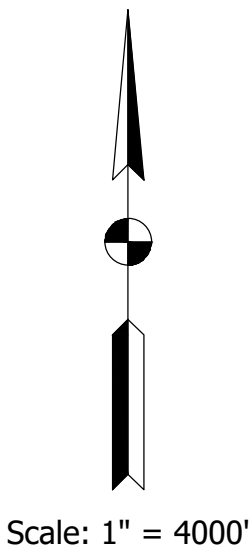
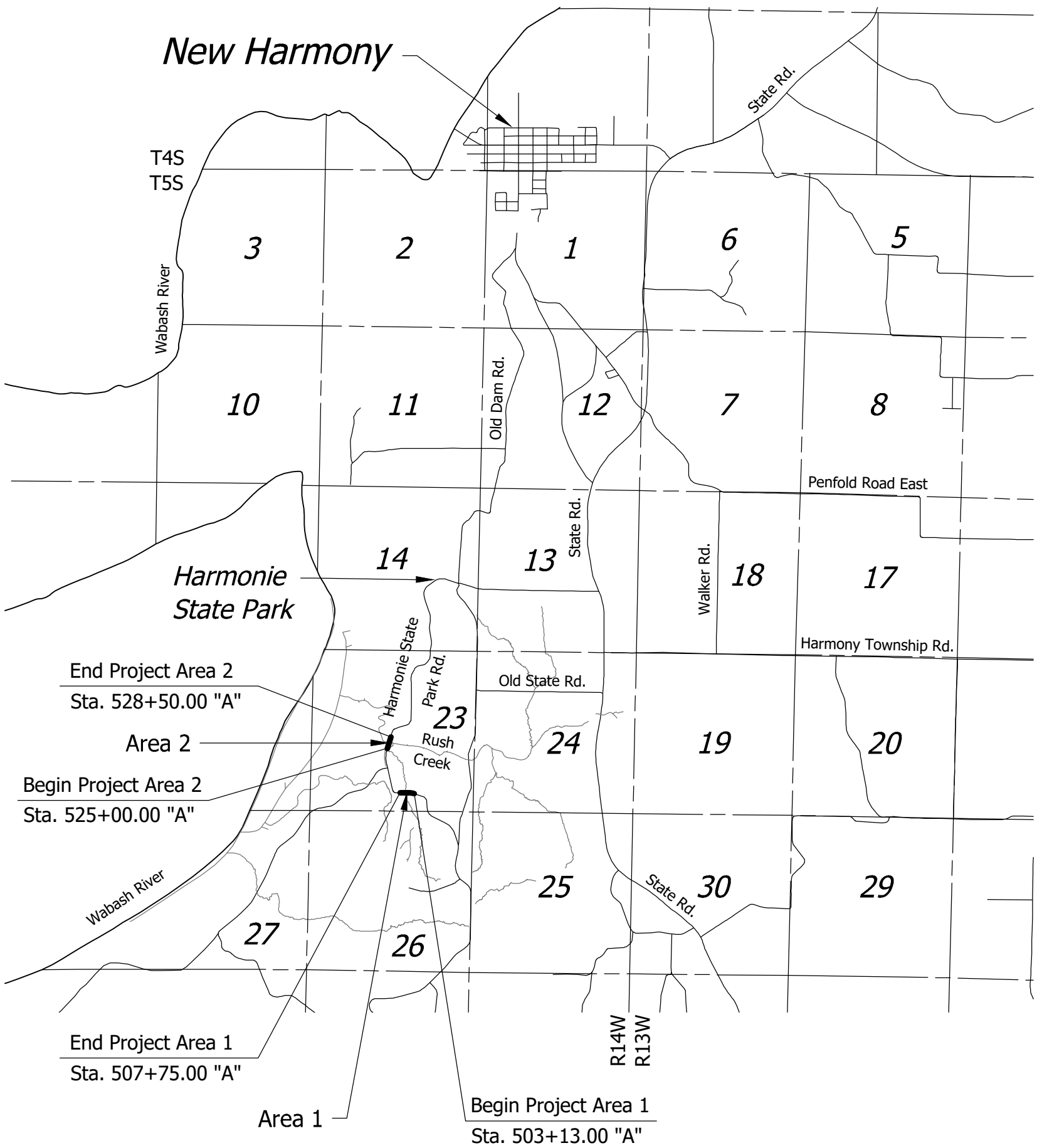


INDIANA DEPARTMENT
OF NATURAL RESOURCES

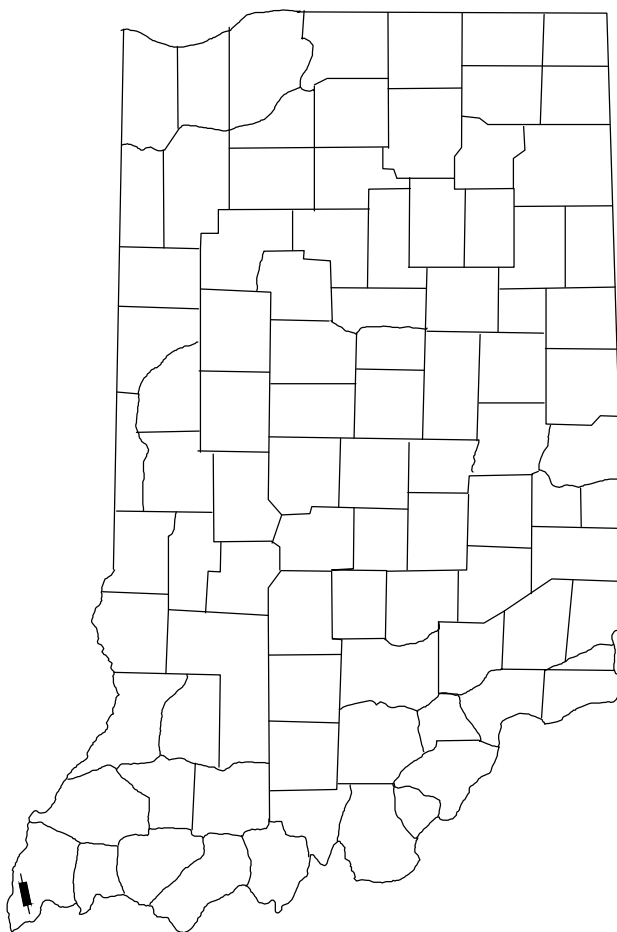


PUBLIC WORKS PROJECT NO. ENG2701728041

Project Area 1 and Area 2 are located within
Harmonie State Park along Harmonie State Park
Road, Located in Section 23, T-5-S, R-14-W,
Posey County, Indiana



VICINITY MAP



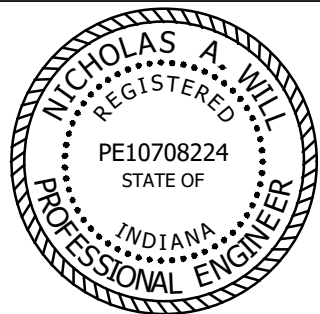
PROJECT LOCATION SHOWN BY —

Area 1	LATITUDE: 38°04'31" N	LONGITUDE: 87°56'59" W
Area 2	LATITUDE: 38°04'14" N	LONGITUDE: 87°56'52" W

GROSS LENGTH:	0.14 MI.
NET LENGTH:	0.14 MI.
MAX. GRADE:	-9.614 %

HYDROLOGIC UNIT CODE (S): 05120113100030

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2026 TO
BE USED WITH THESE PLANS



PLANS
PREPARED BY: LOCHMUELLER GROUP, INC. (812) 479-6200
PHONE NUMBER
CERTIFIED BY: *Nicholas A. Will* 07/15/2026
DATE

BRIDGE FILE		
DESIGNATION ENG2701728041		
SURVEY BOOK	SHEET	
ELECTRONIC	1	of 32
CONTRACT	PROJECT	
83955	124-0005	

Date: Jul 10, 2026, 9:40am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\02_Index.dwg - (Index)

UTILITIES

Electric - Distribution

CenterPoint Energy (South)

Heather Gravino

1 North Main Street

Evansville, IN 47711

812-491-4714

Cell: 812-457-8319

heather.gravino@centerpointenergy.com

Water

Harmonie State Park

Property Manager

Department of Natural Reources

3451 Harmonie State Park Road

Posey County, New Harmony, IN 47631

812-682-4824

zclark@dnr.in.gov

Sewer

Harmonie State Park

Property Manager

Department of Natural Reources

3451 Harmonie State Park Road

Posey County, New Harmony, IN 47631

812-682-4824

zclark@dnr.in.gov



GENERAL NOTES

INDEX	
SHEET NO.	DRAWINGS INDEX
1	TITLE
2	INDEX
PROJECT AREA #1:	
3	TYPICAL SECTIONS
4-7	MAINTENANCE OF TRAFFIC
8	PLAN & PROFILE SHEETS
9-10	CONSTRUCTION DETAILS
11	EROSION & SEDIMENT CONTROL PLAN
12-15	CROSS SECTION SHEETS
PROJECT AREA #2:	
16	TYPICAL SECTIONS
17-20	MAINTENANCE OF TRAFFIC
21-22	PLAN & PROFILE SHEETS
23-24	CONSTRUCTION DETAILS
25	EROSION & SEDIMENT CONTROL PLAN
26-29	CROSS SECTION SHEETS
30-31	EROSION & SEDIMENT CONTROL DETAILS & TABLES
32	MISCELLANEOUS DETAILS & TABLES

REVISIONS		
SHEET NO.	DATE	REVISED

TEMPORARY BENCHMARKS

BM1
ELEV: 409.593
CHIS "X" ON TOP CONC JUT OUT OFF CONC SIDE DITCH APPROX 20FT EAST OF CONC DITCH INT NORTH SIDE ROAD

BM2
ELEV: 411.228
PUNCH MARK IN SOUTH EDGE RIM FORCE MAIN SEWER MANHOLE

BM3
ELEV: 370.255
CHIS X ON TOP 3" STEEL PIPE COMING OUT HORIZ FROM SOUTH SIDE LARGE STEEL INJECTION WELL SET 10" AG

RANDOM HORIZONTAL CONTROL

1000
N: 234884.767
E: 788146.910, 407.435
MAG IN TOP ASPH CURB

1001
N: 234918.745
E: 787570.372
MAG W/ CONTROL POINT WASHER IN EDGE BIKE LANE

1002
N: 235529.498
E: 787400.200
CHIS X ON TOP CONC SIDE DITCH AT EDGE ROAD

1003
N: 236029.156
E: 787296.090
BARN NAIL IN DIRT

1004
N: 236460.754
E: 787364.411
MAG W/ CONTROL POINT WASHER SET RECESSED IN WEST EDGE BIKE LANE

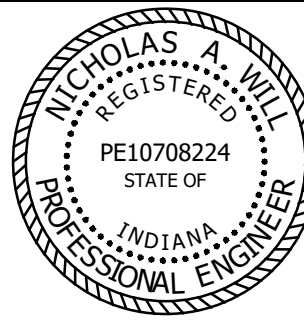
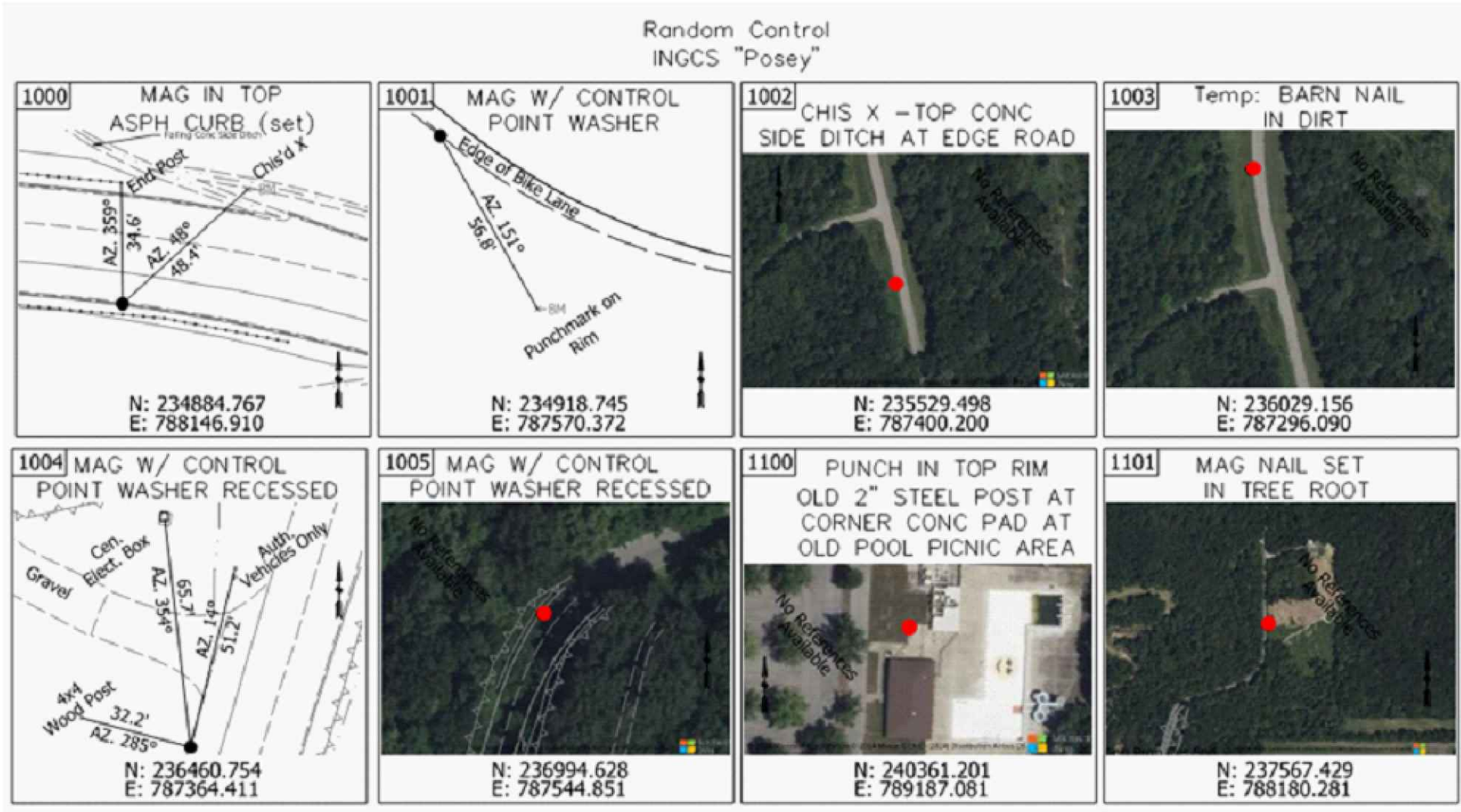
1005
N: 236994.628
E: 787544.851
MAG W/ CONTROL POINT WASHER SET RECESSED IN WEST EDGE ROAD

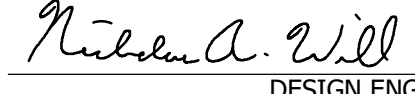
1100
N: 240361.201
E: 789187.081
PUNCH IN TOP RIM OLD 2" STEEL POST AT CORNER CONC PAD AT OLD POOL PICNIC AREA

1101
N: 237567.429
E: 788180.281
MAG IN TREE ROOT

NOTE:
Horizontal Datum and Bearings used for this survey are on the INGCS Posey coordinate grid, as established by quad 45 epoch VRS solutions. All other on-site points were established by Local-Base GPS observations.

Vertical Datum used for this survey is NAVD 88, as established by way of quad 45 epoch VRS solutions. Differential levels were run thru all project benchmarks and control points.

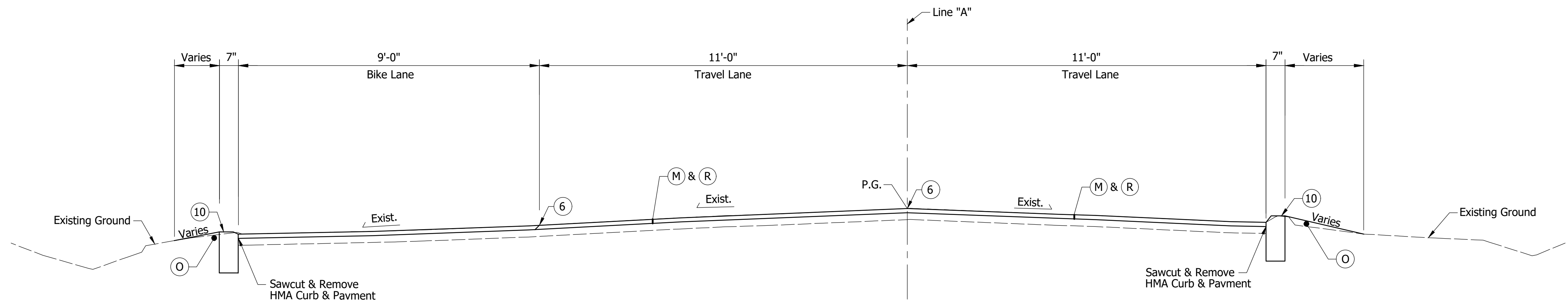


RECOMMENDED FOR APPROVAL		07/15/2026
DESIGNED:	DAS	DRAWN: CCW
CHECKED:	NAW	CHECKED: DAS

INDIANA DEPARTMENT OF NATURAL RESOURCES
INDEX

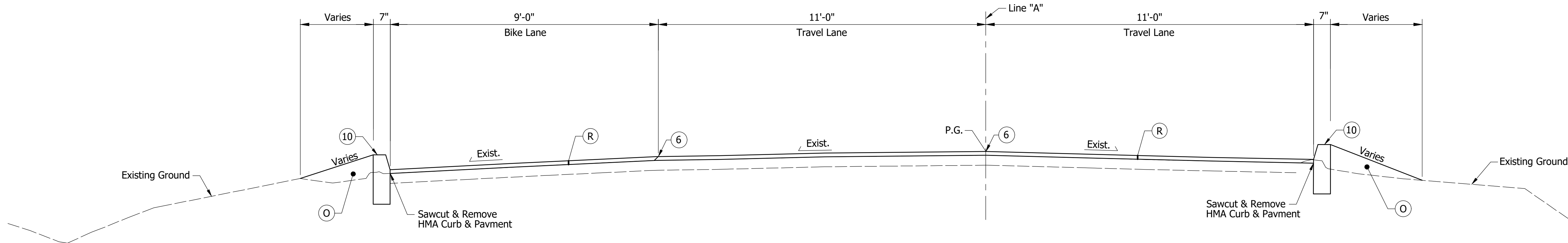
HORIZONTAL SCALE	BRIDGE FILE
No Scale	
VERTICAL SCALE	DESIGNATION
---	ENG2701728041
SURVEY BOOK	SHEET
ELECTRONIC	2 of 32
CONTRACT	PROJECT
83955	124-0005

PROJECT AREA #1



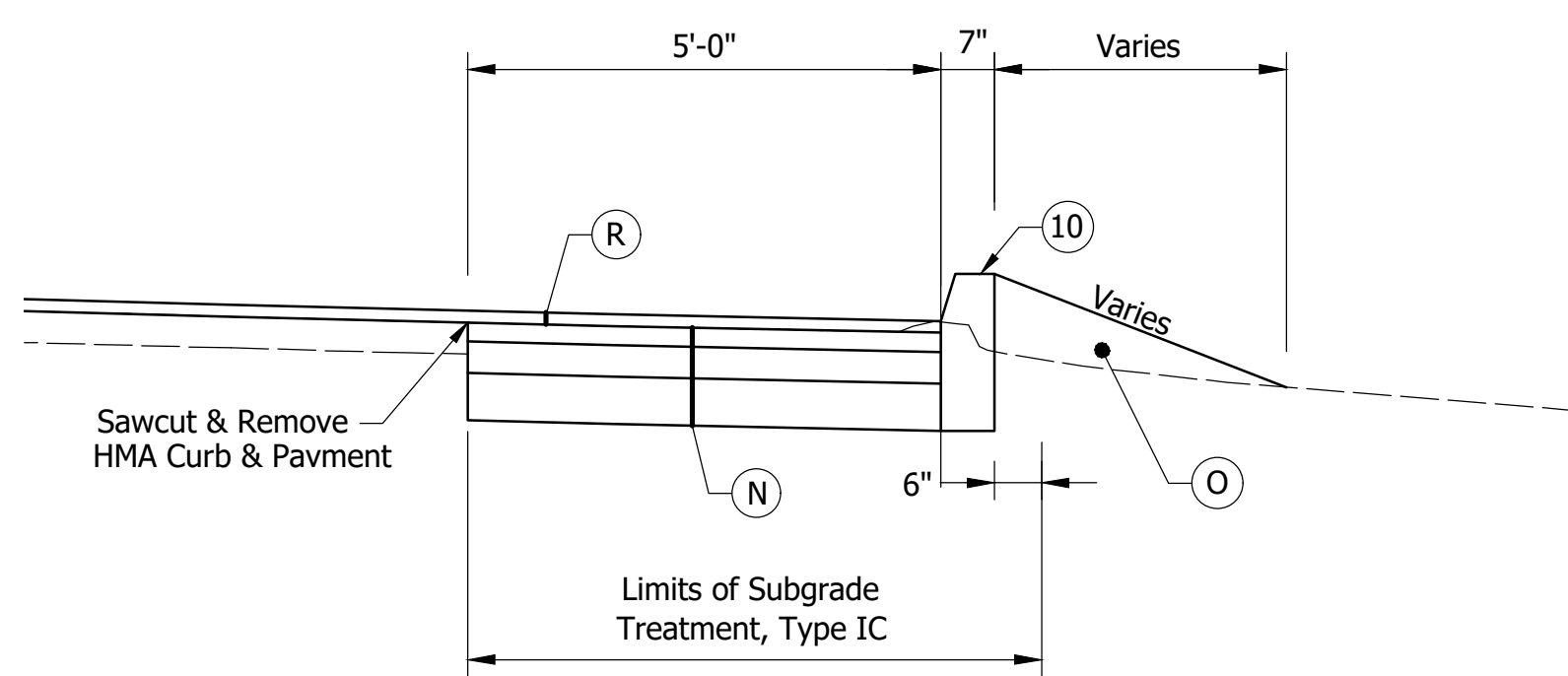
TYPICAL MILL & OVERLAY SECTION

Sta. 503+13.00 to Sta. 503+38.00
Sta. 507+50.00 to Sta. 507+75.00



TYPICAL OVERLAY SECTION

Sta. 503+38.00 to Sta. 507+50.00



AUXILIARY TYPICAL SECTION

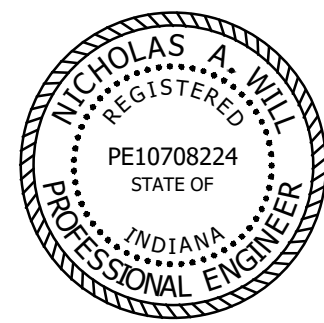
Sta. 505+56.00 to Sta. 506+00.00 Lt.
Sta. 505+70.00 to Sta. 506+03.00 Rt.

LEGEND

- (M) Milling, Asphalt, Varies (0" to 1.5")
- (N) HMA for Structure Installation, Type B
[275#/SYS HMA, Intermediate, Type B, on
440#/SYS HMA, Base, Type B, on
6" Compacted Aggregate, No. 53 on
Subgrade Treatment Type IC]
- (O) Compacted Aggregate, No. 53
- (R) 165#/SYS HMA, Surface, Type B
- (6) Construction Joint
- (10) Concrete Curb

Note: See Cross Section for Spot Elevation for Concrete Curb.

Date: Jul 10, 2026, 9:35am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\602_Typicals.dwg - (Typicals Area2)

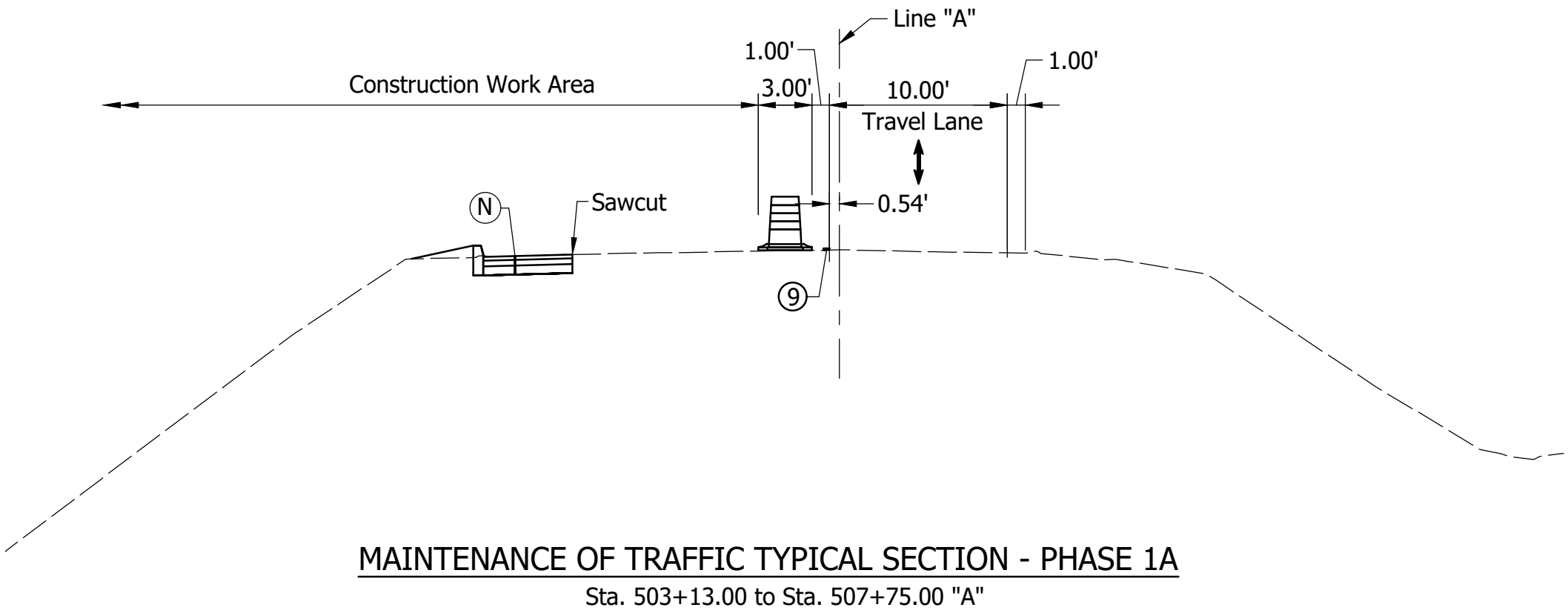


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	07/15/2026	DATE
DESIGNED:	DAS	DRAWN:	CCW	
CHECKED:	NAW	CHECKED:	DAS	

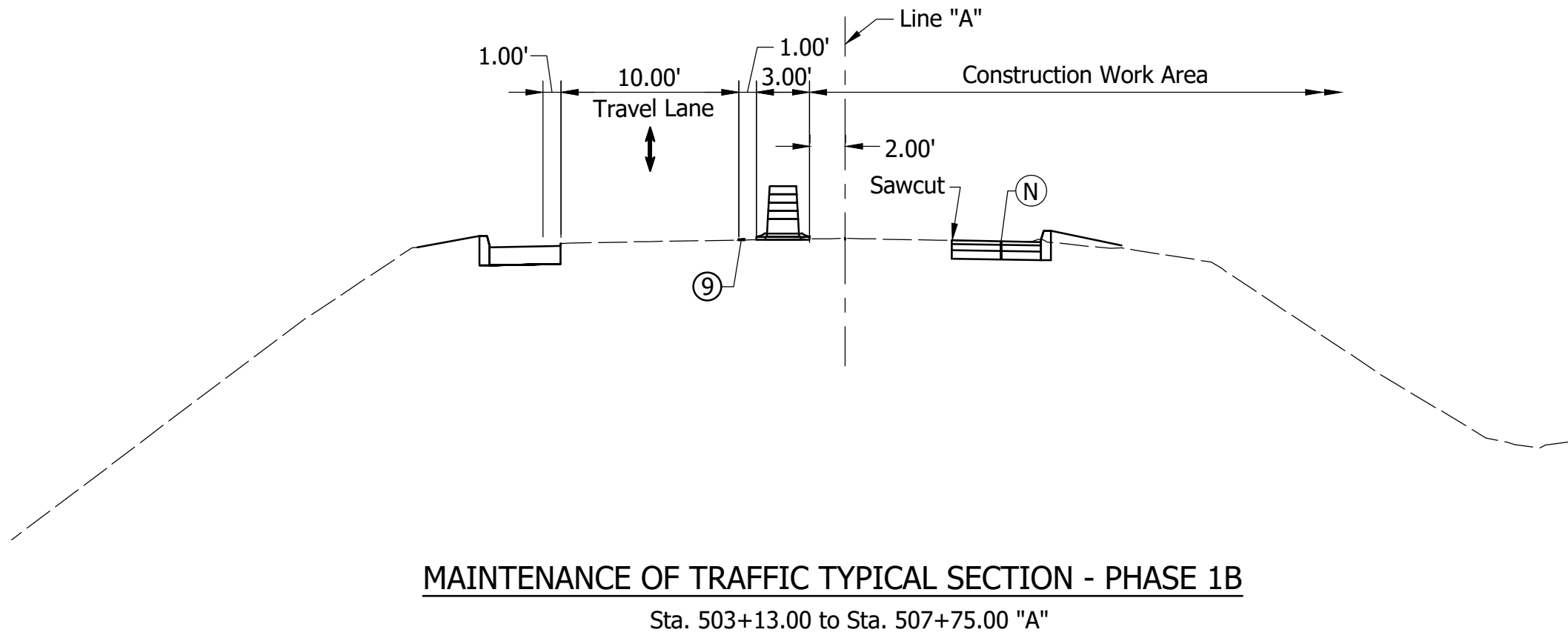
INDIANA
DEPARTMENT OF NATURAL RESOURCES

TYPICAL SECTION
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE		
1/2" = 1'-0"			
VERTICAL SCALE	DESIGNATION		
---	ENG2701728041		
SURVEY BOOK	SHEET		
ELECTRONIC	3	of	32
CONTRACT	PROJECT		
83955	124-0005		



MAINTENANCE OF TRAFFIC TYPICAL SECTION - PHASE 1A
Sta. 503+13.00 to Sta. 507+75.00 "A"



MAINTENANCE OF TRAFFIC TYPICAL SECTION - PHASE 1B
Sta. 503+13.00 to Sta. 507+75.00 "A"

- LEGEND
- (N) HMA for Structure Installation, Type B
[275#/SYS HMA, Intermediate, Type B, on
440#/SYS HMA, Base, Type B, on
6" Compacted Aggregate, No. 53 on
Subgrade Treatment Type IC
 - (9) Temporary Pavement Marking, Removable, Solid, White, 4"
 - (12) Tubular Marker Delineator (25' Spacing)
Standard Drum (25' Spacing)

PARK ROAD PROJECT AREA #1

PHASE 1A:
Place Temporary Signal and Temporary Pavement Markings.
Shift Traffic to North Side of Park Road.
Install Proposed Structures, Proposed Curb, Proposed Curb Turnouts and
Place HMA for Structure Installation Around Proposed Structures on South Side of Park Road.
Remove Paved Side Ditch and Place Proposed Rip Rap on South Side of Park Road.

