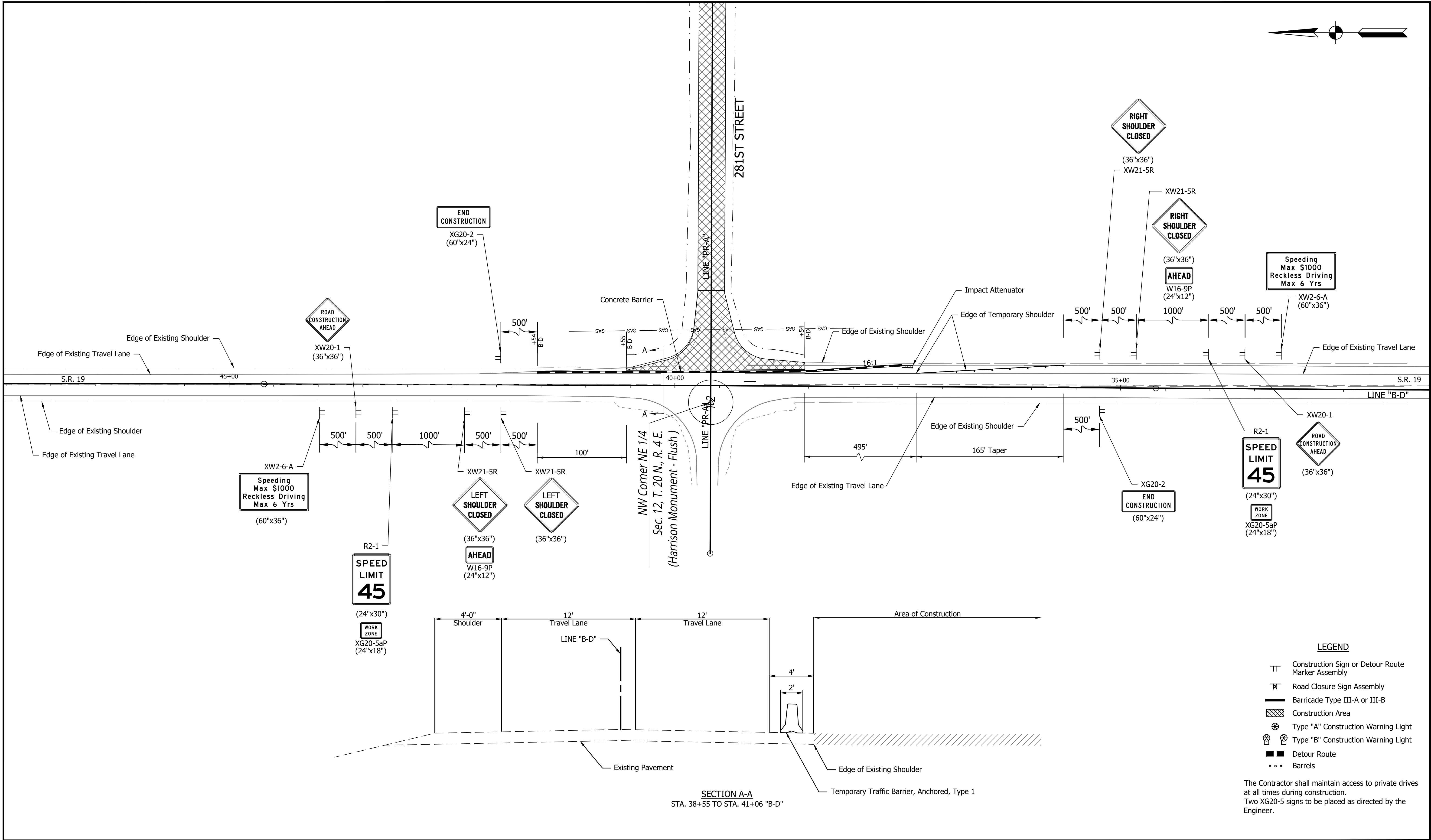
RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER
DATE

DESIGNED: MJR 9/24/2024
DRAWN: MJR 9/24/2024

CHECKED: YZ 1/9/2025
CHECKED: YZ 1/9/2025

HORIZONTAL SCALE	BRIDGE FILE
1" = 750'	DESIGNATION
VERTICAL SCALE	2003031
N/A	
SURVEY BOOK	SHEET
	11 of 179
CONTRACT	PROJECT
R-43619	2003031

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
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EDIT DATE: 7/12/11 - 2:06 PM
EDITED BY: EBYERS



		RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
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						VERTICAL SCALE		DESIGNATION	
						N/A		2003031	
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								12 of 179	
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						R-43619		2003031	

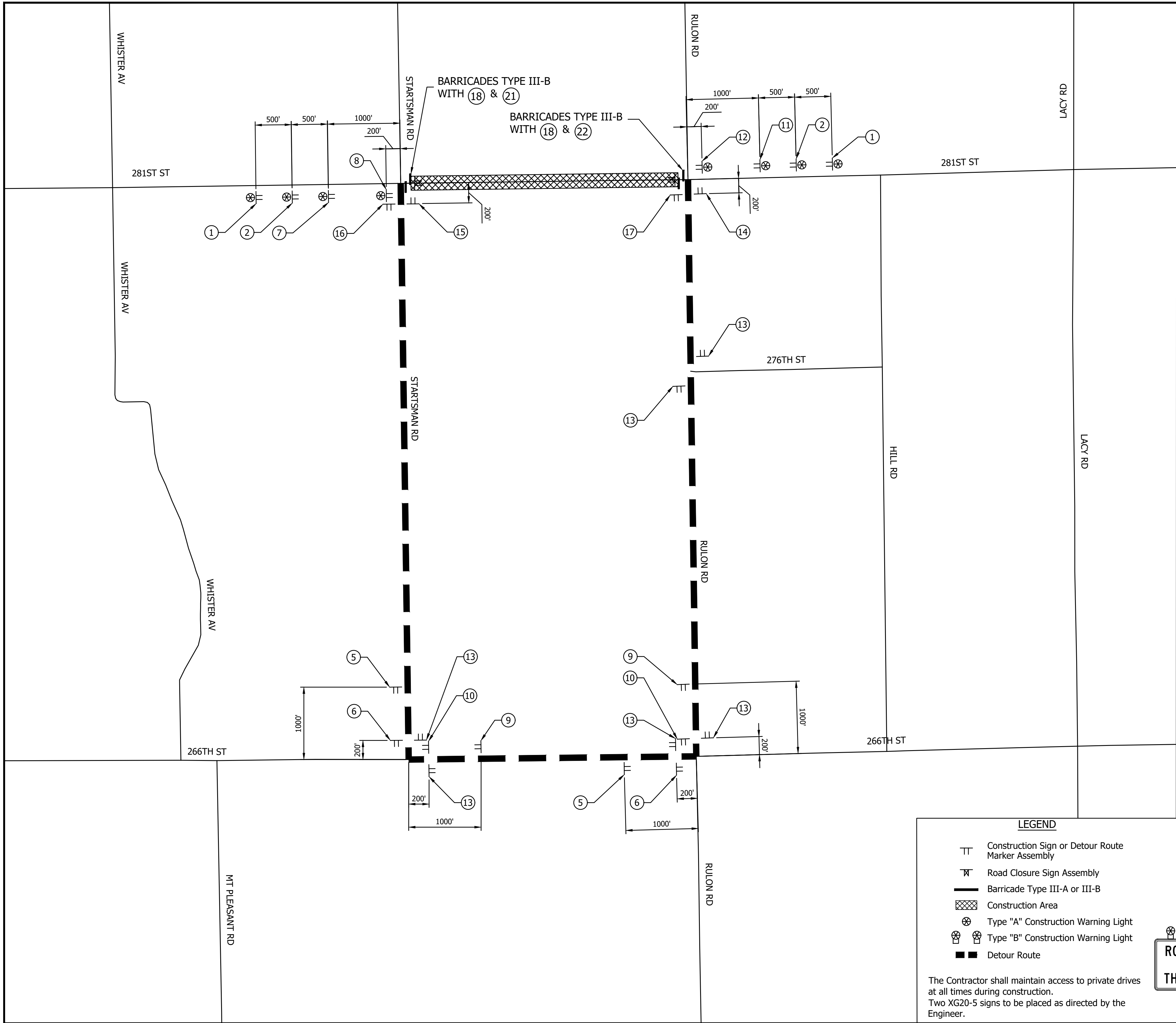


LEGEND

- Construction Sign or Detour Route Marker Assembly
- Road Closure Sign Assembly
- Barricade Type III-A or III-B
- Construction Area
- Type "A" Construction Warning Light
- Type "B" Construction Warning Light
- Detour Route

The Contractor shall maintain access to private drives at all times during construction. Two XG20-5 signs to be placed as directed by the Engineer.

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
DRAWING FILE: P:\21-500\371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\5 MOT-SHT-DETOUR_281ST.DWG
EDIT DATE: 7/12/11 - 2:06 PM
EDITED BY: EBYERS



LEGEND

- TT Construction Sign or Detour Route Marker Assembly
- ⊠ Road Closure Sign Assembly
- Barricade Type III-A or III-B
- ▨ Construction Area
- ⊗ Type "A" Construction Warning Light
- ⊙ Type "B" Construction Warning Light
- Detour Route

The Contractor shall maintain access to private drives at all times during construction.
Two XG20-5 signs to be placed as directed by the Engineer.

1

ROAD CLOSED AHEAD

XW20-3
(36"x36")

2

DETOUR AHEAD

XW20-2
(36"x36")

3

ROAD CLOSED 1000 FEET

XW20-3-A
(36"x36")

4

ROAD CLOSED 500 FEET

XW20-3-A
(36"x36")

5

RMA-1

DETOUR

XM4-8
(24"x12")

281 ST STREET

M1-6-1

←

M5-1(L)
(21"x15")

6

RMA-2

DETOUR

XM4-8
(24"x12")

281 ST STREET

M1-6-1

←

M6-1(L)
(21"x15")

7

RMA-3

DETOUR

XM4-8
(24"x12")

EAST

M3-2
(24"x12")

281 ST STREET

M1-6-1

→

M5-1(R)
(21"x15")

8

RMA-4

DETOUR

XM4-8
(24"x12")

EAST

M3-2
(24"x12")

281 ST STREET

M1-6-1

→

M6-1(R)
(21"x15")

9

RMA-5

DETOUR

XM4-8
(24"x12")

281 ST STREET

M1-6-1

→

M5-1(R)
(21"x15")

10

RMA-6

DETOUR

XM4-8
(24"x12")

281 ST STREET

M1-6-1

→

M6-1(R)
(21"x15")

11

RMA-7

DETOUR

XM4-8
(24"x12")

WEST

M3-4
(24"x12")

281 ST STREET

M1-6-1

←

M5-1(R)
(21"x15")

12

RMA-8

DETOUR

XM4-8
(24"x12")

WEST

M3-4
(24"x12")

281 ST STREET

M1-6-1

←

M6-1(R)
(21"x15")

13

RMA-9

DETOUR

XM4-8
(24"x12")

281 ST STREET

M1-6-1

↑

M6-3
(21"x15")

14

RMA-10A

END

XM4-6
(24"x12")

DETOUR

XM4-8
(24"x12")

281 ST STREET

M1-6-1

→

M5-1(R)
(21"x15")

15

RMA-10B

END

XM4-6
(24"x12")

DETOUR

XM4-8
(24"x12")

281 ST STREET

M1-6-1

←

M5-1(L)
(21"x15")

16

RMA-11

DETOUR

XM4-8
(24"x12")

EAST

M3-2
(24"x12")

281 ST STREET

M1-6-1

↑

M6-3
(21"x15")

17

RMA-12

DETOUR

XM4-8
(24"x12")

WEST

M3-4
(24"x12")

281 ST STREET

M1-6-1

↑

M6-3
(21"x15")

18

ROAD CLOSED TO THRU TRAFFIC

R11-4
(60"x30")

20

DETOUR

XM4-10(L)
(48"x18")

21

DETOUR

XM4-10(R)
(48"x18")

22

ROAD CLOSED XX MILES AHEAD LOCAL TRAFFIC ONLY

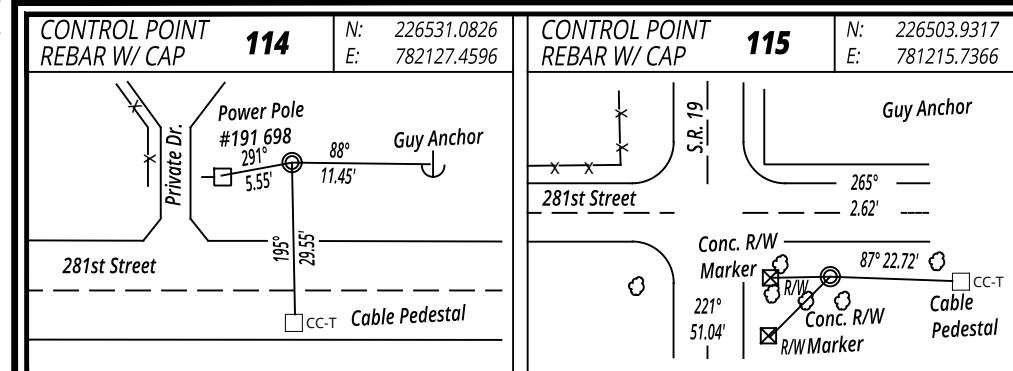
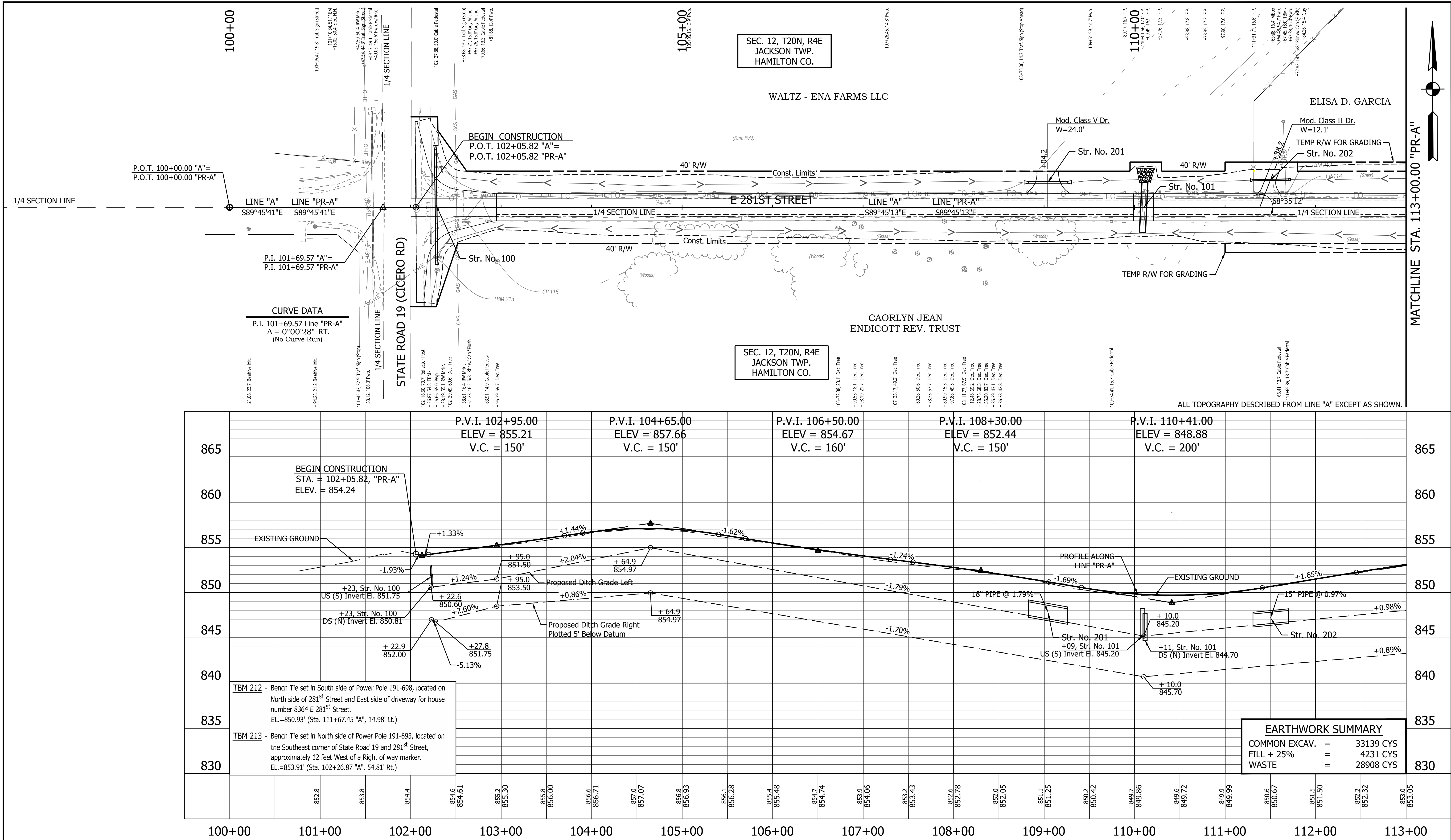
R11-3
(60"x30")

		RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
										1" = 750'			
										VERTICAL SCALE		DESIGNATION	
										N/A		2003031	
										SURVEY BOOK		SHEET	
												14 of 179	
										CONTRACT		PROJECT	
										R-43619		2003031	

DESIGNED: MJR 9/24/2024				DRAWN: MJR 9/24/2024			
CHECKED: YZ 1/9/2025				CHECKED: YZ 1/9/2025			

TRAFFIC MAINTENANCE DETAILS			
281st STREET - PHASE III			

PRINT DATE: 1/9/25
PLOT SCALE: 1" = 110.00'
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\ACAD\66 PLAN\PROF\RD-SHT-PP-281ST ST REHAB.DWG
EDIT DATE: 12/21/24 - 5:17 PM
EDITED BY: EYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\ACAD\66 PLAN\PROF\RD-SHT-PP-281ST ST REHAB.DWG

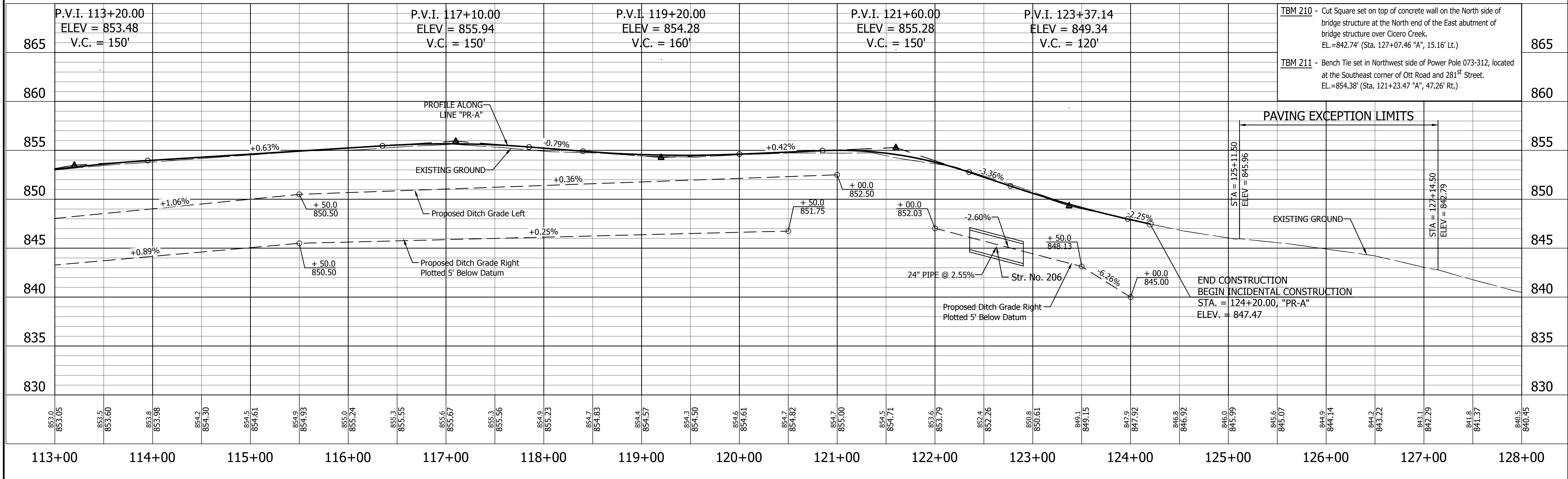
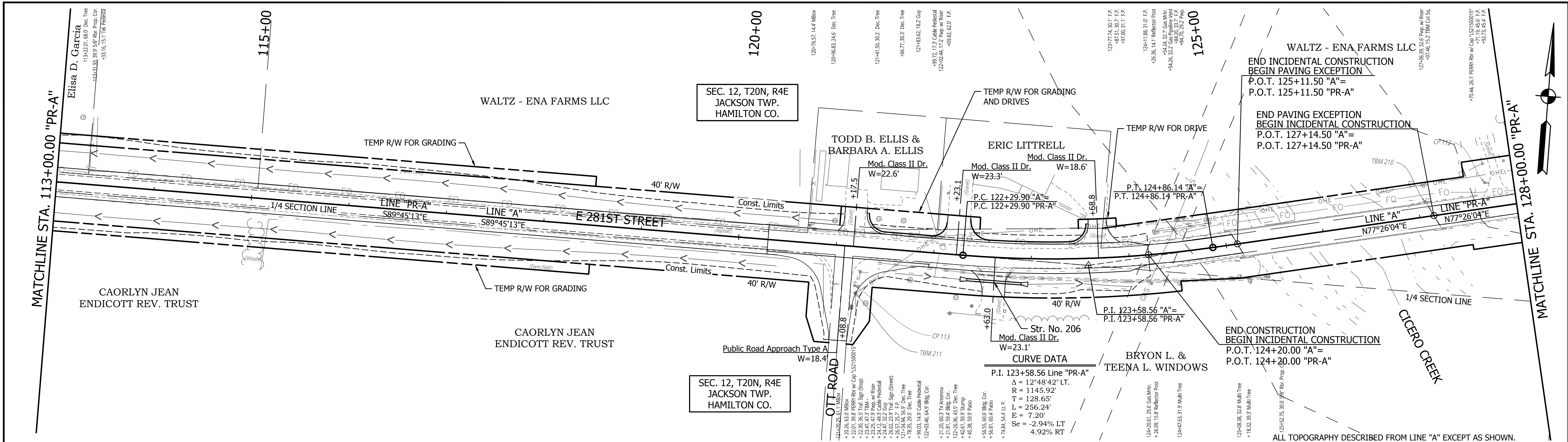


RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: YZ		12/21/2024		DRAWN: YZ	
12/21/2024		CHECKED: RDS		1/9/2025	
CHECKED: RDS		1/9/2025		CHECKED: MRM	
1/9/2025					

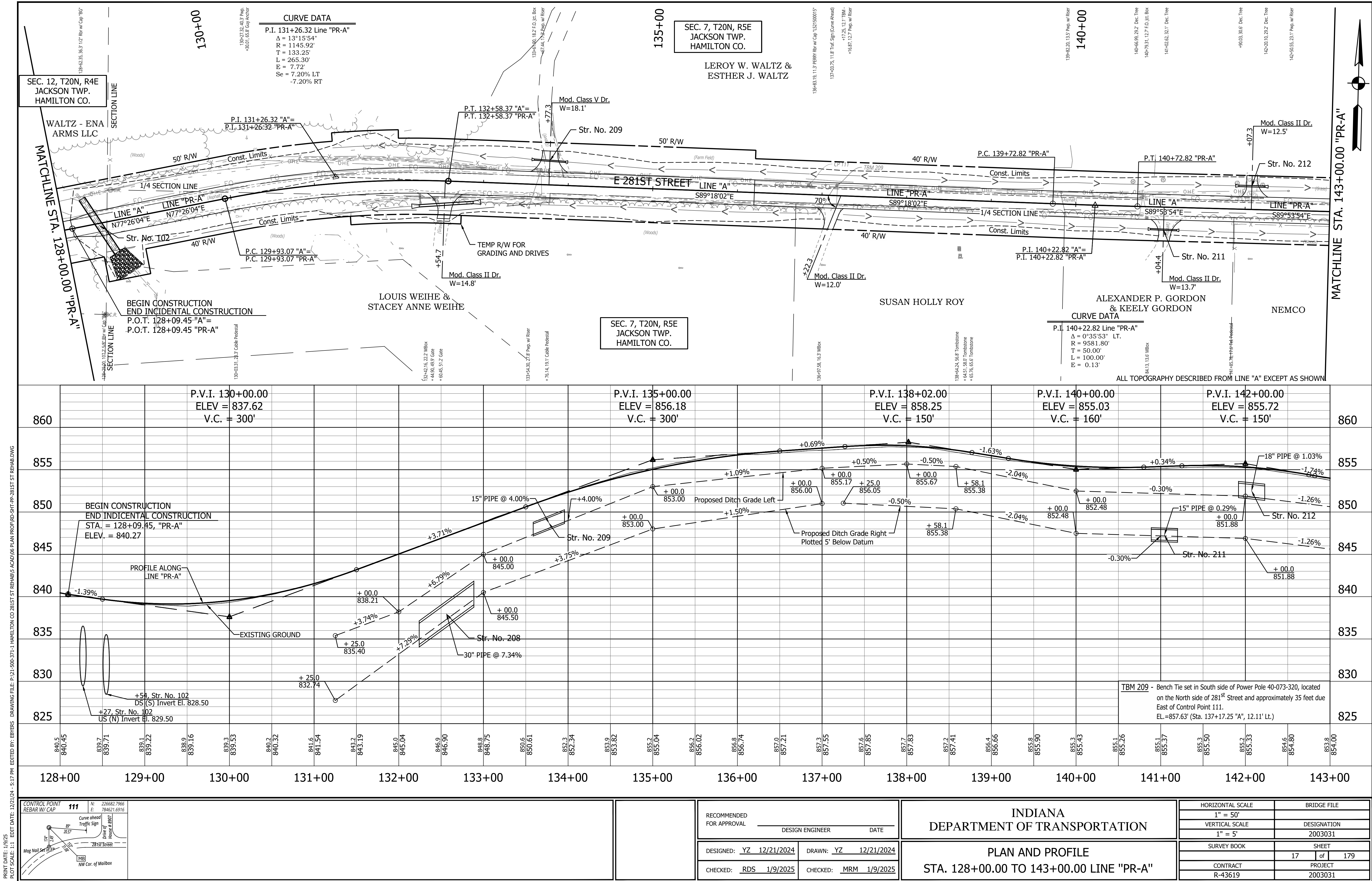
INDIANA DEPARTMENT OF TRANSPORTATION	
PLAN AND PROFILE	
STA. 100+00.00 TO 113+00.00 LINE "PR-A"	

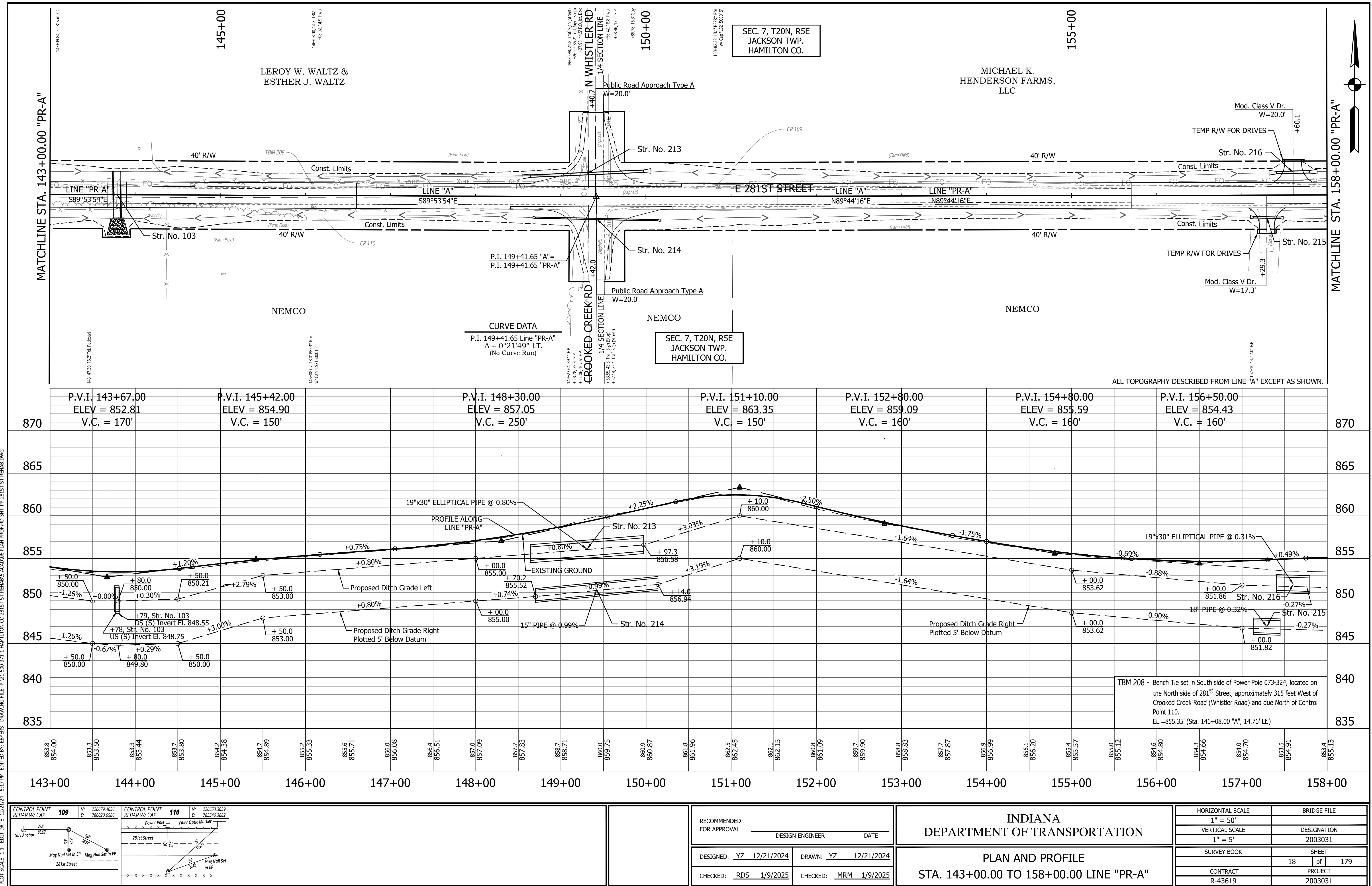
HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	DESIGNATION
VERTICAL SCALE	2003031
1" = 5'	
SURVEY BOOK	SHEET
	15 of 179
CONTRACT	PROJECT
R-43619	2003031

PRINT DATE: 1/9/25
PLOT SCALE: 1"=1' EDIT DATE: 1/9/25 - 11:36 AM EDITED BY: CKANPHAN DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\06 PLAN PROF\RD-SHT-PP-281ST ST REHAB.DWG

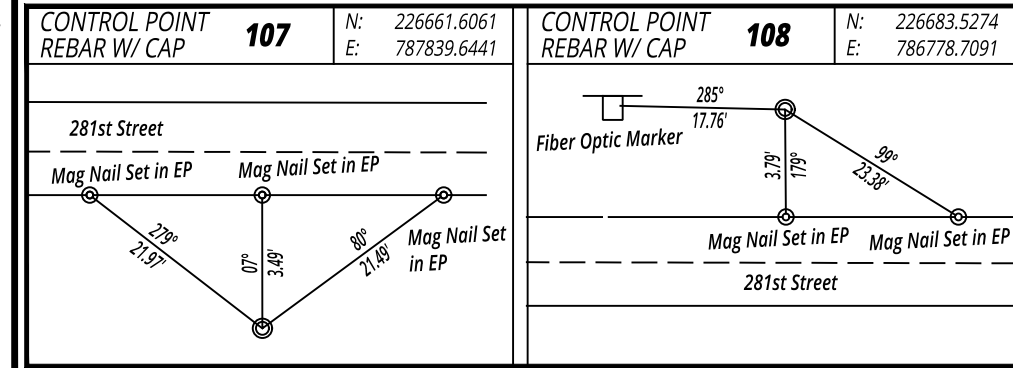
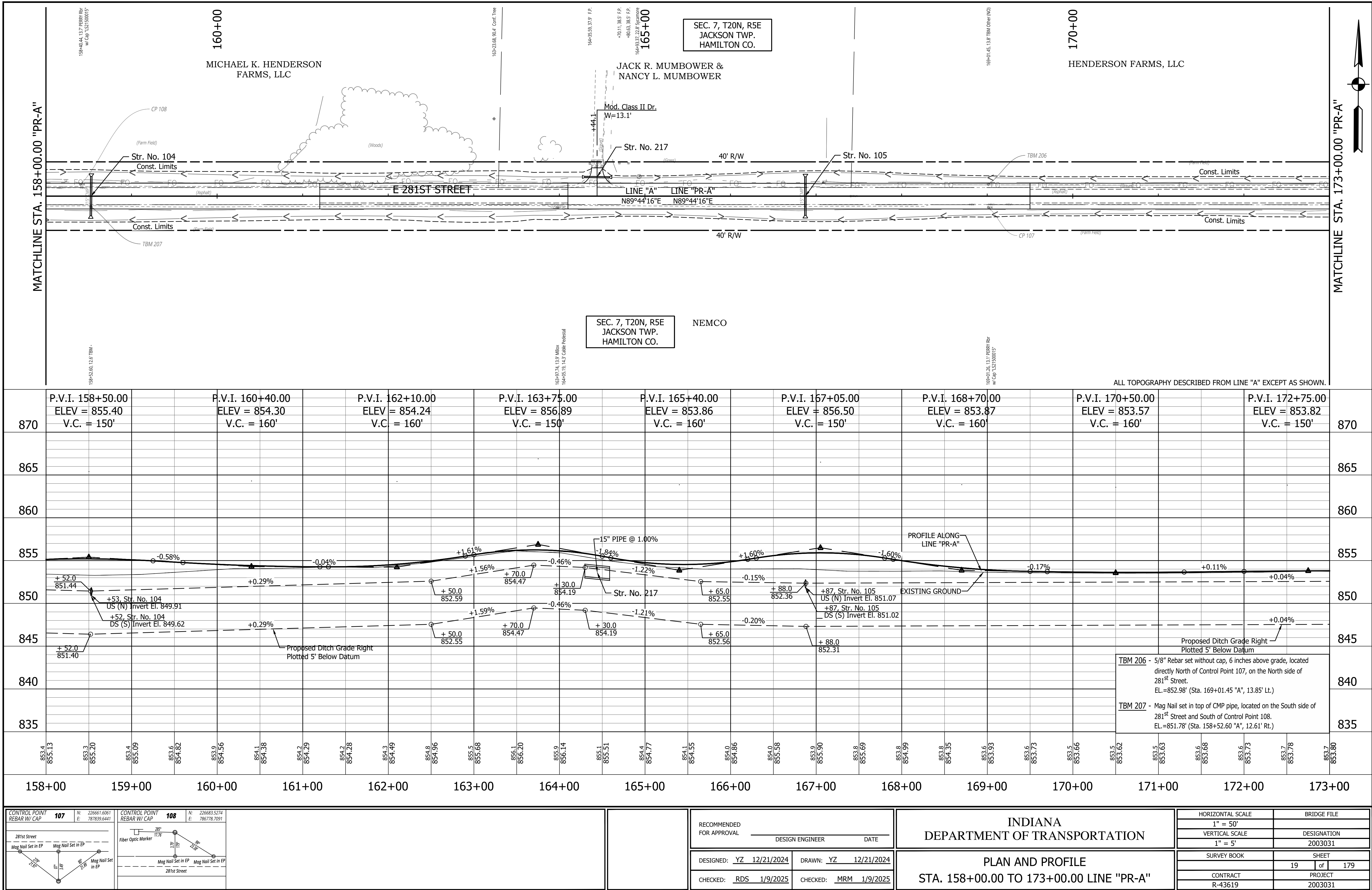


CONTROL POINT 112 REBAR W/ CAP N: 226626.3721 E: 783710.5103		CONTROL POINT 113 REBAR W/ CAP N: 226472.2808 E: 783076.4022	
DESIGNED: YZ 1/9/2025		DRAWN: YZ 1/9/2025	
CHECKED: RDS 1/9/2025		CHECKED: MRM 1/9/2025	
INDIANA DEPARTMENT OF TRANSPORTATION			
PLAN AND PROFILE			
STA. 113+00.00 TO 128+00.00 LINE "PR-A"			
HORIZONTAL SCALE 1" = 50'		BRIDGE FILE	
VERTICAL SCALE 1" = 5'		DESIGNATION 2003031	
SURVEY BOOK		SHEET 16 of 179	
CONTRACT R-43619		PROJECT 2003031	





PRINT DATE: 1/9/25
PLOT SCALE: 1"=1' EDIT DATE: 12/21/24 - 5:17 PM EDITED BY: EYERS DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\ACAD\6 PLAN\PROF\RD-SHT-PP-281ST ST REHAB.DWG

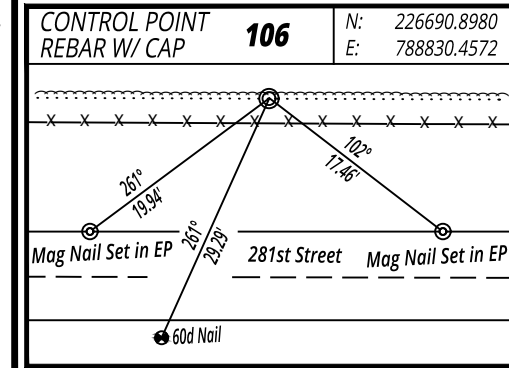
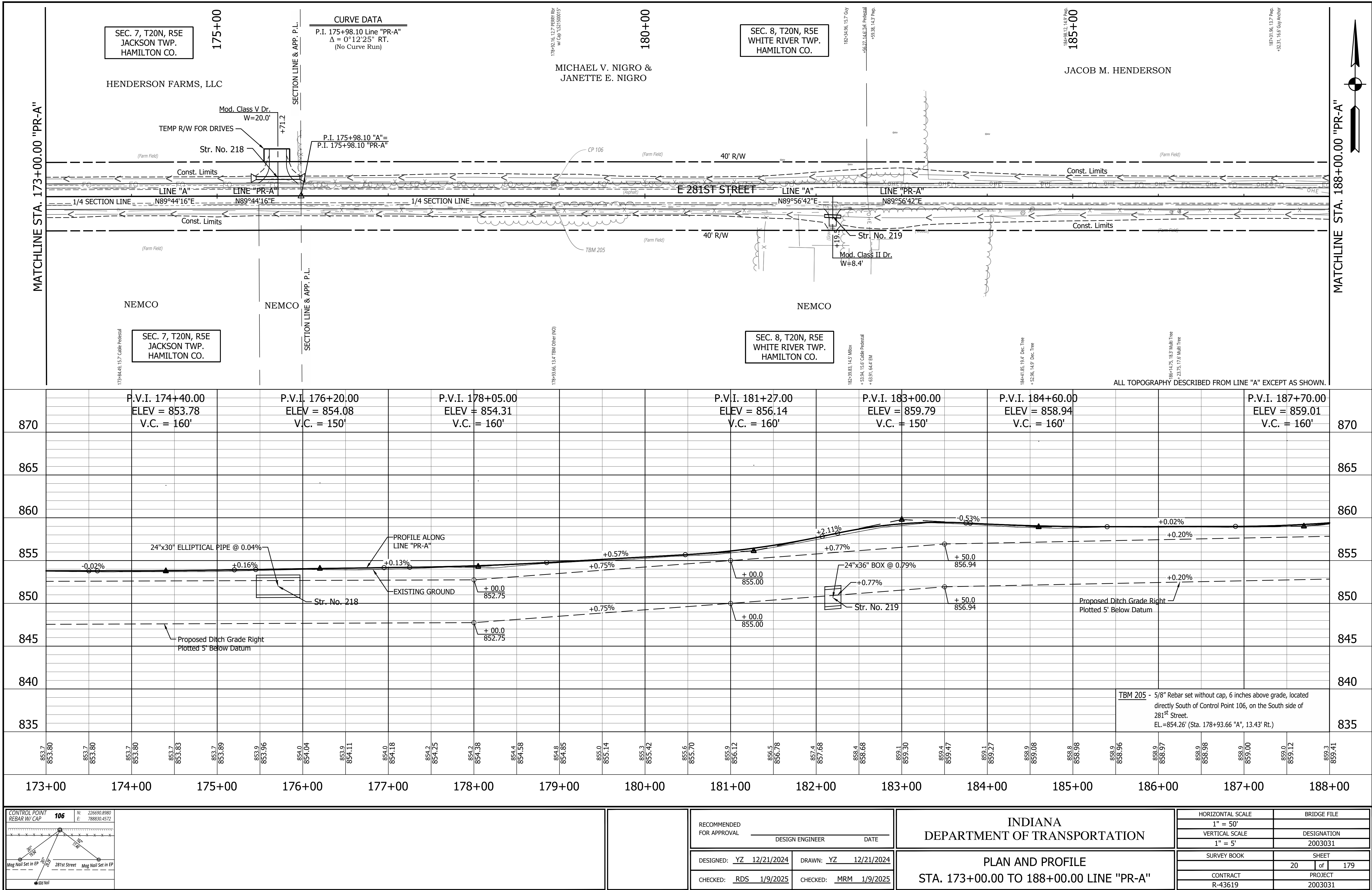


RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: YZ 12/21/2024		DRAWN: YZ 12/21/2024			
CHECKED: RDS 1/9/2025		CHECKED: MRM 1/9/2025			

INDIANA DEPARTMENT OF TRANSPORTATION	
PLAN AND PROFILE STA. 158+00.00 TO 173+00.00 LINE "PR-A"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE	
VERTICAL SCALE 1" = 5'	DESIGNATION 2003031	
SURVEY BOOK	SHEET	
	19	of 179
CONTRACT R-43619	PROJECT 2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1" = 100'
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\ACAD\6 PLAN\PROF\RD-SHT-PP-281ST ST REHAB.DWG
EDIT DATE: 12/21/24 - 5:17 PM
EDITED BY: EVERS

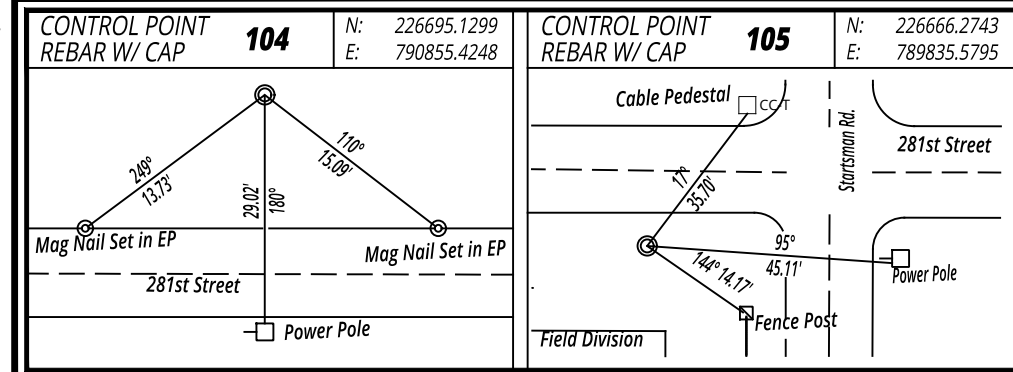
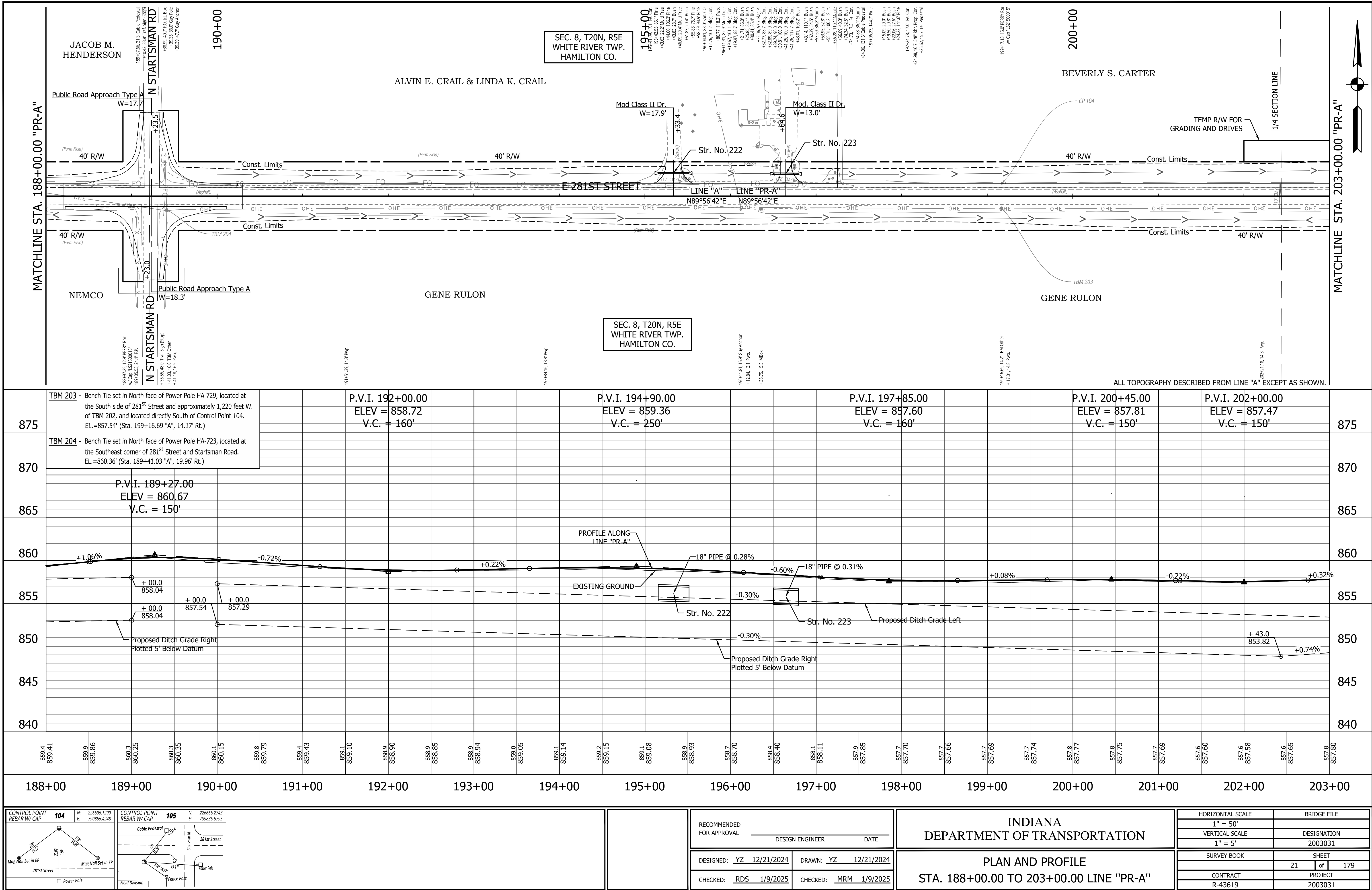


RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: YZ		12/21/2024		DRAWN: YZ	
12/21/2024		CHECKED: RDS		1/9/2025	
CHECKED: RDS		1/9/2025		CHECKED: MRM	
1/9/2025		CHECKED: MRM		1/9/2025	

INDIANA DEPARTMENT OF TRANSPORTATION	
PLAN AND PROFILE	
STA. 173+00.00 TO 188+00.00 LINE "PR-A"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	
VERTICAL SCALE	DESIGNATION
1" = 5'	2003031
SURVEY BOOK	SHEET
	20 of 179
CONTRACT	PROJECT
R-43619	2003031

PRINT DATE: 1/9/25
PLOT SCALE: 1" = 1' EDIT DATE: 12/21/24 - 5:17 PM EDITED BY: EYERS DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\ACAD\6 PLAN\PROF\RD-SHT-PP-281ST ST REHAB.DWG

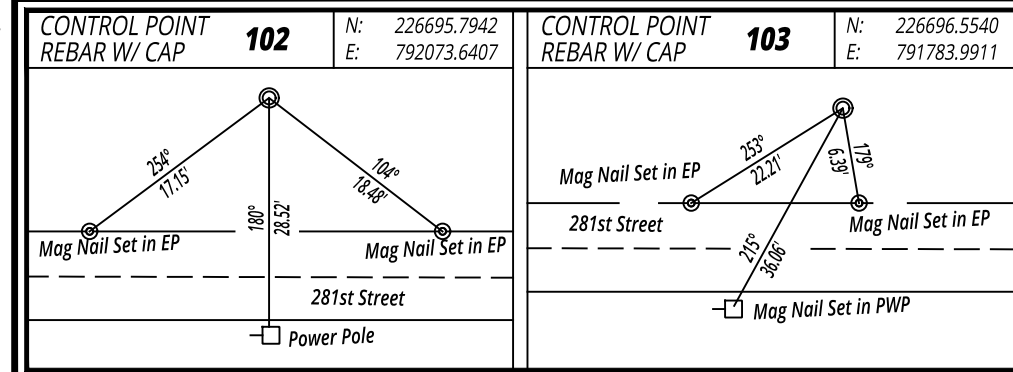
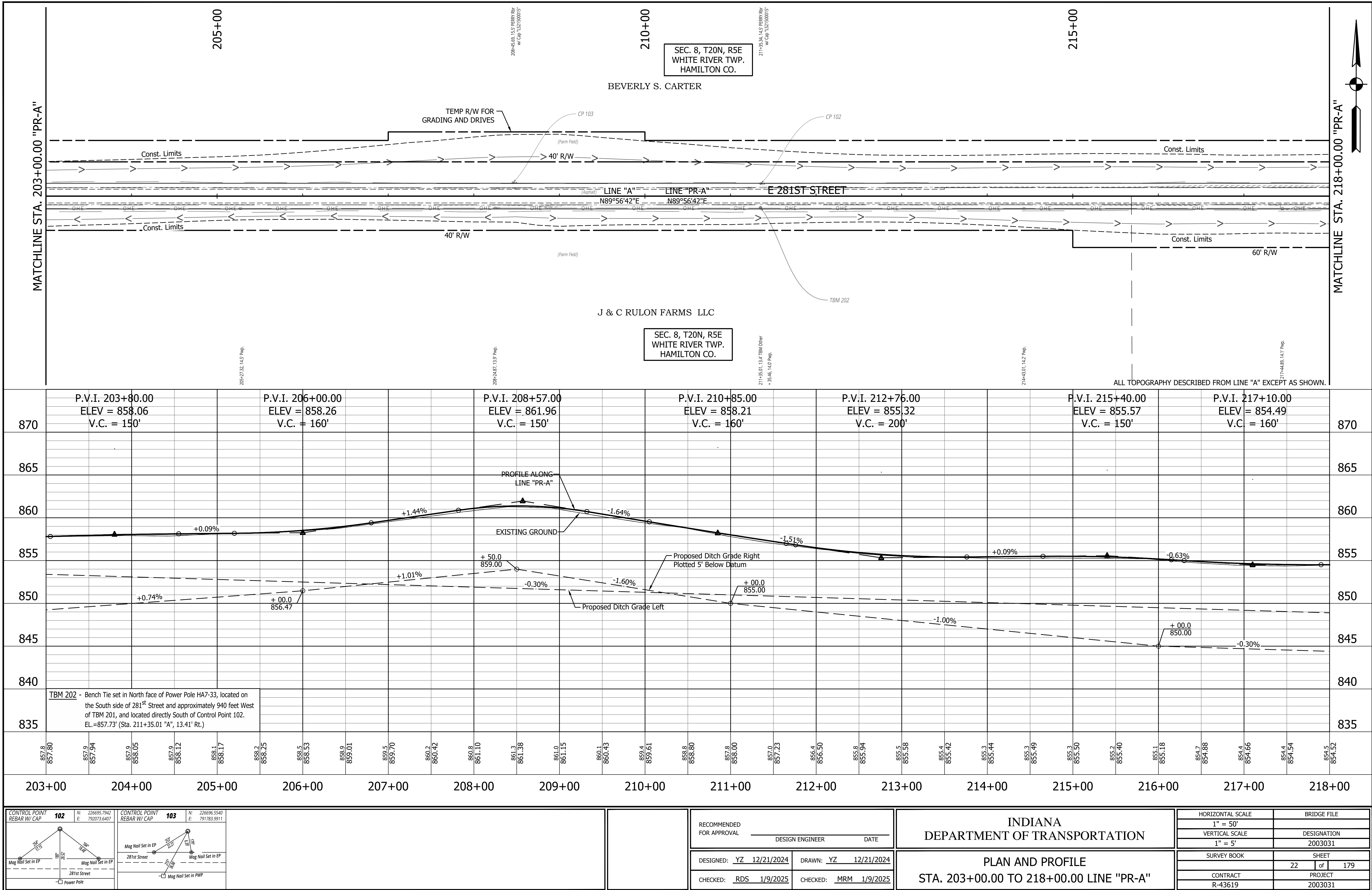


RECOMMENDED FOR APPROVAL	
DESIGNED: YZ 12/21/2024	DRAWN: YZ 12/21/2024
CHECKED: RDS 1/9/2025	CHECKED: MRM 1/9/2025

INDIANA DEPARTMENT OF TRANSPORTATION	
PLAN AND PROFILE	
STA. 188+00.00 TO 203+00.00 LINE "PR-A"	

HORIZONTAL SCALE	
1" = 50'	
VERTICAL SCALE	
1" = 5'	
SURVEY BOOK	
21 of 179	
CONTRACT	
R-43619	
BRIDGE FILE	
DESIGNATION	
2003031	
PROJECT	
2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1"=1' EDIT DATE: 12/21/24 - 5:17 PM EDITED BY: EVERS DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\ACAD\6 PLAN\PROF\RD-SHT-PP-281ST ST REHAB.DWG

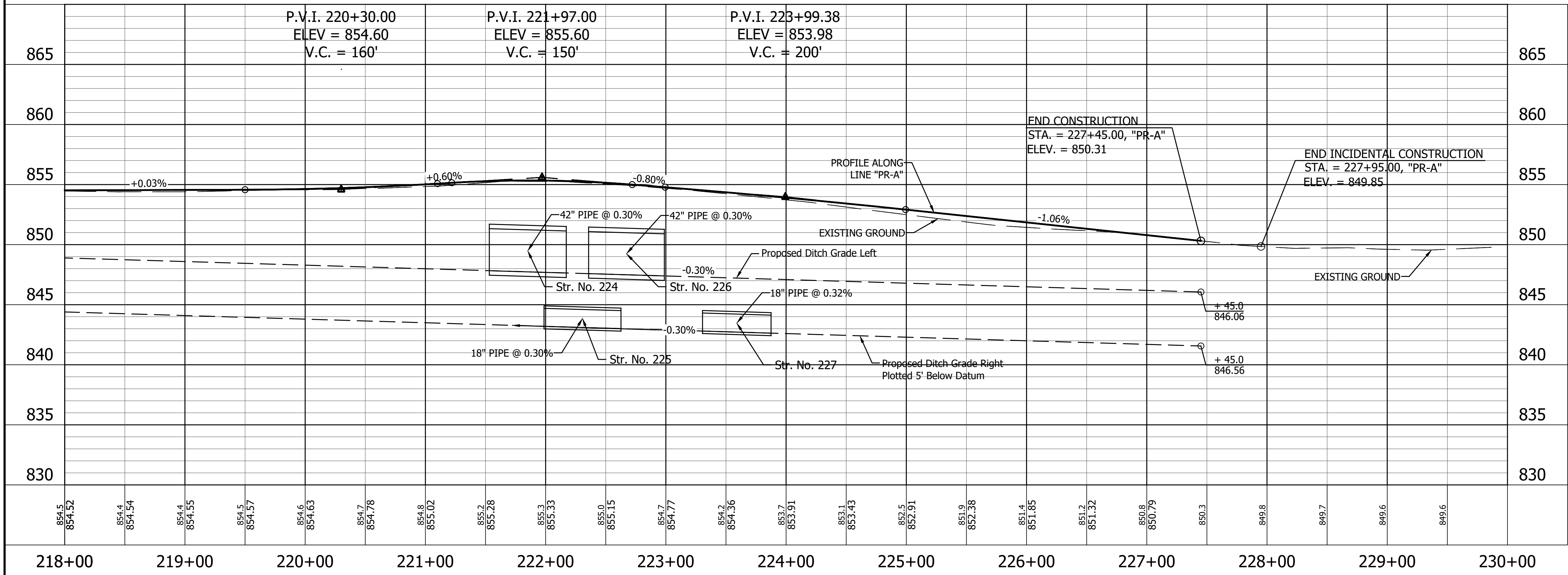
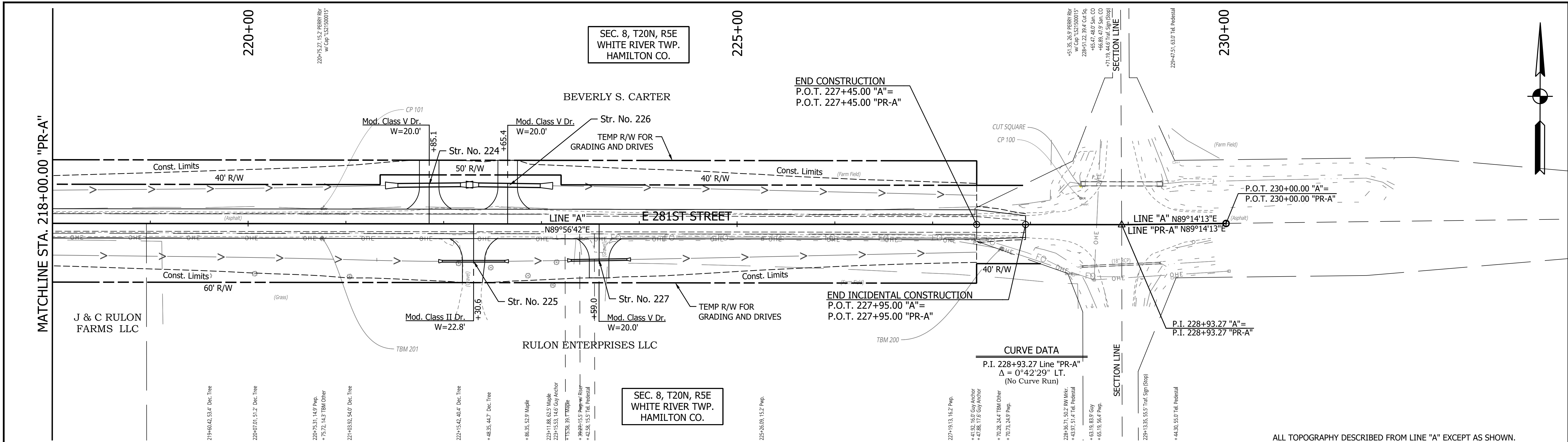


RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: YZ		12/21/2024		DRAWN: YZ	
12/21/2024		CHECKED: RDS		1/9/2025	
1/9/2025		CHECKED: MRM		1/9/2025	

INDIANA DEPARTMENT OF TRANSPORTATION	
PLAN AND PROFILE	
STA. 203+00.00 TO 218+00.00 LINE "PR-A"	

HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 2003031
SURVEY BOOK	SHEET 22 of 179
CONTRACT R-43619	PROJECT 2003031

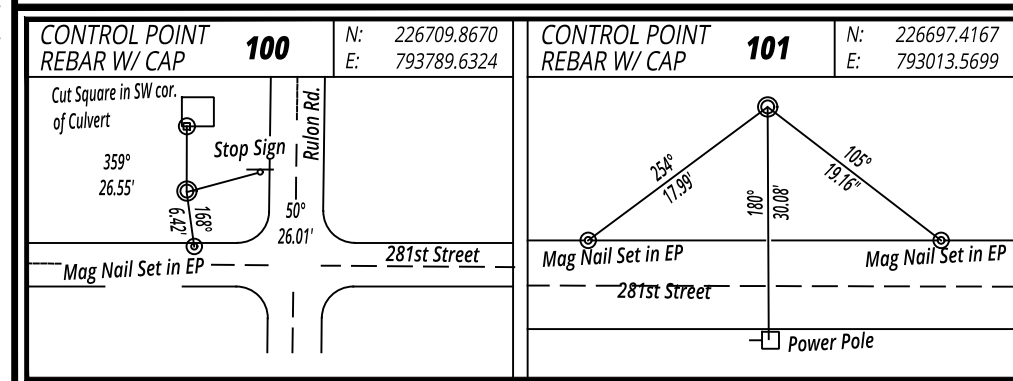
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PLOT SCALE: 1"=1'
EDIT DATE: 12/21/24 - 5:17 PM
EDITED BY: EYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\ACAD\6 PLAN\PROF\RD-SHT-PP-281ST ST REHAB.DWG



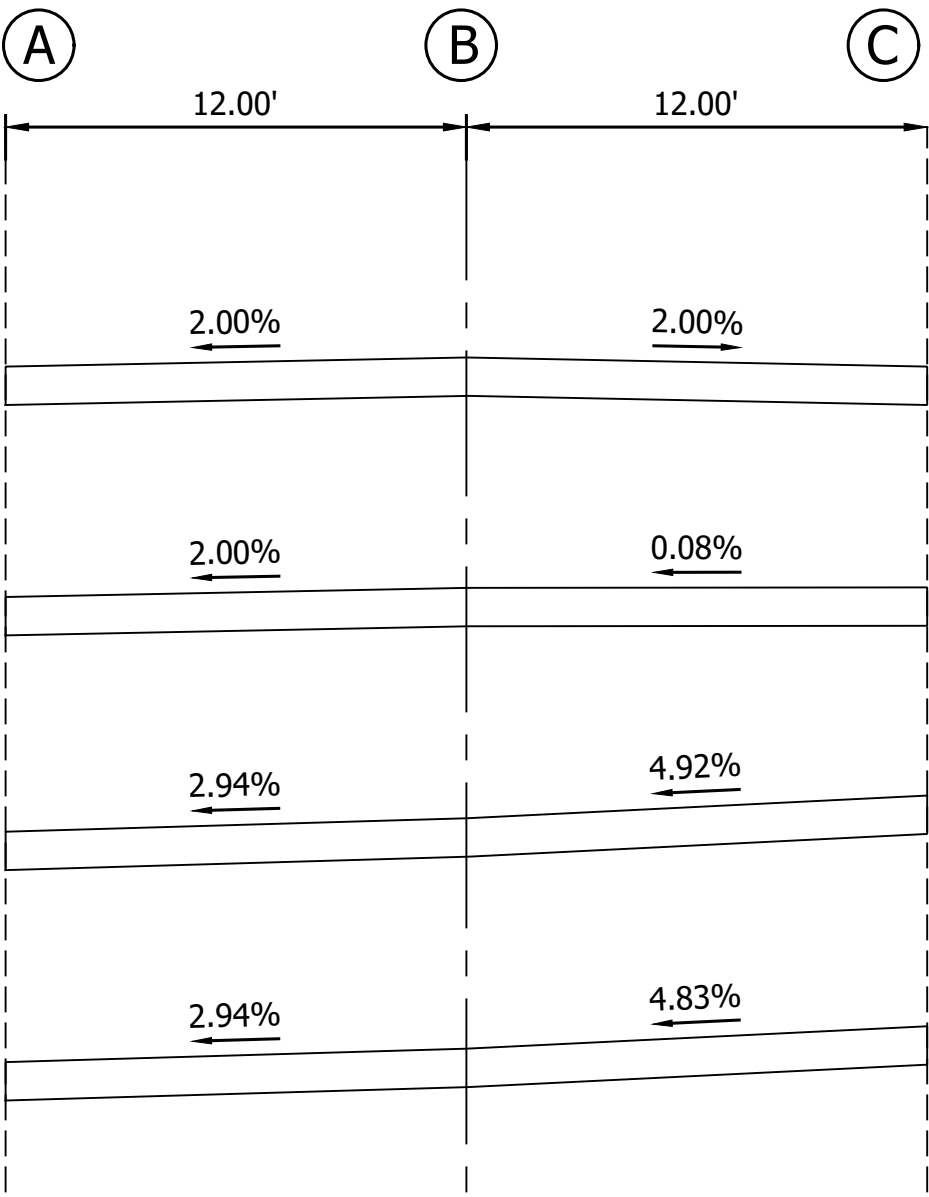
ALL TOPOGRAPHY DESCRIBED FROM LINE "A" EXCEPT AS SHOWN.

TBM 200 - Bench Tie set in North face of Power Pole HA7-62 at the Southwest Corner of Rulon Road and State Road 19.
EL.=850.31' (Sta. 227+70.28 "A", 24.39' Rt.)

TBM 201 - Bench Tie set in North face of Power Pole HA7-36 F40 on the South side of 281st Street and approximately 695 feet West of TBM 200, and located directly South of Control Point 101.
EL.=855.01' (Sta. 220+75.72 "A", 14.30' Rt.)



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: YZ 12/21/2024		DRAWN: YZ 12/21/2024			
CHECKED: RDS 1/9/2025		CHECKED: MRM 1/9/2025			
INDIANA DEPARTMENT OF TRANSPORTATION					
PLAN AND PROFILE					
STA. 218+00.00 TO 230+00.00 LINE "PR-A"					
HORIZONTAL SCALE		BRIDGE FILE			
1" = 50'					
VERTICAL SCALE		DESIGNATION			
1" = 5'		2003031			
SURVEY BOOK		SHEET			
		23 of 179			
CONTRACT		PROJECT			
R-43619		2003031			

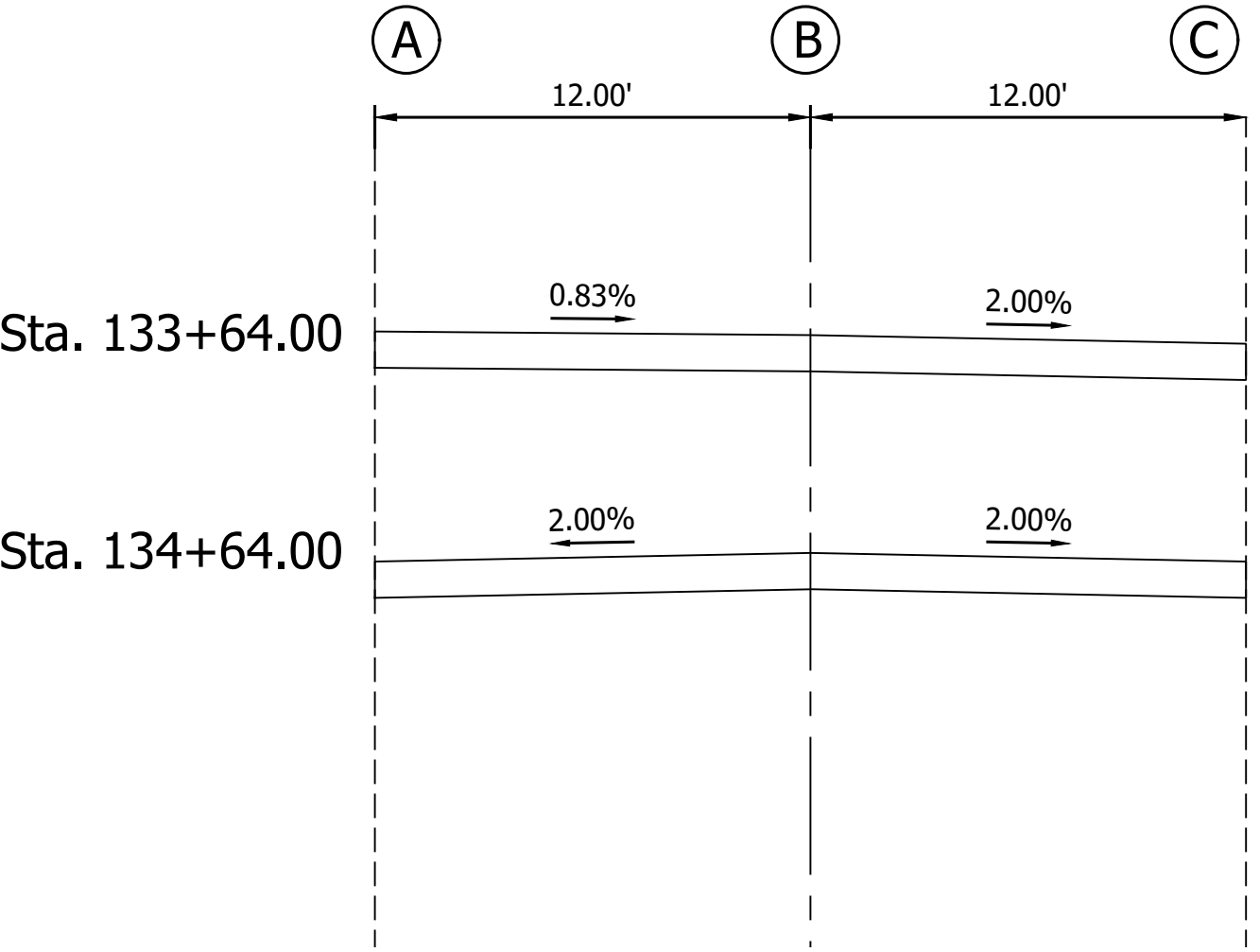
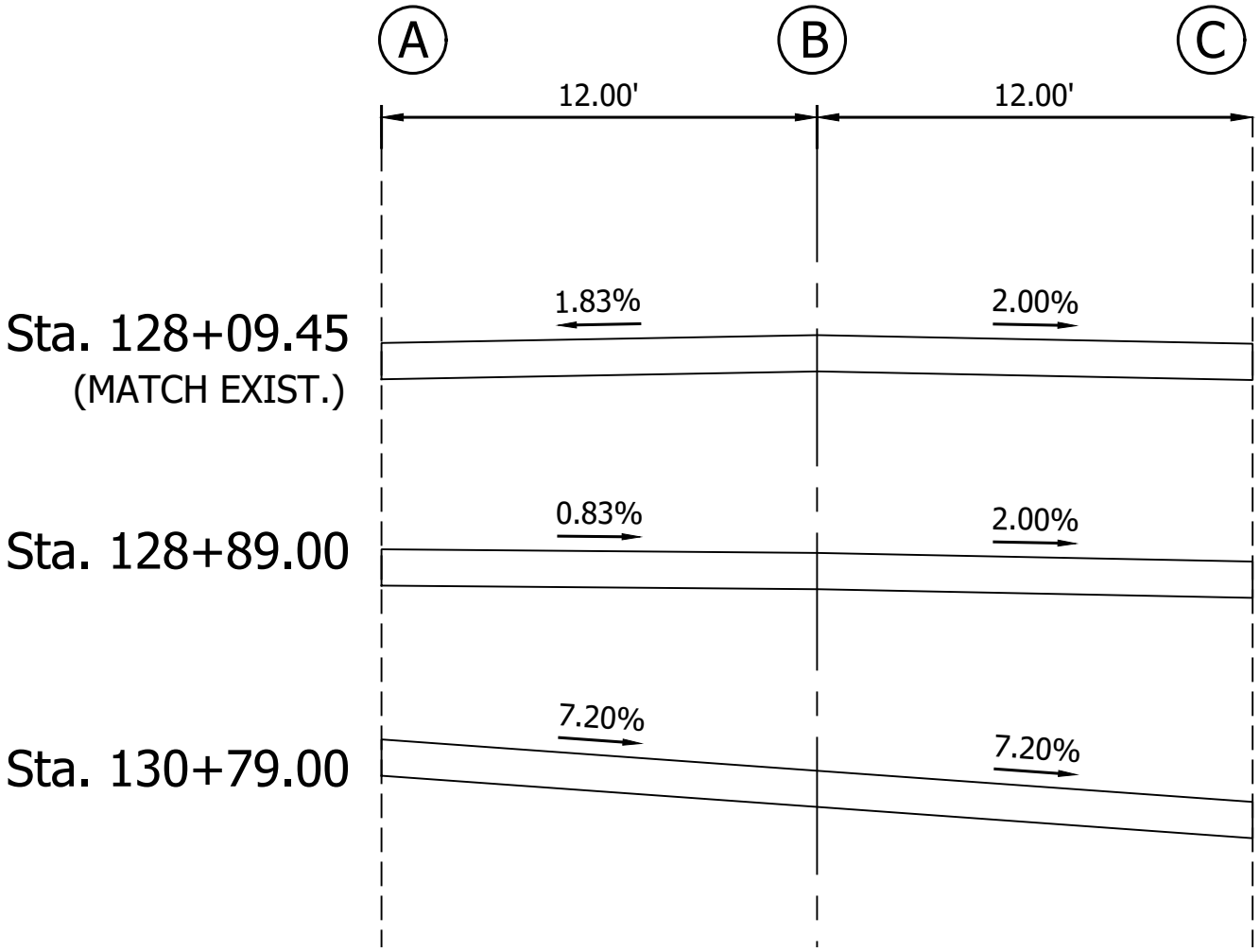
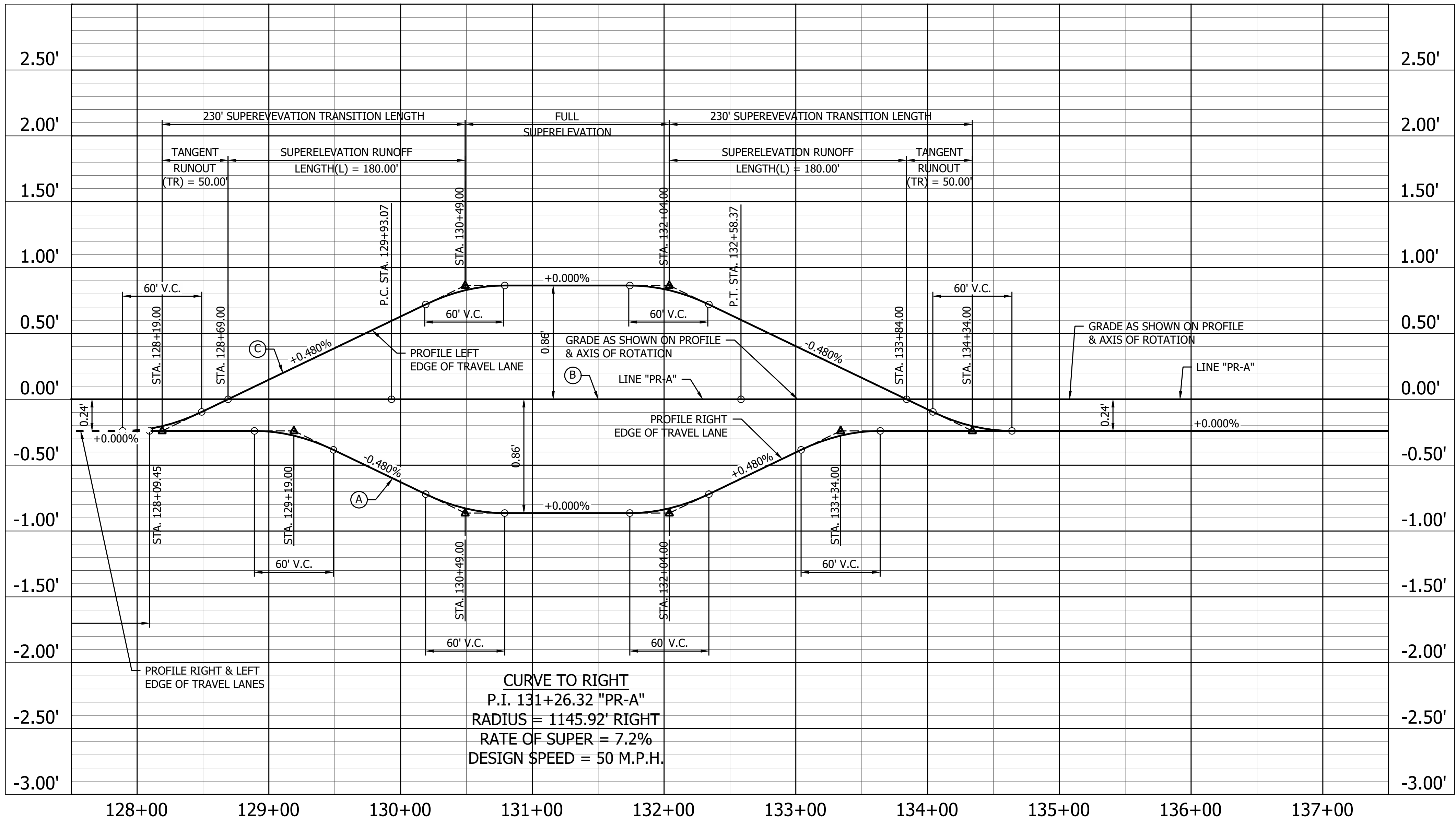


INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERELEVATIONS
P.I. 123+58.56 "PR-A"

HORIZONTAL SCALE	BRIDGE FILE		
VERTICAL SCALE	DESIGNATION		
	2003031		
SURVEY BOOK	SHEET		
	24	of	179
CONTRACT	PROJECT		
R-43619	2003031		

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 9/25/24 - 1:15 PM
EDITED BY: EKOWALSKI
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\ACAD\07 CONST DTL\8T_SE HAMILTON CO 281ST.DWG



		RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION SUPERELEVATIONS P.I. 131+26.32 "PR-A"		HORIZONTAL SCALE	BRIDGE FILE
						VERTICAL SCALE	DESIGNATION
						SURVEY BOOK	SHEET
						CONTRACT	PROJECT
DESIGNED: YZ 9/25/2024		DRAWN: MRM 9/25/2024				25	of 179
CHECKED: RDS 1/9/2025		CHECKED: YZ 1/9/2025				R-43619	2003031

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB'S ACAD\07 CONST DTL\RD-CD-PR-A_281ST ST_05-31-23.DWG
EDITED BY: BEYERS
DATE: 12/20/24 - 12:10 AM

100+00

105+00

BEGIN CONSTRUCTION
P.O.T. 102+05.82 "A"=
P.O.T. 102+05.82 "PR-A"

NW Corner NE 1/4
Sec. 12, T. 20 N., R. 4 E.
(Harrison Monument - Flush)

APP. EXIST. R/W & P.L.

P.O.T. 100+00.00 "A"=
P.O.T. 100+00.00 "PR-A"

LINE "A"
S89°45'41"E

LINE "PR-A"
S89°45'41"E

APP. EXIST. R/W & P.L.

CURVE DATA

P.I. 101+69.57 Line "PR-A"
 $\Delta = 0^{\circ}00'28"$ RT.
(No Curve Run)

STATE ROAD 19 (CICERO RD)

1/4 SECTION LINE

1/4 SECTION LINE

12

+00
110'

+28
110'

+01
100'

+30
100'

+62
40'

+95.0

+52
40'

+23.1

Str. No. 100
122 Lft. of 21" Pipe
with 2 End Sections
Req'd.

CP 115

E 281ST STREET

APP. EXIST. R/W & P.L.

Const. Limits

40' R/W

(Woods)

(Farm Field)

MATCHLINE STA. 105+60.00 "PR-A"

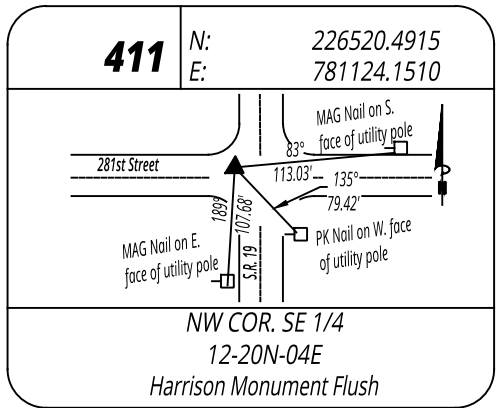
LEGEND

- (C) PCCP for Approaches, 6 in, on
Dense Graded Subbase, 6 in, on
Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
- (Cl) Compacted Aggregate No. 53
- (D) HMA for Approaches, Type B
- (K) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on
275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum,
or thickness necessary to match adjacent pavement) on
Subgrade Treatment, Type IC

- (K1) HMA for Structure Installation, Type B Consisting of:
440 LB/SYD HMA Intermediate, Type B, on
660 LB/SYD HMA Base, Type B, (minimum, or thickness
necessary to match adjacent pavement) on
Subgrade Treatment, Type IC
- (R) HMA Milling & Overlay Consisting of:
Milling, Profile
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm
- (S) Sawcut

- (W) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on
Widening with HMA Type B Consisting of:
275 LB/SYD HMA Intermediate, Type B, on
330 LB/SYD HMA Base, Type B, on
330 LB/SYD HMA Base, Type B, (minimum thickness
necessary to match adjacent pavement) on
Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete

Wetland Delineation



RECOMMENDED
FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: MJR 12/20/2024

DRAWN: MJR 12/20/2024

CHECKED: NDH 1/9/2025

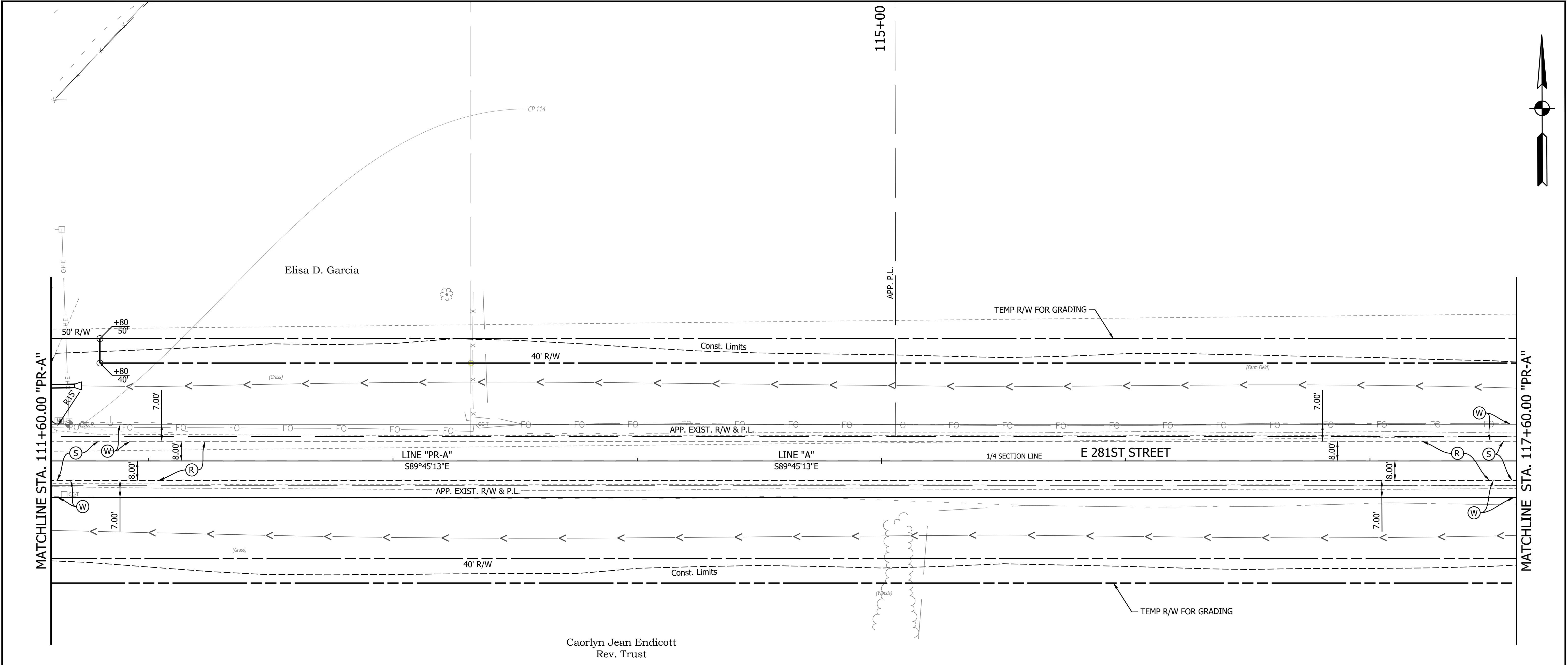
CHECKED: NDH 1/9/2025

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
STA. 100+00.00 TO 105+60.00 LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	2003031
SURVEY BOOK	SHEET
	26 of 179
CONTRACT	PROJECT
R-43619	2003031

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
DATE: 12/20/24 - 12:10 AM
EDITED BY: EBYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\ACAD\7 CONST DTL\RD-CD-PR-A_281ST ST_05-31-23.DWG



LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)

(Cl) Compacted Aggregate No. 53

(D) HMA for Approaches, Type B

(K) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on
275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (K1) HMA for Structure Installation, Type B Consisting of:
440 LB/SYD HMA Intermediate, Type B, on
660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC

(R) HMA Milling & Overlay Consisting of:
Milling, Profile
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm

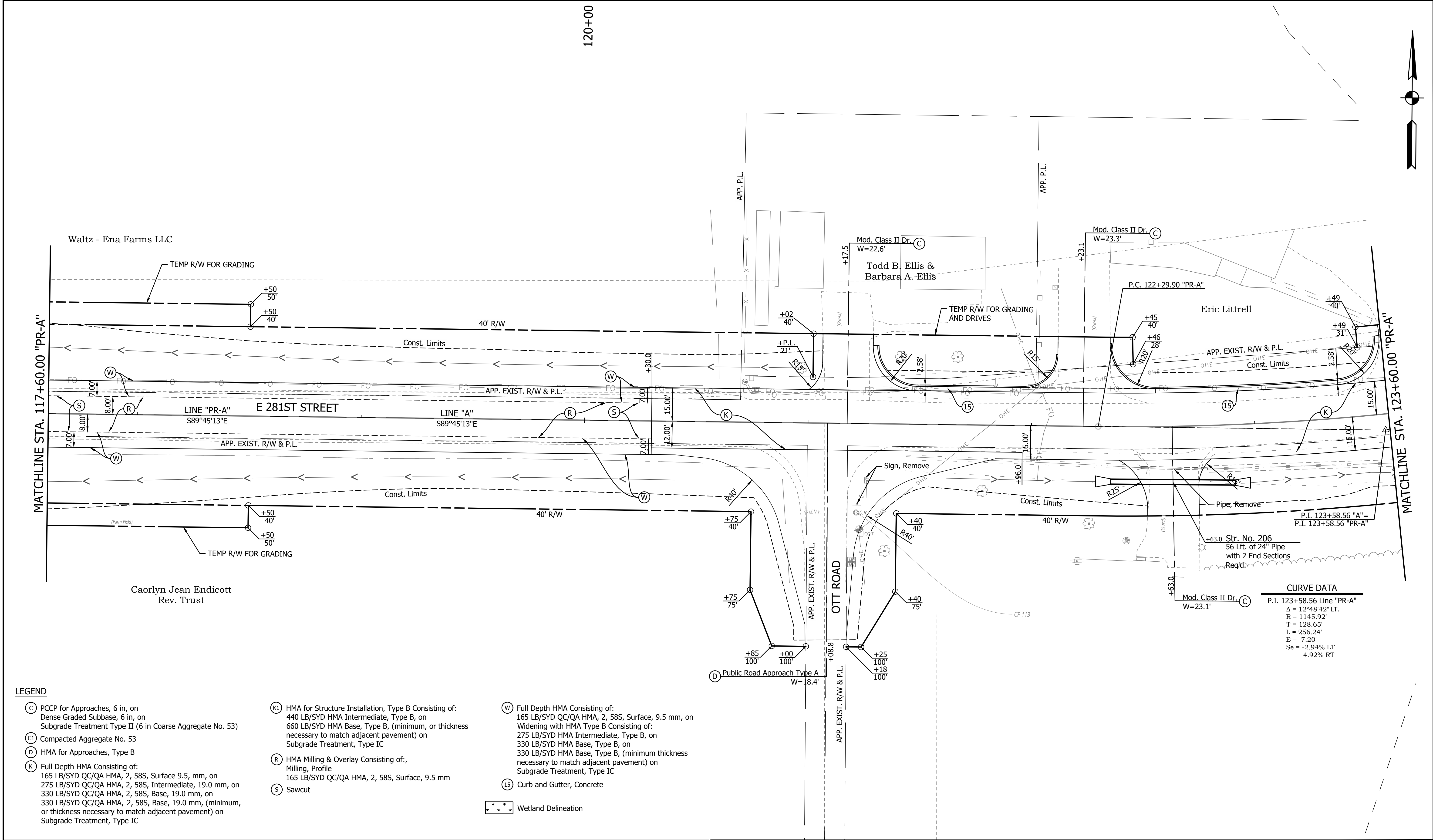
(S) Sawcut
- (W) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of:
275 LB/SYD HMA Intermediate, Type B, on
330 LB/SYD HMA Base, Type B, on
330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC

(15) Curb and Gutter, Concrete
- Wetland Delineation

		RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE			
		DESIGN ENGINEER				1" = 20'					
		DATE		VERTICAL SCALE		DESIGNATION					
		N/A		N/A		2003031					
		SHEET		SHEET							
DESIGNED: MJR 12/20/2024		DRAWN: MJR 12/20/2024		CONSTRUCTION DETAILS STA. 111+60.00 TO 117+60.00 LINE "PR-A"		28		of		179	
CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025				CONTRACT		PROJECT			
						R-43619				2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
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EDITED BY: BEYERS
DATE: 12/20/24 - 12:10 AM

120+00



LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)

(Cl) Compacted Aggregate No. 53

(D) HMA for Approaches, Type B

(K) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (K1) HMA for Structure Installation, Type B Consisting of: 440 LB/SYD HMA Intermediate, Type B, on 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC

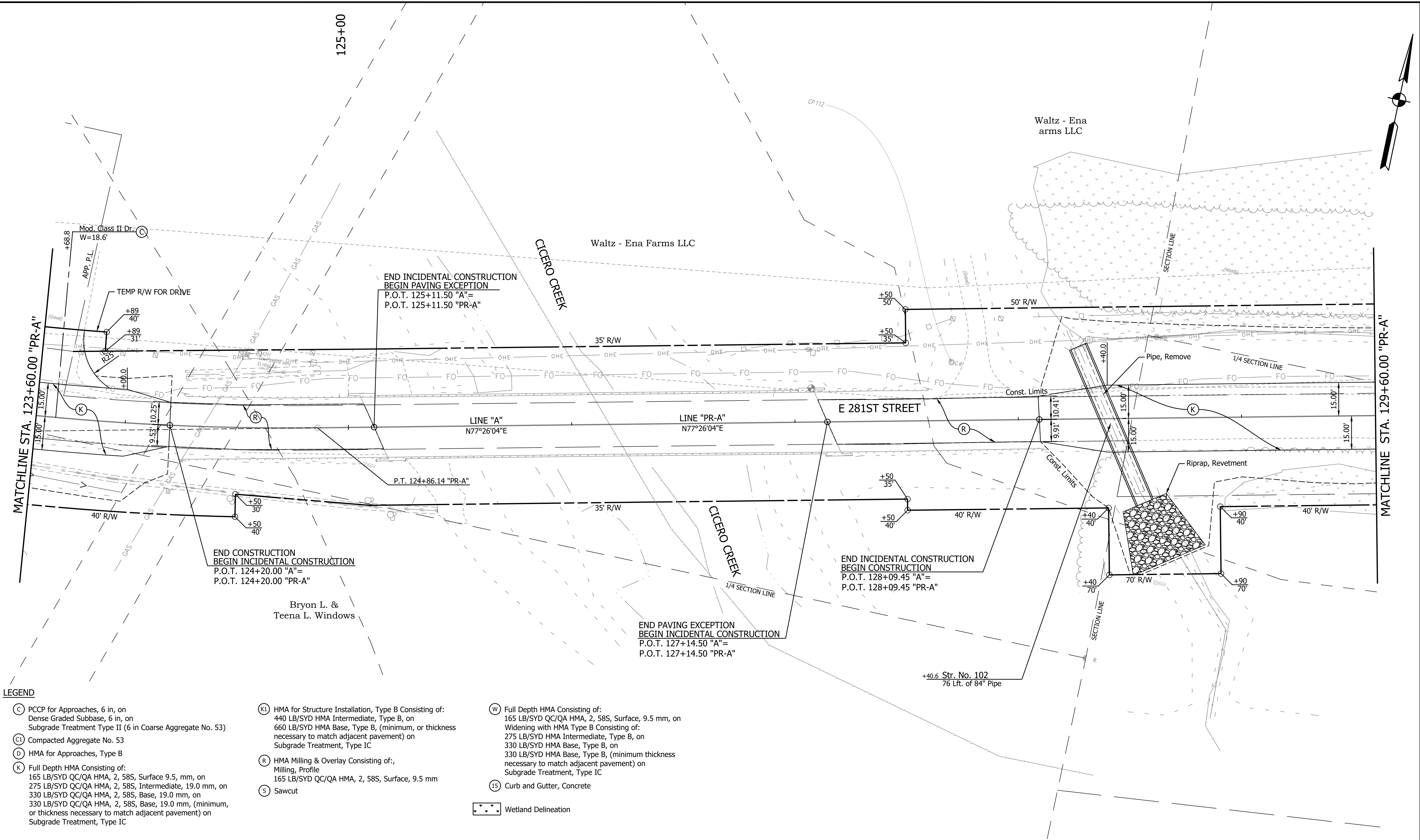
(R) HMA Milling & Overlay Consisting of:, Milling, Profile 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm

(S) Sawcut
- (W) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of: 275 LB/SYD HMA Intermediate, Type B, on 330 LB/SYD HMA Base, Type B, on 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC

(15) Curb and Gutter, Concrete
- Wetland Delineation

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION				HORIZONTAL SCALE		BRIDGE FILE					
										1" = 20'							
										VERTICAL SCALE		DESIGNATION					
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DESIGNED: MJR 12/20/2024		DRAWN: MJR 12/20/2024		CONSTRUCTION DETAILS STA. 117+60.00 TO 123+60.00 LINE "PR-A"								SURVEY BOOK		SHEET			
												29		of		179	
CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025										CONTRACT		PROJECT			
												R-43619		2003031			

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
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EDIT DATE: 12/20/24 - 12:10 AM
EDITED BY: EBYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB'S ACAD\07 CONST DTL\RD-CD-PR-A_281ST ST_05-31-23.DWG



LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)

(Cl) Compacted Aggregate No. 53

(D) HMA for Approaches, Type B

(K) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on
275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (K1) HMA for Structure Installation, Type B Consisting of:
440 LB/SYD HMA Intermediate, Type B, on
660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC

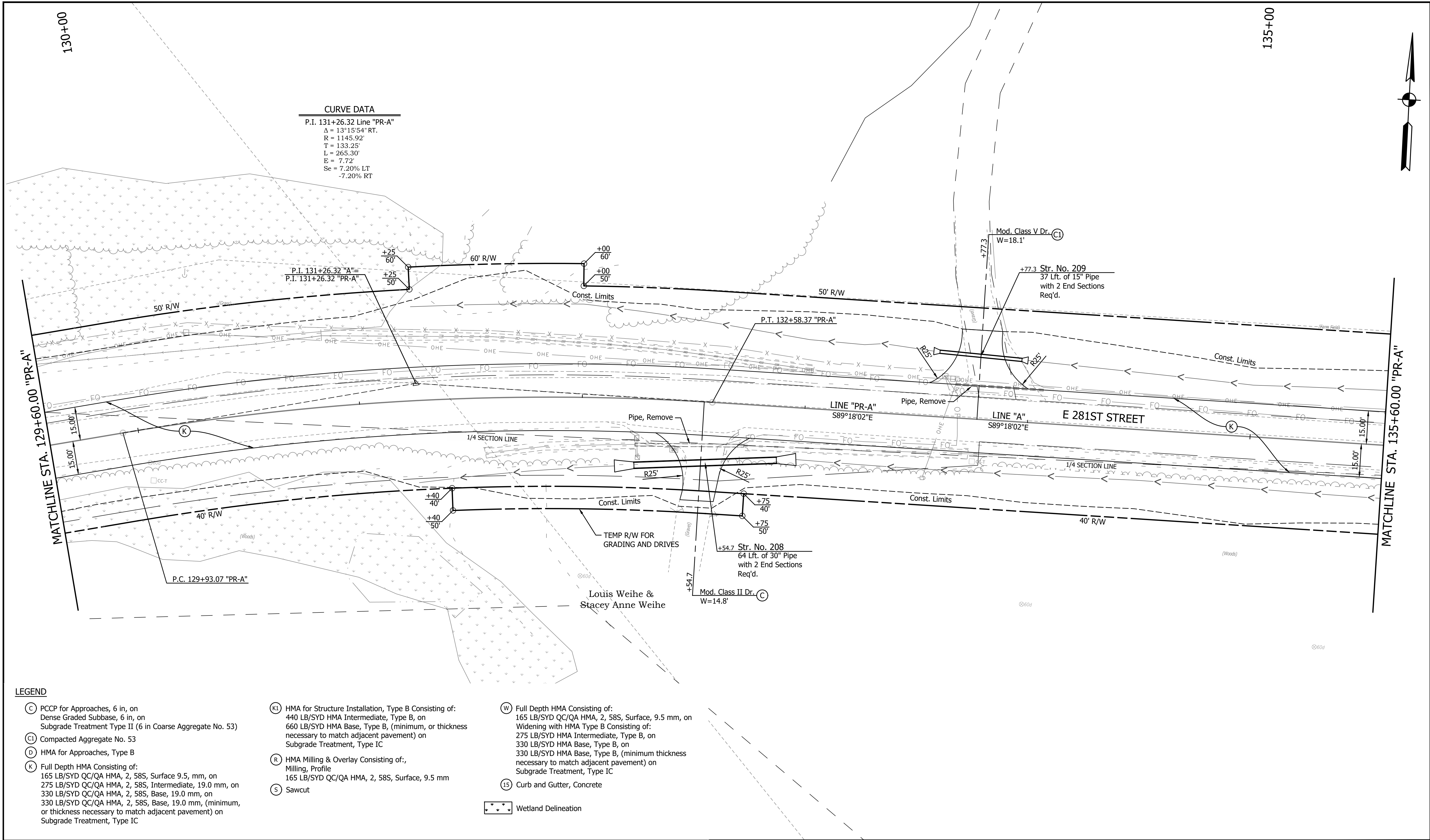
(R) HMA Milling & Overlay Consisting of:,
Milling, Profile
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm

(S) Sawcut
- (W) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of:
275 LB/SYD HMA Intermediate, Type B, on
330 LB/SYD HMA Base, Type B, on
330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC

(15) Curb and Gutter, Concrete
- Wetland Delineation

		RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
		DESIGN ENGINEER				1" = 20'			
		DATE		VERTICAL SCALE		DESIGNATION			
		DESIGNED: MJR 12/20/2024		DRAWN: MJR 12/20/2024		N/A		2003031	
CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025		CONSTRUCTION DETAILS STA. 123+60.00 TO 129+60.00 LINE "PR-A"		SURVEY BOOK		SHEET	
						30		of 179	
						CONTRACT		PROJECT	
						R-43619		2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
DATE: 12/20/24 - 12:10 AM
EDITED BY: EBYERS
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		RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
										1" = 20'			
										VERTICAL SCALE		DESIGNATION	
										N/A		2003031	
										SURVEY BOOK		SHEET	
												31 of 179	
										CONTRACT		PROJECT	
										R-43619		2003031	

DESIGNED: MJR 12/20/2024		DRAWN: MJR 12/20/2024	
CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025	

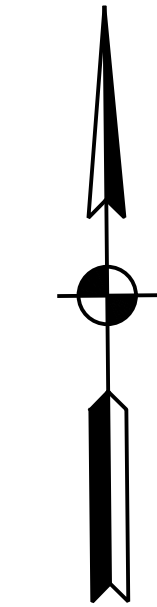
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PRINT DATE: 1/9/25
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DATE: 12/20/24 - 12:10 AM
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DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\ACAD\7 CONST DTL\RD-CD-PR-A_281ST ST_05-31-23.DWG

Leroy W. Waltz &
Esther J. Waltz

MATCHLINE STA. 135+60.00 "PR-A"

140+00



MATCHLINE STA. 141+60.00 "PR-A"

LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
- (Cl) Compacted Aggregate No. 53
- (D) HMA for Approaches, Type B
- (K) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC

- (KI) HMA for Structure Installation, Type B Consisting of: 440 LB/SYD HMA Intermediate, Type B, on 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (R) HMA Milling & Overlay Consisting of:, Milling, Profile 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm
- (S) Sawcut

- (W) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of: 275 LB/SYD HMA Intermediate, Type B, on 330 LB/SYD HMA Base, Type B, on 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete

Wetland Delineation

Susan Holly Roy

CURVE DATA

P.I. 140+22.82 Line "PR-A"
 $\Delta = 0^\circ 35' 53"$ LT.
 $R = 9581.80'$
 $T = 50.00'$
 $L = 100.00'$
 $E = 0.13'$

Alexander P. Gordon &
Keely Gordon

+04.4 Str. No. 211
31 Lft. of 15" Pipe
with 2 End Sections
Req'd.

Mod. Class II Dr.
W=13.7'

RECOMMENDED
FOR APPROVAL

DESIGN ENGINEER DATE

DESIGNED: MJR 12/20/2024

DRAWN: MJR 12/20/2024

CHECKED: NDH 1/9/2025

CHECKED: NDH 1/9/2025

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
STA. 135+60.00 TO 141+60.00 LINE "PR-A"

HORIZONTAL SCALE

1" = 20'

VERTICAL SCALE

N/A

SURVEY BOOK

CONTRACT

R-43619

BRIDGE FILE

DESIGNATION

2003031

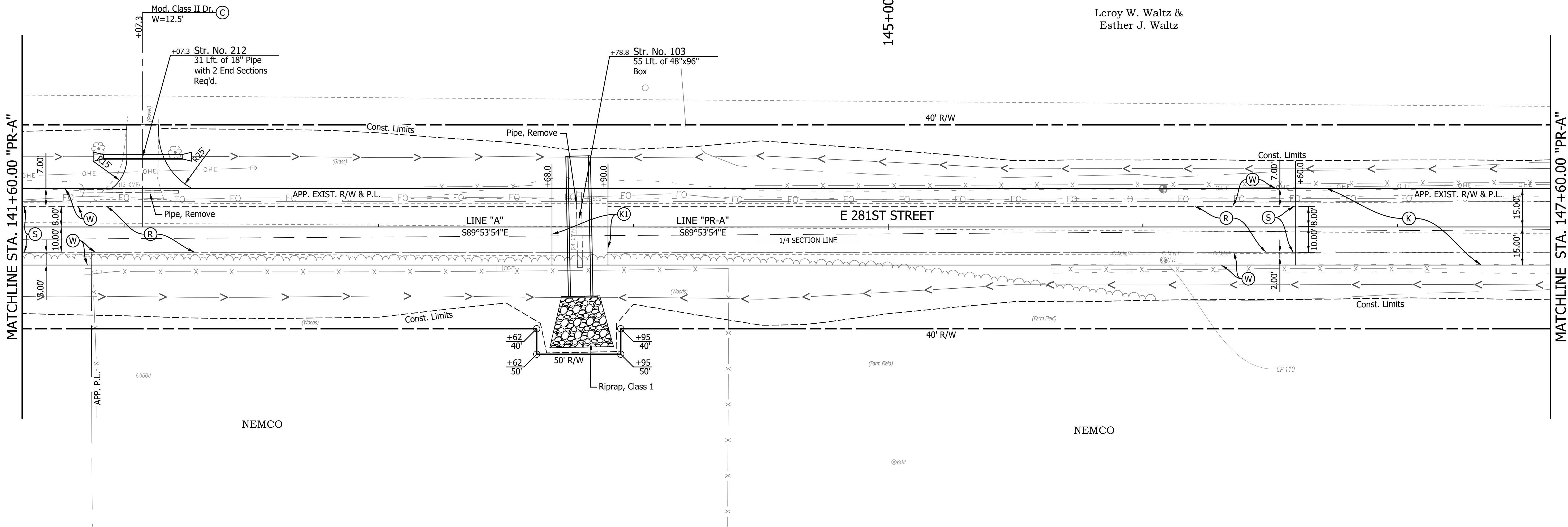
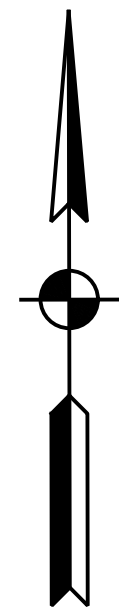
SHEET

32 of 179

PROJECT

2003031

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
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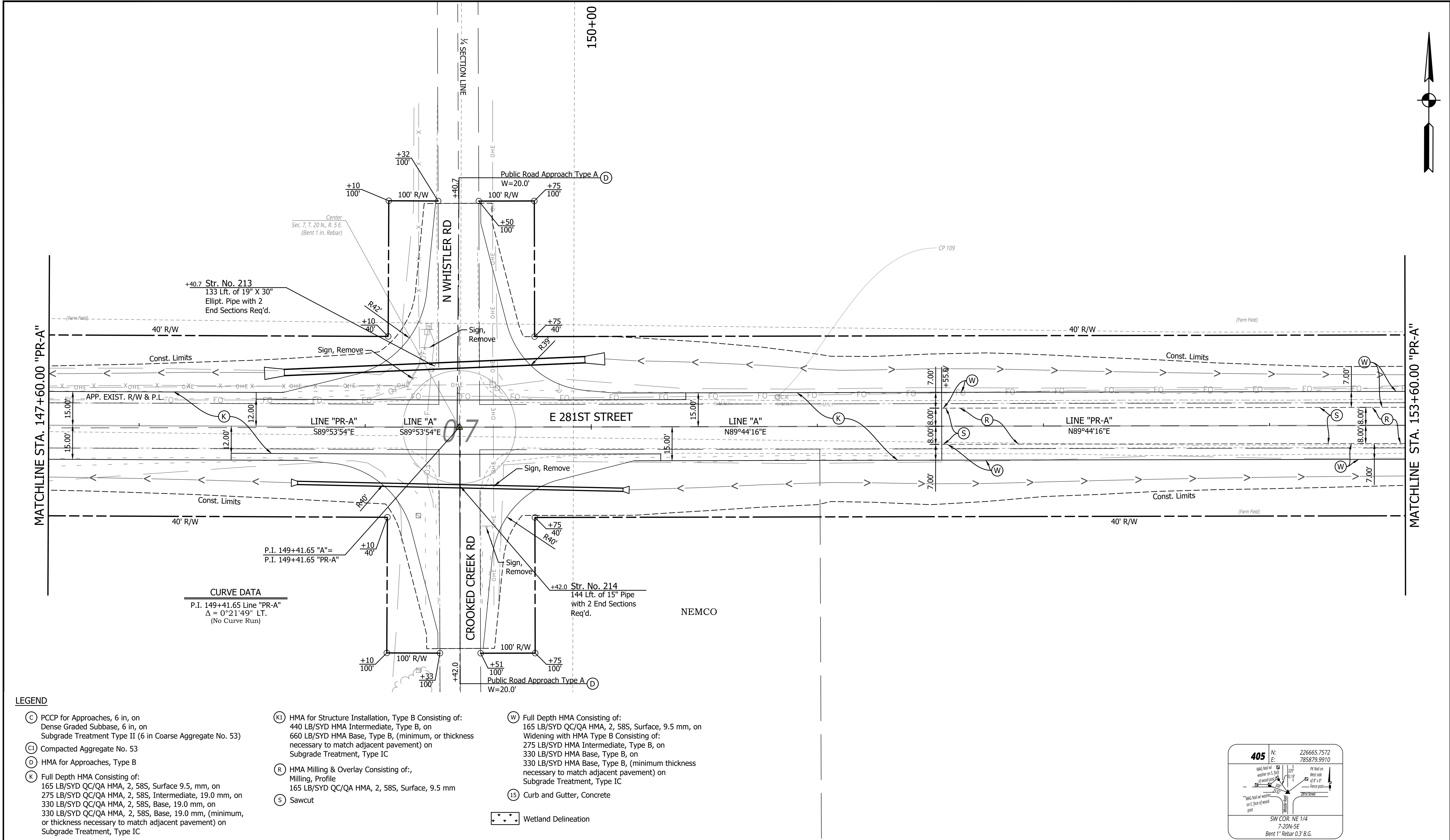


LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
 - (Cl) Compacted Aggregate No. 53
 - (D) HMA for Approaches, Type B
 - (K) Full Depth HMA Consisting of:
 - 165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on
 - 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on
 - 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on
 - 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on
 - Subgrade Treatment, Type IC
 - (K1) HMA for Structure Installation, Type B Consisting of:
 - 440 LB/SYD HMA Intermediate, Type B, on
 - 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on
 - Subgrade Treatment, Type IC
 - (R) HMA Milling & Overlay Consisting of:
 - Milling, Profile
 - 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm
 - (S) Sawcut
 - (W) Full Depth HMA Consisting of:
 - 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on
 - Widening with HMA Type B Consisting of:
 - 275 LB/SYD HMA Intermediate, Type B, on
 - 330 LB/SYD HMA Base, Type B, on
 - 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on
 - Subgrade Treatment, Type IC
 - (15) Curb and Gutter, Concrete
- Wetland Delineation

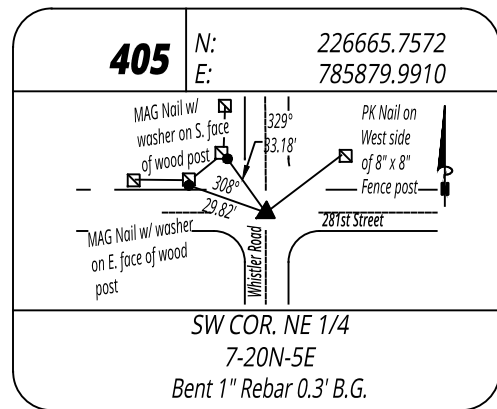
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DESIGNED: <u>MJR 12/20/2024</u>		DRAWN: <u>MJR 12/20/2024</u>		CONSTRUCTION DETAILS						VERTICAL SCALE		DESIGNATION	
								N/A		2003031			
CHECKED: <u>NDH 1/9/2025</u>		CHECKED: <u>NDH 1/9/2025</u>		STA. 141+60.00 TO 147+60.00 LINE "PR-A"				SURVEY BOOK		SHEET			
								33		of 179			
								CONTRACT		PROJECT			
								R-43619		2003031			

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
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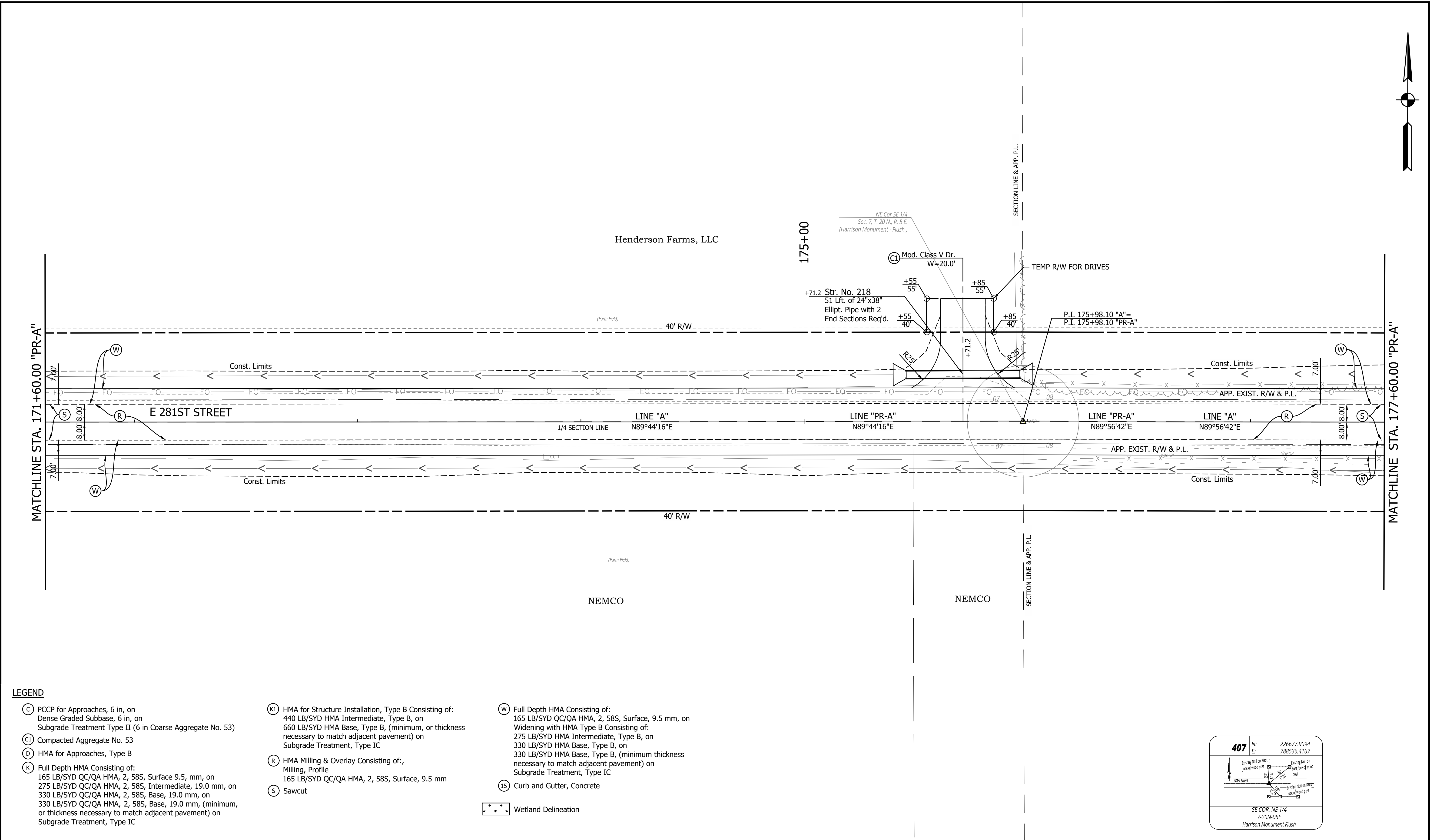
LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
- (Cl) Compacted Aggregate No. 53
- (D) HMA for Approaches, Type B
- (K) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (KI) HMA for Structure Installation, Type B Consisting of: 440 LB/SYD HMA Intermediate, Type B, on 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (R) HMA Milling & Overlay Consisting of:, Milling, Profile 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm
- (S) Sawcut
- (W) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of: 275 LB/SYD HMA Intermediate, Type B, on 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete
- (Wetland Delineation)



		RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION				HORIZONTAL SCALE		BRIDGE FILE			
												1" = 20'					
												VERTICAL SCALE		DESIGNATION			
												N/A		2003031			
		DESIGNED: MJR 12/20/2024		DRAWN: MJR 12/20/2024		CONSTRUCTION DETAILS								SURVEY BOOK		SHEET	
		CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025		STA. 147+60.00 TO 153+60.00 LINE "PR-A"										34 of 179	
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														R-43619		2003031	

PRINT DATE: 1/9/25
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EDITED BY: BEYERS
DATE: 12/20/24 - 12:10 AM



LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)

(Cl) Compacted Aggregate No. 53

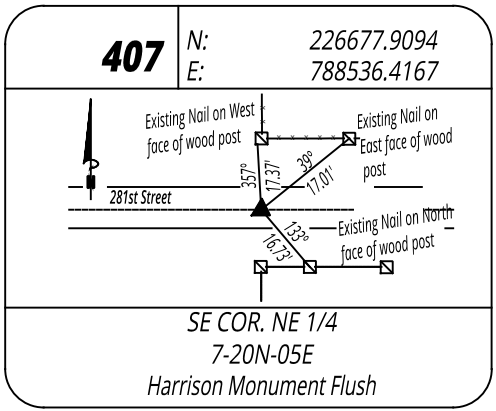
(D) HMA for Approaches, Type B

(K) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (K1) HMA for Structure Installation, Type B Consisting of:
440 LB/SYD HMA Intermediate, Type B, on 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC

(R) HMA Milling & Overlay Consisting of:
Milling, Profile
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm

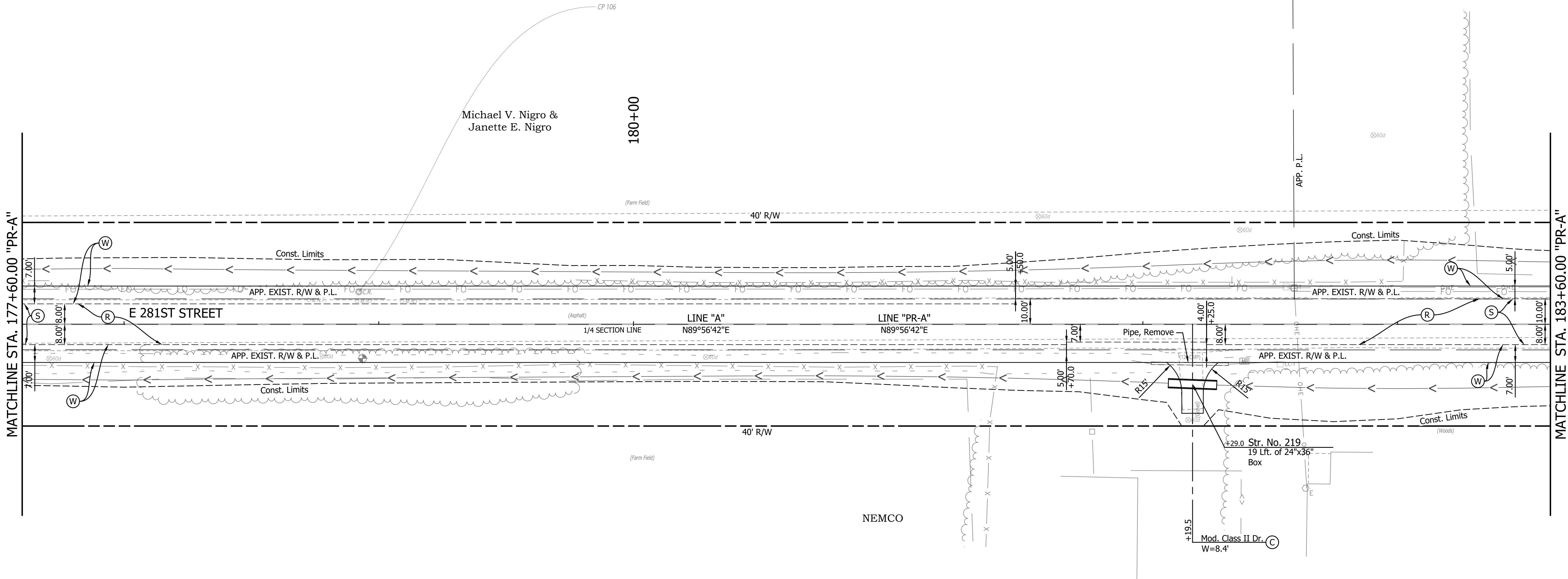
(S) Sawcut
- (W) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of:
275 LB/SYD HMA Intermediate, Type B, on 330 LB/SYD HMA Base, Type B, on 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC

(15) Curb and Gutter, Concrete
- Wetland Delineation



		RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
		DESIGN ENGINEER		DATE		1" = 20'		DESIGNATION	
		DESIGNED: MJR 12/20/2024		DRAWN: MJR 12/20/2024		VERTICAL SCALE		2003031	
		CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025		N/A		PROJECT	
						SURVEY BOOK		SHEET	
						CONTRACT		38 of 179	
				CONSTRUCTION DETAILS		R-43619		2003031	
				STA. 171+60.00 TO 177+60.00 LINE "PR-A"					

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PLOT SCALE: 1:1
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DATE: 12/20/24 - 12:10 AM

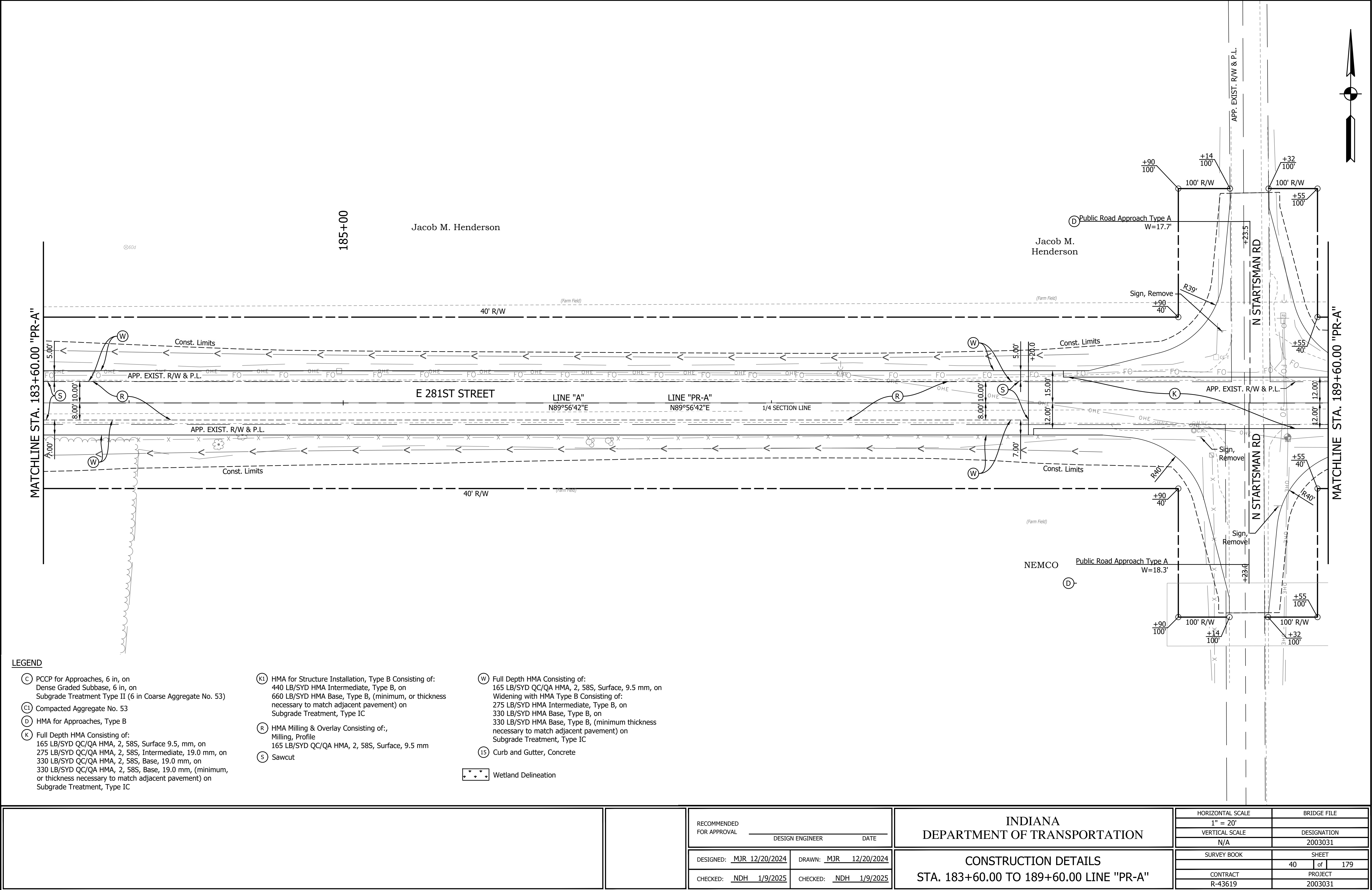


LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
- (Cl) Compacted Aggregate No. 53
- (D) HMA for Approaches, Type B
- (K) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on
275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (K1) HMA for Structure Installation, Type B Consisting of:
440 LB/SYD HMA Intermediate, Type B, on
660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (R) HMA Milling & Overlay Consisting of:
Milling, Profile
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm
- (S) Sawcut
- (W) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of:
275 LB/SYD HMA Intermediate, Type B, on
330 LB/SYD HMA Base, Type B, on
330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete
- Wetland Delineation

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE		BRIDGE FILE	
						1" = 20'			
DESIGNED: <u>MJR 12/20/2024</u>		DRAWN: <u>MJR 12/20/2024</u>				VERTICAL SCALE		DESIGNATION	
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CHECKED: <u>NDH 1/9/2025</u>		CHECKED: <u>NDH 1/9/2025</u>				SURVEY BOOK		SHEET	
						39		of	179
						CONTRACT		PROJECT	
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STA. 177+60.00 TO 183+60.00 LINE "PR-A"									

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\07 CONST DTL\RD-CD-PR-A_281ST ST_05-31-23.DWG
EDITED BY: BEYERS
DATE: 12/20/24 - 12:10 AM
DESIGNED BY: MJR
DRAWN BY: MJR
CHECKED BY: NDH
DATE: 12/20/24
DATE: 12/20/24
DATE: 1/9/2025



LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)

(Cl) Compacted Aggregate No. 53

(D) HMA for Approaches, Type B

(K) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on
275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on
Subgrade Treatment, Type IC
- (K1) HMA for Structure Installation, Type B Consisting of:
440 LB/SYD HMA Intermediate, Type B, on
660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on
Subgrade Treatment, Type IC

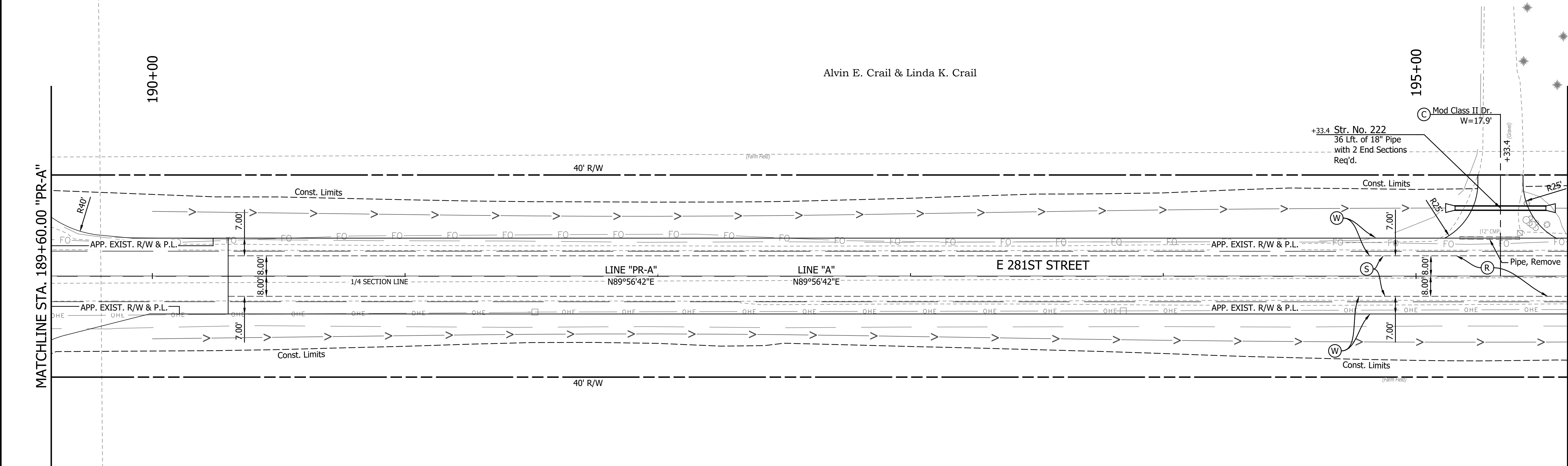
(R) HMA Milling & Overlay Consisting of:
Milling, Profile
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm

(S) Sawcut
- (W) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on
Widening with HMA Type B Consisting of:
275 LB/SYD HMA Intermediate, Type B, on
330 LB/SYD HMA Base, Type B, on
330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on
Subgrade Treatment, Type IC

(15) Curb and Gutter, Concrete
- Wetland Delineation

		RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
										1" = 20'			
										VERTICAL SCALE		DESIGNATION	
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				DESIGNED: MJR 12/20/2024		DRAWN: MJR 12/20/2024		CONSTRUCTION DETAILS STA. 183+60.00 TO 189+60.00 LINE "PR-A"		SURVEY BOOK		SHEET	
										40		of 179	
				CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025				CONTRACT		PROJECT	
										R-43619		2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
DESIGNED: MJR 12/20/2024
DRAWN: MJR 12/20/2024
CHECKED: NDH 1/9/2025
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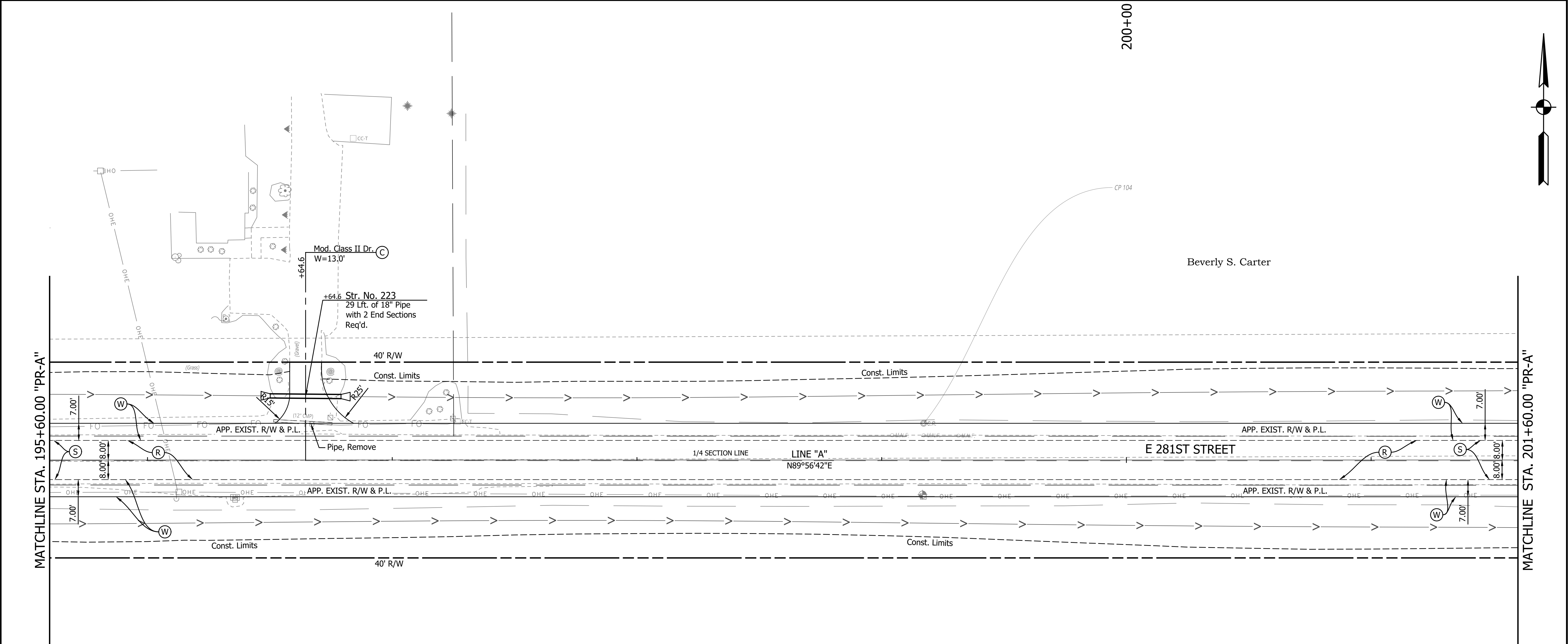
LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
- (Cl) Compacted Aggregate No. 53
- (D) HMA for Approaches, Type B
- (K) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (K1) HMA for Structure Installation, Type B Consisting of: 440 LB/SYD HMA Intermediate, Type B, on 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (R) HMA Milling & Overlay Consisting of:, 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm
- (S) Sawcut
- (W) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of: 275 LB/SYD HMA Intermediate, Type B, on 330 LB/SYD HMA Base, Type B, on 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete

Wetland Delineation

		RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE		BRIDGE FILE	
									1" = 20'			
									VERTICAL SCALE		DESIGNATION	
									N/A		2003031	
DESIGNED: MJR 12/20/2024		DRAWN: MJR 12/20/2024		CONSTRUCTION DETAILS STA. 189+60.00 TO 195+60.00 LINE "PR-A"				SURVEY BOOK		SHEET		
								41		of 179		
CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025						CONTRACT		PROJECT		
								R-43619		2003031		

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
DATE: 12/20/24 - 12:10 AM
EDITED BY: EBYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\07 CONST DTL\RD-CD-PR-A_281ST ST_05-31-23.DWG

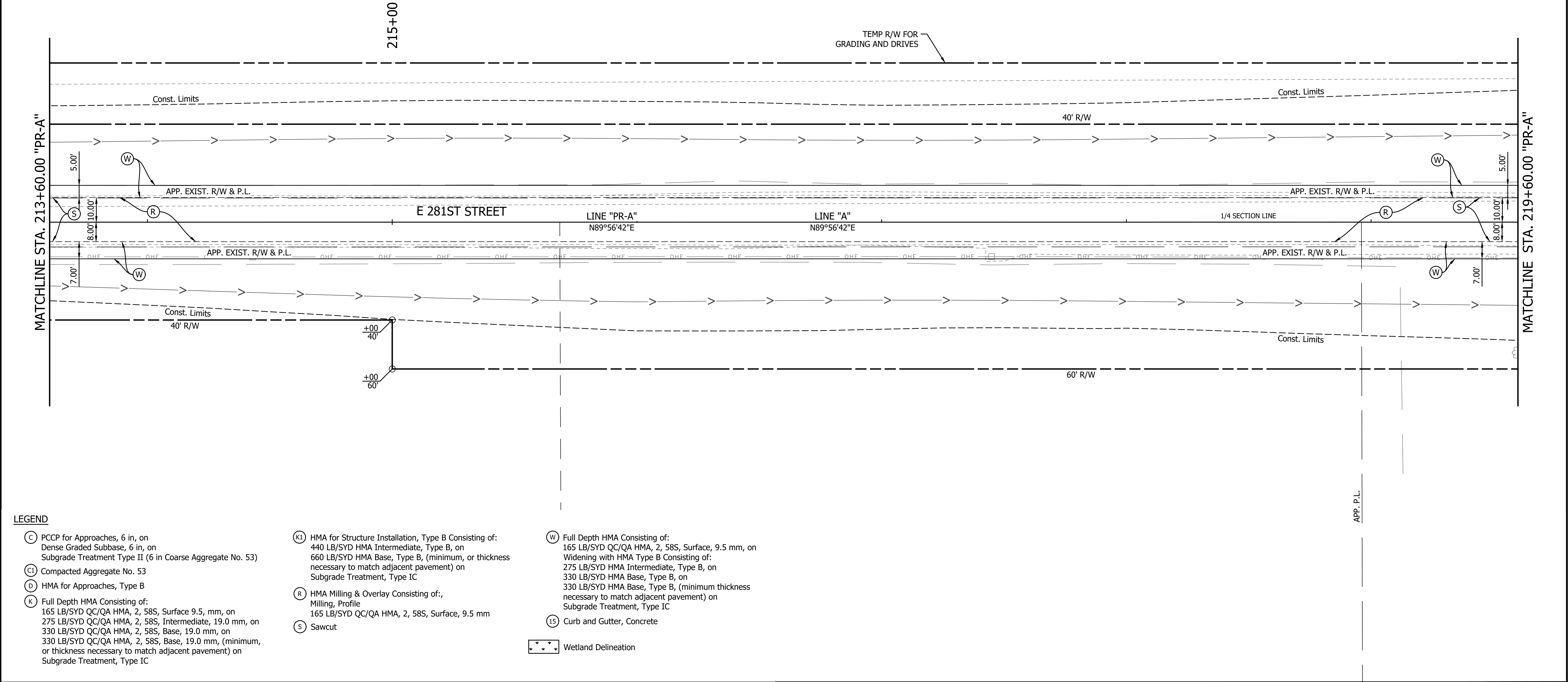


LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
- (Cl) Compacted Aggregate No. 53
- (D) HMA for Approaches, Type B
- (K) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (KI) HMA for Structure Installation, Type B Consisting of: 440 LB/SYD HMA Intermediate, Type B, on 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (R) HMA Milling & Overlay Consisting of:, Milling, Profile 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm
- (S) Sawcut
- (W) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of: 275 LB/SYD HMA Intermediate, Type B, on 330 LB/SYD HMA Base, Type B, on 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete
- Wetland Delineation

		RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
		DESIGN ENGINEER		DATE		1" = 20'		DESIGNATION	
						VERTICAL SCALE		2003031	
						N/A			
		DESIGNED: MJR 12/20/2024		DRAWN: MJR 12/20/2024		SURVEY BOOK		SHEET	
		CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025				42 of 179	
						CONSTRUCTION DETAILS		PROJECT	
						STA. 195+60.00 TO 201+60.00 LINE "PR-A"		2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
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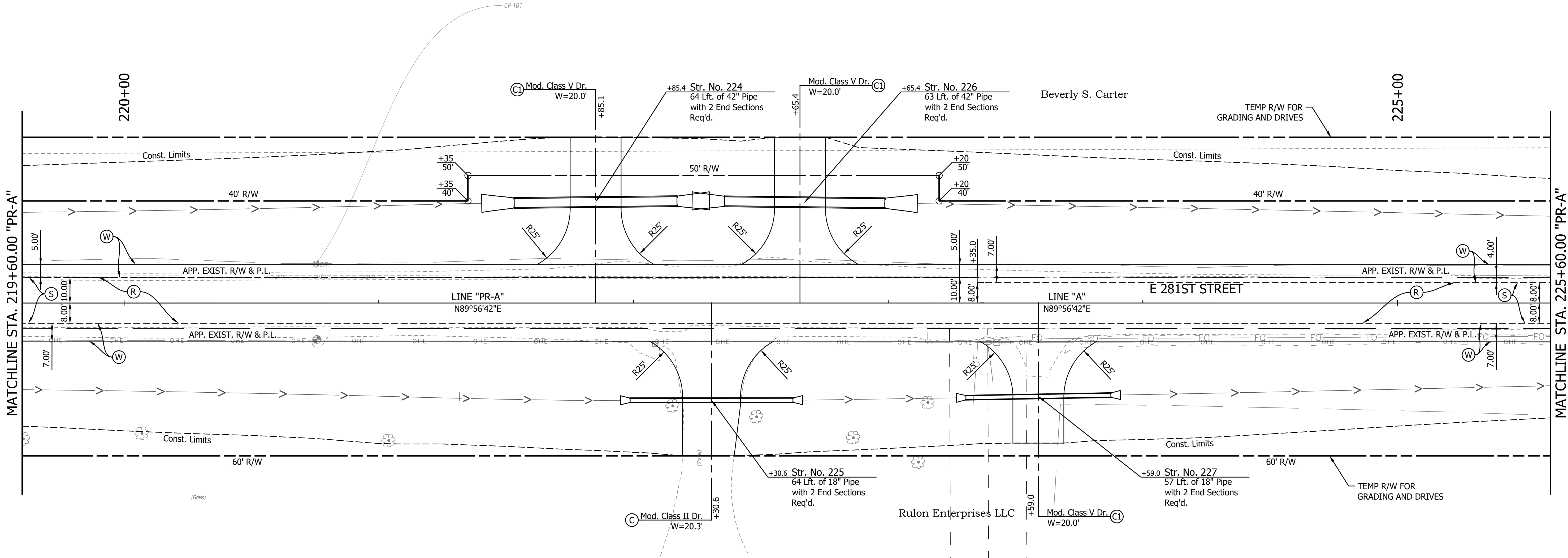
LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
- (Cl) Compacted Aggregate No. 53
- (D) HMA for Approaches, Type B
- (K) Full Depth HMA Consisting of:
 - 165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on
 - 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on
 - 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on
 - 330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (KI) HMA for Structure Installation, Type B Consisting of:
 - 440 LB/SYD HMA Intermediate, Type B, on
 - 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (R) HMA Milling & Overlay Consisting of:
 - Milling, Profile
 - 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm
- (S) Sawcut
- (W) Full Depth HMA Consisting of:
 - 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of:
 - 275 LB/SYD HMA Intermediate, Type B, on
 - 330 LB/SYD HMA Base, Type B, on
 - 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete

Wetland Delineation

		RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
						1" = 20'		DESIGNATION	
						N/A		2003031	
						SURVEY BOOK		SHEET	
		DESIGNED: MJR 12/20/2024 DRAWN: MJR 12/20/2024 CHECKED: NDH 1/9/2025 CHECKED: NDH 1/9/2025		CONSTRUCTION DETAILS STA. 213+60.00 TO 219+60.00 LINE "PR-A"		VERTICAL SCALE		45 of 179	
						N/A		PROJECT	
						CONTRACT		2003031	
						R-43619			

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
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EDIT DATE: 12/20/24 - 12:10 AM
EDITED BY: BEYERS



LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
- (Cl) Compacted Aggregate No. 53
- (D) HMA for Approaches, Type B
- (K) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on
275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC

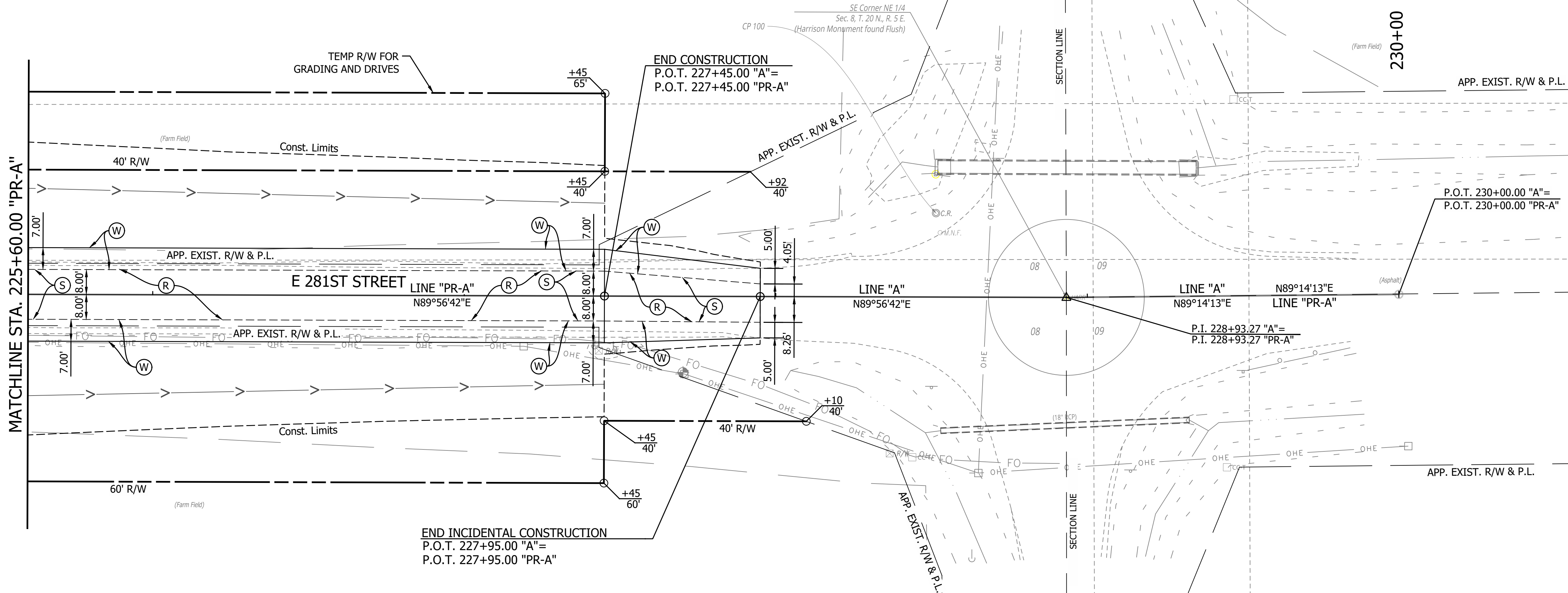
- (K1) HMA for Structure Installation, Type B Consisting of:
440 LB/SYD HMA Intermediate, Type B, on
660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (R) HMA Milling & Overlay Consisting of:
Milling, Profile
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm
- (S) Sawcut

- (W) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of:
275 LB/SYD HMA Intermediate, Type B, on
330 LB/SYD HMA Base, Type B, on
330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete

Wetland Delineation

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION				HORIZONTAL SCALE		BRIDGE FILE	
										1" = 20'			
DESIGNED: <u>MJR 12/20/2024</u>		DRAWN: <u>MJR 12/20/2024</u>		CONSTRUCTION DETAILS STA. 219+60.00 TO 225+60.00 LINE "PR-A"						VERTICAL SCALE		DESIGNATION	
								N/A		2003031			
CHECKED: <u>NDH 1/9/2025</u>		CHECKED: <u>NDH 1/9/2025</u>								SURVEY BOOK		SHEET	
				46		of 179							
						CONTRACT		PROJECT					
						R-43619		2003031					

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
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EDITED BY: BEYERS
DATE: 12/20/24 - 12:10 AM

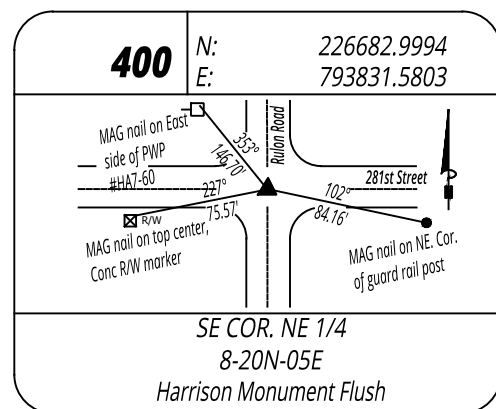


LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
- (Cl) Compacted Aggregate No. 53
- (D) HMA for Approaches, Type B
- (K) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5, mm, on
275 LB/SYD QC/QA HMA, 2, 58S, Intermediate, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, on
330 LB/SYD QC/QA HMA, 2, 58S, Base, 19.0 mm, (minimum, or thickness necessary to match adjacent pavement) on
Subgrade Treatment, Type IC
- (KI) HMA for Structure Installation, Type B Consisting of:
440 LB/SYD HMA Intermediate, Type B, on
660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on
Subgrade Treatment, Type IC
- (R) HMA Milling & Overlay Consisting of:
Milling, Profile
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm
- (S) Sawcut

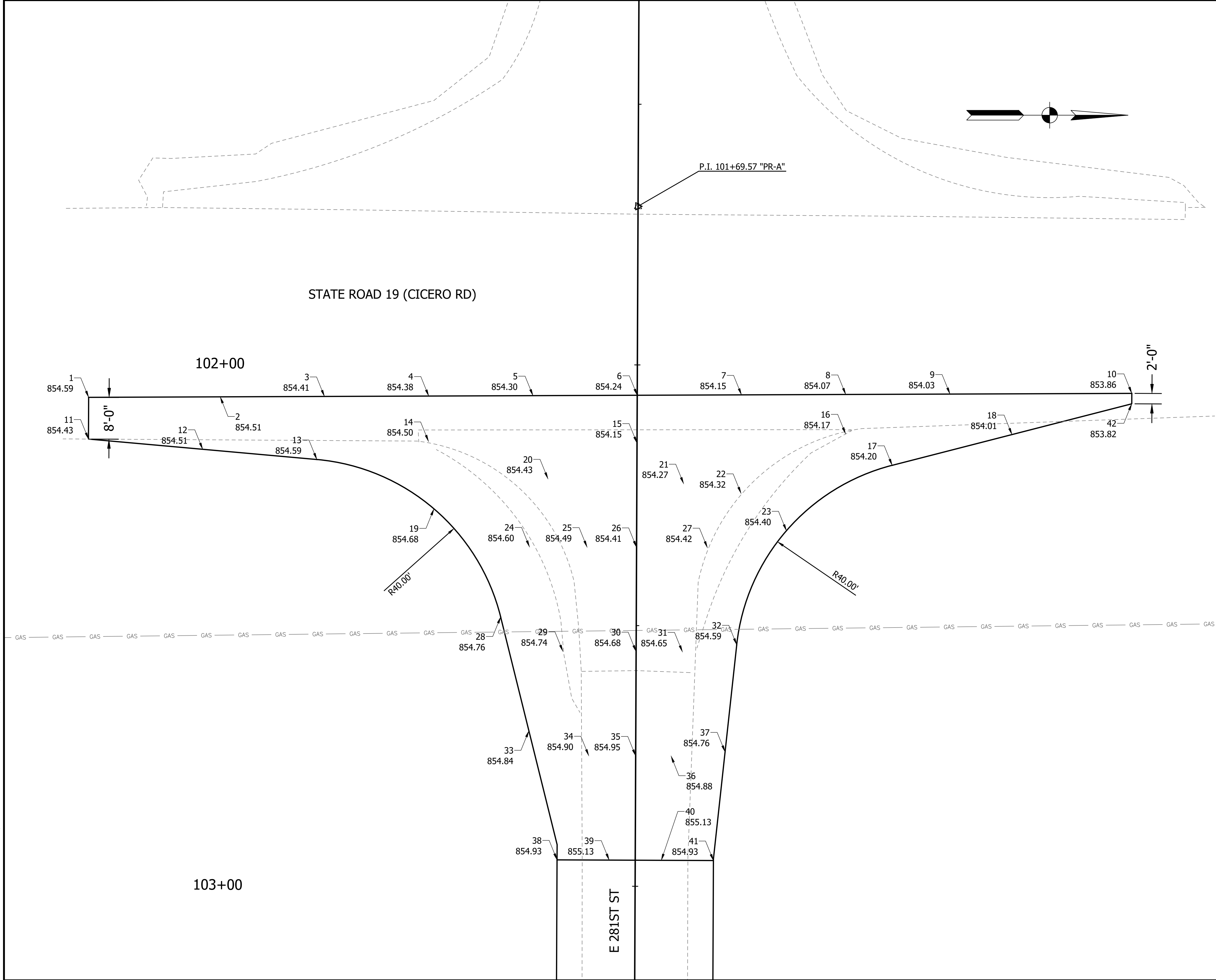
- (W) Full Depth HMA Consisting of:
165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on
Widening with HMA Type B Consisting of:
275 LB/SYD HMA Intermediate, Type B, on
330 LB/SYD HMA Base, Type B, on
330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on
Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete

Wetland Delineation



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION				HORIZONTAL SCALE		BRIDGE FILE	
										1" = 20'			
										VERTICAL SCALE		DESIGNATION	
										N/A		2003031	
DESIGNED: MJR 12/20/2024		DRAWN: MJR 12/20/2024		CONSTRUCTION DETAILS STA. 225+60.00 TO 230+00.00 LINE "PR-A"				SURVEY BOOK		SHEET			
								47		of		179	
CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025						CONTRACT		PROJECT			
								R-43619		2003031			

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/18/24 - 7:33 PM
EDITED BY: EYERS
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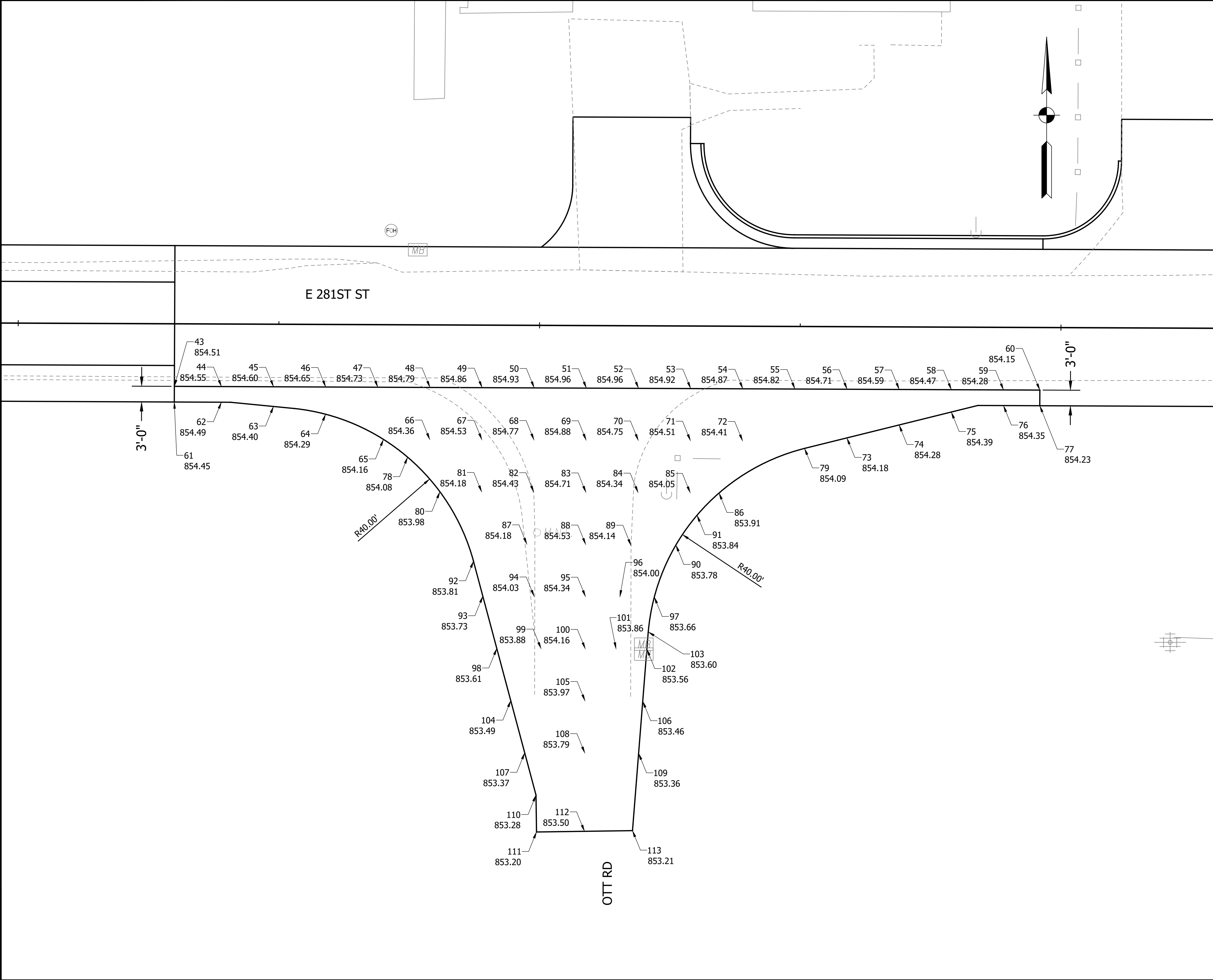