PHASE 1B:
Relocate Temporary Signal and Shift Traffic to South Side of Park Road.
Install Proposed Structures, Proposed Curb, Proposed Gutter on North Side of Park Road.
Place HMA for Structure Installation Around Proposed Structures.
Remove Paved Side Ditch and Place Proposed Rip Rap on North Side of Park Road.
Place 1.5" HMA Overlay of Park Road Within Limits of Park Road Project Area #2.
Place Mill and Overlay Transition at Begin and End Project for Smooth Pavement Transition.
The Mill and Overlay Operations Shall be Completed Under Flagging and Follow INDOT
Standard Drawing 801-TCFO-03.
Place Proposed Stripping and Bike Lane Symbols.
Contractor Shall Maintain Access to Park/Campground at All Times.

MAINTENANCE OF TRAFFIC						
PHASE	Construction Sign, A	Construction Sign, B	Barricade, III-B	Temporary Pavement Marking, Removable, 4"	Temporary Pavement Marking, 6", Black	Temporary Transverse Pavement Marking, Removable, 24"
	Each	Each	LFT	LFT	LFT	LFT
Phase 1A	9	17	40	1,201	100	31
Phase 1B	9	17	40	1,044	1,046	-
Mill & Overlay	8	-	-	-	-	-

Date: Jul 10, 2026, 9:40am User Name: Lorie
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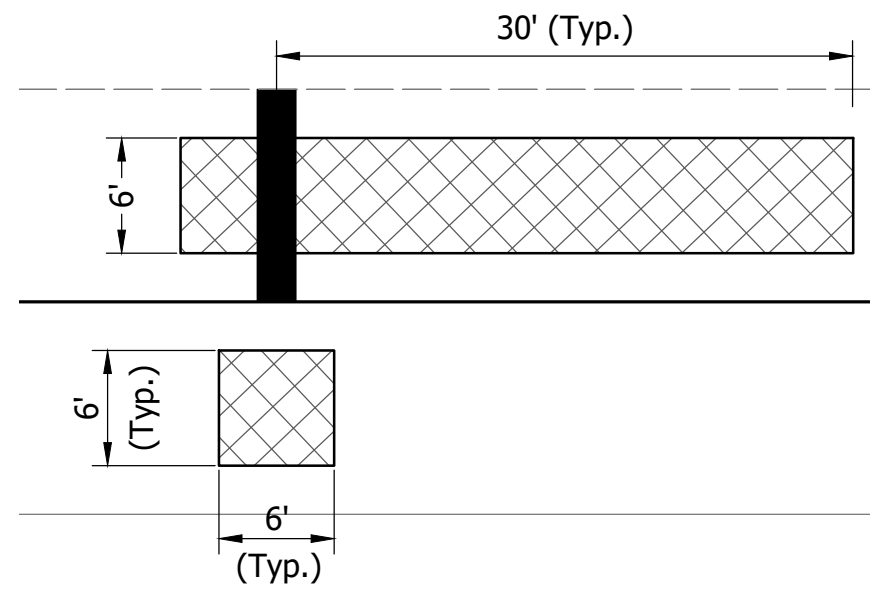
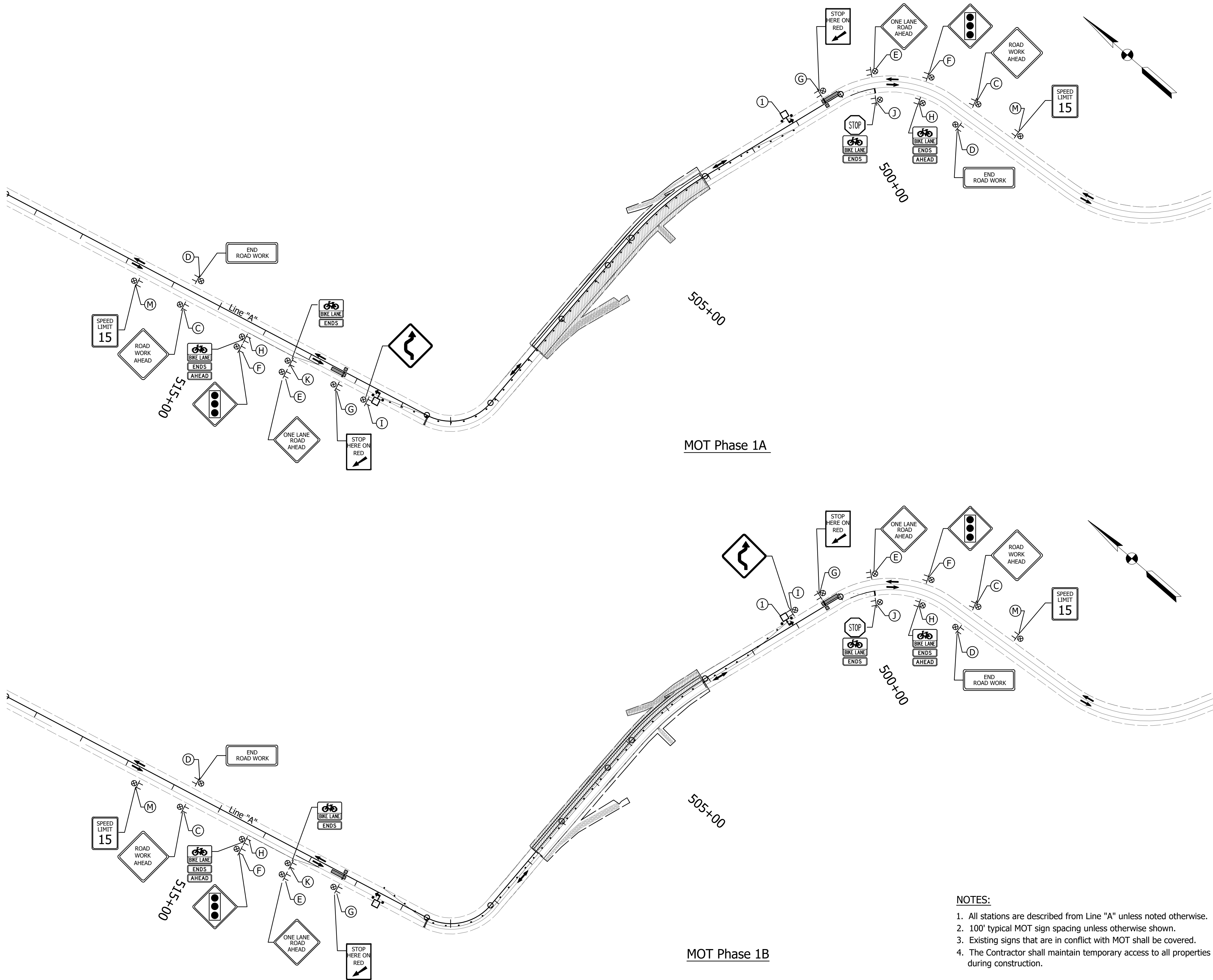
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	DESIGN ENGINEER	DATE
DESIGNED: _____	DAS	DRAWN: _____
		CCW
CHECKED: _____	NAW	CHECKED: _____
		DAS

INDIANA
DEPARTMENT OF NATURAL RESOURCES

MAINTENANCE OF TRAFFIC
TYPICALS

HORIZONTAL SCALE		BRIDGE FILE	
1/8" = 1'			
VERTICAL SCALE		DESIGNATION	
-		ENG2701728041	
SURVEY BOOK		SHEET	
ELECTRONIC		4	of 32
CONTRACT		PROJECT	
83955		124-0005	

Date: Jul 10, 2026, 9:37am User Name: Lorie
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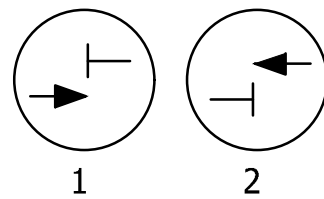
LEGEND

- (B) Std. Barricade, Type III-B (Feet Req'd.)
- (C) Construction Sign, A, XW20-1A (Road Work Ahead)(36"x36")
- (D) Construction Sign, B, XG20-2A (End Road Work)(36"x18")
- (E) Construction Sign, A, XW20-4 (One Lane Road Ahead)(36"x36")
- (F) Construction Sign, A, XW3-3 (Signal Ahead)(36"x36")
- (G) Construction Sign, B, R10-6 (Stop Here On Red)(24"x36")
- (H) Construction Sign, B, R3-17 (Bike Lane)(24"x18")
Construction Sign, B, R3-17bP (ENDS Plaque)(24"x8")
Construction Sign, B, R3-17aP (AHEAD Plaque)(24"x8")
- (I) Construction Sign, A, W24-1 (Double Reverse Curve)(36"x36")
- (J) Construction Sign, B, R1-1 (Stop)(18"x18")
Construction Sign, B, R3-17 (Bike Lane)(24"x18")
Construction Sign, B, R3-17bP (ENDS Plaque)(24"x8")
- (K) Construction Sign, B, R3-17 (Bike Lane)(24"x18")
Construction Sign, B, R3-17bP (ENDS Plaque)(24"x8")
- (M) Construction Sign, B, R2-1 (Speed Limit 15mph)(24"x30")
- (8) Temporary Transverse Pavement Marking, Removable, Solid, White, 24"
- (9) Temporary Pavement Marking, Removable, Solid, White, 4"
- (10) Temporary Pavement Marking, Removable, Dotted, White, 4" (2' Line, 6' Gap)
- (11) Temporary Pavement Marking, Removable, Solid, Black, 6"

- Standard Drum (25' Spacing)
- ↑ Direction Of Traffic
- ≡ Std. Barricade
- TT Construction Sign
- ⊗ Construction Warning Light, Type A

- Work Site
- Vehicle Detection Area

SIGNAL PHASING DIAGRAM

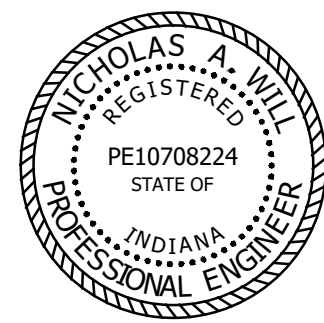


SIGNAL LEGEND

- (1) Portable Signal

NOTES:

- All stations are described from Line "A" unless noted otherwise.
- 100' typical MOT sign spacing unless otherwise shown.
- Existing signs that are in conflict with MOT shall be covered.
- The Contractor shall maintain temporary access to all properties during construction.



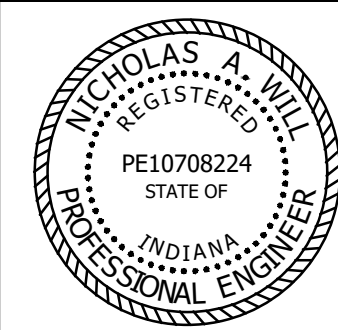
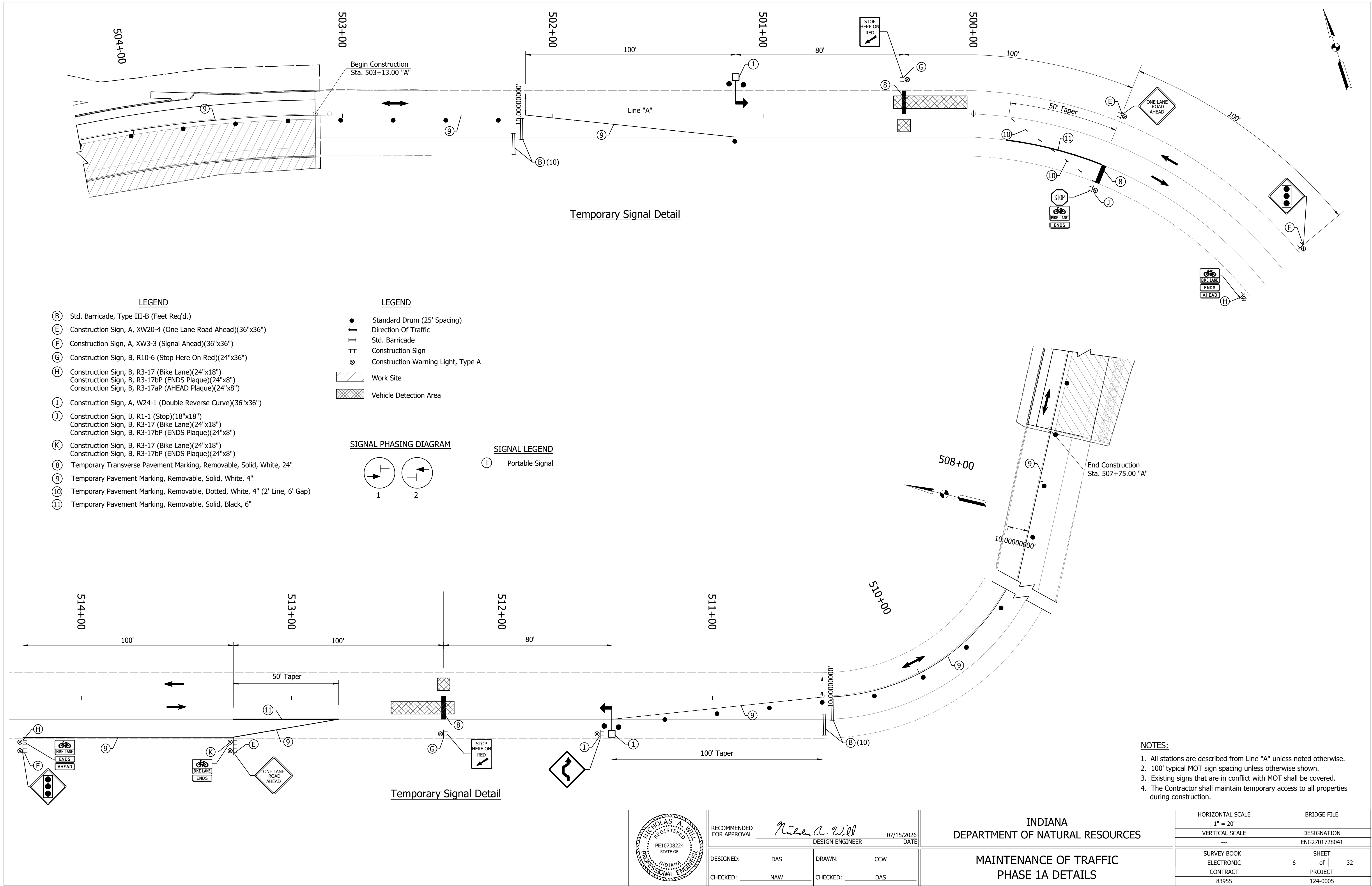
RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	07/15/2026	DATE
DESIGNED:	DAS	DRAWN:	LLF	
CHECKED:	NAW	CHECKED:	DAS	

INDIANA
DEPARTMENT OF NATURAL RESOURCES

MAINTENANCE OF TRAFFIC
PHASE 1A & 1B OVERALL SIGNAGE

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	
VERTICAL SCALE	DESIGNATION
---	ENG2701728041
SURVEY BOOK	SHEET
ELECTRONIC	5 of 32
CONTRACT	PROJECT
83955	124-0005

Date: Jul 10, 2026, 9:40am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\DOT\MOT\Phase 1 Details.dwg - (MOT Phase 1 Details)

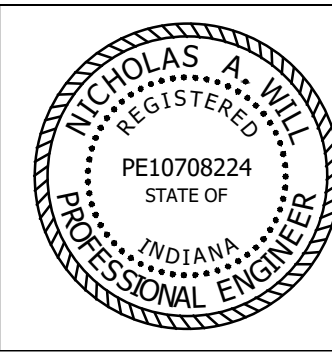
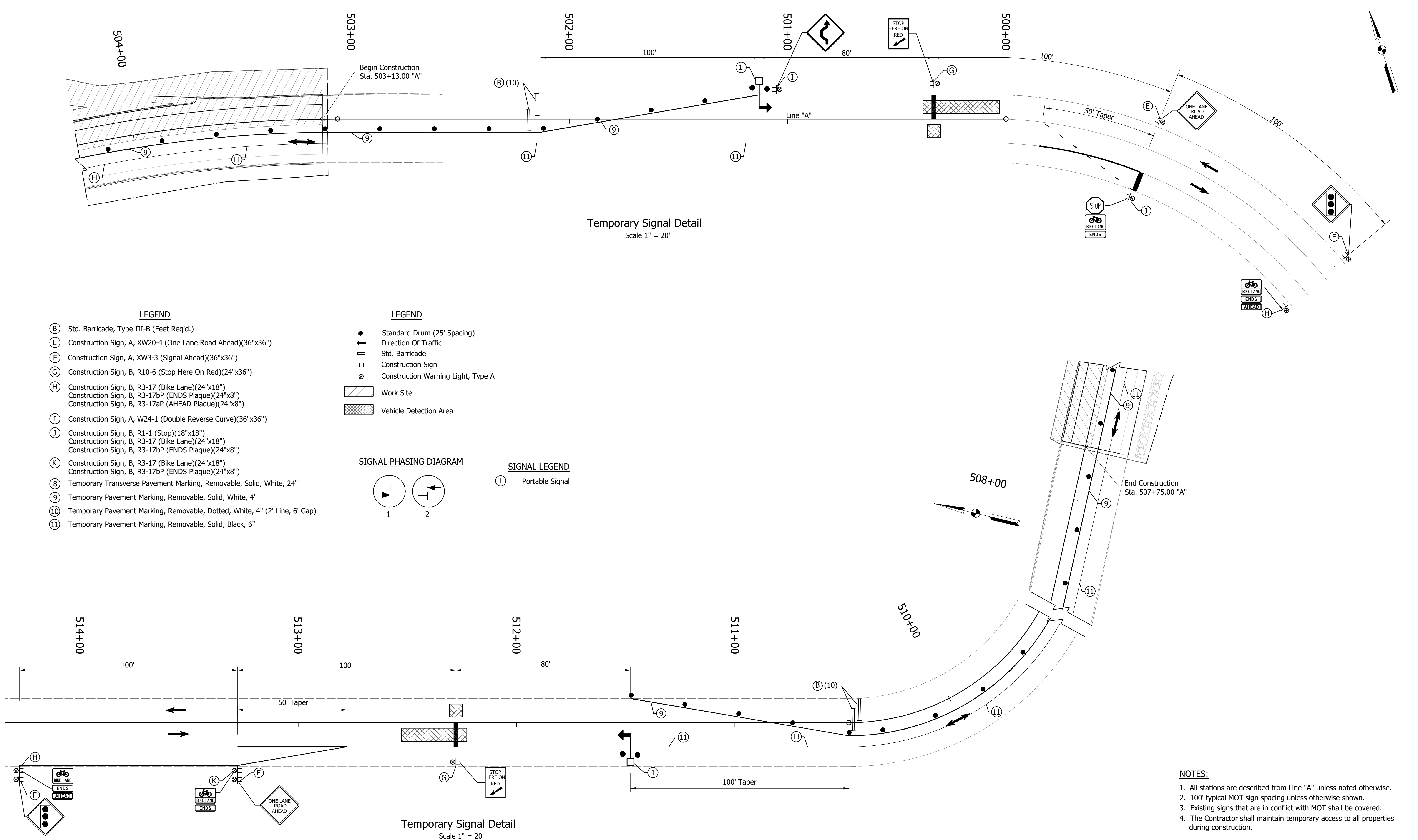


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	07/15/2026	DATE
DESIGNED:	DAS	DRAWN:	CCW	
CHECKED:	NAW	CHECKED:	DAS	

INDIANA DEPARTMENT OF NATURAL RESOURCES
MAINTENANCE OF TRAFFIC PHASE 1A DETAILS

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE ---	DESIGNATION ENG2701728041
SURVEY BOOK ELECTRONIC	SHEET 6 of 32
CONTRACT 83955	PROJECT 124-0005

Date: Jul 10, 2026, 9:36am User Name: Lorie
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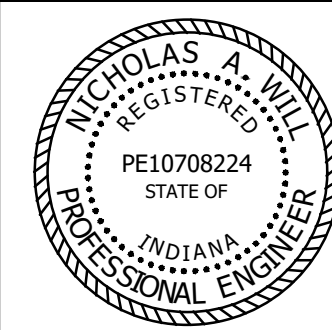
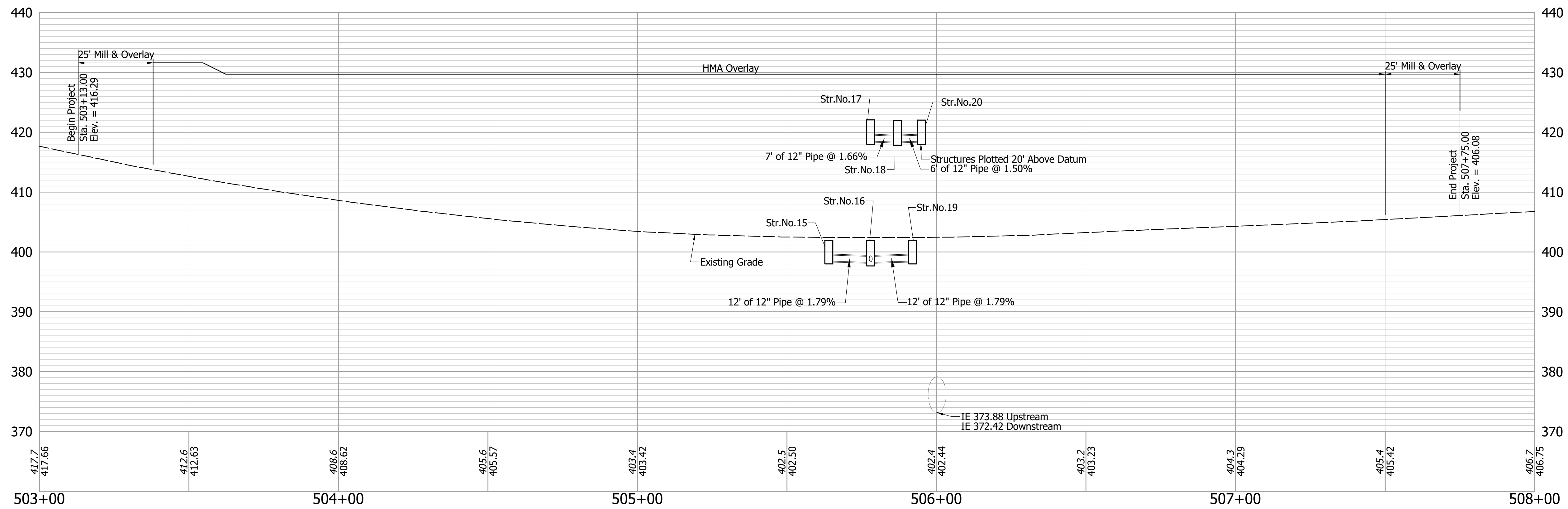
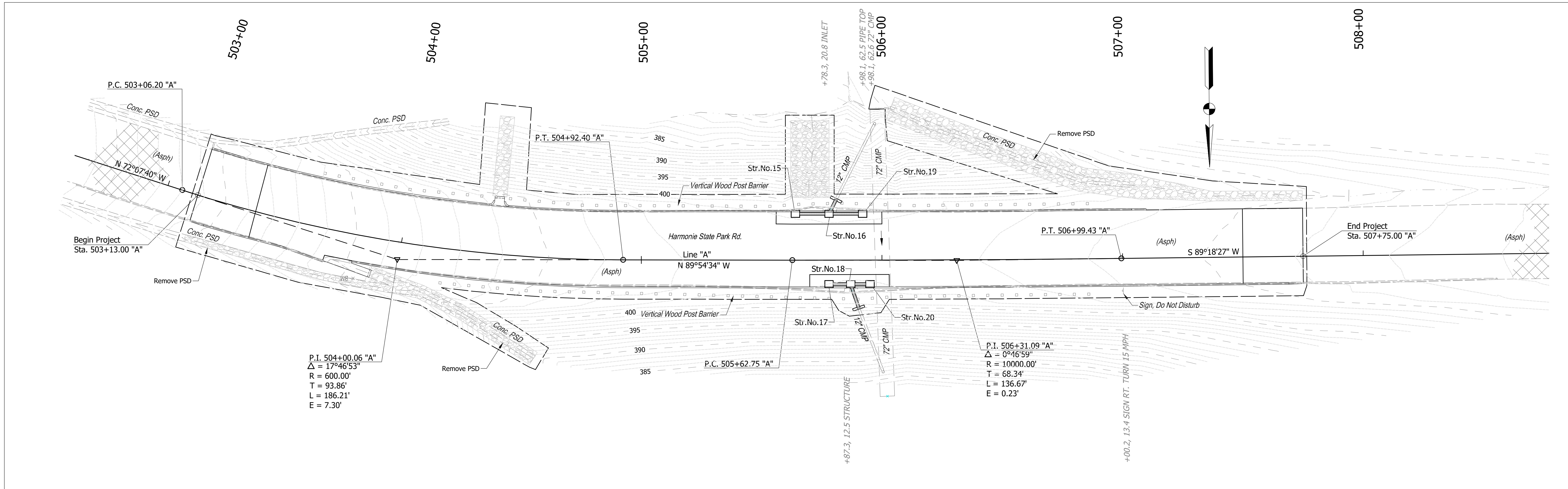


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	07/15/2026	DATE
DESIGNED:	DAS	DRAWN:	CCW	
CHECKED:	NAW	CHECKED:	DAS	

INDIANA DEPARTMENT OF NATURAL RESOURCES
MAINTENANCE OF TRAFFIC PHASE 1B DETAILS

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE ---	DESIGNATION ENG2701728041
SURVEY BOOK ELECTRONIC	SHEET 7 of 32
CONTRACT 83955	PROJECT 124-0005

Date: Jul 10, 2026, 9:36am User Name: Lorie
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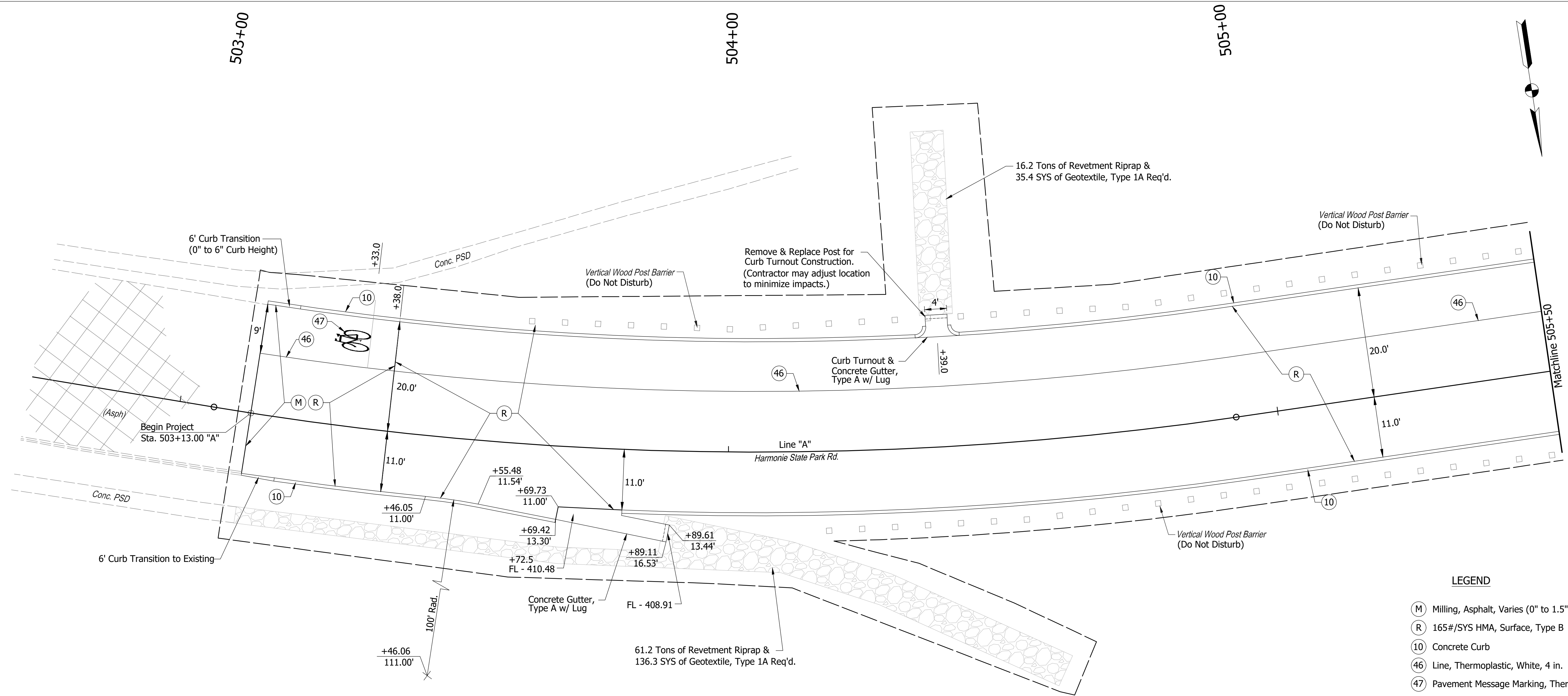


RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
		Nicholas A. Will		07/15/2026	
DESIGNED:	DAS	DRAWN:	CCW		
CHECKED:	NAW	CHECKED:	DAS		