CONTROL POINTS		
POINT #	NORTHING	EASTING
1	226415.0960	781160.8010
2	226440.3336	781160.7050
3	226460.3341	781160.6289
4	226480.3347	781160.5528
5	226500.3352	781160.4767
6	226520.3357	781160.4006
7	226540.3362	781160.3245
8	226560.3367	781160.2485
9	226580.3372	781160.1724
10	226615.2155	781160.0397
11	226415.0616	781168.8009
12	226436.9679	781170.7615
13	226458.8742	781172.7220
14	226480.2973	781169.2550
15	226520.2962	781169.5803
16	226560.3043	781167.7960
17	226569.2417	781173.8398
18	226592.2243	781167.9397
19	226481.3343	781182.1875
20	226503.2072	781176.4281
21	226529.2352	781177.3589
22	226540.2550	781179.2217
23	226548.9559	781186.3913
24	226499.6677	781189.4919
25	226510.7154	781189.5393

CONTROL POINTS		
POINT #	NORTHING	EASTING
26	226520.2103	781189.5802
27	226533.7948	781189.6385
28	226494.1315	781202.9309
29	226506.0694	781209.5196
30	226520.1243	781209.5800
31	226529.0066	781209.6182
32	226539.4224	781208.2583
33	226499.5483	781224.7639
34	226511.0367	781229.5411
35	226520.0383	781229.5798
36	226526.8322	781229.6090
37	226537.1879	781228.8020
38	226504.9525	781249.5151
39	226514.9524	781249.5581
40	226524.9523	781249.6011
41	226534.9522	781249.6441
42	226615.2069	781162.0397

				RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
												1" = 10'			
												VERTICAL SCALE		DESIGNATION	
												N/A		2003031	
				DESIGNED: ESB 12/18/2024		DRAWN: ESB 12/18/2024				INTERSECTION DETAILS		SURVEY BOOK		SHEET	
												48 of 179			
												CONTRACT		PROJECT	
				CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025						R-43619		2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/18/24 - 7:33 PM
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\DTA INTERS DTL\INTERSECTION DETAILS.DWG
DESIGNED BY: EYERS
EDITED BY: EYERS



CONTROL POINTS		
POINT #	NORTHING	EASTING
43	226500.4946	782984.5120
44	226500.4558	782993.5447
45	226500.4128	783003.5446
46	226500.3698	783013.5445
47	226500.3269	783023.5445
48	226500.2839	783033.5444
49	226500.2409	783043.5443
50	226500.1979	783053.5442
51	226500.1549	783063.5441
52	226500.1119	783073.5440
53	226500.0690	783083.5439
54	226500.0260	783093.5438
55	226499.9830	783103.5437
56	226499.9400	783113.5436
57	226499.8970	783123.5435
58	226499.8540	783133.5434
59	226499.8110	783143.5433
60	226499.7811	783150.5140
61	226497.4947	782984.4991
62	226497.4558	782993.5318
63	226496.6379	783003.5284
64	226495.1450	783013.5221
65	226490.3222	783024.6150
66	226490.2840	783033.5014
67	226490.2410	783043.5013
68	226490.1980	783053.5012
69	226490.1550	783063.5011
70	226490.1120	783073.5010
71	226490.0690	783083.5009
72	226490.0261	783093.5008
73	226490.6067	783113.5035
74	226493.0882	783123.5143
75	226495.5698	783133.5250
76	226496.8111	783143.5304
77	226496.7811	783150.5011
78	226486.9149	783029.2474
79	226488.5943	783105.3854
80	226480.2755	783035.4411
81	226480.2411	783043.4583
82	226480.1981	783053.4582

CONTROL POINTS		
POINT #	NORTHING	EASTING
83	226480.1551	783063.4581
84	226480.1121	783073.4580
85	226480.0691	783083.4579
86	226480.0454	783088.9821
87	226470.2037	783052.1257
88	226470.1552	783063.4151
89	226469.9418	783072.1077
90	226470.0809	783080.7098
91	226475.7924	783084.7672
92	226466.9480	783041.8852
93	226460.2399	783043.6791
94	226460.1976	783053.5256
95	226460.1553	783063.3721
96	226460.1269	783069.9684
97	226460.0986	783076.5647
98	226450.2283	783046.3566
99	226450.1919	783054.8429
100	226450.1554	783063.3292
101	226450.1300	783069.2343
102	226450.1046	783075.1395
103	226453.4033	783075.4006
104	226440.2167	783049.0340
105	226440.1555	783063.2862
106	226440.1079	783074.3482
107	226430.2051	783051.7115
108	226430.1556	783063.2432
109	226430.1112	783073.5568
110	226422.1095	783053.8765
111	226415.0269	783053.9745
112	226415.1542	783063.1787
113	226415.2815	783072.3829

RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

DATE

DESIGNED: MJR 12/18/2024

DRAWN: ESB 12/18/2024

CHECKED: NDH 1/9/2025

CHECKED: NDH 1/9/2025

INDIANA DEPARTMENT OF TRANSPORTATION

INTERSECTION DETAILS

HORIZONTAL SCALE

1" = 30'

VERTICAL SCALE

N/A

BRIDGE FILE

DESIGNATION

2003031

SURVEY BOOK

CONTRACT

R-43619

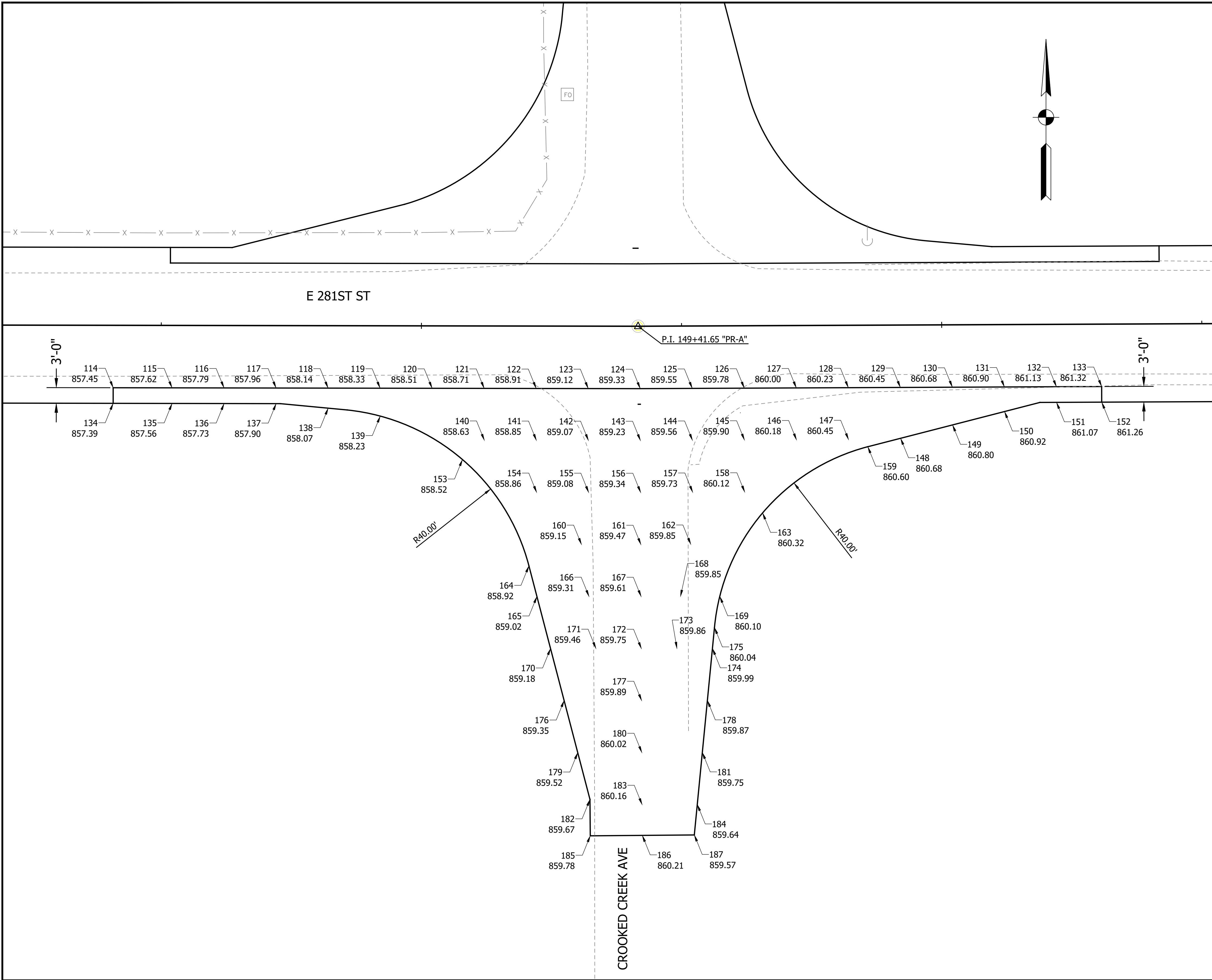
SHEET

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PROJECT

2003031

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/18/24 - 7:33 PM
EDITED BY: EYERS
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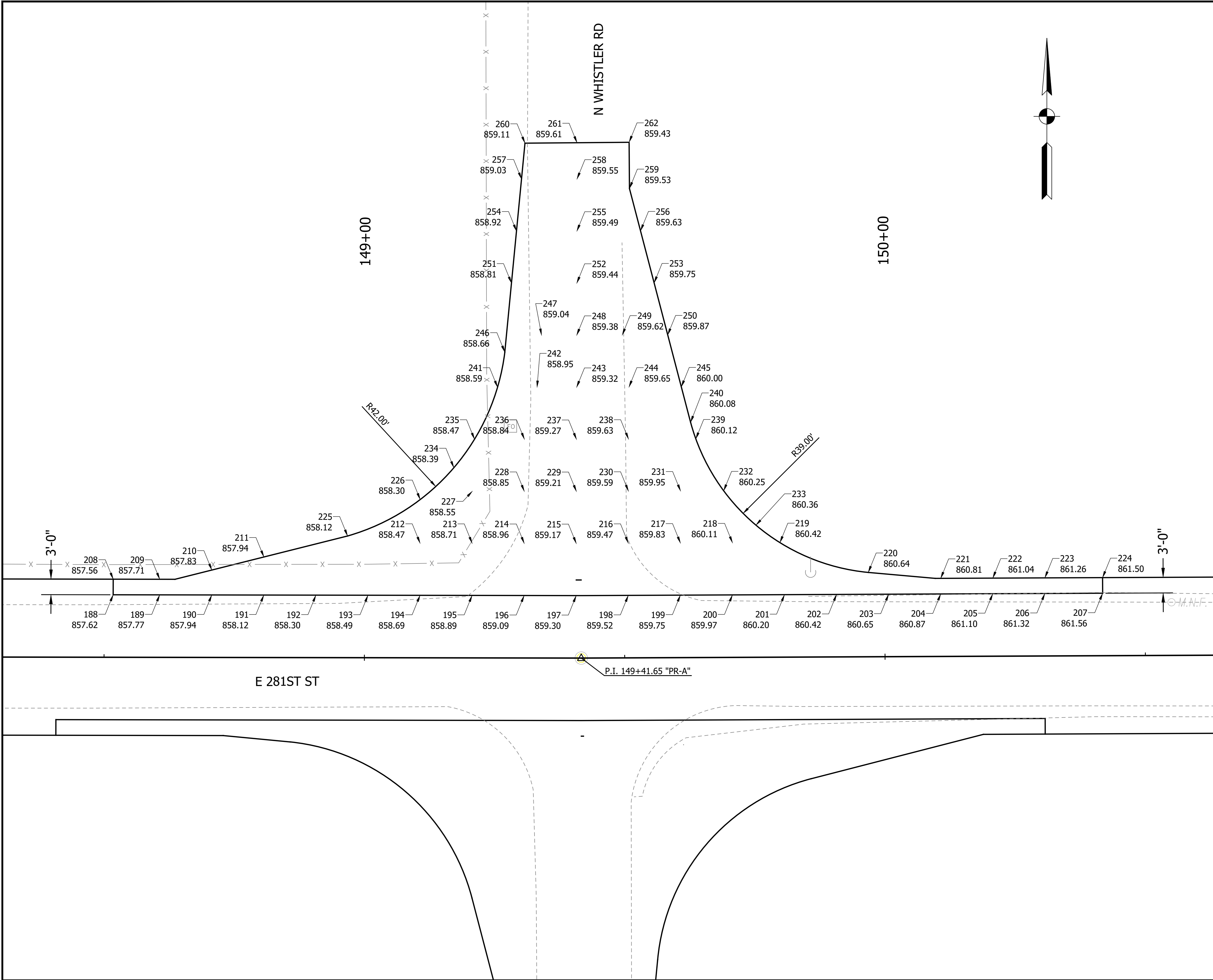


CONTROL POINTS		
POINT #	NORTHING	EASTING
114	226653.9361	785779.0928
115	226653.9160	785790.4029
116	226653.8983	785800.4031
117	226653.8806	785810.4033
118	226653.8628	785820.4035
119	226653.8451	785830.4036
120	226653.8274	785840.4038
121	226653.8096	785850.4040
122	226653.7919	785860.4042
123	226653.7742	785870.4044
124	226653.7590	785880.4046
125	226653.8047	785890.4044
126	226653.8505	785900.4043
127	226653.8962	785910.4042
128	226653.9420	785920.4041
129	226653.9877	785930.4040
130	226654.0334	785940.4039
131	226654.0792	785950.4038
132	226654.1249	785960.4037
133	226654.1647	785969.0923
134	226650.9361	785779.0875
135	226650.9160	785790.4166
136	226650.8983	785800.4168
137	226650.8805	785810.4170
138	226650.0048	785820.4211
139	226648.4790	785830.4282
140	226643.8095	785850.4498
141	226643.7918	785860.4499
142	226643.7741	785870.4501
143	226643.7591	785880.4503
144	226643.8048	785890.4502
145	226643.8506	785900.4501
146	226643.8963	785910.4500
147	226643.9421	785920.4499
148	226644.2125	785930.4487
149	226646.7848	785940.4371
150	226649.3572	785950.4254
151	226651.1250	785960.4174
152	226651.1647	785969.1060
153	226640.1250	785846.2268

CONTROL POINTS		
POINT #	NORTHING	EASTING
154	226633.7917	785860.4957
155	226633.7740	785870.4959
156	226633.7592	785880.4960
157	226633.8049	785890.4959
158	226633.8507	785900.4958
159	226642.5889	785924.1448
160	226623.7780	785869.1149
161	226623.7593	785880.5418
162	226623.8031	785890.1265
163	226629.8650	785903.9243
164	226619.6826	785859.0019
165	226613.7916	785860.5418
166	226613.7755	785870.5647
167	226613.7594	785880.5875
168	226613.7939	785888.1388
169	226613.8285	785895.6901
170	226603.7869	785863.1571
171	226603.7732	785871.8952
172	226603.7595	785880.6333
173	226603.7907	785887.4567
174	226603.8219	785894.2802
175	226607.8393	785894.6702
176	226593.7823	785865.7724
177	226593.7596	785880.6790
178	226593.8174	785893.3090
179	226583.7776	785868.3877
180	226583.7597	785880.7248
181	226583.8128	785892.3378
182	226574.7774	785870.7405
183	226573.7598	785880.7705
184	226573.8083	785891.3667
185	226567.7957	785870.7977
186	226567.8596	785880.7975
187	226567.9423	785890.7972

		RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
										1" = 30'			
										VERTICAL SCALE		DESIGNATION	
										N/A		2003031	
		DESIGNED: MJR 12/18/2024		DRAWN: ESB 12/18/2024				INTERSECTION DETAILS		SURVEY BOOK		SHEET	
										50		of 179	
										CONTRACT		PROJECT	
		CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025						R-43619		2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/18/24 - 7:33 PM
EDITED BY: EYERS
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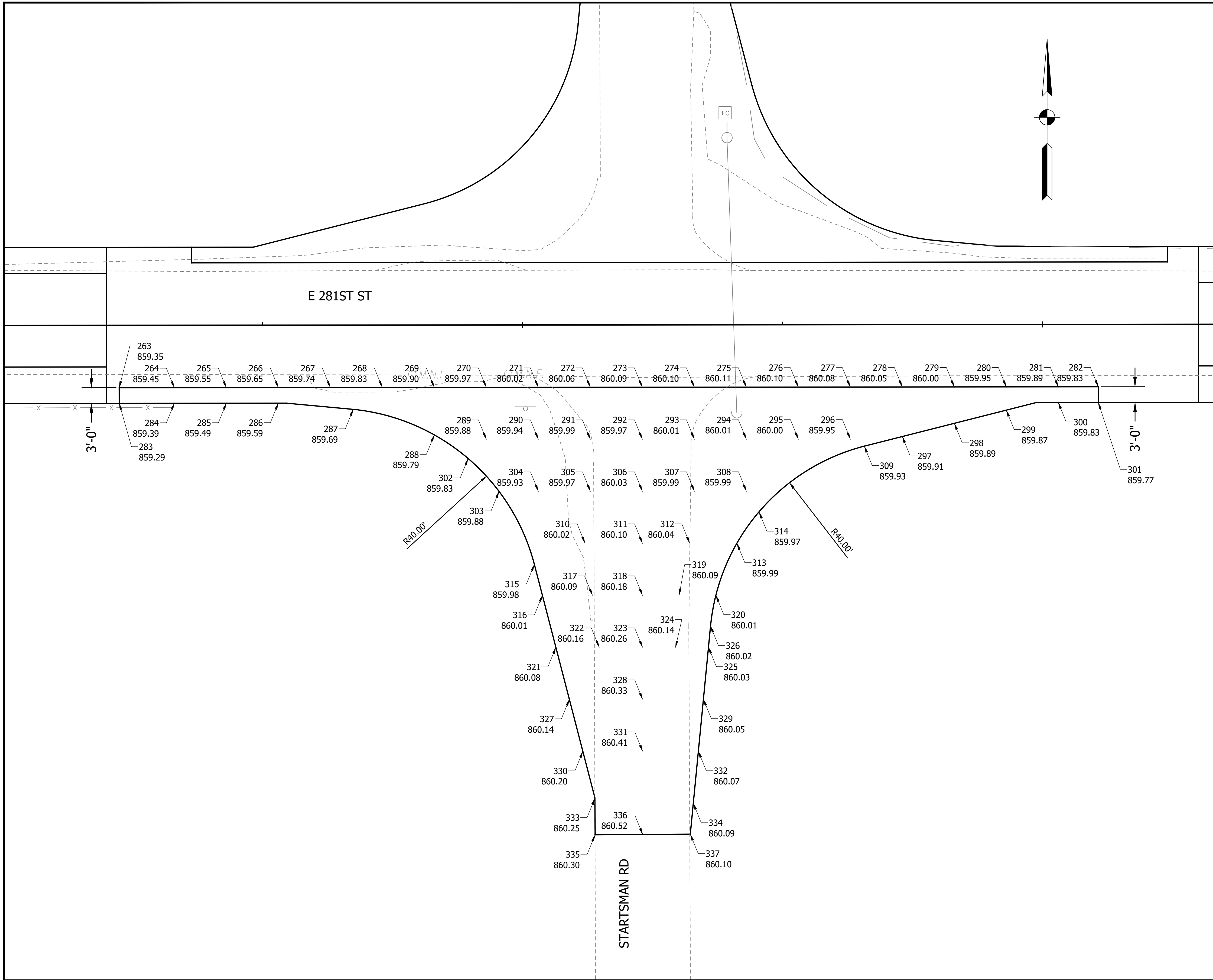


CONTROL POINTS		
POINT #	NORTHING	EASTING
188	226677.9166	785790.0960
189	226677.9008	785799.0305
190	226677.8830	785809.0305
191	226677.8653	785819.0304
192	226677.8476	785829.0304
193	226677.8298	785839.0304
194	226677.8121	785849.0304
195	226677.7944	785859.0304
196	226677.7767	785869.0304
197	226677.7589	785879.0304
198	226677.7987	785889.0304
199	226677.8444	785899.0305
200	226677.8902	785909.0306
201	226677.9359	785919.0307
202	226677.9817	785929.0308
203	226678.0274	785939.0309
204	226678.0732	785949.0310
205	226678.1189	785959.0311
206	226678.1647	785969.0312
207	226678.2155	785980.1354
208	226680.9166	785790.1013
209	226680.9008	785799.0358
210	226682.6671	785809.0389
211	226685.1761	785819.0434
212	226687.8121	785849.0481
213	226687.7944	785859.0481
214	226687.7766	785869.0481
215	226687.7589	785879.0481
216	226687.8032	785889.0482
217	226687.8474	785899.0483
218	226687.8917	785909.0484
219	226687.9320	785918.1527
220	226682.2095	785935.1166
221	226681.0732	785949.0363
222	226681.1190	785959.0364
223	226681.1647	785969.0365
224	226681.2154	785980.1217
225	226689.2068	785835.1161
226	226696.2075	785849.0630
227	226697.7943	785859.0658

CONTROL POINTS		
POINT #	NORTHING	EASTING
228	226697.7766	785869.0658
229	226697.7589	785879.0658
230	226697.8027	785889.0659
231	226697.8464	785899.0660
232	226697.8827	785907.3516
233	226691.2824	785913.5446
234	226702.3201	785855.5268
235	226707.7936	785859.4933
236	226707.7766	785869.0836
237	226707.7589	785879.0835
238	226707.8023	785889.0836
239	226707.8583	785901.9951
240	226711.0348	785900.9942
241	226717.7858	785863.9147
242	226717.7723	785871.5080
243	226717.7589	785879.1013
244	226717.8023	785889.1575
245	226717.8457	785899.2138
246	226724.5191	785865.3124
247	226727.7708	785872.3732
248	226727.7588	785879.1190
249	226727.7963	785887.8609
250	226727.8338	785896.6028
251	226737.7811	785866.5923
252	226737.7588	785879.1367
253	226737.8220	785893.9918
254	226747.7794	785867.5572
255	226747.7588	785879.1545
256	226747.8102	785891.3808
257	226757.7777	785868.5221
258	226757.7588	785879.1722
259	226755.9400	785889.2556
260	226764.6616	785869.1864
261	226764.7436	785879.1846
262	226764.8256	785889.1828

		RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
						1" = 30'	
						VERTICAL SCALE	DESIGNATION
						N/A	2003031
					INTERSECTION DETAILS	SURVEY BOOK	SHEET
							51 of 179
						CONTRACT	PROJECT
						R-43619	2003031

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/18/24 - 7:33 PM
DESIGNED BY: MJR
DRAWN BY: ESB
CHECKED BY: NDH
DATE: 12/18/2024
PROJECT: R-43619

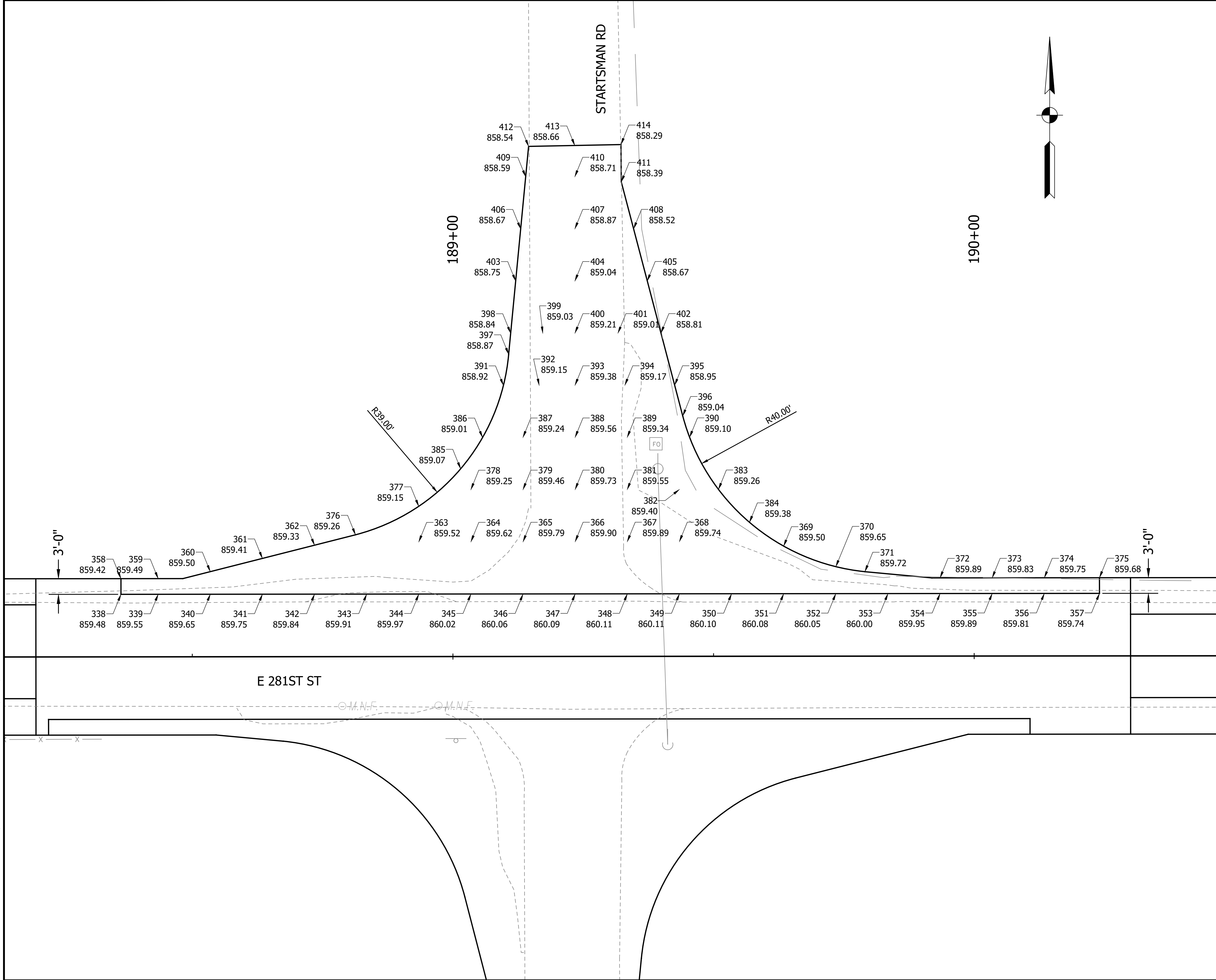


CONTROL POINTS		
POINT #	NORTHING	EASTING
263	226667.0863	789760.7414
264	226667.0965	789771.3362
265	226667.1061	789781.3362
266	226667.1157	789791.3362
267	226667.1253	789801.3362
268	226667.1349	789811.3362
269	226667.1445	789821.3362
270	226667.1541	789831.3362
271	226667.1638	789841.3362
272	226667.1734	789851.3362
273	226667.1830	789861.3362
274	226667.1926	789871.3362
275	226667.2022	789881.3361
276	226667.2118	789891.3361
277	226667.2214	789901.3361
278	226667.2310	789911.3361
279	226667.2407	789921.3361
280	226667.2503	789931.3361
281	226667.2599	789941.3361
282	226667.2673	789949.0261
283	226664.0863	789760.7443
284	226664.0965	789771.3391
285	226664.1061	789781.3391
286	226664.1157	789791.3391
287	226662.9295	789805.7455
288	226658.0114	789821.3450
289	226657.1541	789831.3458
290	226657.1638	789841.3458
291	226657.1734	789851.3458
292	226657.1830	789861.3458
293	226657.1926	789871.3458
294	226657.2022	789881.3458
295	226657.2118	789891.3458
296	226657.2214	789901.3458
297	226657.7080	789911.3453
298	226660.2443	789921.3429
299	226662.7806	789931.3404
300	226664.2599	789941.3390
301	226664.2673	789949.0290
302	226653.4780	789827.8417

CONTROL POINTS		
POINT #	NORTHING	EASTING
303	226647.1565	789833.7848
304	226647.1638	789841.3554
305	226647.1734	789851.3554
306	226647.1830	789861.3554
307	226647.1926	789871.3554
308	226647.2022	789881.3554
309	226655.8540	789904.0370
310	226637.1724	789850.3295
311	226637.1830	789861.3650
312	226637.1917	789870.4491
313	226637.2005	789879.5333
314	226643.2306	789883.7847
315	226633.1027	789840.5861
316	226627.1645	789842.1264
317	226627.1737	789851.7505
318	226627.1830	789861.3746
319	226627.1898	789868.4320
320	226627.1966	789875.4893
321	226617.1670	789844.7197
322	226617.1750	789853.0519
323	226617.1830	789861.3842
324	226617.1891	789867.7253
325	226617.1952	789874.0664
326	226621.2624	789874.4621
327	226607.1695	789847.3129
328	226607.1830	789861.3938
329	226607.1943	789873.0933
330	226597.1720	789849.9062
331	226597.1830	789861.4034
332	226597.1933	789872.1201
333	226588.1753	789852.2398
334	226587.1924	789871.1470
335	226581.1222	789852.2692
336	226581.1842	789861.4188
337	226581.2462	789870.5684

		RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION
		DESIGNED: MJR 12/18/2024	DRAWN: ESB 12/18/2024		
		CHECKED: NDH 1/9/2025	CHECKED: NDH 1/9/2025		
		INTERSECTION DETAILS			
HORIZONTAL SCALE		BRIDGE FILE			
1" = 30'					
VERTICAL SCALE		DESIGNATION			
N/A		2003031			
SURVEY BOOK		SHEET			
		52 of 179			
CONTRACT		PROJECT			
R-43619		2003031			

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/18/24 - 7:33 PM
EDITED BY: EYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\ACAD\DTA INTERS DTL\INTERSECTION DETAILS.DWG

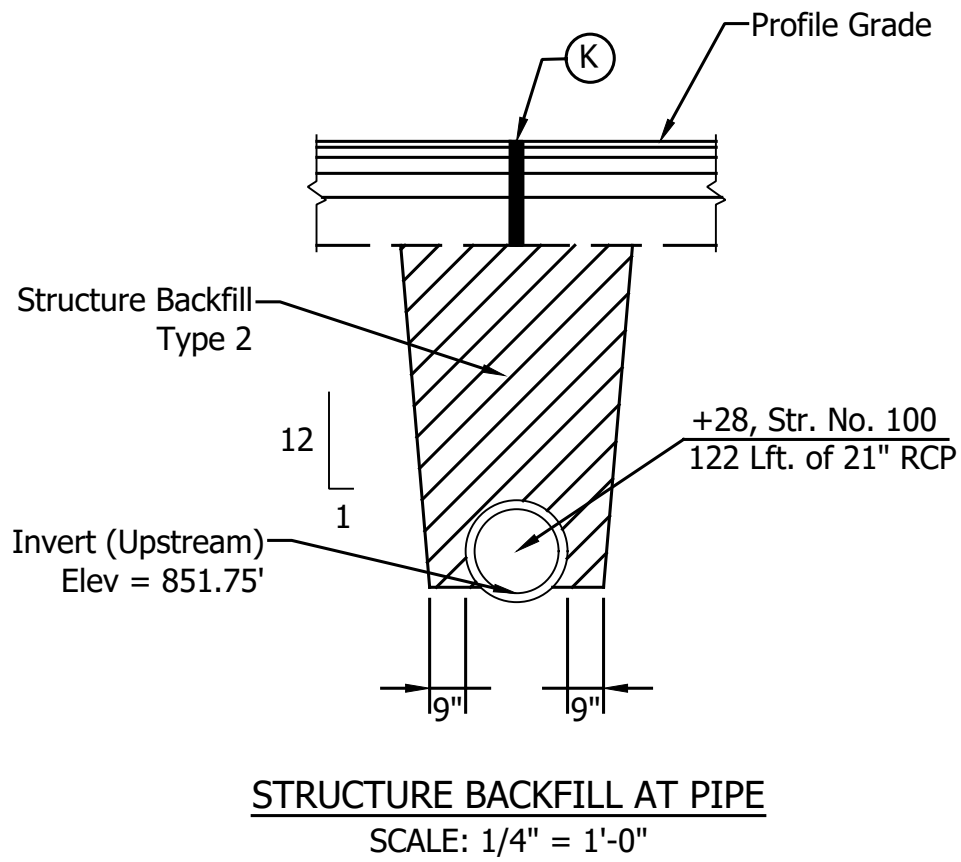
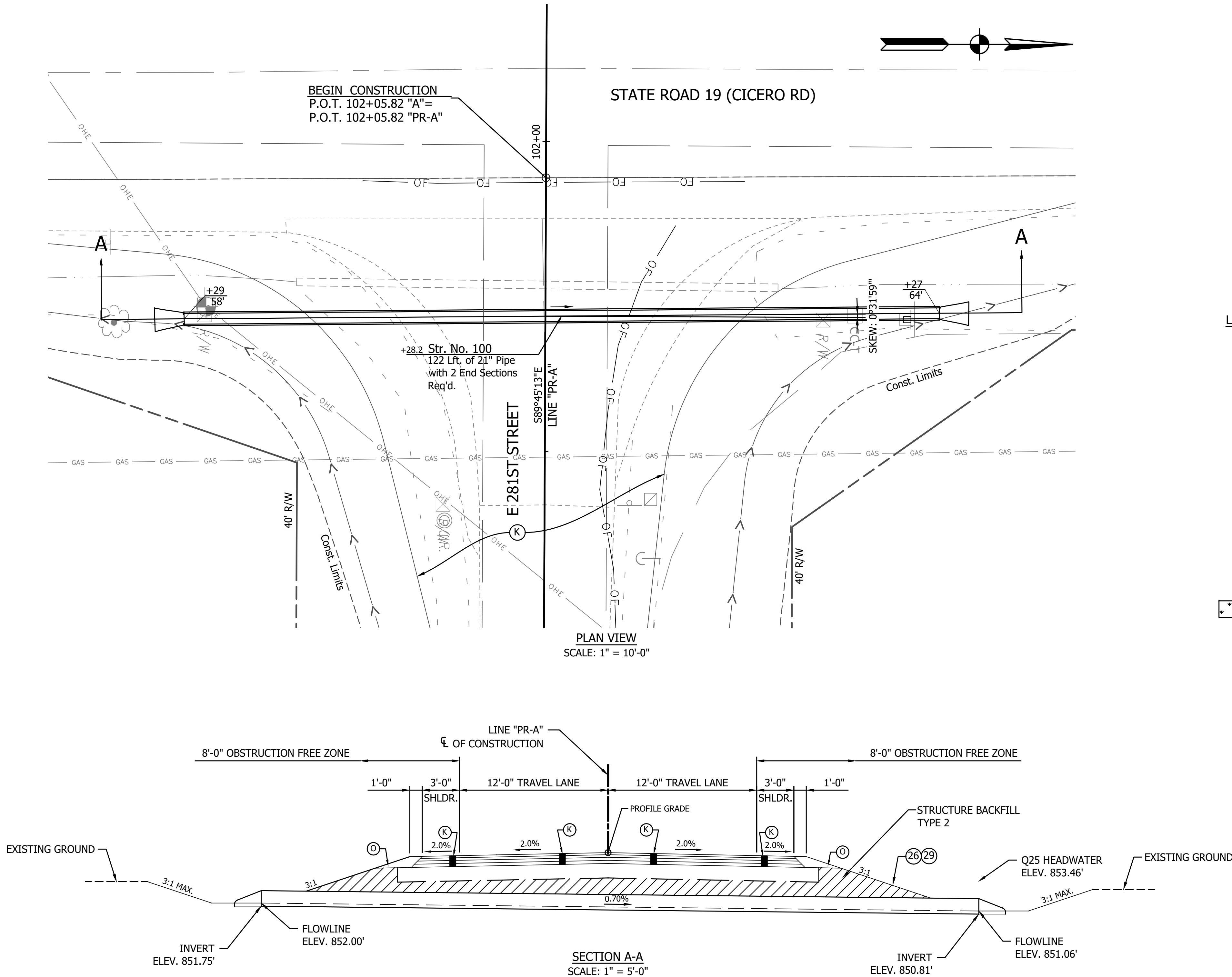


CONTROL POINTS		
POINT #	NORTHING	EASTING
338	226691.0996	789774.6339
339	226691.1065	789781.7722
340	226691.1161	789791.7722
341	226691.1257	789801.7722
342	226691.1353	789811.7722
343	226691.1450	789821.7722
344	226691.1546	789831.7722
345	226691.1642	789841.7722
346	226691.1738	789851.7722
347	226691.1834	789861.7722
348	226691.1930	789871.7722
349	226691.2026	789881.7722
350	226691.2122	789891.7721
351	226691.2219	789901.7721
352	226691.2315	789911.7721
353	226691.2411	789921.7721
354	226691.2507	789931.7721
355	226691.2603	789941.7721
356	226691.2699	789951.7721
357	226691.2801	789962.3510
358	226694.0996	789774.6310
359	226694.1065	789781.7693
360	226695.4464	789791.7680
361	226697.9827	789801.7656
362	226700.5190	789811.7632
363	226701.1546	789831.7626
364	226701.1642	789841.7626
365	226701.1738	789851.7626
366	226701.1834	789861.7625
367	226701.1930	789871.7625
368	226701.2026	789881.7625
369	226700.3373	789901.7634
370	226696.4002	789911.7672
371	226695.4368	789917.3470
372	226694.2507	789931.7692
373	226694.2603	789941.7692
374	226694.2699	789951.7692
375	226694.2801	789962.3481
376	226702.5129	789819.6229
377	226707.9779	789831.7560

CONTROL POINTS		
POINT #	NORTHING	EASTING
378	226711.1642	789841.7529
379	226711.1738	789851.7529
380	226711.1834	789861.7529
381	226711.1930	789871.7529
382	226711.2026	789881.7529
383	226711.2098	789889.2561
384	226704.9009	789895.2041
385	226715.1713	789839.7957
386	226721.1663	789843.9930
387	226721.1738	789851.7433
388	226721.1834	789861.7433
389	226721.1930	789871.7433
390	226721.2045	789883.7168
391	226731.1702	789847.9987
392	226731.1768	789854.8662
393	226731.1834	789861.7337
394	226731.1926	789871.2931
395	226731.2018	789880.8525
396	226725.2973	789882.4031
397	226737.1344	789849.0046
398	226741.1715	789849.3921
399	226741.1775	789855.5581
400	226741.1834	789861.7241
401	226741.1913	789869.9755
402	226741.1992	789878.2269
403	226751.1725	789850.3521
404	226751.1834	789861.7145
405	226751.1967	789875.6013
406	226761.1734	789851.3121
407	226761.1834	789861.7049
408	226761.1942	789872.9758
409	226771.1743	789852.2722
410	226771.1834	789861.6953
411	226770.1892	789870.6135
412	226777.0111	789852.8325
413	226777.1866	789861.6895
414	226777.3620	789870.5465

		RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE	
						1" = 30'		
						VERTICAL SCALE	DESIGNATION	
						N/A	2003031	
DESIGNED: MJR 12/18/2024					DRAWN: ESB 12/18/2024	SURVEY BOOK		SHEET
CHECKED: NDH 1/9/2025					CHECKED: NDH 1/9/2025	CONTRACT		PROJECT
						R-43619		2003031

PRINT DATE: 1/9/25
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EDIT DATE: 12/13/23 - 12:51 AM
EDITED BY: EBYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\103 GENERAL PLAN\RD-GENERAL PLAN-281ST ST.DWG



LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
 - (Cl) Compacted Aggregate No. 53
 - (D) HMA for Approaches, Type B
 - (K) Full Depth HMA Consisting of: 220 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5 mm, on 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate 19 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base 19 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base 19 mm, (minimum, or thickness necessary to match adjacent pavement) on 3" Compacted Aggregate Base, No. 53, on Subgrade Treatment Type IC
 - (K1) HMA for Structure Installation, Type B Consisting of: 440 LB/SYD HMA Intermediate, Type B, on 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
 - (O) Compacted Aggregate, No. 53
 - (R) HMA Milling & Overlay Consisting of, Milling, Profile 220 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5 mm
 - (S) Sawcut
 - (W) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of: 275 LB/SYD HMA Intermediate, Type B, on 330 LB/SYD HMA Base, Type B, on 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
 - (15) Curb and Gutter, Concrete
 - (27) Seeding Consisting of, Seed Mixture, R Fertilizer Mulching Material
 - (29) Erosion Control Blanket
- Wetland Delineation

HYDRAULIC DATA

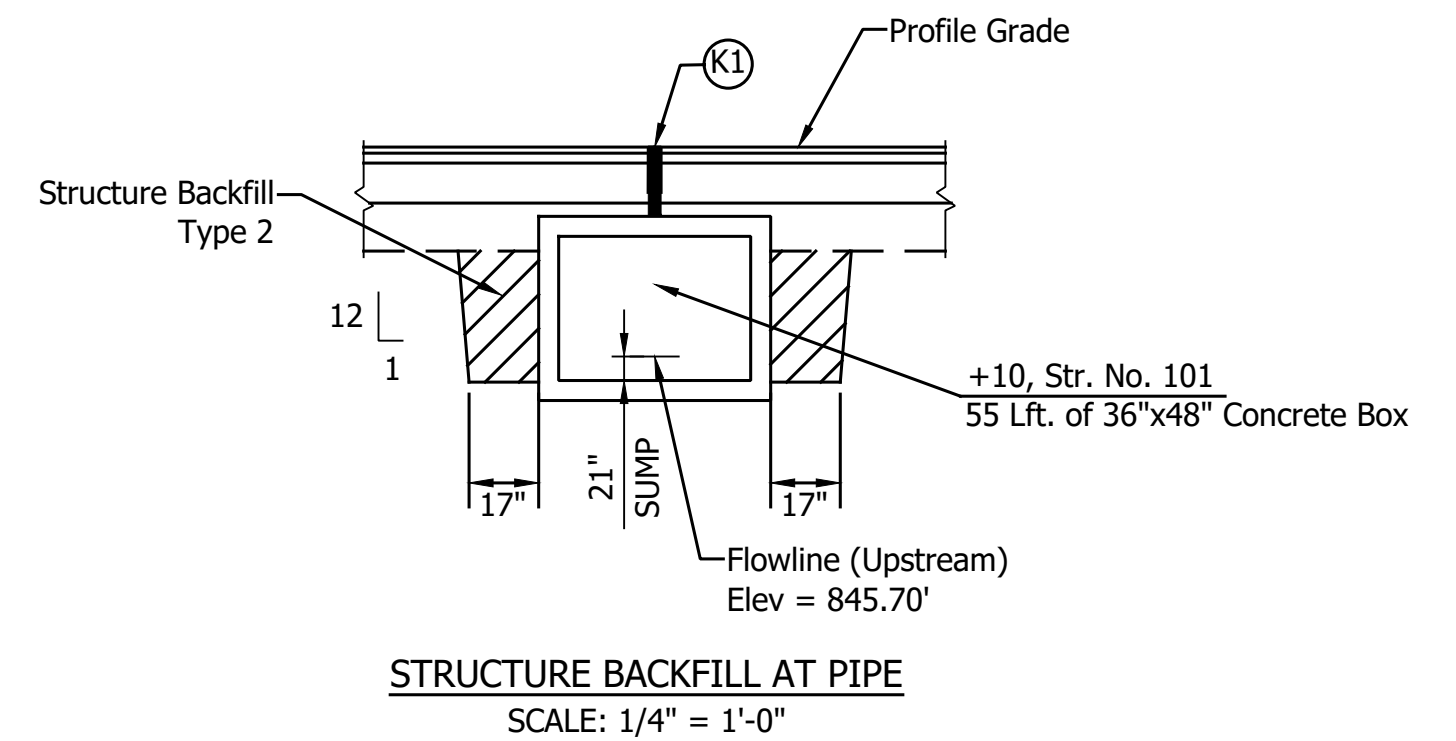
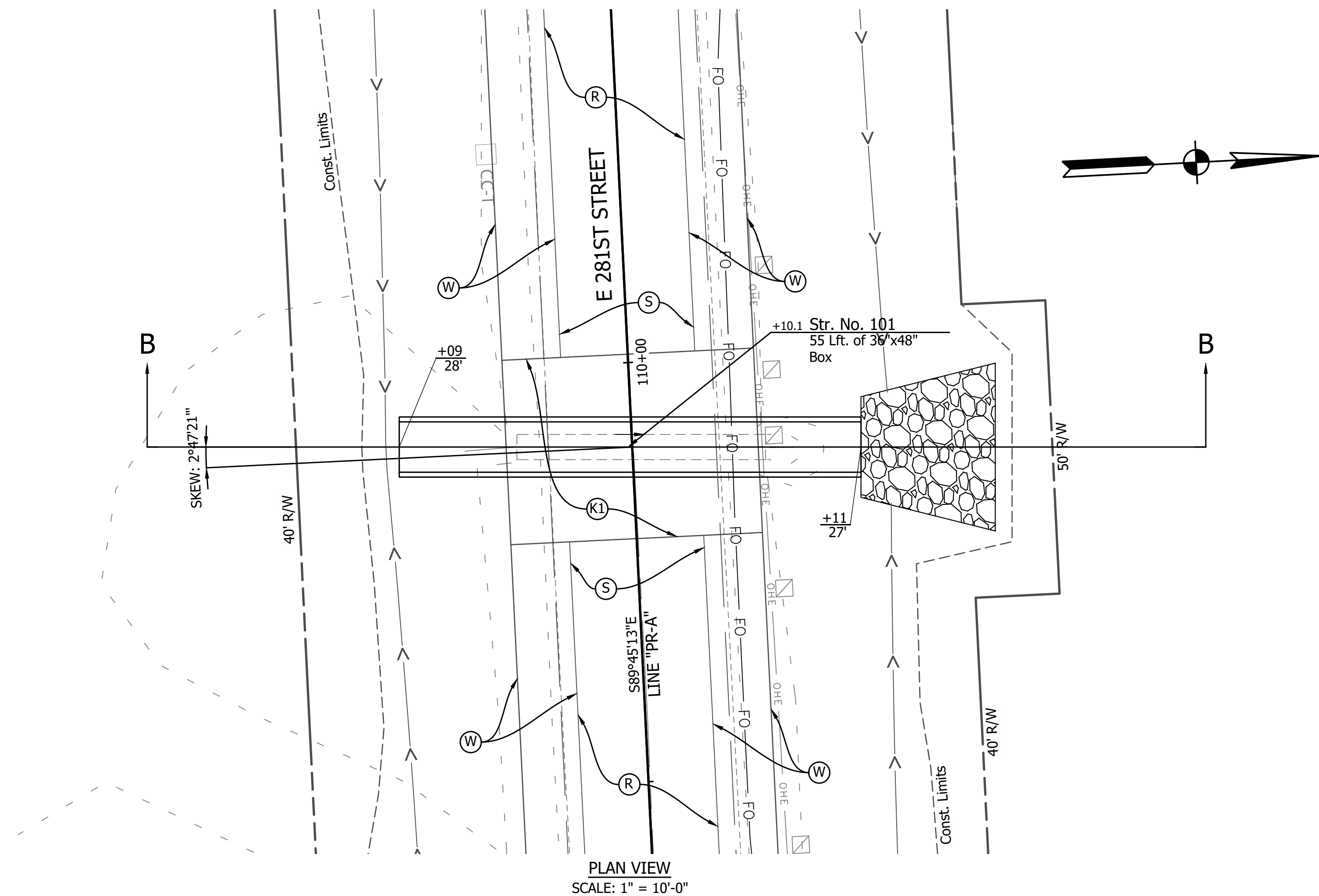
Drainage Area	= 2.94 acres
Q25 Discharge	= 6.89 cfs
Headwater Elevation at Q25	= 853.46 ft
Backwater at Q25	= 0.40 ft
Velocity at Q25	= 2.01 ft/s
Skew	= 00° 31' 59"
Existing Q25 Discharge	= 5.06 cfs
Existing Headwater Elevation at Q25	= 853.87 ft
Existing Backwater at Q25	= 1.64 ft
Existing Velocity at Q25	= 4.53 ft/s

NOTES:

- Contractor Shall Verify Existing Flowline Elevation to set the Appropriate Sump Depth.
- Reinforcement in the Pipe Shall be Epoxy Coated.

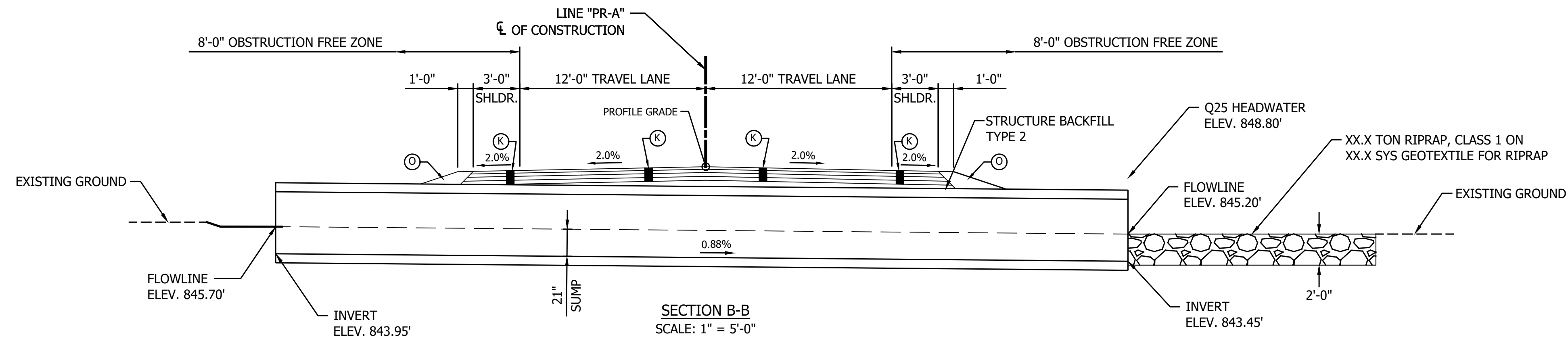
GENERAL PLAN
SMOOTH INTERIOR CONCRETE PIPE
SPAN: 1'-9" RISE: 1'-9"
30'-0" CLEAR ROADWAY SKEW: 00°31'59"
281ST ST
HAMILTON COUNTY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
				AS NOTED			
				VERTICAL SCALE		DESIGNATION	
				N/A		2003031	
DESIGNED: <u>ESB</u> 12/20/2024	DRAWN: <u>ESB</u> 12/20/2024	CULVERT DESIGN DETAILS STR. NO. 100		SURVEY BOOK		SHEET	
				54		of	179
CHECKED: <u>NDH</u> 1/9/2025	CHECKED: <u>NDH</u> 1/9/2025			CONTRACT		PROJECT	
				R-43619		2003031	



LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
 - (C1) Compacted Aggregate No. 53
 - (D) HMA for Approaches, Type B
 - (K) Full Depth HMA Consisting of:
 - 220 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5 mm, on
 - 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate 19 mm, on
 - 330 LB/SYD QC/QA HMA, 2, 58S, Base 19 mm, on
 - 330 LB/SYD QC/QA HMA, 2, 58S, Base 19 mm, (minimum, or thickness necessary to match adjacent pavement) on
 - 3" Compacted Aggregate Base, No. 53, on
 - Subgrade Treatment Type IC
 - (K1) HMA for Structure Installation, Type B Consisting of:
 - 440 LB/SYD HMA Intermediate, Type B, on
 - 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on
 - Subgrade Treatment, Type IC
 - (O) Compacted Aggregate, No. 53
 - (R) HMA Milling & Overlay Consisting of:
 - Milling, Profile
 - 220 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5 mm
 - (S) Sawcut
 - (W) Full Depth HMA Consisting of:
 - 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on
 - Widening with HMA Type B Consisting of:
 - 275 LB/SYD HMA Intermediate, Type B, on
 - 330 LB/SYD HMA Base, Type B, on
 - 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on
 - Subgrade Treatment, Type IC
 - (15) Curb and Gutter, Concrete
 - (27) Seeding Consisting of:
 - Seed Mixture, R
 - Fertilizer
 - Mulching Material
 - (29) Erosion Control Blanket

 Wetland Delineation

HYDRAULIC DATA

Drainage Area	= 49.89 acres
Q25 Discharge	= 66.57 cfs
Headwater Elevation at Q25	= 848.80 ft
Backwater at Q25	= 1.92 ft
Velocity at Q25	= 7.11 ft/s
Skew	= 2° 47' 21"
Existing Q25 Discharge	= 53.41 cfs
Existing Headwater Elevation at Q25	= 849.94 ft
Existing Backwater at Q25	= 4.12 ft
Existing Velocity at Q25	= 8.90 ft/s

NOTES:

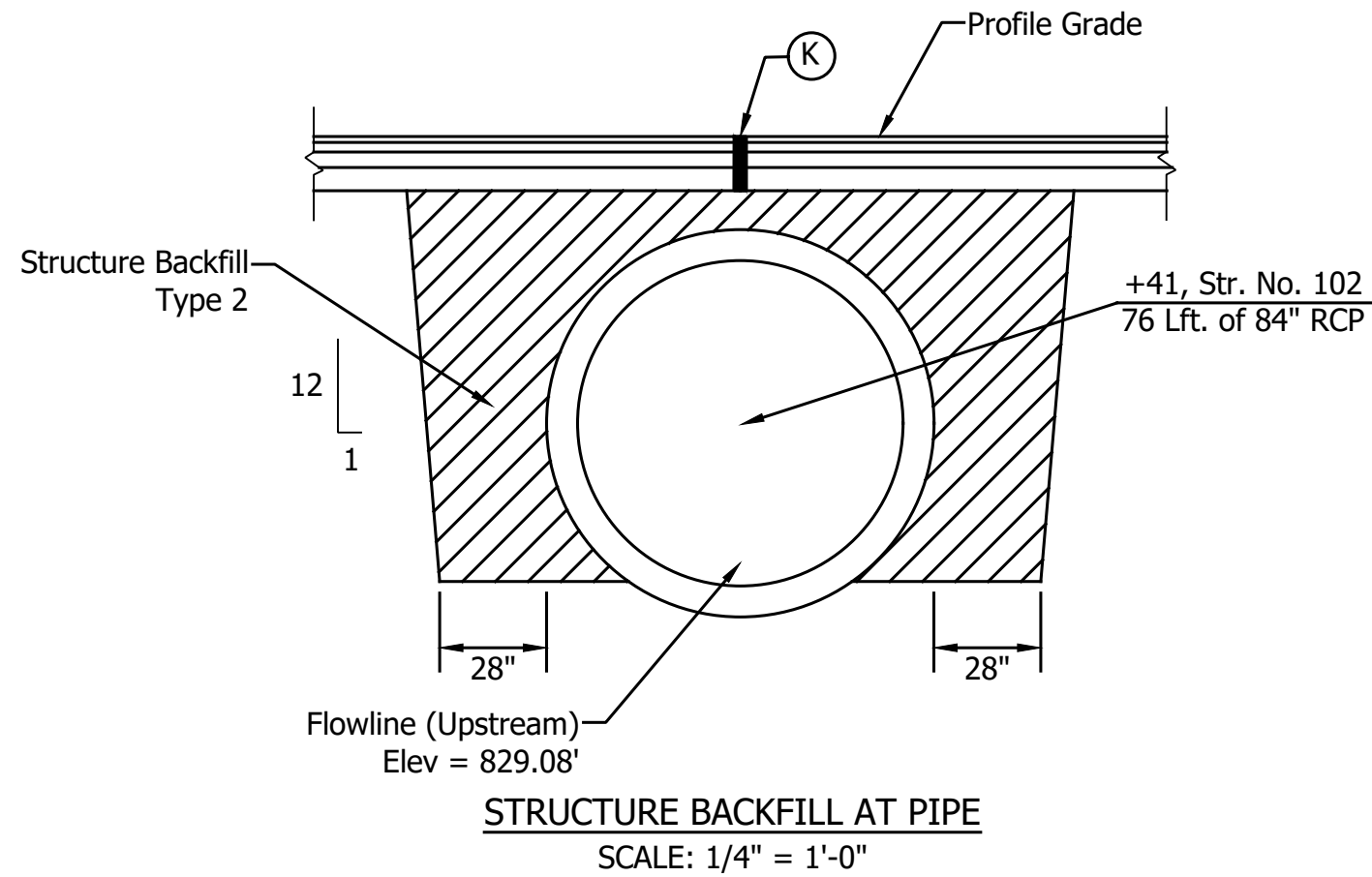
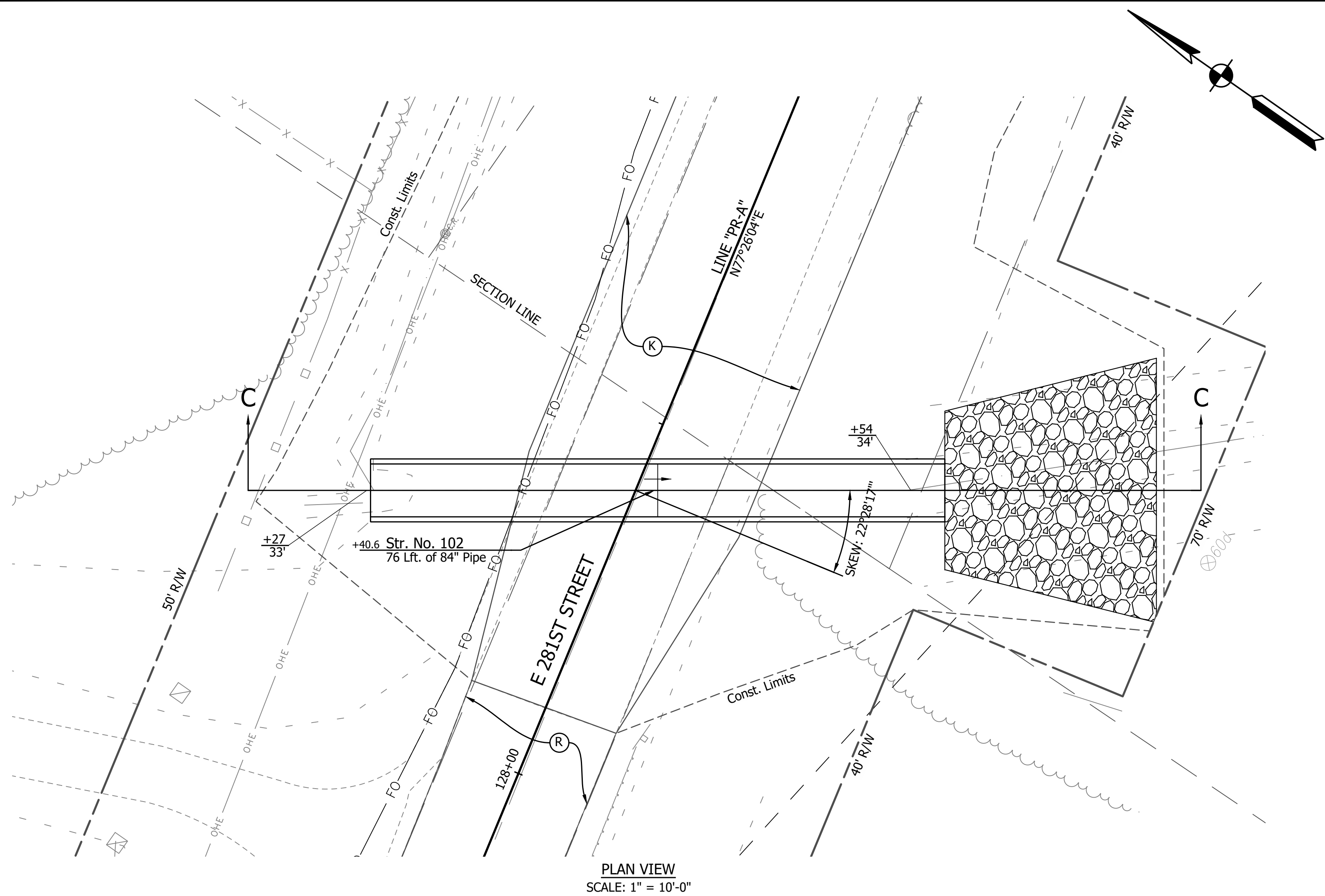
1. Contractor Shall Verify Existing Flowline Elevation to set the Appropriate Sump Depth.
2. Reinforcement in the Pipe Shall be Epoxy Coated.

GENERAL PLAN

SMOOTH INTERIOR CONCRETE BOX
SPAN: 4'-0" RISE: 3'-0"
30'-0" CLEAR ROADWAY SKEW: 2° 47' 21"
281ST ST
HAMILTON COUNTY

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION			HORIZONTAL SCALE		BRIDGE FILE		
				AS NOTED				
				VERTICAL SCALE		DESIGNATION		
				N/A		2003031		
DESIGNED: <u>ESB 12/20/2024</u>	DRAWN: <u>ESB 12/20/2024</u>	CULVERT DESIGN DETAILS STR. NO. 101			SURVEY BOOK		SHEET	
					55		of	179
CHECKED: <u>NDH 1/9/2025</u>	CHECKED: <u>NDH 1/9/2025</u>				CONTRACT		PROJECT	
					R-43619		2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\103 GENERAL PLAN\RD-GENERAL PLAN-281ST ST.DWG
EDIT DATE: 12/13/23 - 12:51 AM
EDITED BY: EBYERS



LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)

(CI) Compacted Aggregate No. 53

(D) HMA for Approaches, Type B

(K) Full Depth HMA Consisting of: 220 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5 mm, on 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate 19 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base 19 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base 19 mm, (minimum, or thickness necessary to match adjacent pavement) on 3" Compacted Aggregate Base, No. 53, on Subgrade Treatment Type IC

(K1) HMA for Structure Installation, Type B Consisting of: 440 LB/SYD HMA Intermediate, Type B, on 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (O) Compacted Aggregate, No. 53

(R) HMA Milling & Overlay Consisting of:, Milling, Profile 220 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5 mm

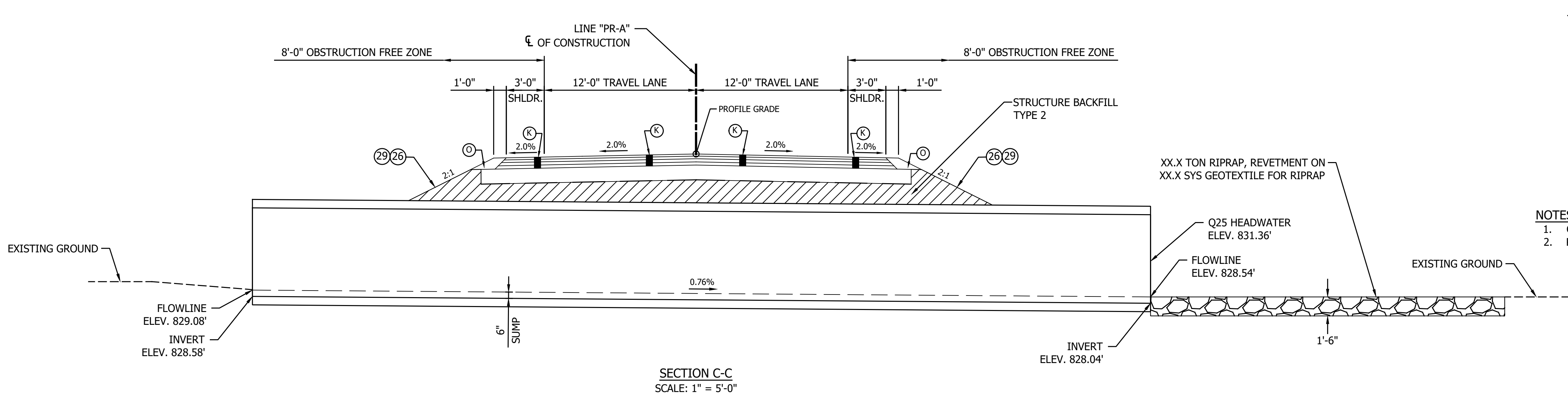
(S) Sawcut

(W) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of: 275 LB/SYD HMA Intermediate, Type B, on 330 LB/SYD HMA Base, Type B, on 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC

(15) Curb and Gutter, Concrete

(27) Seeding Consisting of:, Seed Mixture, R Fertilizer Mulching Material

(29) Erosion Control Blanket
- Wetland Delineation



HYDRAULIC DATA

Drainage Area	= 43.35 acres
Q25 Discharge	= 61.33 cfs
Headwater Elevation at Q25	= 831.36 ft
Backwater at Q25	= 0.05 ft
Velocity at Q25	= 6.86 ft/s
Skew	= 22° 28' 17"
Existing Q25 Discharge	= 61.33 cfs
Existing Headwater Elevation at Q25	= 832.41 ft
Existing Backwater at Q25	= 1.10 ft
Existing Velocity at Q25	= 6.11 ft/s

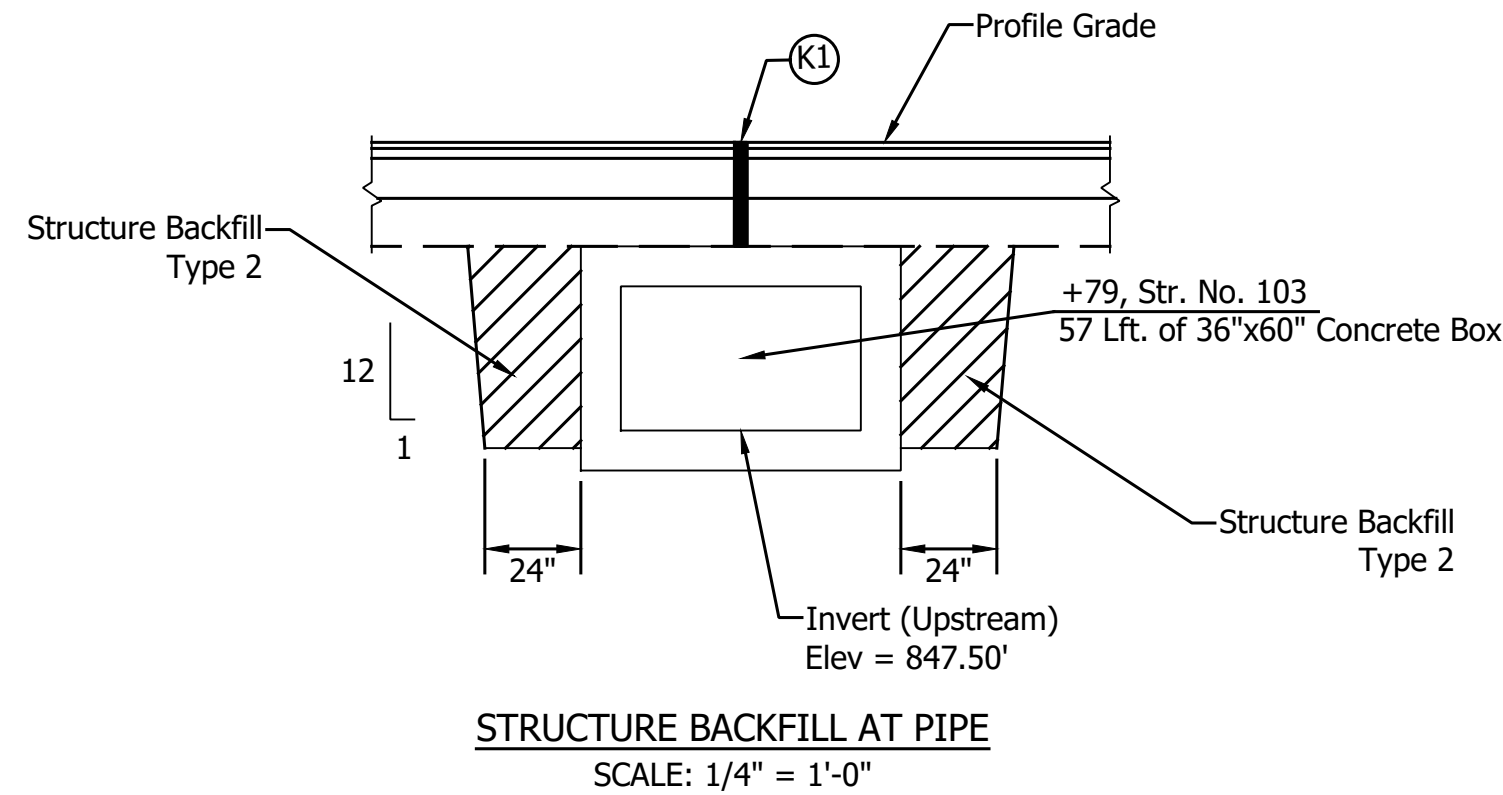
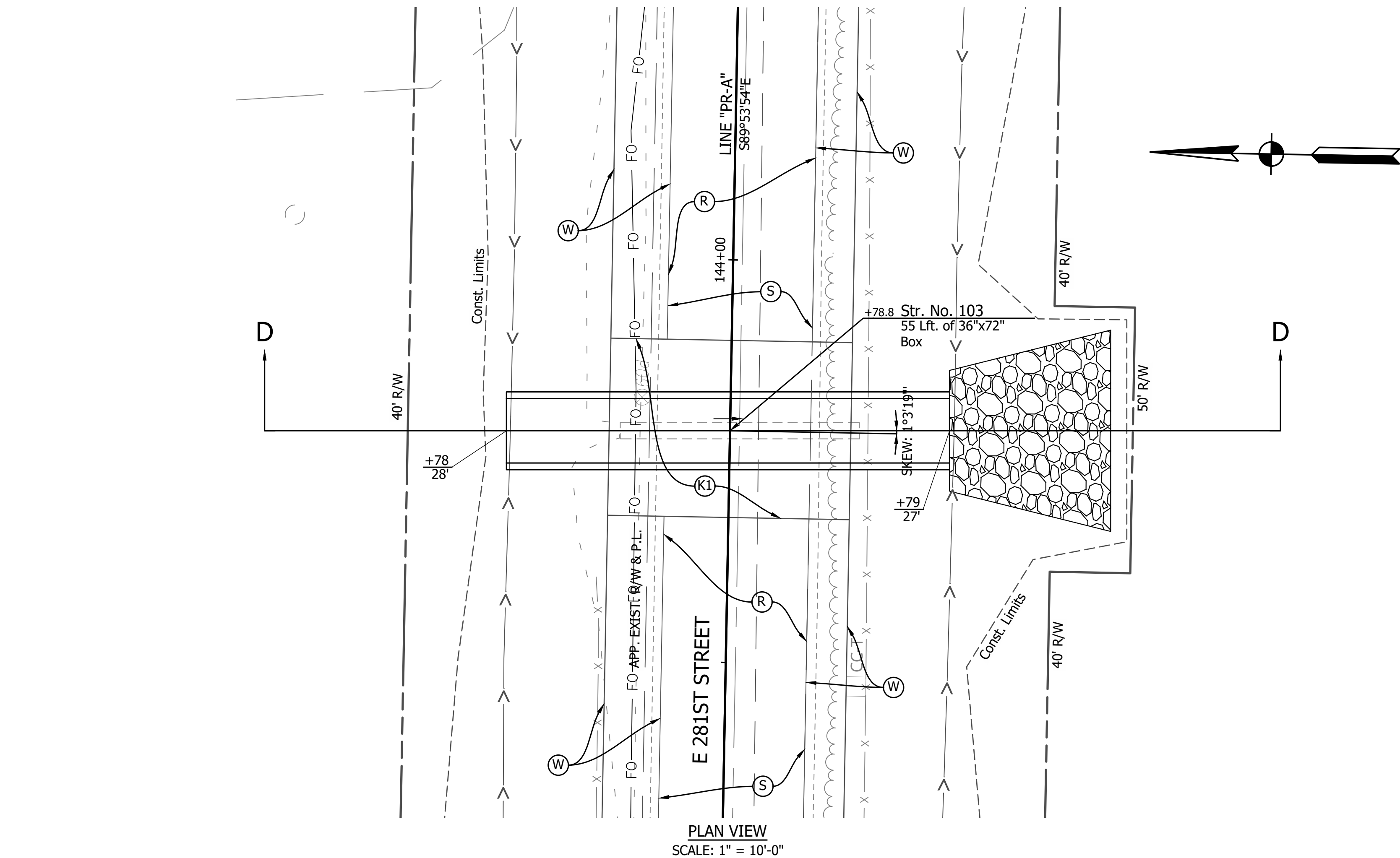
NOTES:

- Contractor Shall Verify Existing Flowline Elevation to set the Appropriate Sump Depth.
- Reinforcement in the Pipe Shall be Epoxy Coated.

GENERAL PLAN
SMOOTH INTERIOR CONCRETE PIPE
SPAN: 7'-0" RISE: 7'-0"
31'-7" CLEAR ROADWAY SKEW: 22° 28' 17"
281ST ST
HAMILTON COUNTY

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE		BRIDGE FILE	
						AS NOTED			
						VERTICAL SCALE		DESIGNATION	
						N/A		2003031	
DESIGNED: <u>ESB 12/20/2024</u>		DRAWN: <u>ESB 12/20/2024</u>		CULVERT DESIGN DETAILS STR. NO. 102		SURVEY BOOK		SHEET	
						56		of	179
CHECKED: <u>NDH 1/9/2025</u>		CHECKED: <u>NDH 1/9/2025</u>				CONTRACT		PROJECT	
						R-43619		2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\103 GENERAL PLAN\RD-GENERAL PLAN-281ST ST.DWG
EDITED BY: EBVERS
DATE: 12/13/23 - 12:51 AM



LEGEND

- (C) PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53)
- (CI) Compacted Aggregate No. 53
- (D) HMA for Approaches, Type B
- (K) Full Depth HMA Consisting of: 220 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5 mm, on 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate 19 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base 19 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base 19 mm, (minimum, or thickness necessary to match adjacent pavement) on 3" Compacted Aggregate Base, No. 53, on Subgrade Treatment Type IC
- (K1) HMA for Structure Installation, Type B Consisting of: 440 LB/SYD HMA Intermediate, Type B, on 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (O) Compacted Aggregate, No. 53
- (R) HMA Milling & Overlay Consisting of:, Milling, Profile 220 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5 mm
- (S) Sawcut
- (W) Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of: 275 LB/SYD HMA Intermediate, Type B, on 330 LB/SYD HMA Base, Type B, on 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC
- (15) Curb and Gutter, Concrete
- (27) Seeding Consisting of:, Seed Mixture, R Fertilizer Mulching Material
- (29) Erosion Control Blanket

Wetland Delineation

HYDRAULIC DATA

Drainage Area = 54.36 acres
Q25 Discharge = 74.92 cfs
Headwater Elevation at Q25 = 852.88 ft
Backwater at Q25 = 2.11 ft
Velocity at Q25 = 6.72 ft/s
Skew = 1° 3' 19"

Existing Q25 Discharge = 24.26 cfs
Existing Headwater Elevation at Q25 = 853.81 ft
Existing Backwater at Q25 = 3.79 ft
Existing Velocity at Q25 = 8.35 ft/s

NOTES:

- Contractor Shall Verify Existing Flowline Elevation to set the Appropriate Sump Depth.
- Reinforcement in the Pipe Shall be Epoxy Coated.