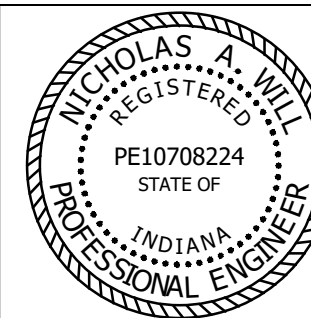
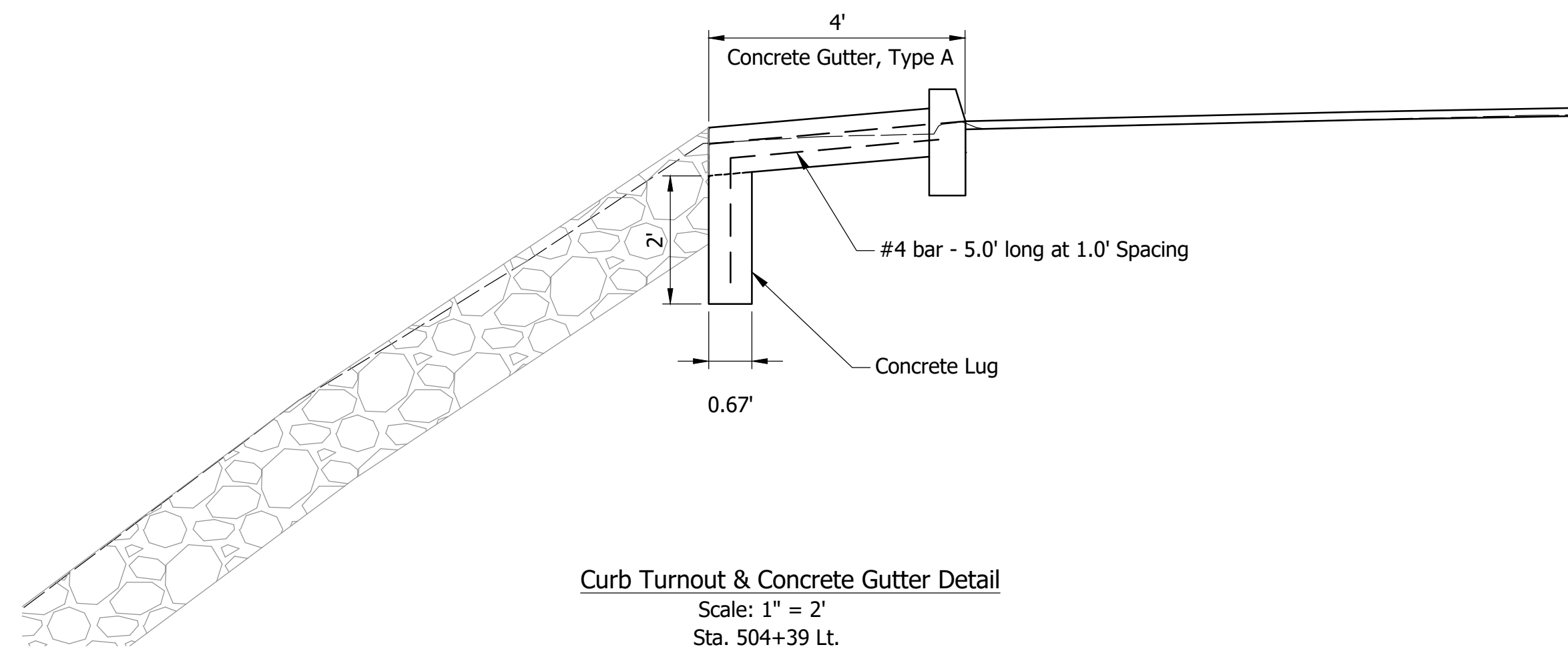
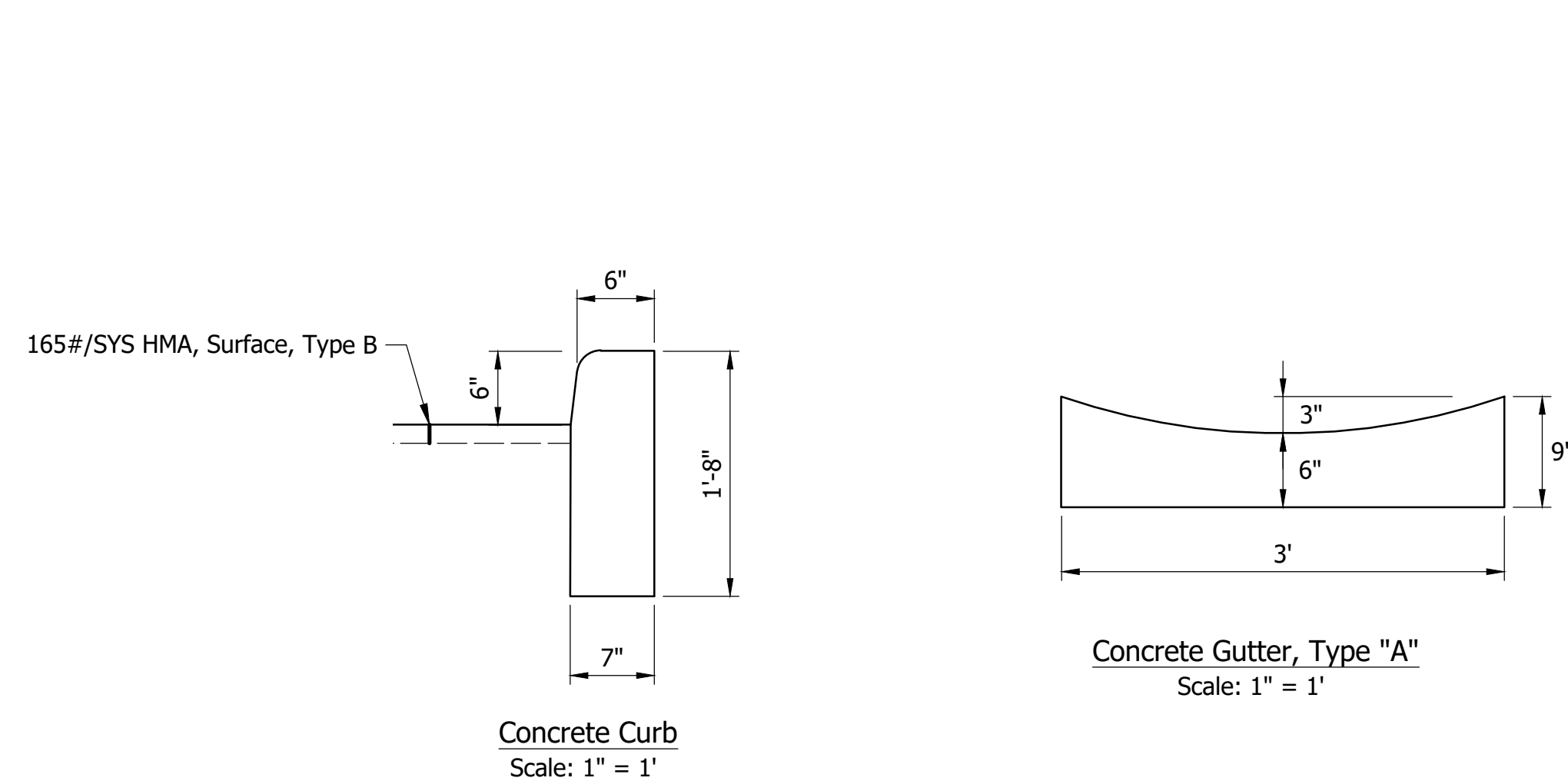
INDIANA DEPARTMENT OF NATURAL RESOURCES	
PLAN & PROFILE STA. 503+00 TO STA. 507+00 "A"	

HORIZONTAL SCALE 1" = 20'		BRIDGE FILE	
VERTICAL SCALE 1" = 10'		DESIGNATION ENG2701728041	
SURVEY BOOK ELECTRONIC		SHEET 8 of 32	
CONTRACT 83955		PROJECT 124-0005	

Date: Jul 10, 2026, 9:40am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\RD2_Constr-Details Area2.dwg - CD Area2 (1)



- LEGEND
- (M) Milling, Asphalt, Varies (0" to 1.5")
 - (R) 165#/SYS HMA, Surface, Type B
 - (10) Concrete Curb
 - (46) Line, Thermoplastic, White, 4 in.
 - (47) Pavement Message Marking, Thermoplastic, Bike Symbol



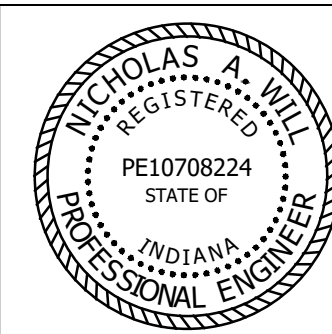
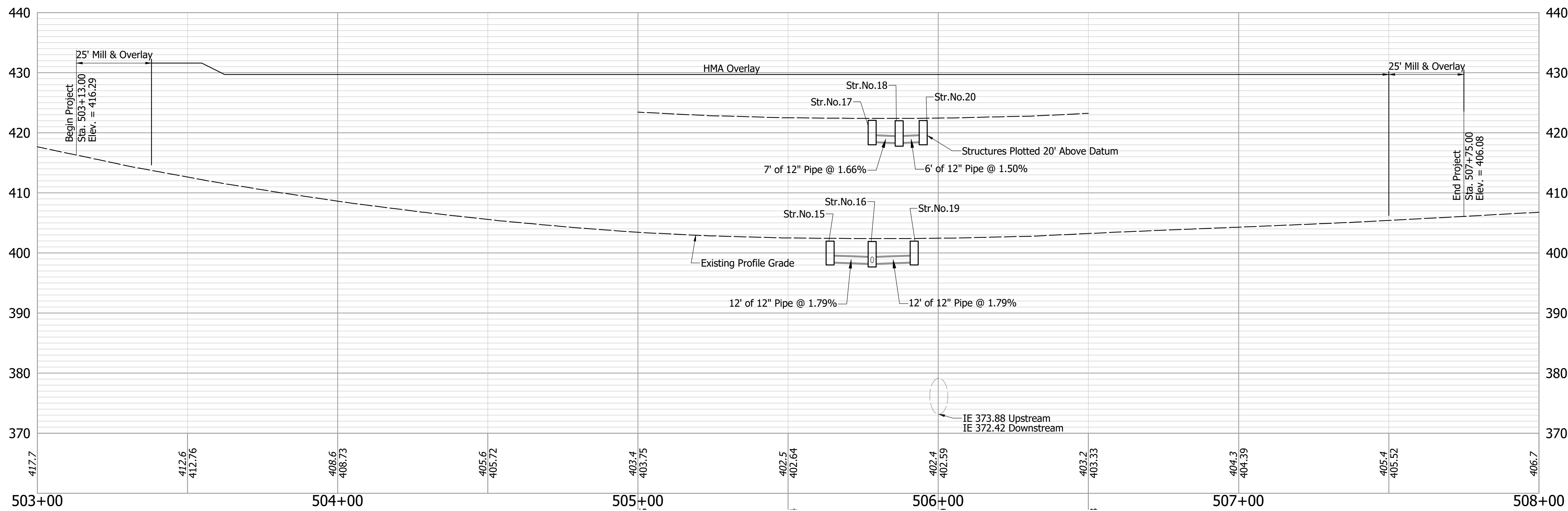
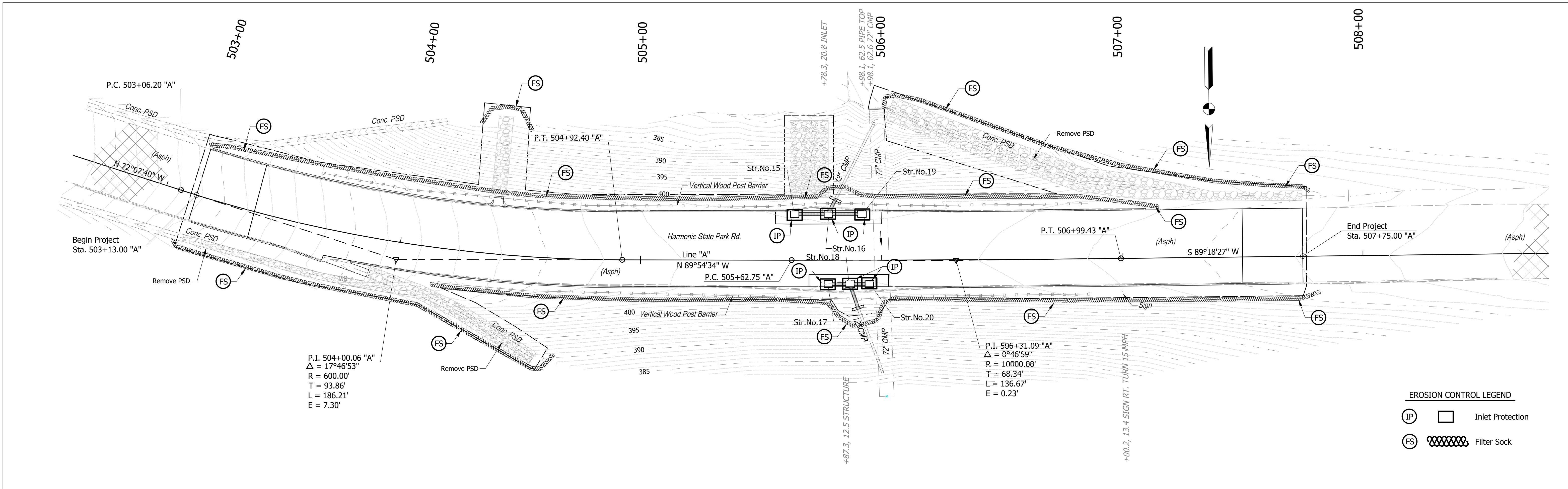
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	DESIGN ENGINEER	DATE
DESIGNED: _____	DAS	DRAWN: _____
		CCW
CHECKED: _____	NAW	CHECKED: _____
		DAS

INDIANA
DEPARTMENT OF NATURAL RESOURCES

CONSTRUCTION DETAILS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE		
1" = 10'			
VERTICAL SCALE	DESIGNATION		
---	ENG2701728041		
SURVEY BOOK	SHEET		
ELECTRONIC	9	of	32
CONTRACT	PROJECT		
83955	124-0005		

Date: Jul 10, 2026, 9:36am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\162_ESC_Plan & Details.dwg (ESC Plan 503+00 to 507+00)



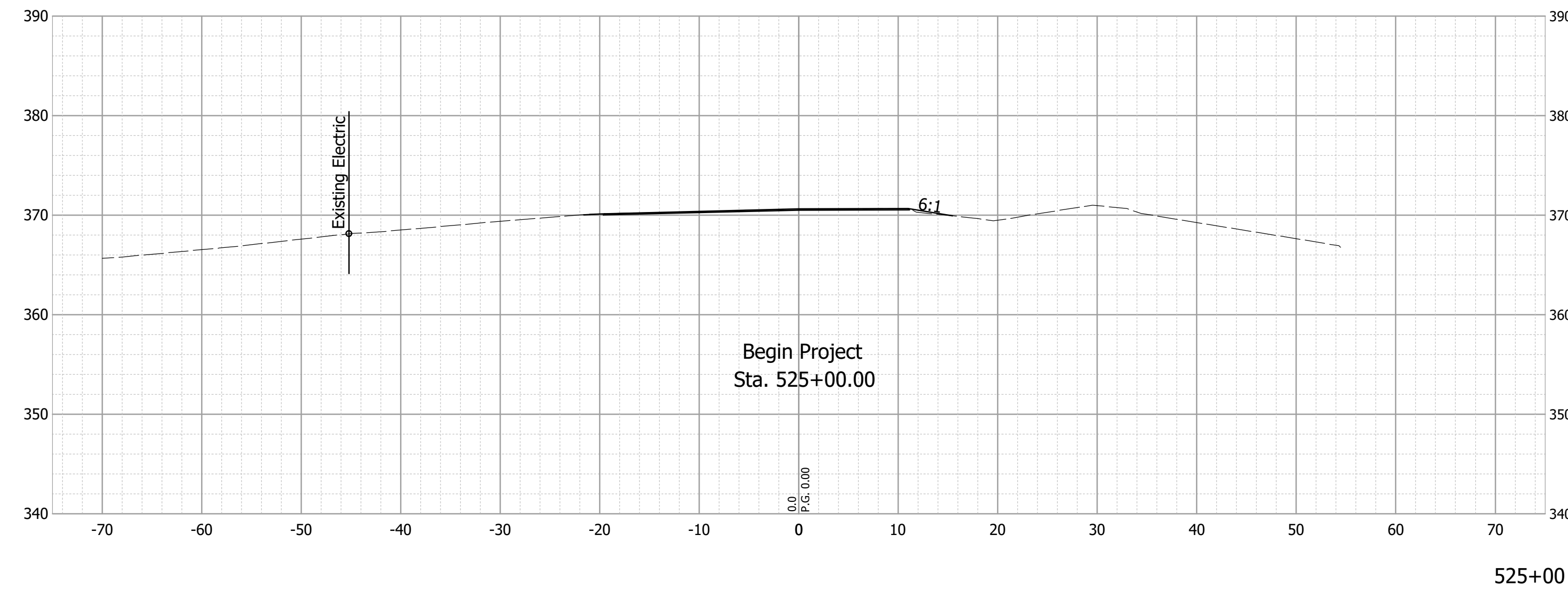
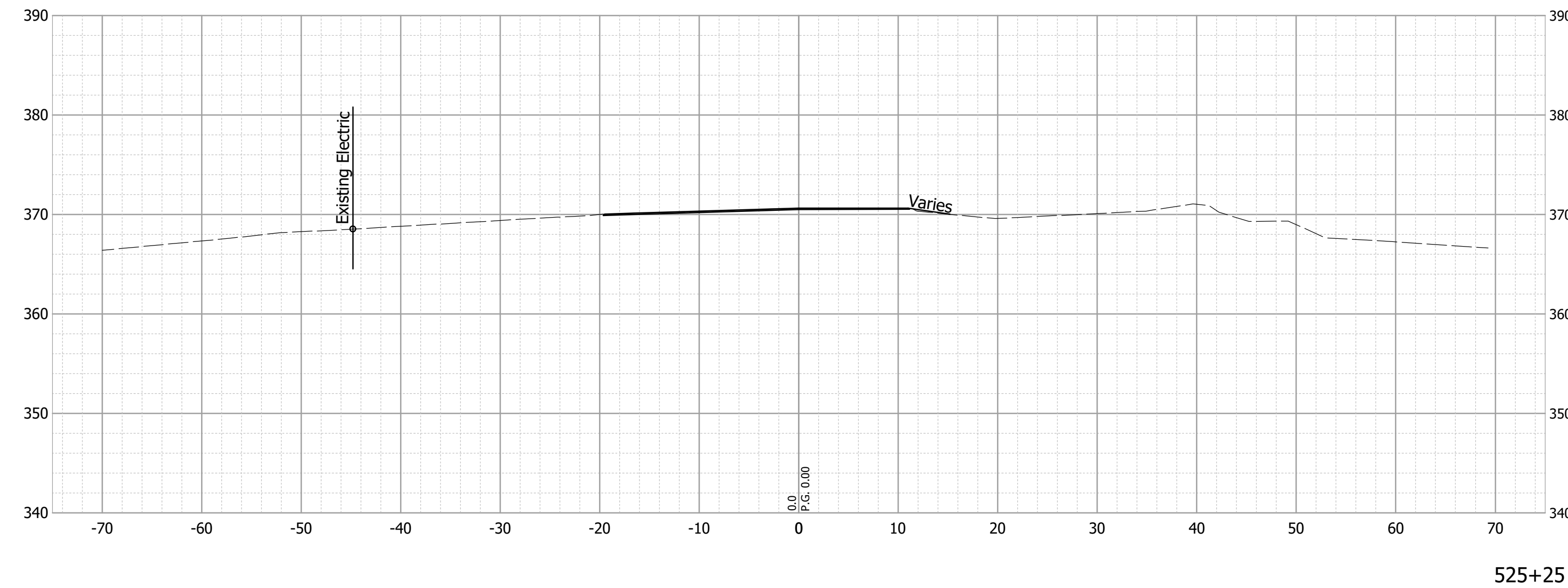
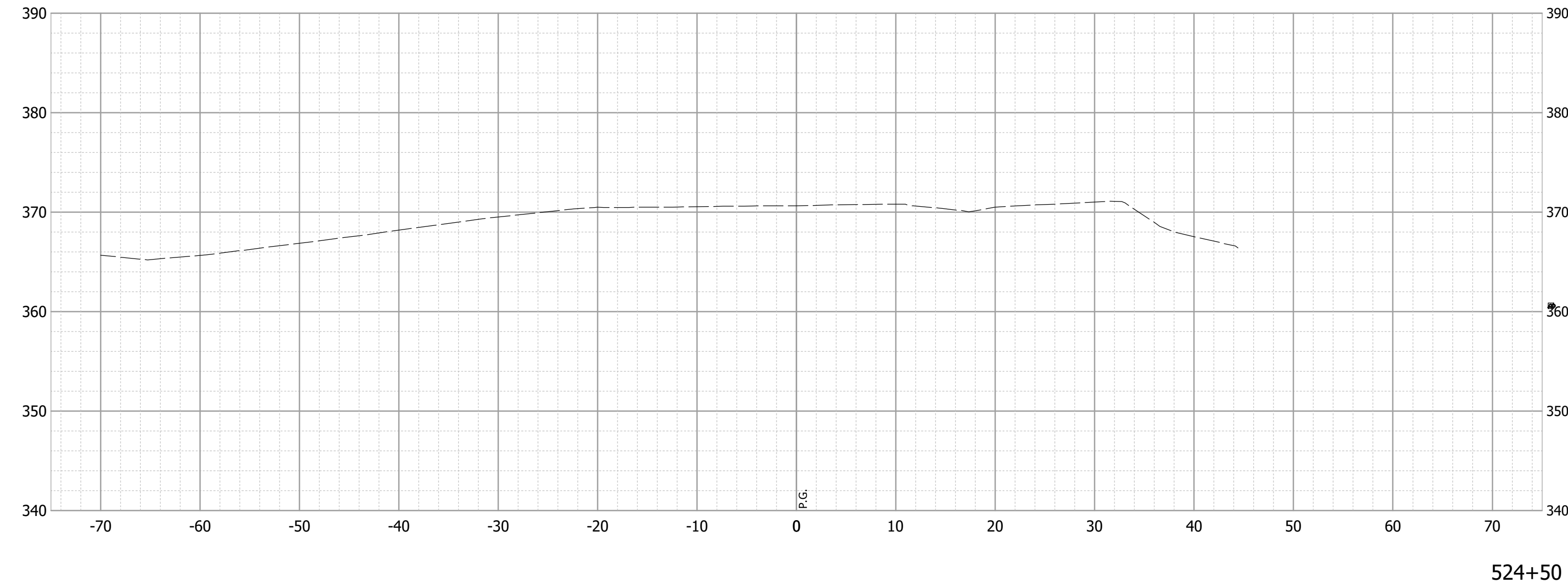
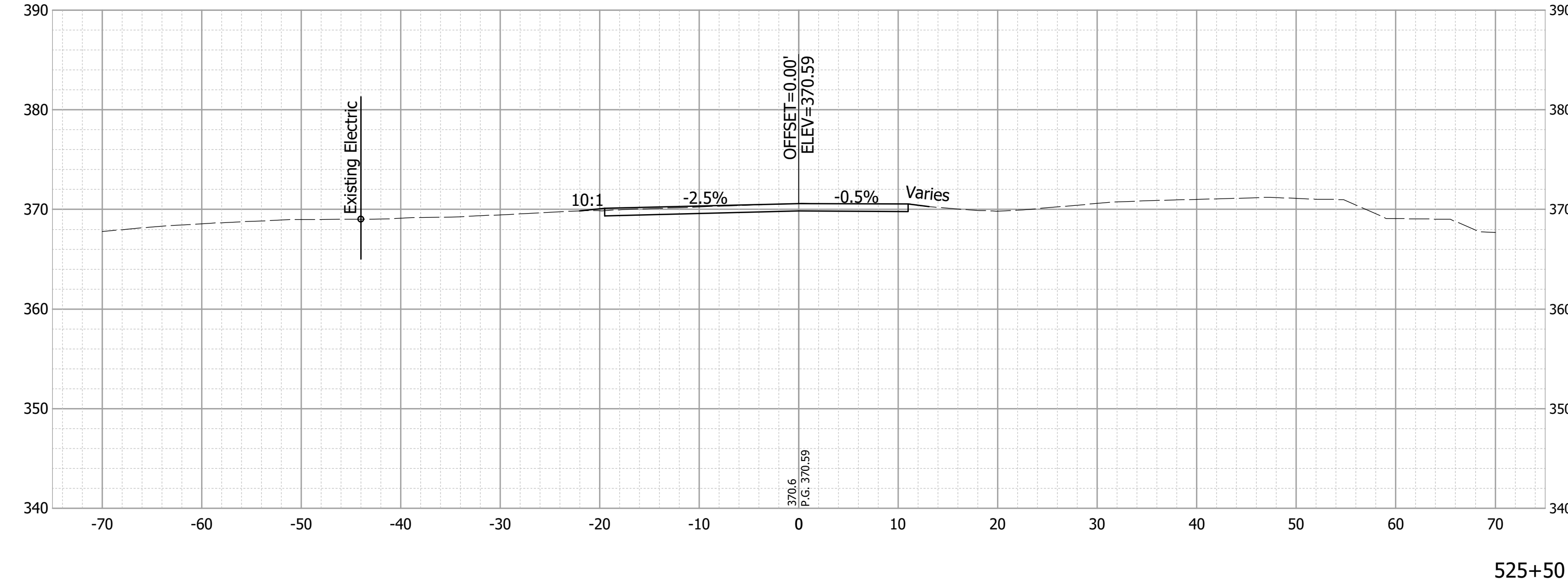
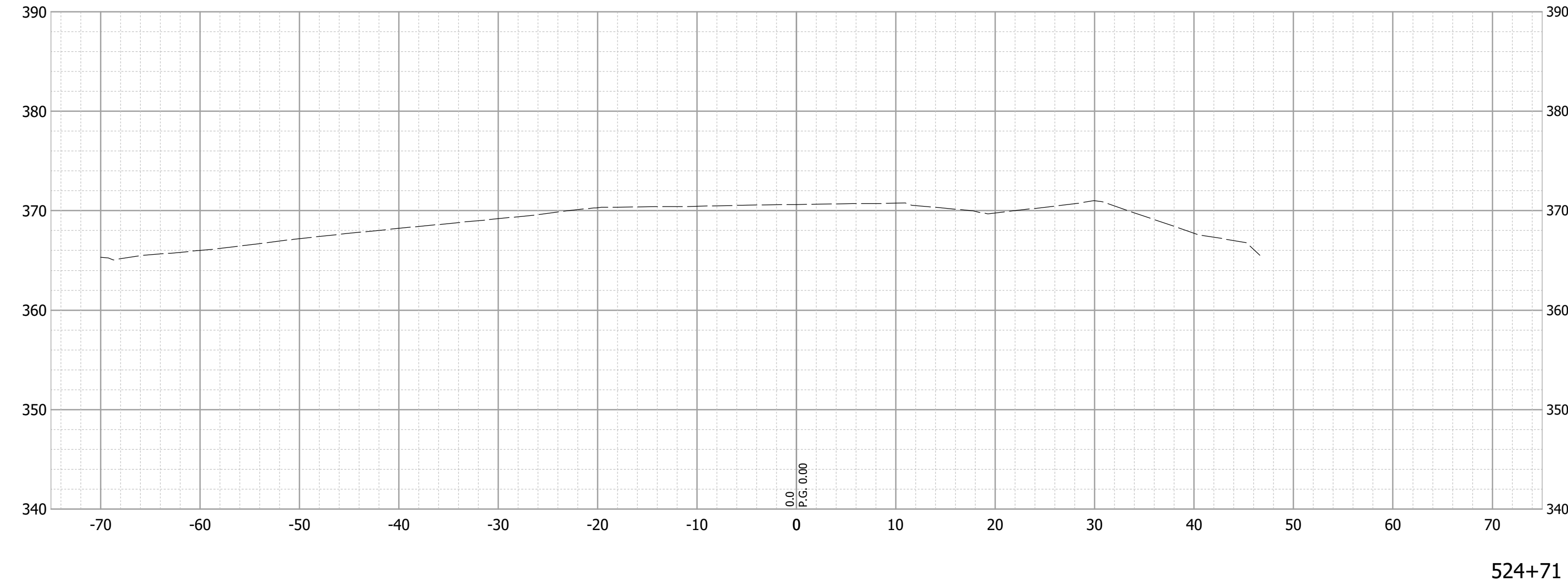
RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	07/15/2026	DATE
DESIGNED:	DAS	DRAWN:	CCW	
CHECKED:	NAW	CHECKED:	DAS	

INDIANA
DEPARTMENT OF NATURAL RESOURCES

EROSION & SEDIMENT CONTROL PLAN
STA. 503+00 TO STA. 507+00 "A"

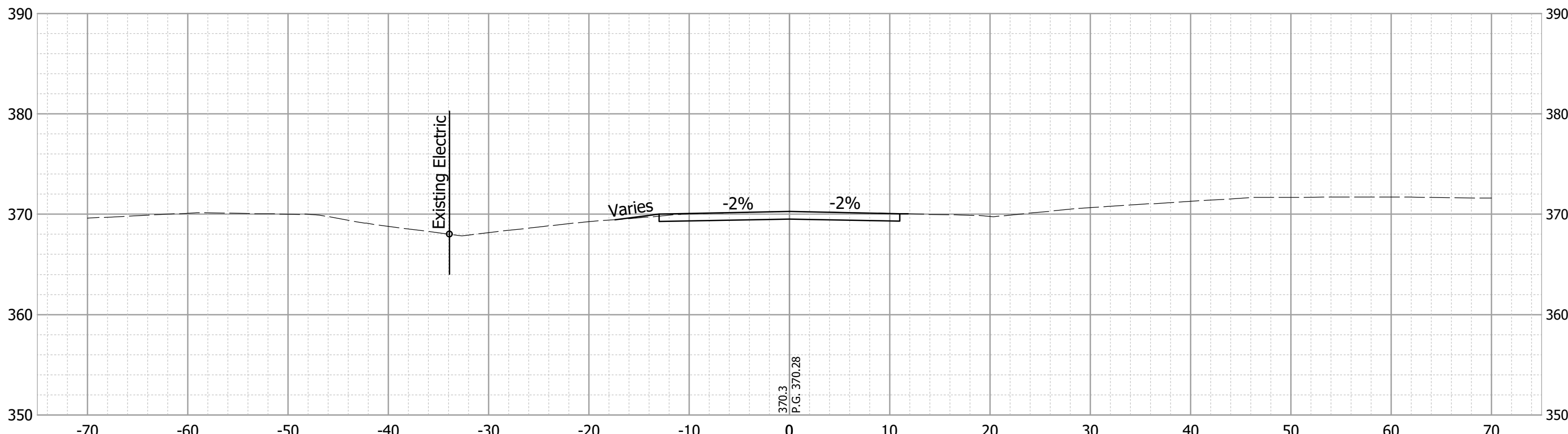
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1" = 20'			
VERTICAL SCALE	DESIGNATION		
1" = 10'	ENG2701728041		
SURVEY BOOK	SHEET		
ELECTRONIC	11	of	32
CONTRACT	PROJECT		
83955	124-0005		

Date: Jul 10, 2026, 9:37am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\RD_Xsects A.dwg - (1/)