GENERAL PLAN
SMOOTH INTERIOR CONCRETE BOX
SPAN: 6'-0" RISE: 3'-0"
30'-0" CLEAR ROADWAY SKEW: 1° 3' 19"
281ST ST
HAMILTON COUNTY

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE

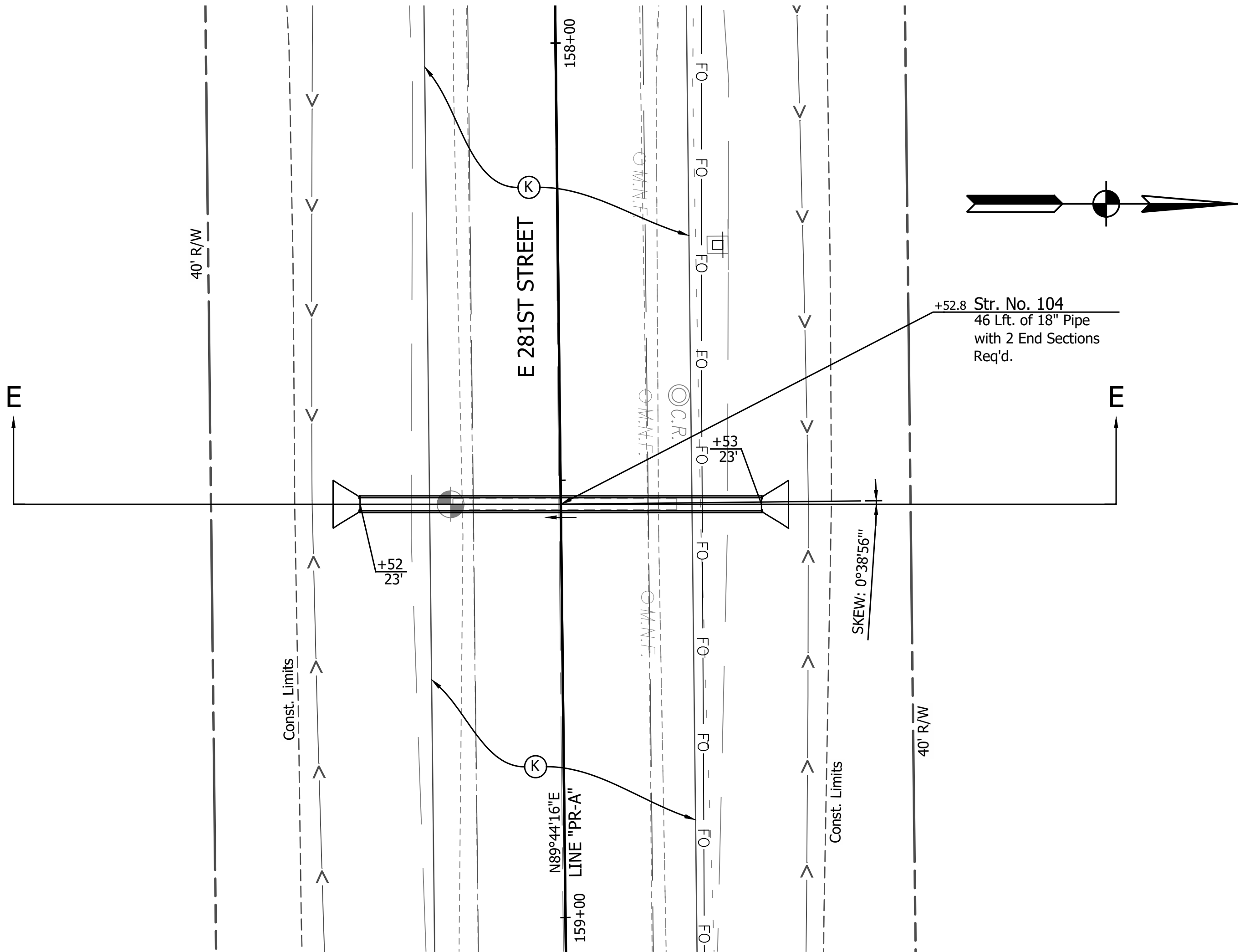
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DRAWN: ESB 12/20/2024
CHECKED: NDH 1/9/2025
CHECKED: NDH 1/9/2025

INDIANA
DEPARTMENT OF TRANSPORTATION

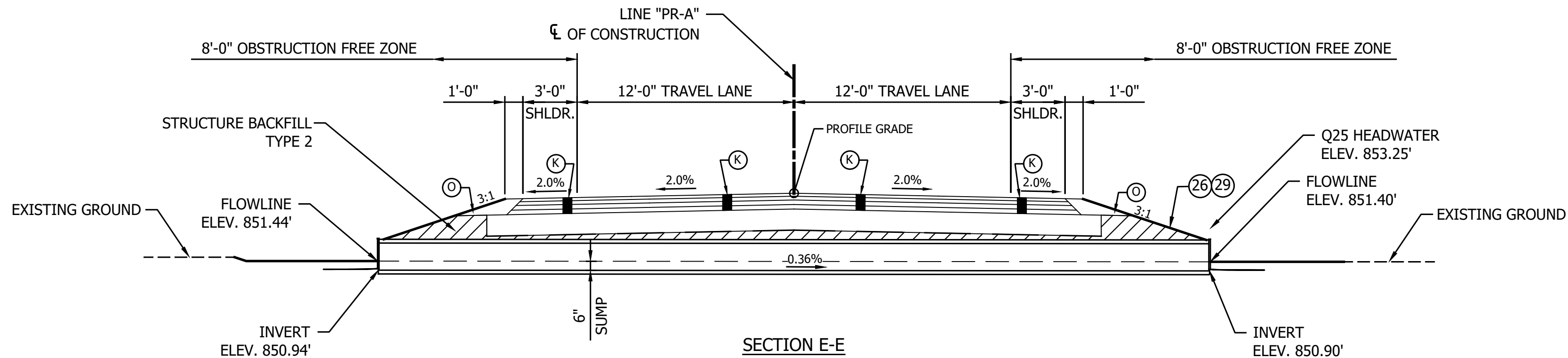
CULVERT DESIGN DETAILS
STR. NO. 103

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	
VERTICAL SCALE	DESIGNATION
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SURVEY BOOK	SHEET
	57 of 179
CONTRACT	PROJECT
R-43619	2003031

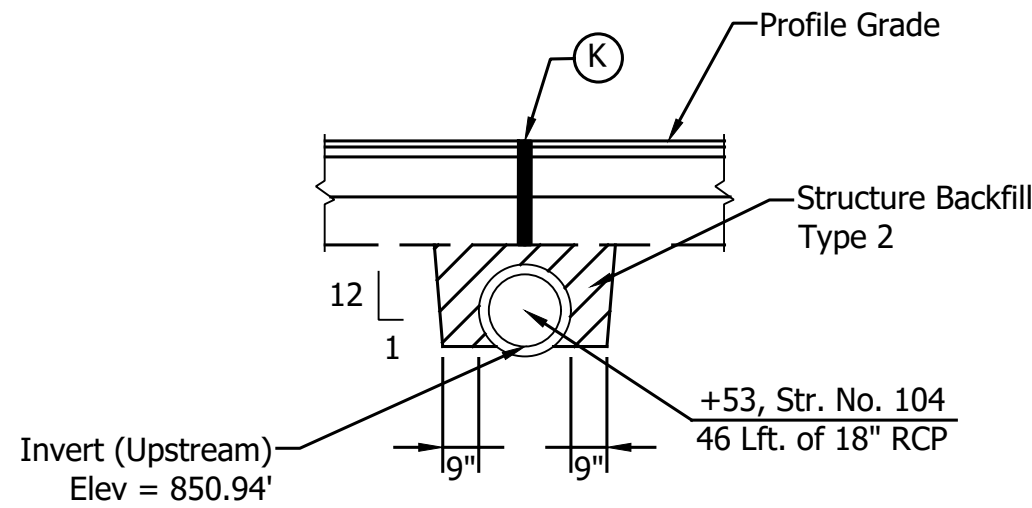
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EDITED BY: EBVERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\103 GENERAL PLAN\RD-GENERAL PLAN-281ST ST.DWG



PLAN VIEW
SCALE: 1" = 10'-0"



SECTION E-E
SCALE: 1" = 5'-0"



STRUCTURE BACKFILL AT PIPE
SCALE: 1/4" = 1'-0"

LEGEND

- | | | | |
|------|---|------|--|
| (C) | PCCP for Approaches, 6 in, on Dense Graded Subbase, 6 in, on Subgrade Treatment Type II (6 in Coarse Aggregate No. 53) | (O) | Compacted Aggregate, No. 53 |
| (Cl) | Compacted Aggregate No. 53 | (R) | HMA Milling & Overlay Consisting of, Milling, Profile 220 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5 mm |
| (D) | HMA for Approaches, Type B | (S) | Sawcut |
| (K) | Full Depth HMA Consisting of: 220 LB/SYD QC/QA HMA, 2, 58S, Surface 9.5 mm, on 275 LB/SYD QC/QA HMA, 2, 58S, Intermediate 19 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base 19 mm, on 330 LB/SYD QC/QA HMA, 2, 58S, Base 19 mm, (minimum, or thickness necessary to match adjacent pavement) on 3" Compacted Aggregate Base, No. 53, on Subgrade Treatment Type IC | (W) | Full Depth HMA Consisting of: 165 LB/SYD QC/QA HMA, 2, 58S, Surface, 9.5 mm, on Widening with HMA Type B Consisting of: 275 LB/SYD HMA Intermediate, Type B, on 330 LB/SYD HMA Base, Type B, on 330 LB/SYD HMA Base, Type B, (minimum thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC |
| (K1) | HMA for Structure Installation, Type B Consisting of: 440 LB/SYD HMA Intermediate, Type B, on 660 LB/SYD HMA Base, Type B, (minimum, or thickness necessary to match adjacent pavement) on Subgrade Treatment, Type IC | (15) | Curb and Gutter, Concrete |
| | | (27) | Seeding Consisting of, Seed Mixture, R Fertilizer Mulching Material |
| | | (29) | Erosion Control Blanket |
- Wetland Delineation

HYDRAULIC DATA

Drainage Area	= 46.15 acres
Q25 Discharge	= 52.32 cfs
Headwater Elevation at Q25	= 853.25 ft
Backwater at Q25	= 1.81 ft
Velocity at Q25	= 6.29 ft/s
Skew	= 00° 38' 56"

Existing Q25 Discharge	= 3.57 cfs
Existing Headwater Elevation at Q25	= 853.34 ft
Existing Backwater at Q25	= 2.18 ft
Existing Velocity at Q25	= 4.84 ft/s

NOTES:

- Contractor Shall Verify Existing Flowline Elevation to set the Appropriate Sump Depth.
- Reinforcement in the Pipe Shall be Epoxy Coated.

GENERAL PLAN
SMOOTH INTERIOR PIPE
SPAN: 1'-6" RISE: 1'-6"
30'-0" CLEAR ROADWAY SKEW: 00° 38' 56"
281ST ST
HAMILTON COUNTY

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
DATE

DESIGNED: ESB 12/20/2024
DRAWN: ESB 12/20/2024

CHECKED: NDH 1/9/2025
CHECKED: NDH 1/9/2025

INDIANA
DEPARTMENT OF TRANSPORTATION

CULVERT DESIGN DETAILS
STR. NO. 104

HORIZONTAL SCALE
AS NOTED

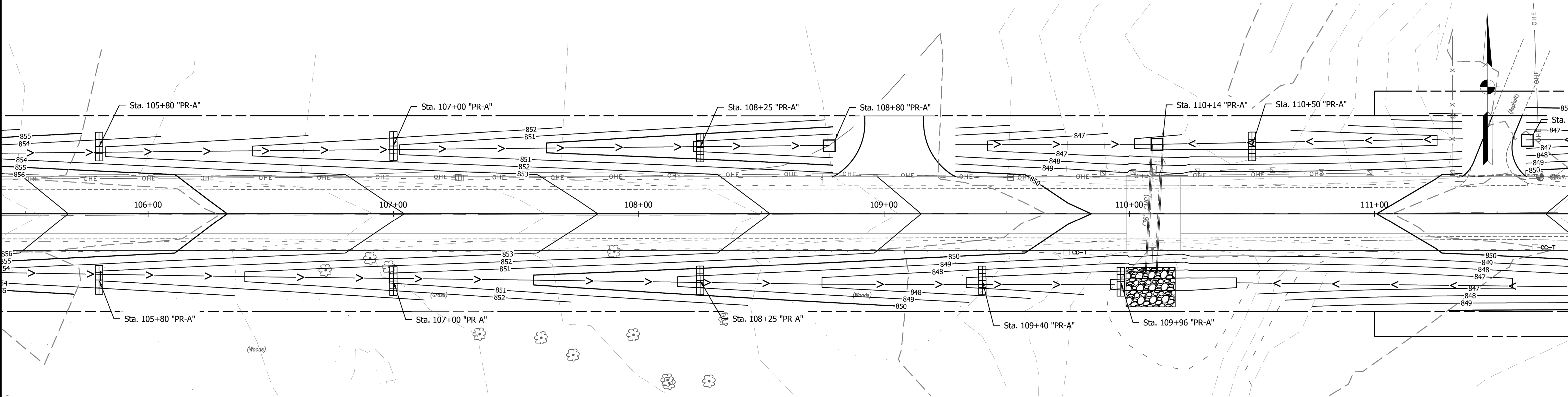
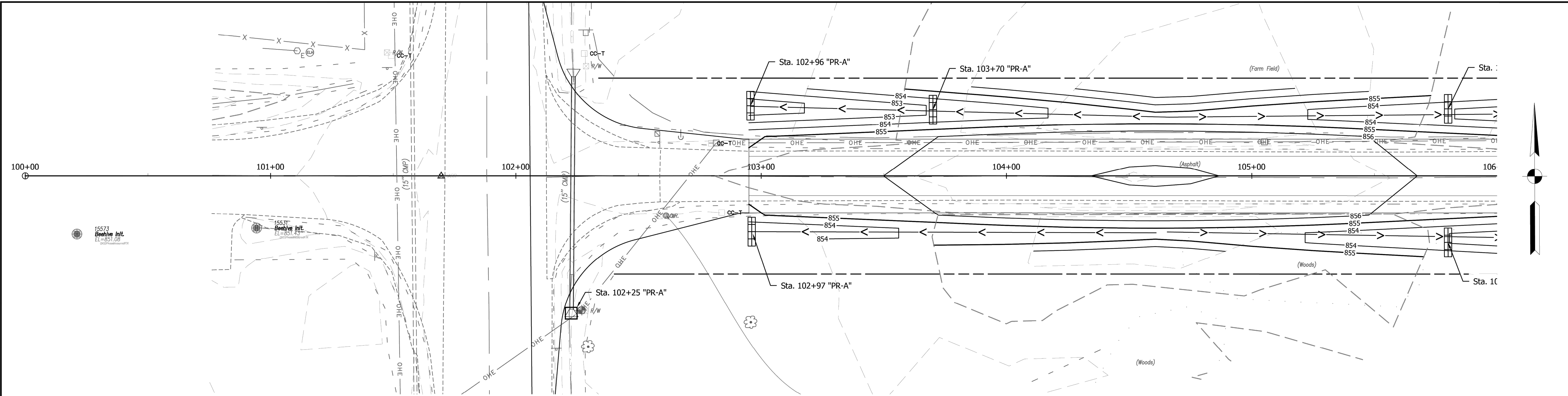
VERTICAL SCALE
N/A

SURVEY BOOK
R-43619

SHEET
2003031

58 of 179

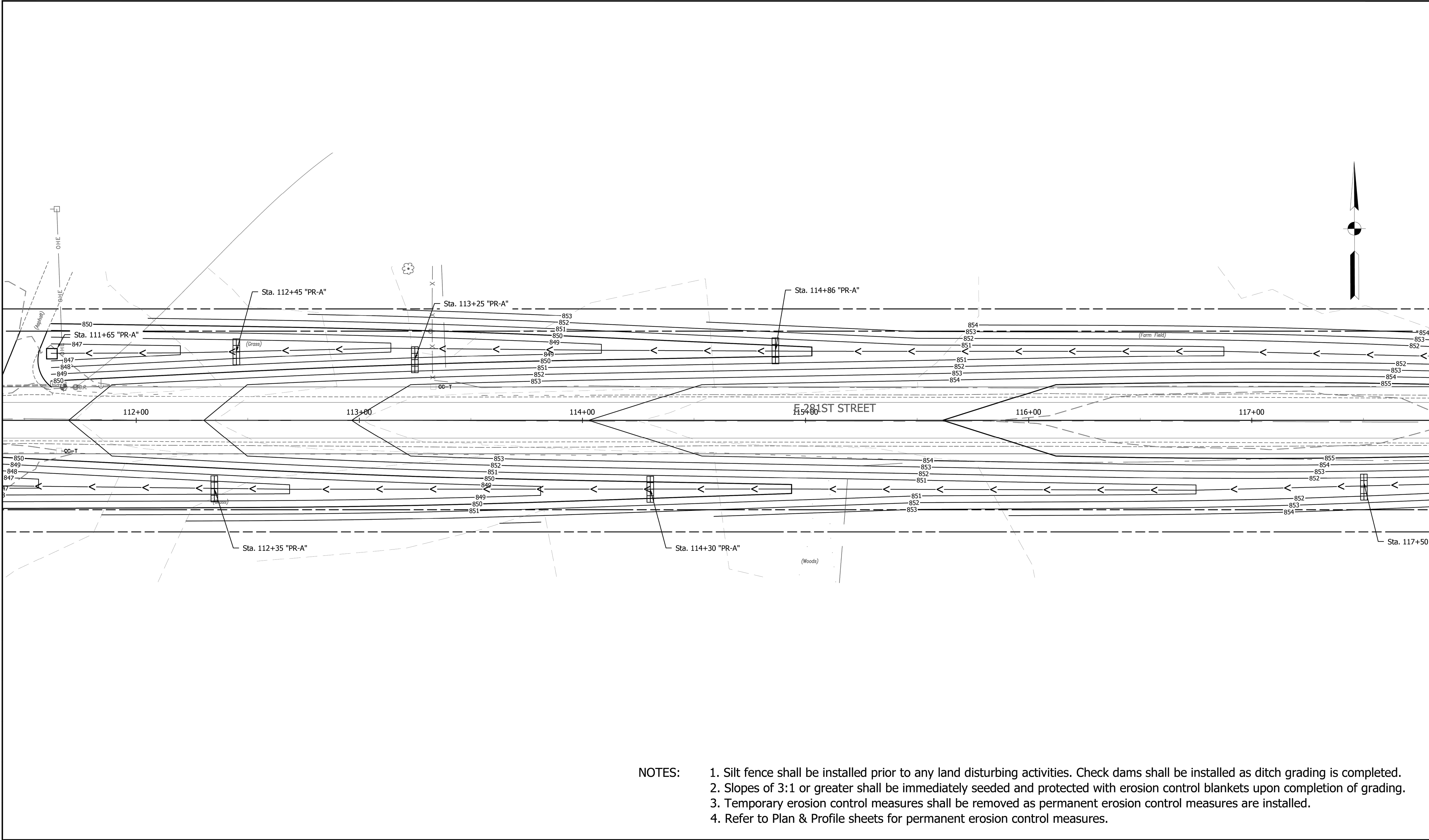
PROJECT
2003031



NOTES:

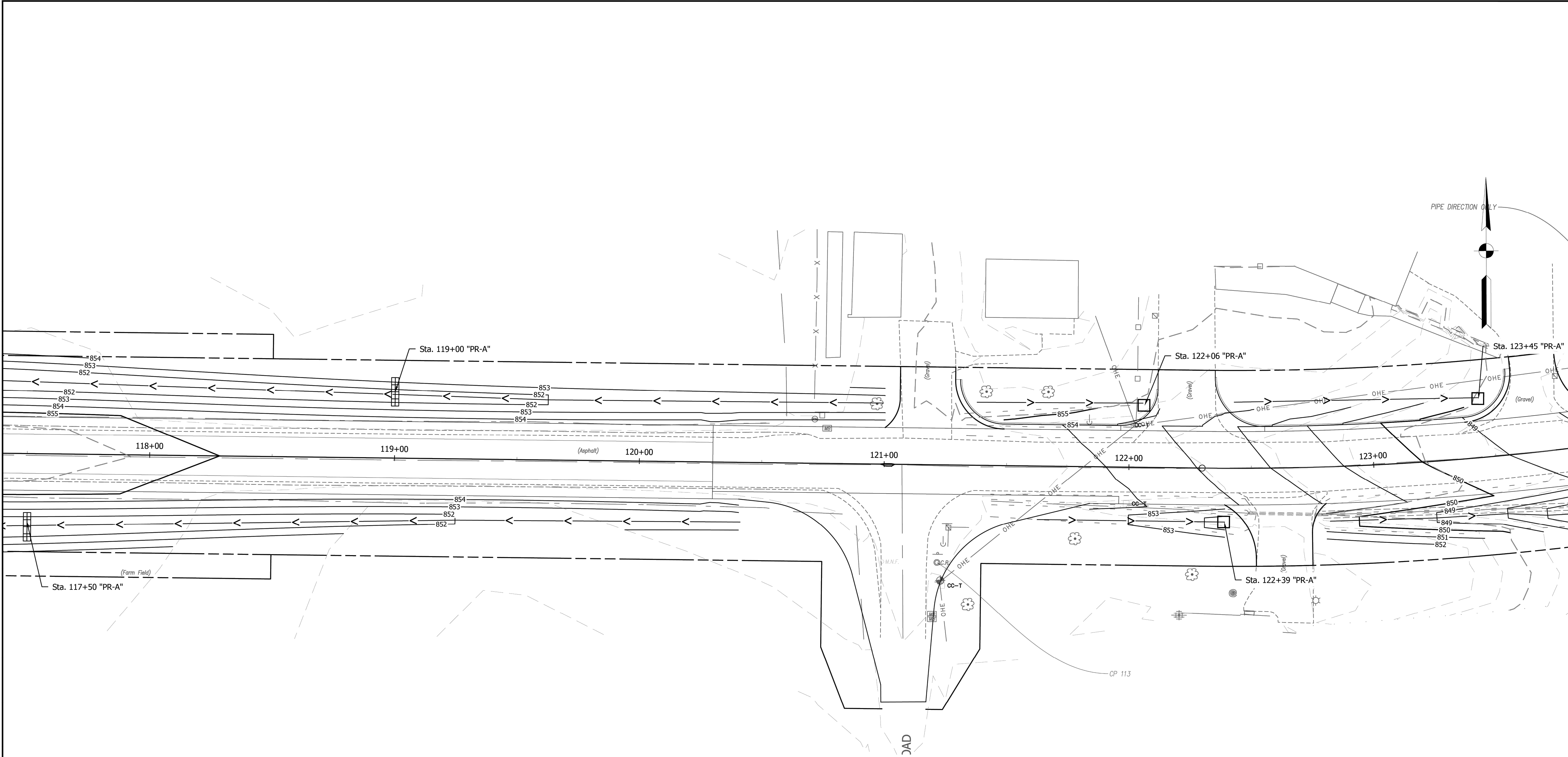
1. Silt fence shall be installed prior to any land disturbing activities. Check dams shall be installed as ditch grading is completed.
2. Slopes of 3:1 or greater shall be immediately seeded and protected with erosion control blankets upon completion of grading.
3. Temporary erosion control measures shall be removed as permanent erosion control measures are installed.
4. Refer to Plan & Profile sheets for permanent erosion control measures.

Traversable Check Dam PERMANENT SEEDING AND EROSION CONTROL BLANKET RIP-RAP INLET PROTECTION CONSTRUCTION ENTRANCE	RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION EROSION CONTROL PLAN		HORIZONTAL SCALE		BRIDGE FILE	
					1" = 50'		DESIGNATION	
					VERTICAL SCALE		2003031	
					SURVEY BOOK		SHEET	
					CONTRACT		60 of 179	
R-43619		2003031						



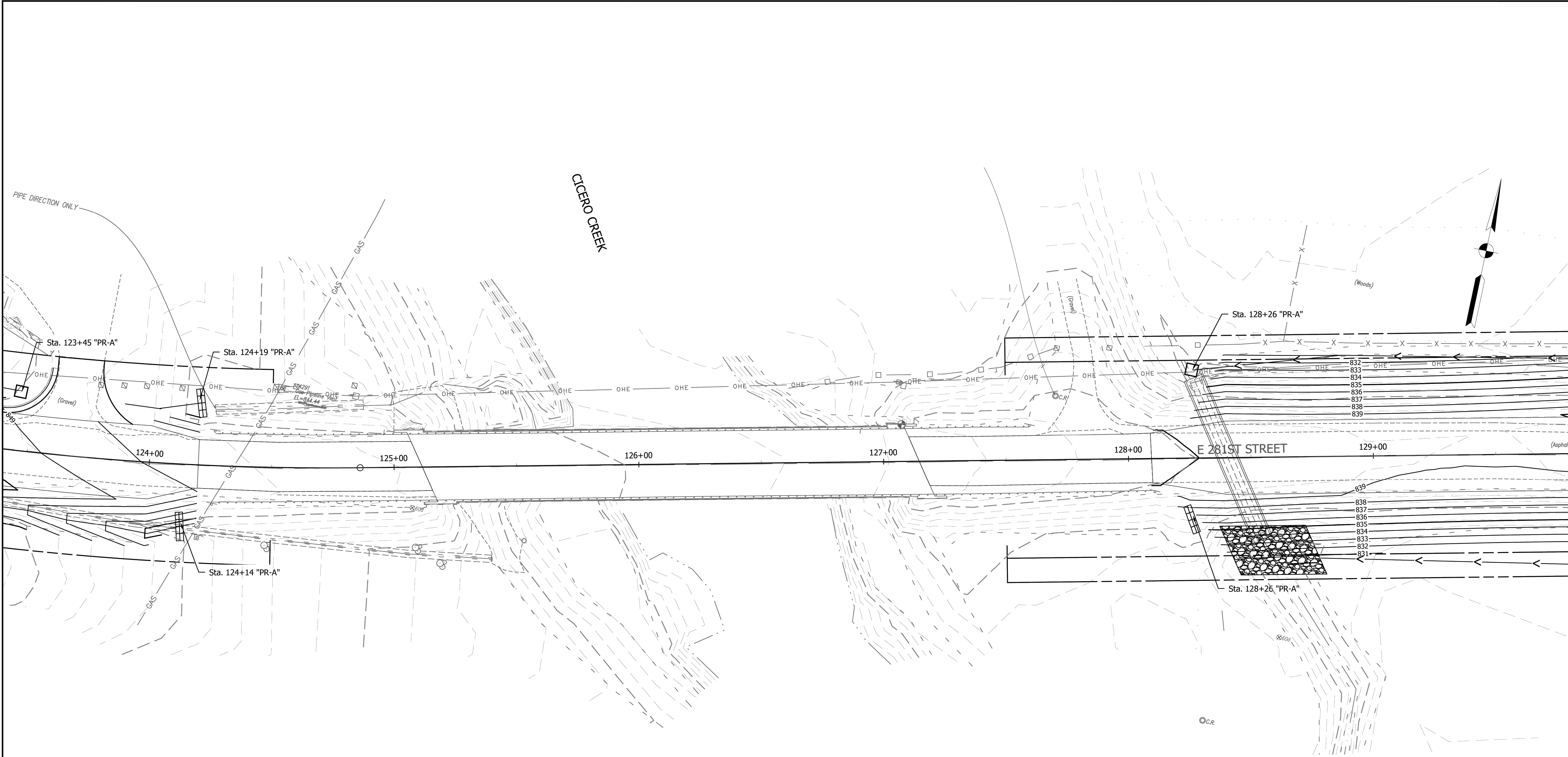
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										RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION				HORIZONTAL SCALE		BRIDGE FILE	
																EROSION CONTROL PLAN				1" = 50'			
										VERTICAL SCALE		DESIGNATION						SURVEY BOOK		SHEET			
																		61		of		179	
										CONTRACT		R-43619										2003031	



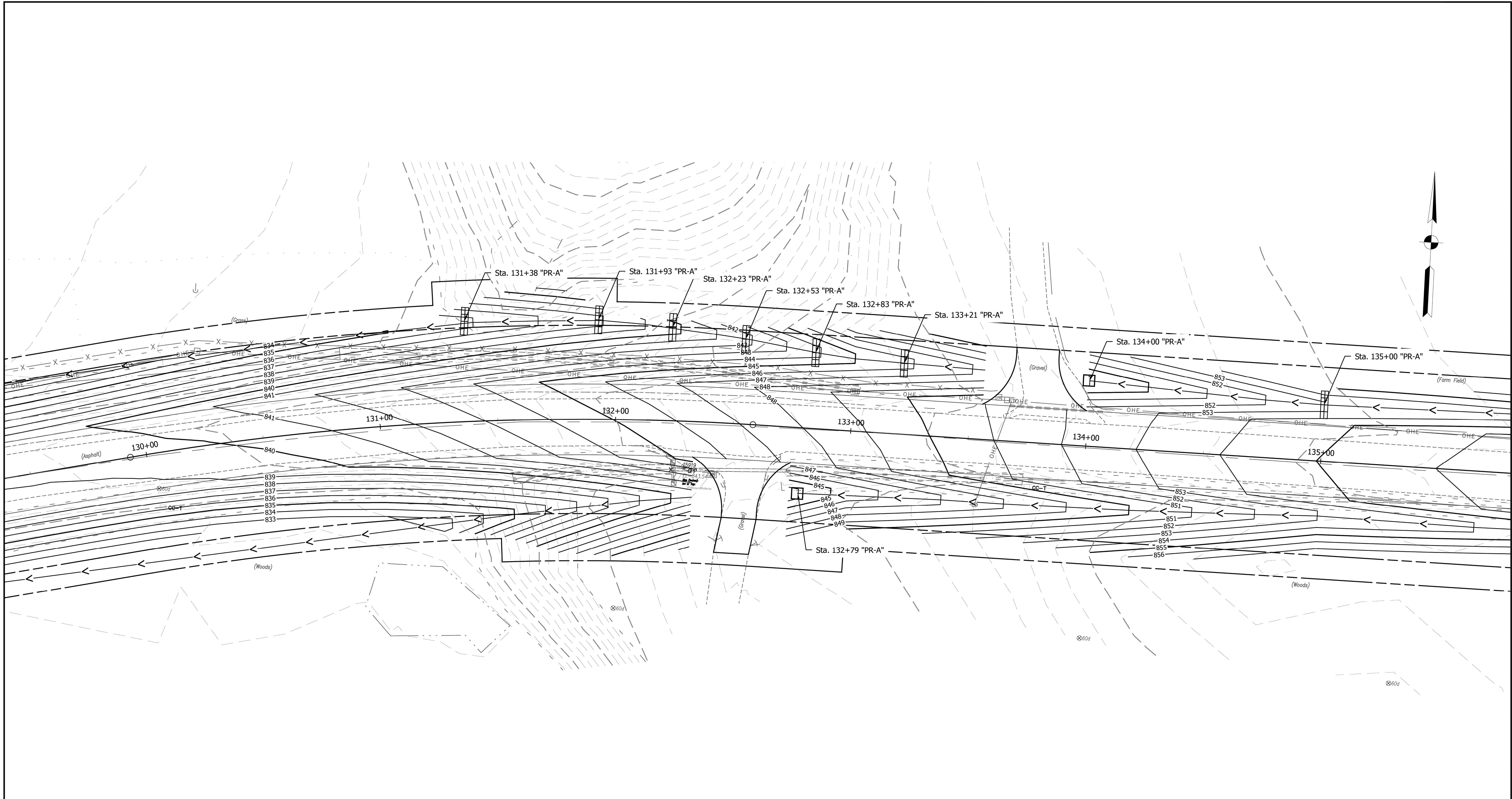
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Traversable Check Dam PERMANENT SEEDING AND EROSION CONTROL BLANKET RIP-RAP INLET PROTECTION CONSTRUCTION ENTRANCE										RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 50'		BRIDGE FILE	
												VERTICAL SCALE		DESIGNATION 2003031			
												SURVEY BOOK		SHEET 62 of 179			
												CONTRACT R-43619		2003031			



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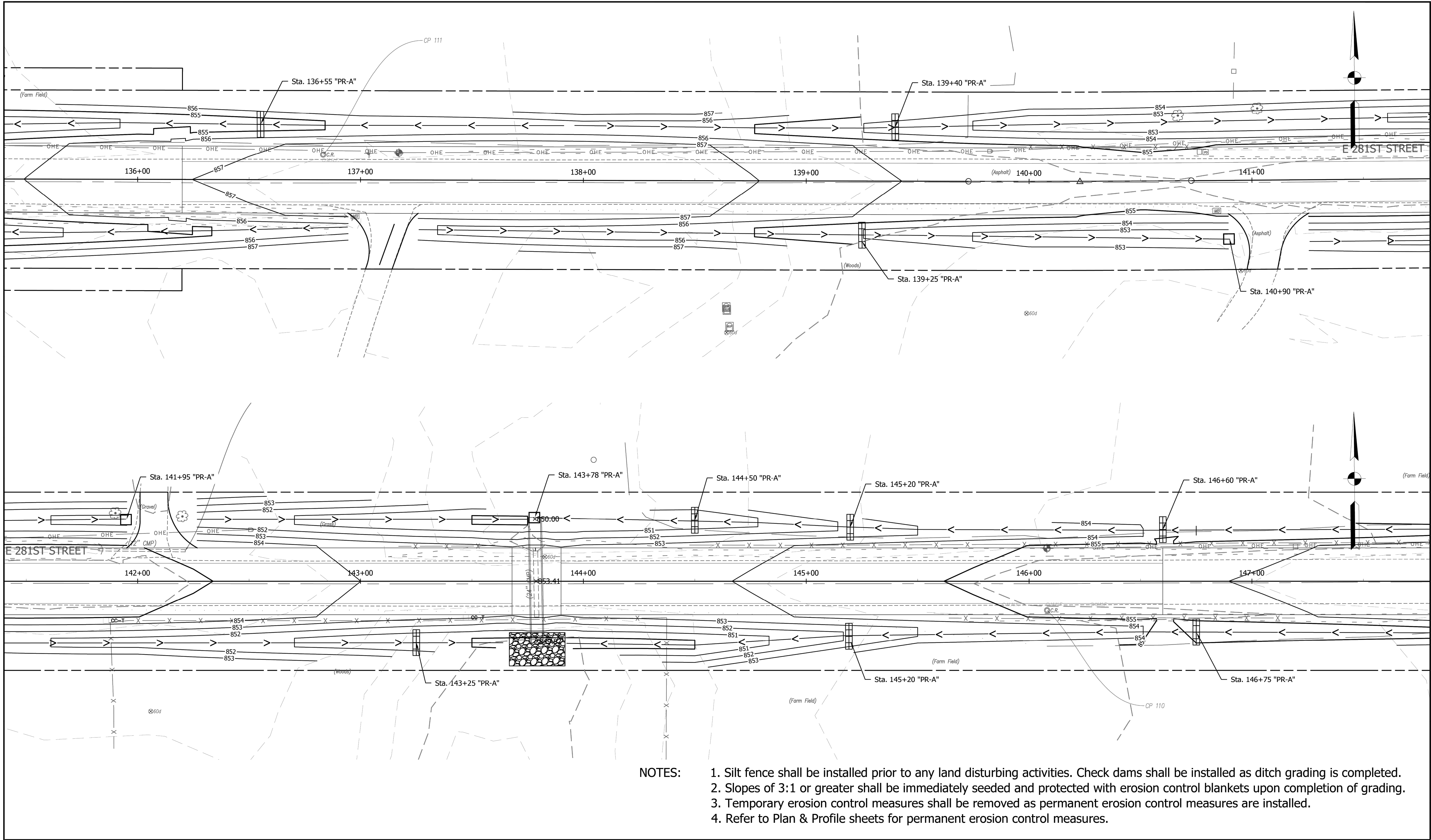
Traversable Check Dam									
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NOTES:

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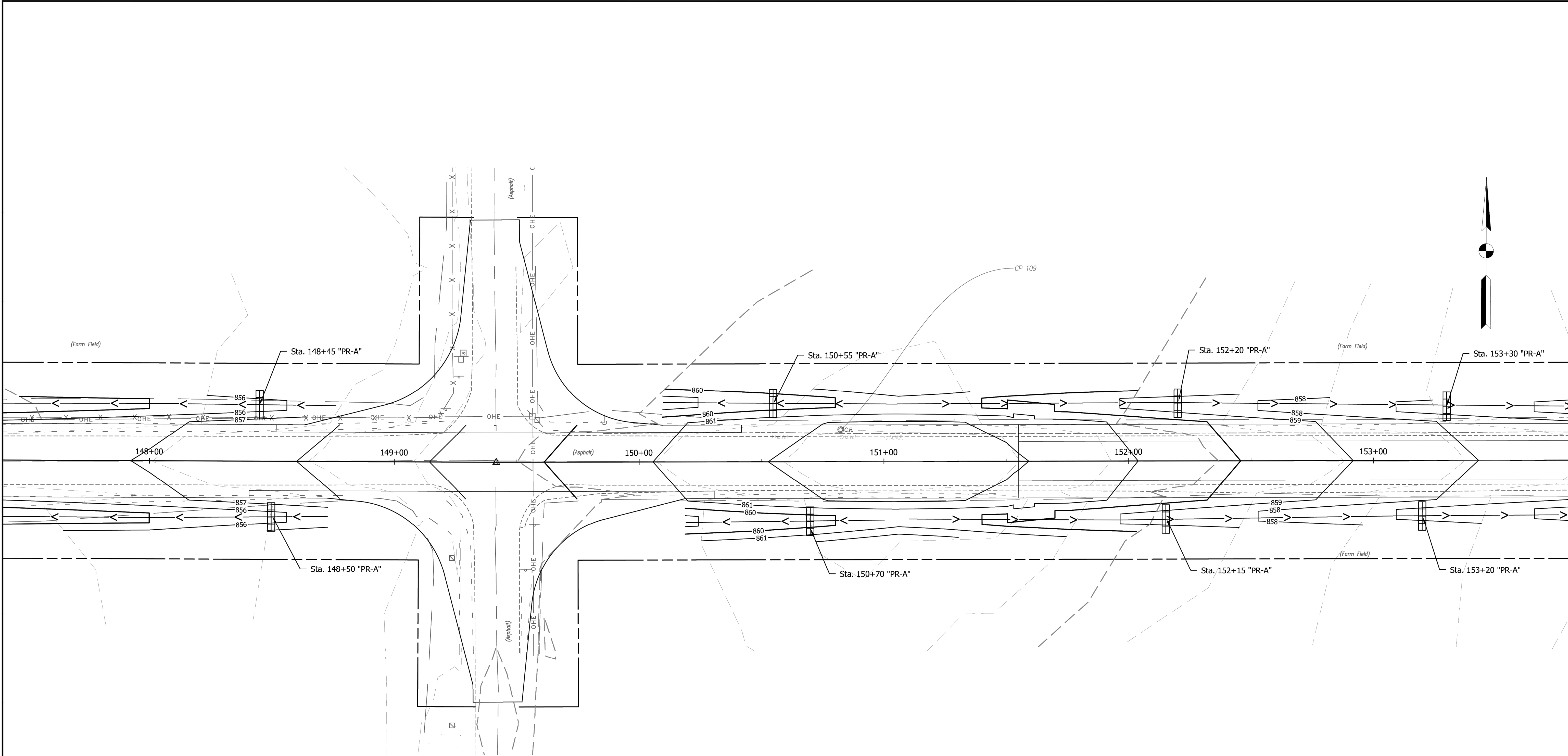
Traversable Check Dam PERMANENT SEEDING AND EROSION CONTROL BLANKET RIP-RAP INLET PROTECTION CONSTRUCTION ENTRANCE	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 50'		BRIDGE FILE	
	DESIGNED: <u>MRR</u> _____ DRAWN: <u>MRR</u> _____		EROSION CONTROL PLAN		VERTICAL SCALE		DESIGNATION 2003031	
	CHECKED: <u>JRF</u> _____ CHECKED: <u>JRF</u> _____				SURVEY BOOK		SHEET	
					64		of 179	
					CONTRACT R-43619		2003031	



NOTES:

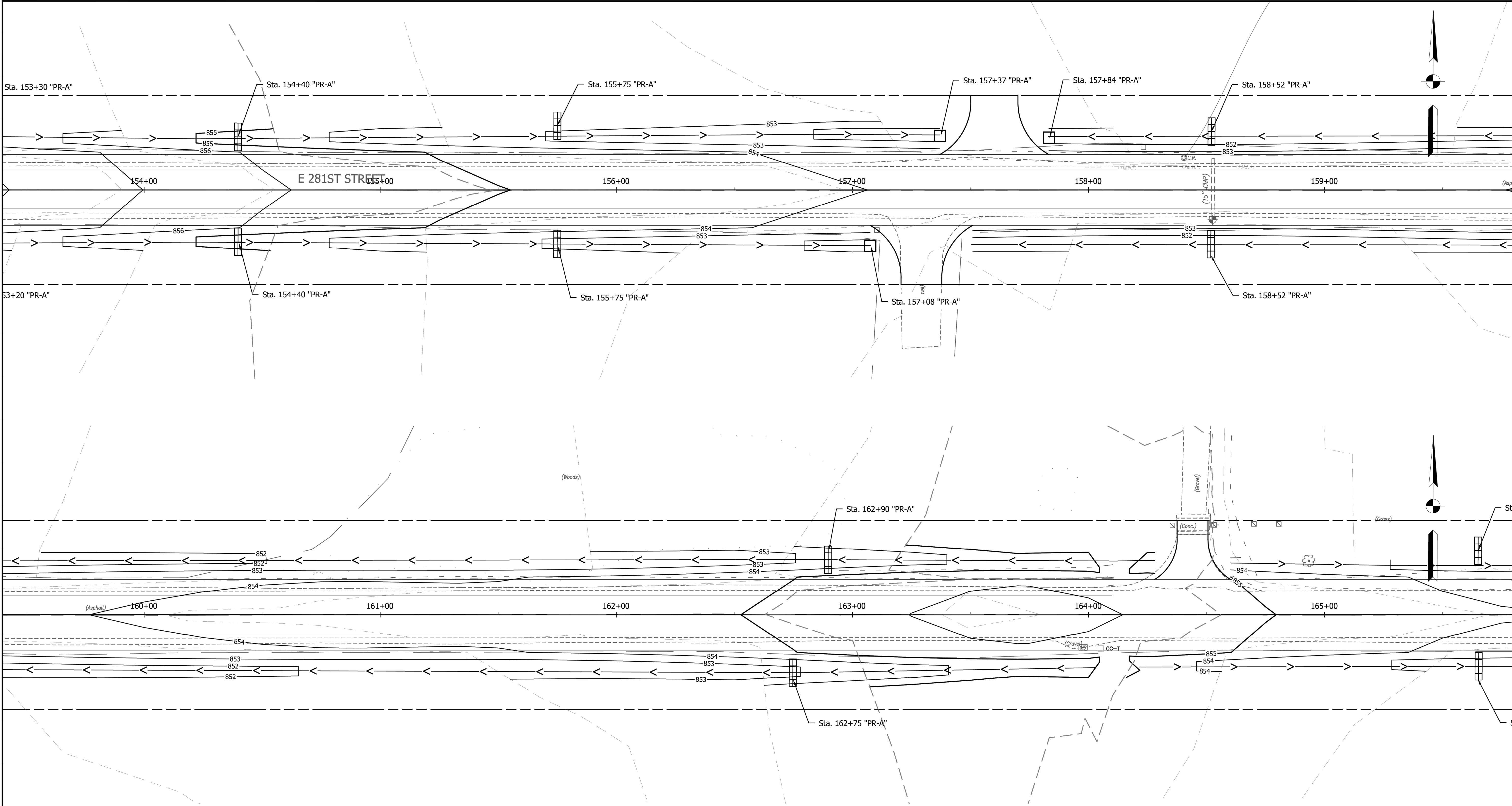
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Traversable Check Dam PERMANENT SEEDING AND EROSION CONTROL BLANKET RIP-RAP INLET PROTECTION CONSTRUCTION ENTRANCE		RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE		
					1" = 50'		DESIGNATION		
						VERTICAL SCALE		2003031	
						SURVEY BOOK		SHEET	
						65		of 179	
						CONTRACT			
						R-43619		2003031	
				EROSION CONTROL PLAN					



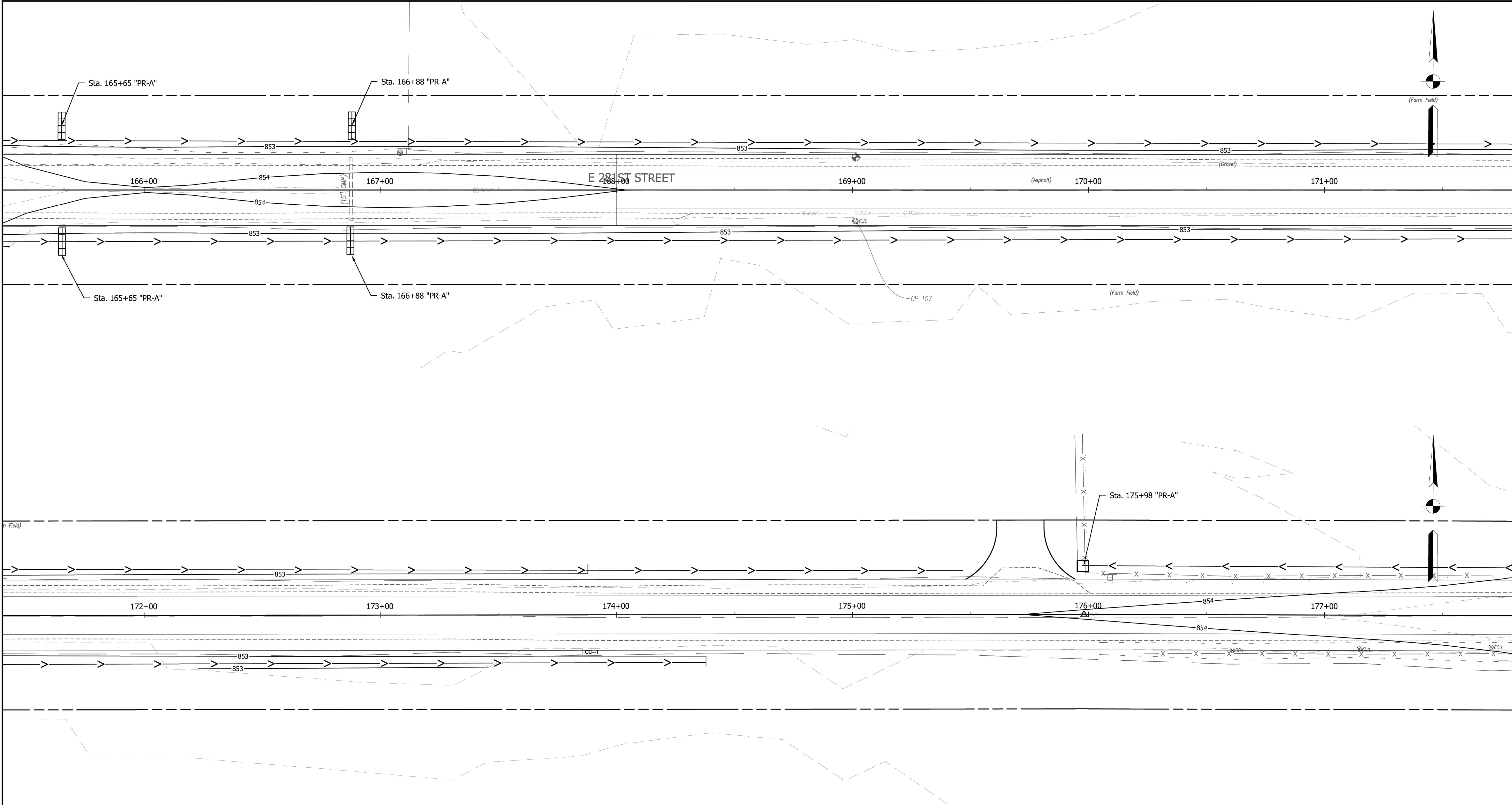
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Traversable Check Dam									
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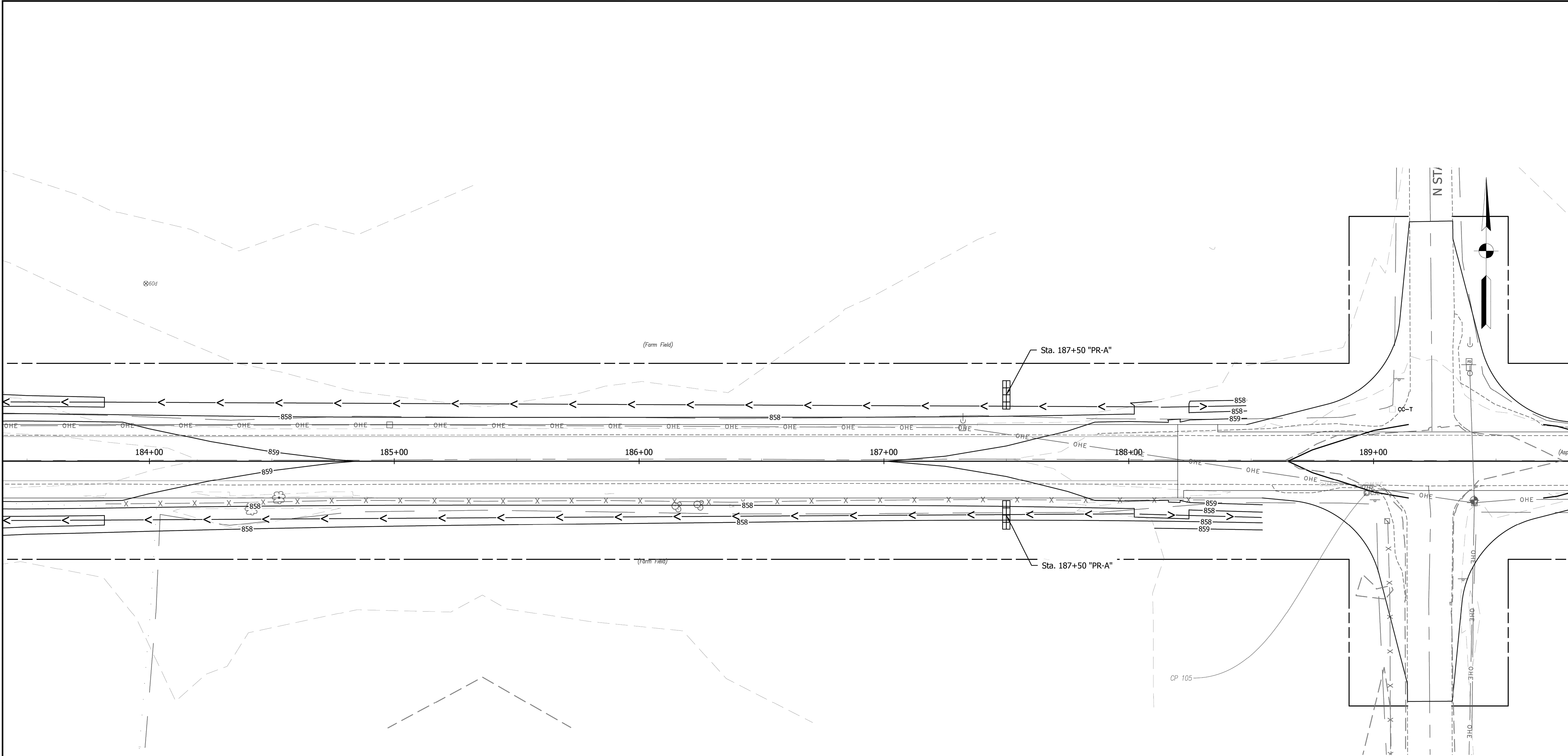
- NOTES:
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Traversable Check Dam PERMANENT SEEDING AND EROSION CONTROL BLANKET RIP-RAP INLET PROTECTION CONSTRUCTION ENTRANCE	RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE		BRIDGE FILE	
			1" = 50'		DESIGNATION	
			VERTICAL SCALE		2003031	
			SURVEY BOOK		SHEET	
			67		of	179
			CONTRACT			
R-43619		2003031				
EROSION CONTROL PLAN						



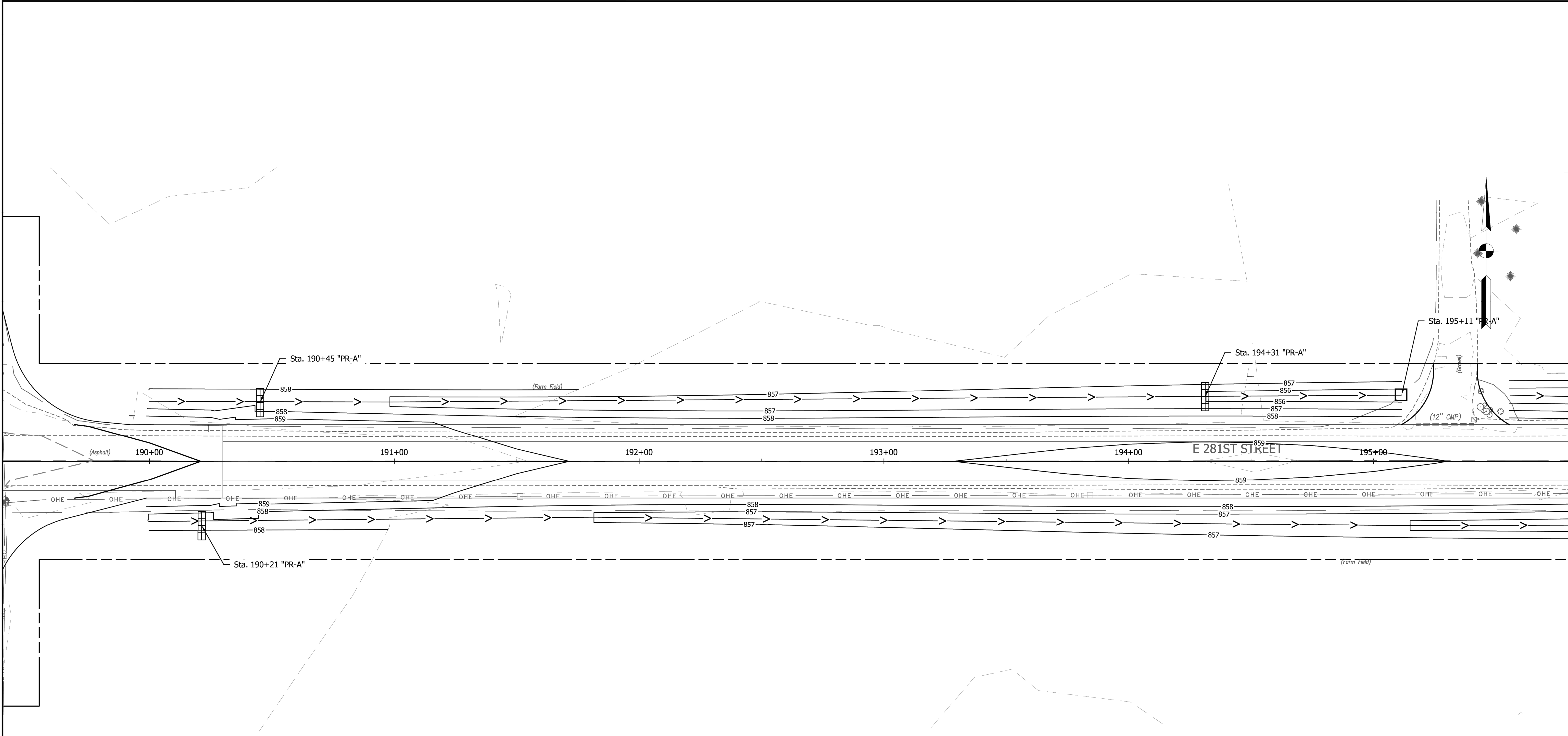
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Traversable Check Dam PERMANENT SEEDING AND EROSION CONTROL BLANKET RIP-RAP INLET PROTECTION CONSTRUCTION ENTRANCE		RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 50'		BRIDGE FILE	
		DESIGNED: <u>MRR</u> DRAWN: <u>MRR</u>		EROSION CONTROL PLAN		VERTICAL SCALE		DESIGNATION 2003031	
CHECKED: <u>JRF</u> CHECKED: <u>JRF</u>						SURVEY BOOK		SHEET 68 of 179	
						CONTRACT R-43619		2003031	



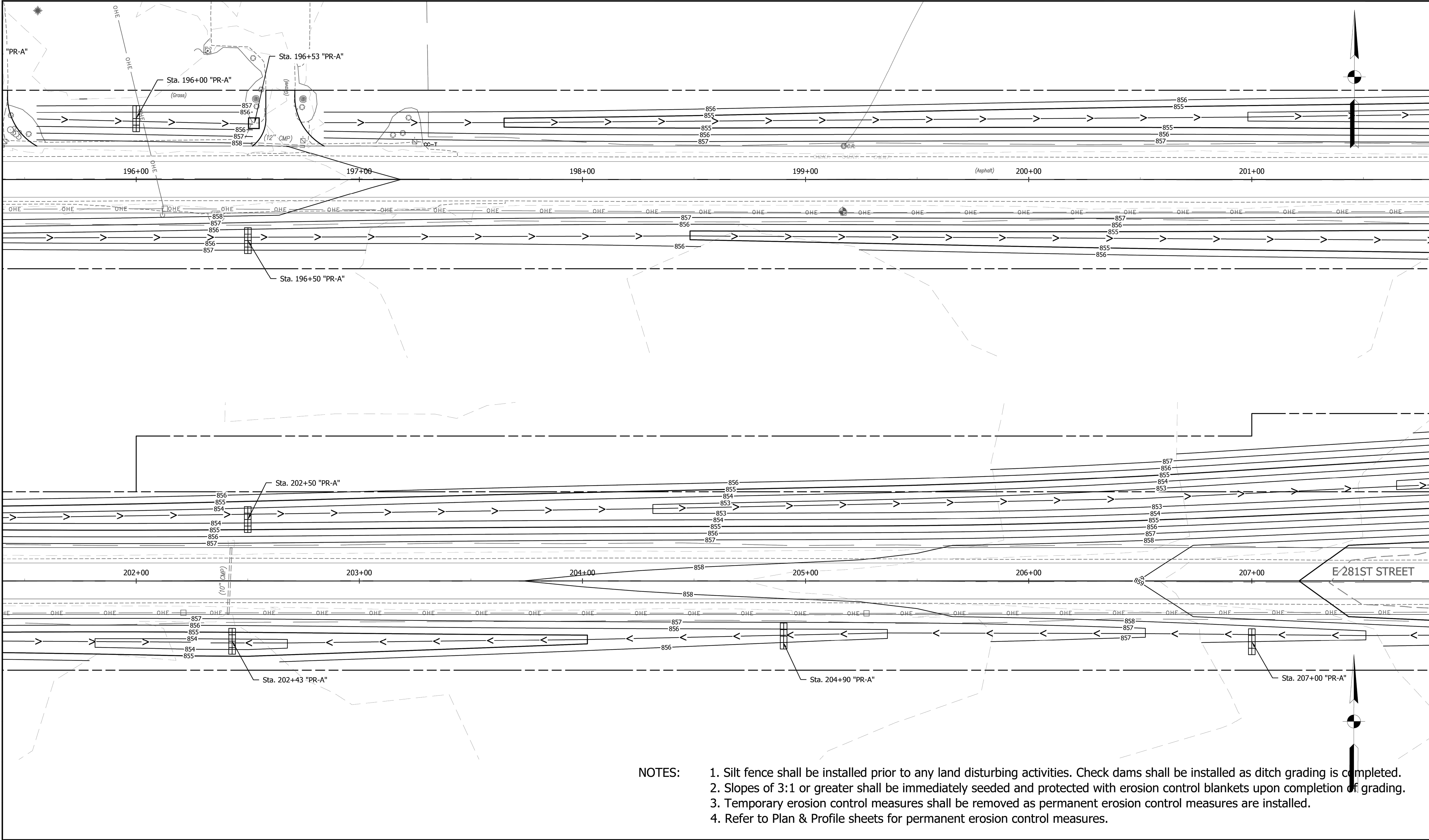
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										RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
										DESIGN ENGINEER		DATE		1" = 50'		DESIGNATION	
										DESIGNED: MRR		DRAWN: MRR		SURVEY BOOK		SHEET	
										CHECKED: JRF		CHECKED: JRF		70 of 179		CONTRACT	
														R-43619		2003031	



- NOTES:
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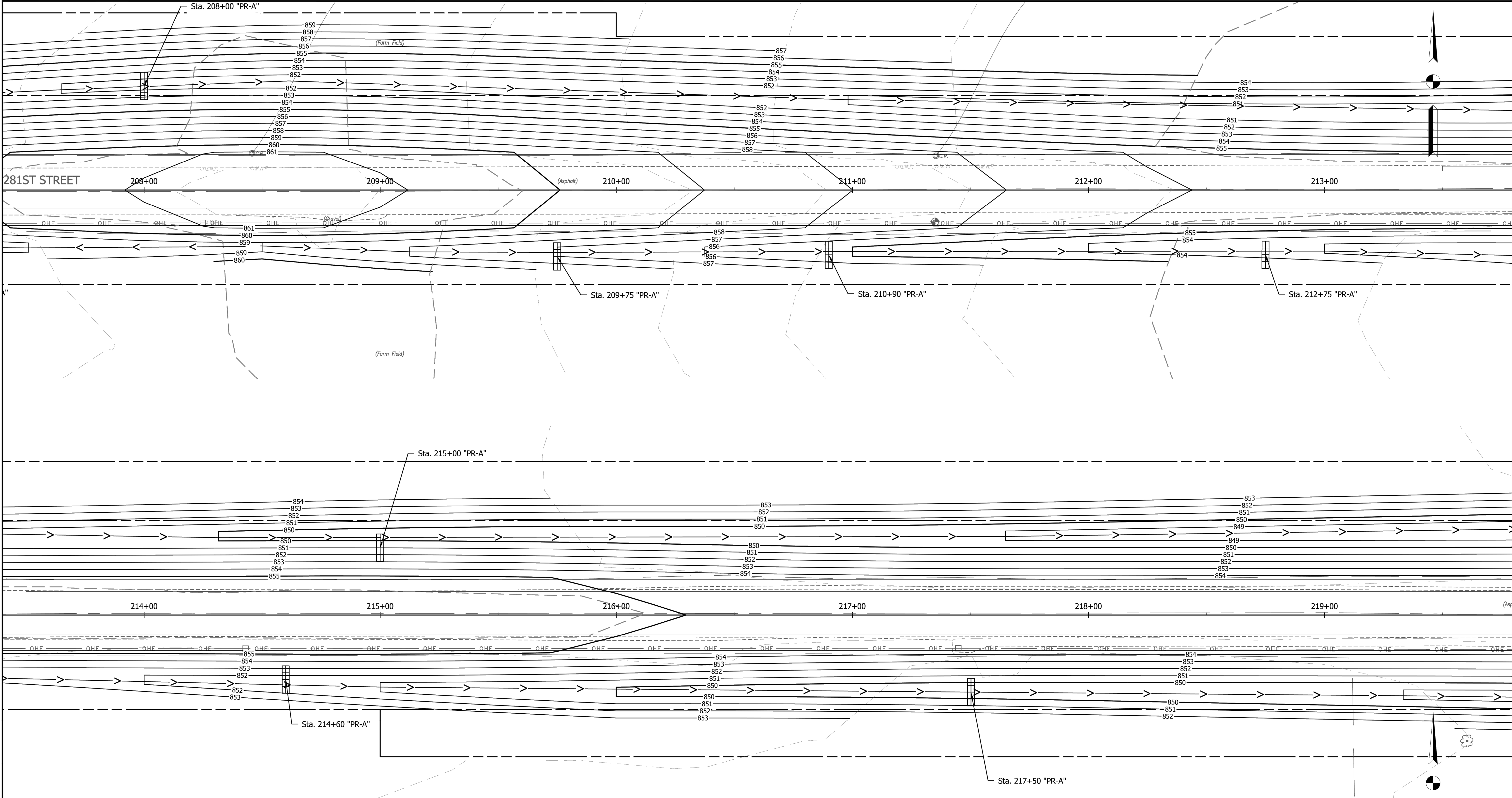
Traversable Check Dam		PERMANENT SEEDING AND EROSION CONTROL BLANKET RIP-RAP	INLET PROTECTION CONSTRUCTION ENTRANCE	RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 50' VERTICAL SCALE	BRIDGE FILE DESIGNATION 2003031
EROSION CONTROL PLAN				SURVEY BOOK CONTRACT R-43619	SHEET 71 of 179 2003031				



NOTES:

1. Silt fence shall be installed prior to any land disturbing activities. Check dams shall be installed as ditch grading is completed.
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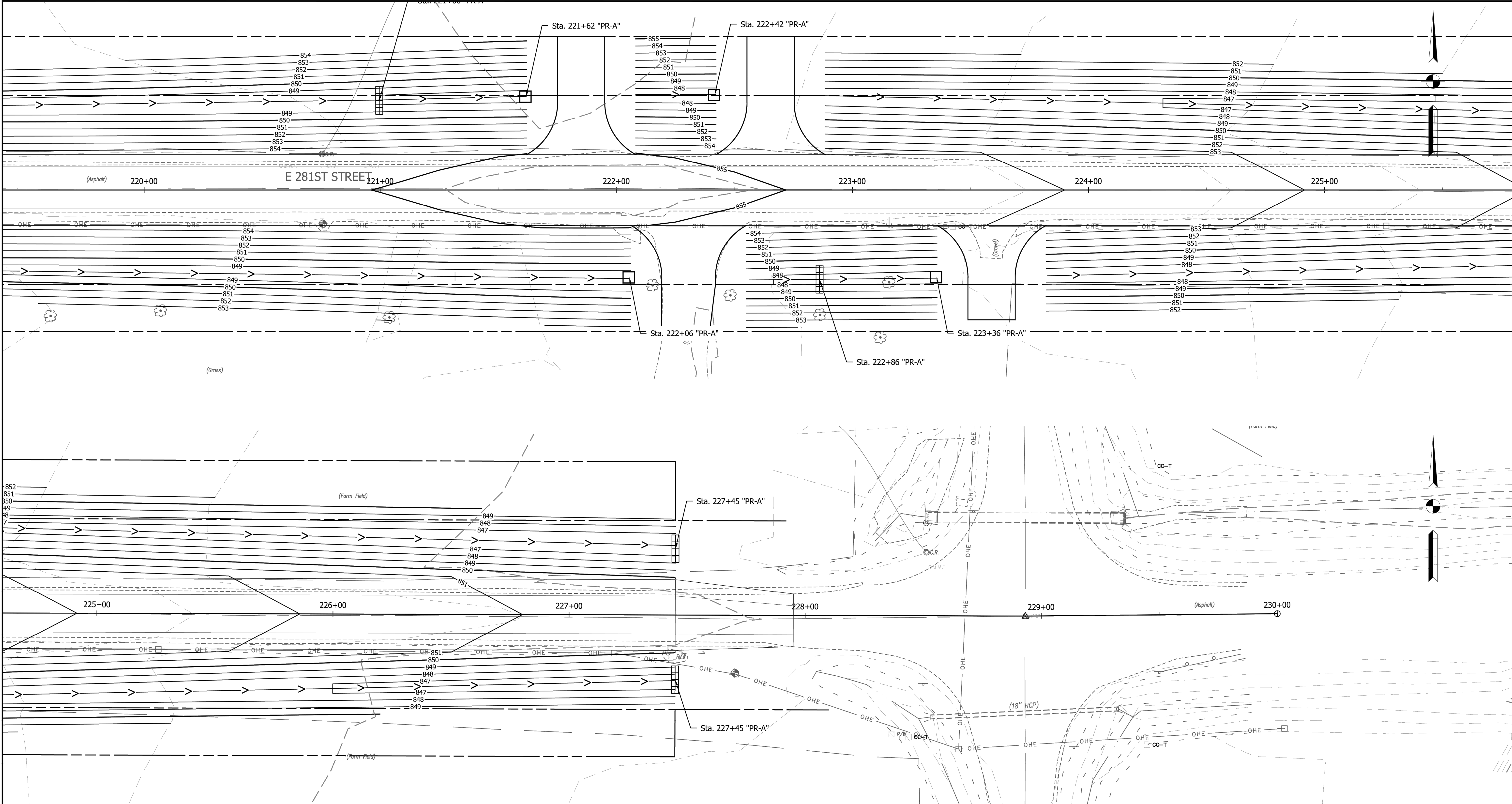
Traversable Check Dam PERMANENT SEEDING AND EROSION CONTROL BLANKET INLET PROTECTION RIP-RAP CONSTRUCTION ENTRANCE	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 50'		BRIDGE FILE	
	DESIGNED: <u>MRR</u> _____ DRAWN: <u>MRR</u> _____		EROSION CONTROL PLAN		VERTICAL SCALE		DESIGNATION 2003031	
	CHECKED: <u>JRF</u> _____ CHECKED: <u>JRF</u> _____				SURVEY BOOK		SHEET	
					72		of 179	
					CONTRACT R-43619		2003031	



NOTES:

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- 4. Refer to Plan & Profile sheets for permanent erosion control measures.

LEGEND: Traversable Check Dam PERMANENT SEEDING AND EROSION CONTROL BLANKET RIP-RAP INLET PROTECTION CONSTRUCTION ENTRANCE	RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 50'	BRIDGE FILE
			VERTICAL SCALE	DESIGNATION 2003031
DESIGNED: MRR CHECKED: JRF	DRAWN: MRR CHECKED: JRF	EROSION CONTROL PLAN	SURVEY BOOK	SHEET
			CONTRACT R-43619	73 of 179 2003031



- NOTES:
1. Silt fence shall be installed prior to any land disturbing activities. Check dams shall be installed as ditch grading is completed.
 2. Slopes of 3:1 or greater shall be immediately seeded and protected with erosion control blankets upon completion of grading.
 3. Temporary erosion control measures shall be removed as permanent erosion control measures are installed.
 4. Refer to Plan & Profile sheets for permanent erosion control measures.

Traversable Check Dam									
---	--	--	--	--	--	--	--	--	--

TEMPORARY EROSION CONTROL TABLE														
STATION			LOCATION		TEMPORARY SILT FENCE	STRAW BALES DITCH CHECK	SEDIMENT REMOVE	TEMPORARY INLET PROTECTION	EROSION CONTROL BLANKET	PUMP AROUND	TEMPORARY SEEDING	SEDIMENT TRAP	SEDIMENT BASIN	REMARKS
			LEFT	MEDIAN RIGHT										
LINE "A"					LFT	LFT	CYS	EACH	SYS	EACH	LBS	TON	EACH	
102+26.00				X				1.0						
102+96.00			X	X		12.0								
103+70.00			X			6.0								
105+80.00			X	X		12.0								
107+00.00			X	X		12.0								
108+25.00			X	X		12.0								
108+80.00			X					1.0						
109+40.00			X	X		12.0								
109+96.00				X		6.0								
110+14.00			X							1.0				
110+50.00			X	X		12.0								
111+65.00			X					1.0						
112+35.00				X		6.0								
112+45.00			X			6.0								
113+25.00			X			6.0								
114+30.00				X		6.0								
115+00.00			X			6.0								
117+50.00				X		6.0								
119+00.00			X			6.0								
120+50.00				X		6.0								
122+06.00			X					1.0						
122+39.00				x				1.0						
123+45.00			X					1.0						
128+26.00			X							1.0				
131+38.00			X			6.0								
SUBTOTALS					-	138.0	-	6.0	-	2.0	-	-	-	-

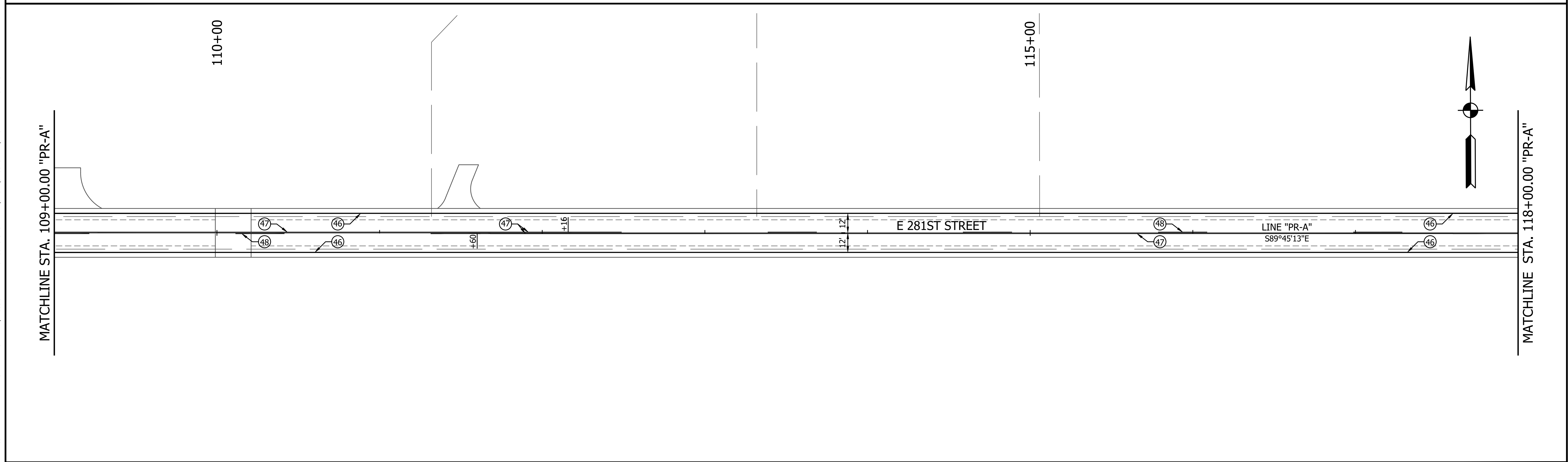
TEMPORARY EROSION CONTROL TABLE														
STATION			LOCATION		TEMPORARY SILT FENCE	STRAW BALES DITCH CHECK	SEDIMENT REMOVE	TEMPORARY INLET PROTECTION	EROSION CONTROL BLANKET	PUMP AROUND	TEMPORARY SEEDING	SEDIMENT TRAP	SEDIMENT BASIN	REMARKS
			LEFT	MEDIAN										
LINE "A"					LFT	LFT	CYS	EACH	SYS	EACH	LBS	TON	EACH	
131+93.00			X			6.0								
132+23.00			X			6.0								
132+53.00			X			6.0								
132+79.00				X				1.0						
132+83.00			X			6.0								
133+21.00			X			6.0								
134+00.00			X					1.0						
135+00.00			X			6.0								
136+55.00			X			6.0								
139+25.00				X		6.0								
139+40.00			X			6.0								
140+00.00				X				1.0						
141+95.00			X					1.0						
143+25.00				X		6.0								
143+78.00			X							1.0				
144+50.00			X			6.0								
145+20.00			X	X		12.0								
146+60.00			X			6.0								
146+75.00				X		6.0								
148+45.00			X	X		12.0								
149+45.00			X			6.0								
149+55.00				X		6.0								
150+55.00			X			6.0								
150+70.00				X		6.0								
152+20.00			X	X		12.0								
SUBTOTALS					-	138.0	-	4.0	-	1.0	-	-	-	-

		RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE		
		VERTICAL SCALE		DESIGNATION			
		2003031					
		SURVEY BOOK		SHEET			
		DESIGNED: MRR _____ DRAWN: MRR _____	EROSION CONTROL PLAN		75	of	179
		CHECKED: JRF _____ CHECKED: JRF _____		CONTRACT			
				R-43619	2003031		

TEMPORARY EROSION CONTROL TABLE														
STATION			LOCATION		TEMPORARY SILT FENCE	STRAW BALES DITCH CHECK	SEDIMENT REMOVE	TEMPORARY INLET PROTECTION	EROSION CONTROL BLANKET	PUMP AROUND	TEMPORARY SEEDING	SEDIMENT TRAP	SEDIMENT BASIN	REMARKS
			LEFT	MEDIAN RIGHT										
LINE "A"					LFT	LFT	CYS	EACH	SYS	EACH	LBS	TON	EACH	
153+20.00				X		6.0								
153+30.00			X			6.0								
154+25.00				X		6.0								
154+40.00			X			6.0								
155+75.00			X	X		12.0								
157+08.00				X				1.0						
157+37.00			X					1.0						
157+84.00			X					1.0						
158+52.00			X	X		12.0								
162+75.00				X		6.0								
162+90.00			X			6.0								
165+65.00			X	X		12.0								
166+88.00			X	X		12.0								
175+98.00			X					1.0						
179+00.00			X	X		12.0								
182+00.00			X			6.0								
182+31.00								1.0						
187+50.00			X	X		12.0								
189+00.00			X	X		12.0								
190+00.00			X	X		12.0								
195+11			X					1.0						
196+00.00			X			6.0								
196+50.00				X		6.0								
196+53.00				X				1.0						
202+43.00				X		6.0								
SUBTOTALS					-	156.0	-	7.0	-	-	-	-	-	-

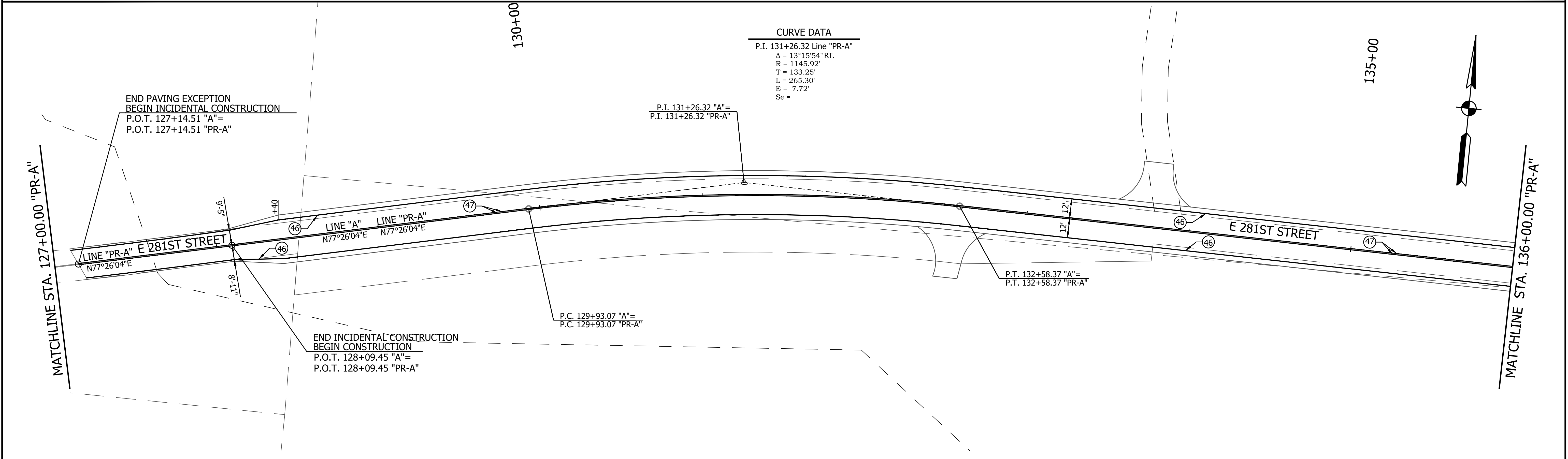
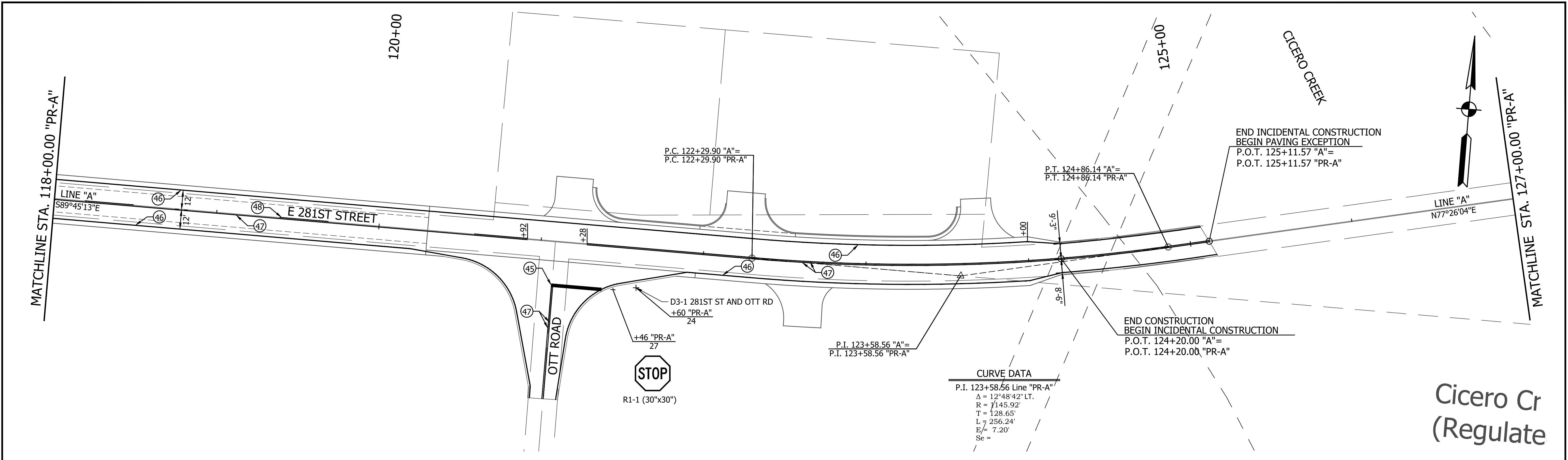
TEMPORARY EROSION CONTROL TABLE														
STATION			LOCATION		TEMPORARY SILT FENCE	STRAW BALES DITCH CHECK	TEMPORARY RIPRAP CHECK DAM	TEMPORARY INLET PROTECTION	EROSION CONTROL BLANKET	PUMP AROUND	TEMPORARY SEEDING	SEDIMENT TRAP	SEDIMENT BASIN	REMARKS
			LEFT	MEDIAN										
LINE "A"					LFT	LFT	TON	EACH	SYS	EACH	LBS	TON	EACH	
202+50.00			X			6.0								
204+90.00				X		6.0								
207+00.00				X		6.0								
208+00.00			X			6.0								
208+50.00				X		6.0								
209+75.00				X		6.0								
210+90.00				X		6.0								
212+75.00				X		6.0								
214+60.00				X		6.0								
215+00.00			X			6.0								
217+50.00				X		6.0								
221+00.00			X			6.0								
221+62.00			X					1.0						
222+06.00			X					1.0						
222+36.00			X					1.0						
222+42.00			X					1.0						
223+50.00				X		6.0								
227+45.00			X	X		12.0								
						</								

		RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE	
		VERTICAL SCALE		DESIGNATION 2003031		
		SURVEY BOOK		SHEET 76 of 179		
		CONTRACT R-43619		2003031		
		DESIGNED: <u>MRR</u> _____ DRAWN: <u>MRR</u> _____	EROSION CONTROL PLAN			
		CHECKED: <u>JRF</u> _____ CHECKED: <u>JRF</u> _____				



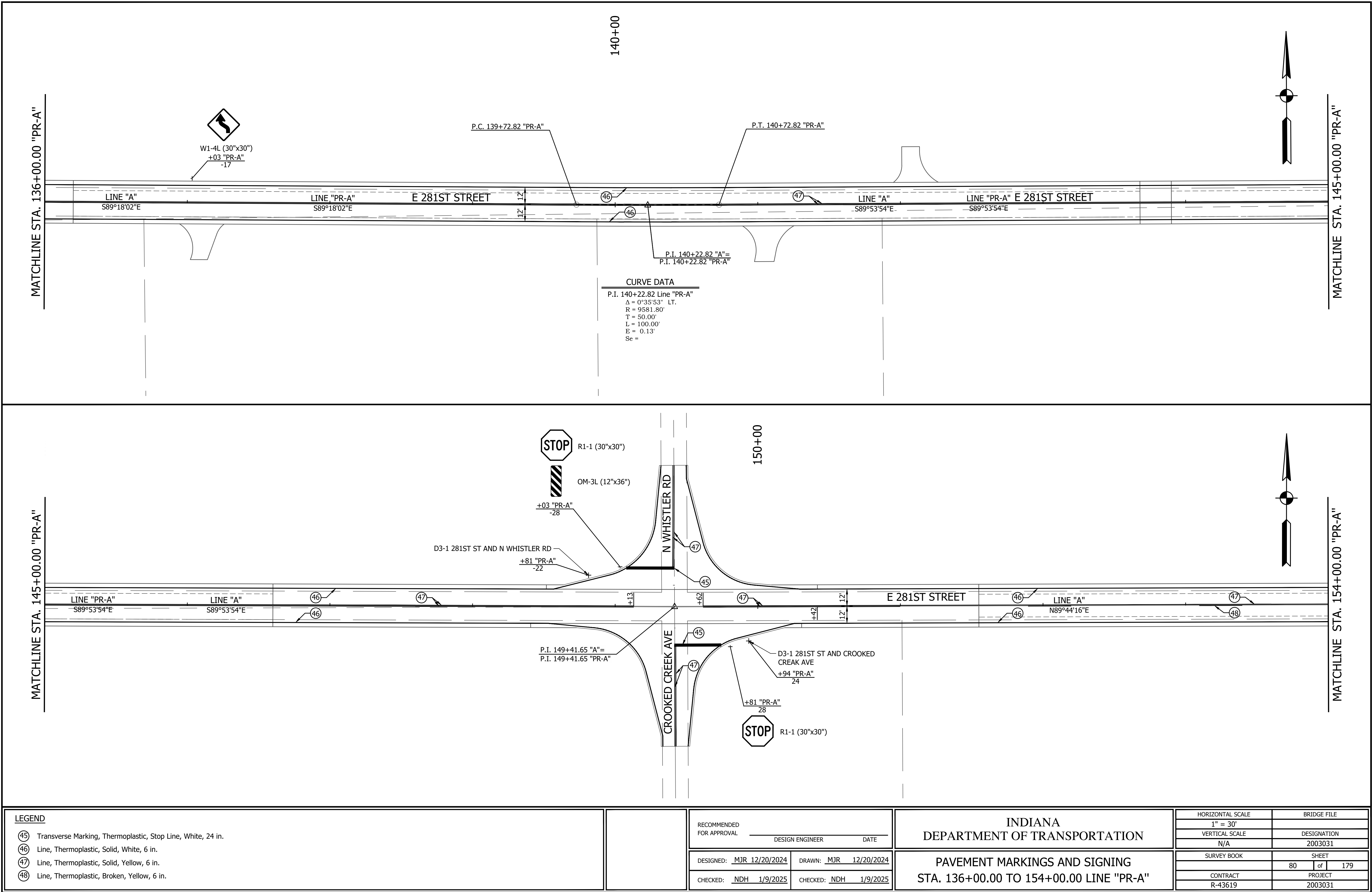
LEGEND 45 Transverse Marking, Thermoplastic, Stop Line, White, 24 in. 46 Line, Thermoplastic, Solid, White, 6 in. 47 Line, Thermoplastic, Solid, Yellow, 6 in. 48 Line, Thermoplastic, Broken, Yellow, 6 in.			RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 30' VERTICAL SCALE N/A BRIDGE FILE DESIGNATION 2003031
		DESIGNED: MJR 12/20/2024 DRAWN: MJR 12/20/2024 CHECKED: NDH 1/9/2025 CHECKED: NDH 1/9/2025	PAVEMENT MARKINGS AND SIGNING STA. 100+00.00 TO 118+00.00 LINE "PR-A"	SURVEY BOOK 78 of 179 CONTRACT R-43619 SHEET PROJECT 2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/20/24 - 12:09 AM
EDITED BY: BEYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB'S ACAD\07 CONST DTL\RD-SHT-PWMT MRKG.DWG

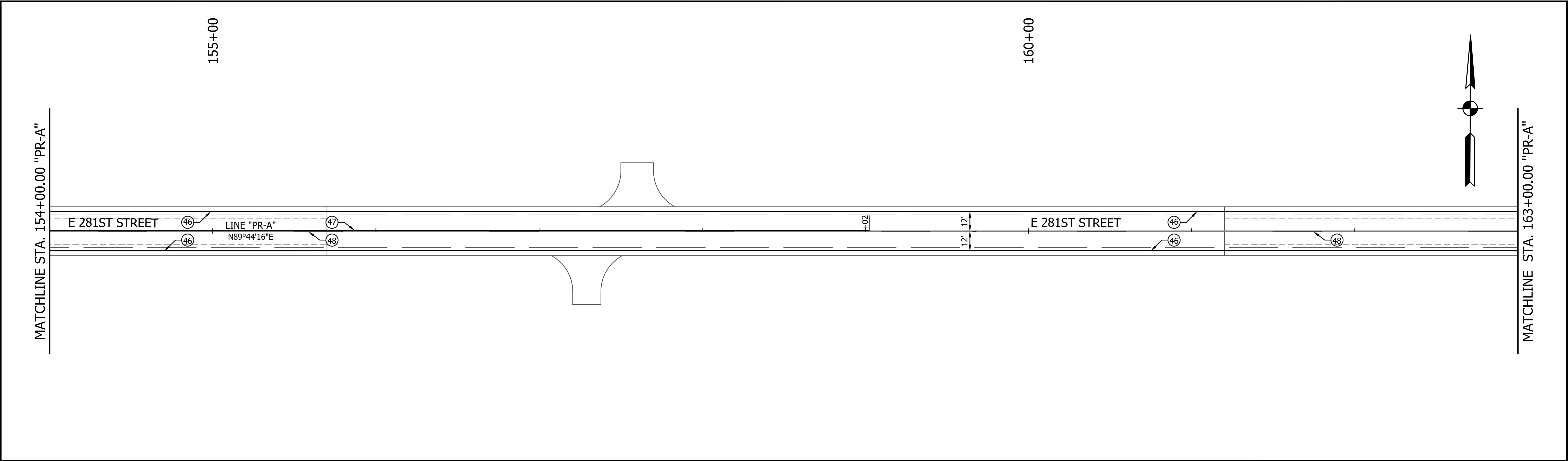
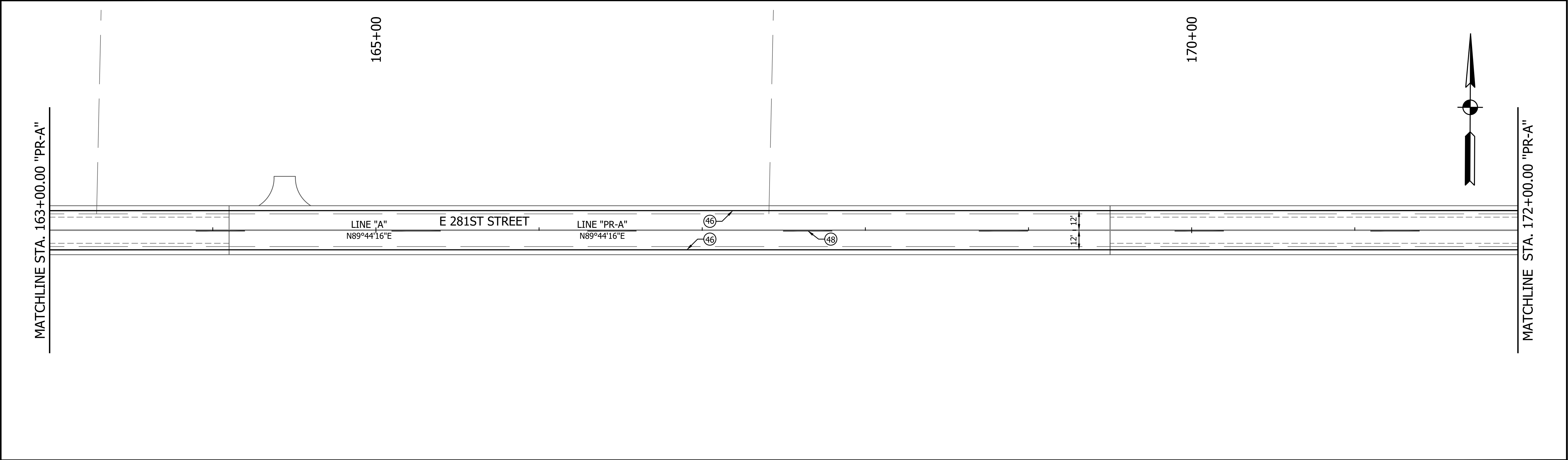


LEGEND			RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
(45) Transverse Marking, Thermoplastic, Stop Line, White, 24 in.			DESIGN ENGINEER				1" = 30'		DESIGNATION	
(46) Line, Thermoplastic, Solid, White, 6 in.			DATE		VERTICAL SCALE		2003031			
(47) Line, Thermoplastic, Solid, Yellow, 6 in.			DESIGNED: MJR 12/20/2024		N/A		SURVEY BOOK			
(48) Line, Thermoplastic, Broken, Yellow, 6 in.			DRAWN: MJR 12/20/2024		PAVEMENT MARKINGS AND SIGNING		SHEET			
		CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025		STA. 118+00.00 TO 136+00.00 LINE "PR-A"		79 of 179		
						CONTRACT		PROJECT		
						R-43619		2003031		

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/20/24 - 12:09 AM
EDITED BY: EBYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\7 CONST DTL\RD-SHT-PWMT MRKG.DWG

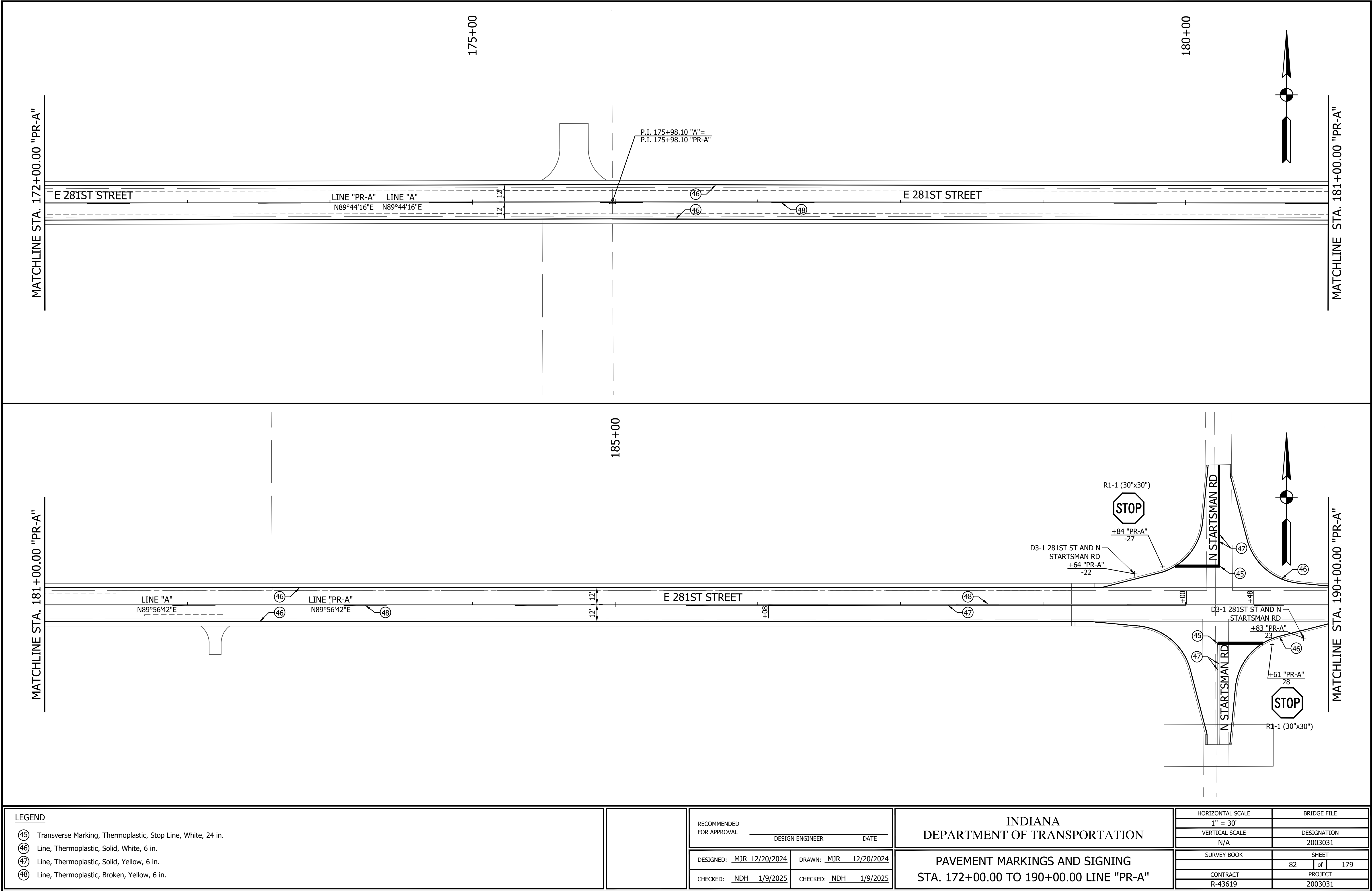


PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/20/24 - 12:09 AM
EDITED BY: EBYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB'S ACAD\07 CONST DTL\RD-SHT-PWMT MRKG.DWG

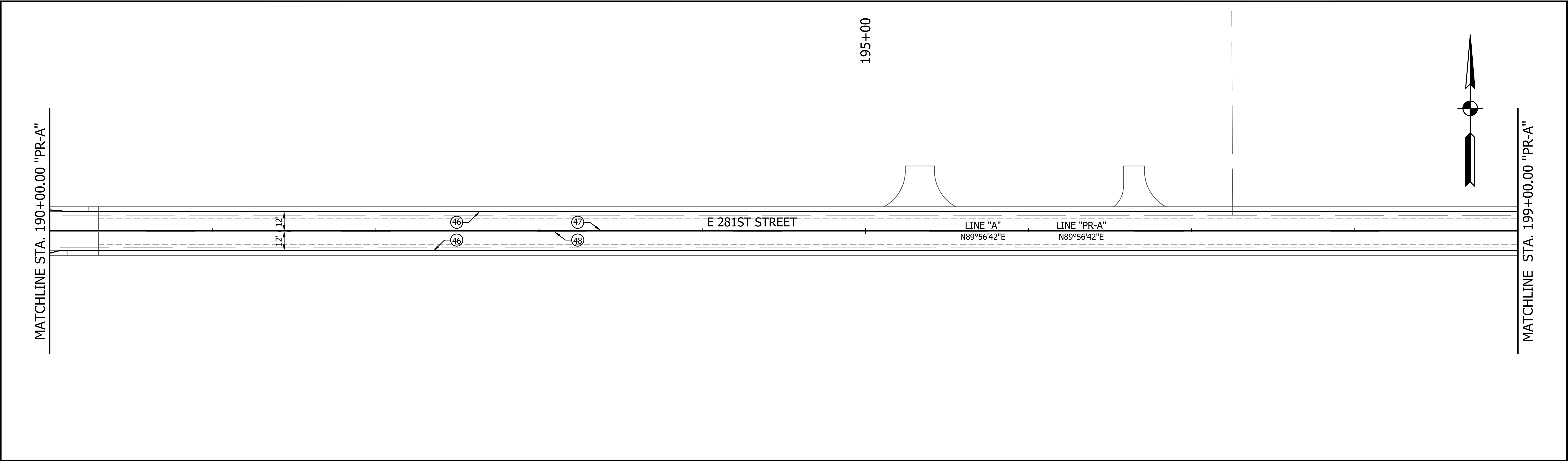
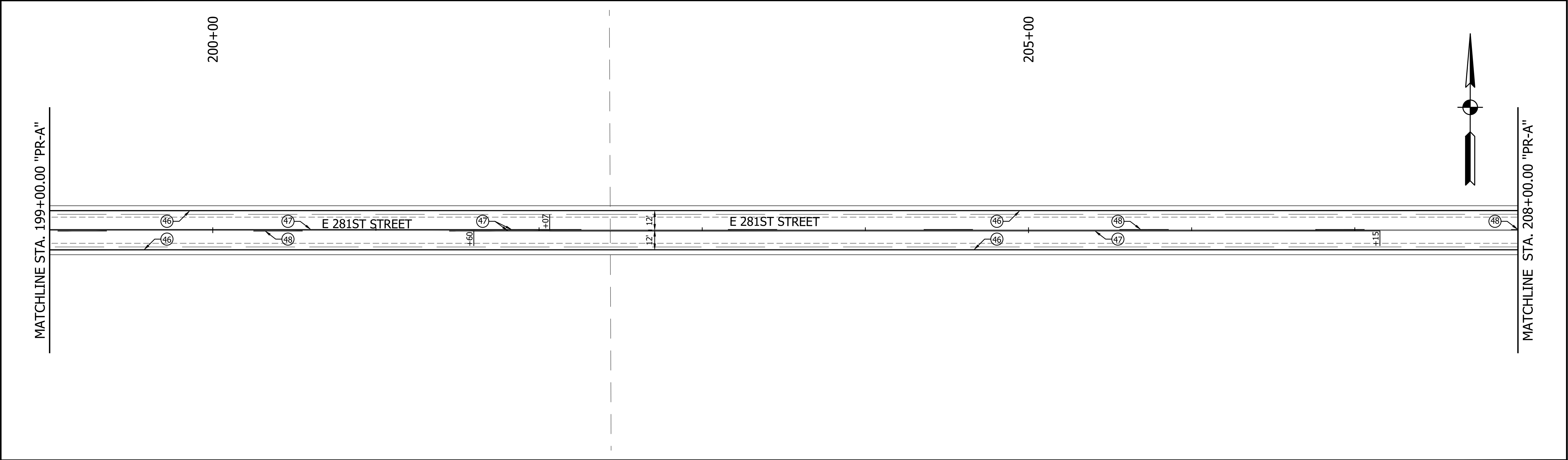


LEGEND 45 Transverse Marking, Thermoplastic, Stop Line, White, 24 in. 46 Line, Thermoplastic, Solid, White, 6 in. 47 Line, Thermoplastic, Solid, Yellow, 6 in. 48 Line, Thermoplastic, Broken, Yellow, 6 in.			RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 30' VERTICAL SCALE N/A		BRIDGE FILE DESIGNATION 2003031	
			DESIGNED: MJR 12/20/2024 DRAWN: MJR 12/20/2024		PAVEMENT MARKINGS AND SIGNING STA. 154+00.00 TO 172+00.00 LINE "PR-A"		SURVEY BOOK 81 of 179		SHEET PROJECT 2003031	
			CHECKED: NDH 1/9/2025 CHECKED: NDH 1/9/2025				CONTRACT R-43619			

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/20/24 - 12:09 AM
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB'S ACAD\07 CONST DTL\RD-SHT-PWMT MRKG.DWG
EDITED BY: EBYERS

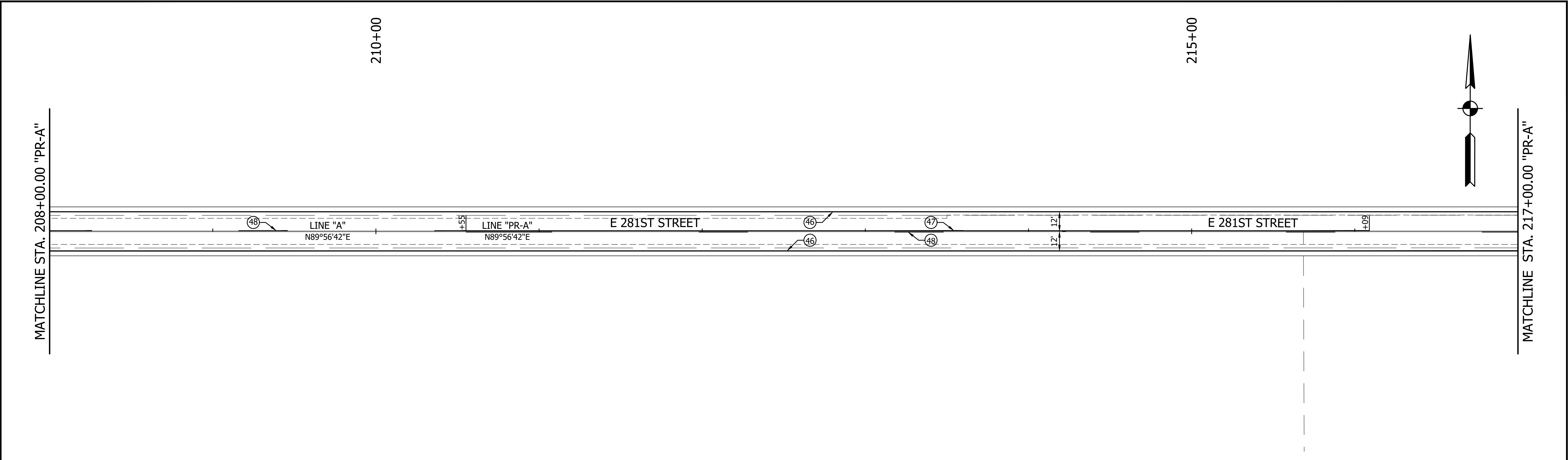
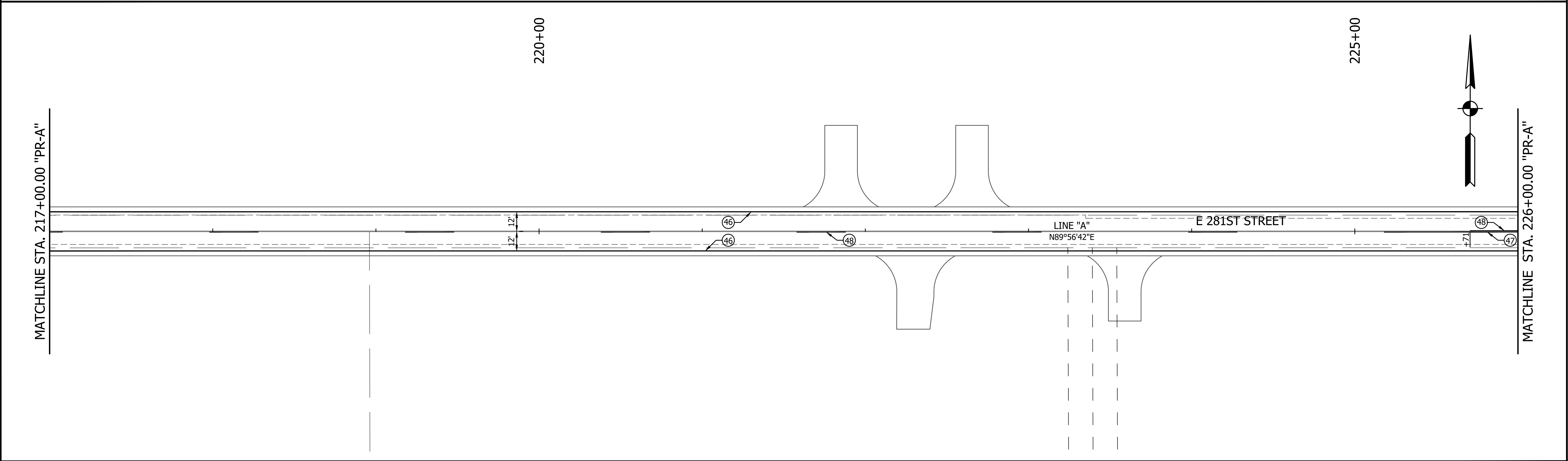


PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/20/24 - 12:09 AM
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB'S ACAD\07 CONST DTL\RD-SHT-PWMT MRKG.DWG



LEGEND 45 Transverse Marking, Thermoplastic, Stop Line, White, 24 in. 46 Line, Thermoplastic, Solid, White, 6 in. 47 Line, Thermoplastic, Solid, Yellow, 6 in. 48 Line, Thermoplastic, Broken, Yellow, 6 in.		RECOMMENDED FOR APPROVAL DESIGN ENGINEERDATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 30' VERTICAL SCALE N/A		BRIDGE FILE	
DESIGNED: MJR 12/20/2024 CHECKED: NDH 1/9/2025		DRAWN: MJR 12/20/2024 CHECKED: NDH 1/9/2025		PAVEMENT MARKINGS AND SIGNING STA. 190+00.00 TO 208+00.00 LINE "PR-A"		SURVEY BOOK R-43619		SHEET 83 of 179 PROJECT 2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/20/24 - 12:09 AM
EDITED BY: EBYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB'S ACAD\07 CONST DTL\RD-SHT-PWMT MRKG.DWG



LEGEND 45 Transverse Marking, Thermoplastic, Stop Line, White, 24 in. 46 Line, Thermoplastic, Solid, White, 6 in. 47 Line, Thermoplastic, Solid, Yellow, 6 in. 48 Line, Thermoplastic, Broken, Yellow, 6 in.		RECOMMENDED FOR APPROVAL DESIGN ENGINEER DATE DESIGNED: MJR 12/20/2024 DRAWN: MJR 12/20/2024 CHECKED: NDH 1/9/2025 CHECKED: NDH 1/9/2025		INDIANA DEPARTMENT OF TRANSPORTATION PAVEMENT MARKINGS AND SIGNING STA. 208+00.00 TO 226+00.00 LINE "PR-A"		HORIZONTAL SCALE 1" = 30' VERTICAL SCALE N/A SURVEY BOOK CONTRACT R-43619 BRIDGE FILE DESIGNATION 2003031 SHEET 84 of 179 PROJECT 2003031
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PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/20/24 - 12:09 AM
EDITED BY: EBYERS
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\7 CONST DTL\RD-SHT-PWMT MRKG.DWG

MATCHLINE STA. 226+00.00 "PR-A"

E 281ST STREET

END CONSTRUCTION
P.O.T. 227+45.00 "A"=
P.O.T. 227+45.00 "PR-A"

END INCIDENTAL CONSTRUCTION
P.O.T. 227+95.00 "A"=
P.O.T. 227+95.00 "PR-A"

LINE "A" N89°14'13"E
LINE "PR-A" N89°14'13"E

P.I. 228+93.27 "A"=
P.I. 228+93.27 "PR-A"

CURVE DATA
P.I. 228+93.27 Line "PR-A"
 $\Delta = 0^\circ 42' 29''$
(No Curve Run)

P.O.T. 230+00.00 "A"=
P.O.T. 230+00.00 "PR-A"

230+00

LEGEND

- (45) Transverse Marking, Thermoplastic, Stop Line, White, 24 in.
(46) Line, Thermoplastic, Solid, White, 6 in.
(47) Line, Thermoplastic, Solid, Yellow, 6 in.
(48) Line, Thermoplastic, Broken, Yellow, 6 in.

RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER
DATE

DESIGNED: MJR 12/20/2024
DRAWN: MJR 12/20/2024
CHECKED: NDH 1/9/2025
CHECKED: NDH 1/9/2025

INDIANA
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKINGS AND SIGNING
STA. 226+00.00 TO 230+00.00 LINE "PR-A"

HORIZONTAL SCALE
1" = 30'

VERTICAL SCALE
N/A

SURVEY BOOK
CONTRACT
R-43619

BRIDGE FILE

DESIGNATION
2003031

SHEET
85 of 179
PROJECT
2003031

PAVEMENT MARKINGS SUMMARY OF QUANTITIES									
---	--	--	--	--	--	--	--	--	--

LOCATION		LINE PAINT		LINE THERMOPLASTIC				LINE THERMOPLASTIC				TRANSVERSE MARKINGS THERMOPLASTIC STOP LINE		TRANSVERSE MARKINGS CROSSHATCH LINE		TRANSVERSE MARKINGS CROSSWALK LINE		PAVEMENT MESSAGE THERMOPLASTIC LANE INDICATION ARROW	PAVEMENT MESSAGE THERMOPLASTIC WORD "ONLY"	SNOWPLOWABLE RAISED PAVEMENT MARKERS
FROM	TO	SOLID WHITE 6 in	SOLID YELLOW 6 in	SOLID WHITE 6 in	SOLID YELLOW 6 in	SOLID WHITE 8 in	SOLID YELLOW 8 in	BROKEN WHITE 6 in	BROKEN YELLOW 6 in	BROKEN WHITE 8 in	BROKEN YELLOW 8 in	SOLID WHITE 12 in	SOLID WHITE 24 in	SOLID YELLOW 12 in	SOLID YELLOW 24 in	SOLID WHITE 6 in	SOLID WHITE 8 in			
		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft			
LINE "PR-A"																				
100+00.0	109+00.0			1493	841				122			22								
109+00.0	118+00.0			1800	948				213											
118+00.0	125+11.57			1519	1198				73			31								
PAVING EXCEPTION																				
127+14.51	136+00.0			1771	1771															
136+00.0	145+00.0			1800	1800															
145+00.0	154+00.0			1993	1630				90			66								
154+00.0	163+00.0			1800	502				225											
163+00.0	172+00.0			1800					225											
172+00.0	181+00.0			1800					225											
181+00.0	190+00.0			1996	629				200			63								
190+00.0	199+00.0			1801	900				225											
199+00.0	208+00.0			1800	862				213											
208+00.0	217+00.0			1800	554				225											
217+00.0	226+00.0			1800	29				225											
226+00.0	230+00.0			290	195				49											

		RECOMMENDED FOR APPROVAL _____		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE	
		DESIGN ENGINEER _____ DATE _____			1" = 20'	DESIGNATION	
		DESIGNED: <u>MJR 12/10/2024</u>	DRAWN: <u>MJR 12/10/2024</u>	PAVEMENT MARKING TABLE	VERTICAL SCALE	2003031	
		CHECKED: <u>NDH 1/9/2025</u>	CHECKED: <u>NDH 1/9/2025</u>		N/A		
					SURVEY BOOK	SHEET	
						86	of 179
					CONTRACT	PROJECT	
					R-43619	2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1:1
EDIT DATE: 12/10/24 - 10:16 PM
DRAWING FILE: P:\21-500-371-1 HAMILTON CO 281ST ST REHAB\5 ACAD\09 TABLES\T PAVEMENT MARKING TABLE.DWG
DRAWN BY: C&A\PHIAN

SHEET SIGN & POST SUMMARY																					
SIGN											SQUARE POST						3" O.D. Round Aluminum Tube, Non Fluted, 1/8" Wall, Black Powder Coated Finish				
PLAN SHEET NO.	SIGN LOCATION (STATION)	OFFSET	ALIGNMENT	SIGN CODE	SIGN SIZE (IN. X IN.)	GROUND MOUNTED SIGN AREA (SFT)		GROUND MOUNTED DOUBLE SIDED SIGN (SFT)		ALUMINUM SIGN AREA (SFT)	TYPE 1 (2¼ IN. X 2¼ IN. X 12 GA.)			TYPE 2 (2 IN. X 2 IN. X 12 GA.)							
						THICKNESS		THICKNESS			THICKNESS			REINFORCED ANCHOR						REINFORCED ANCHOR	
						0.080 IN.		0.100 IN.		0.080 IN.		0.100 IN.		0.125 IN.						POST LENGTH (FT.)	
											1	2	TOTAL	1	2	TOTAL	1	2	TOTAL		
				R1-1	30 X 30	6.3					13.00		13.00								
47	102+37	LT	A																		
				W3-1	30 X 30	6.3					13.00		13.00								
47	108+44	LT	A																		
				R1-1	30 X 30	6.3					13.00		13.00								
48	121+46	RT	A																		
48	121+60	RT	A	D3-1	42 X 8				2.3		17.50		17.50								
				D3-1	42 X 8				2.3												
49	137+03	LT	A	W1-4L	30 X 30	6.3					13.00		13.00								
49	148+81	LT	A	D3-1	48 X 8				2.7		18.50		18.50								
				D3-1	48 X 8				2.7												
49	149+03	LT	A	R1-1	30 X 30	6.3					14.00		14.00								
				OM-3L	12 X 36	3.0															
49	149+81	RT	A	R1-1	30 X 30	6.3					13.00		13.00								
49	149+94	RT	A	D3-1	48 X 8				2.7		18.50		18.50								
				D3-1	48 X 8				2.7												
51	188+64	LT	A	D3-1	48 X 8				2.7		18.50		18.50								
				D3-1	48 X 8				2.7												
51	188+84	LT	A	R1-1	30 X 30	6.3					13.00		13.00								
51	189+61	RT	A	R1-1	30 X 30	6.3					13.00		13.00								
51	189+83	RT	A	D3-1	48 X 8				2.7		18.50		18.50								
				D3-1	48 X 8				2.7												
				SHEET	TOTAL	53.40			26.00				196.50								

						RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION				HORIZONTAL SCALE		BRIDGE FILE	
																1" = 30'			
																VERTICAL SCALE		DESIGNATION	
																N/A		2003031	
						DESIGNED: MJR 12/10/2024		DRAWN: MJR 12/10/2024				SIGN TABLE				SURVEY BOOK		SHEET	
																		87 of 179	
																CONTRACT		PROJECT	
						CHECKED: NDH 1/9/2025		CHECKED: NDH 1/9/2025								R-43619		2003031	

ID Number	Point Type	Latitude	Longitude	Station, Line "A"	Direction	Location	Length (ft)	Width (ft)	Area (sq yd)	Notes
70	Isolated	40.197559	-86.021839	103+38	Eastbound Westbound	Full Lane	6	20	13	---
66	Isolated	40.197617	-86.020968	105+78	Westbound	Full Lane	6	10	7	---
62	Isolated	40.197547	-86.018797	111+78	Eastbound Westbound	Full Lane	6	20	13	---
59	Isolated	40.197541	-86.018158	113+55	Eastbound Westbound	Full Lane	6	20	13	---
58	Isolated	40.197541	-86.017900	114+26	Eastbound Westbound	Full Lane	6	20	13	---
34	Start Patch	40.197555	-86.017751	114+67	Eastbound	Outside Wheel Path	25	5	14	---
33	Stop Patch	40.197554	-86.017662	114+92						
57	Isolated	40.197607	-86.017084	116+51	Westbound	Full Lane	6	10	7	---
56	Isolated	40.197536	-86.016837	117+20	Eastbound Westbound	Full Lane	10	20	22	---
46	Isolated	40.198023	-86.004413	151+68	Eastbound Westbound	Full Lane	6	20	13	---
43	Isolated	40.197966	-86.003715	153+60	Eastbound Westbound	Full Lane	6	20	13	---
40	Isolated	40.197970	-86.002430	157+15	Eastbound Westbound	Full Lane	6	20	13	---
39	Isolated	40.197968	-86.001829	158+81	Eastbound Westbound	Full Lane	10	20	22	---
29	Start Patch	40.198026	-86.001672	159+25	Westbound	Outside Wheel Path	25	5	14	---
28	Stop Patch	40.198030	-86.001583	159+49						
36	Isolated	40.197986	-85.998123	169+05	Eastbound Westbound	Full Lane	6	20	13	---
35	Isolated	40.198052	-85.997873	169+74	Eastbound Westbound	Full Lane	6	20	13	---
24	Start Patch	40.198045	-85.997864	169+77	Westbound	Outside Wheel Path	27	5	15	---
23	Stop Patch	40.198048	-85.997767	170+04						
34	Isolated	40.197988	-85.997772	170+02	Eastbound Westbound	Full Lane	6	20	13	---
33	Isolated	40.197979	-85.997176	171+67	Eastbound Westbound	Full Lane	6	20	13	---
32	Isolated	40.197977	-85.996262	174+19	Eastbound Westbound	Full Lane	6	20	13	---
22	Start Patch	40.198000	-85.993701	181+27	Eastbound	Outside Wheel Path	200	5	111	---
21	Stop Patch	40.197994	-85.992984	183+25						
31	Isolated	40.197986	-85.993421	182+04	Eastbound Westbound	Full Lane	20	20	44	---
30	Isolated	40.197987	-85.993024	183+14	Eastbound Westbound	Full Lane	6	20	13	---
29	Isolated	40.197987	-85.992885	183+52	Eastbound Westbound	Full Lane	6	20	13	---
28	Isolated	40.197987	-85.992510	184+56	Eastbound Westbound	Full Lane	6	20	13	---
20	Start Patch	40.197993	-85.992444	184+74	Eastbound	Outside Wheel Path	126	6	84	---
19	Stop Patch	40.198001	-85.991990	185+99						
27	Isolated	40.197984	-85.991393	187+64	Eastbound Westbound	Full Lane	6	20	13	---
26	Isolated	40.197984	-85.991270	187+99	Eastbound Westbound	Full Lane	6	20	13	---
23	Isolated	40.198054	-85.990219	190+89	Westbound	Full Lane	6	10	7	---
22	Isolated	40.198062	-85.989260	193+54	Eastbound Westbound	Full Lane	6	20	13	---
14	Start Patch	40.198058	-85.988499	195+64	Westbound	Outside Wheel Path	25	5	14	---
13	Stop Patch	40.198051	-85.988411	195+88						
21	Isolated	40.198057	-85.987577	198+19	Westbound	Full Lane				

	Total HMA Patching, Full-Depth Quantity (sq yd)	1,256
	Total Overlay Area(sq yd) [Per our correspondence with RQAW]	18,352
	Percentage of HMA Patching, Full-Depth	6.8%

Point Type	Latitude	Longitude	Station, Line "A"	Direction	Location	Length (ft)	Width (ft)	Area (sq yd)
Isolated	40.197553	-86.021640	103+93	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197551	-86.021432	104+50	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197556	-86.021340	104+76	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197551	-86.020807	106+23	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197550	-86.020749	106+39	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197550	-86.020651	106+66	Eastbound Westbound	Full Lane	6	20	13
Start Patch	40.197566	-86.019999	108+46	Eastbound	Outside Wheel Path	61	5	34
Stop Patch	40.197559	-86.019782	109+06					
Isolated	40.197541	-86.018373	112+95	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197547	-86.018298	113+16	Eastbound Westbound	Full Lane	6	20	13
Start Patch	40.197551	-86.017149	116+33	Eastbound	Outside Wheel Path	32	5	18
Stop Patch	40.197551	-86.017035	116+65					
Isolated	40.197539	-86.016632	117+76	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197540	-86.016557	117+97	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197537	-86.016308	118+66	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197537	-86.016188	118+99	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197537	-86.016084	119+28	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197539	-86.015857	119+90	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.198028	-86.004315	151+95	Eastbound Westbound	Full Lane	10	20	22
Isolated	40.197963	-86.004113	152+50	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197964	-86.003322	154+69	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197964	-86.003266	154+84	Eastbound Westbound	Full Lane	6	20	13
Start Patch	40.198015	-85.979815	219+63	Eastbound	Outside Wheel Path	36	5	20
Stop Patch	40.198015	-85.979686	219+98					
Isolated	40.197995	-85.978365	223+63	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197993	-85.977955	224+77	Eastbound Westbound	Full Lane	6	20	13
Isolated	40.197995	-85.977690	225+50	Eastbound Westbound	Full Lane	6	20	13

Total HMA Patching, Partial-Depth Quantity (sq yd)	360
Total Overlay Area(sq yd) [Per our correspondence with RQAW]	18,352
Percentage of HMA Patching, Partial-Depth	2.0%

		RECOMMENDED FOR APPROVAL _____		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE		
		DESIGN ENGINEER _____ DATE _____			VERTICAL SCALE	DESIGNATION		
						2003031		
		DESIGNED: <u>MJR</u>	DRAWN: <u>MJR</u>	PATCHING TABLES	SURVEY BOOK	SHEET		
		CHECKED: <u>NDH</u>	CHECKED: <u>NDH</u>			88	of	179
					CONTRACT	PROJECT		
					R-43619	2003031		

MONUMENT TABLE									
LOCATION					MONUMENT, TYPE				SECTION CORNER
STATION	LEFT	CENTER LINE	RIGHT	OFFSET	A	B	C	D	
LINE "A"									
P.I. 101+68.57		X							X
STA. 102+61.23			X	16.17					
STA. 111+72.82	X								
STA. 121+22.01			X	39.82					
STA. 127+70.44	X			26.07					
STA. 136+83.19	X			11.26					
STA. 146+08.07			X	13.04					
P.I. 149+41.65		X							X
STA. 150+82.38	X			13.06					
STA. 158+40.44	X			13.66					
STA. 169+01.26			X	13.12					
P.I. 175+98.10		X							X
STA. 178+92.16	X			12.71					
STA. 188+97.25			X	12.88					
STA. 199+17.13	X			14.99					
STA. 208+45.69	X			15.52					
STA. 211+35.34	X			14.48					
STA. 220+75.27	X			15.20					
STA. 228+51.35	X			26.91					
P.I. 228+93.27		X							X
TOTAL					0	0	0	0	4

		RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
					VERTICAL SCALE	DESIGNATION
						2003031
		DESIGNED: MJR 9/25/2024	DRAWN: MJR 9/25/2024	MISCELLANEOUS TABLES	SURVEY BOOK	SHEET
		CHECKED: NDH 1/9/2025	CHECKED: NDH 1/9/2025		89 of 179	
					CONTRACT	PROJECT
					R-43619	2003031

PAVEMENT QUANTITIES AND APPROACH TABLE

[illegible]

		RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 20'		BRIDGE FILE			
						VERTICAL SCALE N/A		DESIGNATION 2003031			
		DESIGNED: <u>MJR 10/3/2024</u>	DRAWN: <u>MJR 10/3/2024</u>	APPROACH TABLE_1				SURVEY BOOK		SHEET 90 of 179	
		CHECKED: <u>NDH 1/9/2025</u>	CHECKED: <u>NDH 1/9/2025</u>					CONTRACT R-43619		PROJECT 2003031	

PRINT DATE: 1/9/25
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EDITED BY:

PAVEMENT QUANTITIES AND APPROACH TABLE

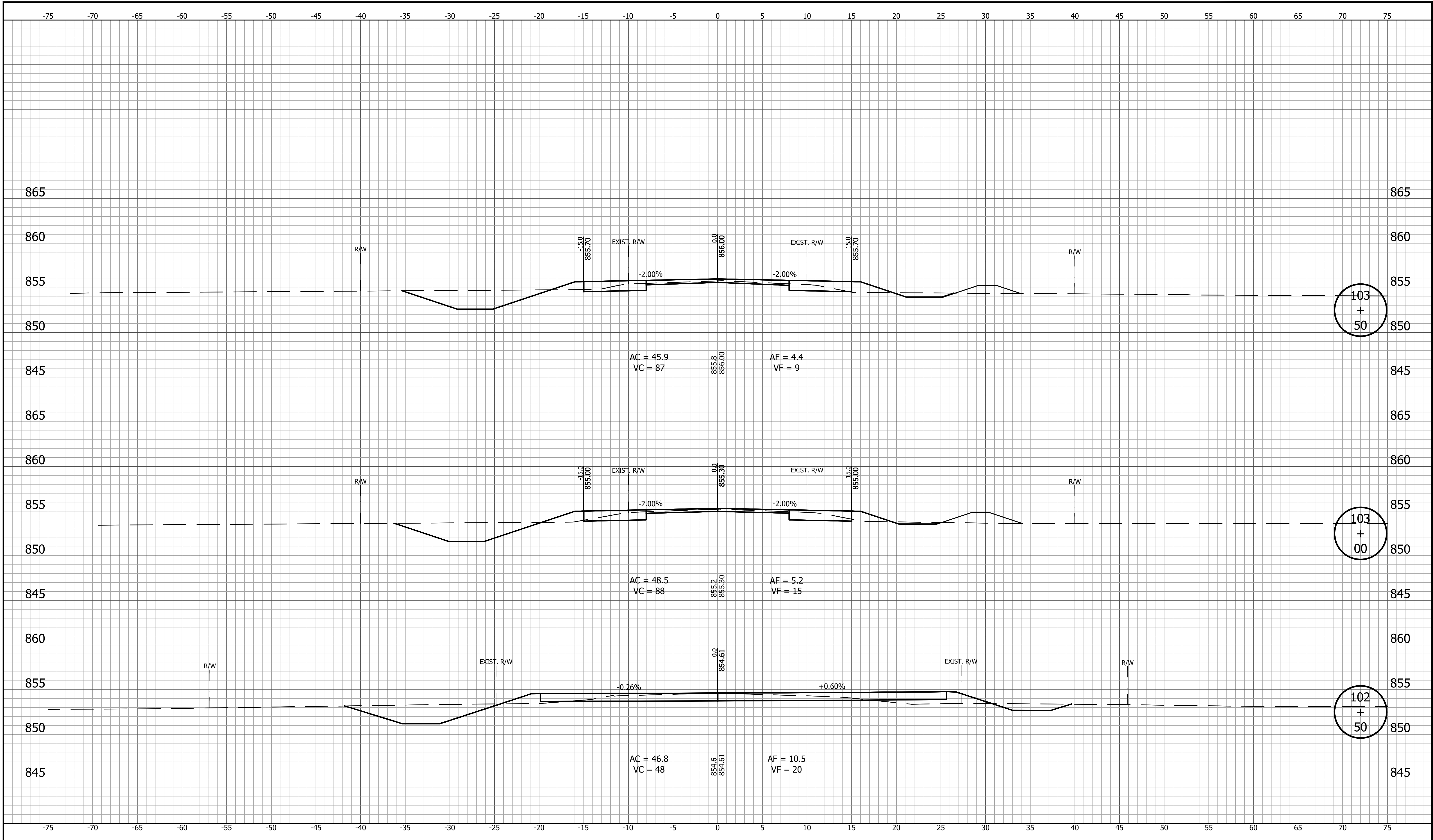
LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	DISTANCE BEYOND R/W LINE	RADII				GRADE (LESS THAN 10% NOT SHOWN)	EXCAVATION		SUBGRADE TREATMENT TYPE II	SUBGRADE TREATMENT TYPE IB	SUBGRADE TREATMENT TYPE IC	DENSE GRADED SUBBASE	GEOGRID TYPE IB	QC/QA - HMA MATERIAL FOR ROADS					HMA FOR			HMA FOR APPROACHES				ASPHALT		PCCP FOR APPROACHES, 6 IN.	LIQUID ASPHALT SEALANT	COMPACTED AGGREGATE NO. 53	COMPACTED AGGREGATE NO. 53	JOINT ADHESIVE, SURFACE	JOINT ADHESIVE, INTERMEDIATE	MILLING, APPROACH	MILLING, PROFILE	MILLING, ASPHALT, 1 1/2 IN.	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
																	2, 58S, SURFACE, 9.5 mm	2, 58S, INTERMEDIATE, 19.0 mm	2, 58S, BASE, 25.0 mm	2, 58S, BASE, 25.0 mm		WIDENING, TYPE B	PATCHING, TYPE B	SIDEWALK	TYPE B	TYPE B	TYPE B	TYPE B	FOR PRIME COAT	FOR TACK COAT																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
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		165 TON	275 TON	660 TON			935 TON	1320 TON	360 TON	935 TON	165 TON	275 TON	660 TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON		TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON	TON

		RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION				HORIZONTAL SCALE		BRIDGE FILE								
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								SURVEY BOOK				SHEET										
												91		of		179						
												CONTRACT		PROJECT								
												R-43619		2003031								

STRUCTURE DATA

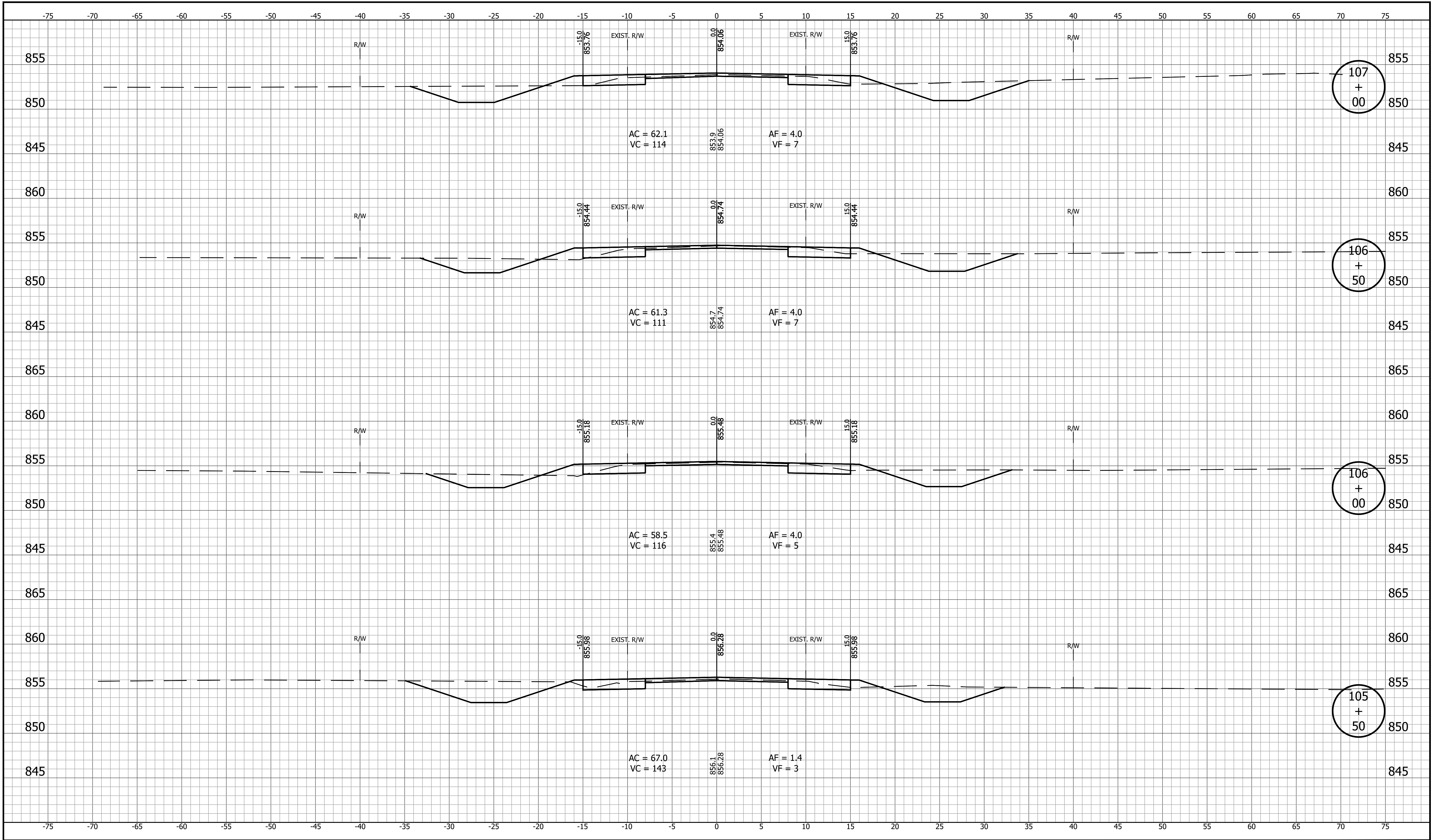
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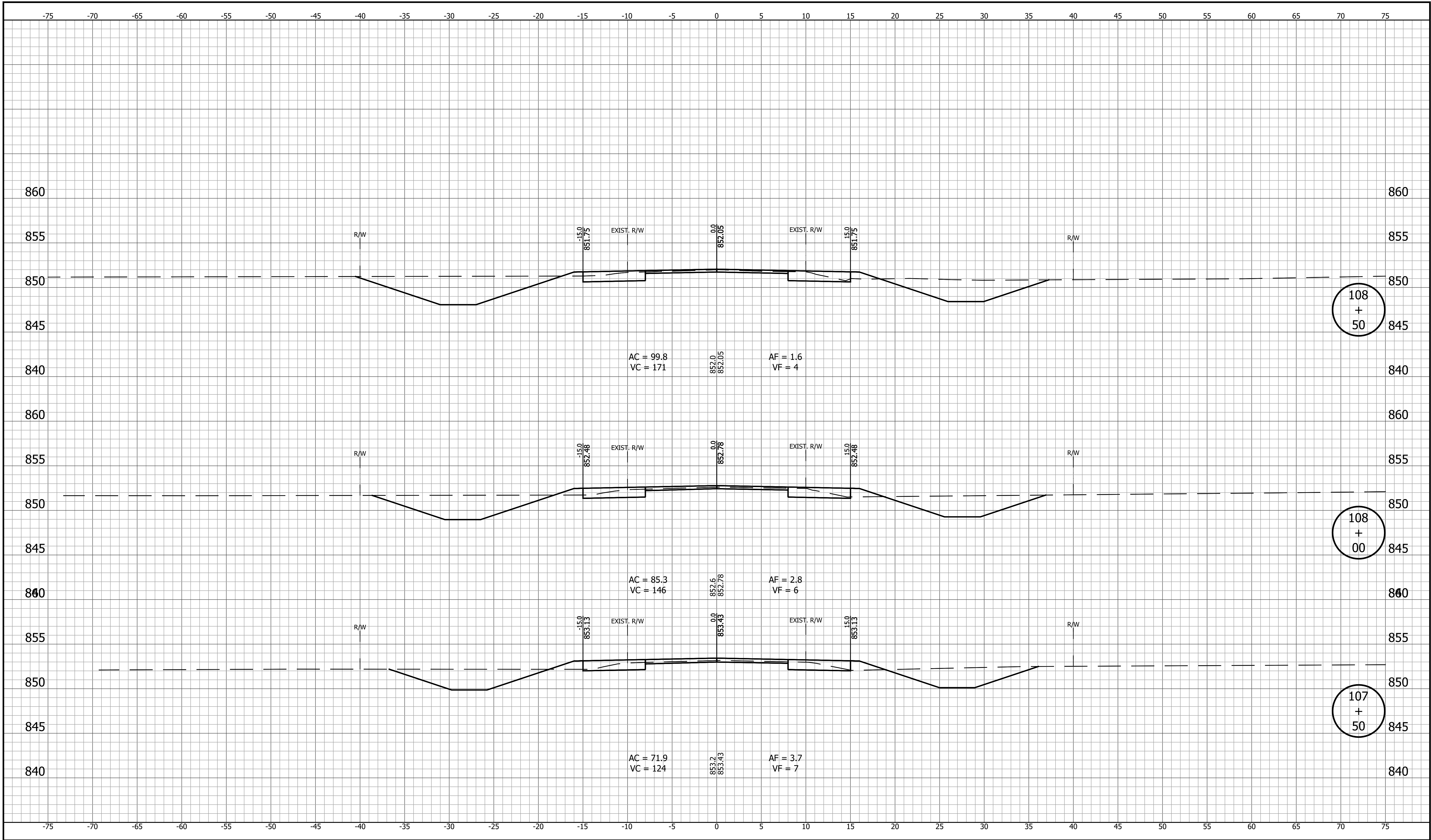
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										94 of 179			
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								R-43619		2003031			

PRINT DATE: 1/9/25
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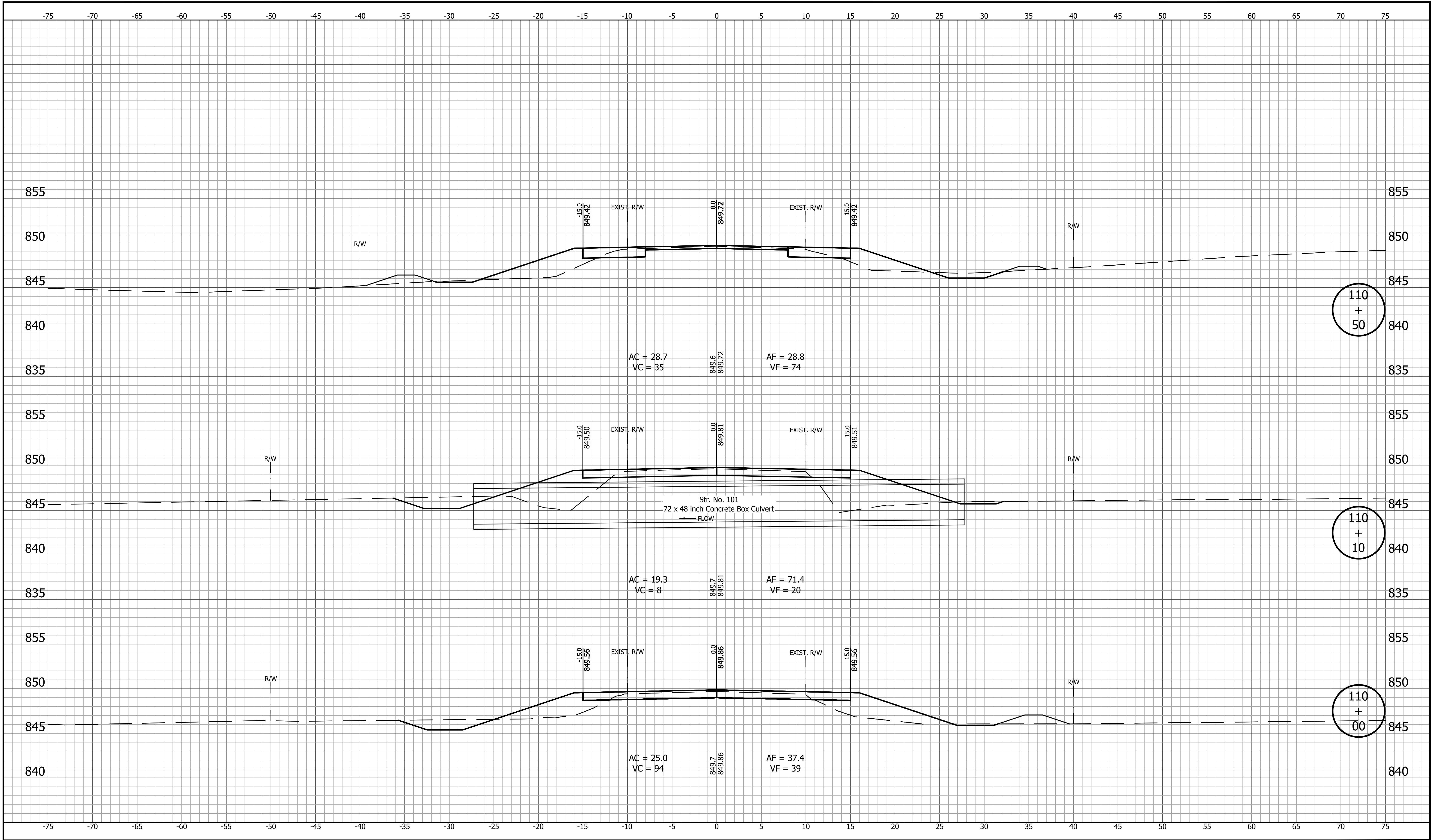
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		CHECKED: RDS 1/9/2025		CHECKED: YZ 1/9/2025						SURVEY BOOK	SHEET
										CONTRACT R-43619	96 of 179 PROJECT 2003031

PRINT DATE: 1/9/25
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EDIT DATE: 12/20/24 - 12:12 PM EDITED BY: EBYERS



		RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE		INDIANA DEPARTMENT OF TRANSPORTATION				HORIZONTAL SCALE 1" = 5'		BRIDGE FILE	
												VERTICAL SCALE 1" = 5'		DESIGNATION 2003031	
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PRINT DATE: 1/9/25
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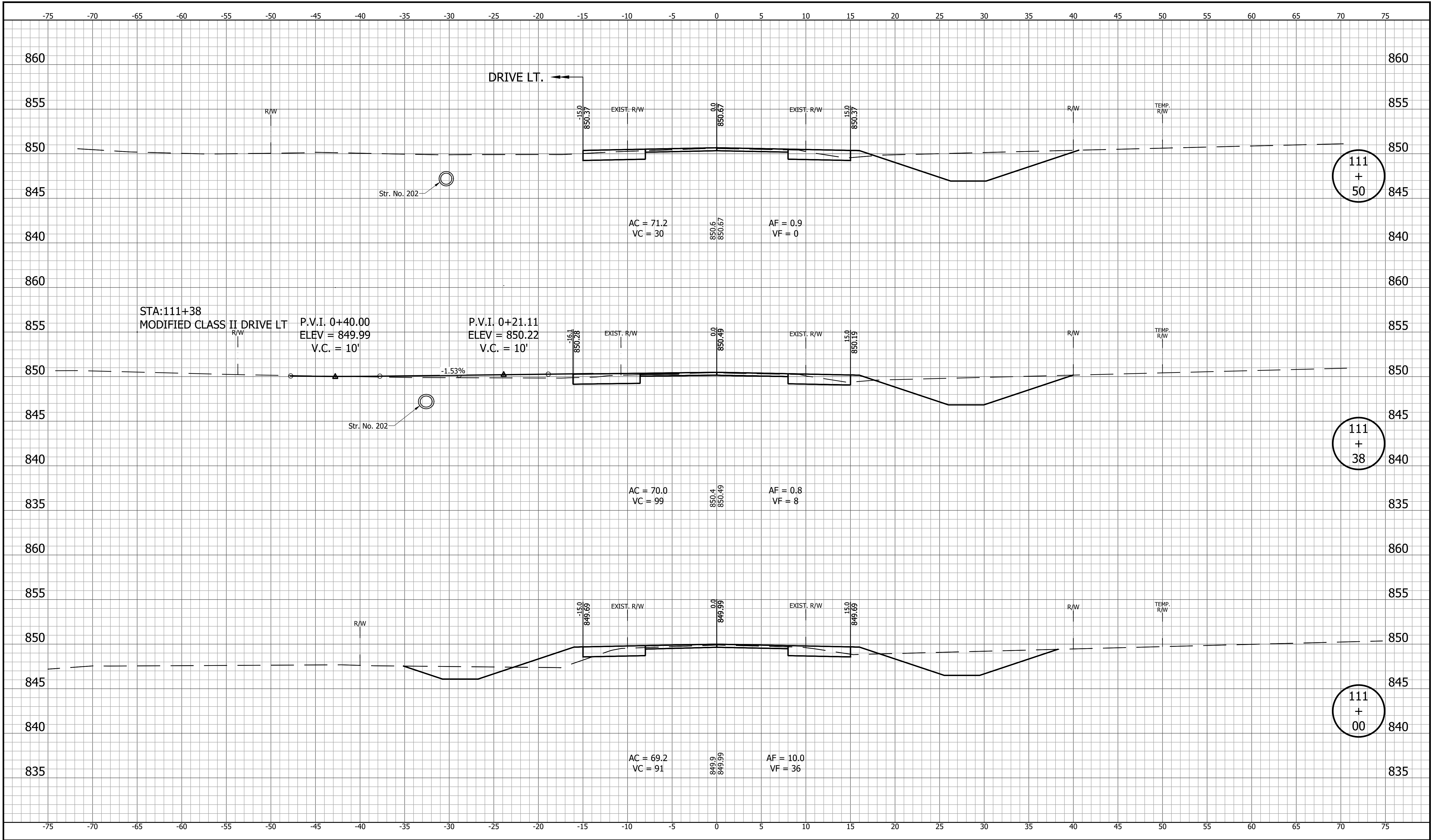


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										1" = 5'		2003031	
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												99 of 179	
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										R-43619		2003031	