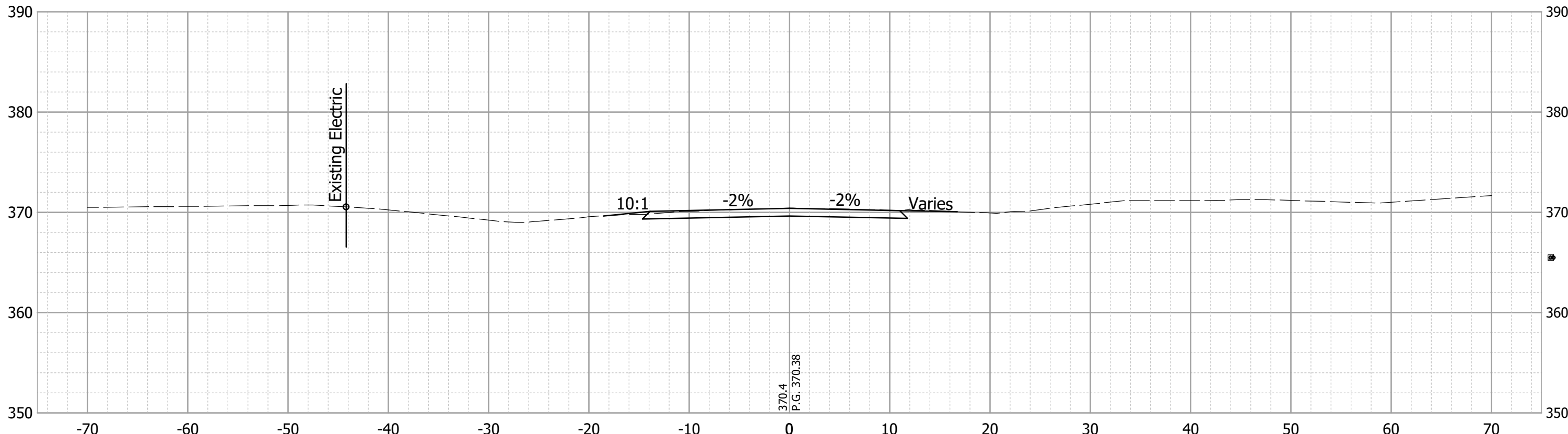


RECOMMENDED FOR APPROVAL DESIGN ENGINEER 07/15/2026 DATE		INDIANA DEPARTMENT OF NATURAL RESOURCES		HORIZONTAL SCALE		BRIDGE FILE			
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				VERTICAL SCALE		DESIGNATION			
				---		ENG2701728041			
DESIGNED: DAS		DRAWN: CCW		CROSS SECTIONS LINE "A"		SURVEY BOOK		SHEET	
		ELECTRONIC				12	of	32	
CHECKED: NAW		CHECKED: DAS				CONTRACT		PROJECT	
				83955		124-0005			

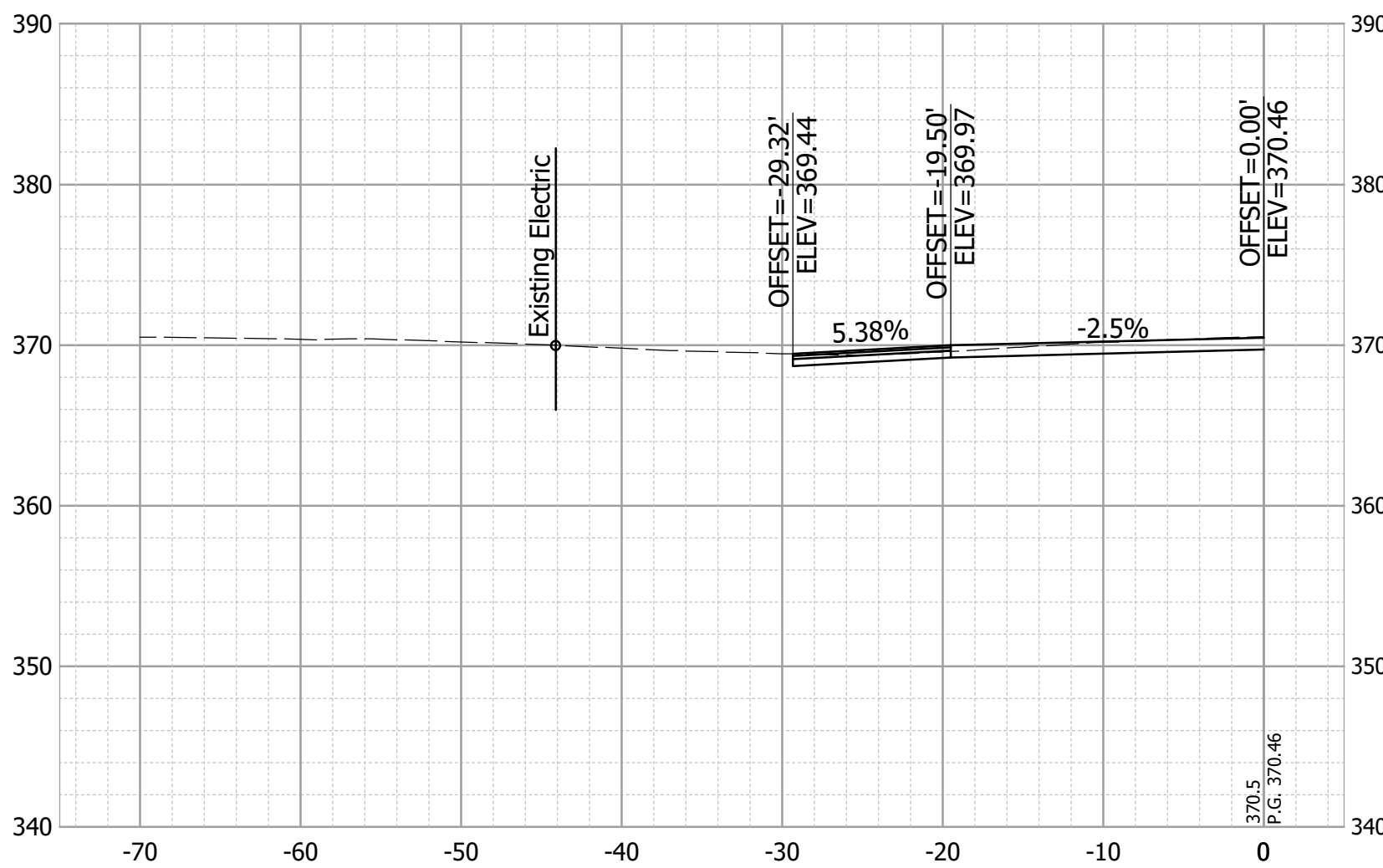
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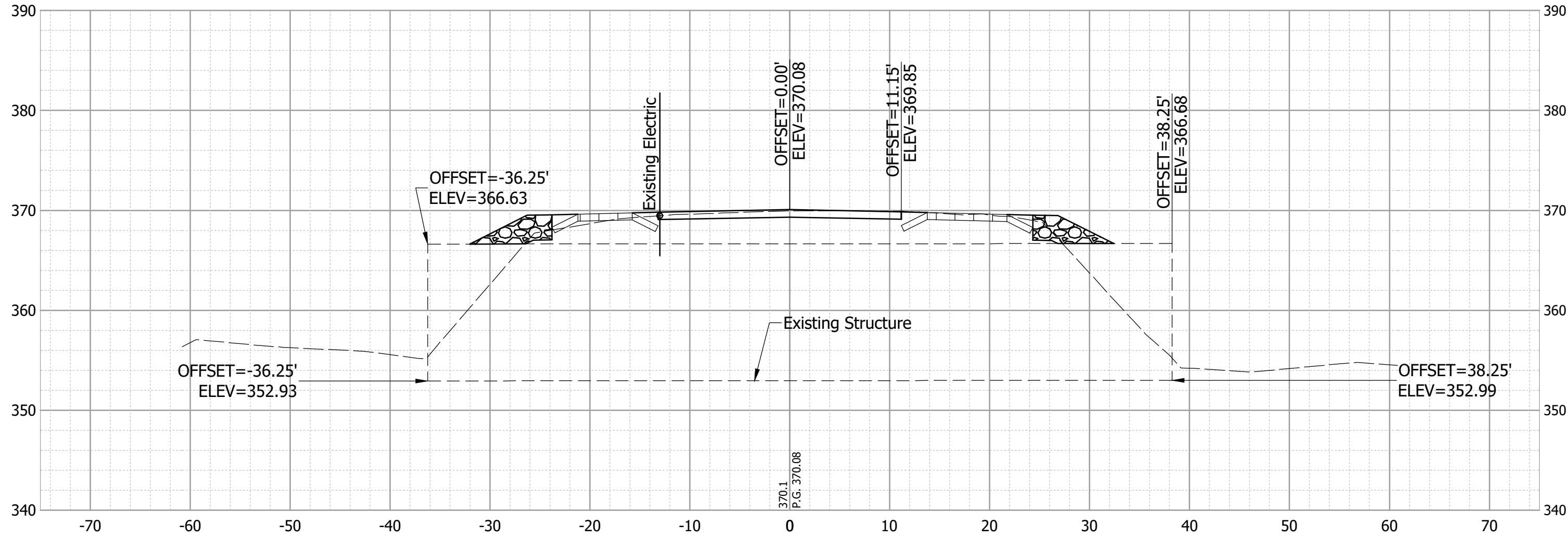
526+25



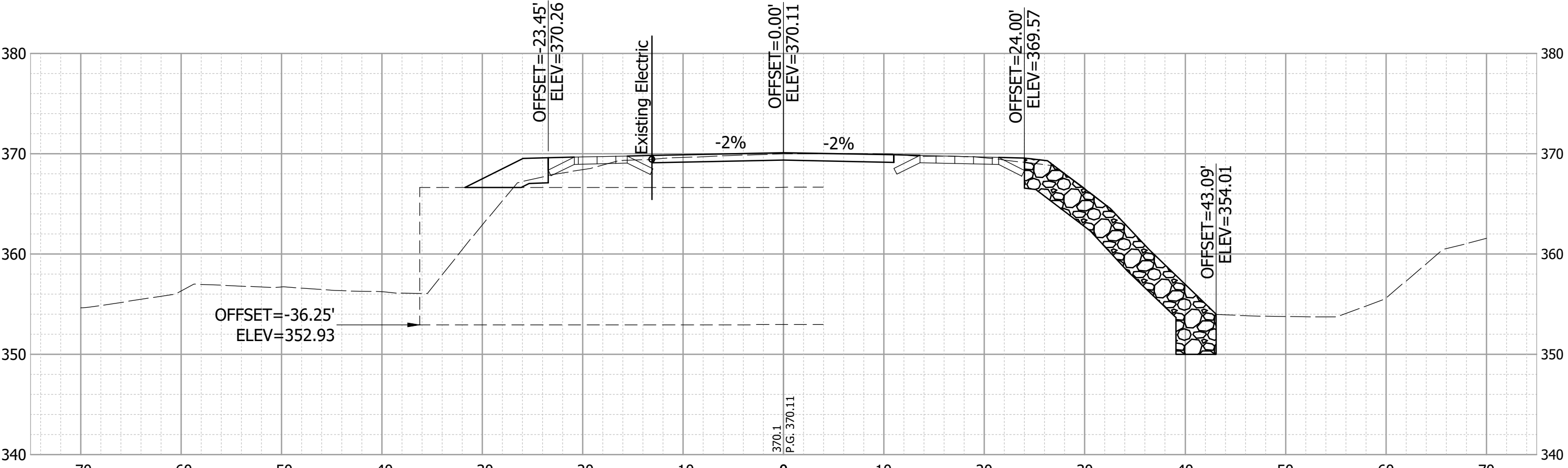
526+00



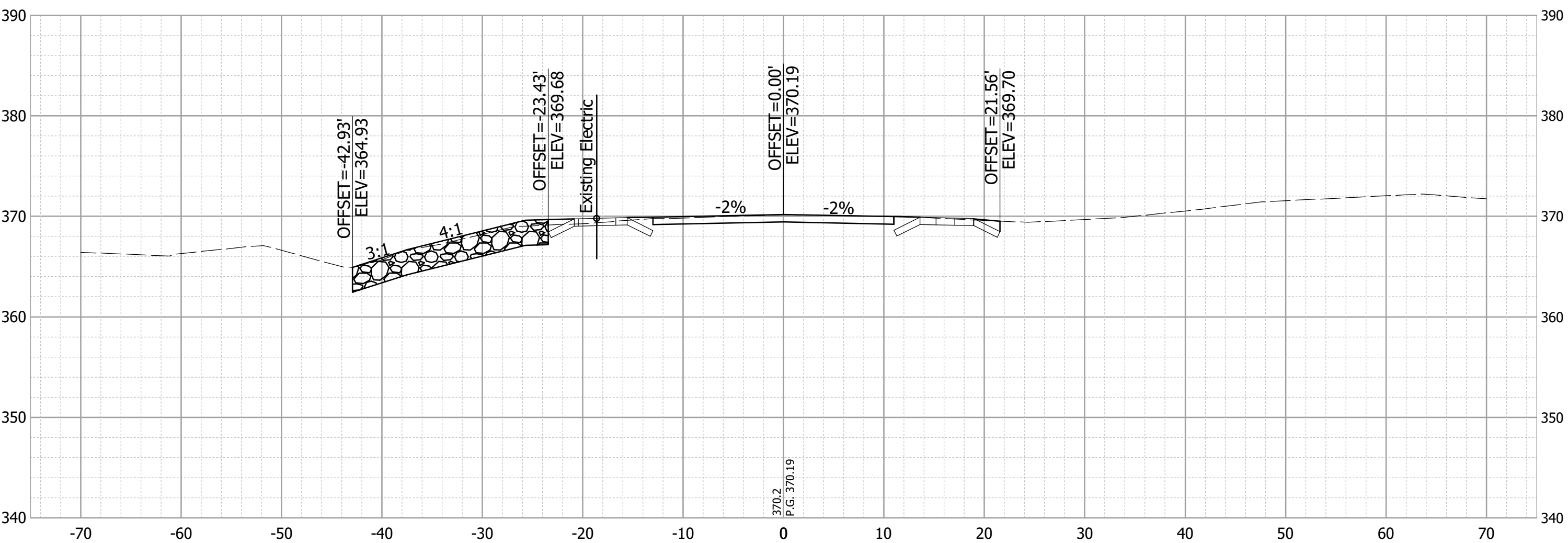
525+81
Drive Lt.



526+84.48
RNG/PROFILE - CL of Str.



526+75



526+50

RECOMMENDED
FOR APPROVAL _____ 07/15/2026
DESIGN ENGINEER DATE

DESIGNED: _____ DAS _____ DRAWN: _____ CCW _____

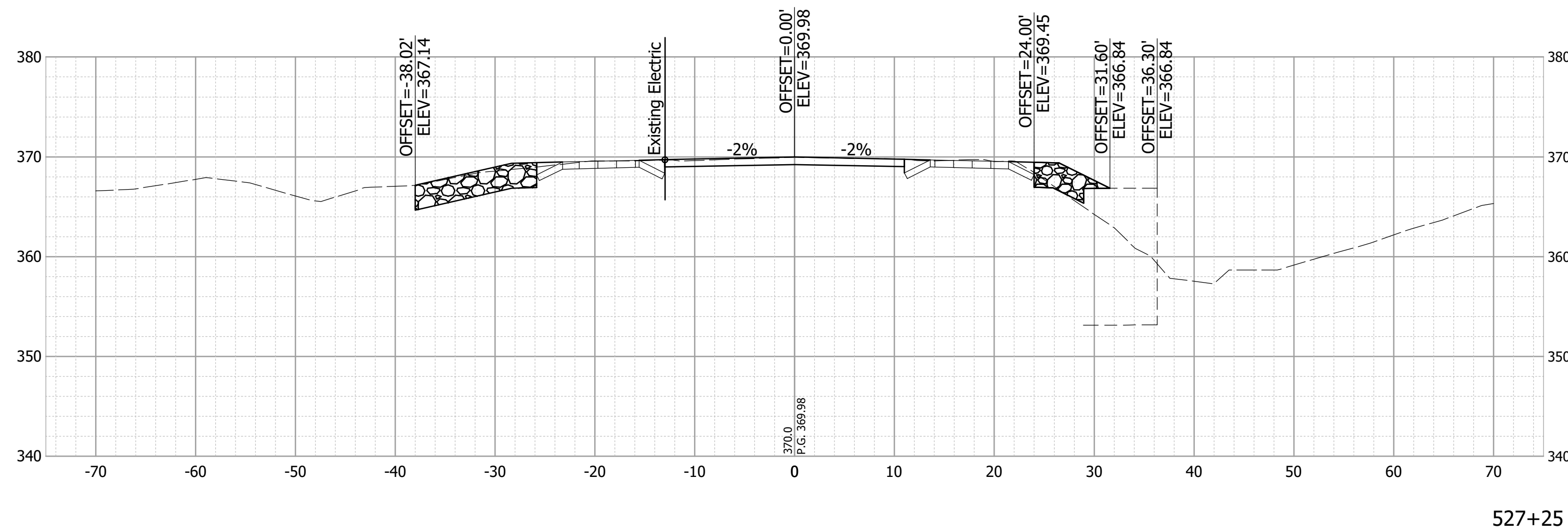
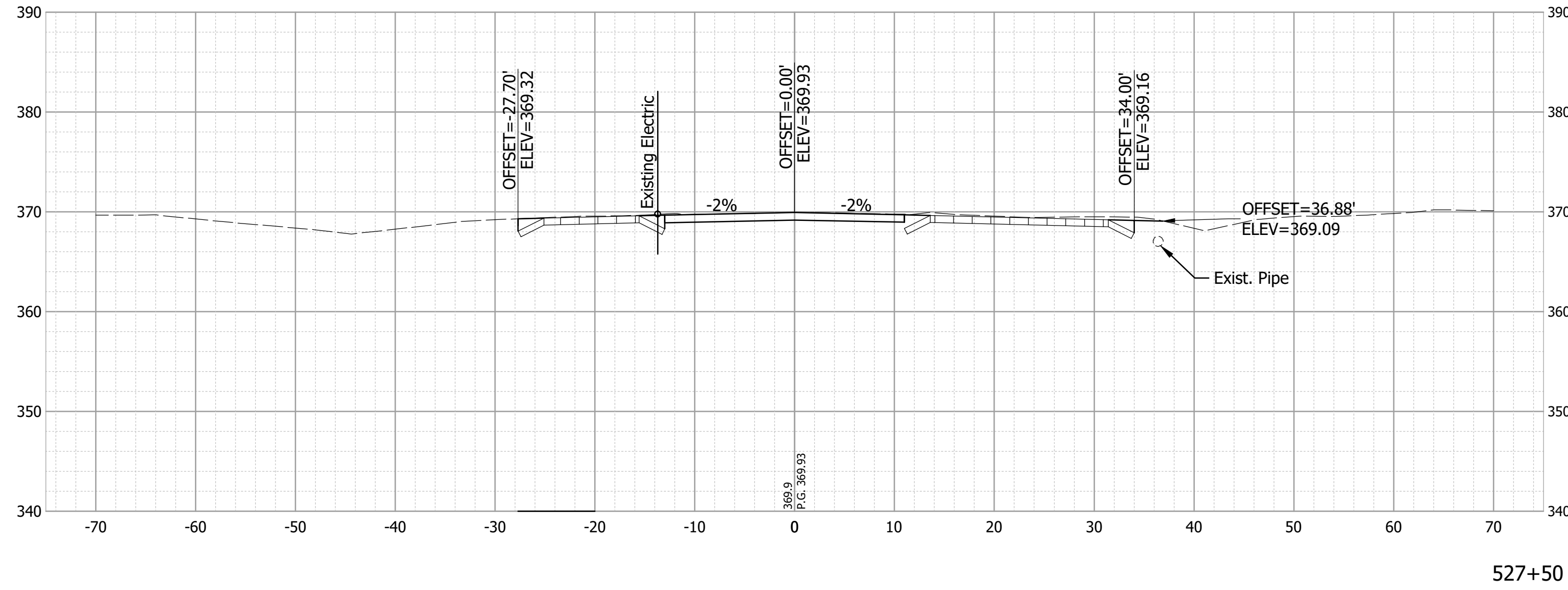
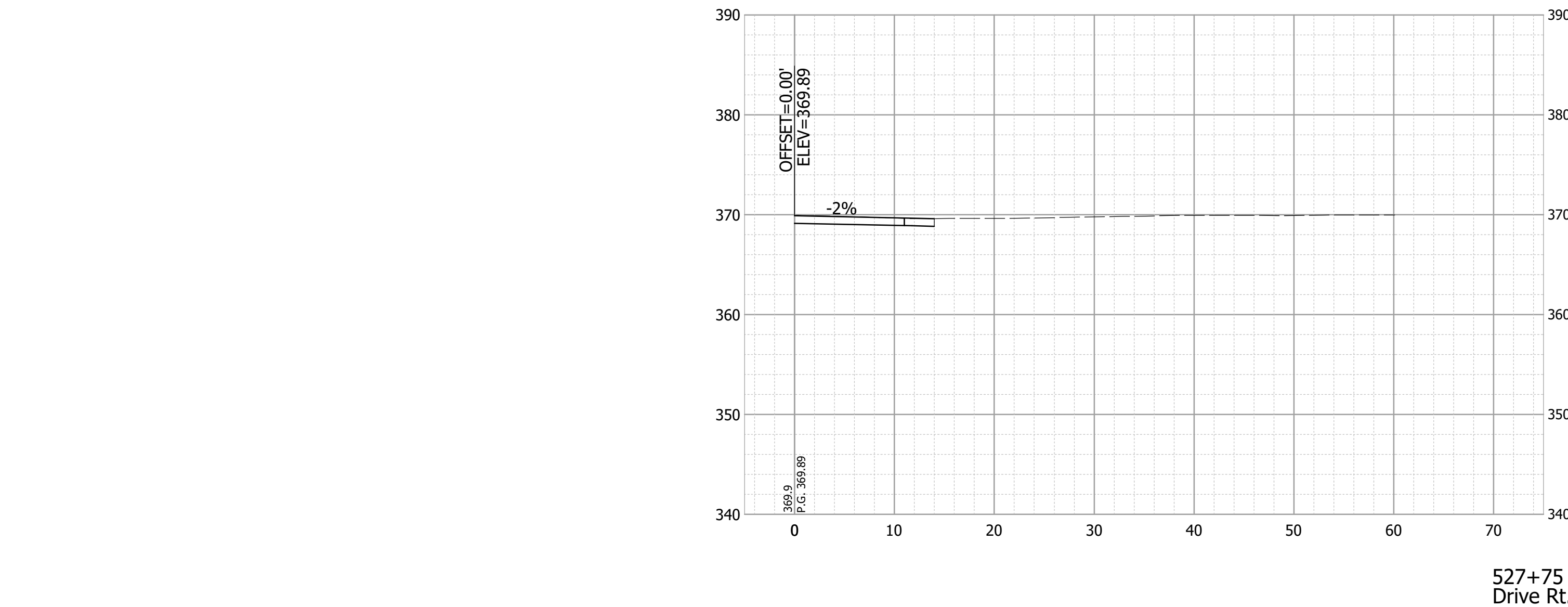
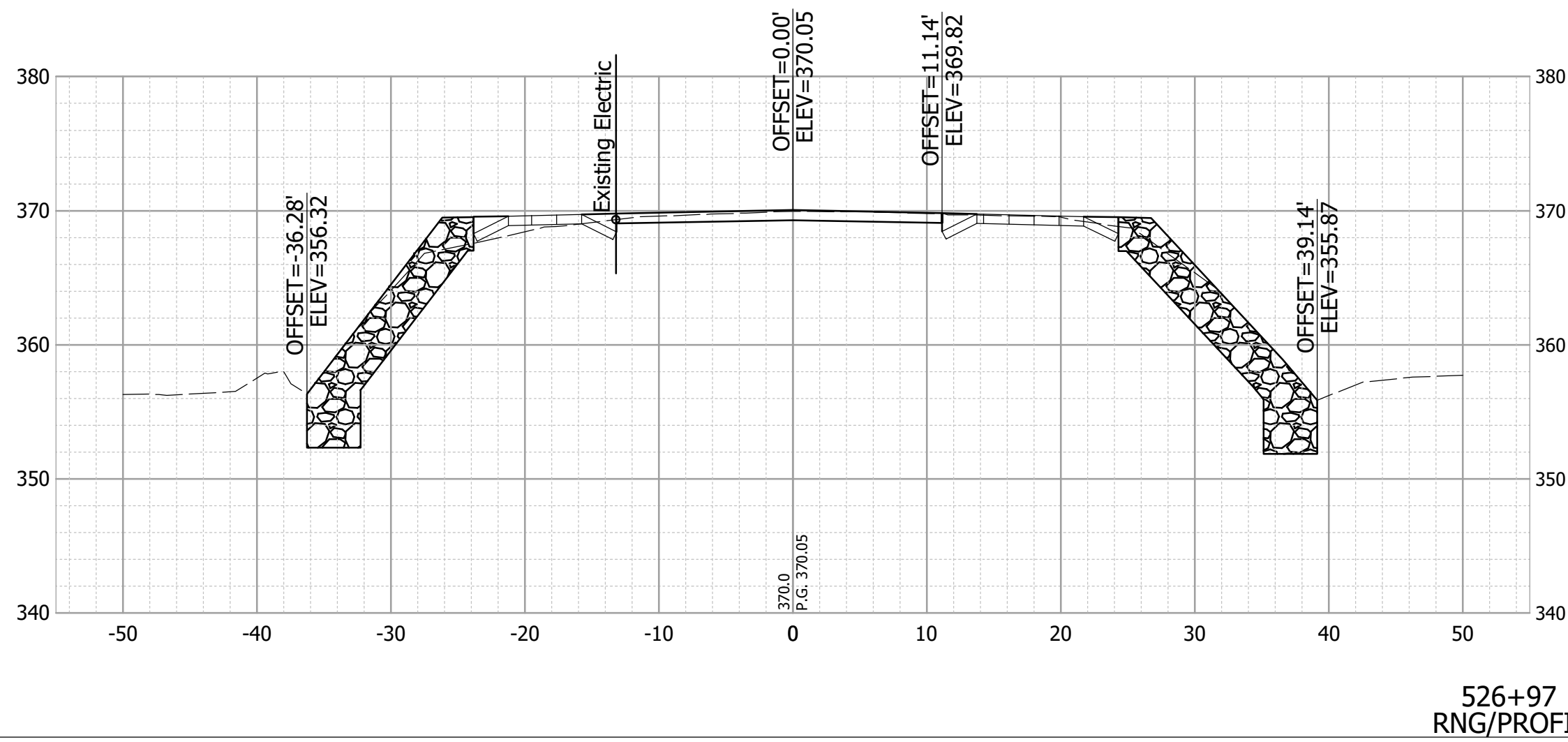
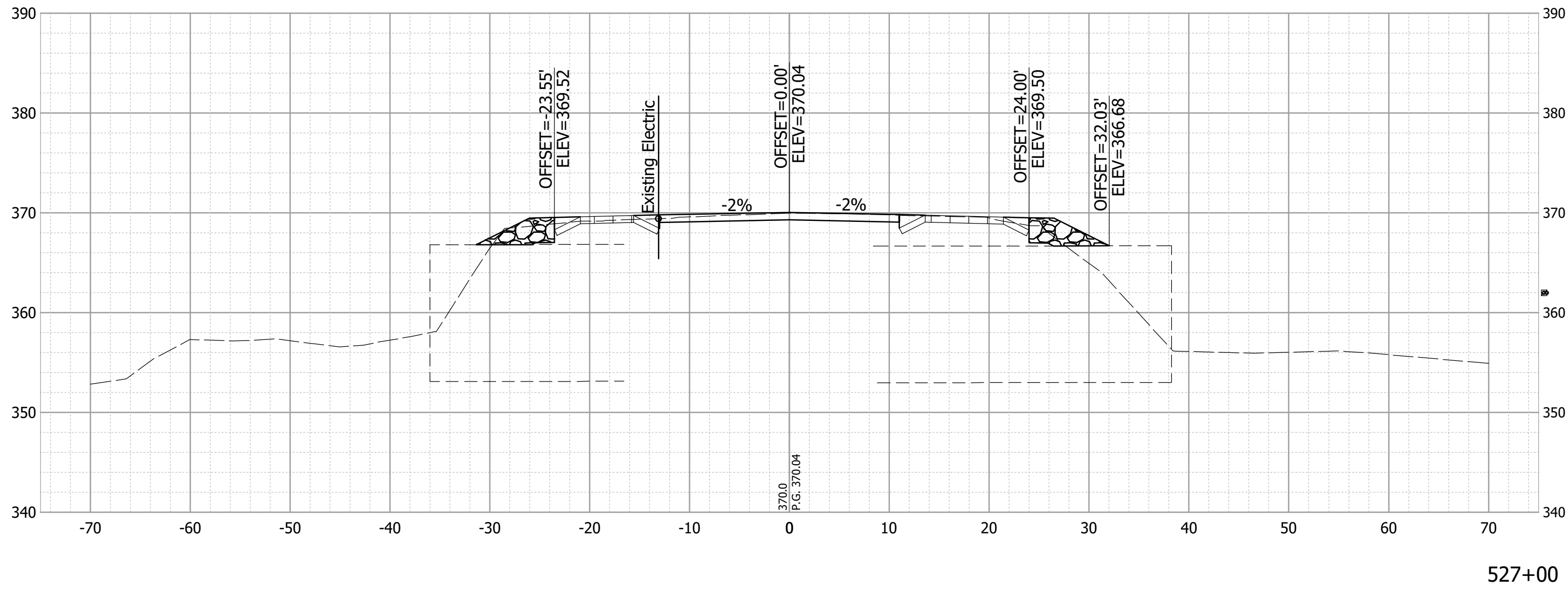
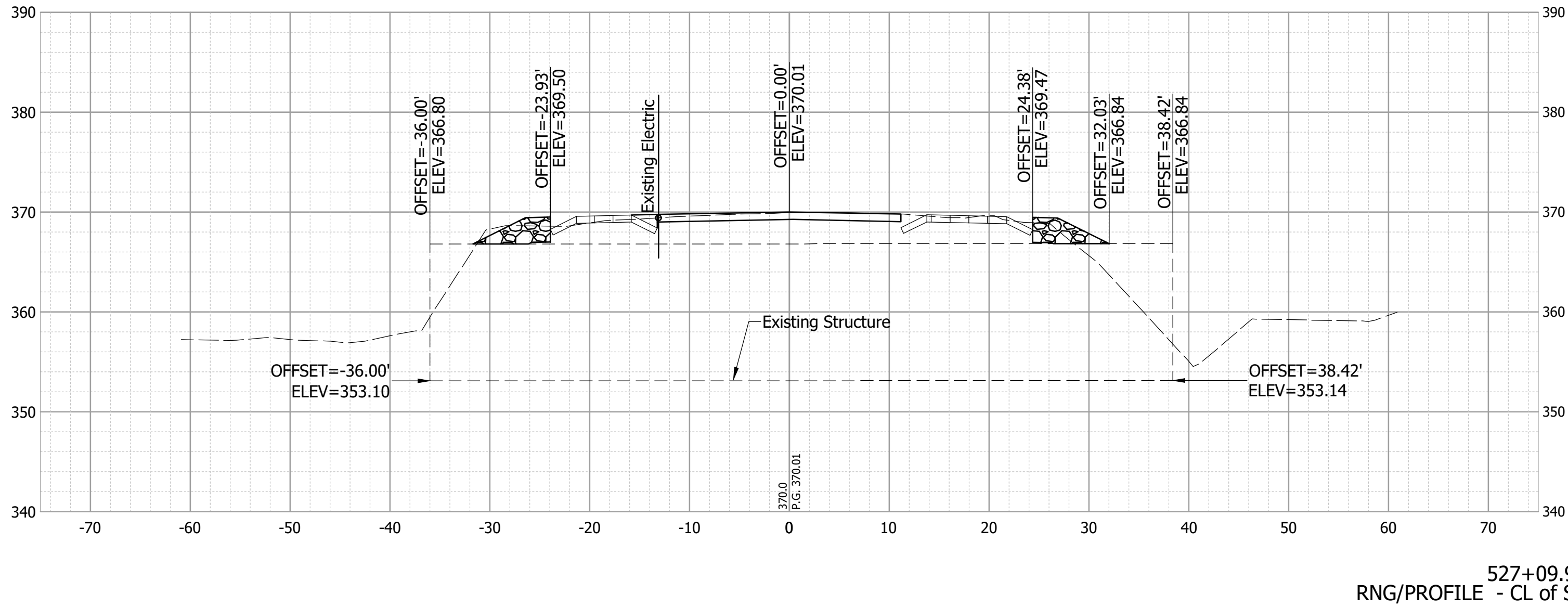
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INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "A"