DESIGNED: YZ 12/20/2024	DRAWN: MRM 12/20/2024
CHECKED: RDS 1/9/2025	CHECKED: YZ 1/9/2025

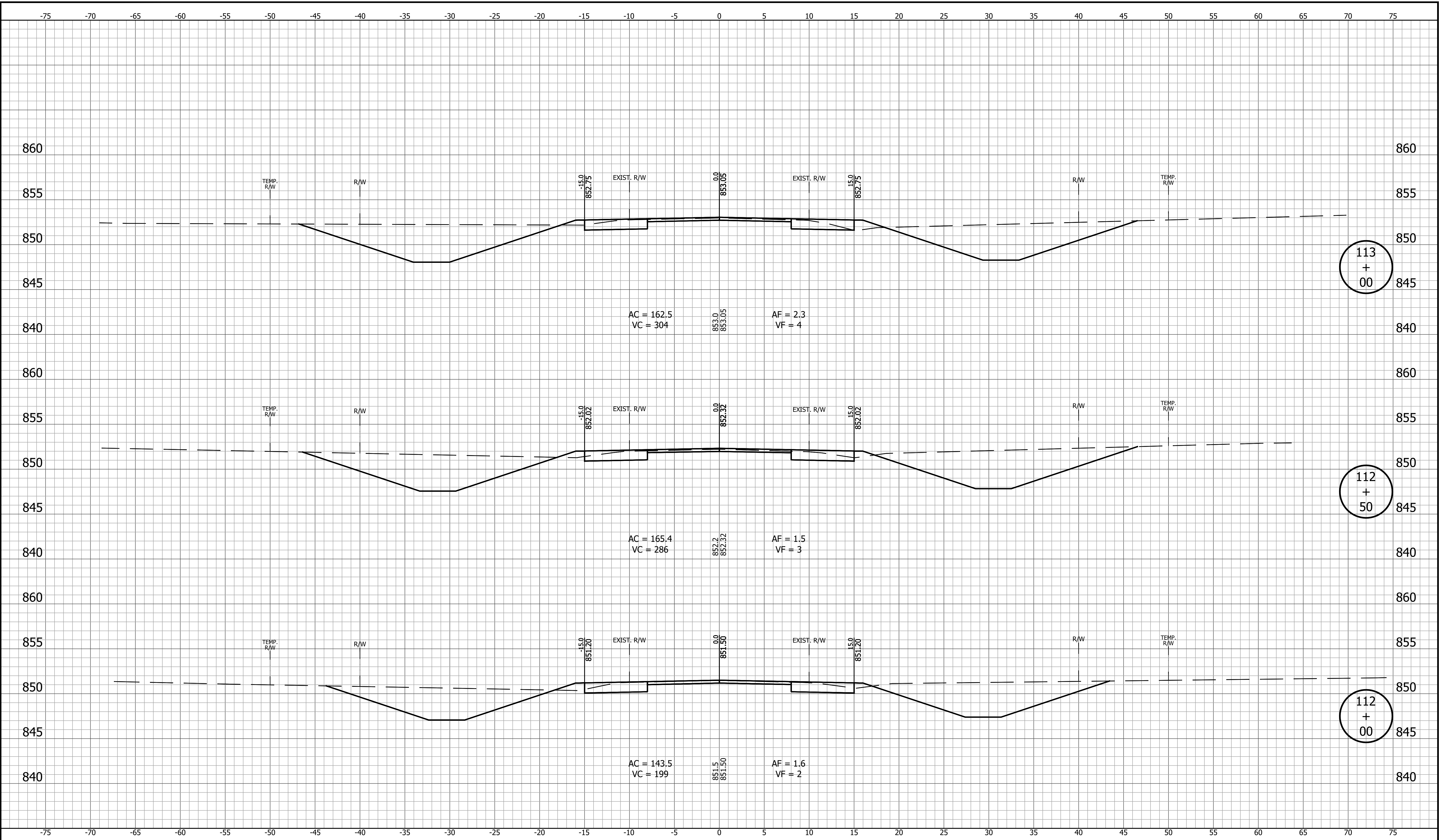
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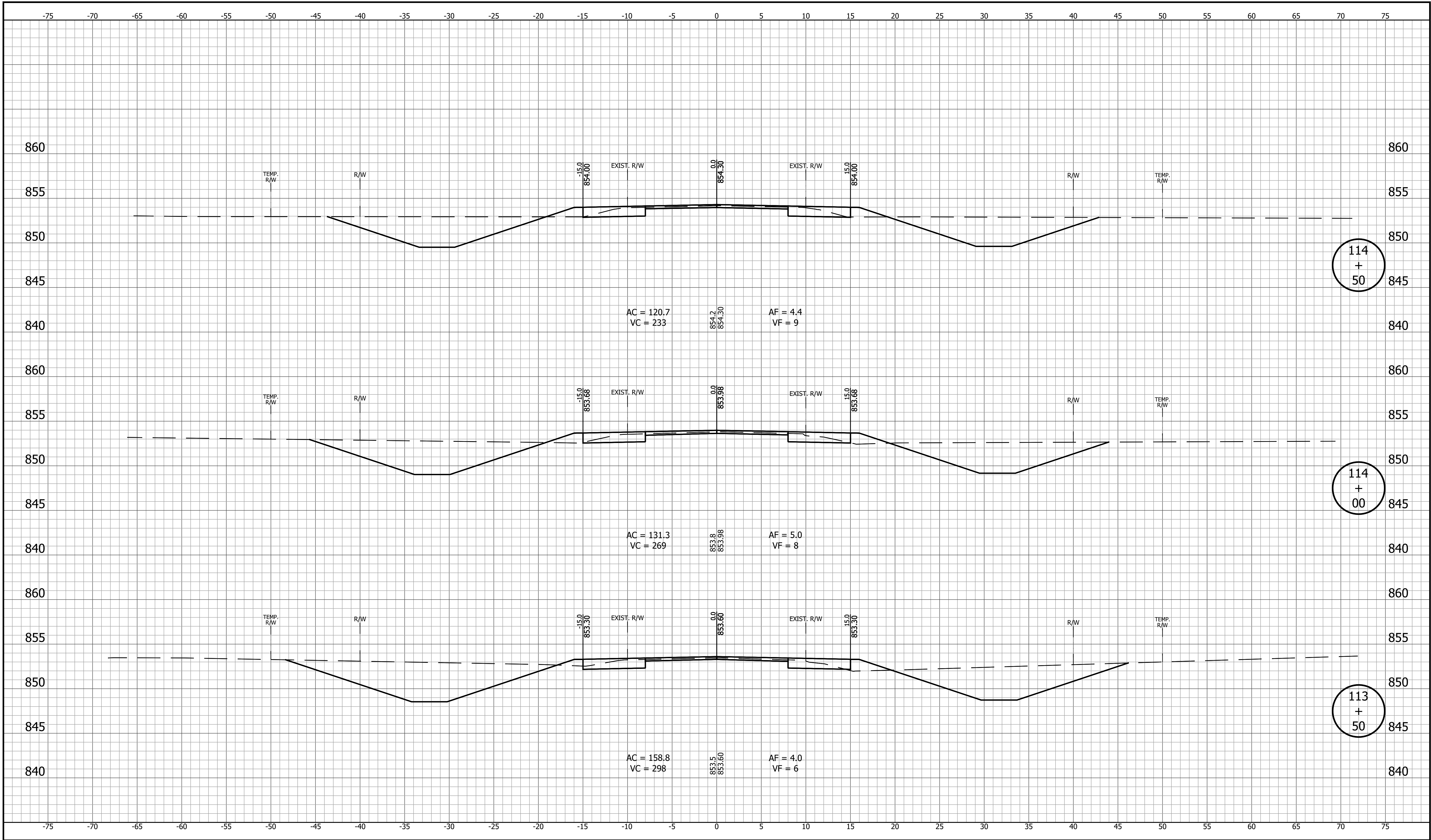
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						SURVEY BOOK	SHEET 100 of 179
						CONTRACT R-43619	PROJECT 2003031
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PRINT DATE: 1/9/25
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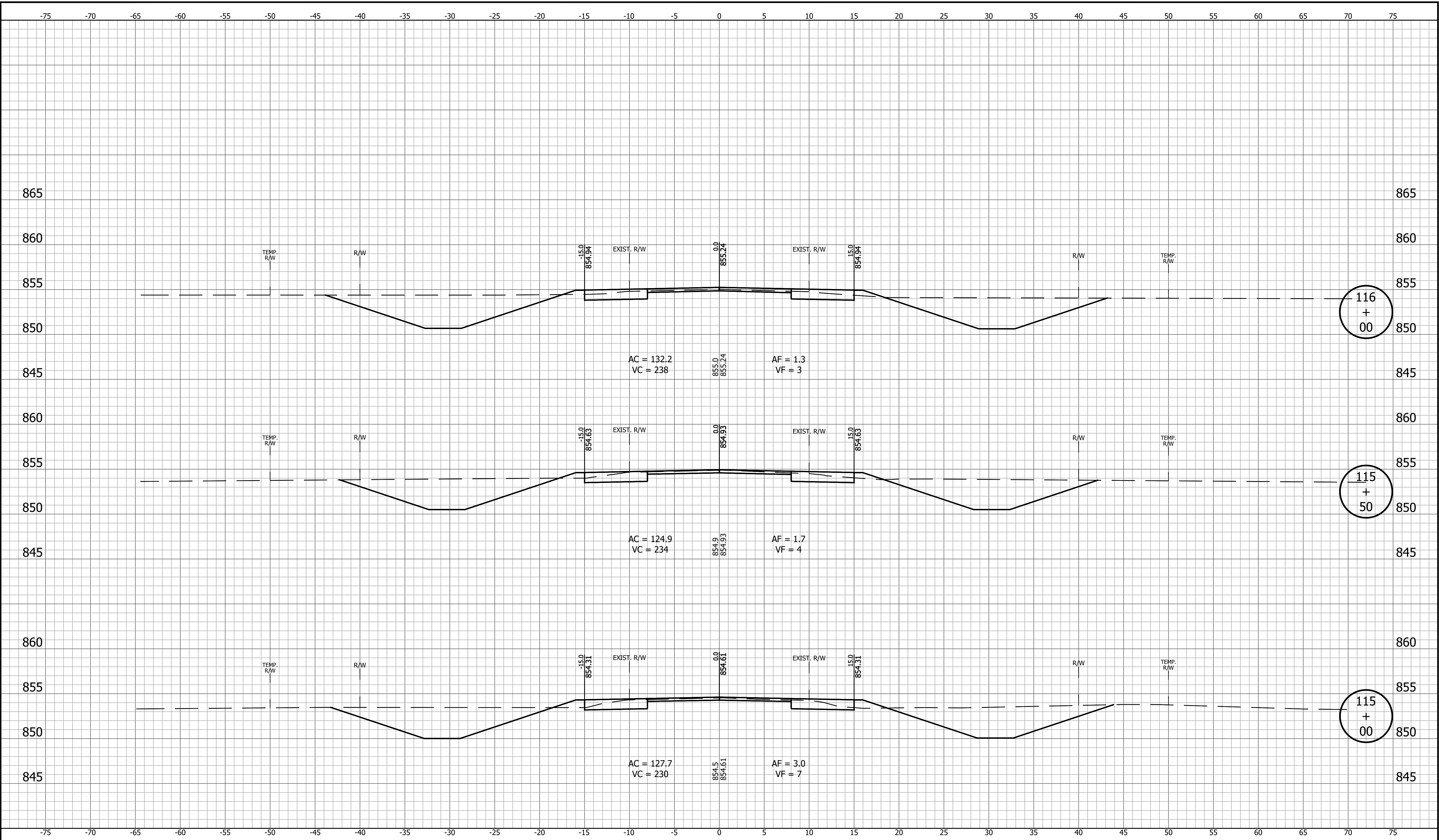
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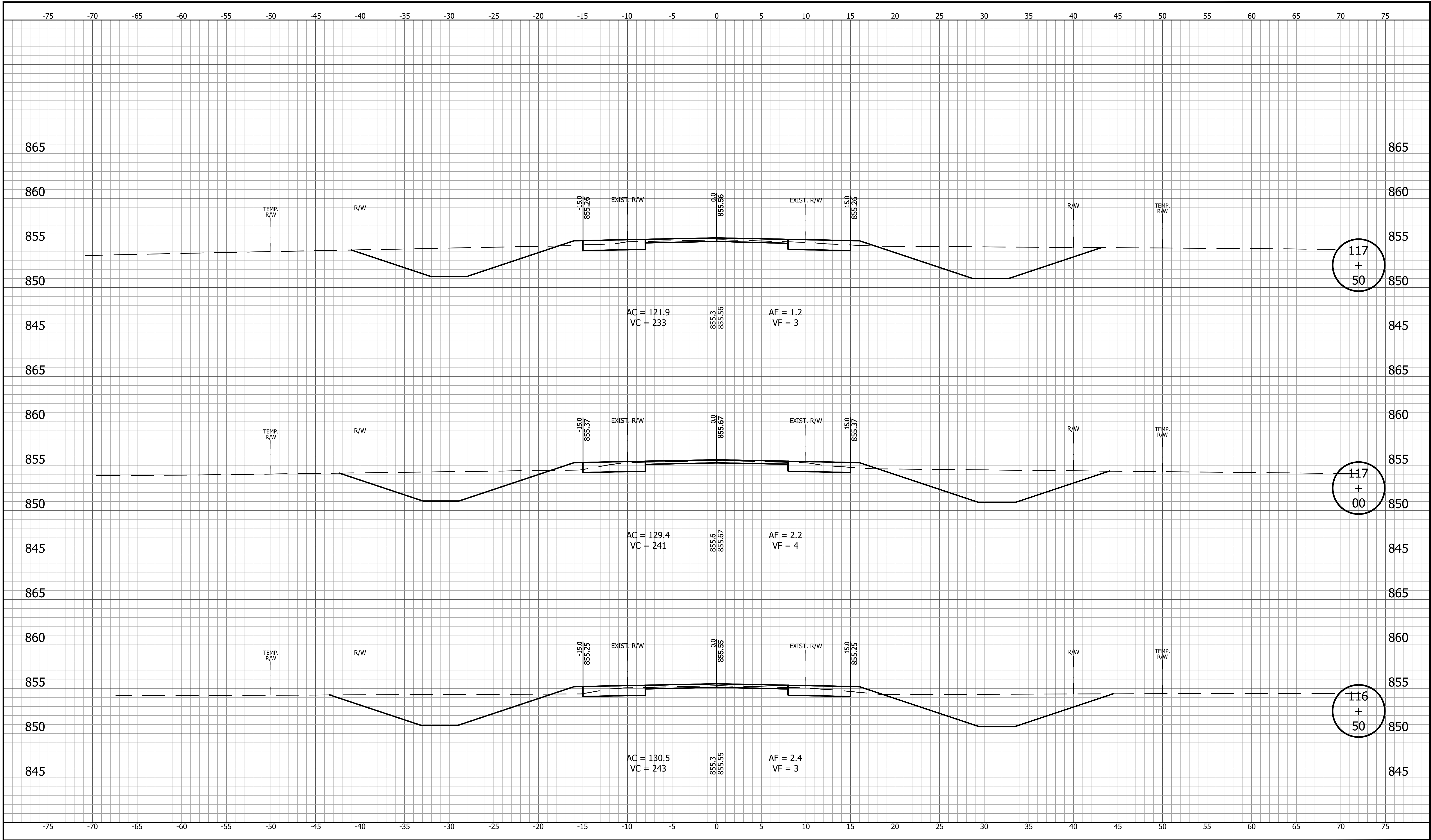
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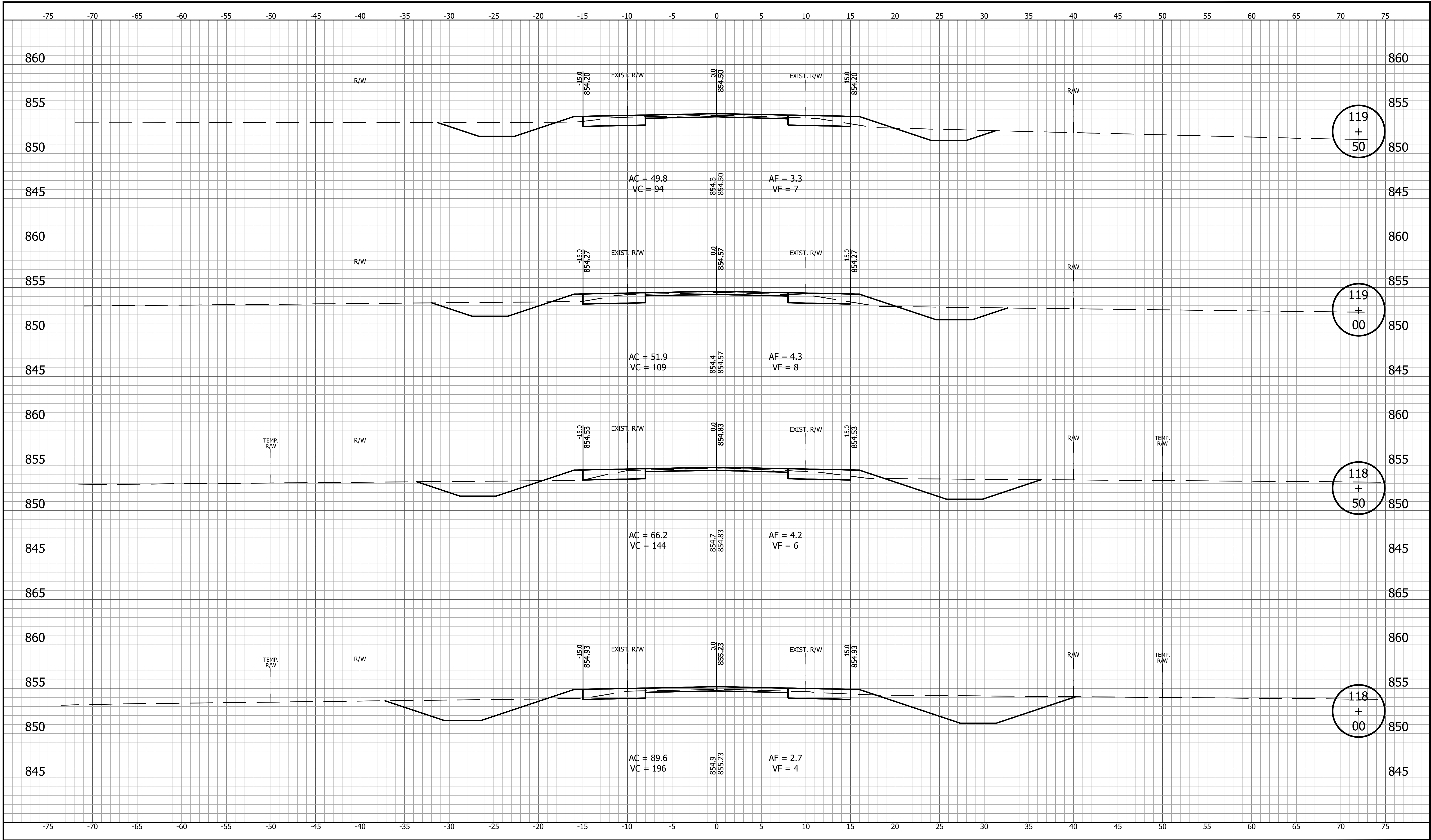
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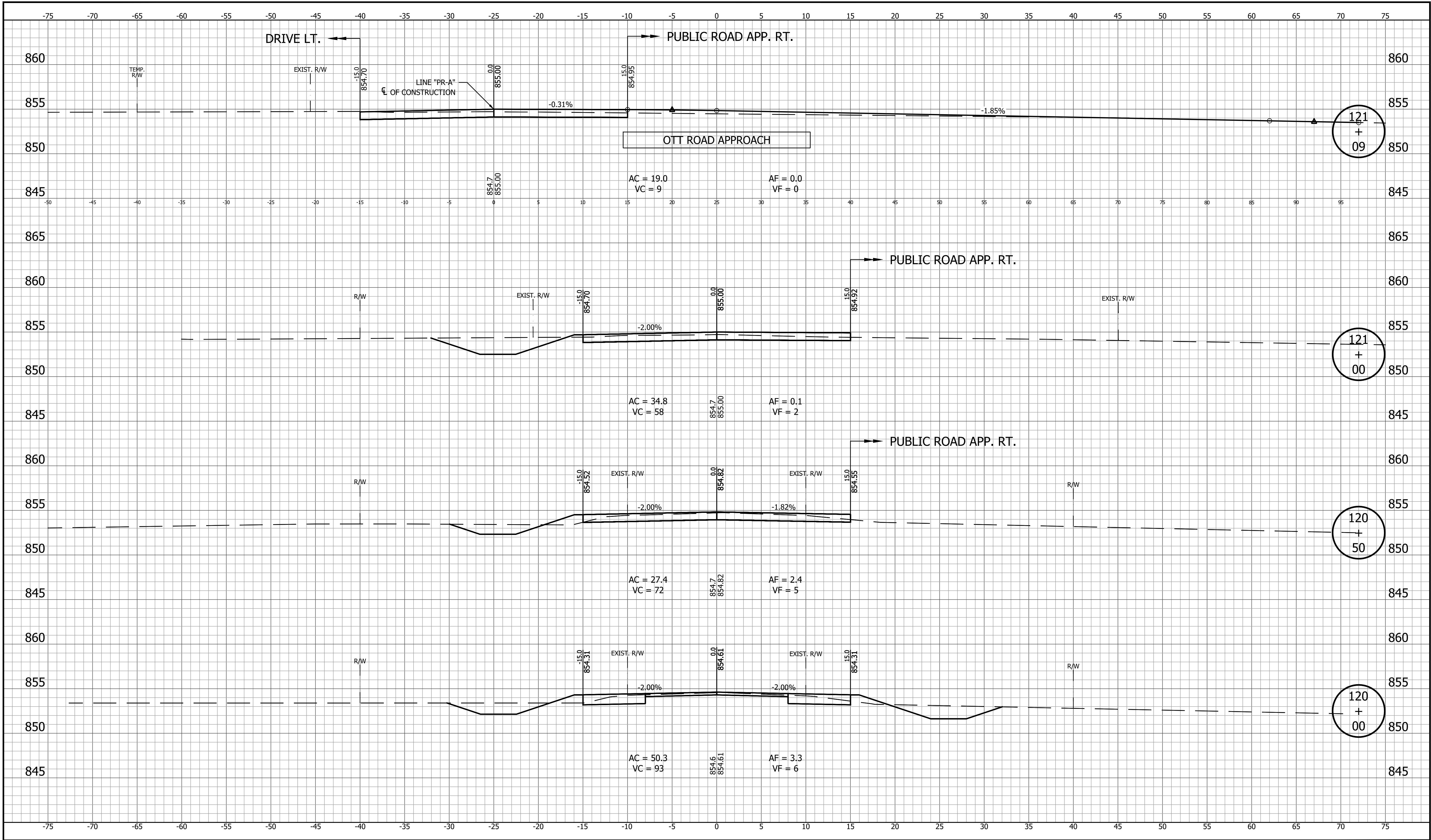
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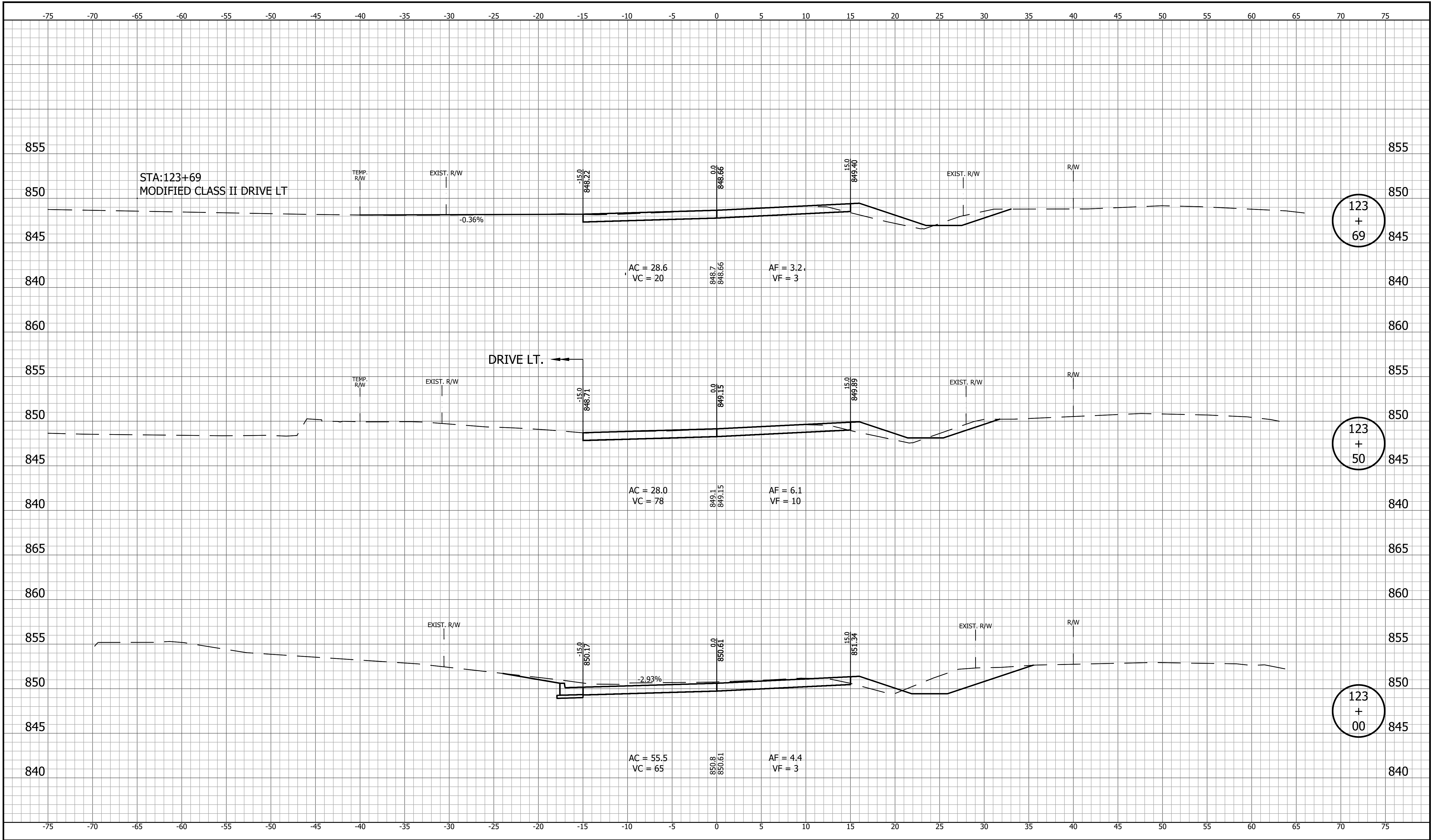
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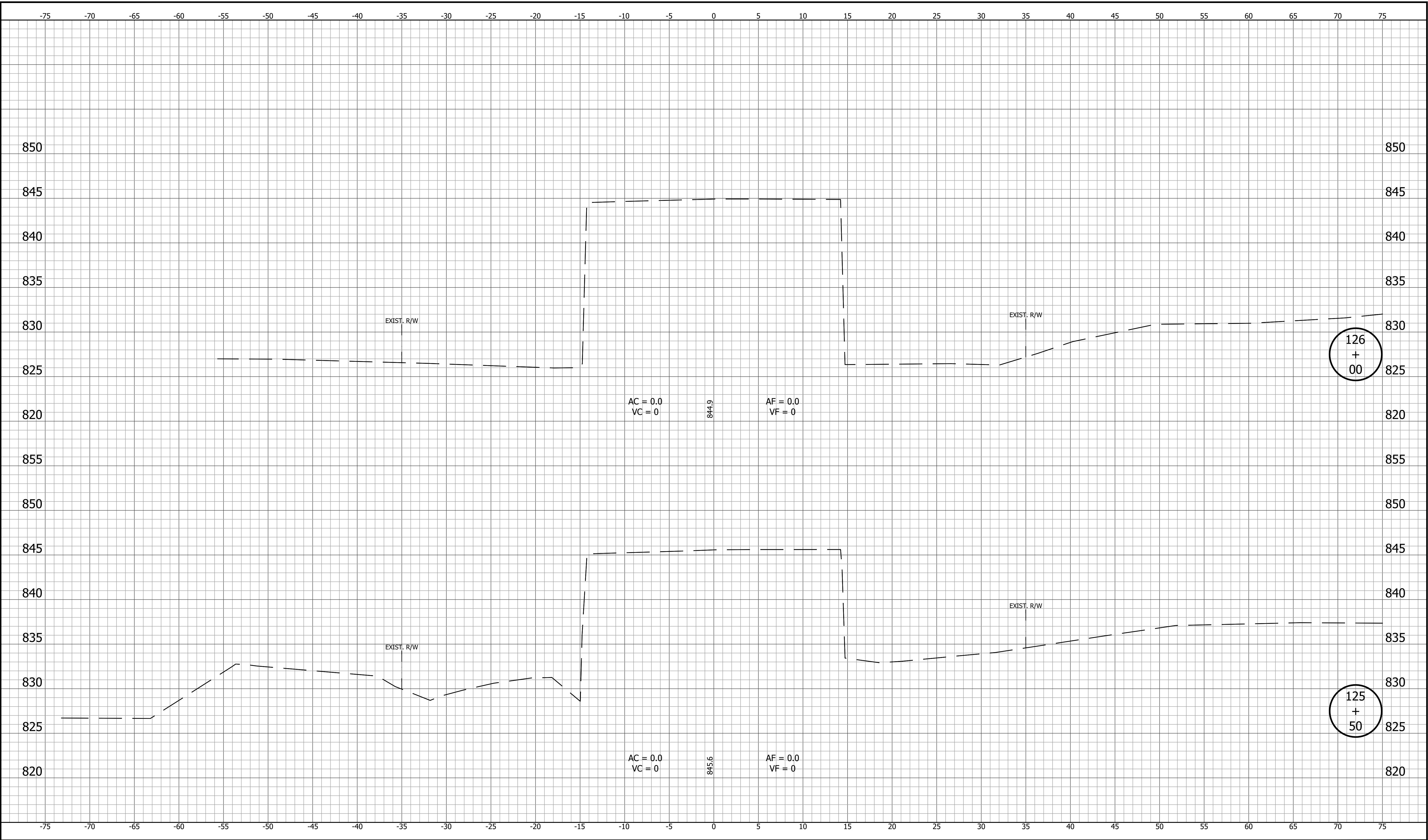
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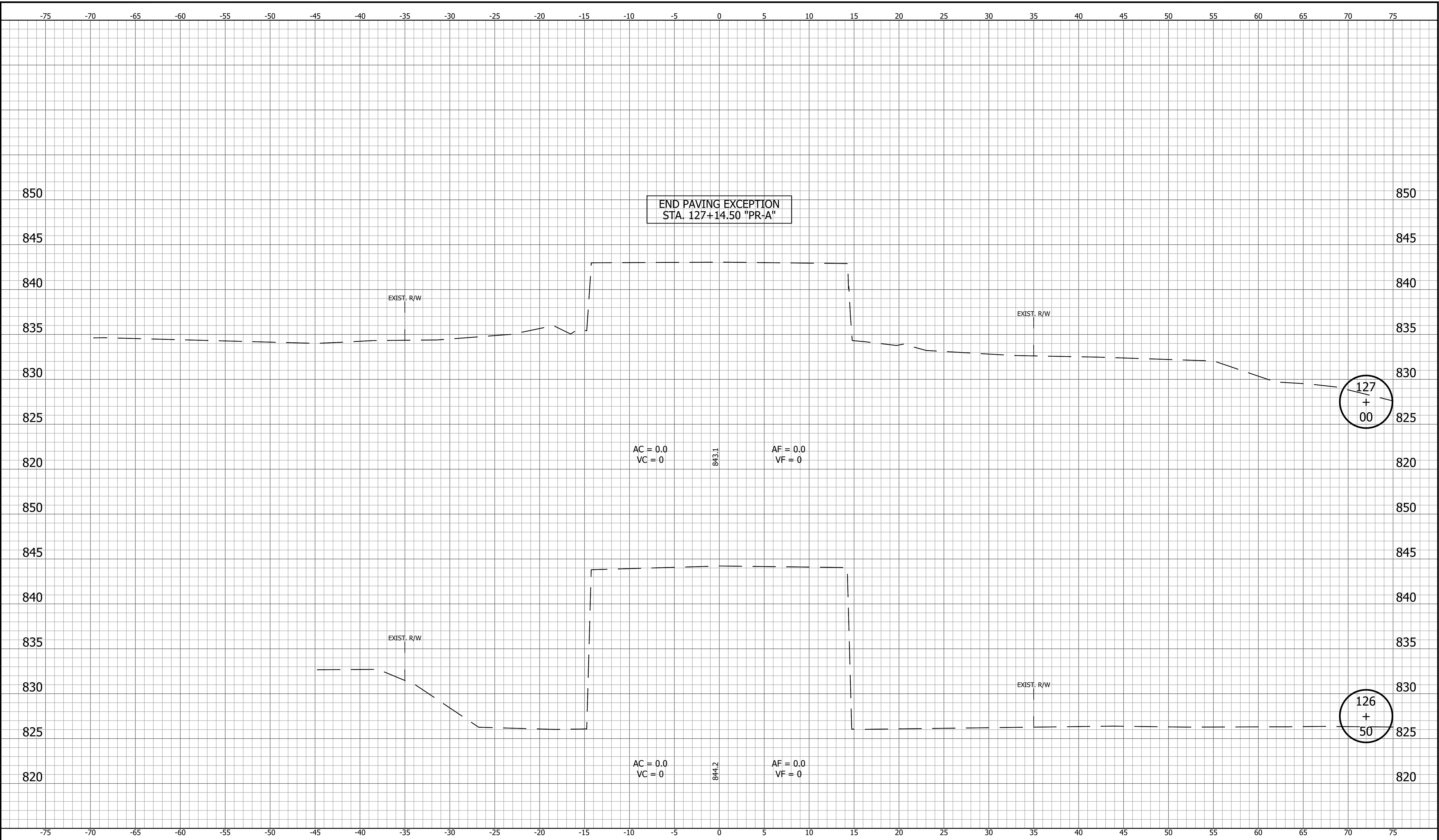
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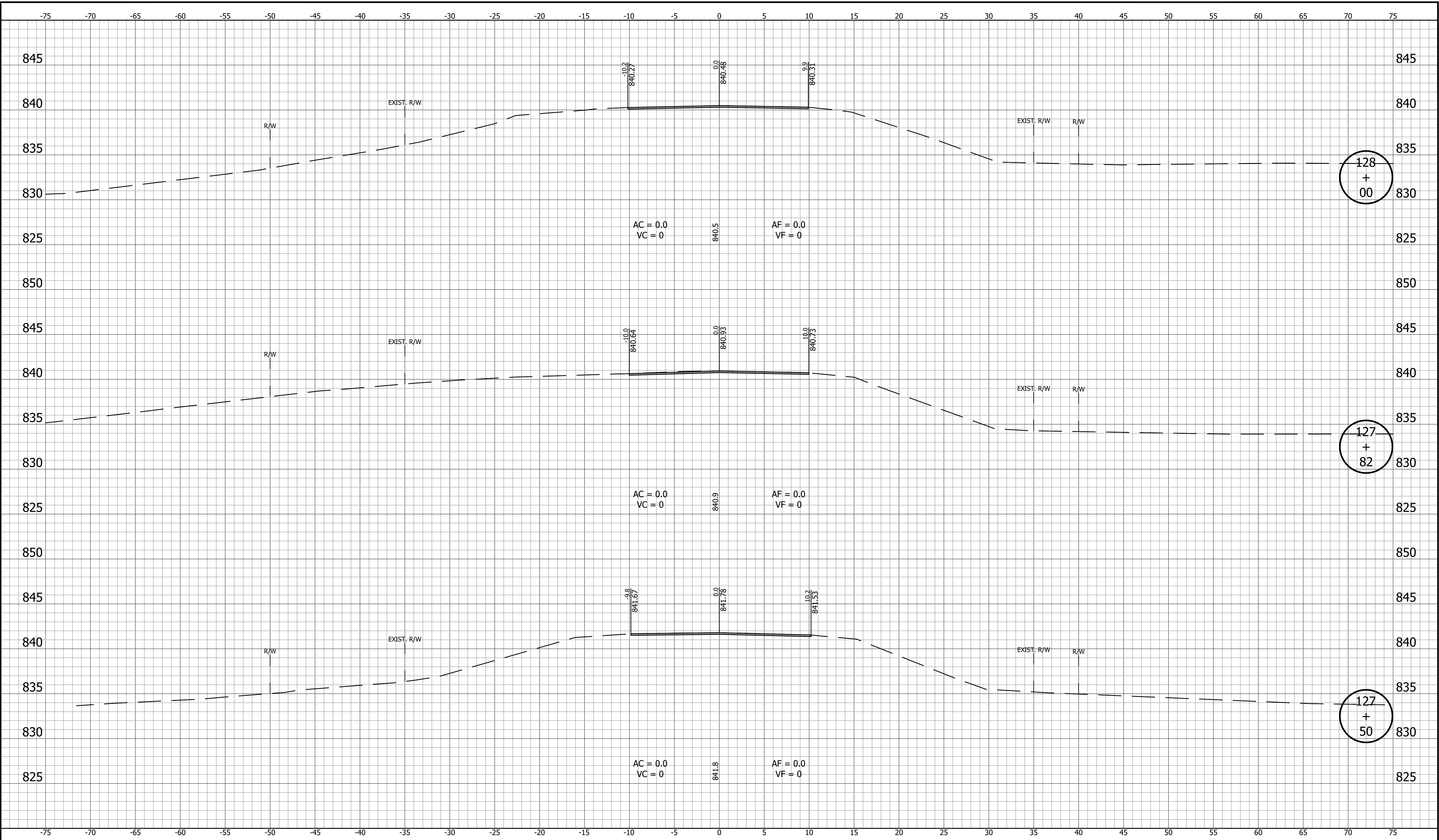
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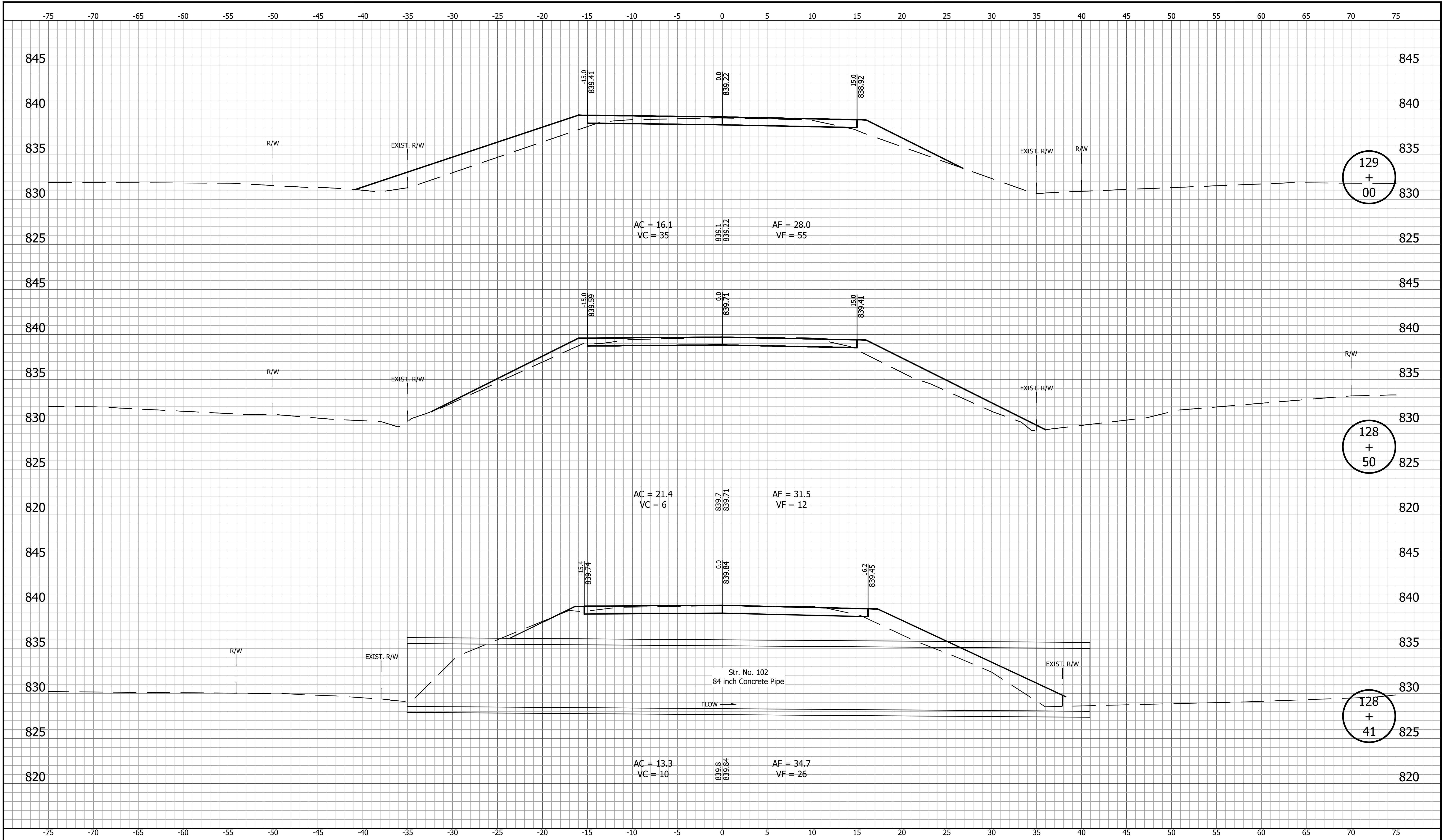
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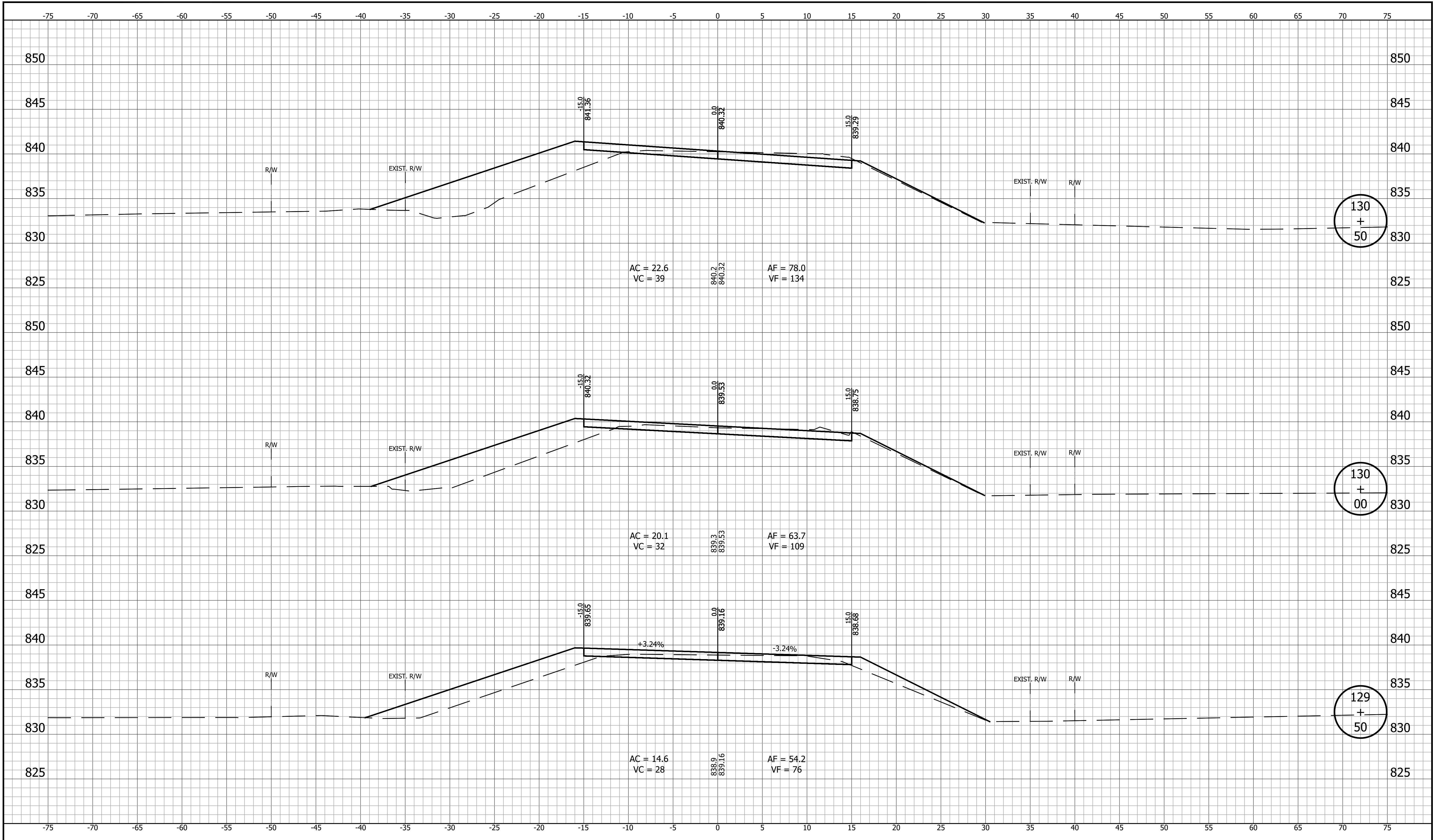
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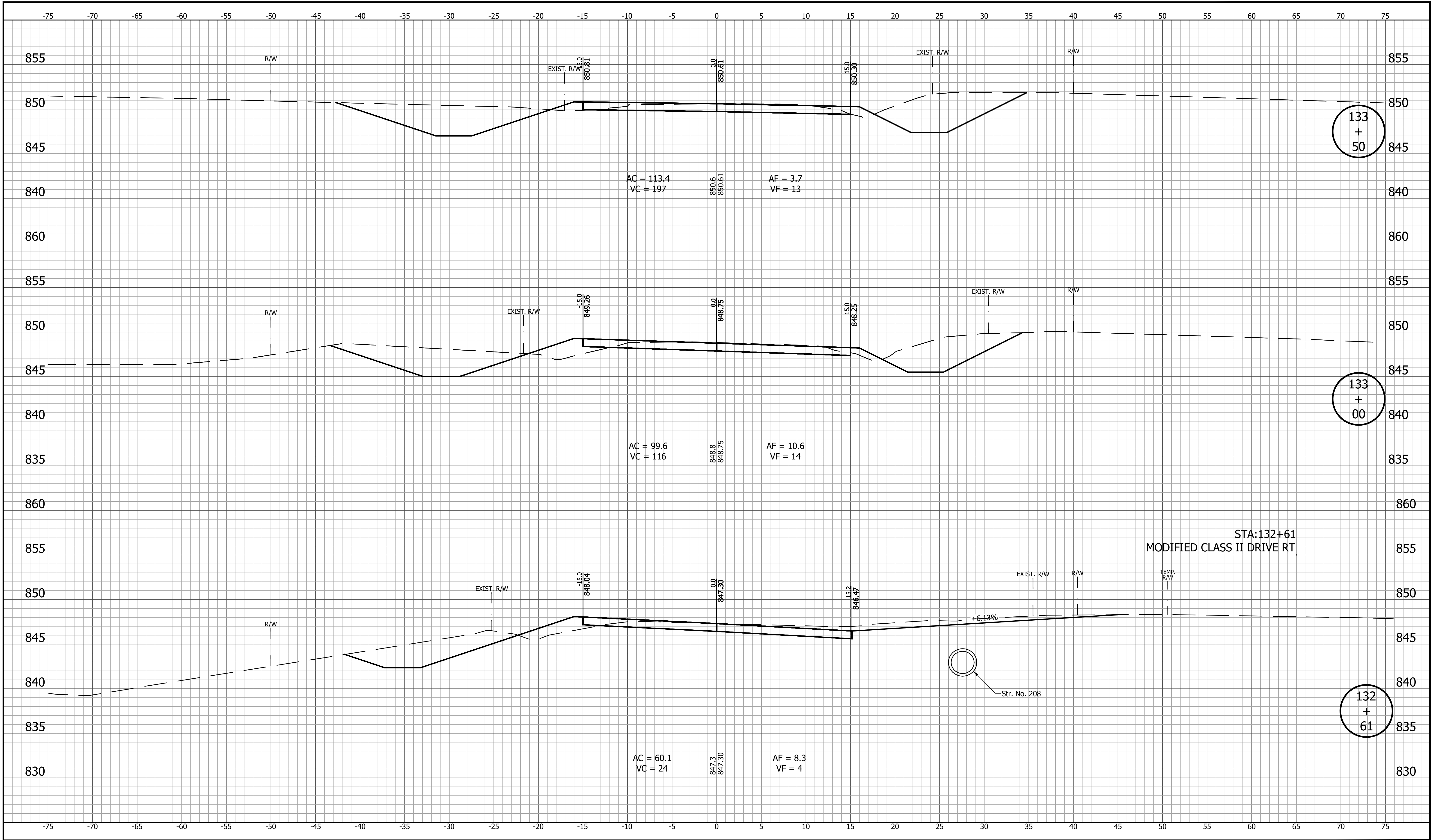
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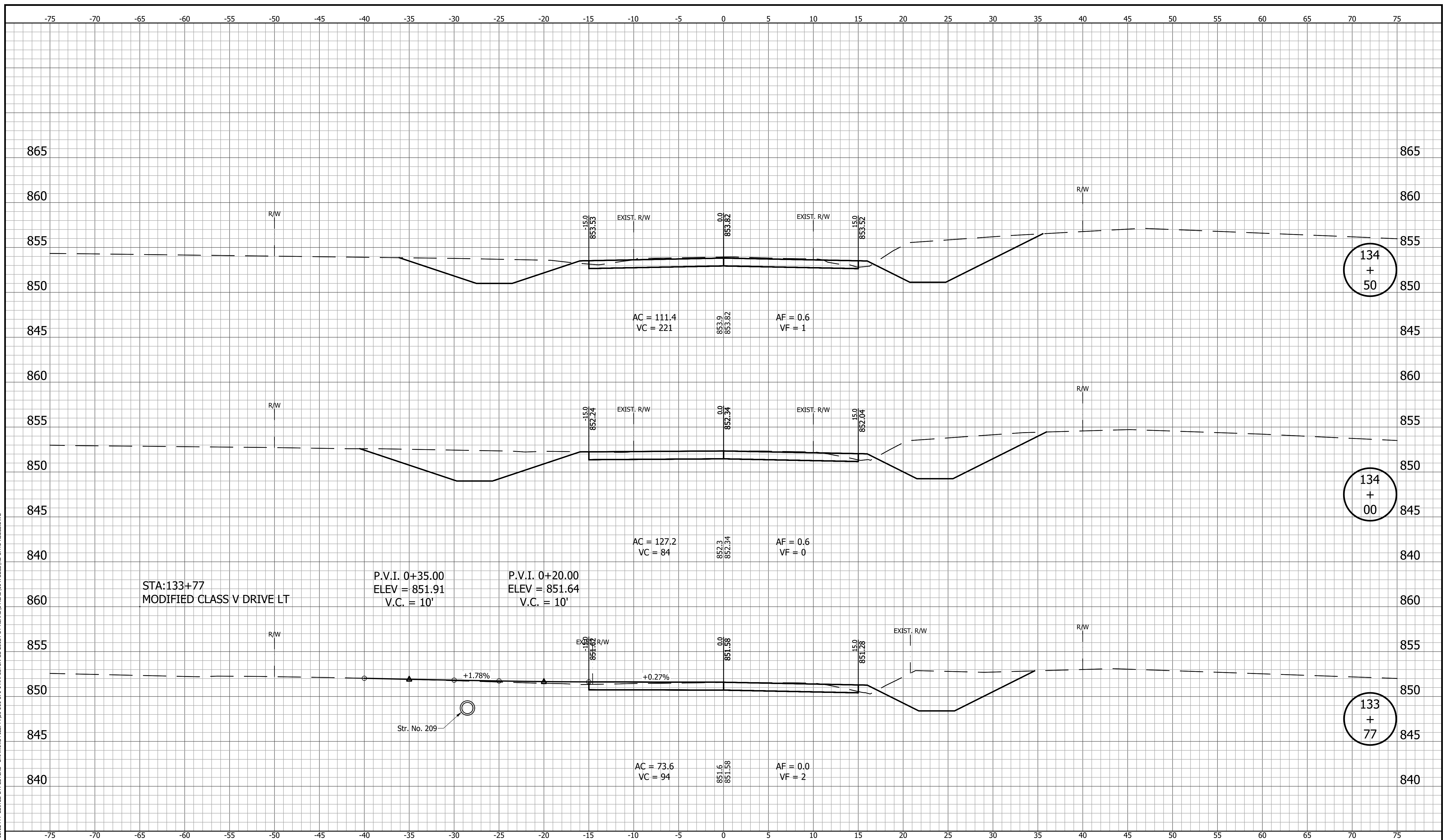


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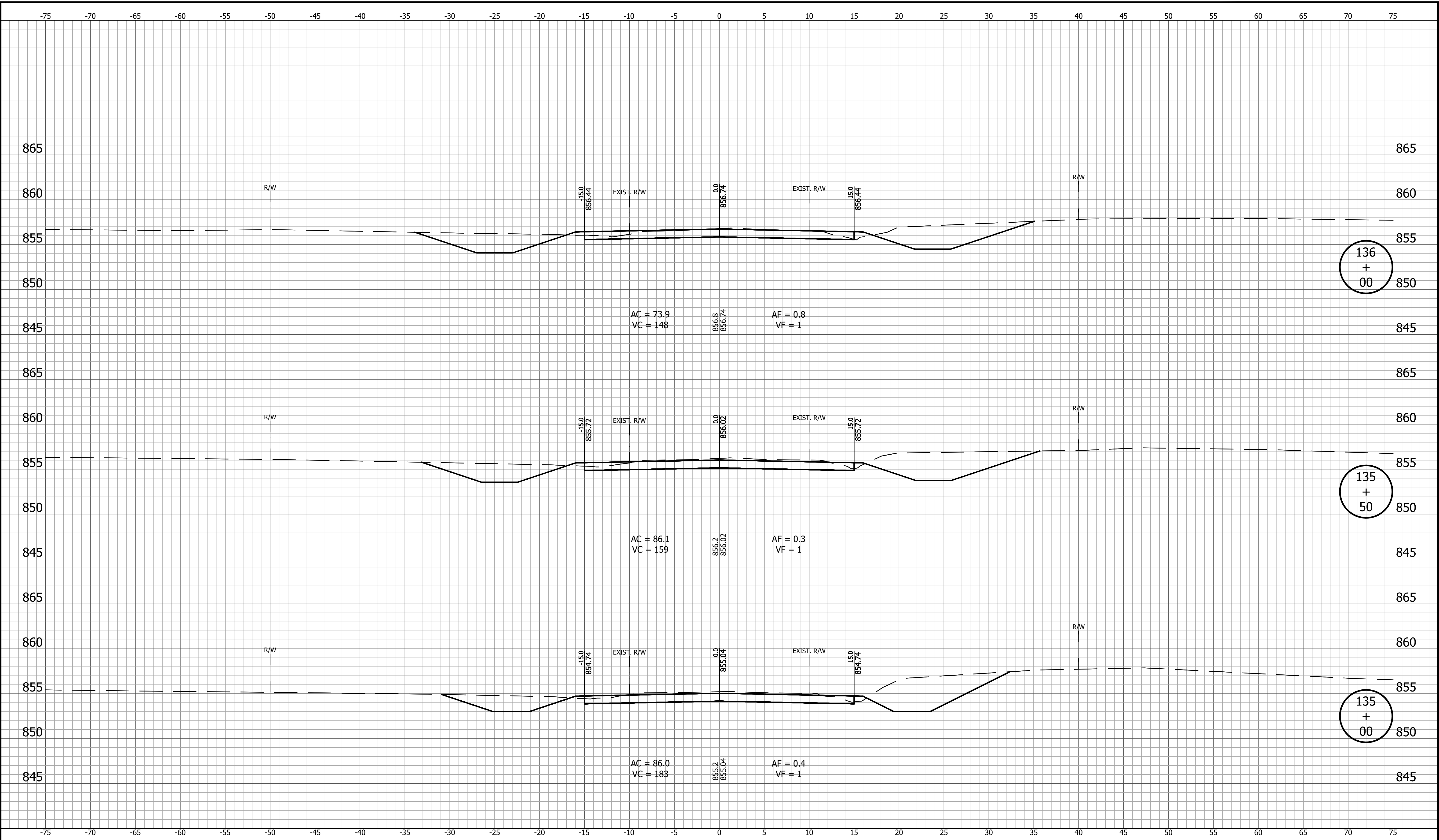


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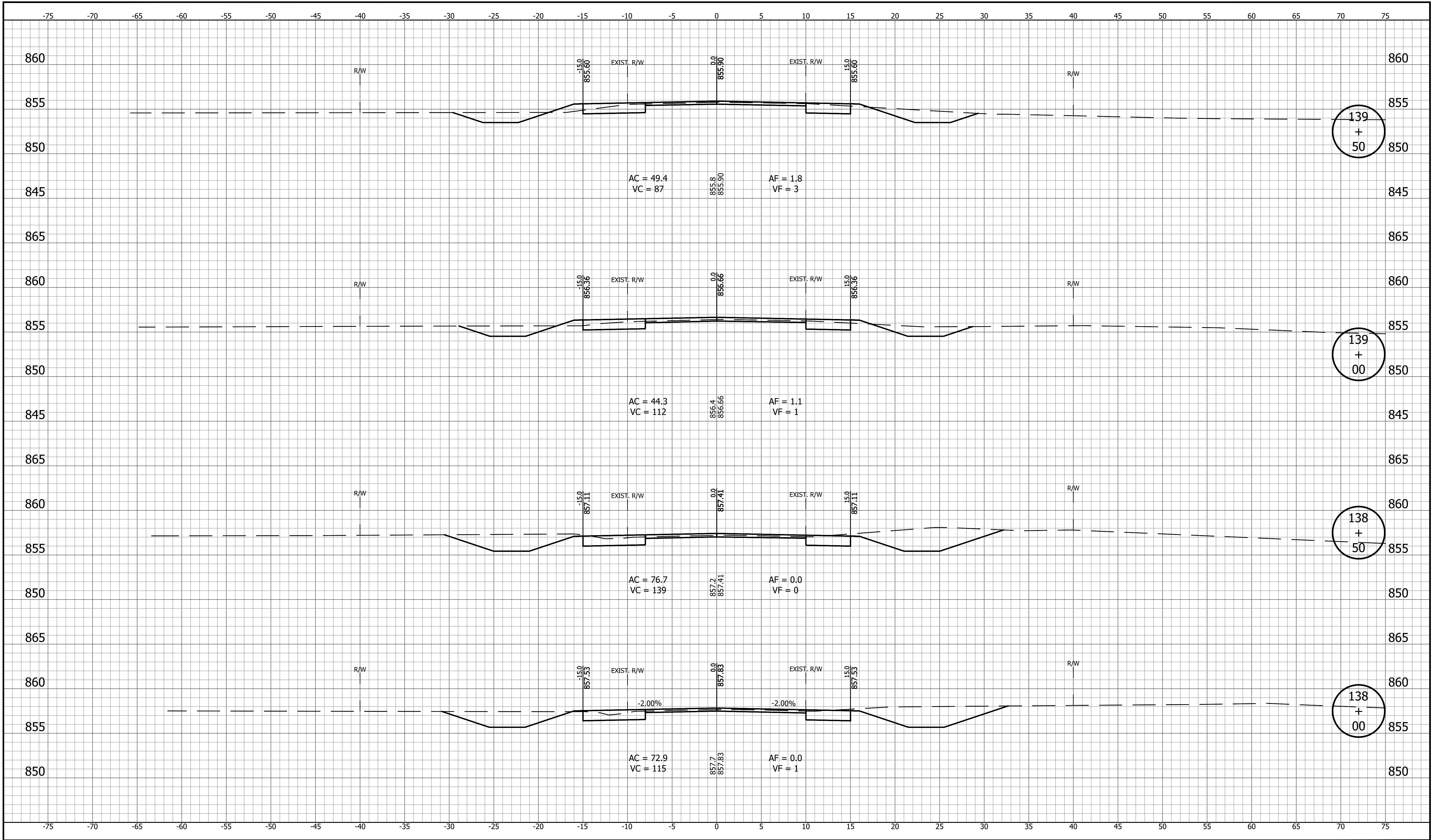
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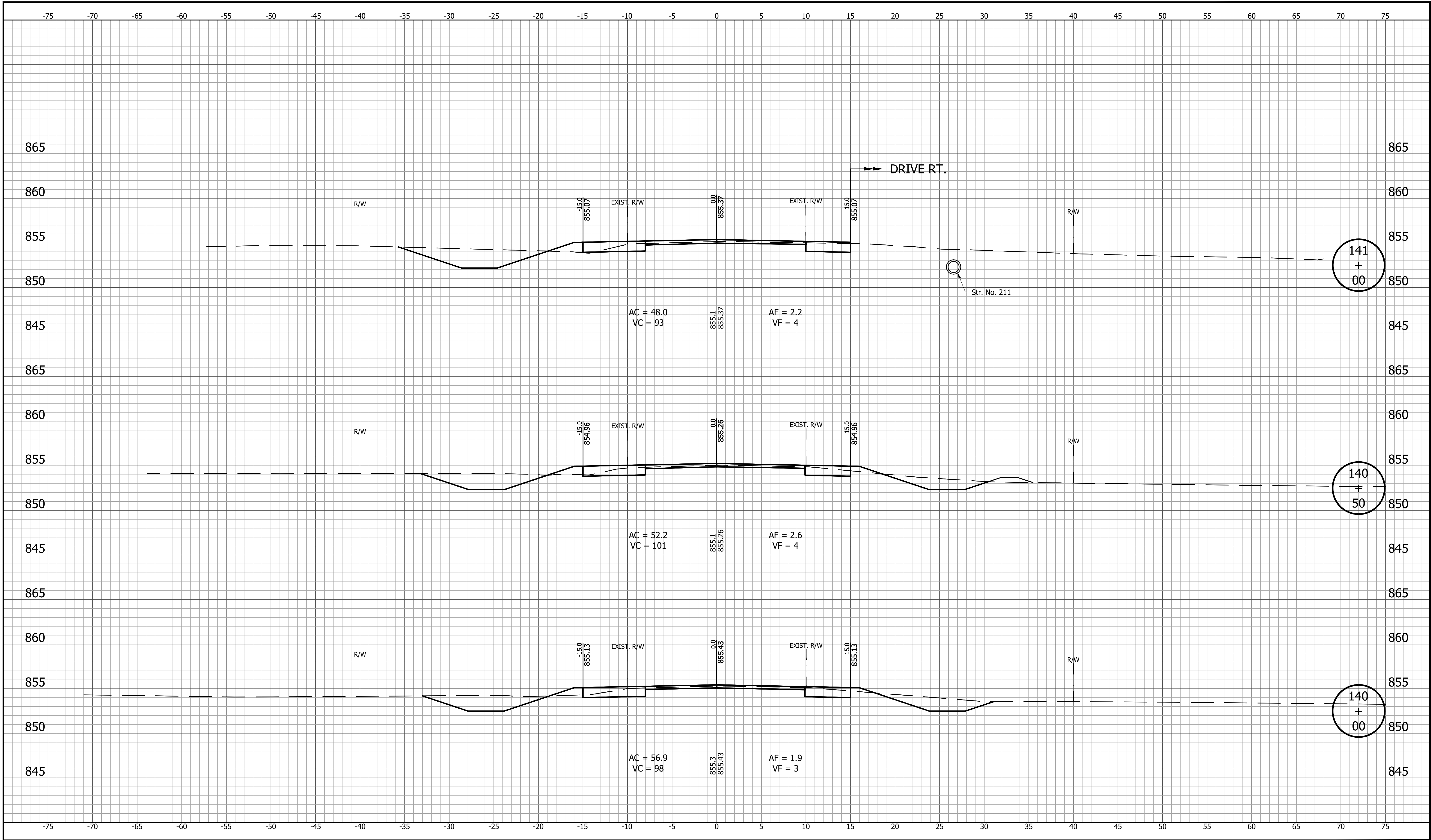
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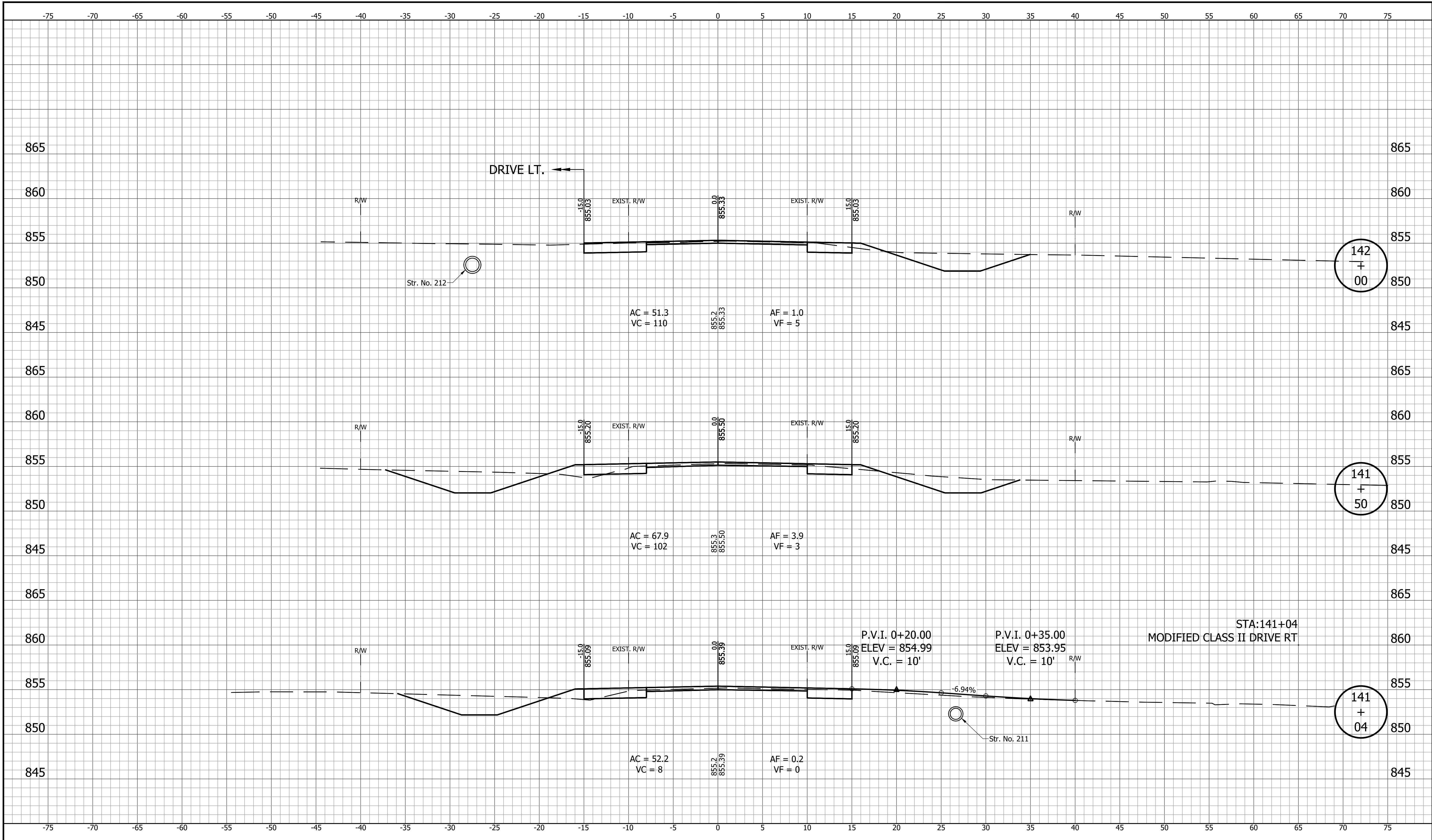
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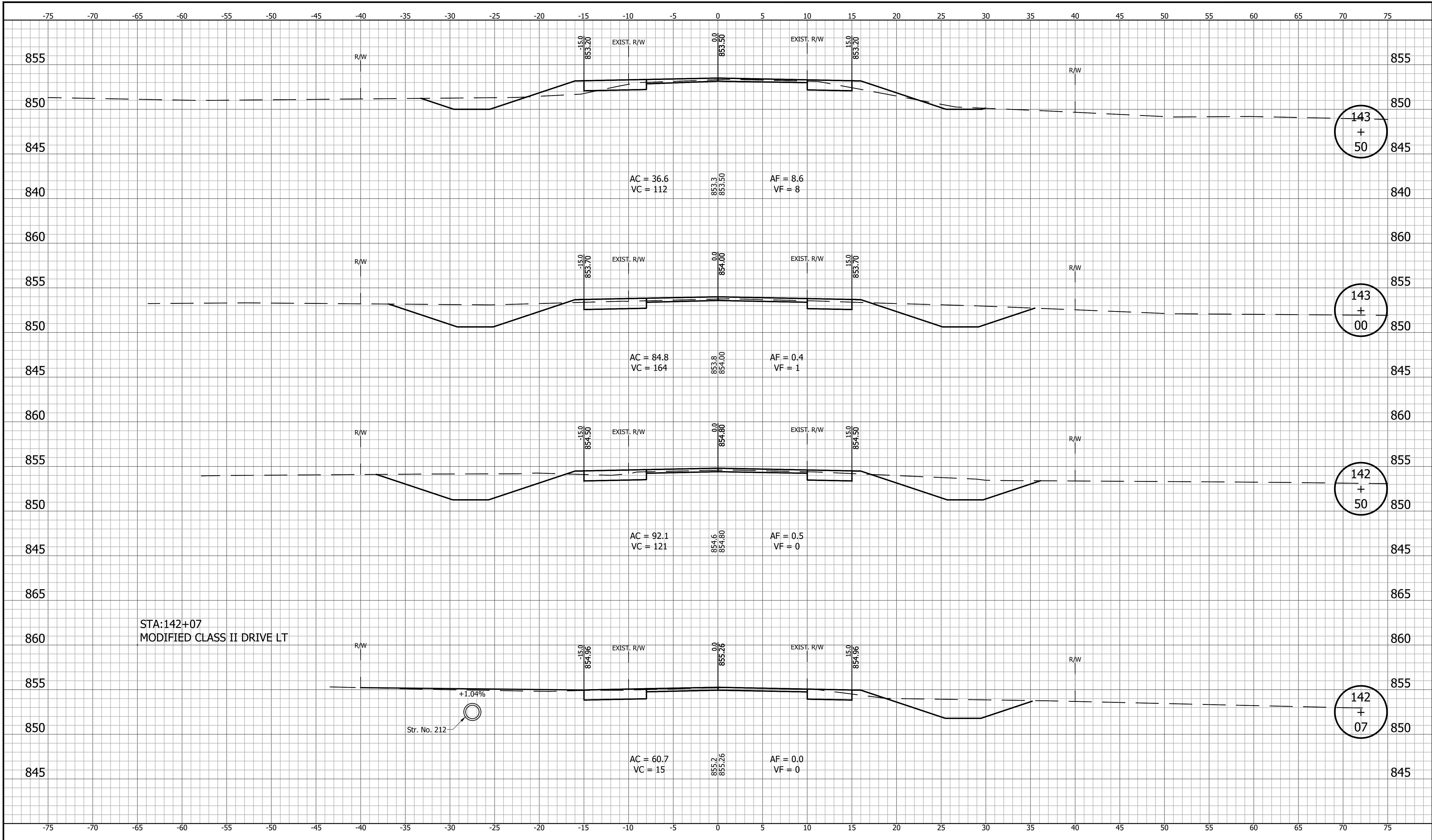
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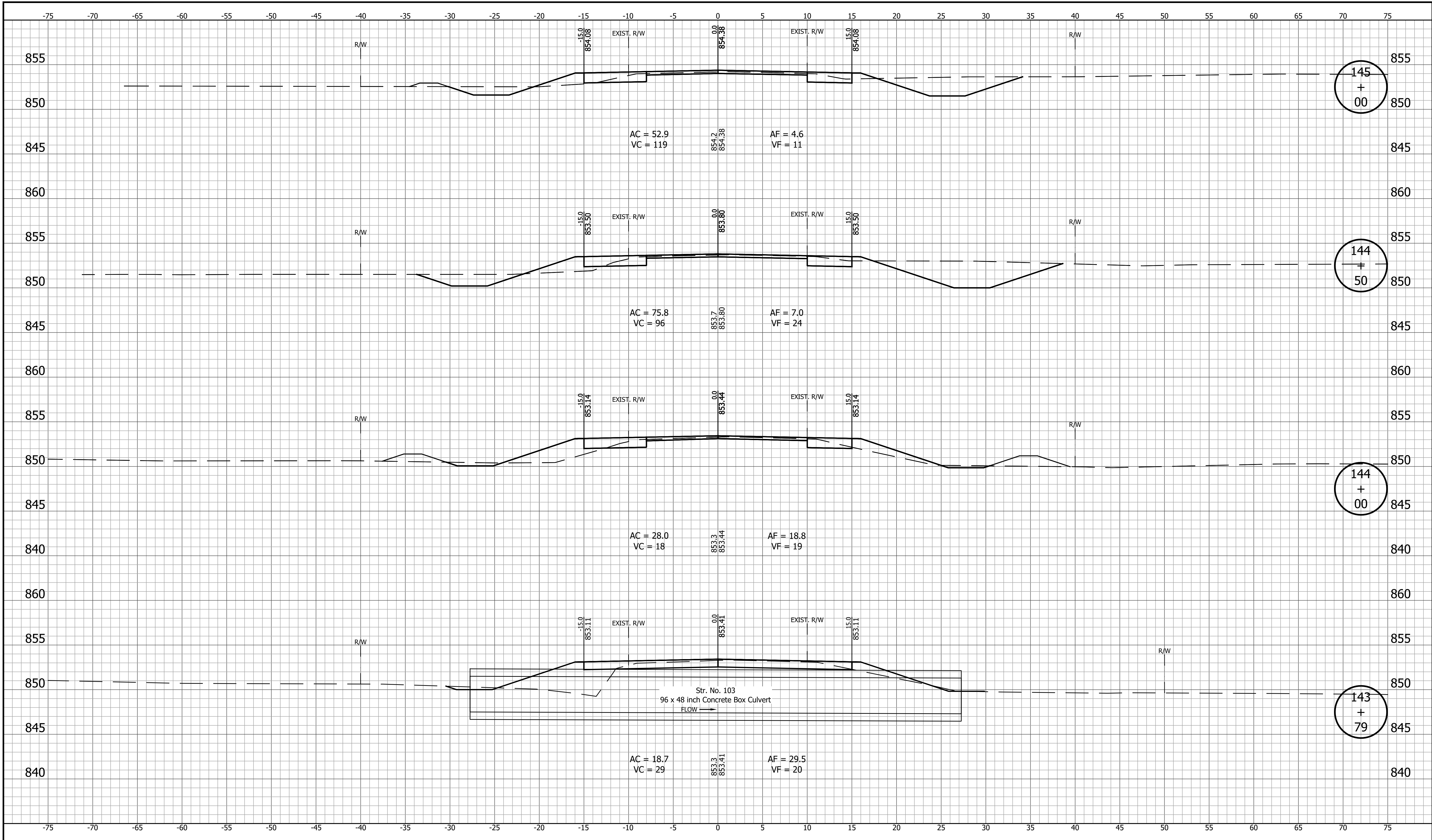
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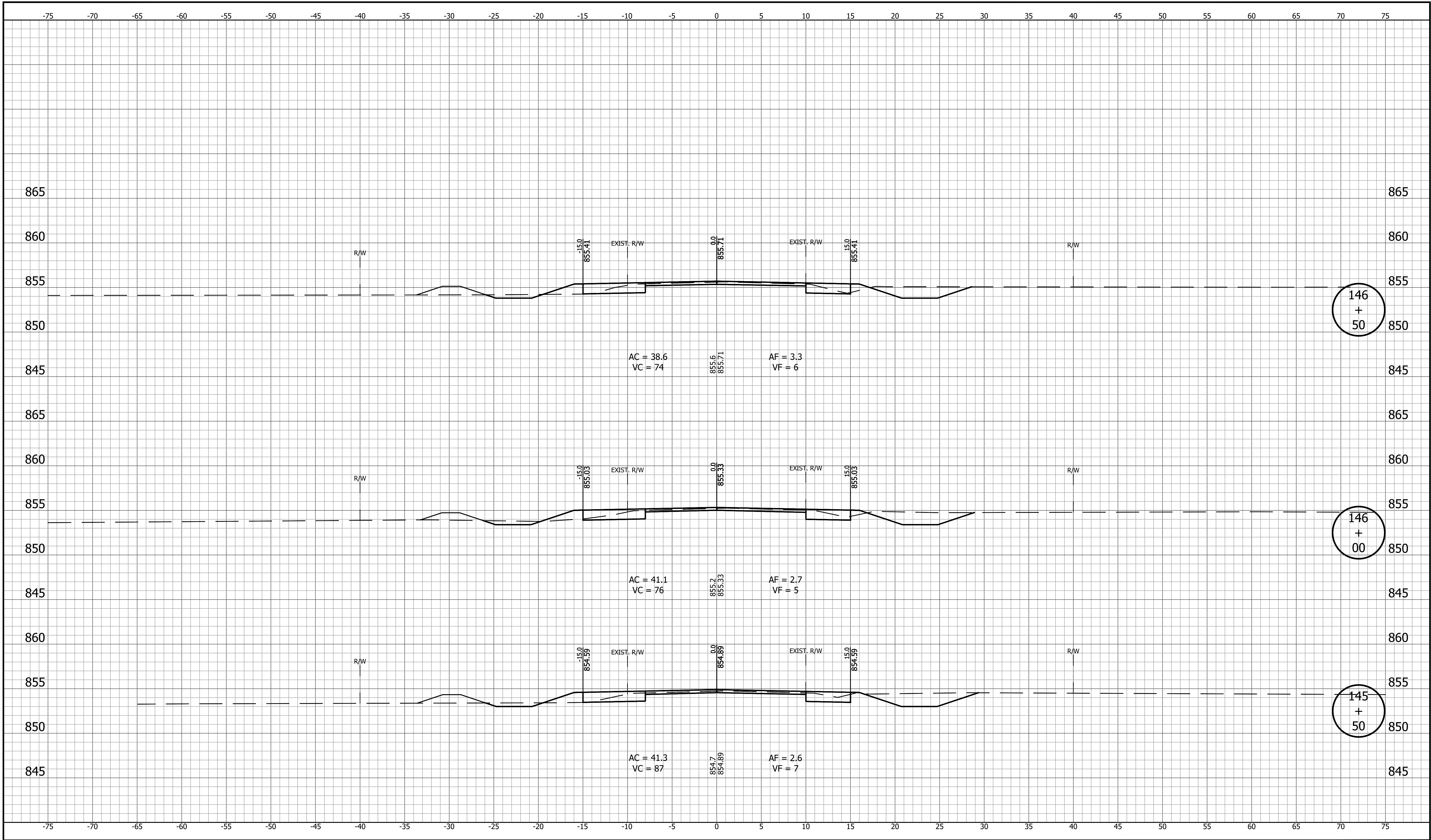
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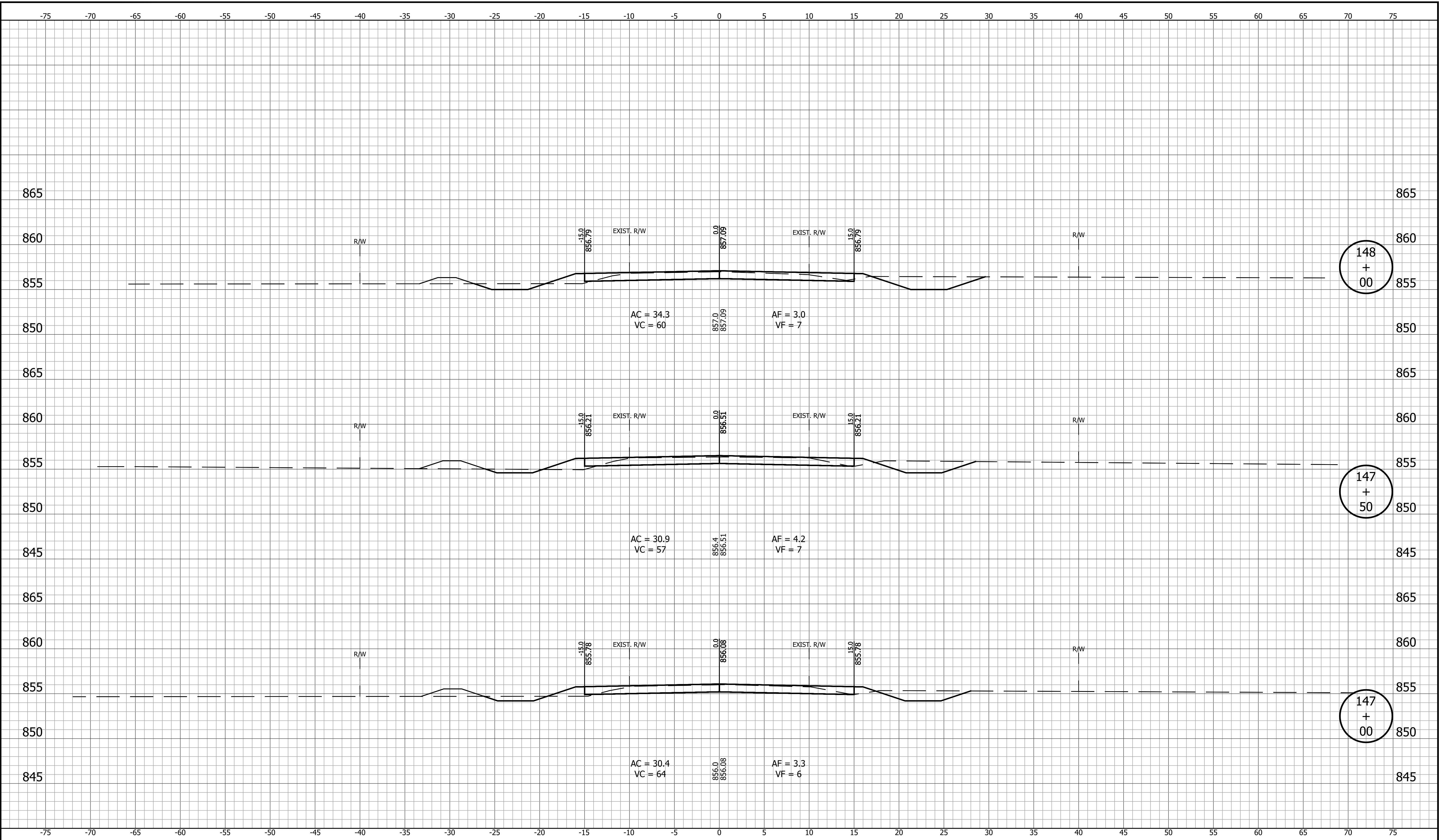
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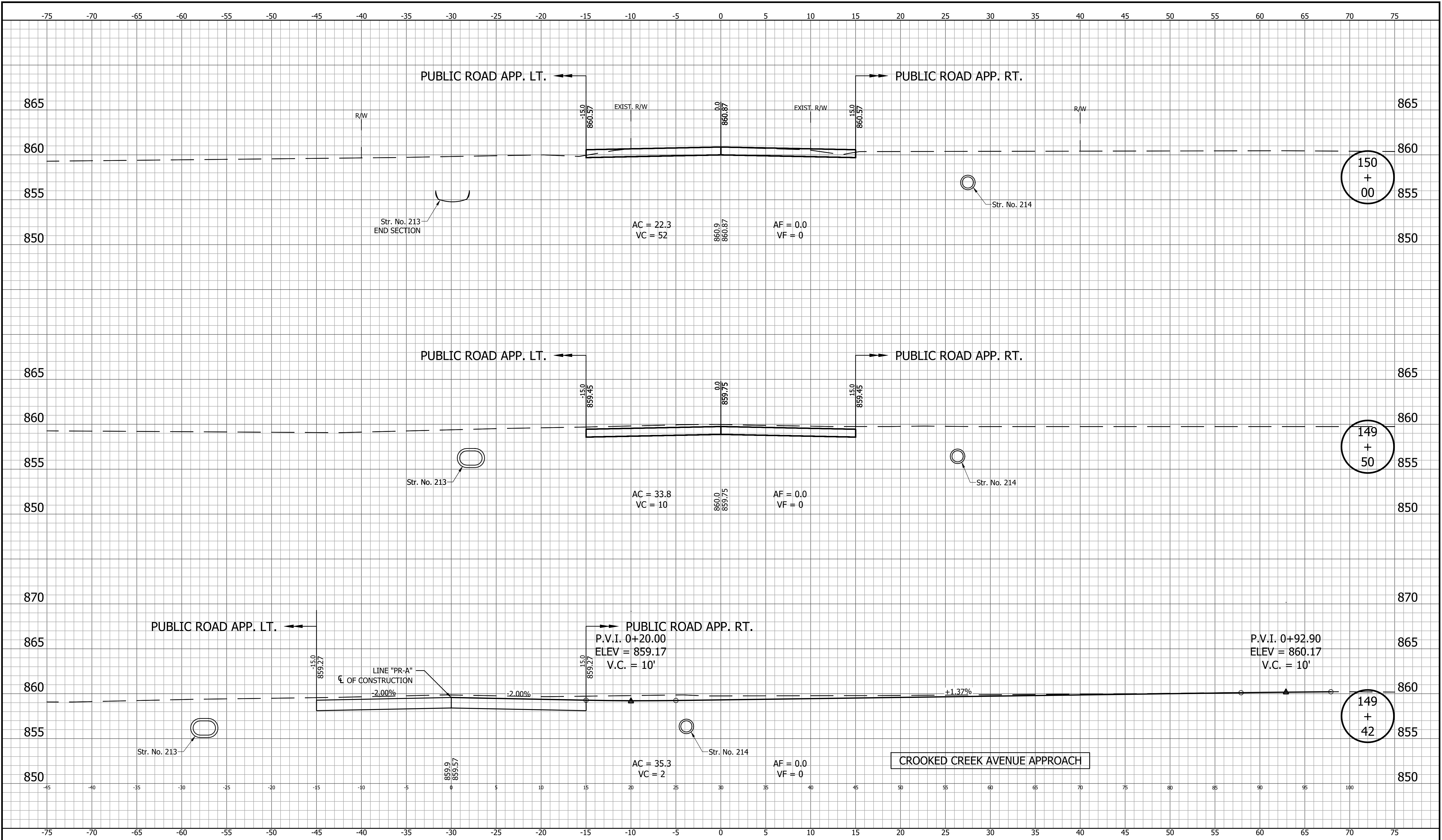
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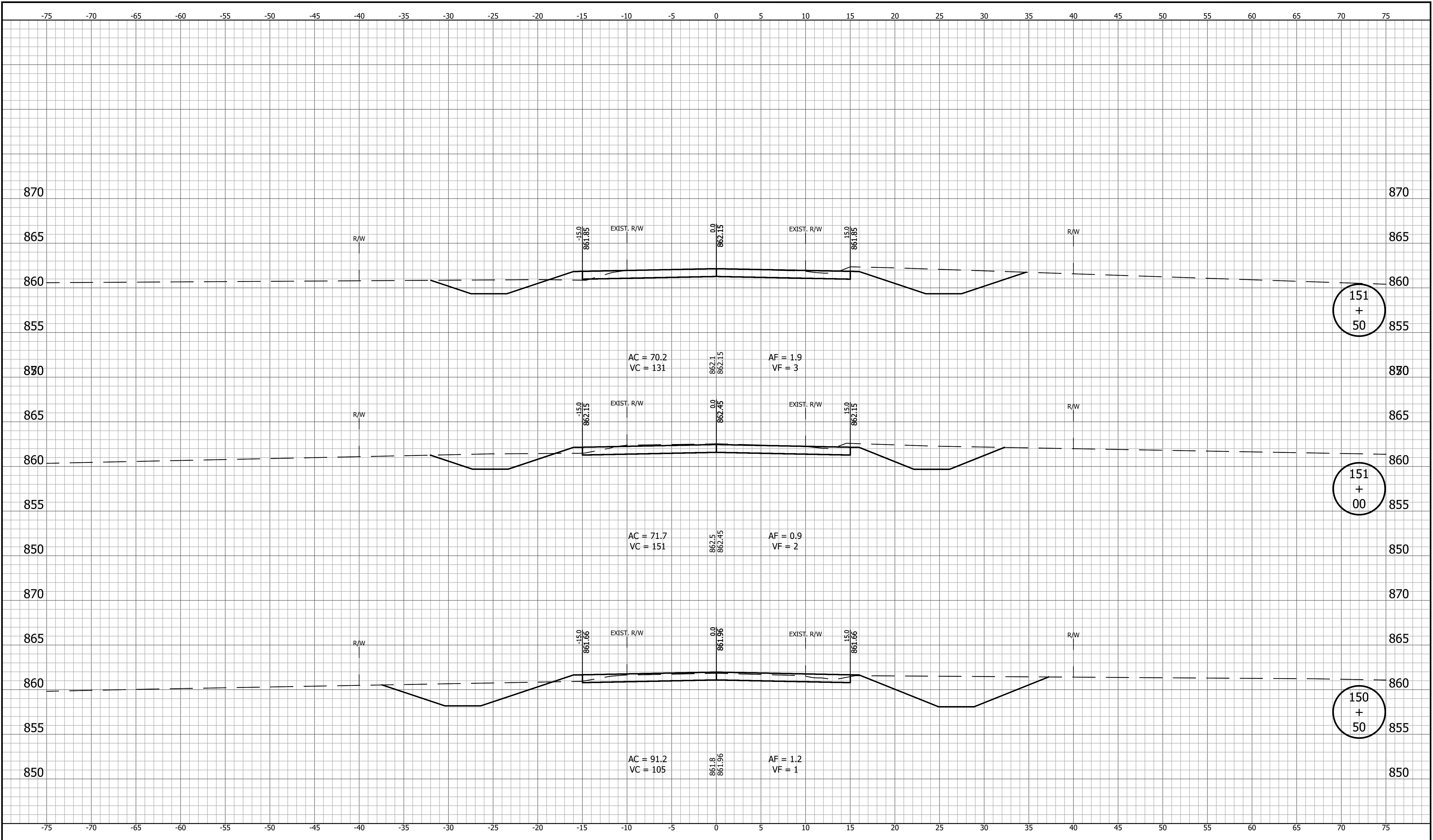
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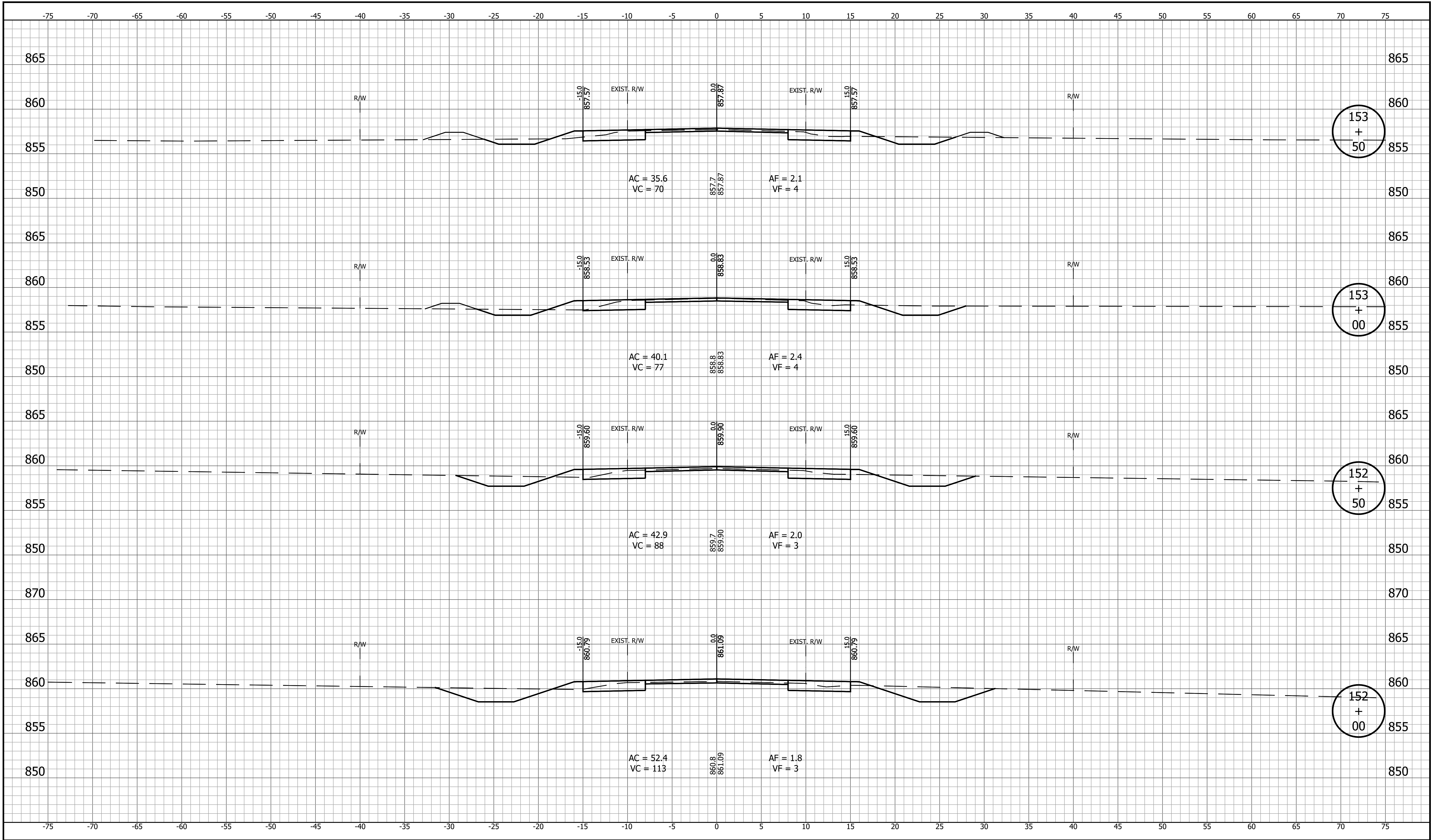
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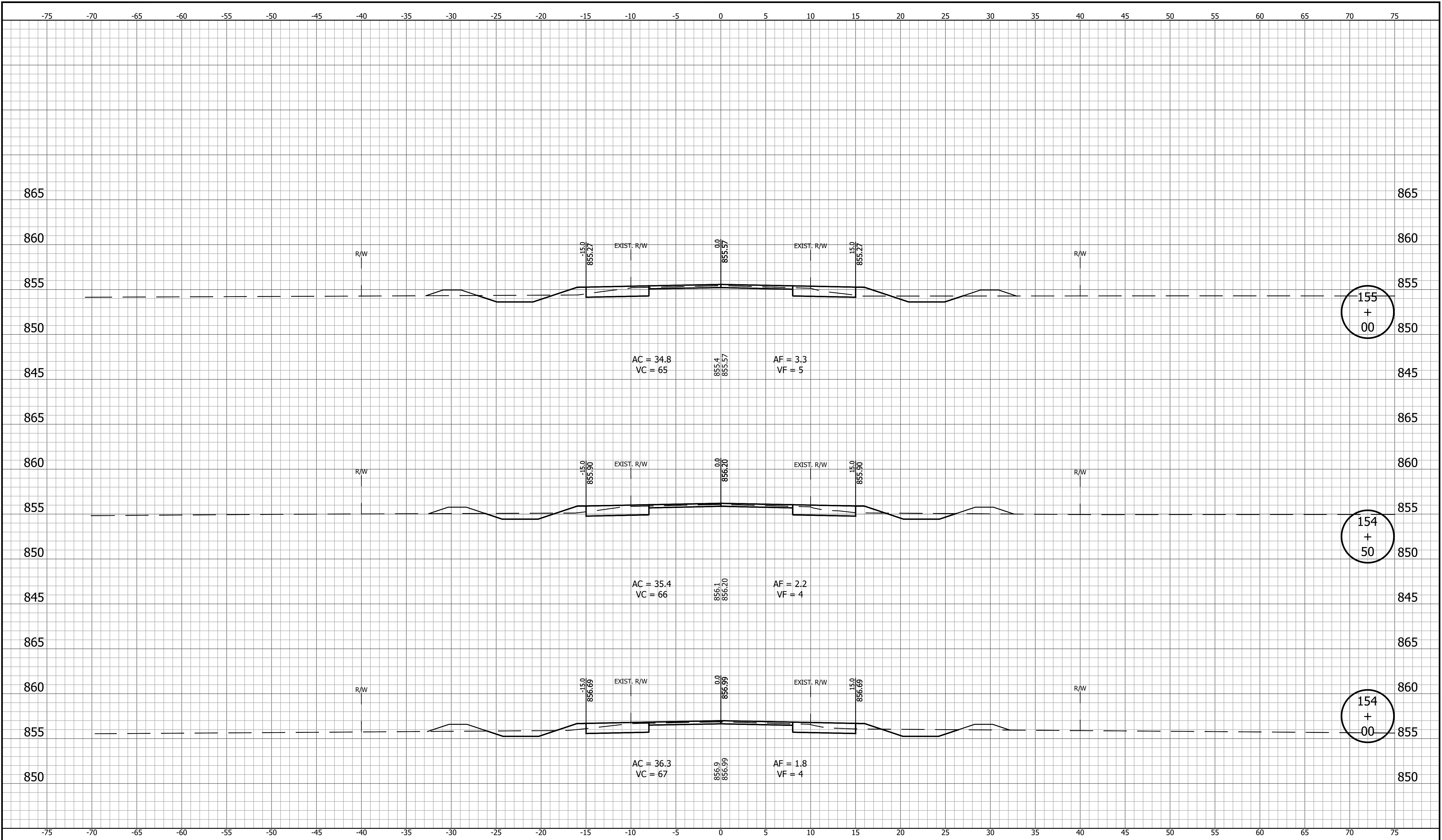
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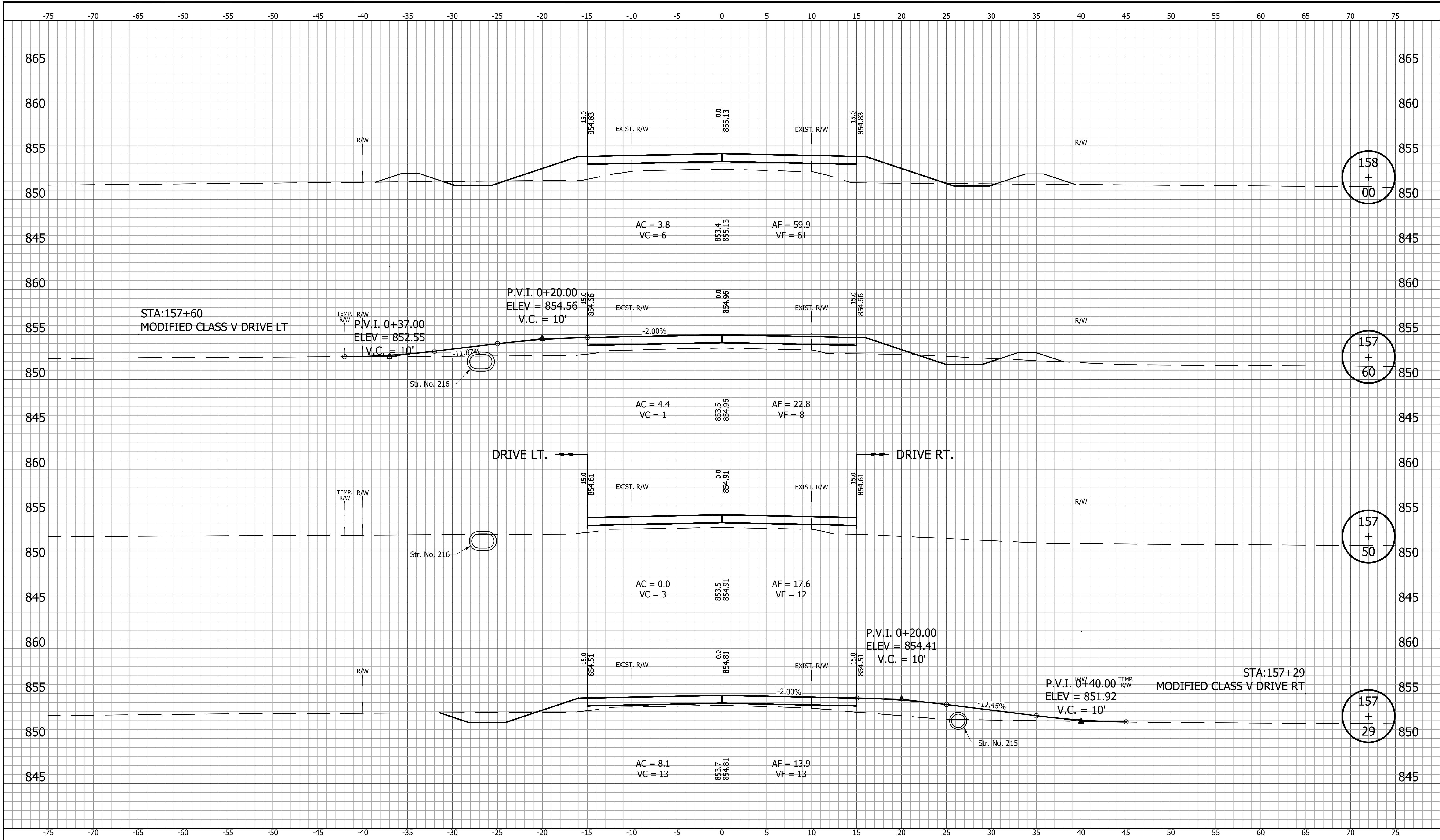
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						R-43619		2003031	

PRINT DATE: 1/9/25
PLOT SCALE: 1" = 5'
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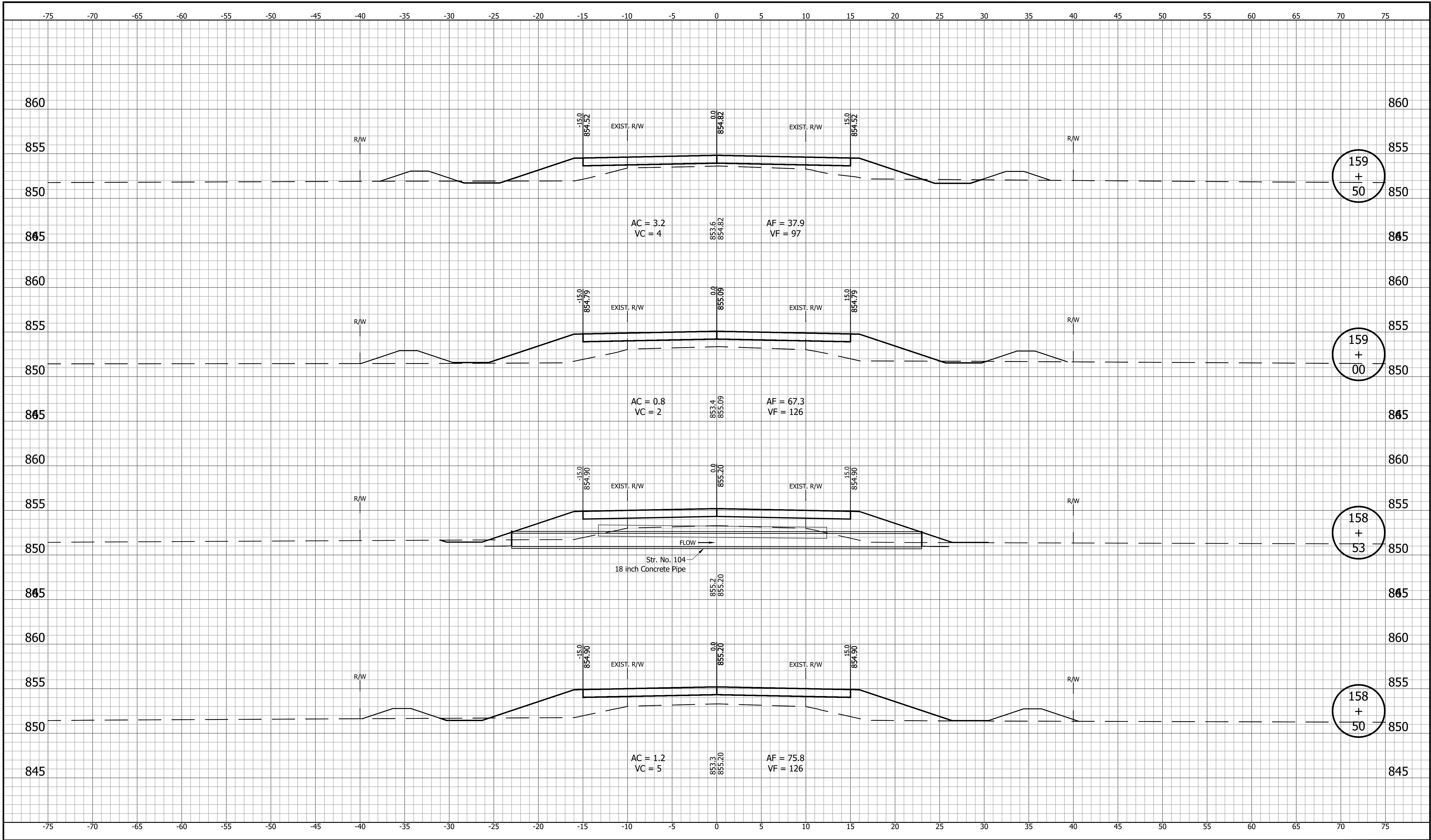
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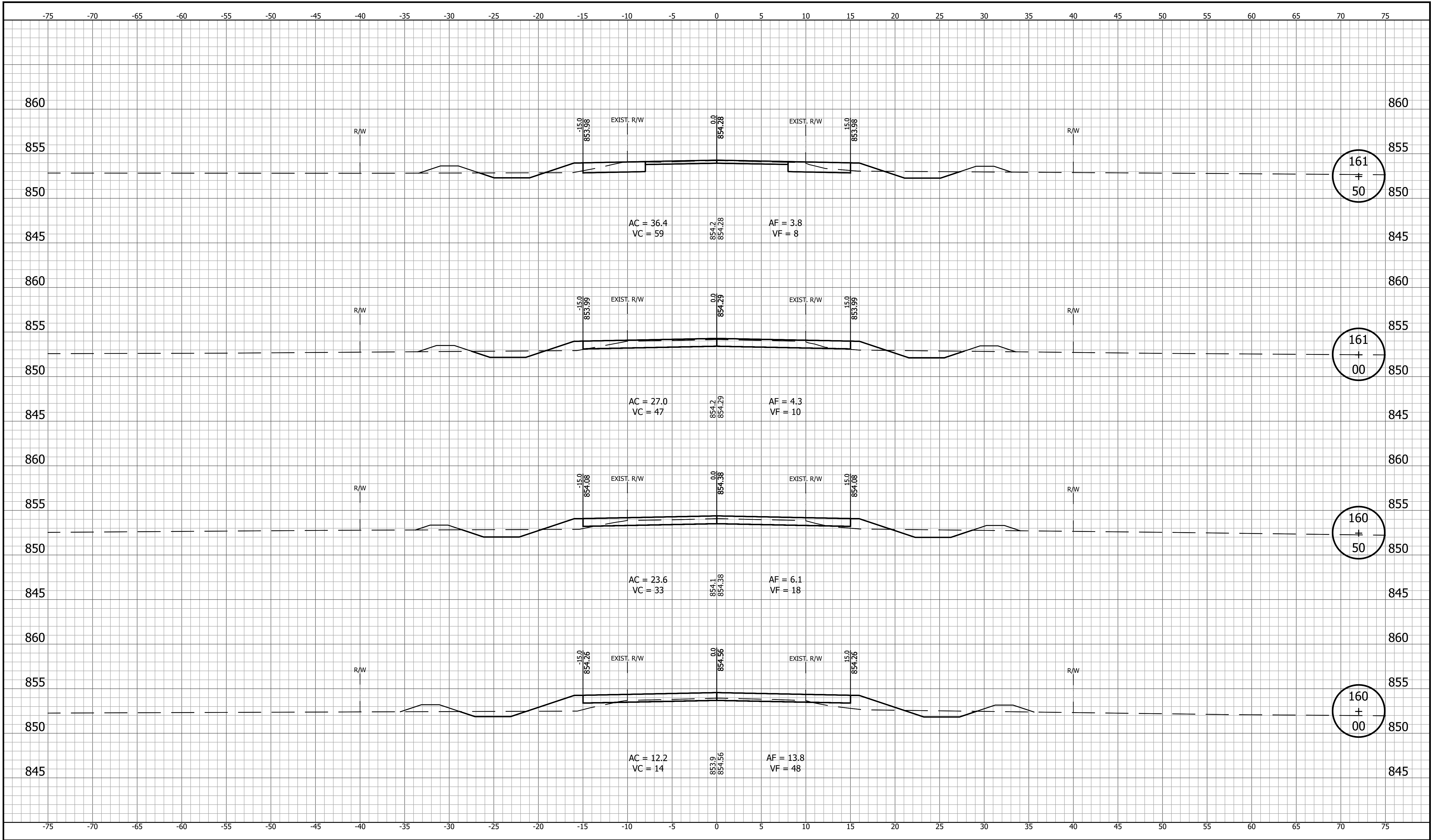
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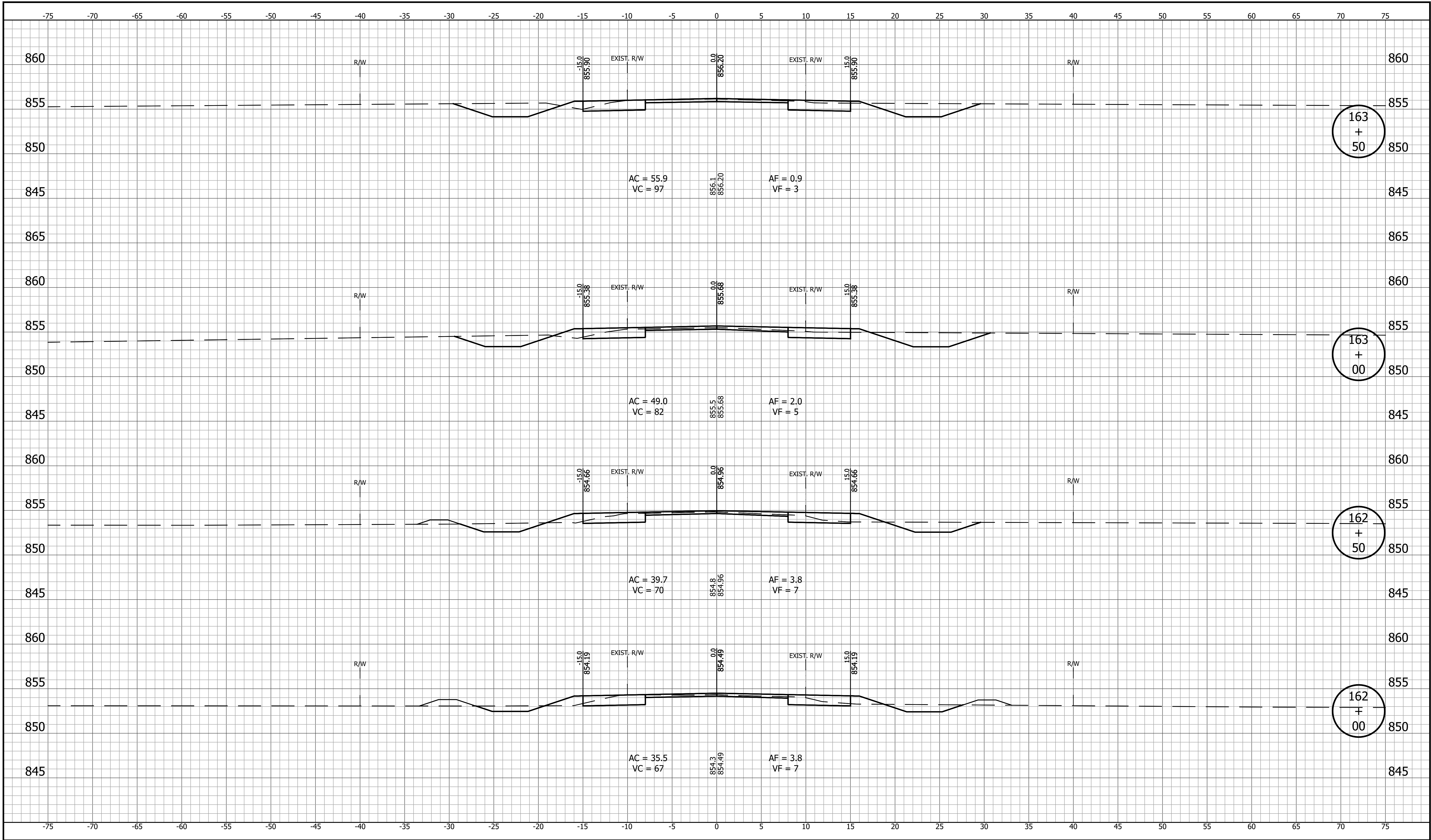
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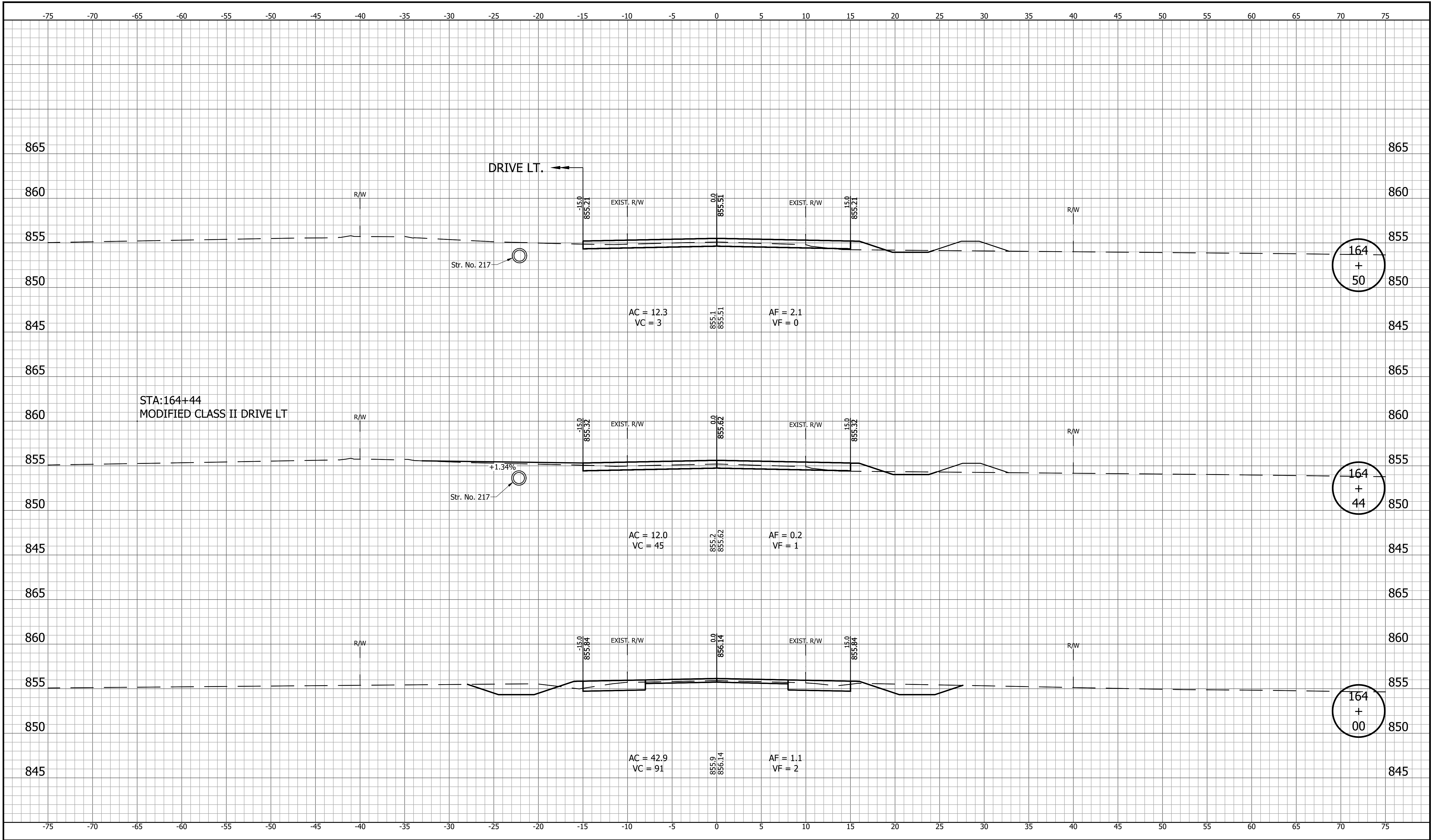
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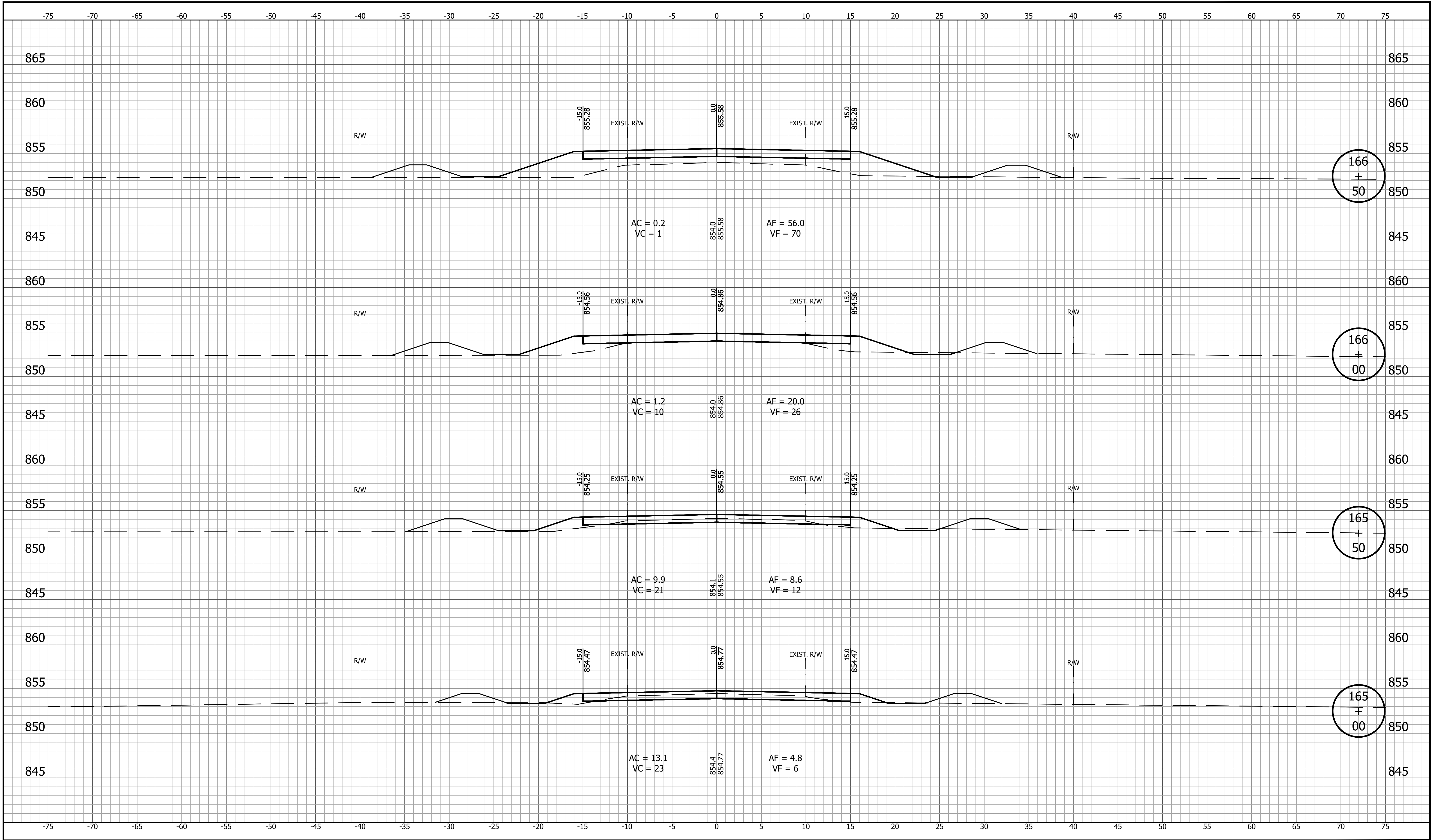
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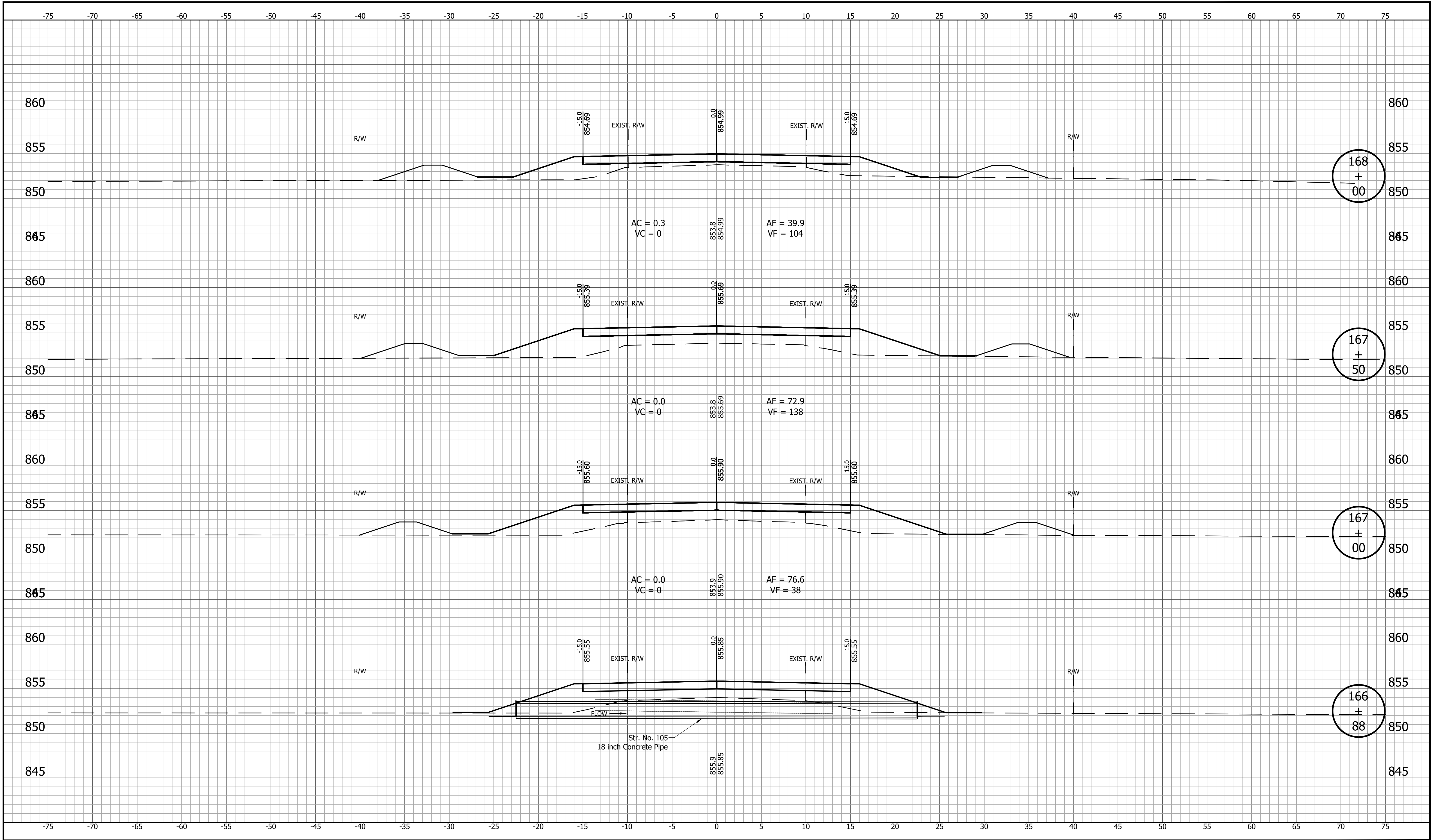
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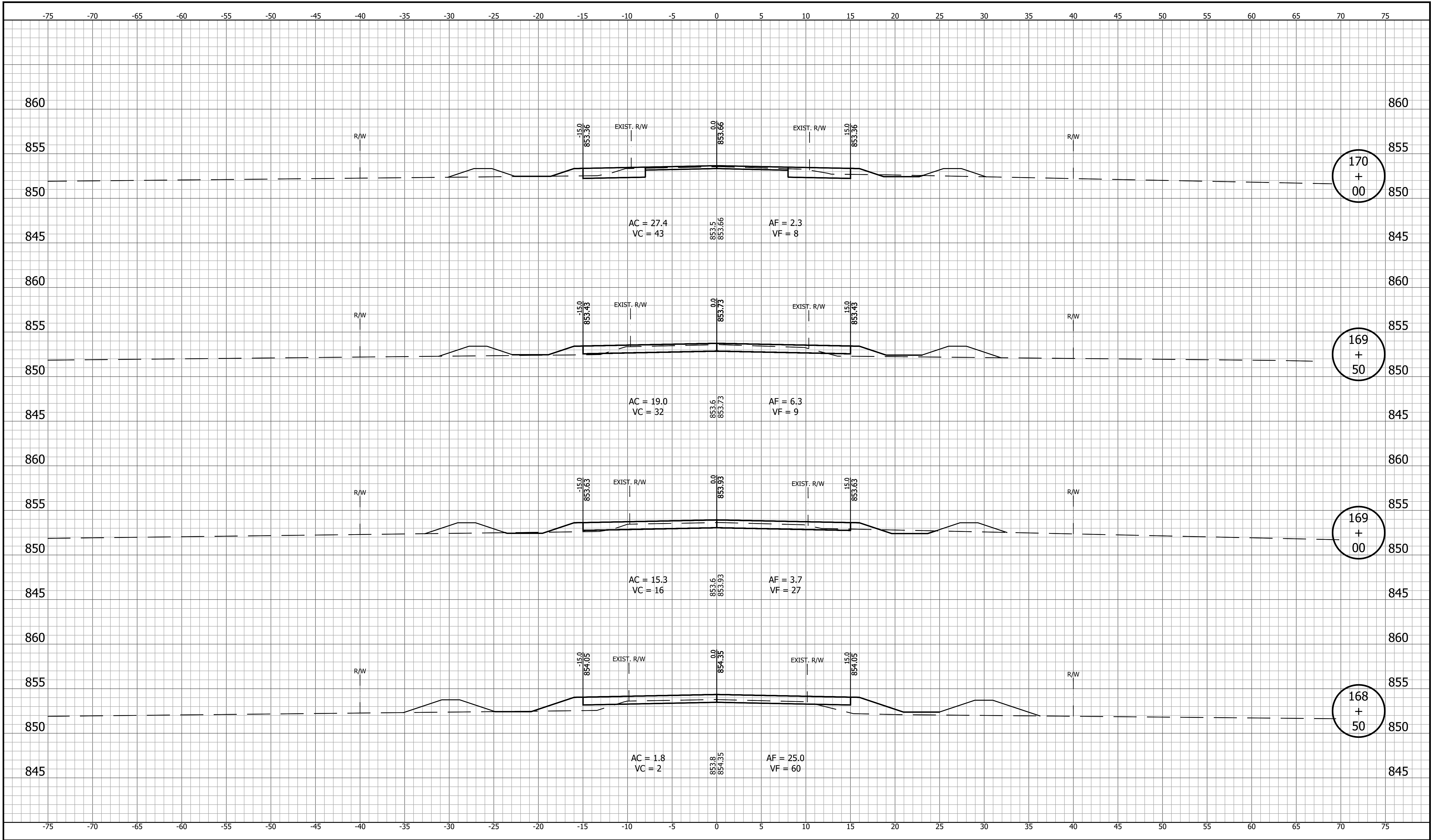
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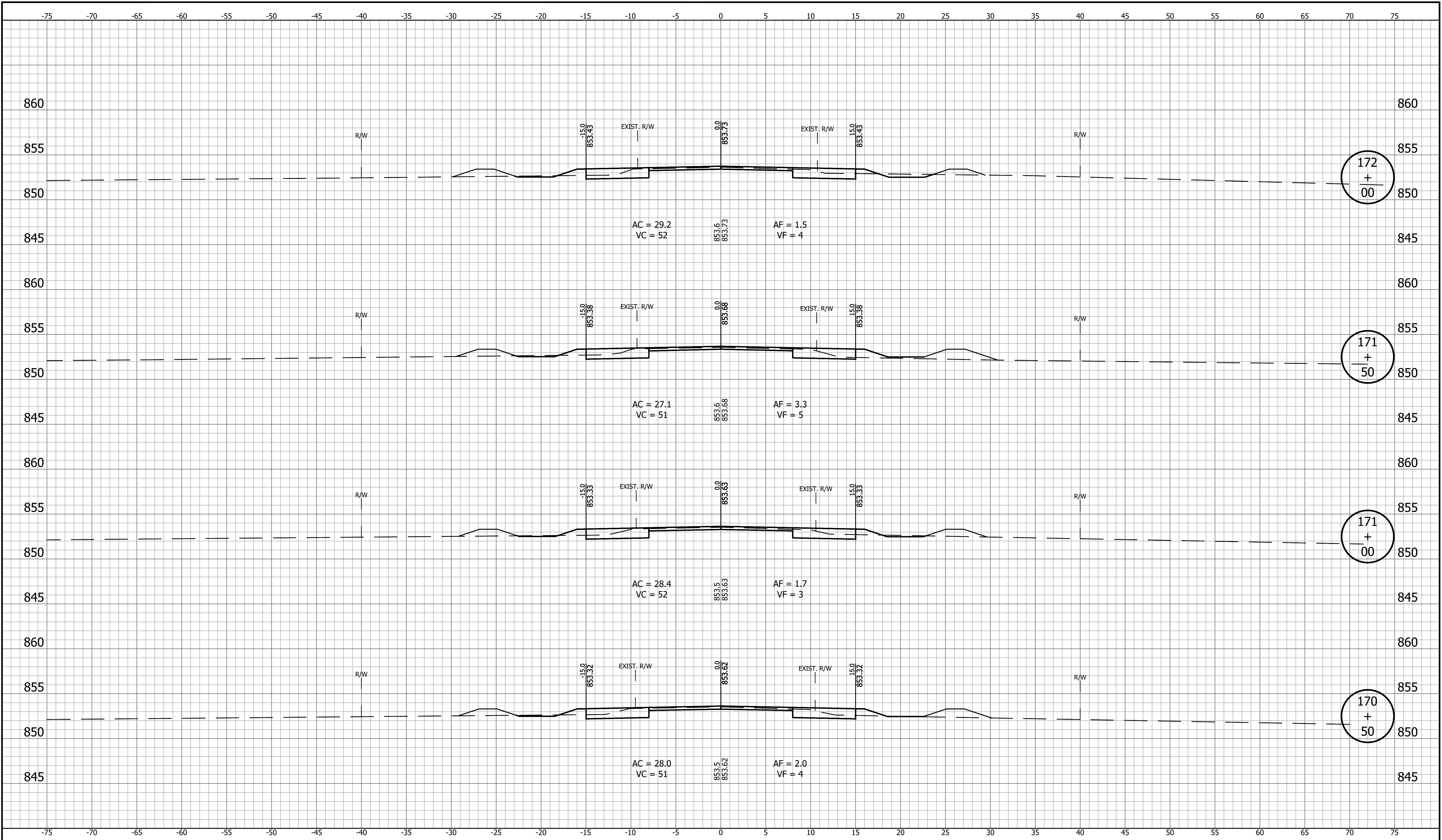
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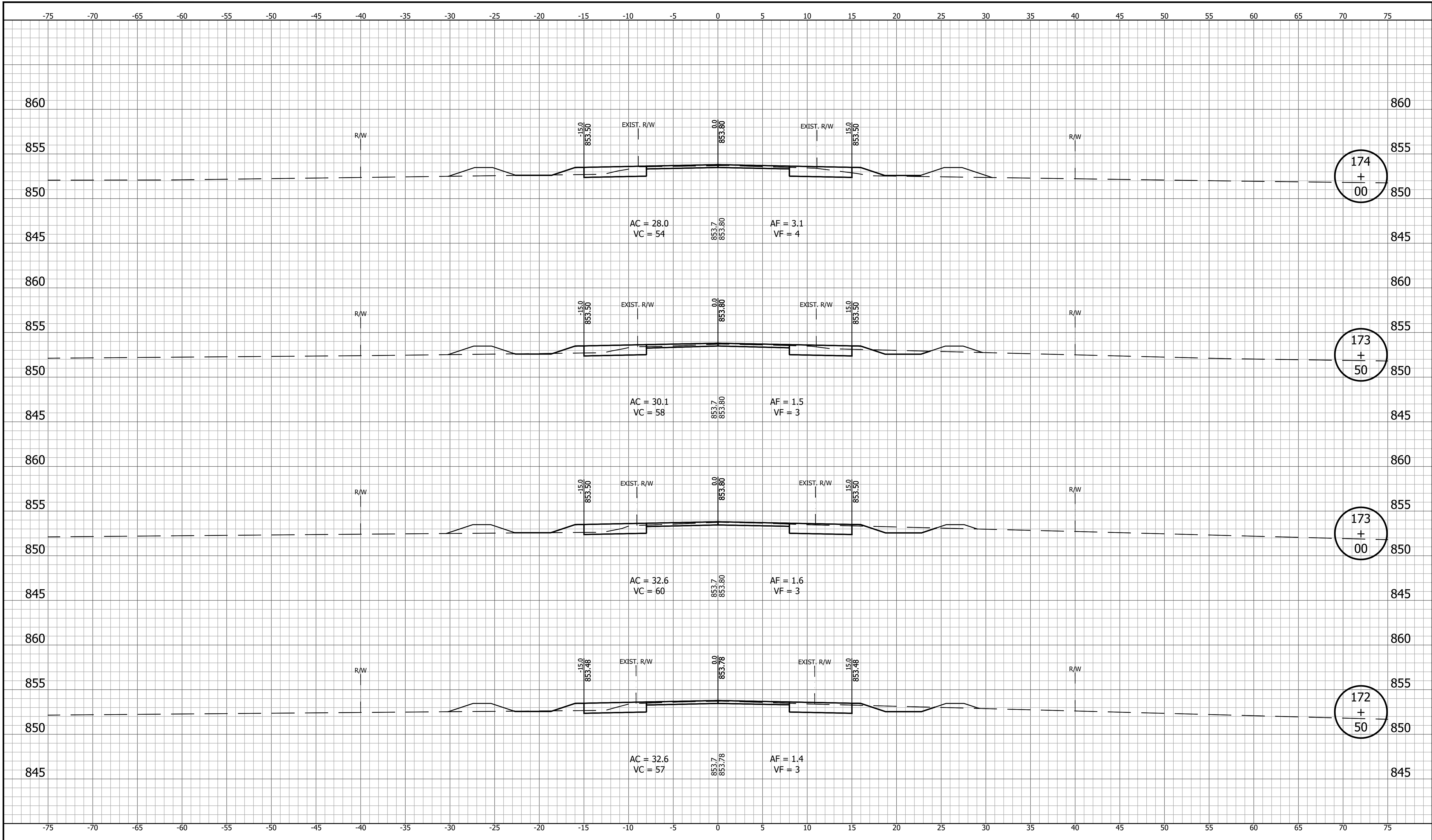
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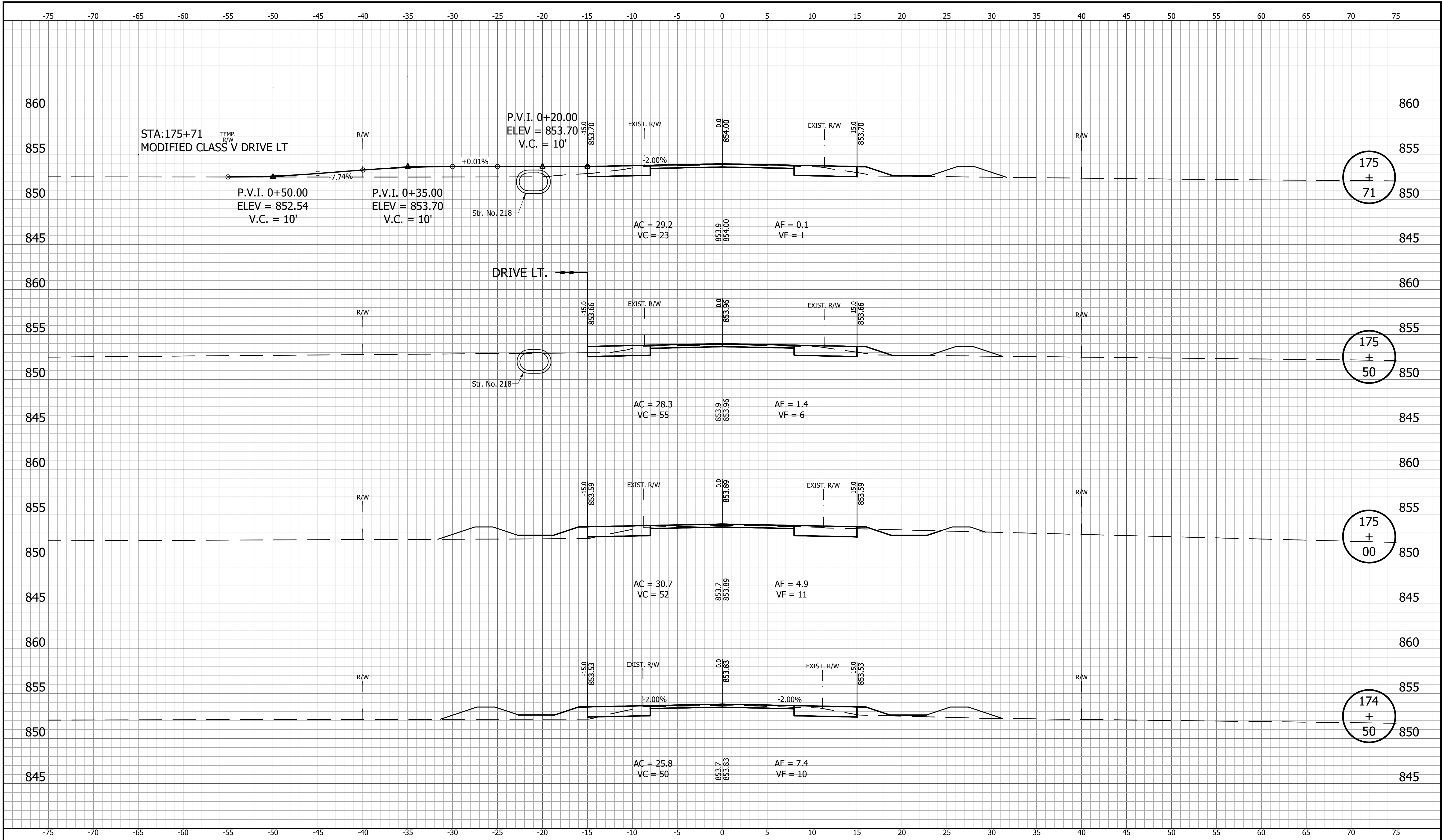
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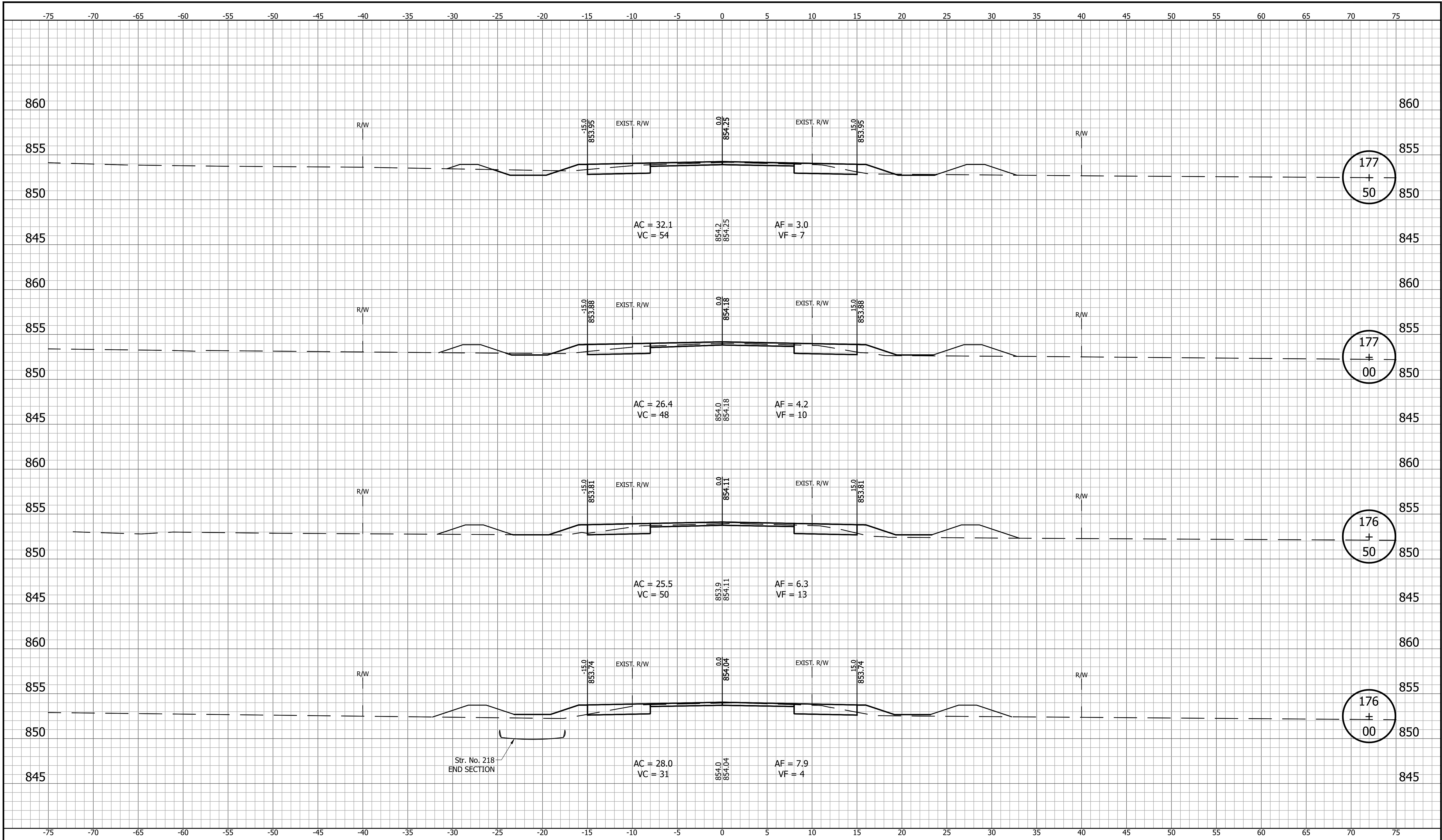
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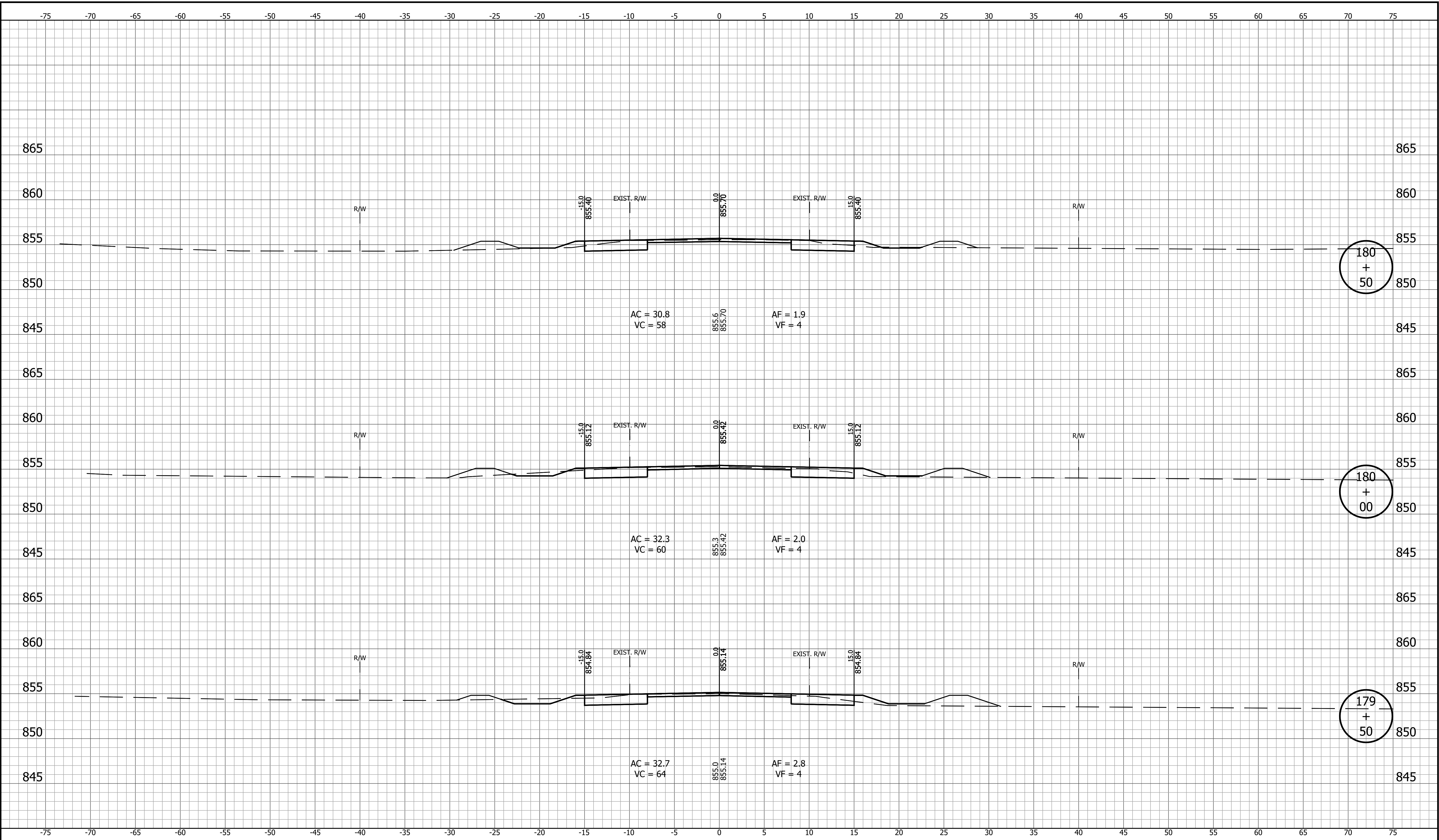
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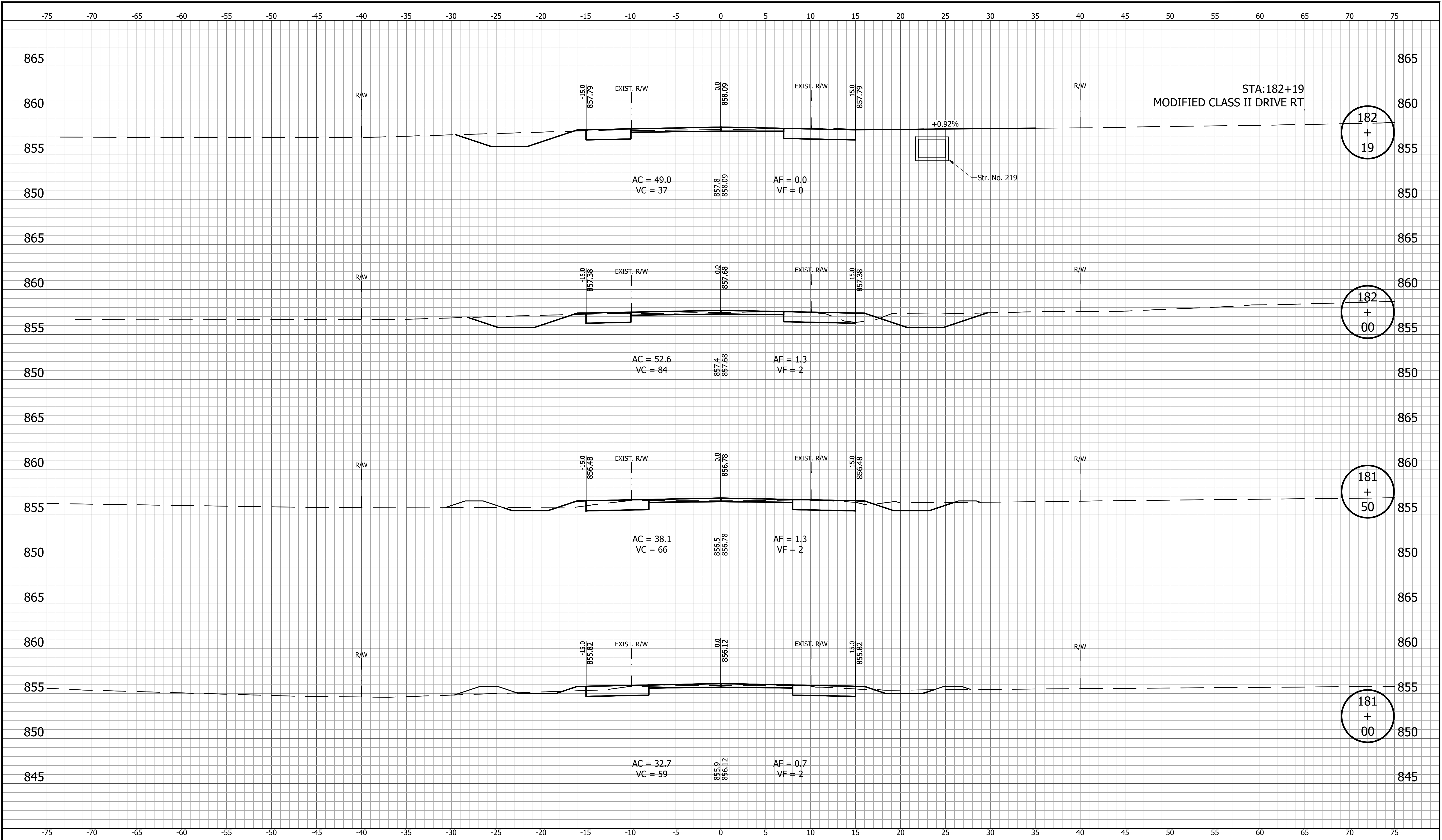
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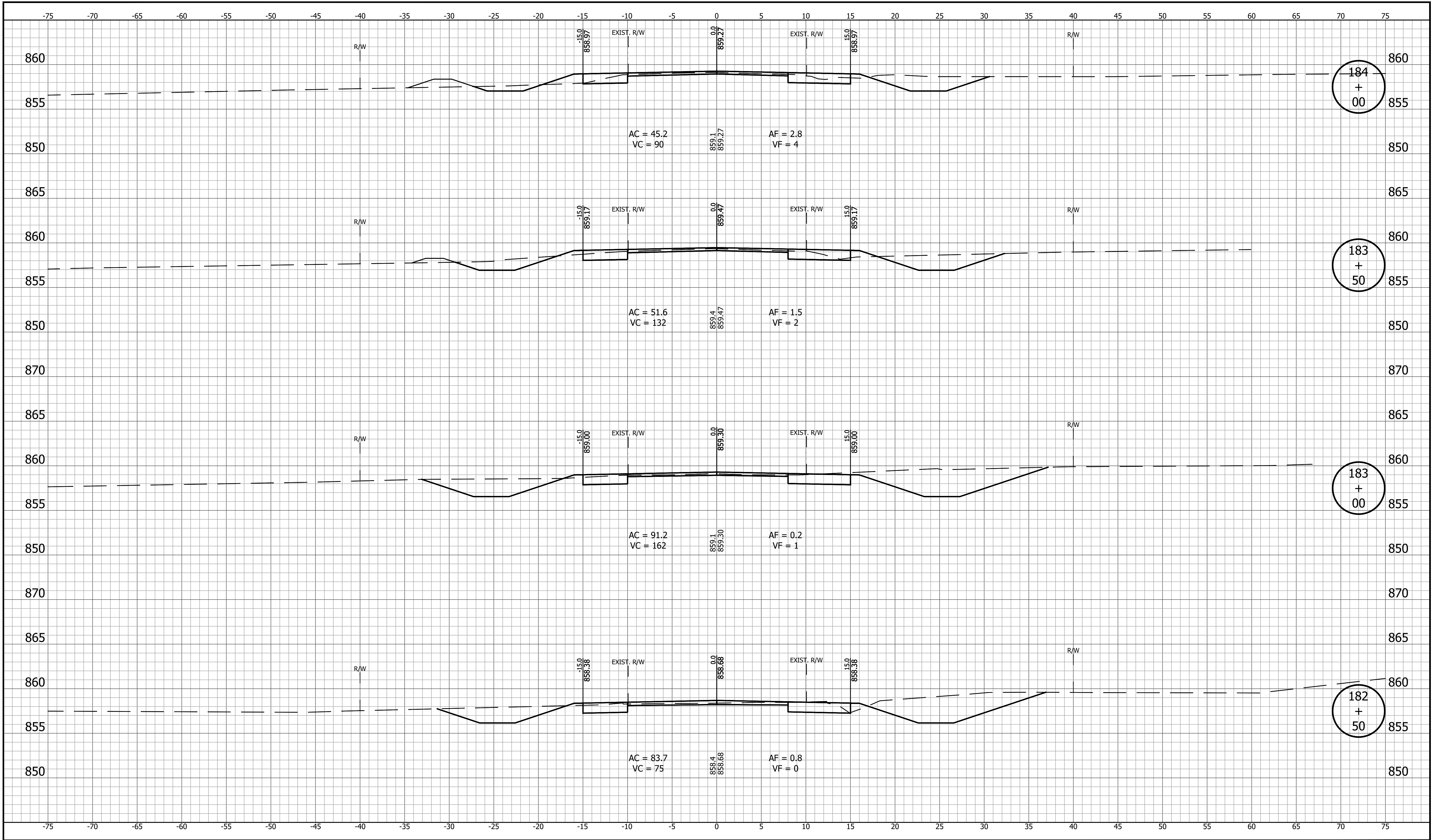
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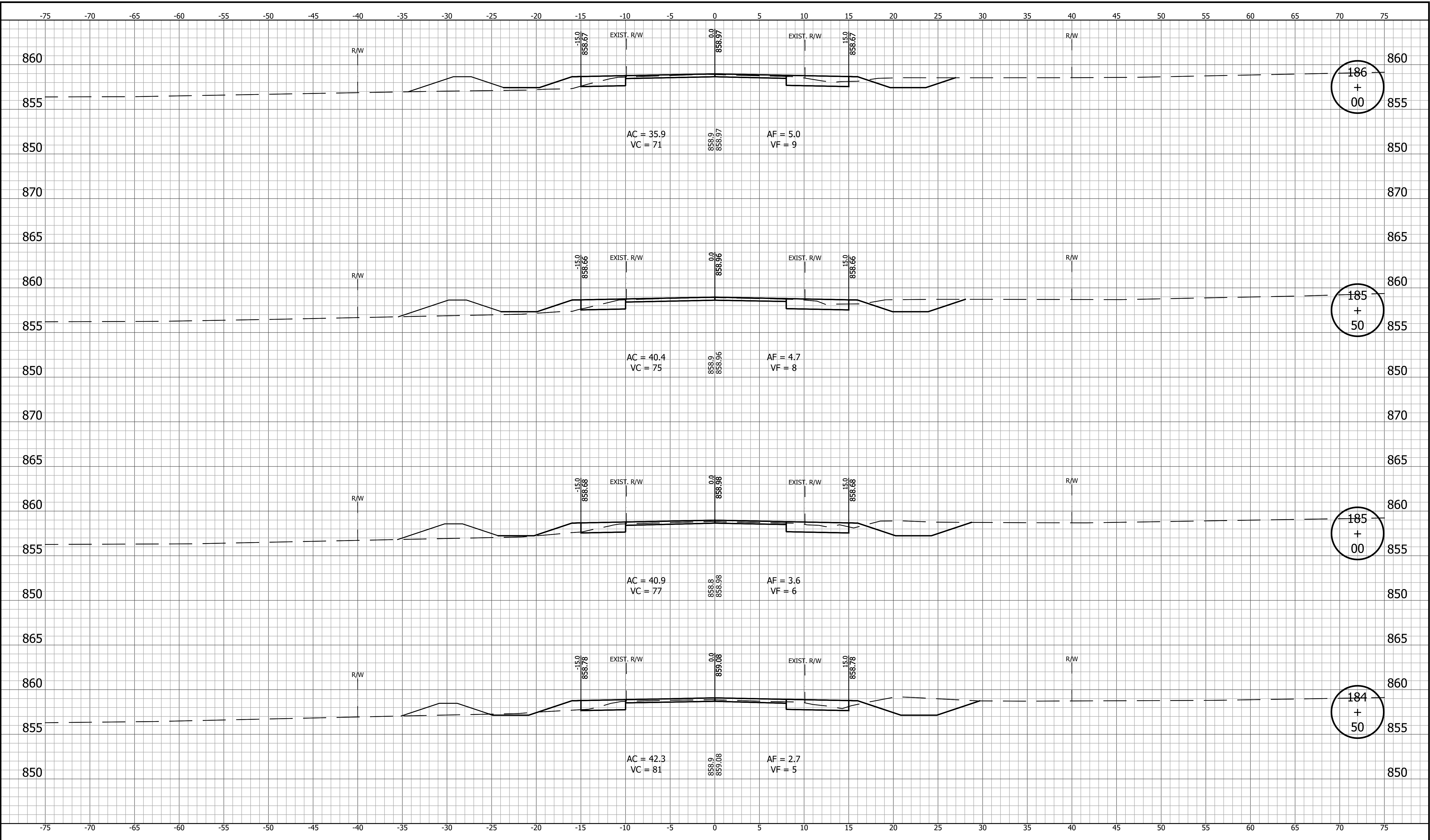
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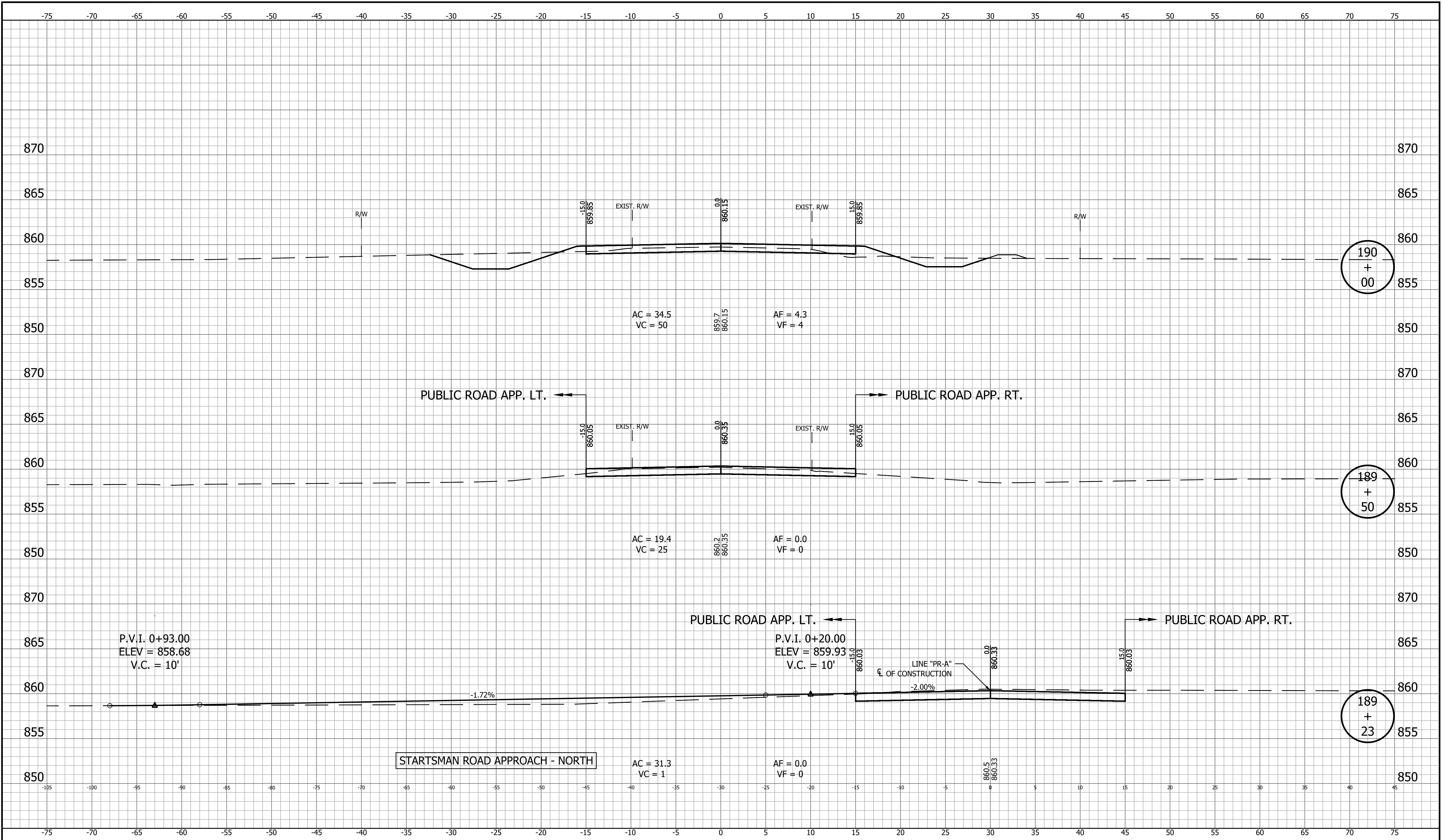
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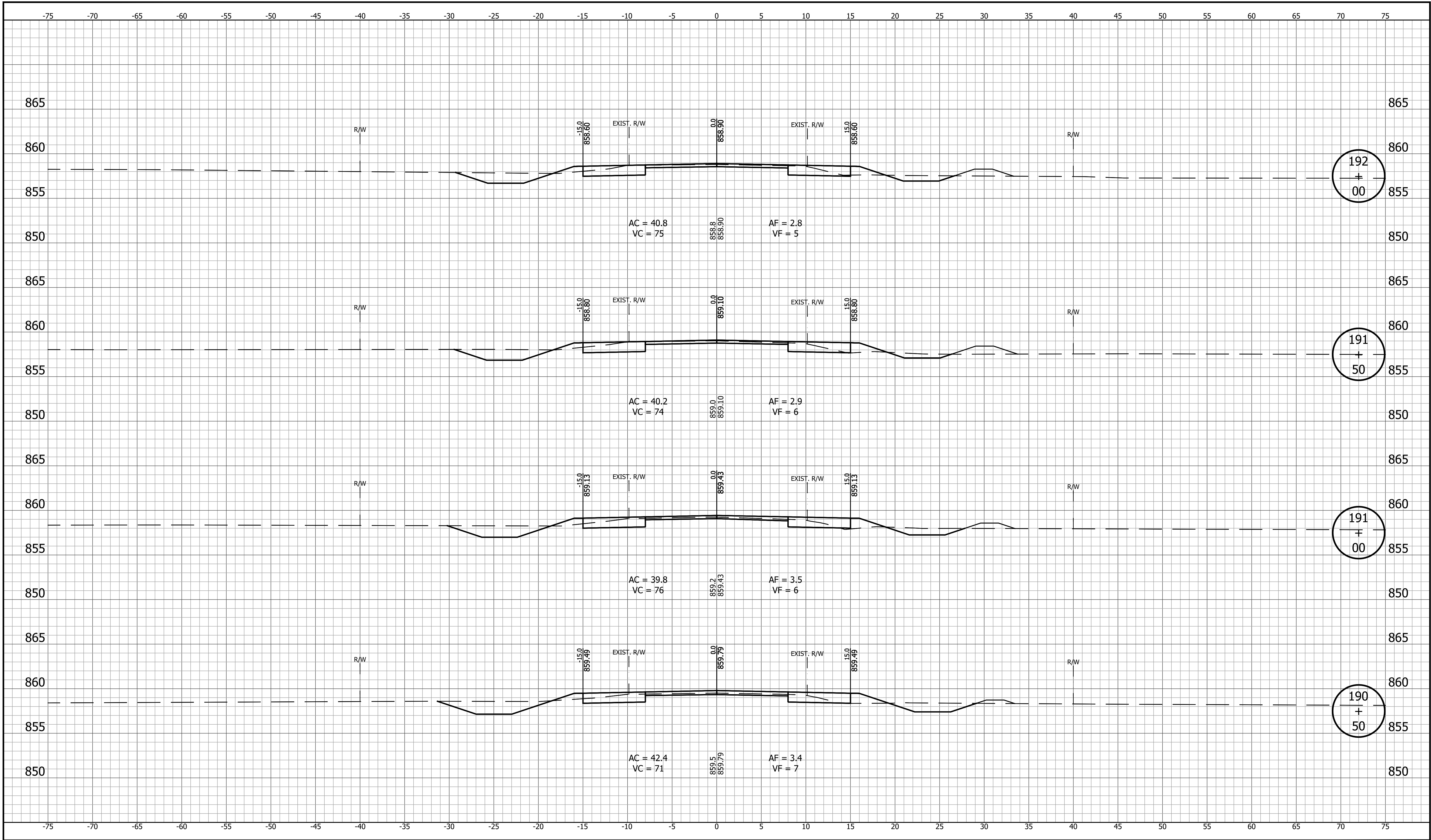
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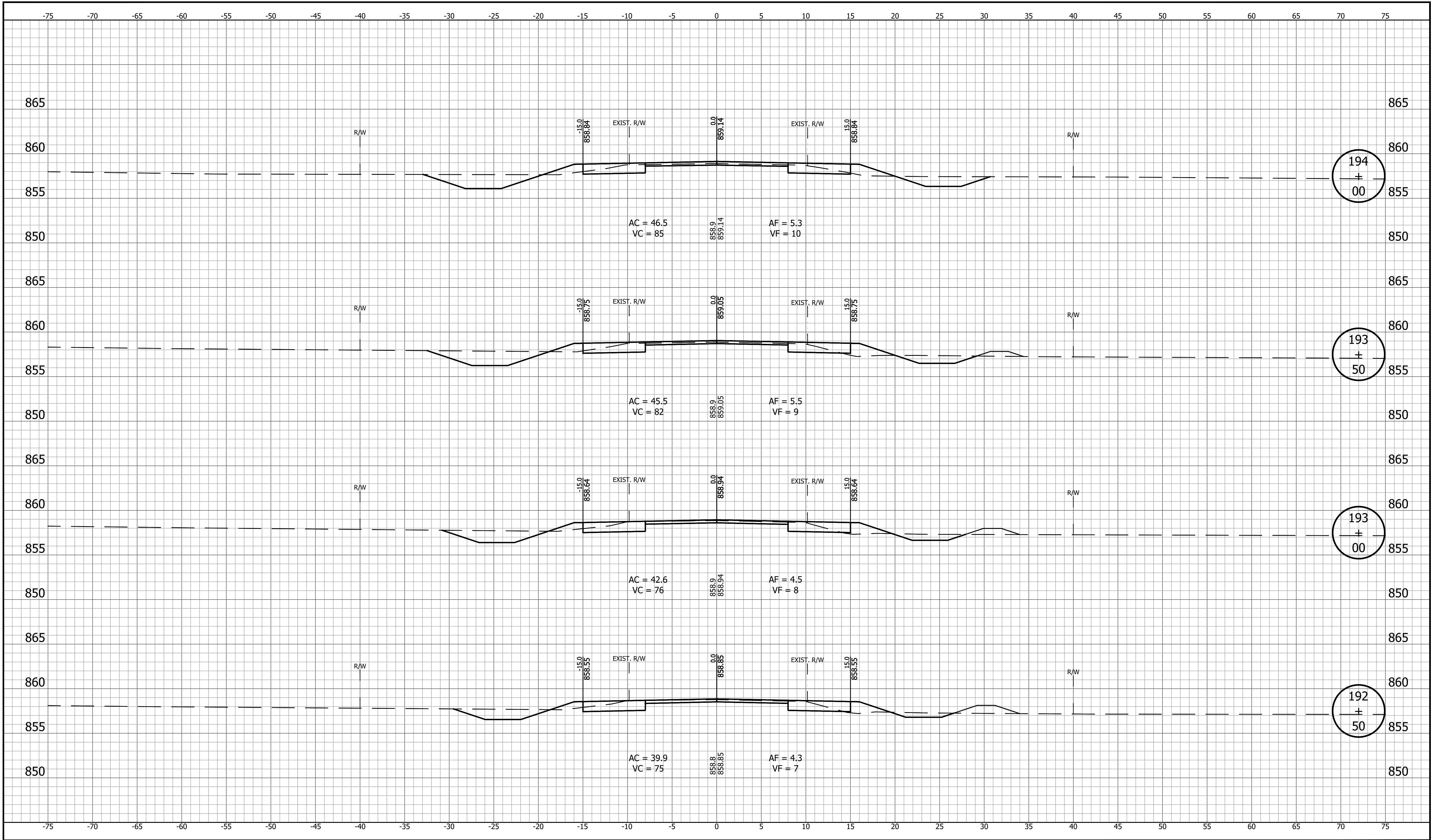
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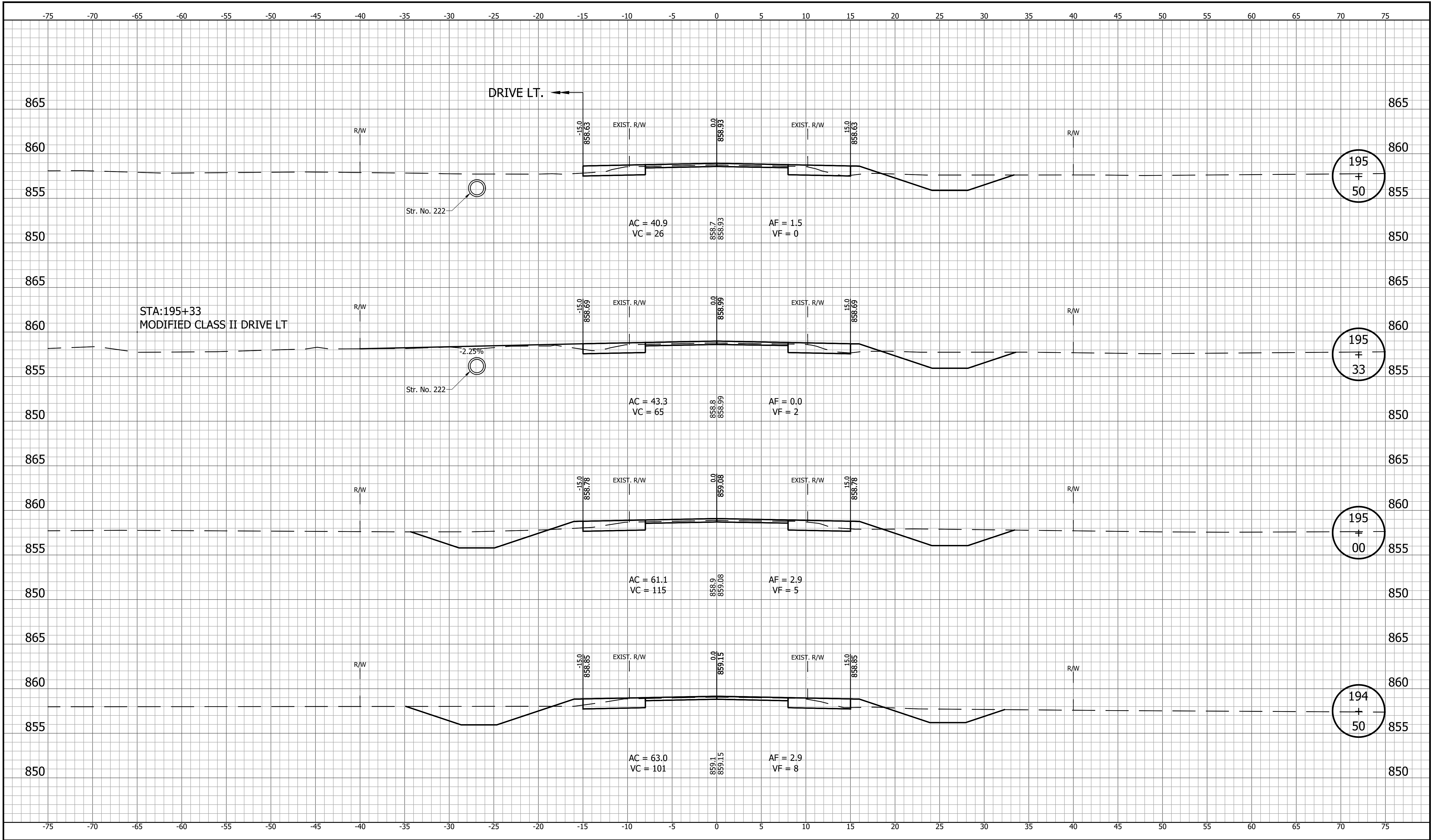
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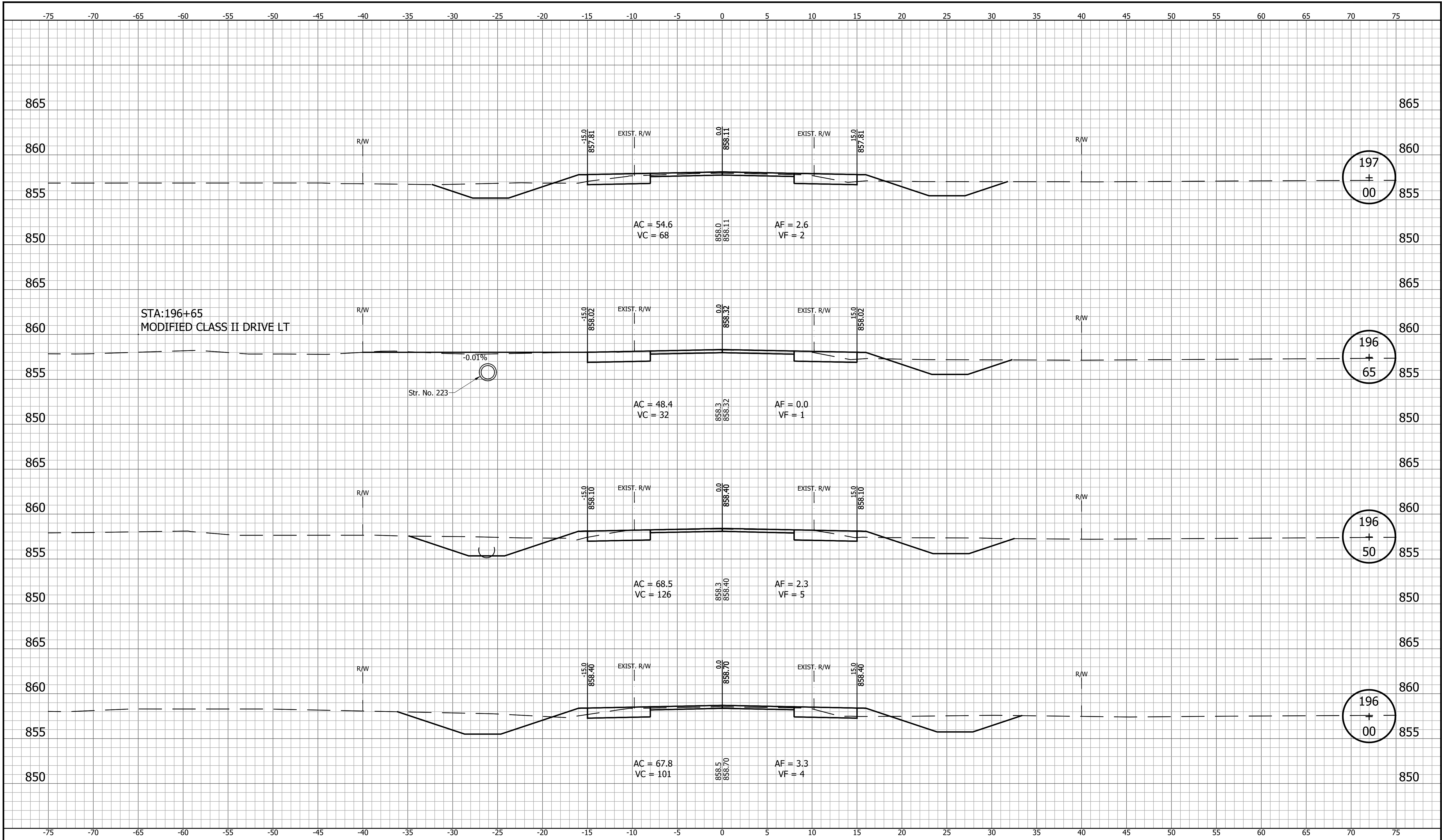
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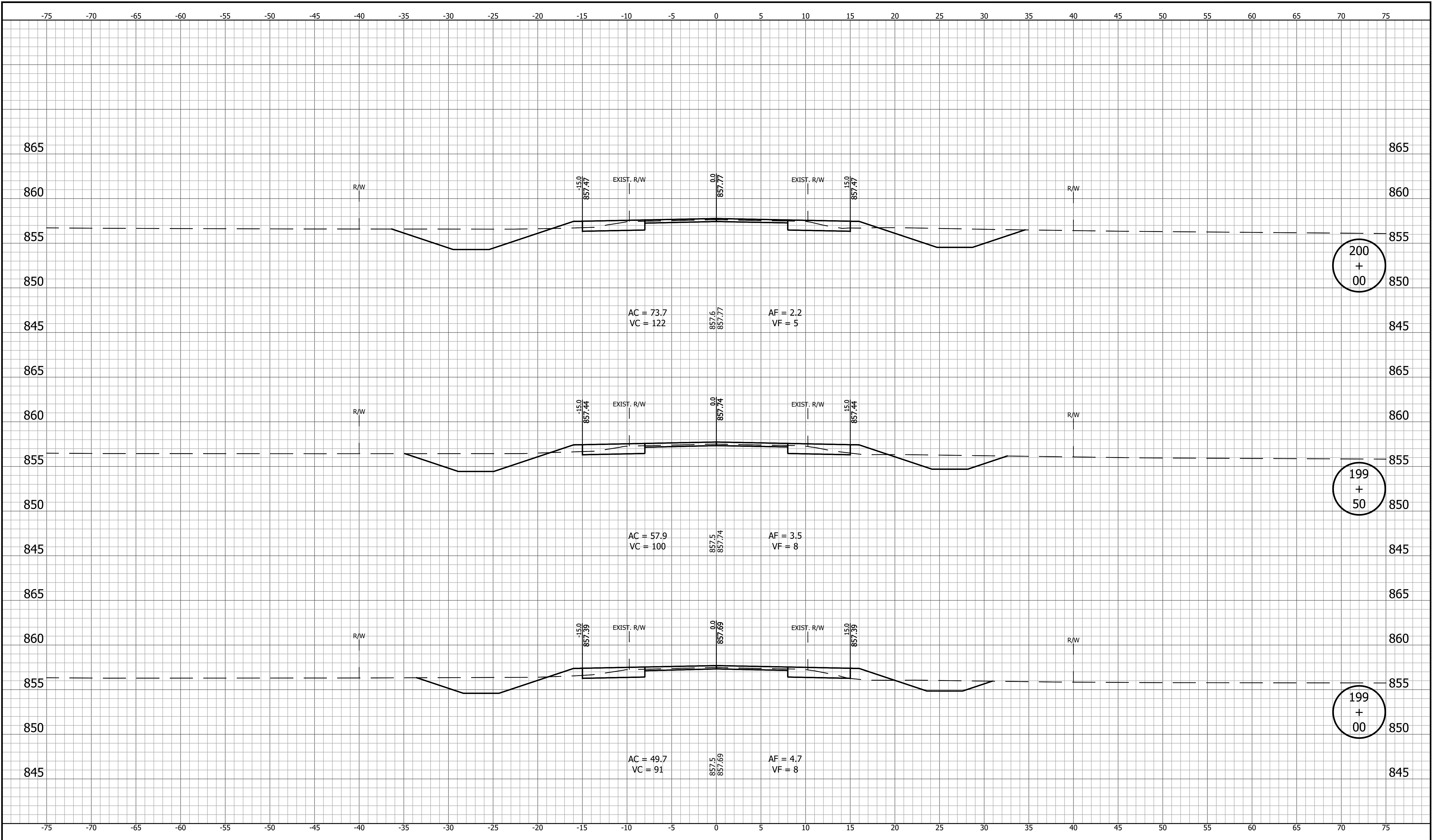
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		DESIGNED: YZ 12/20/2024 DRAWN: MRM 12/20/2024		CROSS SECTIONS LINE "PR-A"		SURVEY BOOK	SHEET 157 of 179
						CONTRACT R-43619	PROJECT 2003031
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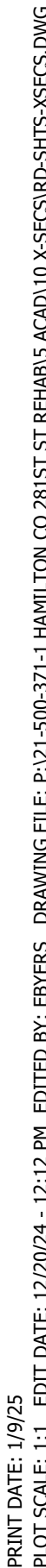