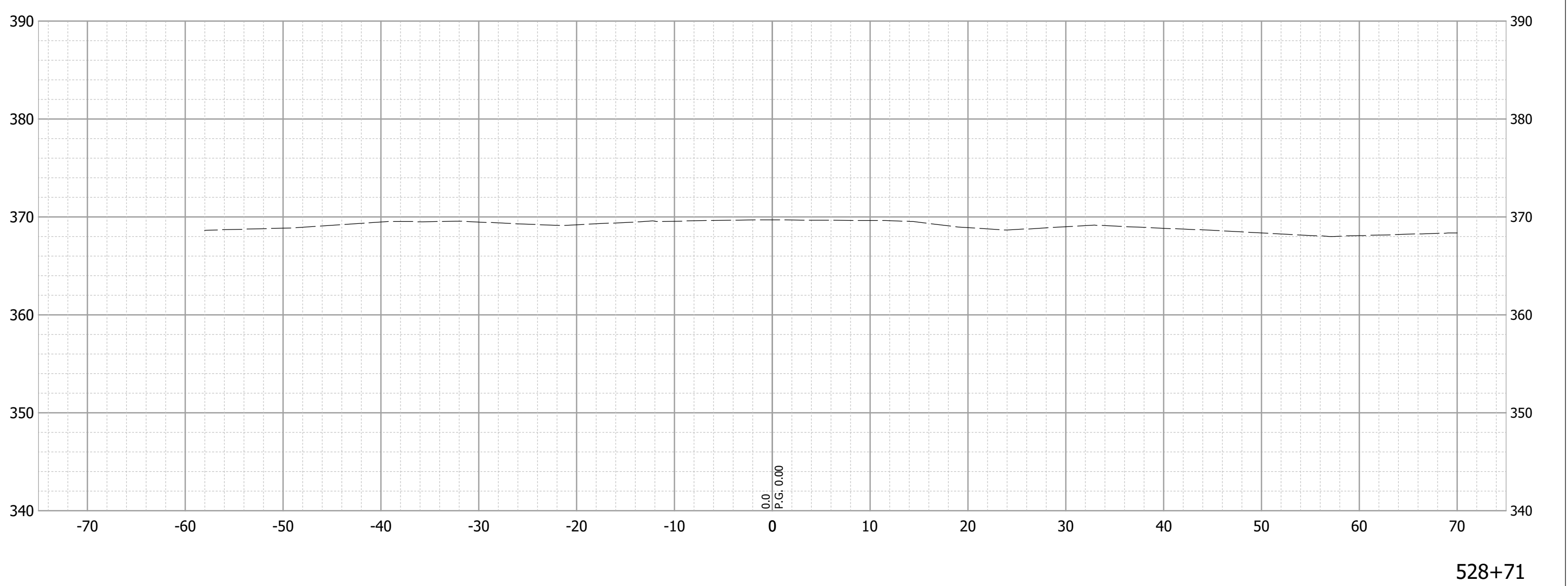
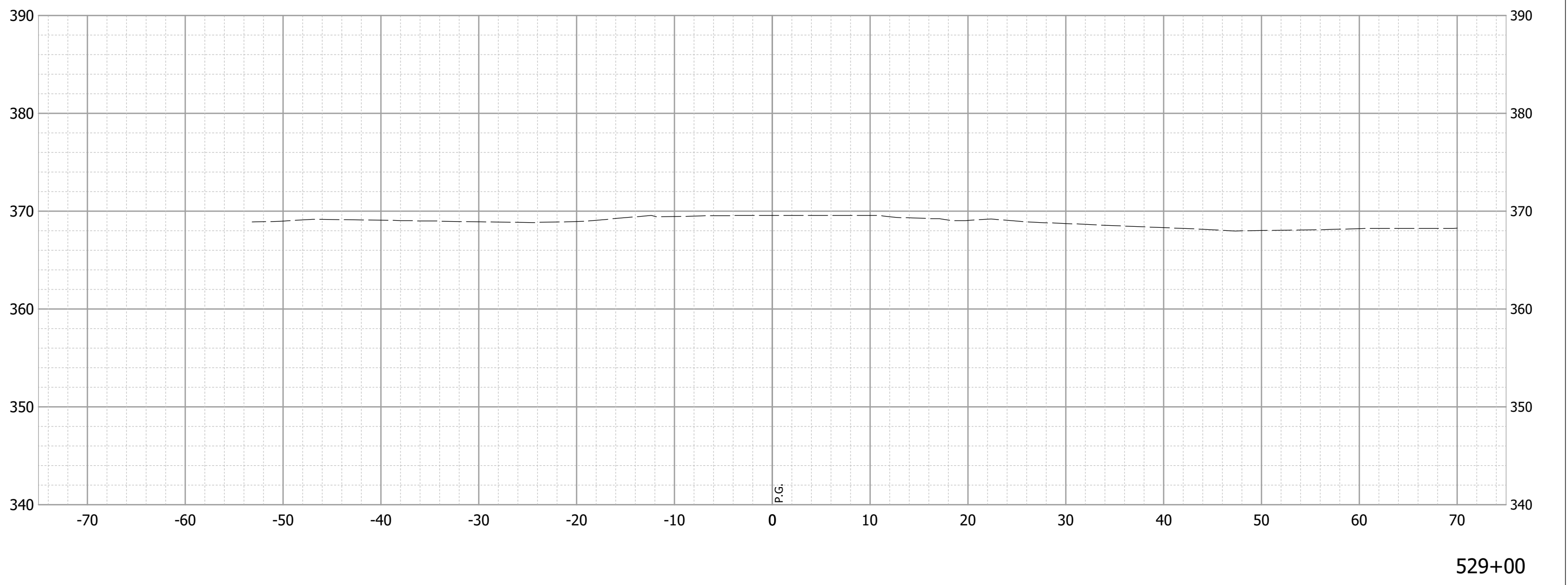
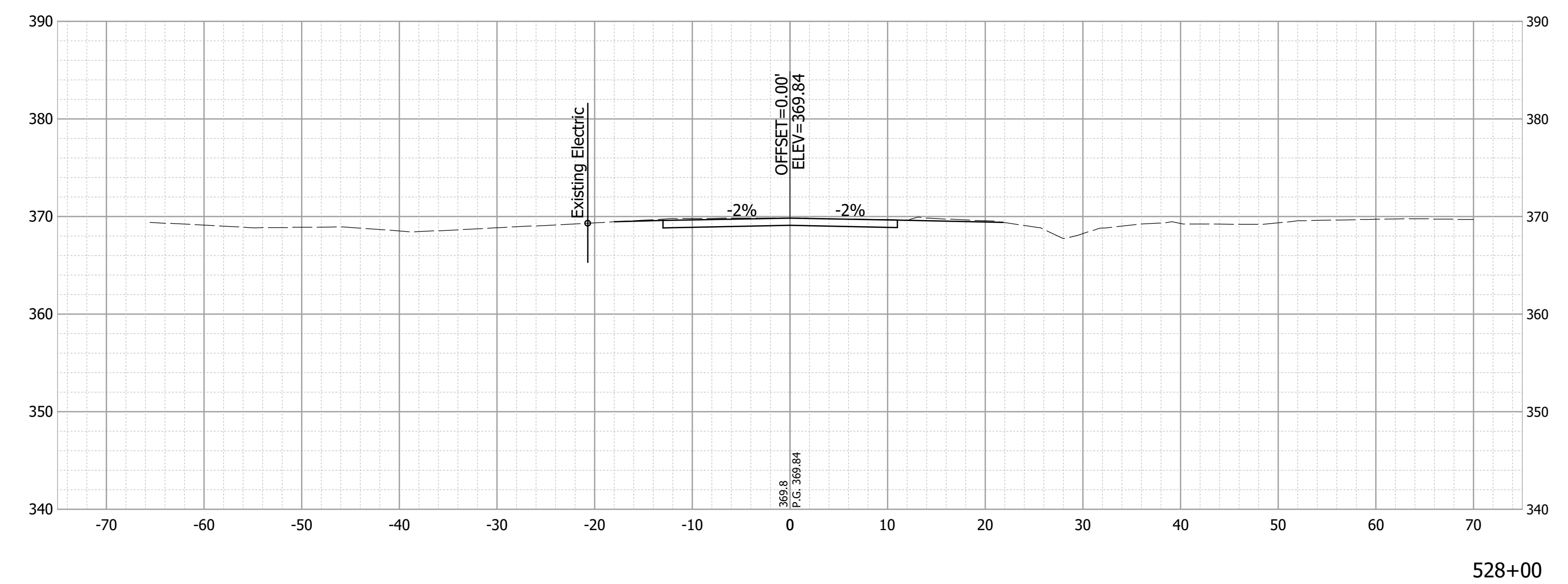
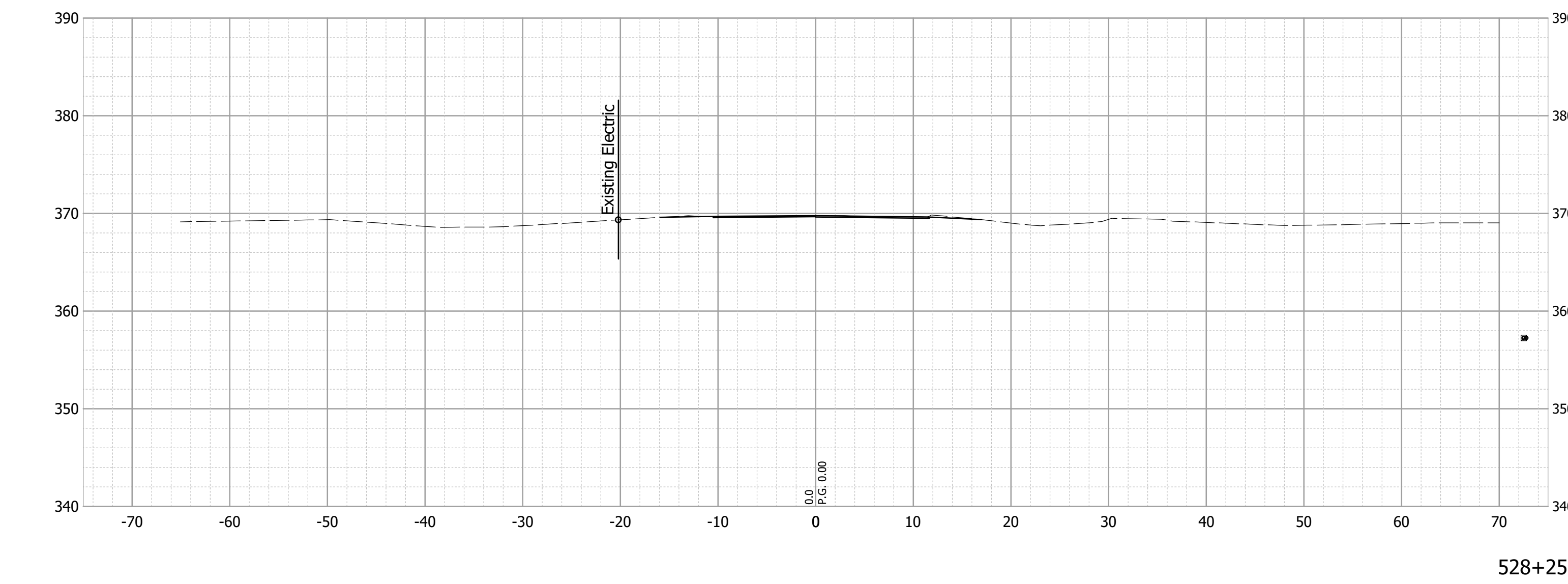
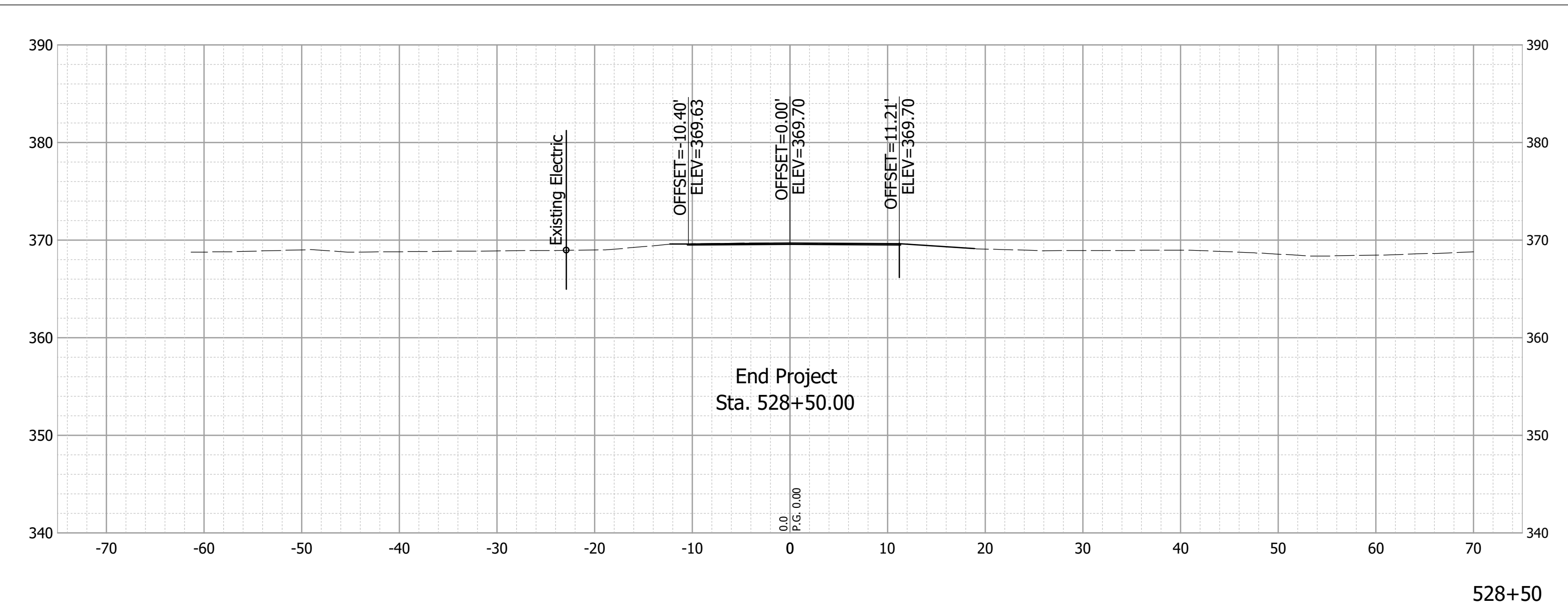
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1" = 10'			
VERTICAL SCALE		DESIGNATION	
---		ENG2701728041	
SURVEY BOOK		SHEET	
ELECTRONIC		13	of 32
CONTRACT		PROJECT	
83955		124-0005	

Date: Jul 10, 2026, 9:37am User Name: Lorie
File: X:\ProductionFiles\12024\124-0005\PRO-01\CAD\RD_Xsects A.dwg (Xsects - (3))



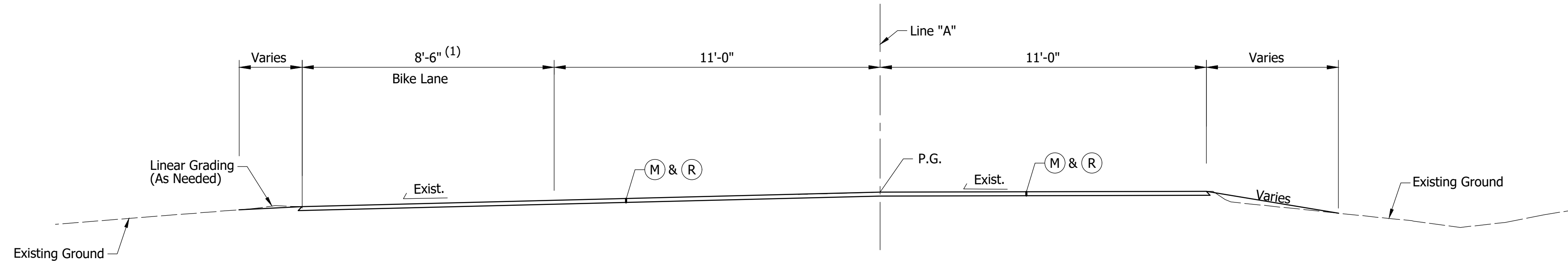
RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE 07/15/2026		INDIANA DEPARTMENT OF NATURAL RESOURCES		HORIZONTAL SCALE 1" = 10'		BRIDGE FILE			
				VERTICAL SCALE ---		DESIGNATION ENG2701728041			
DESIGNED: _____ DAS		DRAWN: _____ CCW		CROSS SECTIONS LINE "A"		SURVEY BOOK ELECTRONIC		SHEET 14 of 32	
CHECKED: _____ NAW		CHECKED: _____ DAS				CONTRACT 83955		PROJECT 124-0005	

Date: Jul 10, 2026, 9:39am User Name: Lorie
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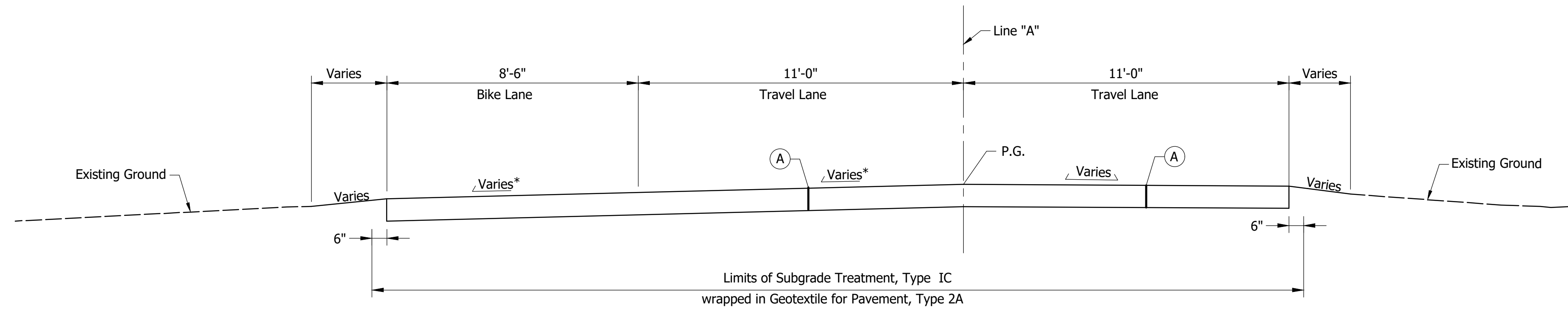
RECOMMENDED FOR APPROVAL DESIGN ENGINEER 07/15/2026 DATE		INDIANA DEPARTMENT OF NATURAL RESOURCES		HORIZONTAL SCALE		BRIDGE FILE			
				1" = 10'					
				VERTICAL SCALE		DESIGNATION			
				---		ENG2701728041			
DESIGNED: DAS		DRAWN: CCW		CROSS SECTIONS LINE "A"		SURVEY BOOK		SHEET	
		ELECTRONIC				15 of 32			
CHECKED: NAW		CHECKED: DAS				CONTRACT		PROJECT	
				83955		124-0005			

PROJECT AREA #2



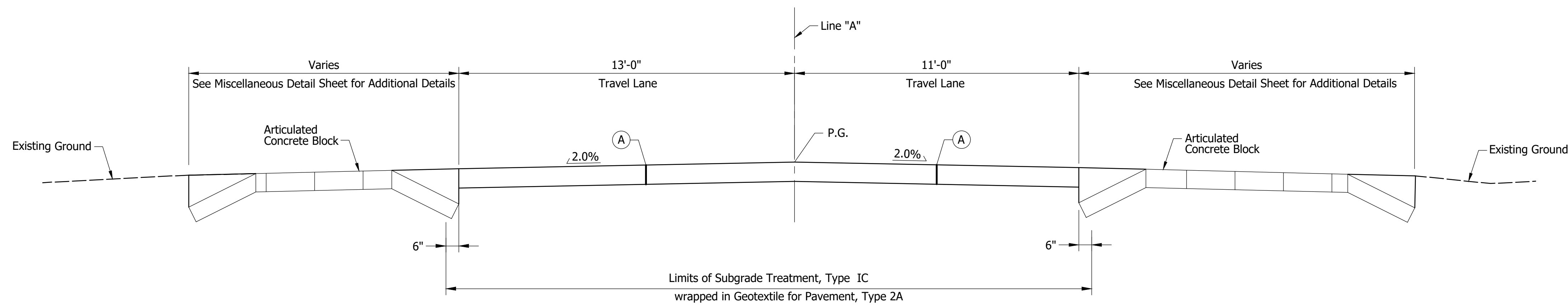
(1) 0'; Sta. 528+00.00 to Sta. 528+50.00

TYPICAL MILL & OVERLAY SECTION
Sta. 525+00.00 to Sta. 525+50.00
Sta. 528+00.00 to Sta. 528+50.00



* See Cross Sections

TYPICAL TANGENT SECTION
Sta. 525+50.00 to Sta. 525+93.50

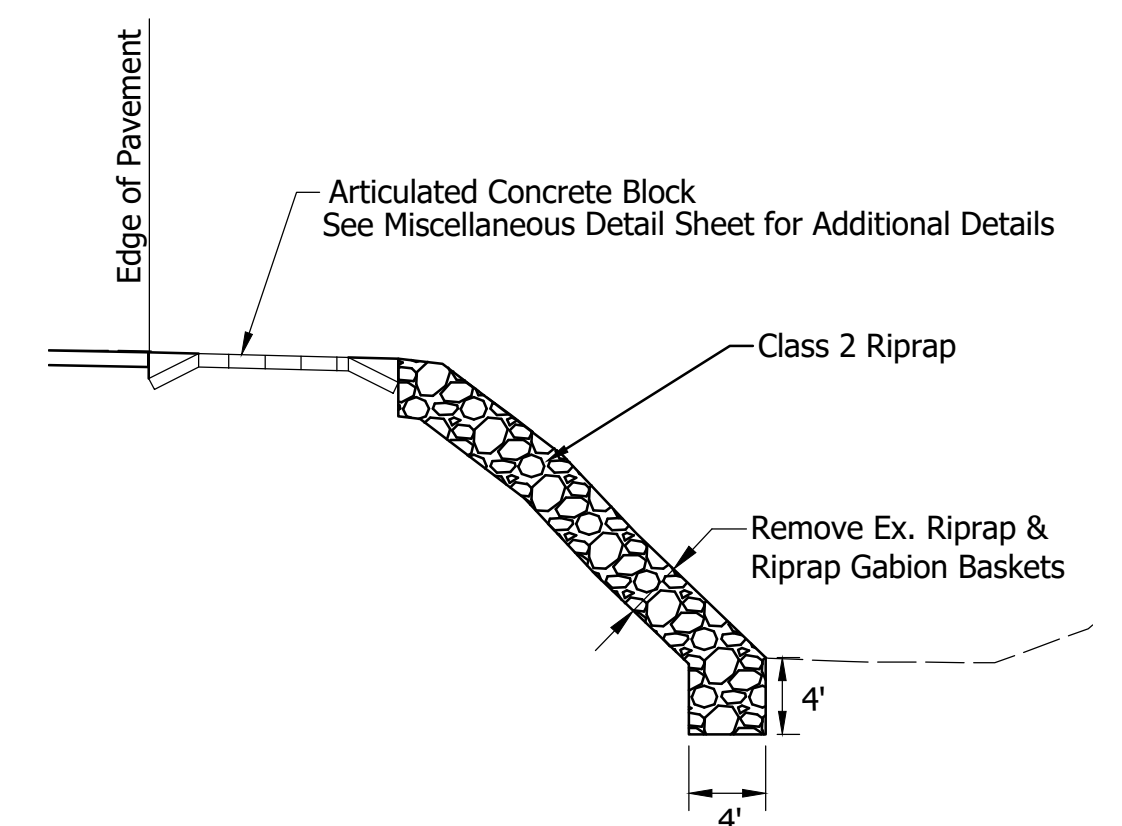


Note: See Construction Details for Limits of Articulated Concrete Block.

TYPICAL TANGENT SECTION
Sta. 525+93.50 to Sta. 528+00.00

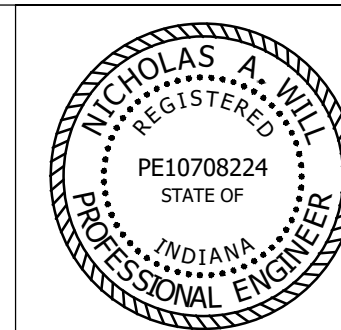
LEGEND

- (A) 9" PCCP w/ (15' D-1 Joint Spacing w/ 1.25" Dowel Bar @ 1'-0" c/c) on Subgrade Treatment, Type IC wrapped in Geotextile for Pavement, Type 2A
- (M) Milling, Asphalt, Varies (0" to 1.5")
- (R) 165#/SYS HMA, Surface, Type B



AUXILIARY RIPRAP TOE SECTION
Scale: 1"=10'

Date: Jul 10, 2026, 9:40am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\02_Typicals.dwg - Typicals RC

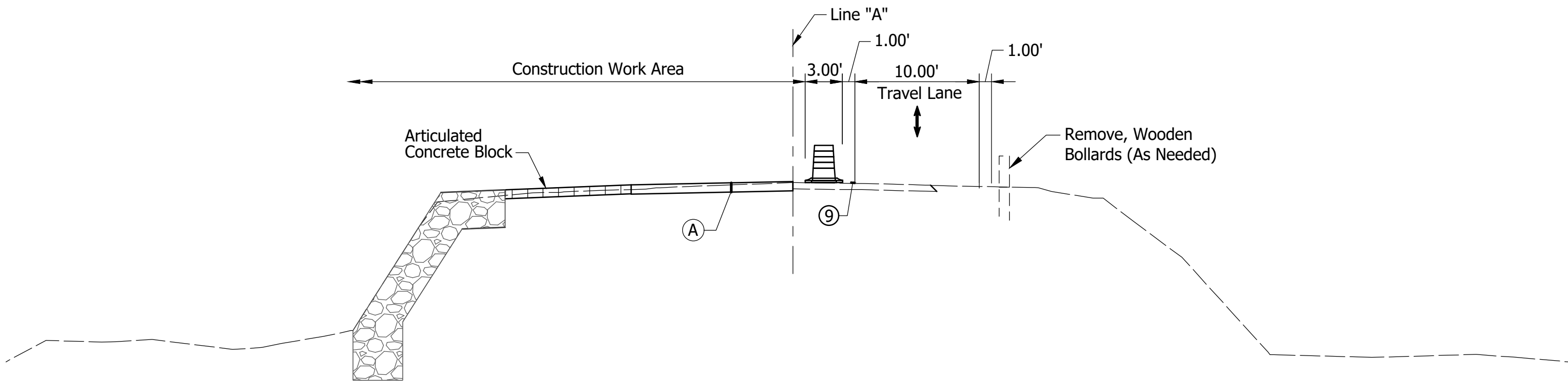


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	07/15/2026
	DESIGN ENGINEER	DATE
DESIGNED: _____	DAS	DRAWN: _____
		CCW
CHECKED: _____	NAW	CHECKED: _____
		DAS

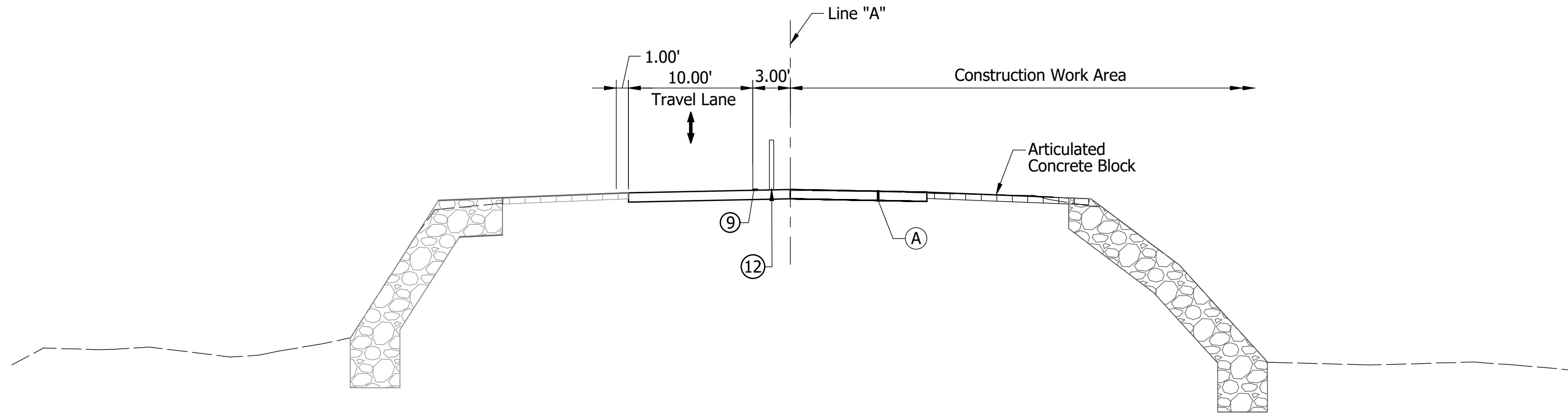
INDIANA
DEPARTMENT OF NATURAL RESOURCES

TYPICAL SECTION
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE		
3/8" = 1'-0"			
VERTICAL SCALE	DESIGNATION		
---	ENG2701728041		
SURVEY BOOK	SHEET		
ELECTRONIC	16	of	32
CONTRACT	PROJECT		
83955	124-0005		



MAINTENANCE OF TRAFFIC TYPICAL SECTION - PHASE 2A
Sta. 525+00 to Sta. 528+00.00 "A"



MAINTENANCE OF TRAFFIC TYPICAL SECTION - PHASE 2B
Sta. 525+00 to Sta. 528+00.00 "A"

- LEGEND**
- 9" PCCP w/ (15' D-1 Joint Spacing w/ 1.25" Dowel Bar @ 1'-0" c/c) on 12" Compacted Aggregate, No. 53 wrapped in Geotextile for Pavement, Type 2A
 - Temporary Pavement Marking, Removable, Solid, White, 4"
 - Tubular Marker Delineator (25' Spacing) Standard Drum (25' Spacing)

RUSH CREEK PROJECT AREA #2

PHASE 2A:
Place Temporary Signal and Temporary Pavement Markings.
Shift Traffic to East Side of Park Road.
Remove Existing Material, Install Proposed Rip Rap, and Concrete Articulated Block.
Saw Cut and Place Proposed Wood Bollards.
Place Aggregate for Driveway.
Place Proposed Concrete Pavement West Side of Road Over Area of Twin Structures.