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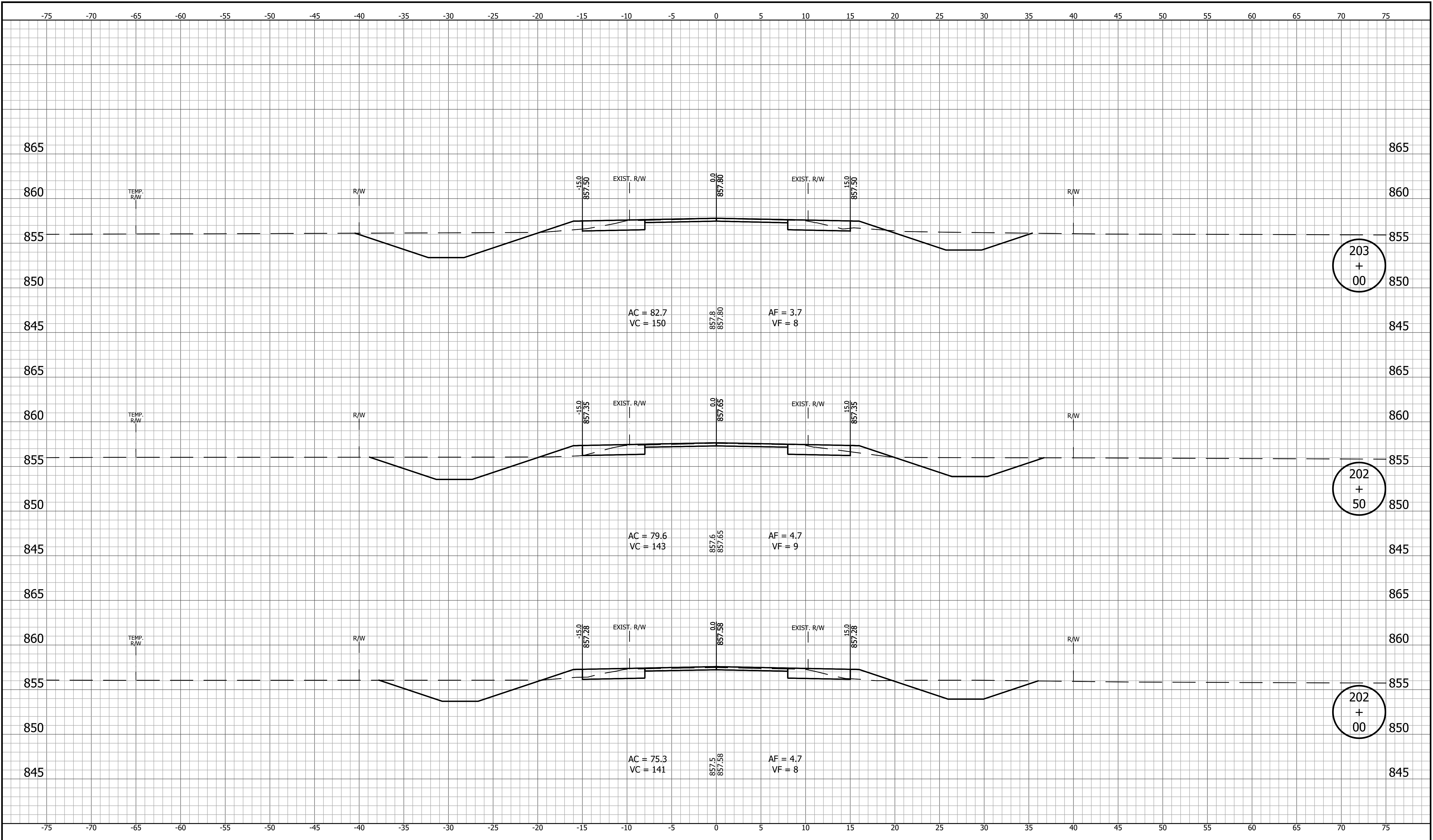


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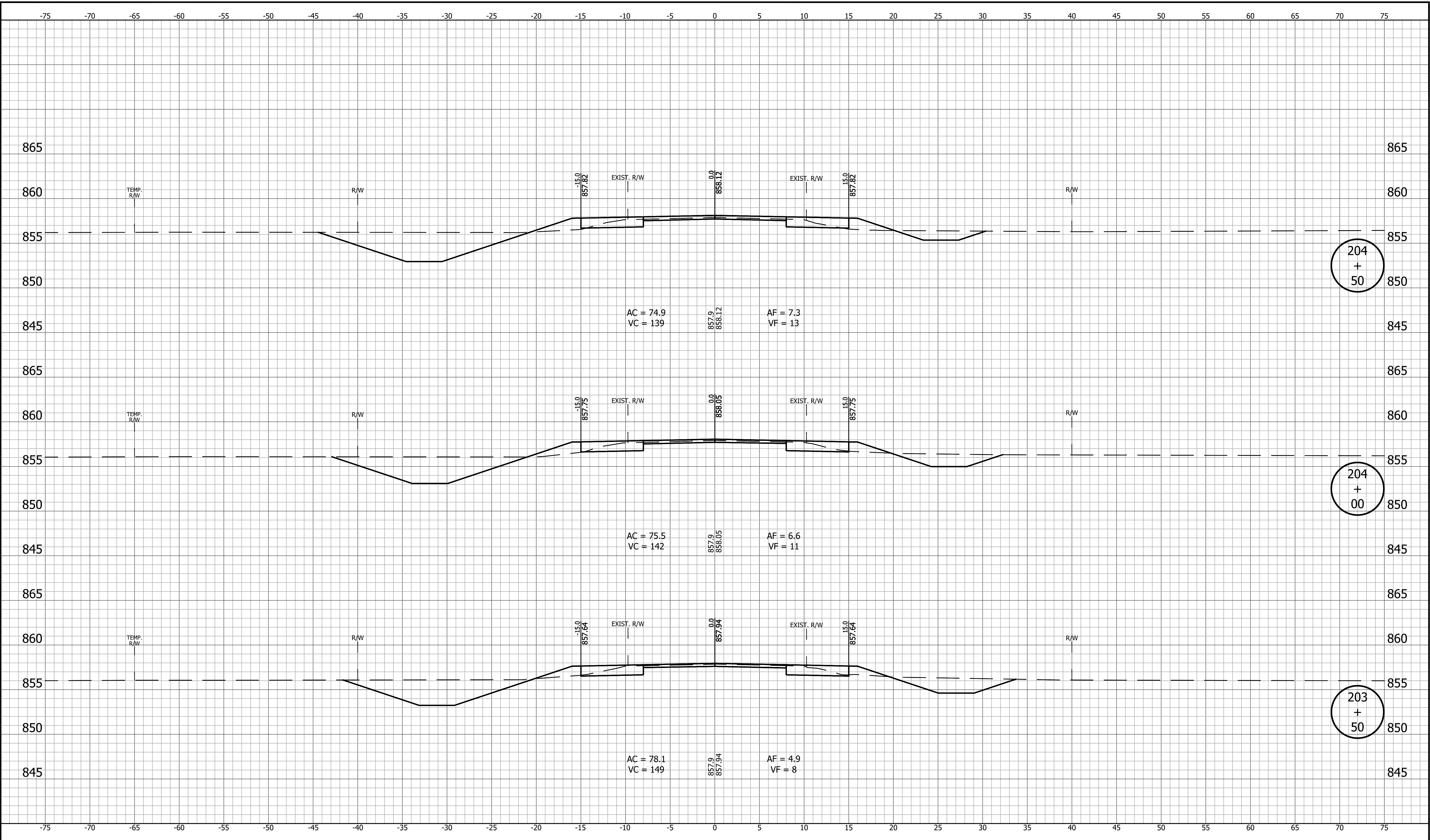
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						PROJECT 2003031			

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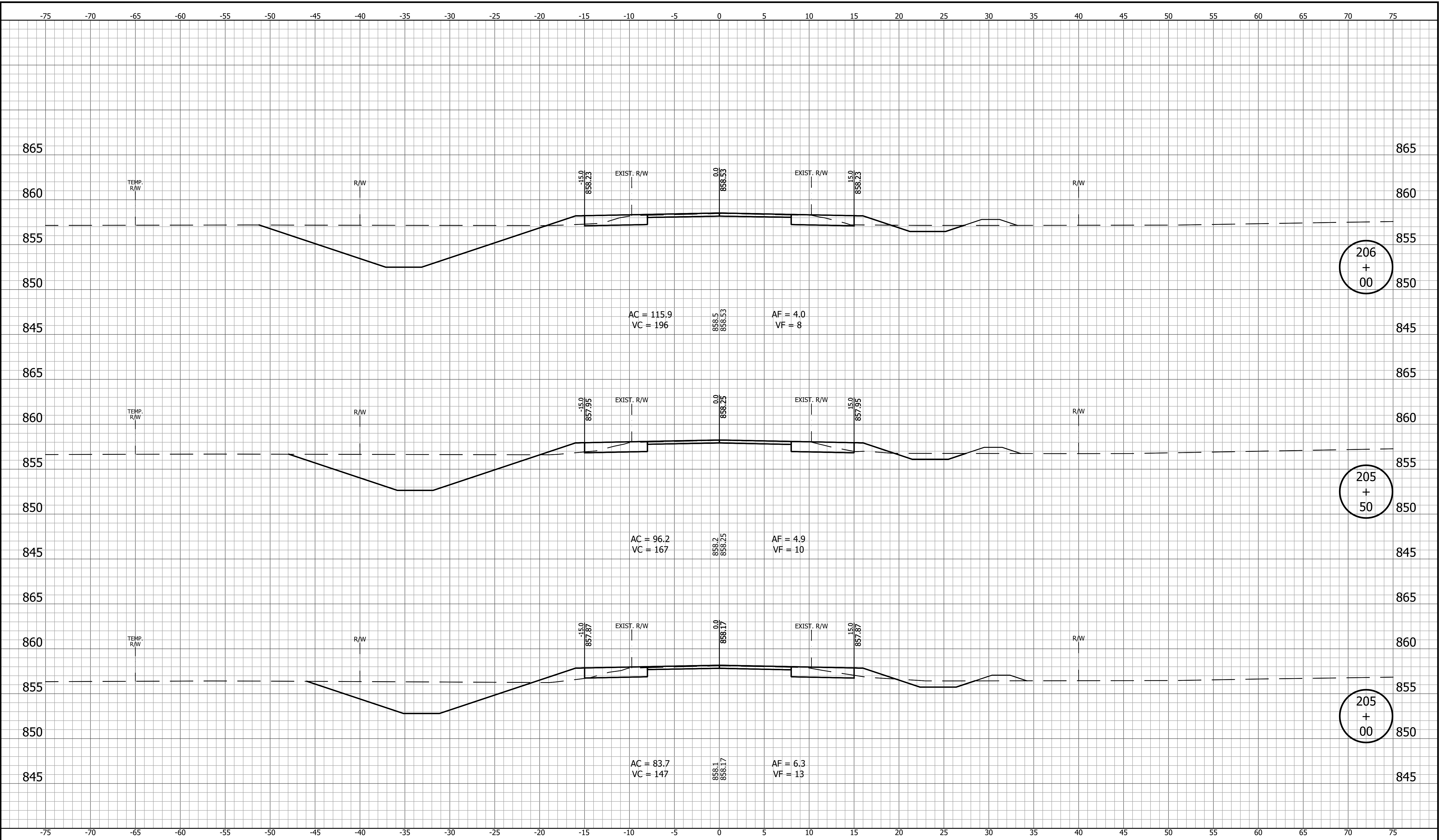
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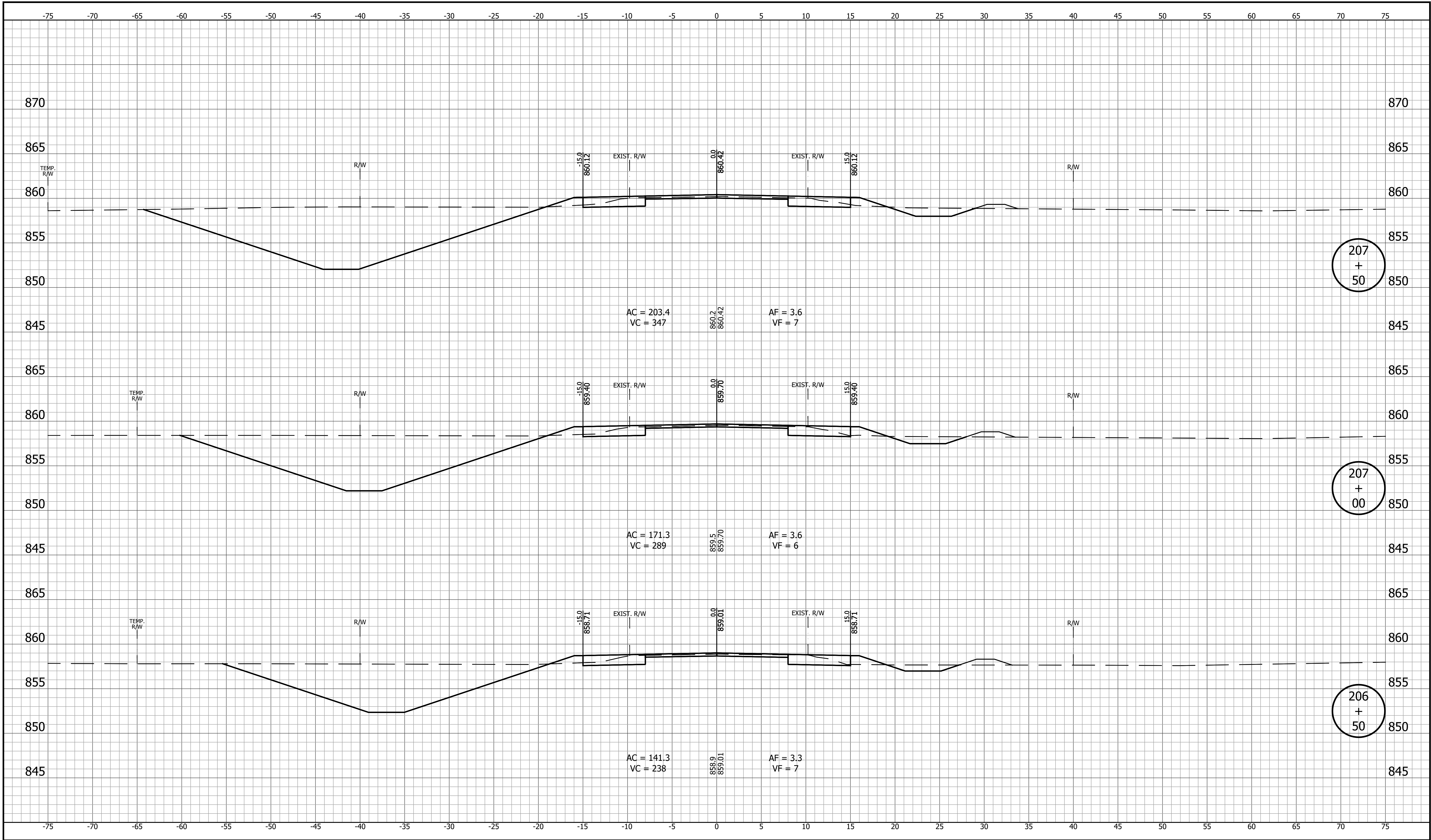
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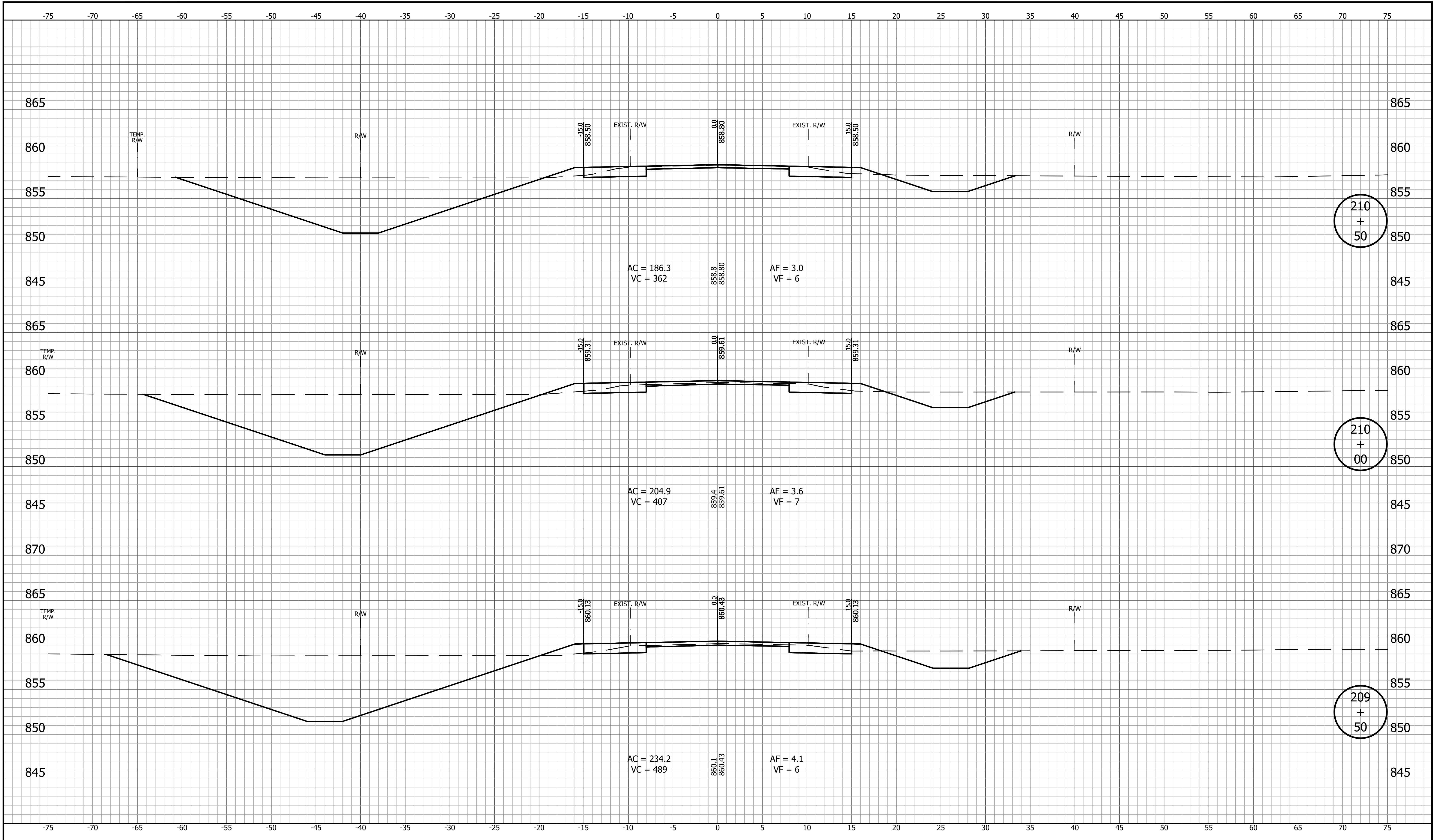
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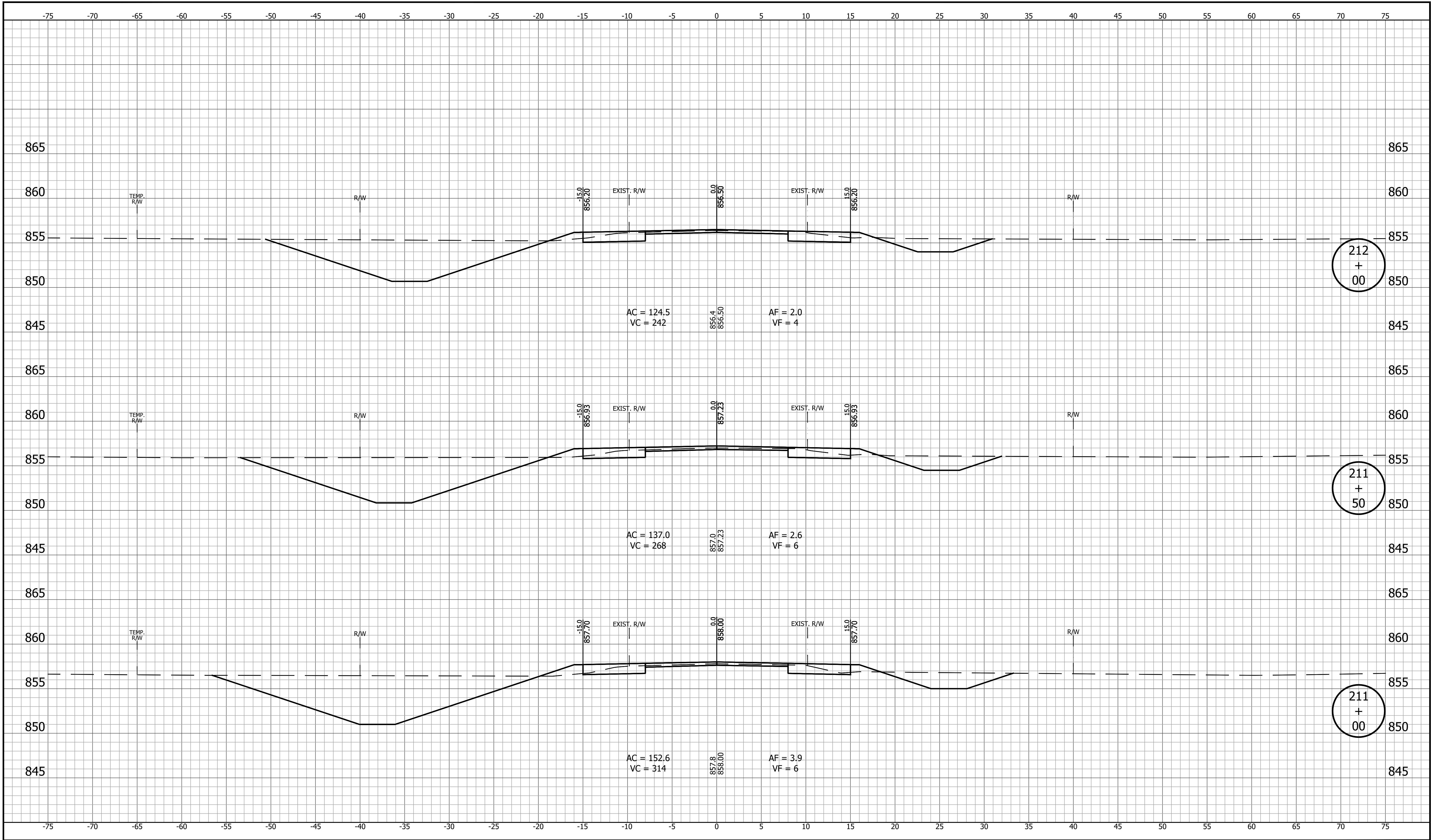
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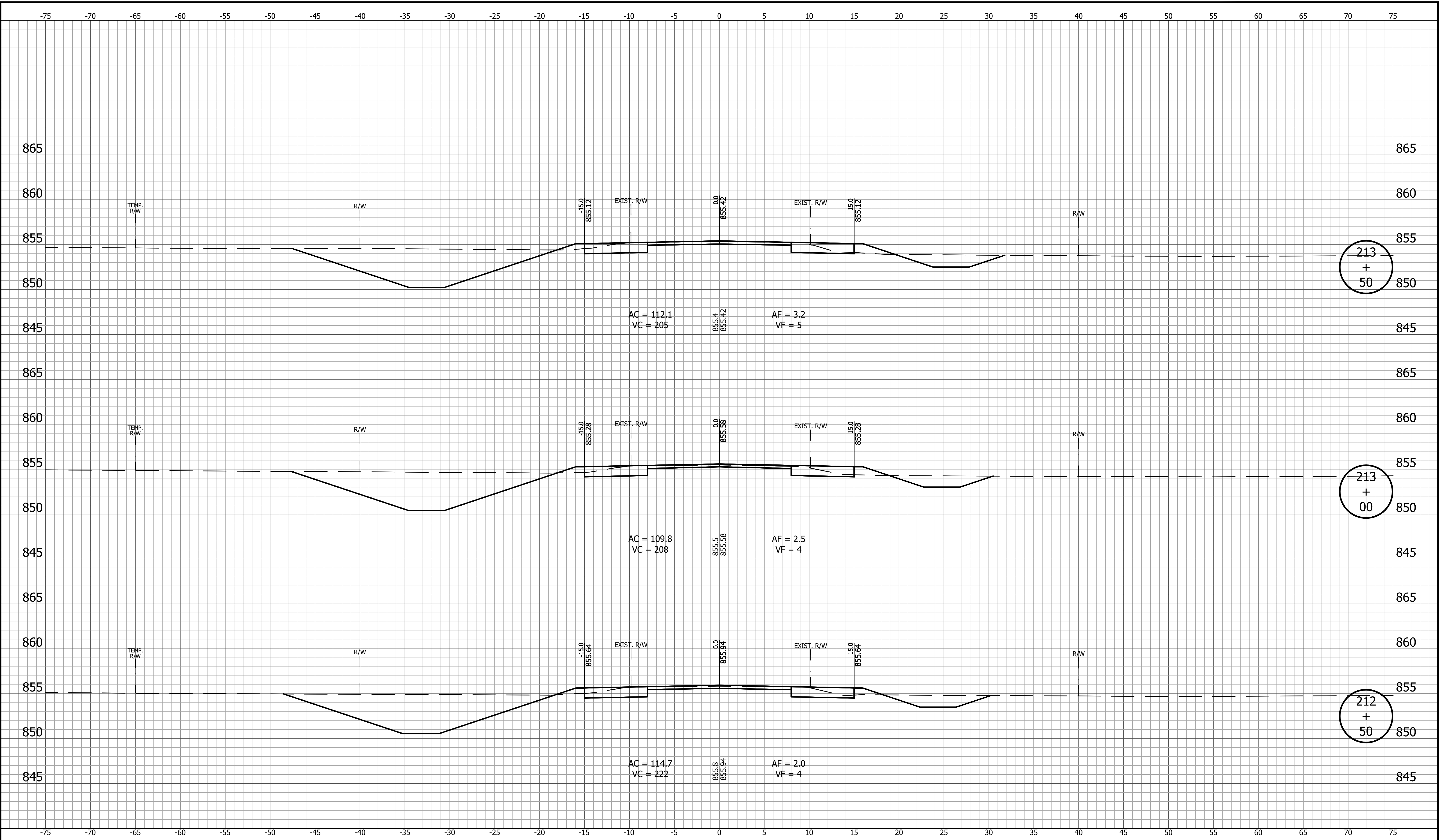
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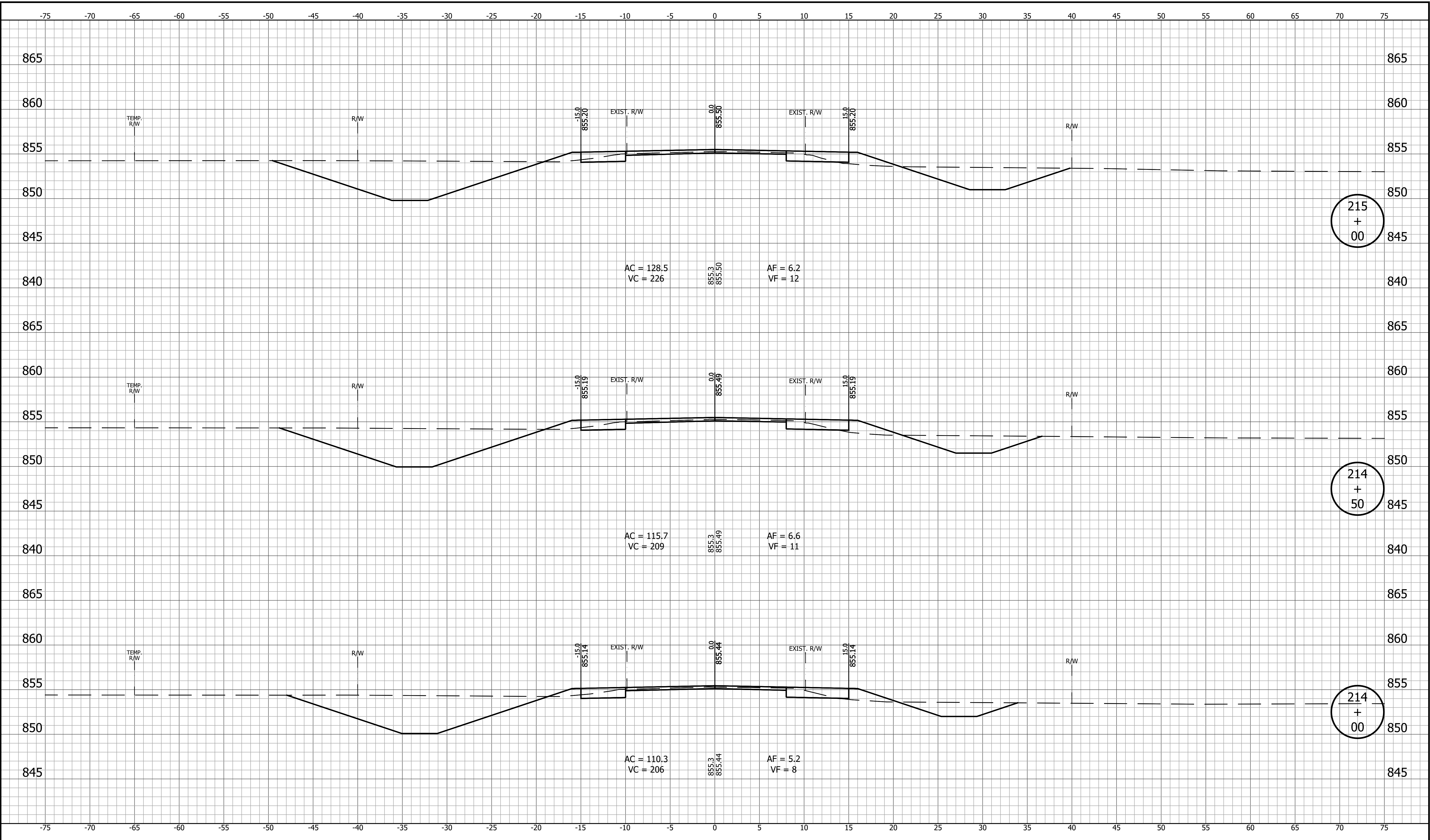
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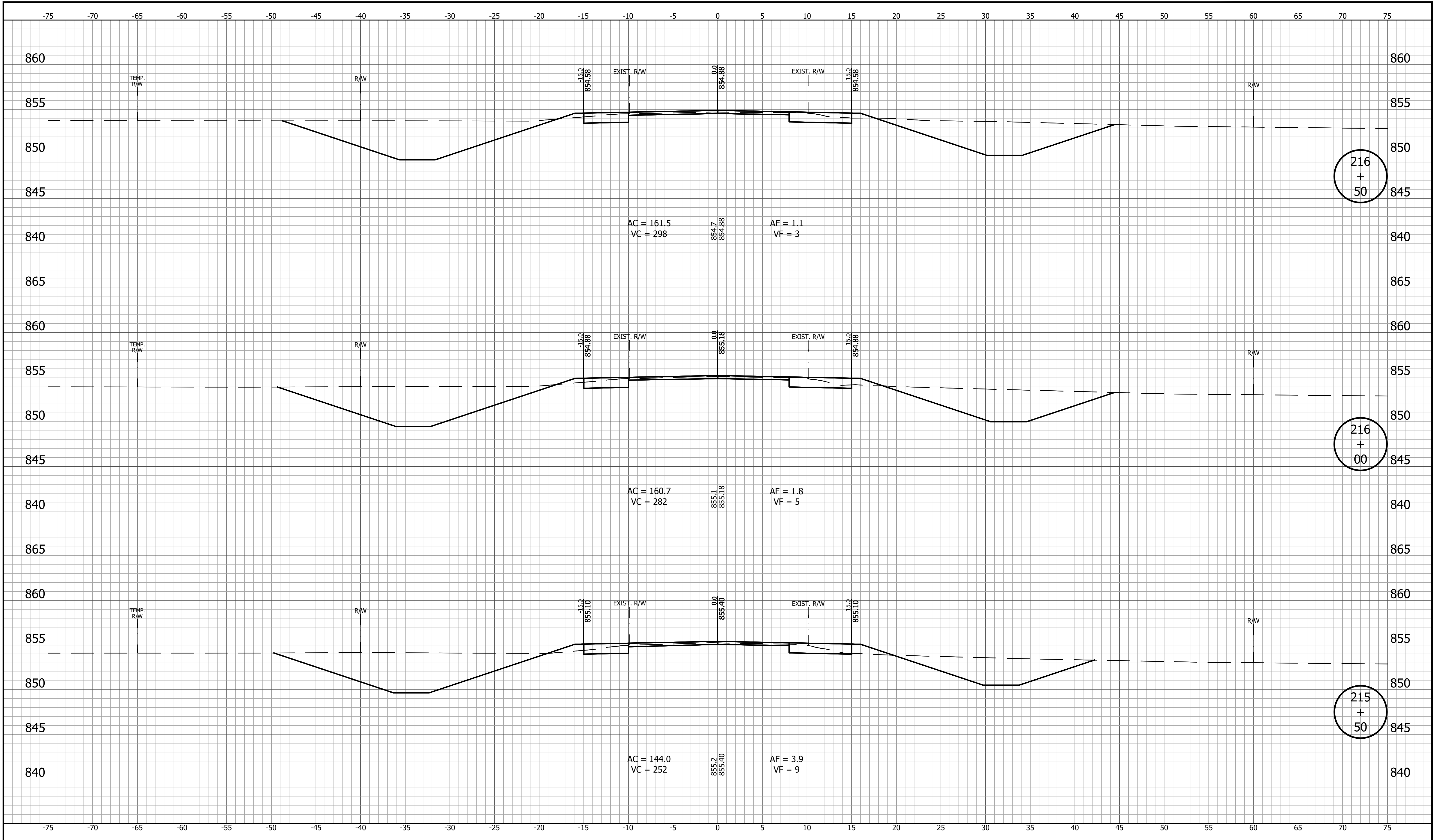
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						R-43619	2003031

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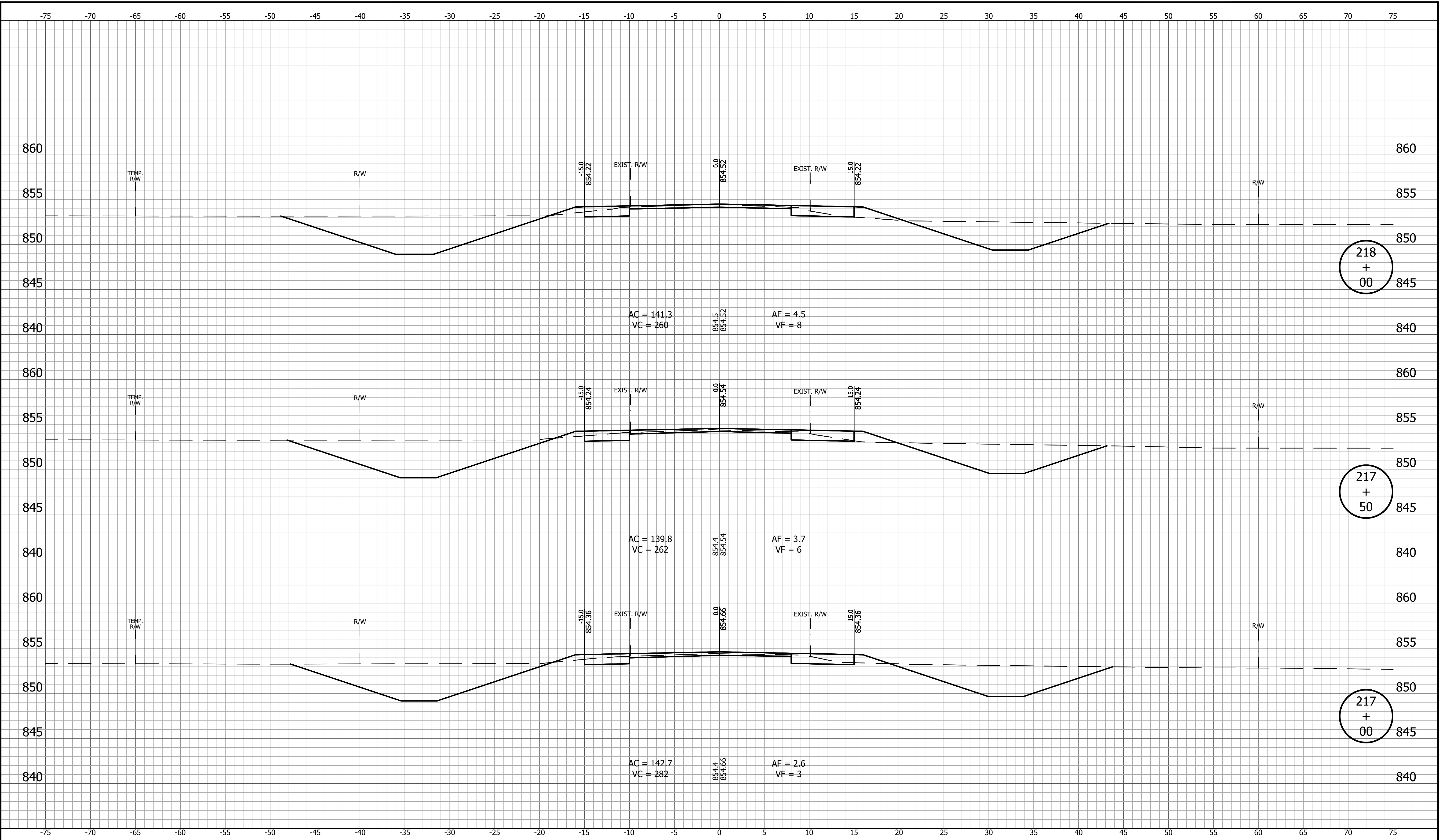
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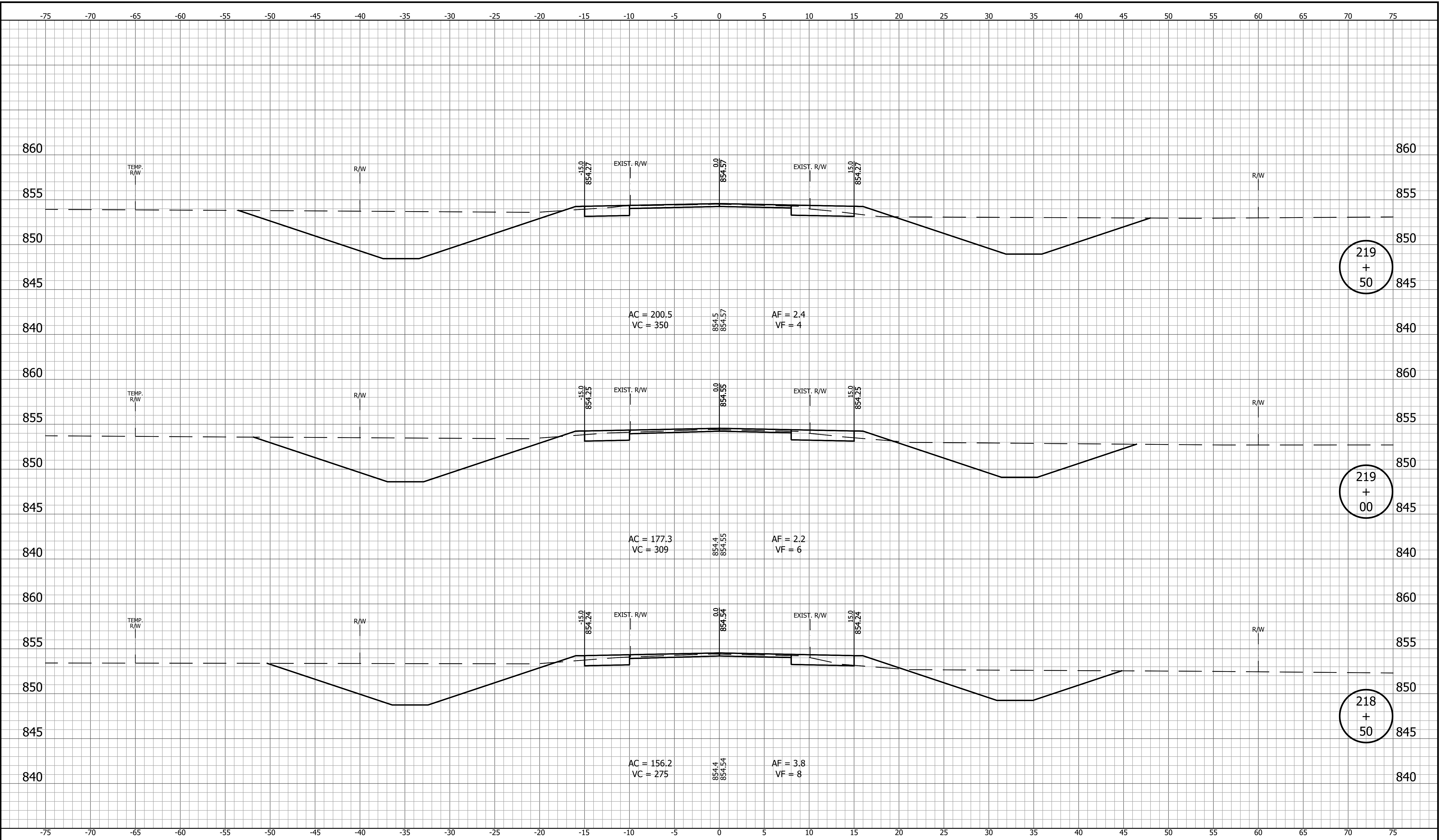
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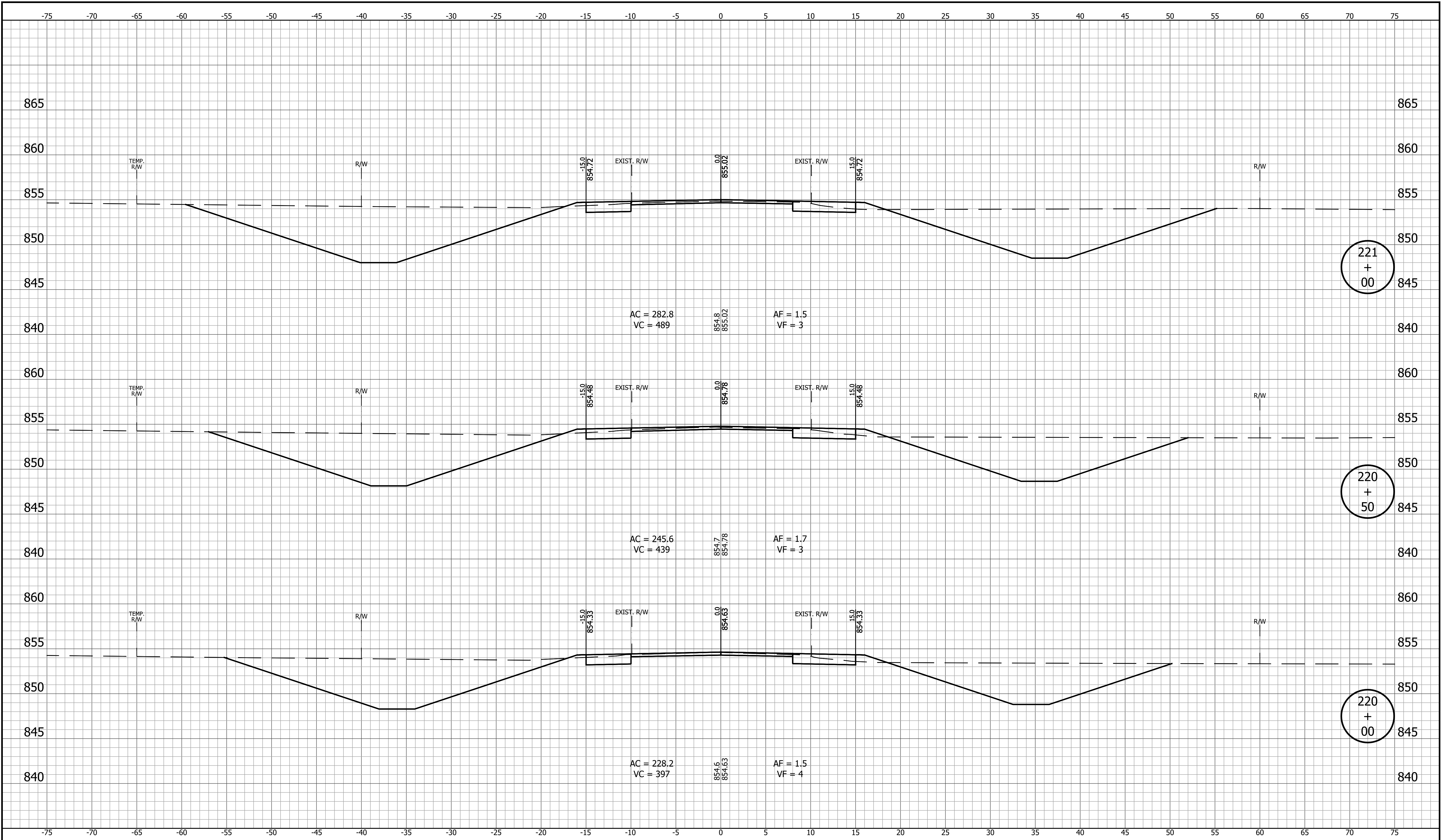
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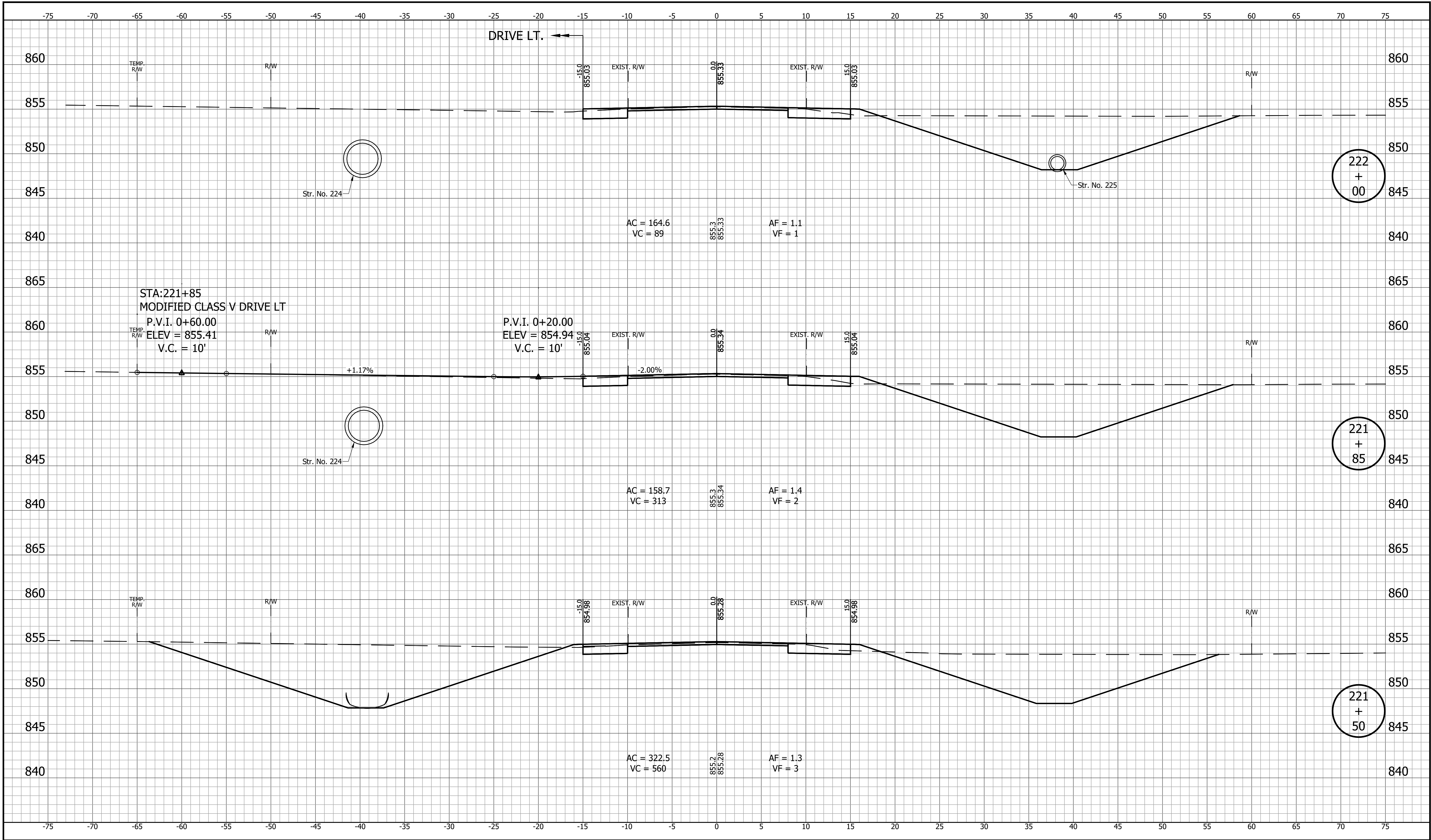
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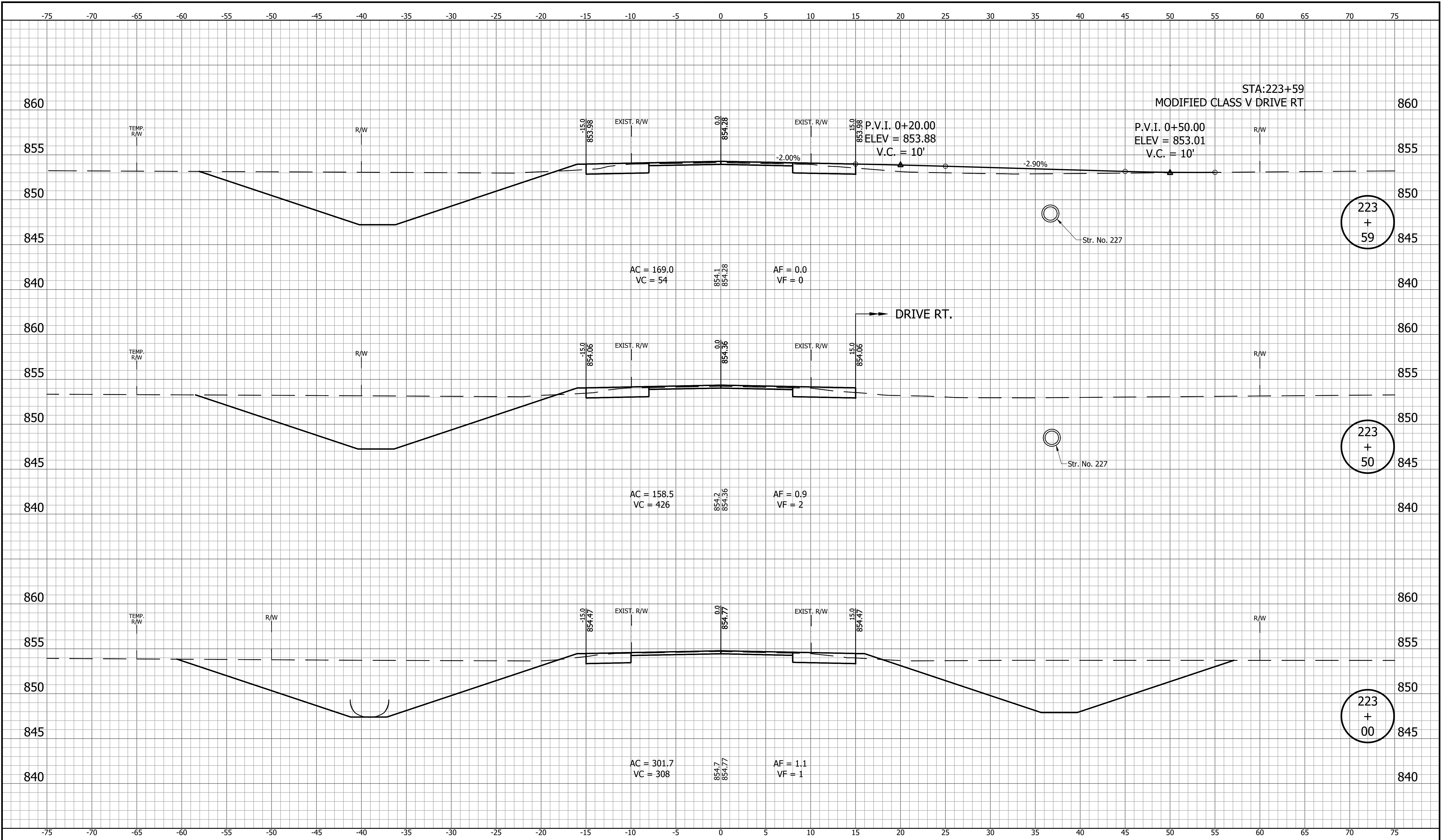
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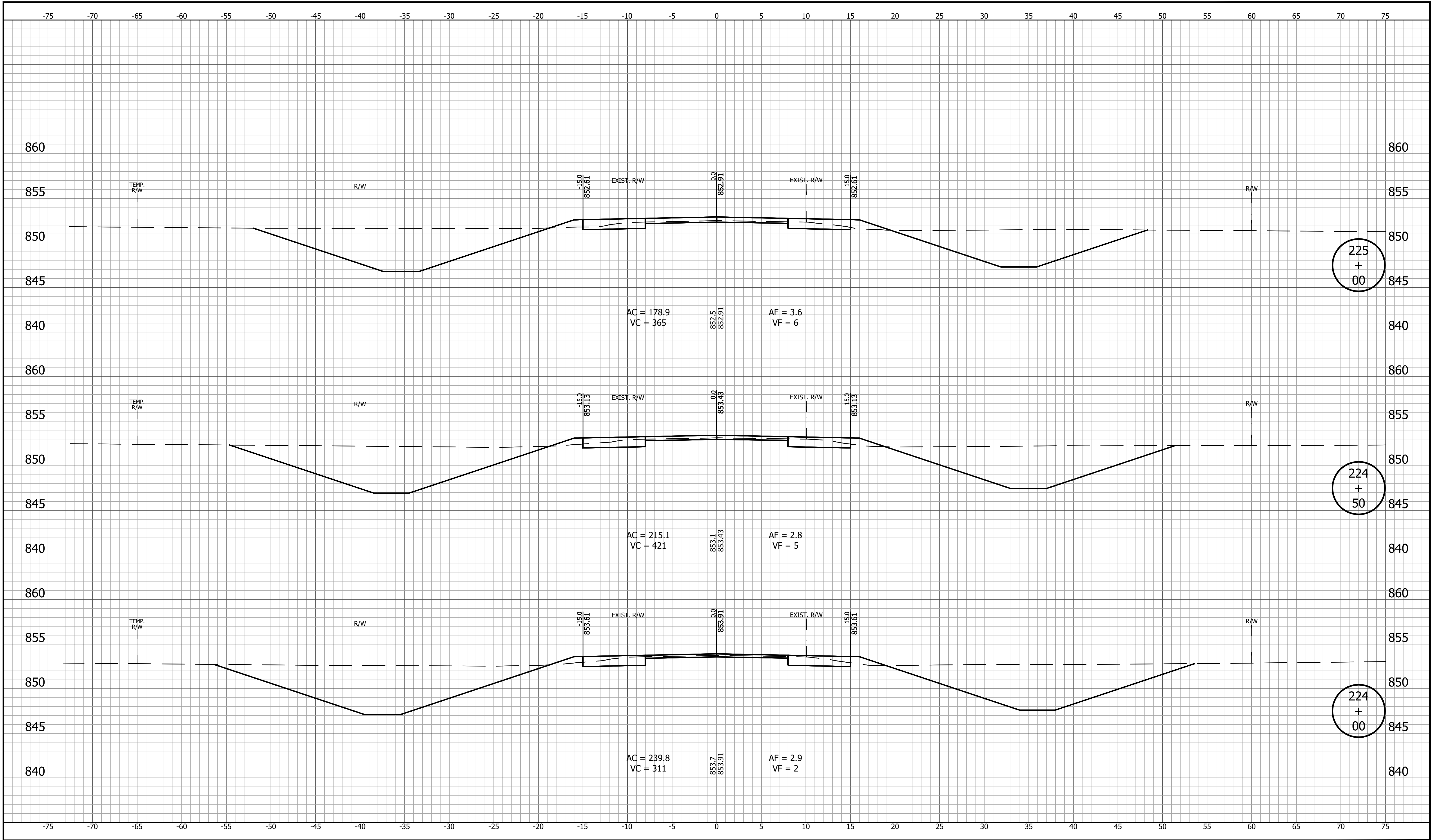
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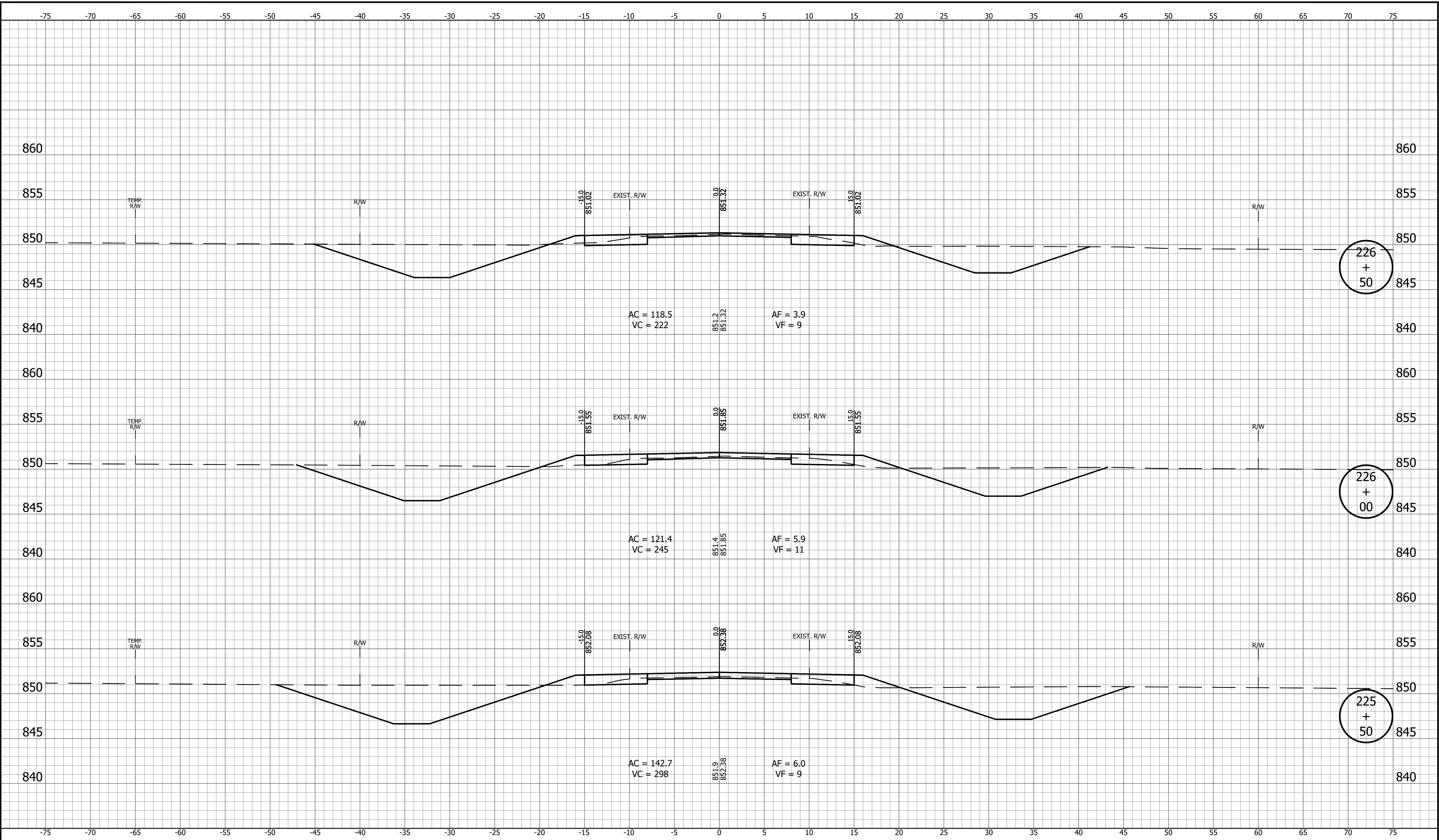
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