PHASE 2B:
Relocate Temporary Signal and Shift Traffic to West Side of Park Road.
Remove Existing Material, Install Proposed Rip Rap, and Concrete Articulated Block.
Saw Cut and Place Proposed Wood Bollards.
Place Proposed Concrete Pavement East Side of Road Over Area of Twin Structures.
Place Proposed Driveway Asphalt, and Mill and Overlay Transitions Begin and End Project.
The Mill and Overlay Operations Shall be Completed Under Flagging and Follow INDOT Standard Drawing 801-TCFO-03.
Place Proposed Stripping and Bike Lane Symbols.
Contractor Shall Maintain Access to Park/Campground at All Times.

MAINTENANCE OF TRAFFIC						
PHASE	Construction Sign, A	Construction Sign, B	Barricade, III-B	Temporary Pavement Marking, Removable, 4"	Temporary Pavement Marking, 6", Black	Temporary Transverse Pavement Marking, Removable, 24"
	Each	Each	LFT	LFT	LFT	LFT
Phase 2A	9	12	30	1,066	50	31
Phase 2B	9	12	40	753	-	-
Mill & Overlay	8	-	-	-	-	-

Date: Jul 10, 2026, 9:38am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\MOT\MOT Typicals.dwg - (MOT Typicals (2))

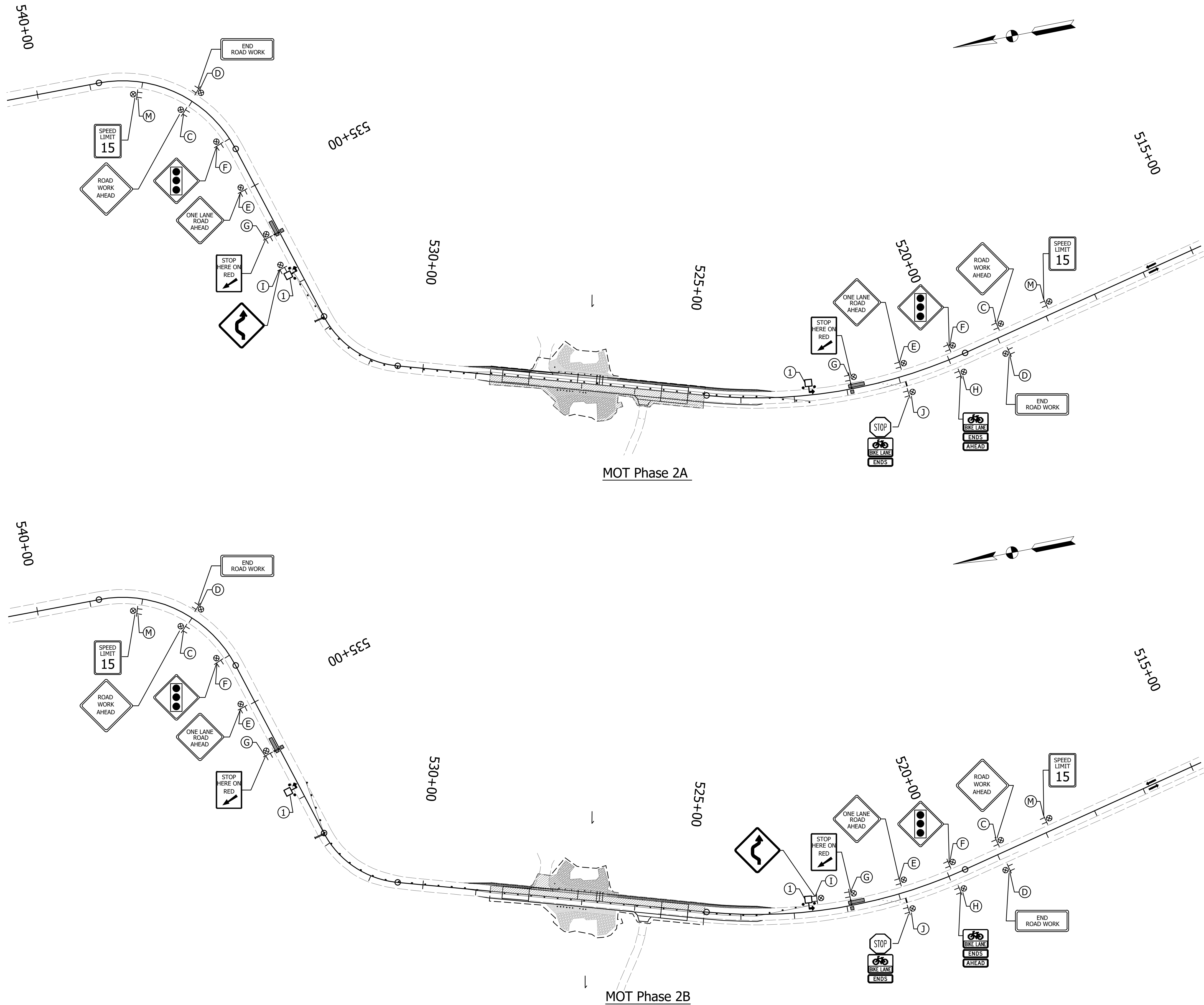


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	07/15/2026
	DESIGN ENGINEER	DATE
DESIGNED: _____	DAS	DRAWN: _____
		CCW
CHECKED: _____	NAW	CHECKED: _____
		DAS

INDIANA DEPARTMENT OF NATURAL RESOURCES	
MAINTENANCE OF TRAFFIC TYPICALS	

HORIZONTAL SCALE	BRIDGE FILE	
1/8" = 1'		
VERTICAL SCALE	DESIGNATION	
-	ENG2701728041	
SURVEY BOOK	SHEET	
ELECTRONIC	17	of 32
CONTRACT	PROJECT	
83955	124-0005	

Date: Jul 10, 2026, 9:38am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\MOT\MOT Phase 2.dwg - (MOT Phase 2)



LEGEND

- (B) Std. Barricade, Type III-B (Feet Req'd.)
- (C) Construction Sign, A, XW20-1A (Road Work Ahead)(36"x36")
- (D) Construction Sign, B, XG20-2A (End Road Work)(36"x18")
- (E) Construction Sign, A, XW20-4 (One Lane Road Ahead)(36"x36")
- (F) Construction Sign, A, XW3-3 (Signal Ahead)(36"x36")
- (G) Construction Sign, B, R10-6 (Stop Here On Red)(24"x36")
- (H) Construction Sign, B, R3-17 (Bike Lane)(24"x18")
Construction Sign, B, R3-17bP (ENDS Plaque)(24"x8")
Construction Sign, B, R3-17aP (AHEAD Plaque)(24"x8")
- (I) Construction Sign, A, W24-1 (Double Reverse Curve)(36"x36")
- (J) Construction Sign, B, R1-1 (Stop)(18"x18")
Construction Sign, B, R3-17 (Bike Lane)(24"x18")
Construction Sign, B, R3-17bP (ENDS Plaque)(24"x8")
- (M) Construction Sign, B, R2-1 (Speed Limit 15mph)(24"x30")
- (8) Temporary Transverse Pavement Marking, Removable, Solid, White, 24"
- (9) Temporary Pavement Marking, Removable, Solid, White, 4"
- (10) Temporary Pavement Marking, Removable, Dotted, White, 4" (2' Line, 6' Gap)
- (11) Temporary Pavement Marking, Removable, Solid, Black, 6"

- Tubular Marker Delineator (25' Spacing)
- Standard Drum (25' Spacing)
- Direction Of Traffic
- ≡ Std. Barricade
- TT Construction Sign
- ⊗ Construction Warning Light, Type A

Work Site

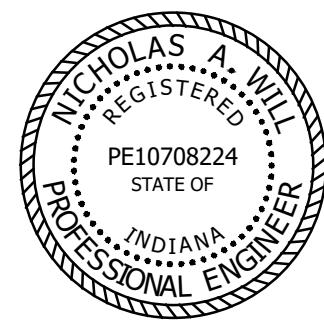
Vehicle Detection Area

SIGNAL LEGEND

- (1) Portable Signal

NOTES:

- All stations are described from Line "A" unless noted otherwise.
- 100' typical MOT sign spacing unless otherwise shown.
- Existing signs that are in conflict with MOT shall be covered.
- The Contractor shall maintain temporary access to all properties during construction.



RECOMMENDED FOR APPROVAL *Nicholas A. Will* 07/15/2026
DESIGN ENGINEER DATE

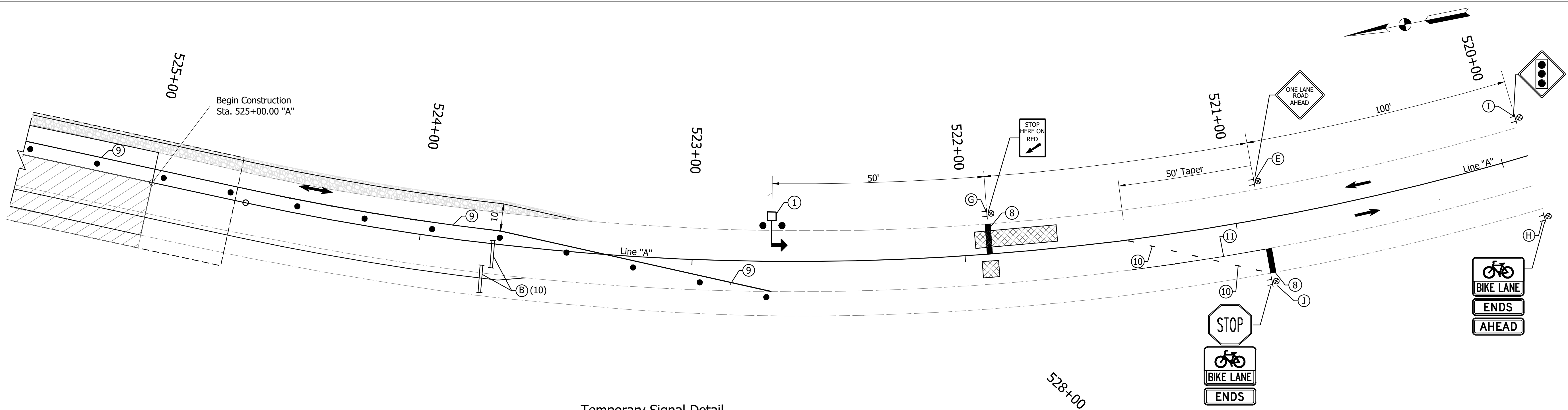
DESIGNED: DAS DRAWN: LLF
CHECKED: NAW CHECKED: DAS

INDIANA
DEPARTMENT OF NATURAL RESOURCES

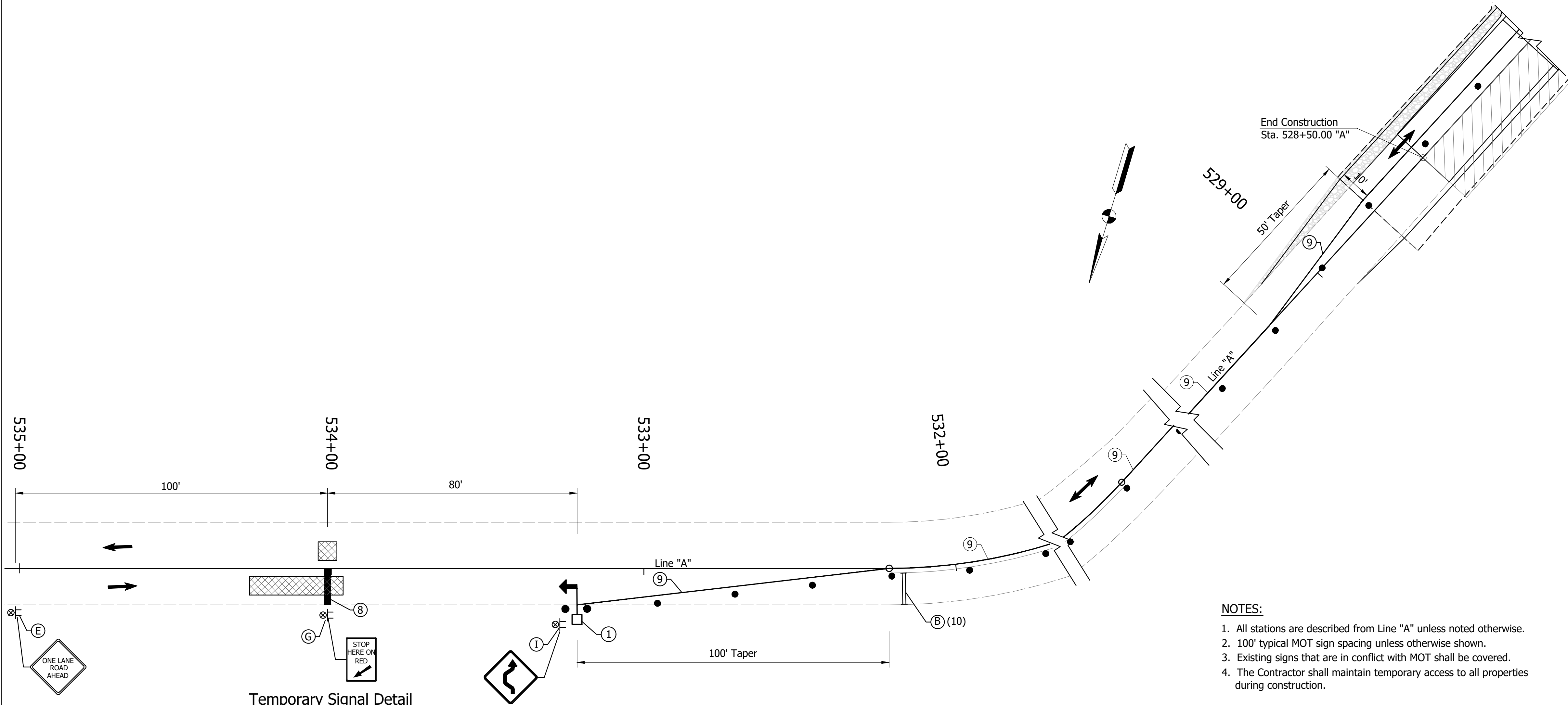
MAINTENANCE OF TRAFFIC
PHASE 2A & 2B

HORIZONTAL SCALE	BRIDGE FILE		
1" = 100'			
VERTICAL SCALE	DESIGNATION		
---	ENG2701728041		
SURVEY BOOK	SHEET		
ELECTRONIC	18	of	32
CONTRACT	PROJECT		
83955	124-0005		

Date: Jul 10, 2026, 9:35am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\DOT\MOT\MOT Phase 2 Details.dwg (MOT Phase 2 Details)



Temporary Signal Detail

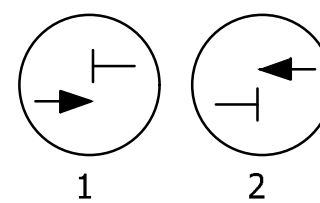


Temporary Signal Detail

- LEGEND**
- (B) Std. Barricade, Type III-B (Feet Req'd.)
 - (F) Construction Sign, A, XW3-3 (Signal Ahead)(36"x36")
 - (G) Construction Sign, B, R10-6 (Stop Here On Red)(24"x36")
 - (H) Construction Sign, B, R3-17 (Bike Lane)(24"x18")
Construction Sign, B, R3-17bP (ENDS Plaque)(24"x8")
Construction Sign, B, R3-17aP (AHEAD Plaque)(24"x8")
 - (I) Construction Sign, A, W24-1 (Double Reverse Curve)(36"x36")
 - (J) Construction Sign, B, R1-1 (Stop)(18"x18")
Construction Sign, B, R3-17 (Bike Lane)(24"x18")
Construction Sign, B, R3-17bP (ENDS Plaque)(24"x8")
 - (K) Construction Sign, B, R3-17 (Bike Lane)(24"x18")
Construction Sign, B, R3-17bP (ENDS Plaque)(24"x8")
 - (8) Temporary Transverse Pavement Marking, Removable, Solid, White, 24"
 - (9) Temporary Pavement Marking, Removable, Solid, White, 4"
 - (10) Temporary Pavement Marking, Removable, Dotted, White, 4" (2' Line, 6' Gap)
 - (11) Temporary Pavement Marking, Removable, Solid, Black, 6"

- LEGEND**
- Standard Drum (25' Spacing)
 - ↑ Direction Of Traffic
 - ≡ Std. Barricade
 - TT Construction Sign
 - ⊗ Construction Warning Light, Type A
 - ▨ Work Site
 - ▩ Vehicle Detection Area

SIGNAL PHASING DIAGRAM

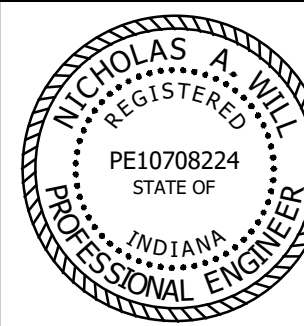


SIGNAL LEGEND

- (1) Portable Signal

NOTES:

1. All stations are described from Line "A" unless noted otherwise.
2. 100' typical MOT sign spacing unless otherwise shown.
3. Existing signs that are in conflict with MOT shall be covered.
4. The Contractor shall maintain temporary access to all properties during construction.



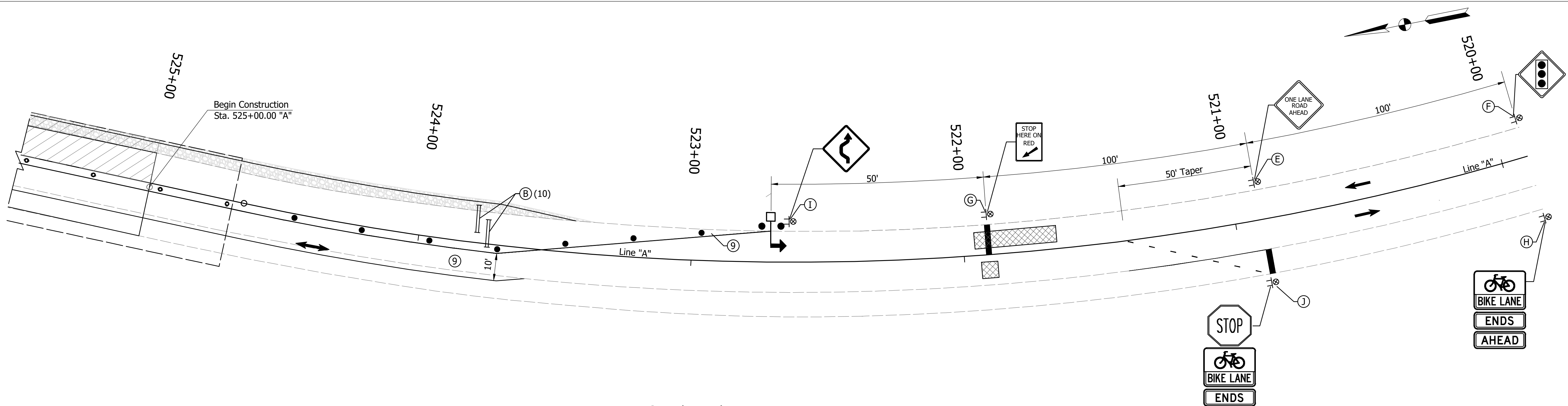
RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	07/15/2026
	DESIGN ENGINEER	DATE
DESIGNED: _____	DAS	DRAWN: _____
		CCW
CHECKED: _____	NAW	CHECKED: _____
		DAS

INDIANA
DEPARTMENT OF NATURAL RESOURCES

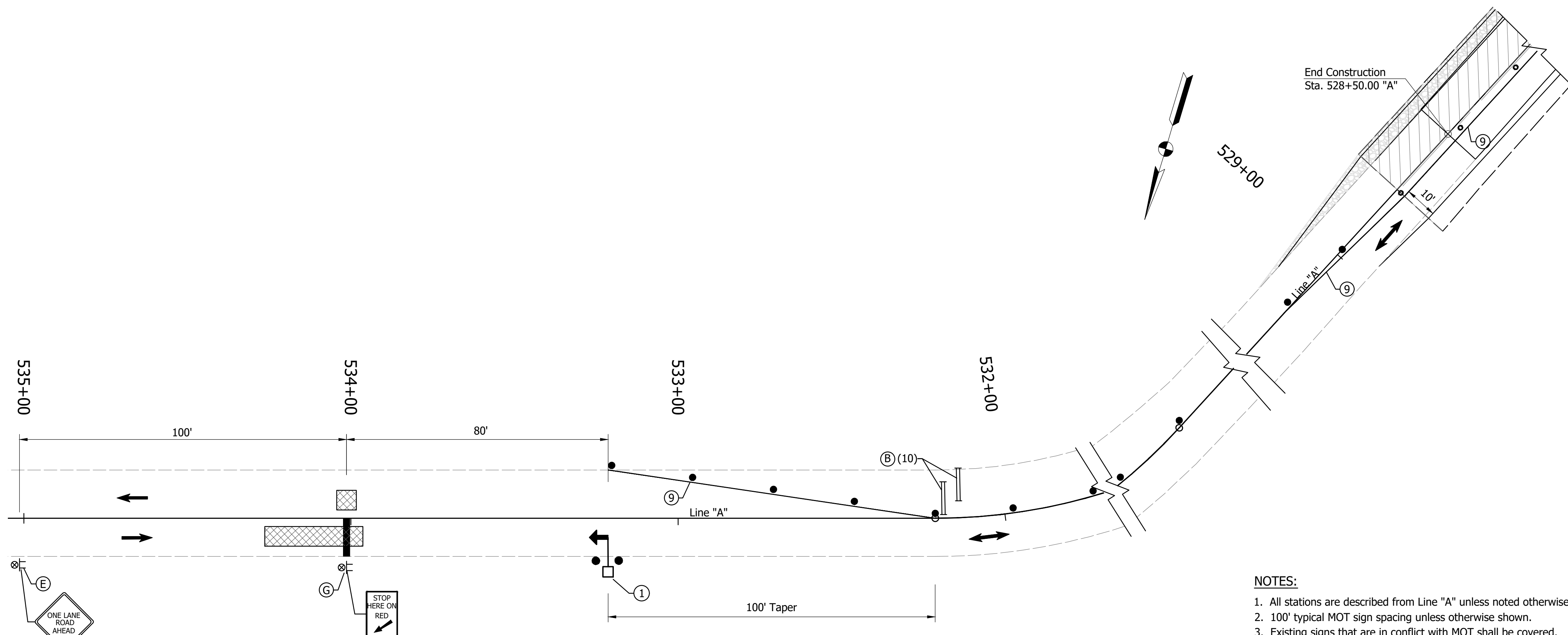
MAINTENANCE OF TRAFFIC
PHASE 2A DETAILS

HORIZONTAL SCALE	BRIDGE FILE		
1" = 20'			
VERTICAL SCALE	DESIGNATION		
---	ENG2701728041		
SURVEY BOOK	SHEET		
ELECTRONIC	19	of	32
CONTRACT	PROJECT		
83955	124-0005		

Date: Jul 10, 2026, 9:36am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\WOT\MOT Phase 2B Details.dwg - (MOT Phase 2B Details)



Temporary Signal Detail



Temporary Signal Detail

LEGEND

- (B) Std. Barricade, Type III-B (Feet Req'd.)
- (E) Construction Sign, A, XW20-4 (One Lane Road Ahead)(36"x36")
- (F) Construction Sign, A, XW3-3 (Signal Ahead)(36"x36")
- (G) Construction Sign, B, R10-6 (Stop Here On Red)(24"x36")
- (H) Construction Sign, B, R3-17 (Bike Lane)(24"x18")
Construction Sign, B, R3-17bP (ENDS Plaque)(24"x8")
Construction Sign, B, R3-17aP (AHEAD Plaque)(24"x8")
- (I) Construction Sign, A, W24-1 (Double Reverse Curve)(36"x36")
- (J) Construction Sign, B, R1-1 (Stop)(18"x18")
Construction Sign, B, R3-17 (Bike Lane)(24"x18")
Construction Sign, B, R3-17bP (ENDS Plaque)(24"x8")
- (8) Temporary Transverse Pavement Marking, Removable, Solid, White, 24"
- (9) Temporary Pavement Marking, Removable, Solid, White, 4"
- (10) Temporary Pavement Marking, Removable, Dotted, White, 4" (2' Line, 6' Gap)
- (11) Temporary Pavement Marking, Removable, Solid, Black, 6"

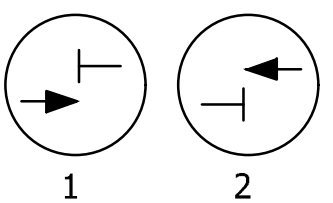
LEGEND

- Tubular Marker Delineator (25' Spacing)
- Standard Drum (25' Spacing)
- Direction Of Traffic
- ≡ Std. Barricade
- TT Construction Sign
- ⊗ Construction Warning Light, Type A
- ▨ Work Site
- ▩ Vehicle Detection Area

NOTES:

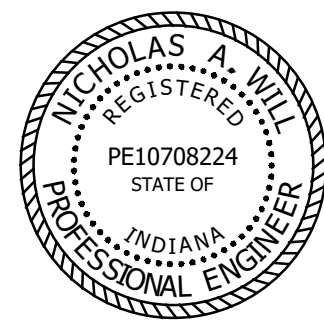
1. All stations are described from Line "A" unless noted otherwise.
2. 100' typical MOT sign spacing unless otherwise shown.
3. Existing signs that are in conflict with MOT shall be covered.
4. The Contractor shall maintain temporary access to all properties during construction.

SIGNAL PHASING DIAGRAM



SIGNAL LEGEND

- (1) Portable Signal



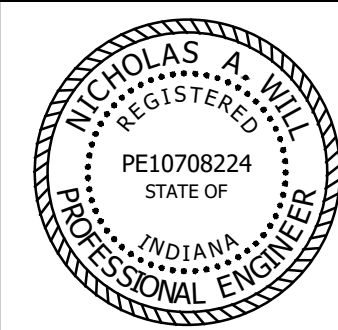
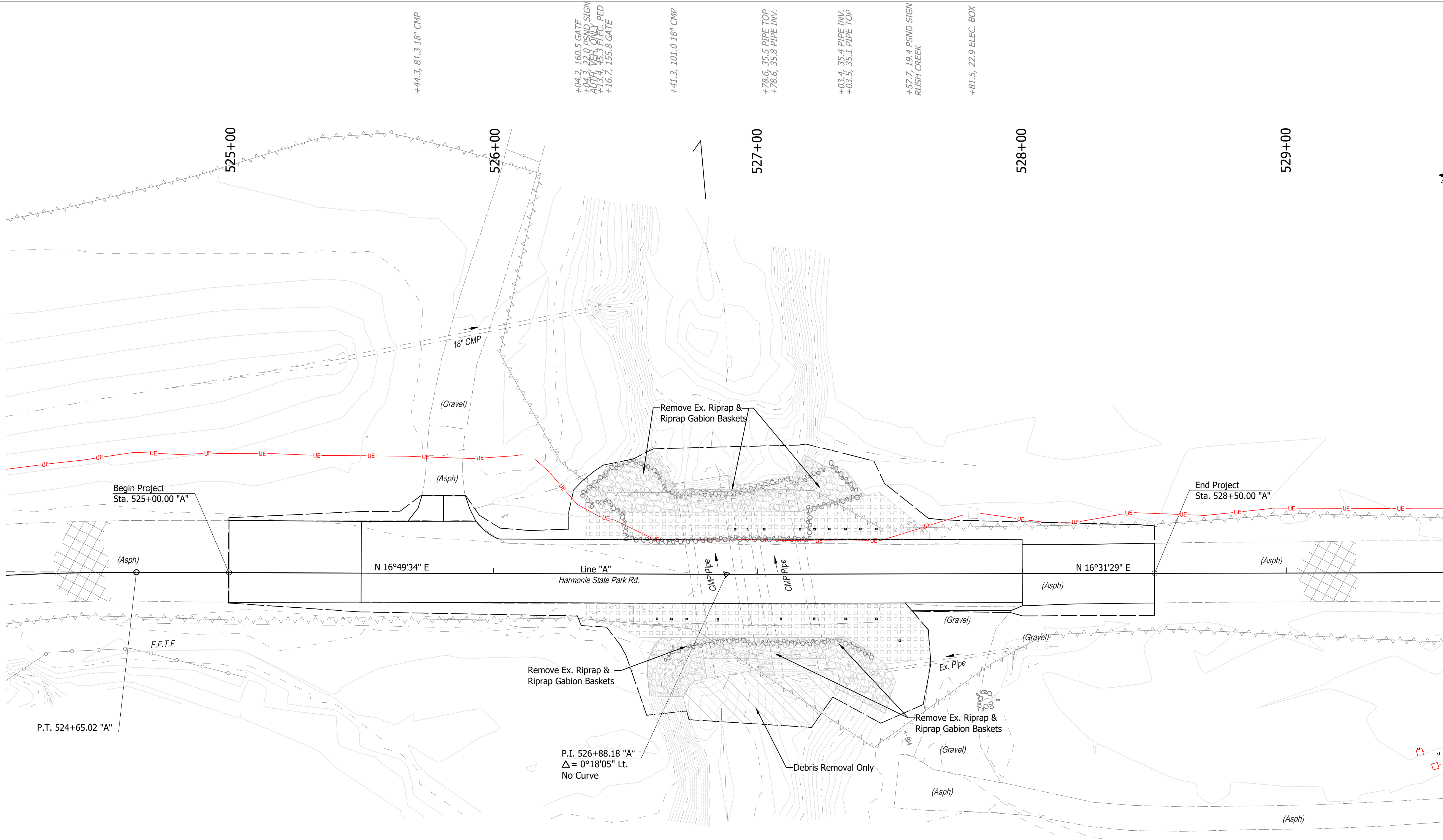
RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	07/15/2026	DATE
DESIGNED:	DAS	DRAWN:	CCW	
CHECKED:	NAW	CHECKED:	DAS	

INDIANA
DEPARTMENT OF NATURAL RESOURCES

MAINTENANCE OF TRAFFIC
PHASE 2B DETAILS

HORIZONTAL SCALE	BRIDGE FILE		
1" = 20'			
VERTICAL SCALE	DESIGNATION		
---	ENG2701728041		
SURVEY BOOK	SHEET		
ELECTRONIC	20	of	32
CONTRACT	PROJECT		
83955	124-0005		

Date: Jul 10, 2026, 9:41am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\162_Plan & Profile.dwg : (Plan 525+00 to 530+00)

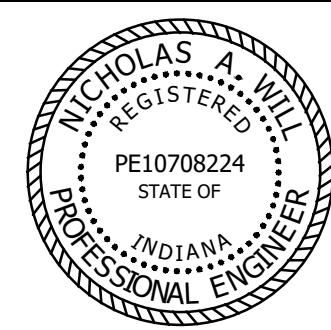
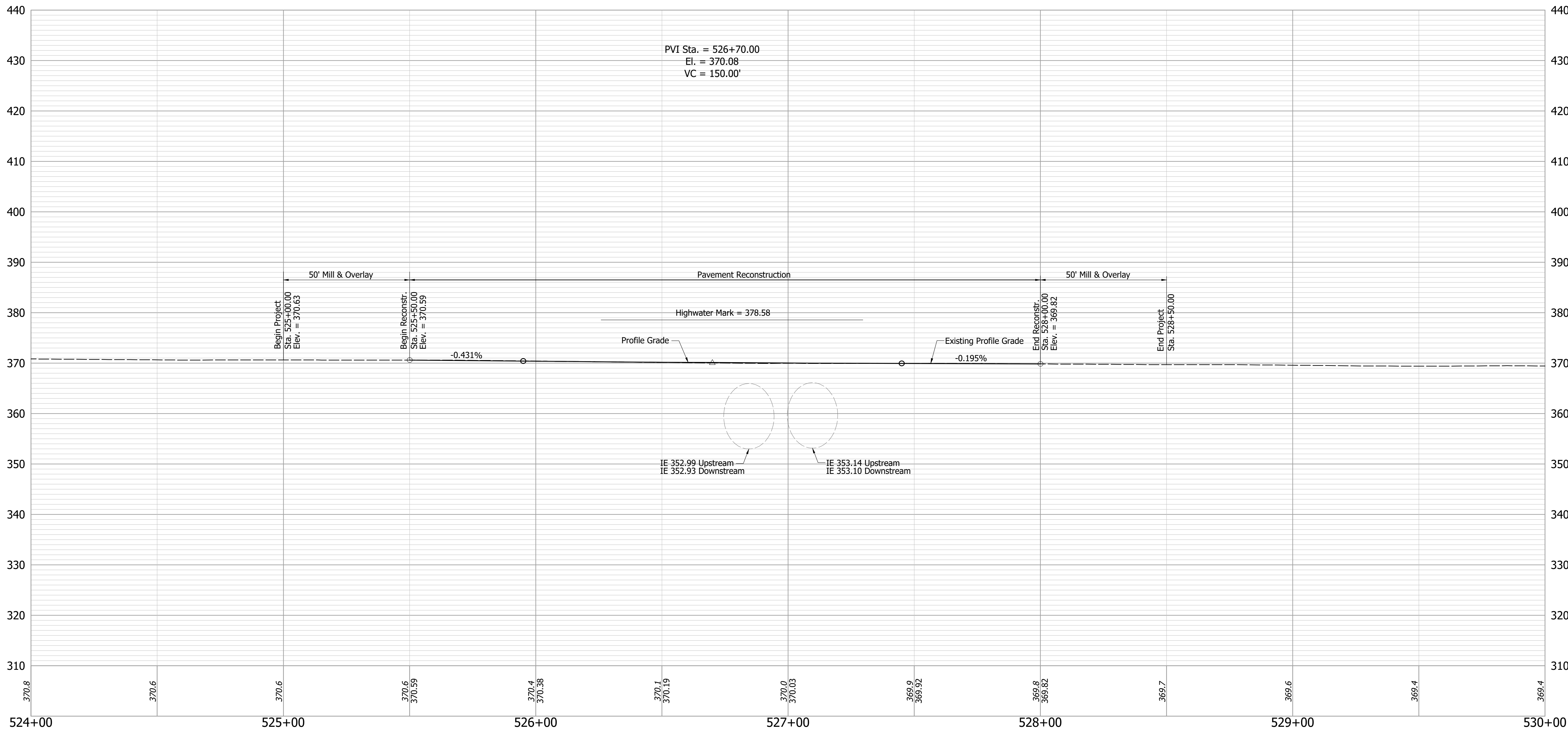


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	07/15/2026	DATE
DESIGNED:	DAS	DRAWN:	CCW	
CHECKED:	NAW	CHECKED:	DAS	

INDIANA DEPARTMENT OF NATURAL RESOURCES
PLAN STA. 525+00 TO STA. 530+00 "A"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE ---	DESIGNATION ENG2701728041
SURVEY BOOK ELECTRONIC	SHEET 21 of 32
CONTRACT 83955	PROJECT 124-0005

Date: Jul 10, 2026, 9:38am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\602_Plan & Profile.dwg - (Profile 525+00 to 530+00)



RECOMMENDED FOR APPROVAL *Nicholas A. Will* 07/15/2026
DESIGN ENGINEER DATE

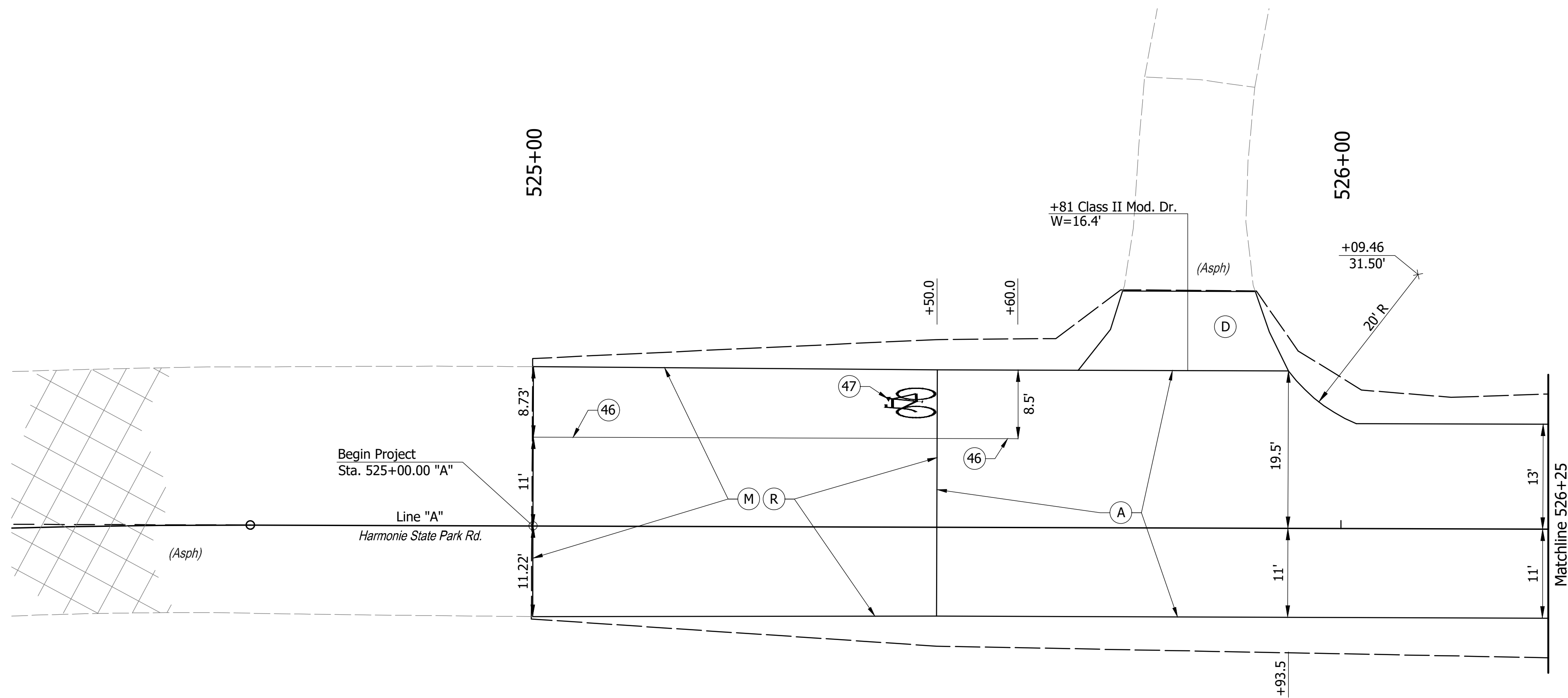
DESIGNED: _____ DAS _____ DRAWN: _____ CCW _____

CHECKED: _____ NAW _____ CHECKED: _____ DAS _____

INDIANA
DEPARTMENT OF NATURAL RESOURCES

PROFILE
STA. 525+00 TO STA. 530+00 "A"

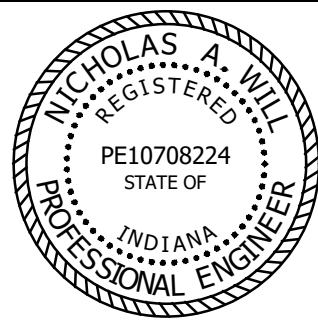
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VERTICAL SCALE 1" = 10'	DESIGNATION ENG2701728041	
SURVEY BOOK ELECTRONIC	22	of 32
CONTRACT 83955	PROJECT 124-0005	



LEGEND

- (A) 9" PCCP w/ (15' D-1 Joint Spacing w/ 1.25" Dowel Bar @ 1'-0" c/c) on Subgrade Treatment, Type IC wrapped in Geotextile for Pavement, Type 2A
- (D) HMA for Approaches, Type B
 - 165#/SYS HMA, Surface, Type B, on
 - 275#/SYS HMA, Intermediate, Type B, on
 - 5" Compacted Aggregate, No. 53
- (M) Milling, Asphalt, Varies (0" to 3.5")
- (R) 165#/SYS HMA, Surface, Type B
- (46) Line, Thermoplastic, White, 4 in.
- (47) Pavement Message Marking, Thermoplastic, Bike Symbol

Date: Jul 10, 2026, 9:39am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\602_Constr-Details RC.dwg - (CD RC_11)

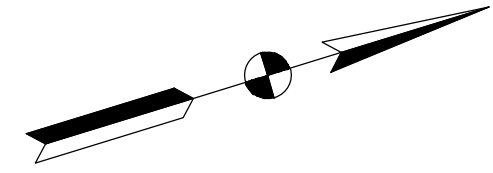
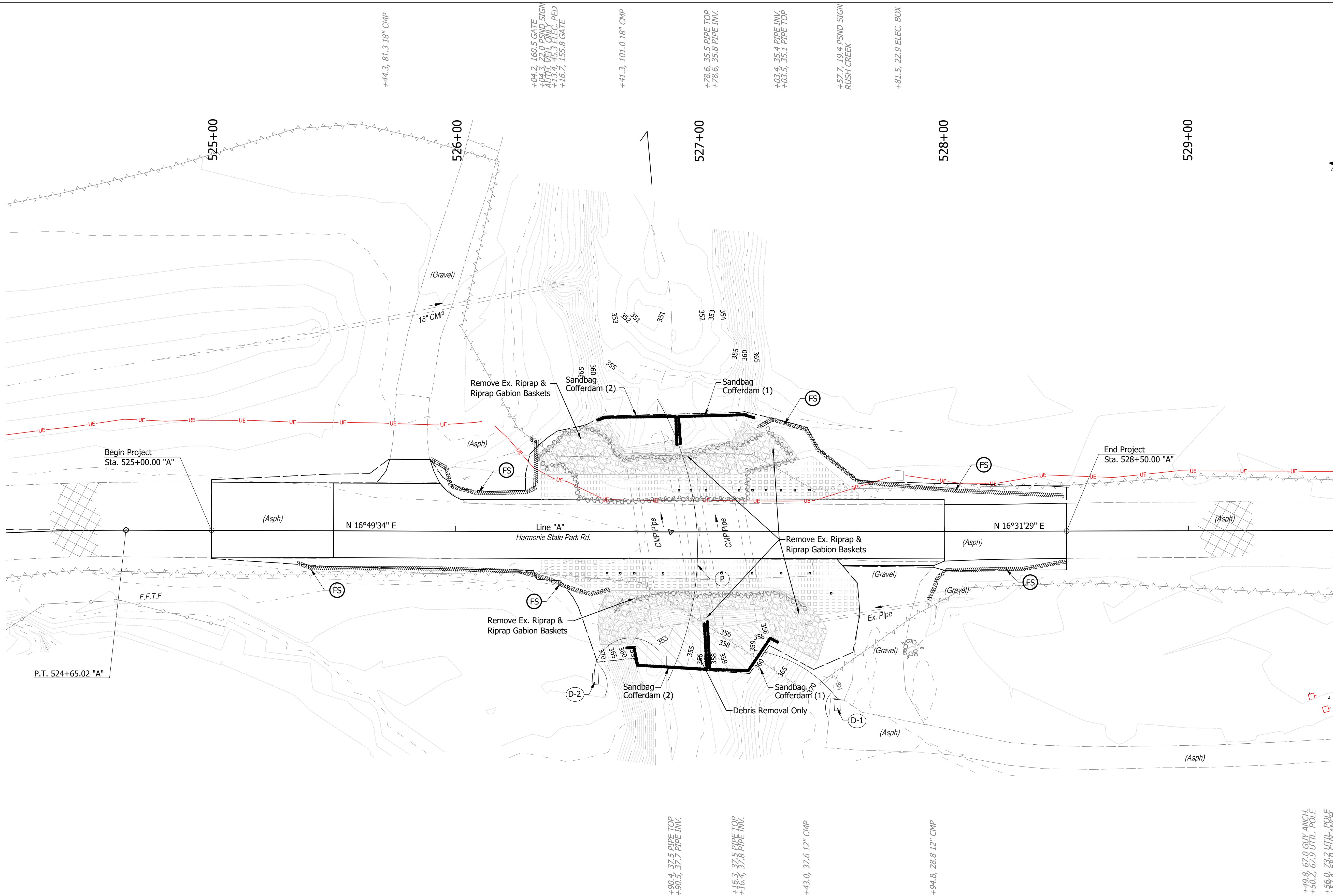


RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	07/15/2026
	DESIGN ENGINEER	DATE
DESIGNED: _____	DAS	DRAWN: _____
		CCW
CHECKED: _____	NAW	CHECKED: _____
		DAS

INDIANA DEPARTMENT OF NATURAL RESOURCES
CONSTRUCTION DETAILS LINE "A"

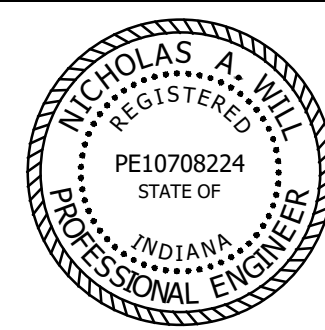
HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
---	ENG2701728041
SURVEY BOOK	SHEET
ELECTRONIC	23 of 32
CONTRACT	PROJECT
83955	124-0005

Date: Jul 10, 2026, 9:38am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\162_ESC Plan & Details.dwg (ESC Plan 525+00 to 530+00)



EROSION CONTROL LEGEND

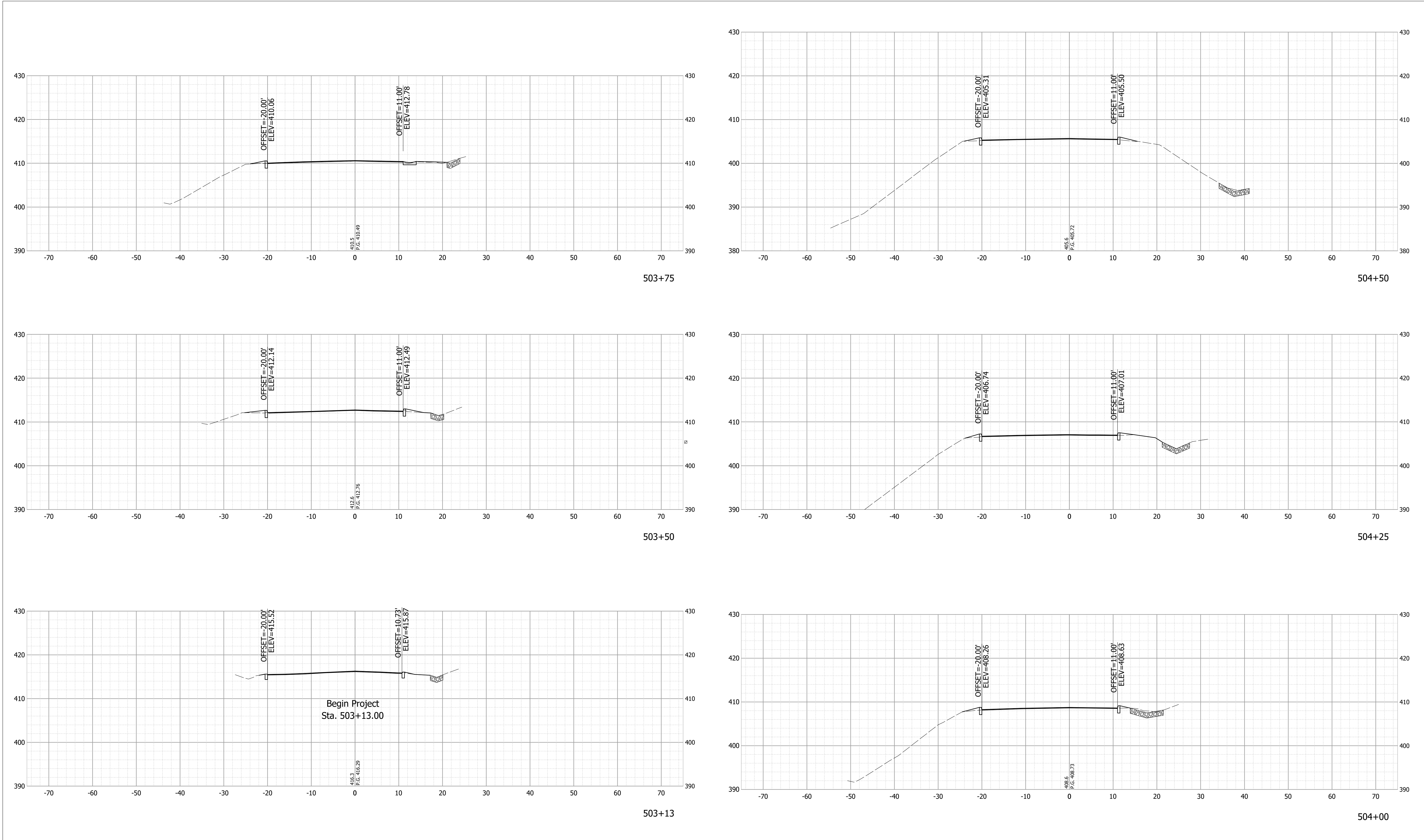
- (D) De-Watering
- (P) Pump-Around
- (FS) Filter Sock
- Sandbag Cofferdam



RECOMMENDED FOR APPROVAL Nicholas A. Will 07/15/2026
DESIGN ENGINEER DATE
DESIGNED: DAS DRAWN: LLF
CHECKED: DLD CHECKED: DAS

INDIANA
DEPARTMENT OF NATURAL RESOURCES
EROSION & SEDIMENT CONTROL PLAN
STA. 525+00 TO STA. 530+00 "A"

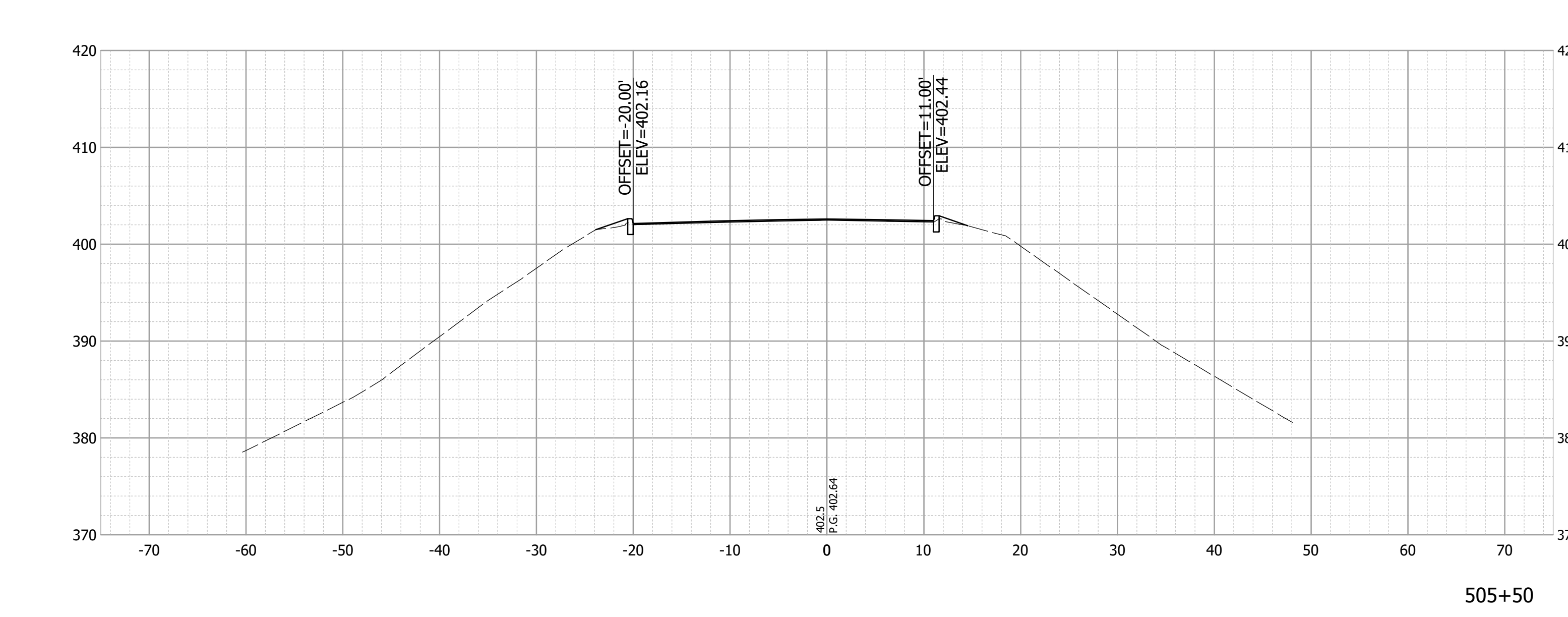
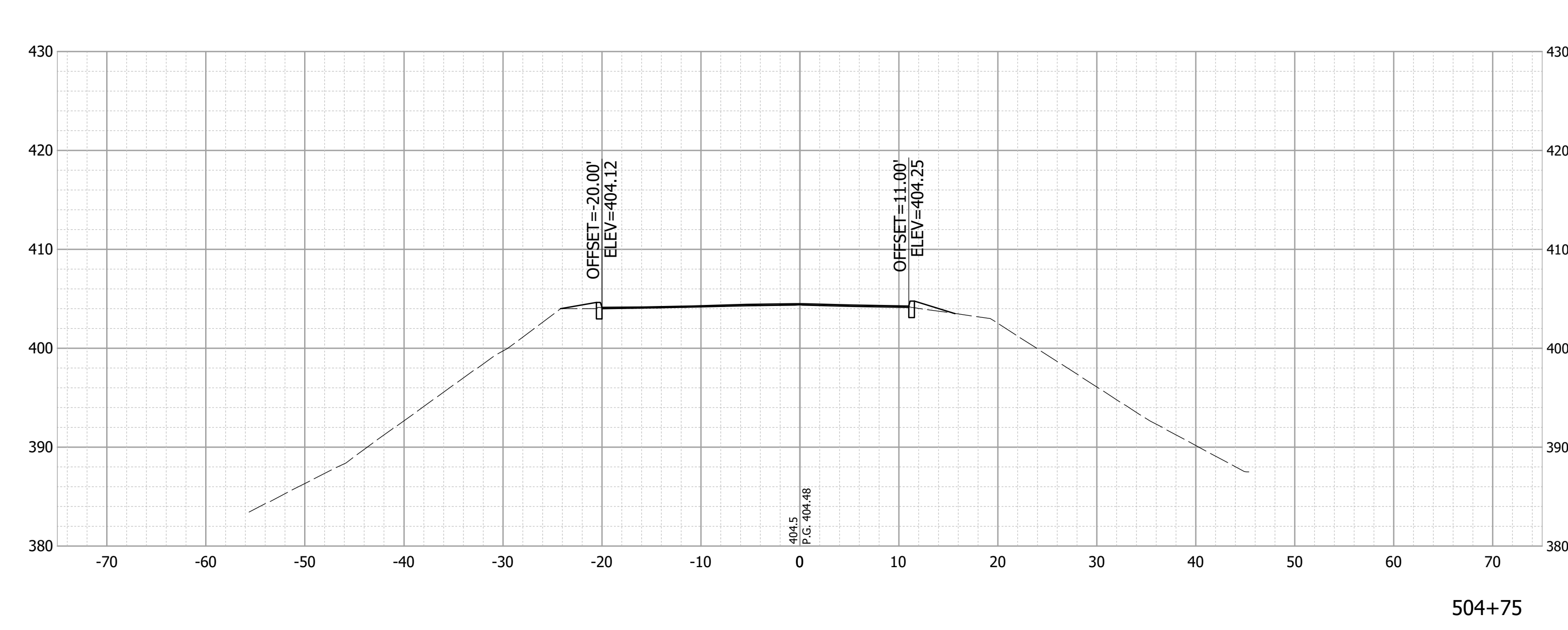
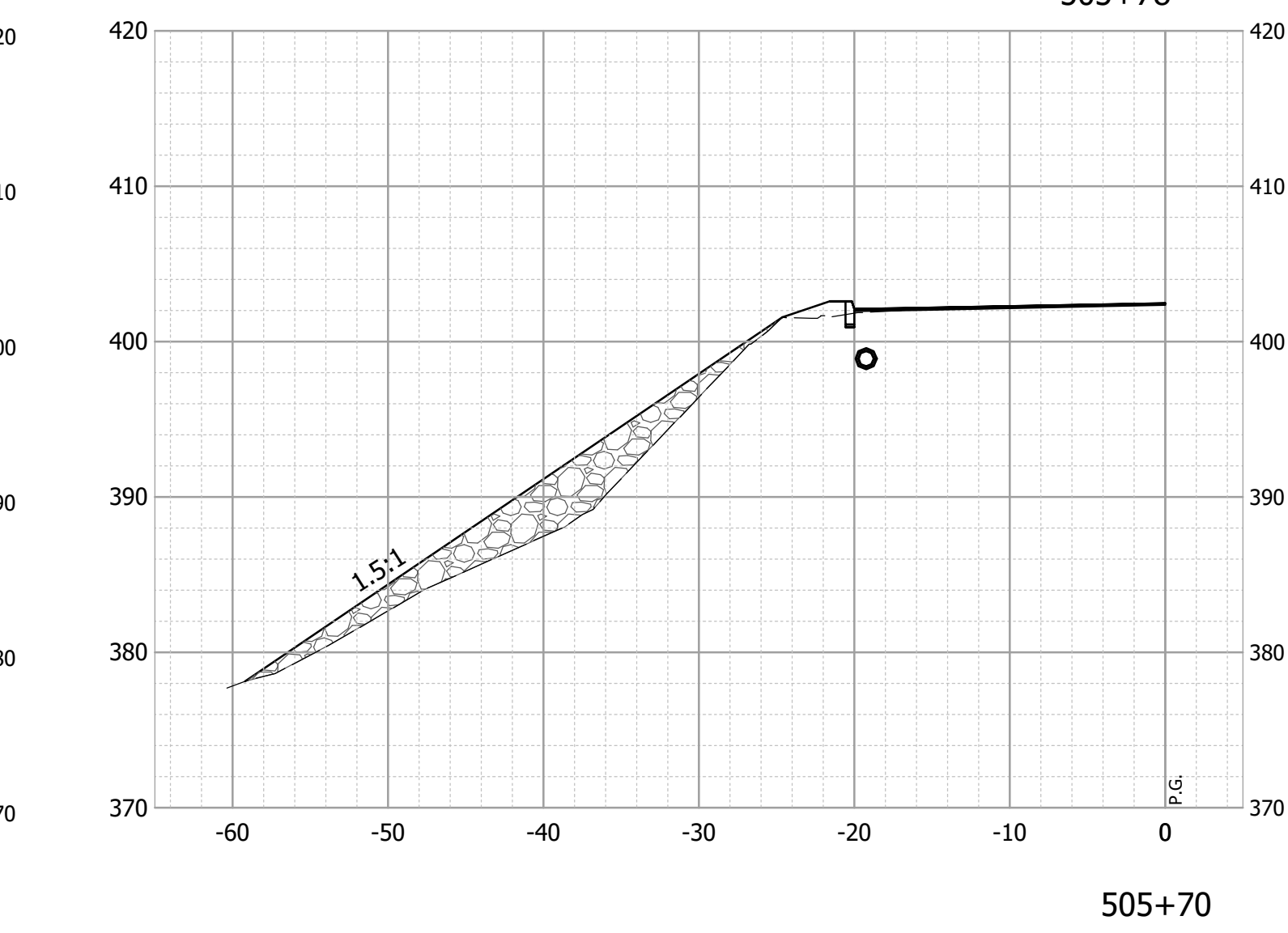
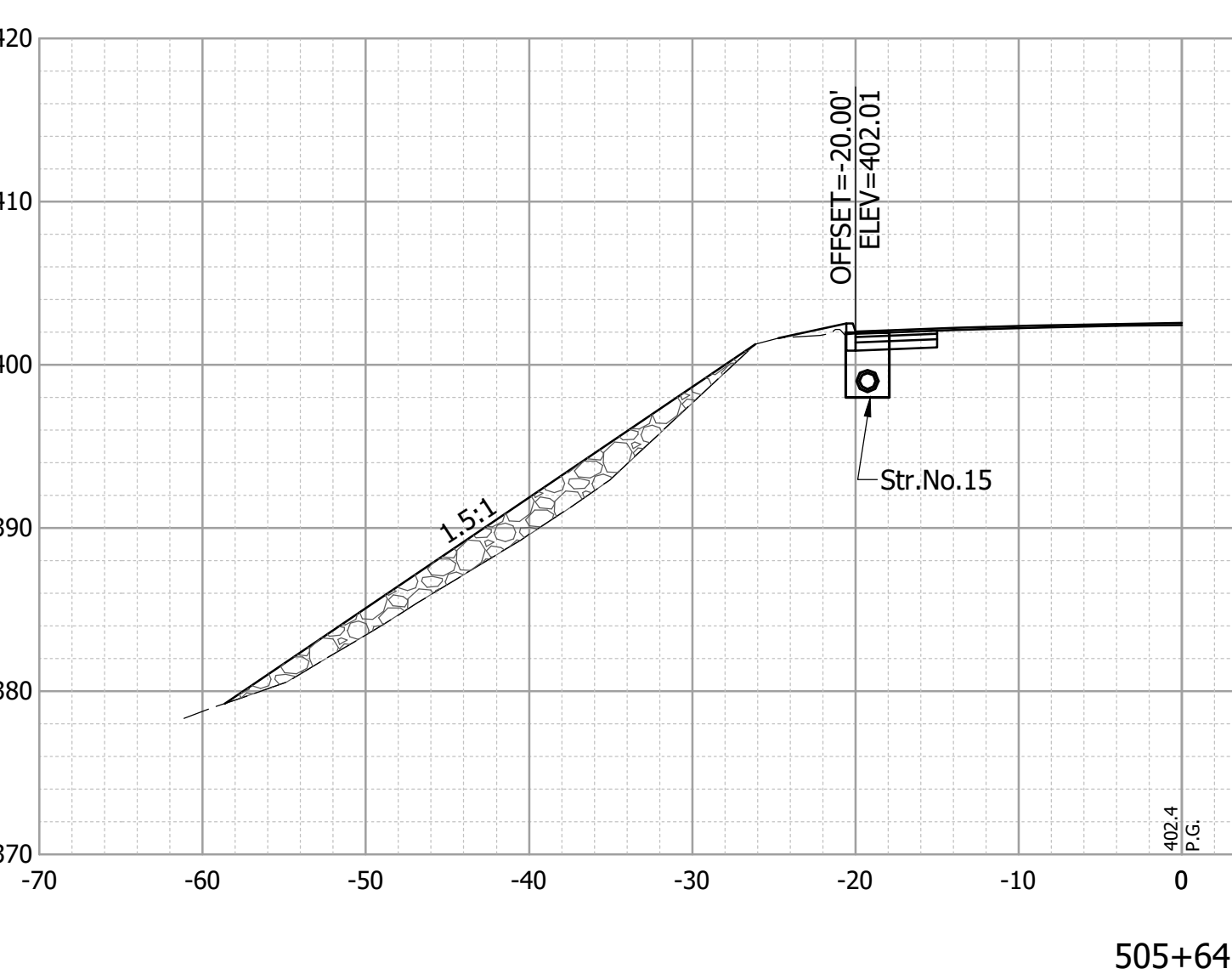
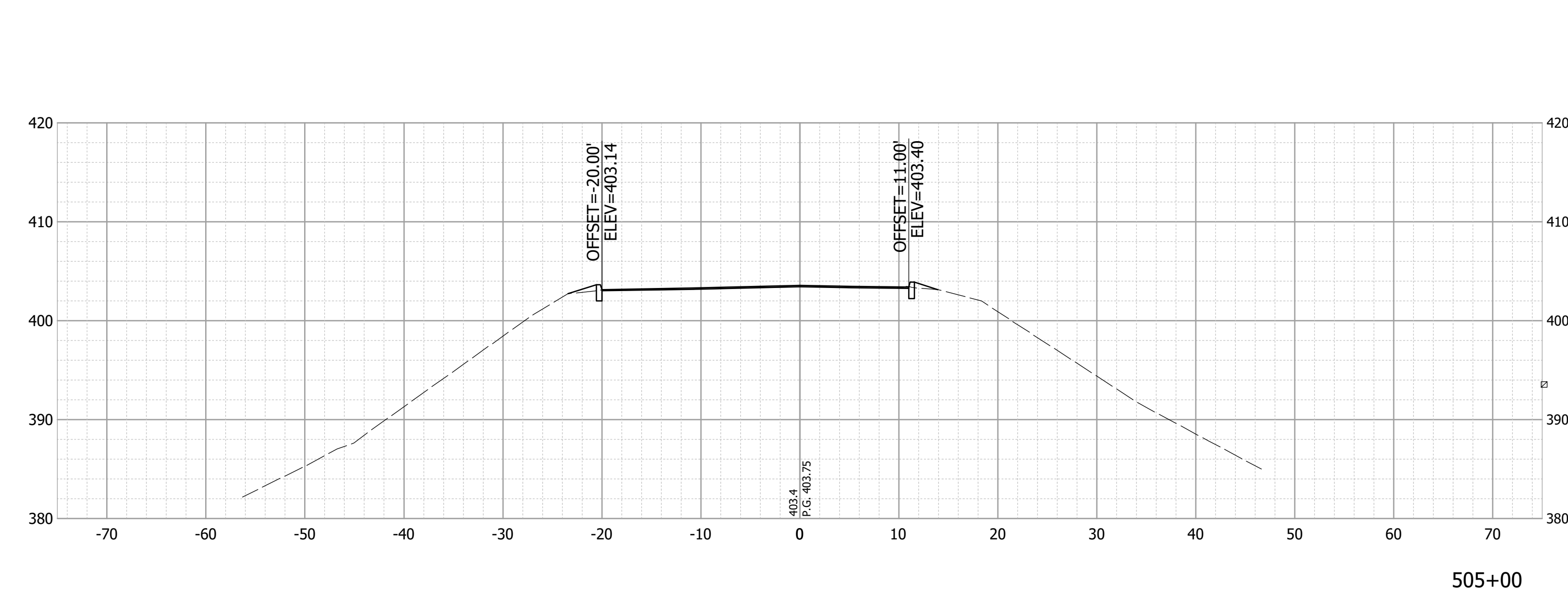
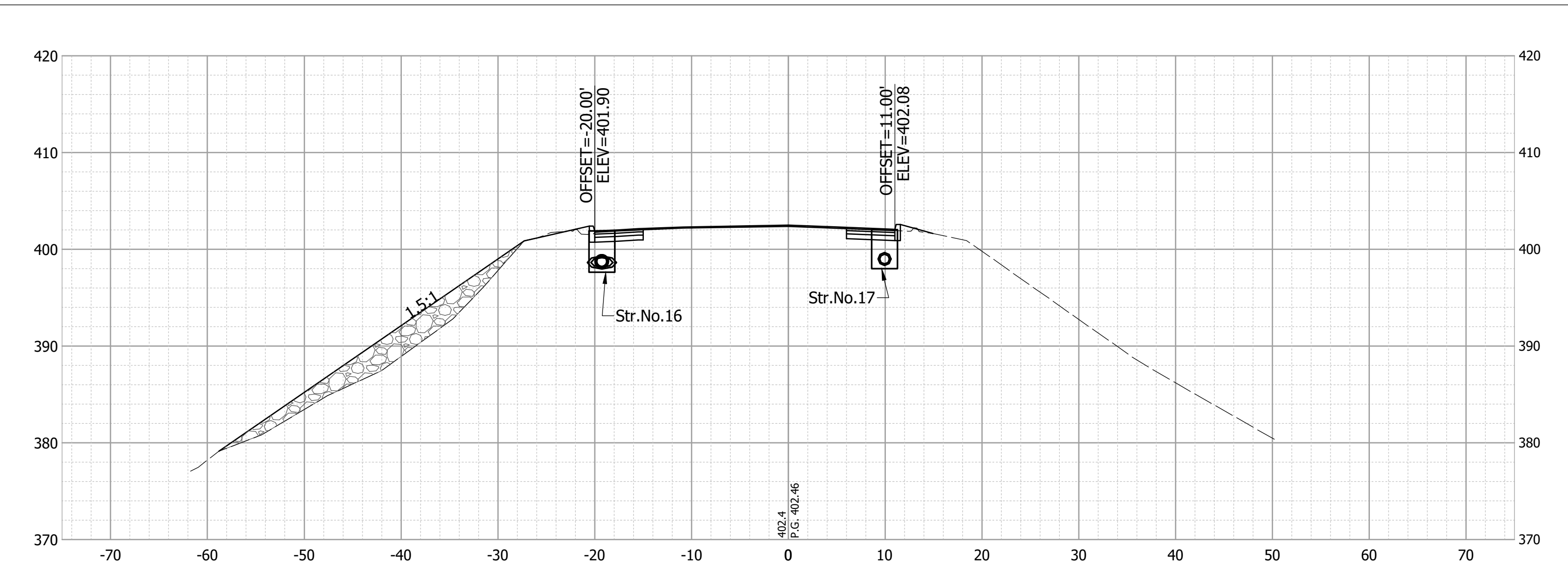
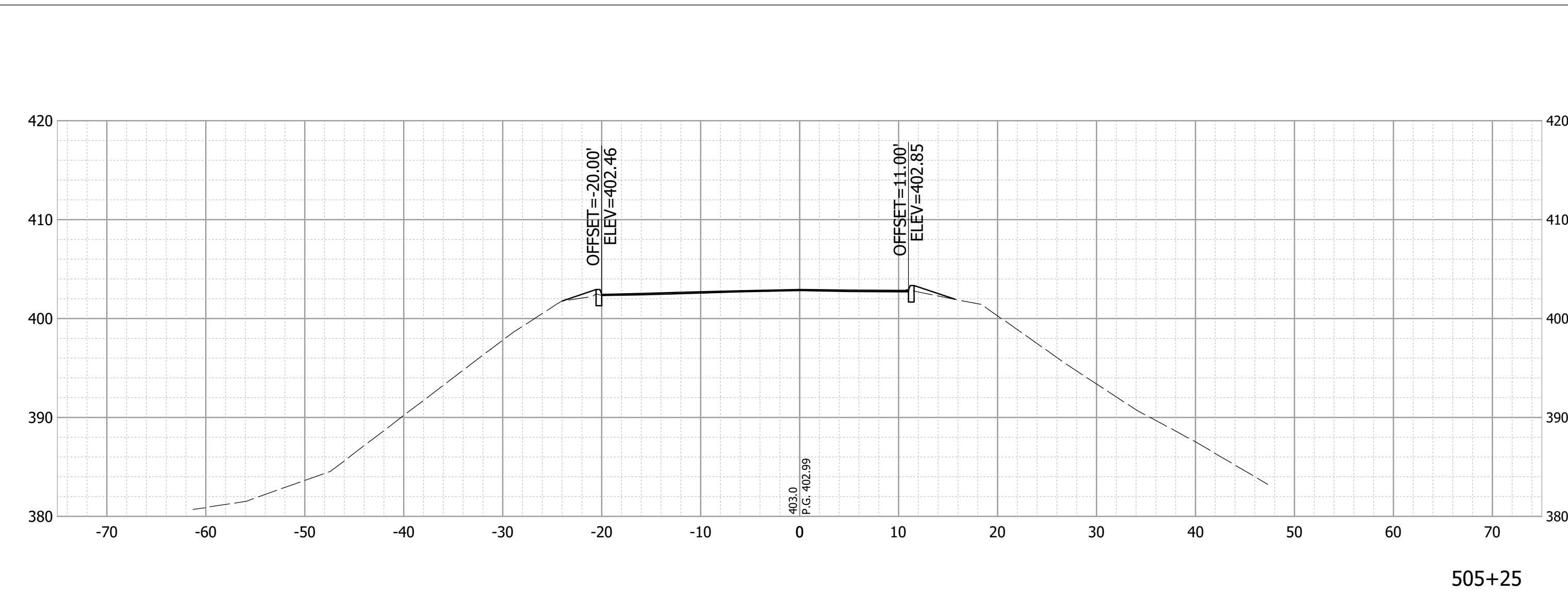
HORIZONTAL SCALE	BRIDGE FILE		
1" = 20'			
VERTICAL SCALE	DESIGNATION		
---	ENG2701728041		
SURVEY BOOK	SHEET		
ELECTRONIC	25	of	32
CONTRACT	PROJECT		
83955	124-0005		



Date: Jul 10, 2026, 9:39am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\160_Xsects A area2.dwg - (Xsects - (1))

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE 07/15/2026	INDIANA DEPARTMENT OF NATURAL RESOURCES		HORIZONTAL SCALE 1" = 10'		BRIDGE FILE	
	CROSS SECTIONS LINE "A"		VERTICAL SCALE ---		DESIGNATION ENG2701728041	
			SURVEY BOOK ELECTRONIC		SHEET 26 of 32	
DESIGNED: _____ DAS	DRAWN: _____ CCW			CONTRACT 83955		PROJECT 124-0005
CHECKED: _____ NAW	CHECKED: _____ DAS					

Date: Jul 10, 2026, 9:41am User Name: Lorie
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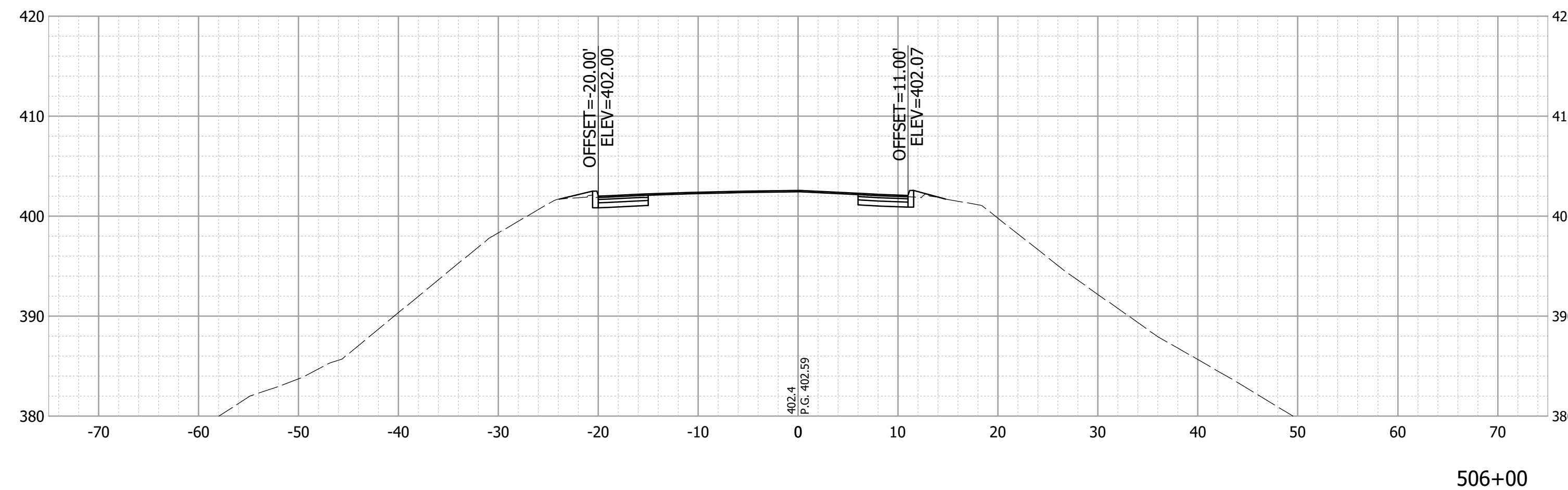
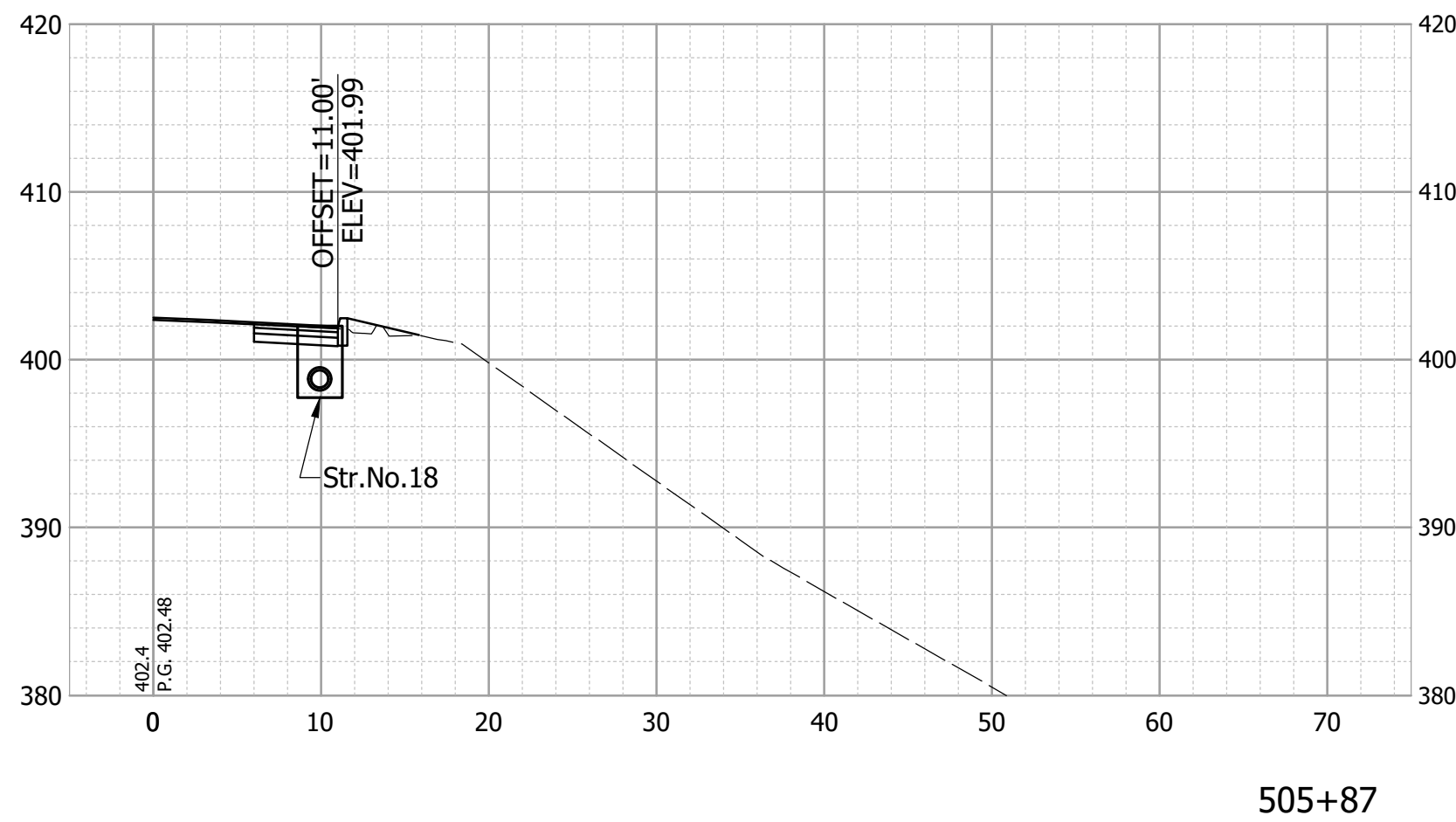
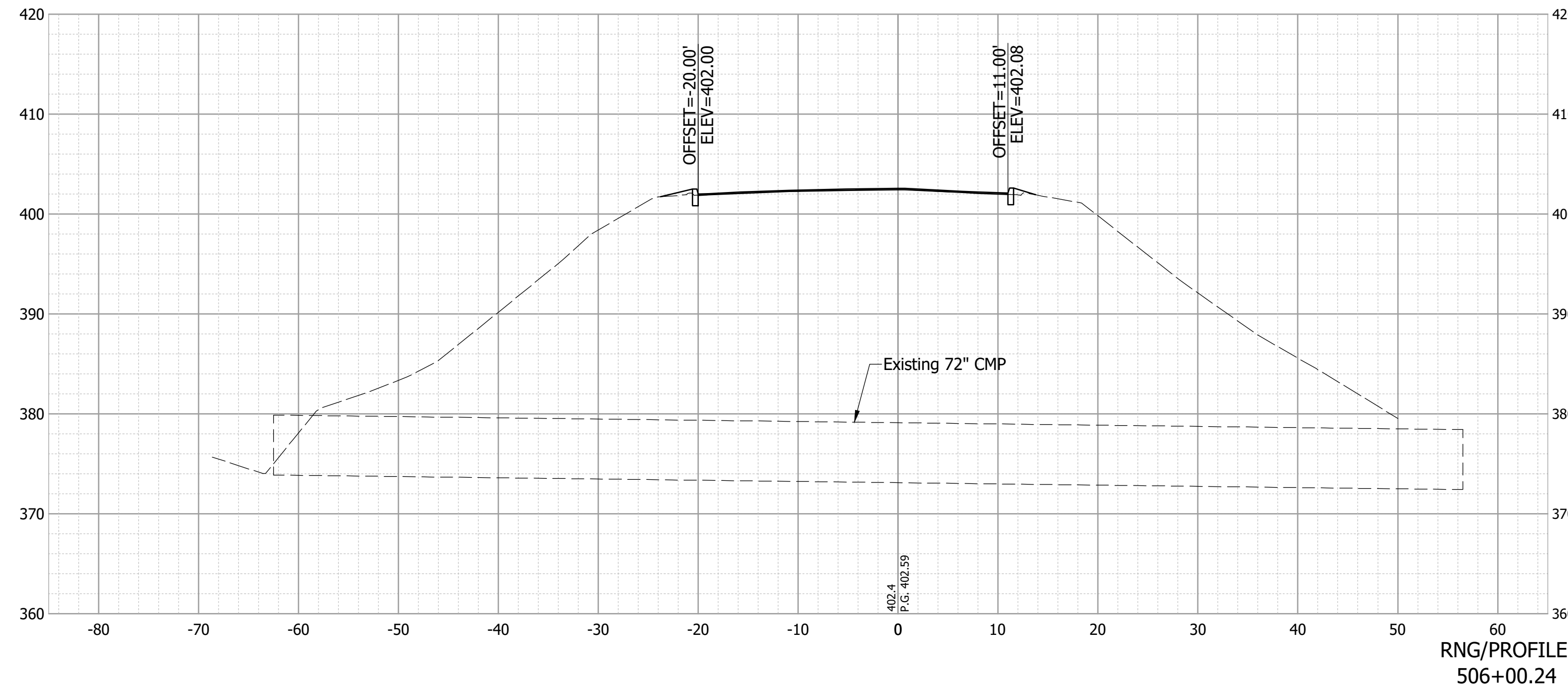
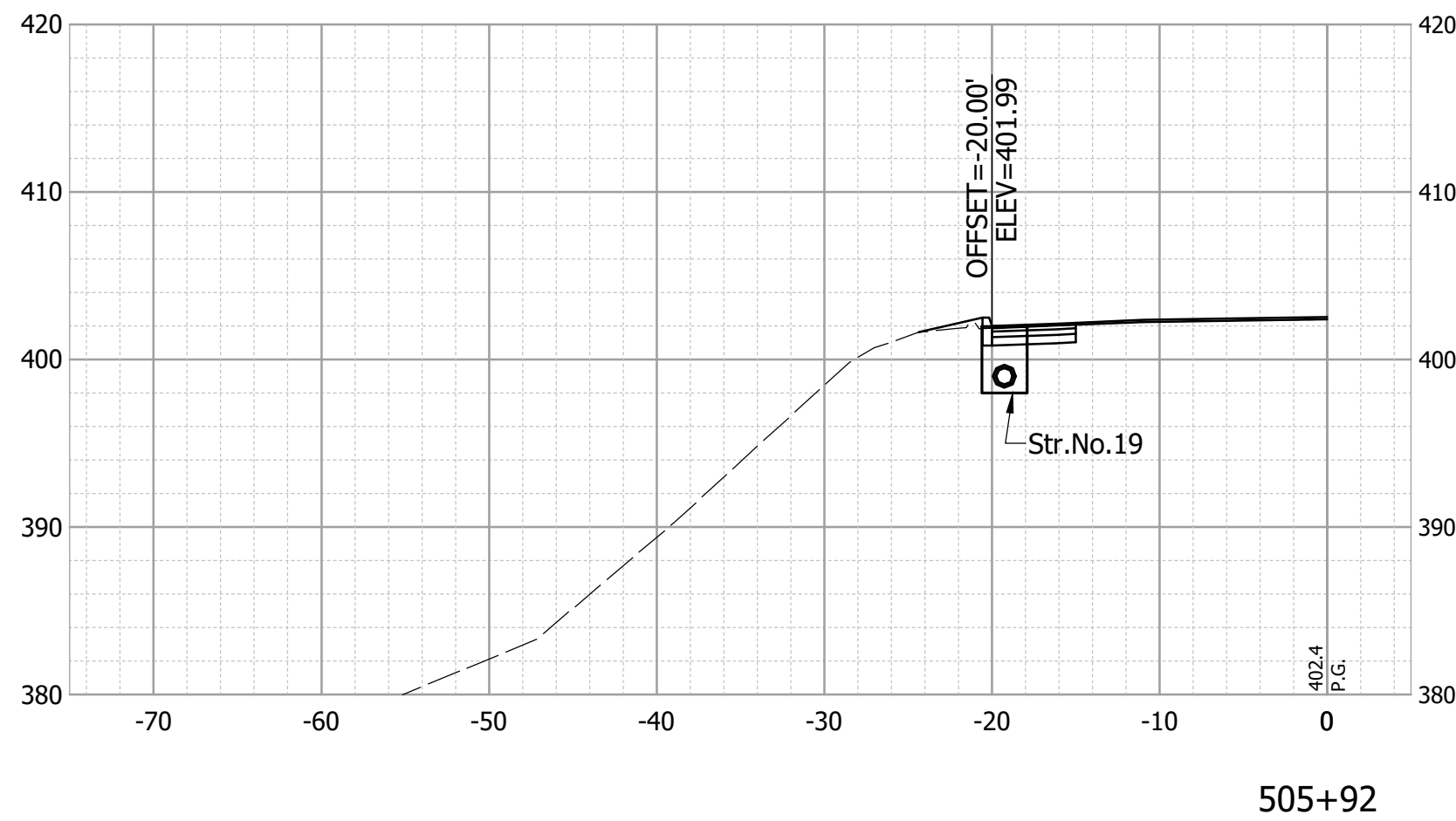
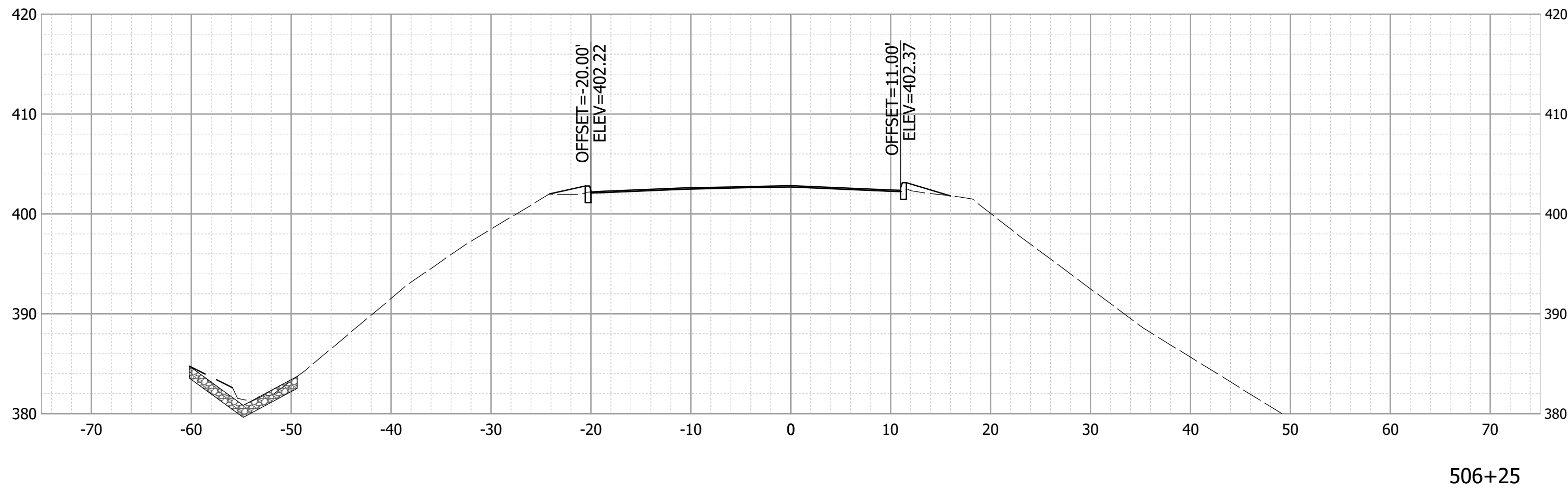
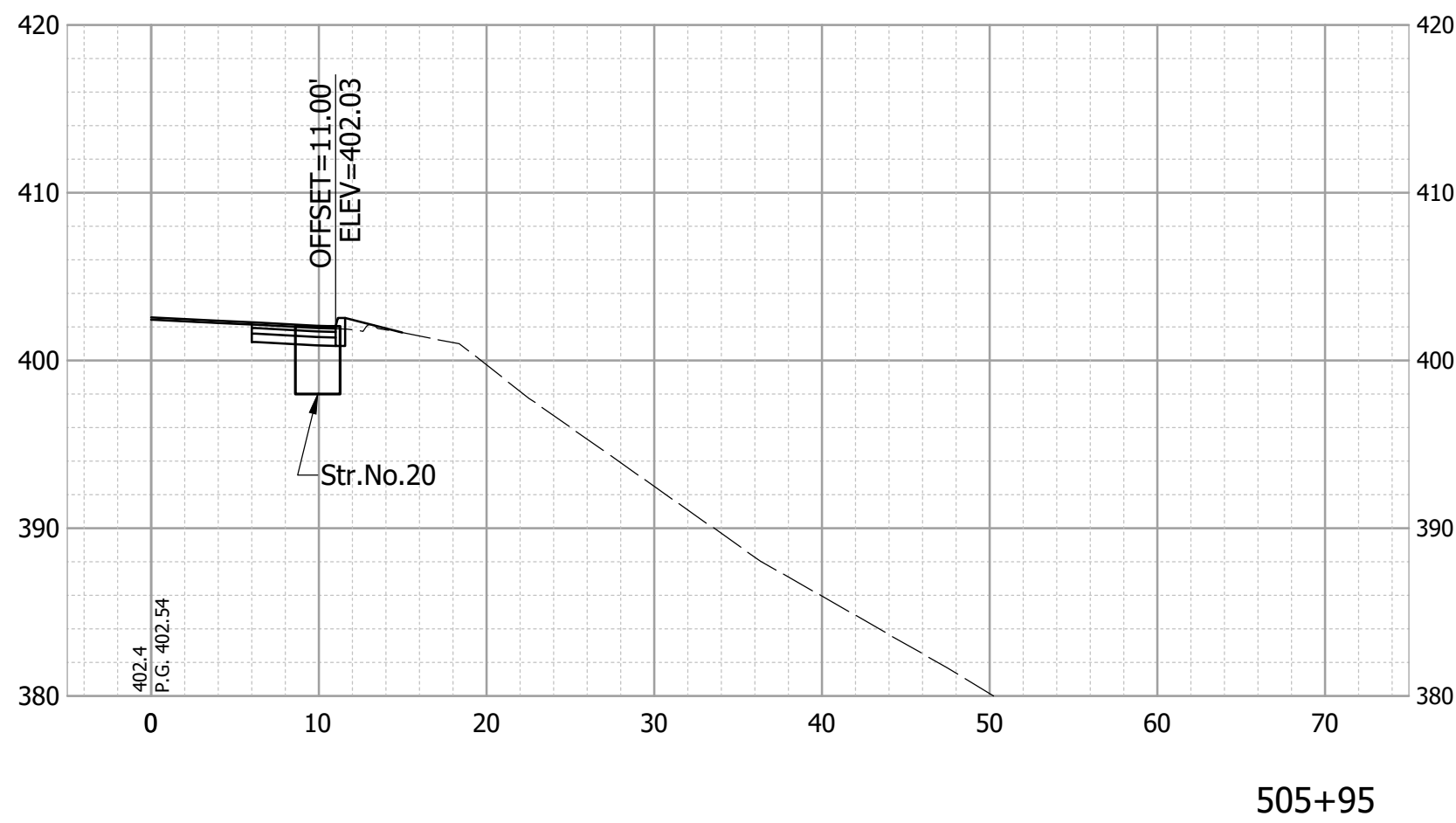
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	07/15/2026 DATE
DESIGNED: _____ DAS	DRAWN: _____ CCW	
CHECKED: _____ NAW	CHECKED: _____ DAS	

INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 10'	BRIDGE FILE	
VERTICAL SCALE ---	DESIGNATION ENG2701728041	
SURVEY BOOK ELECTRONIC	27	of 32
CONTRACT 83955	PROJECT 124-0005	

Date: Jul 10, 2026, 9:42am User Name: Lorie
File: X:\Production\Files\2024\124-0005\PRJ-01\CAD\RD_Xsects\Areas.dwg - (Xsects - (3))



RECOMMENDED
FOR APPROVAL _____
DESIGN ENGINEER _____
DATE 07/15/2026

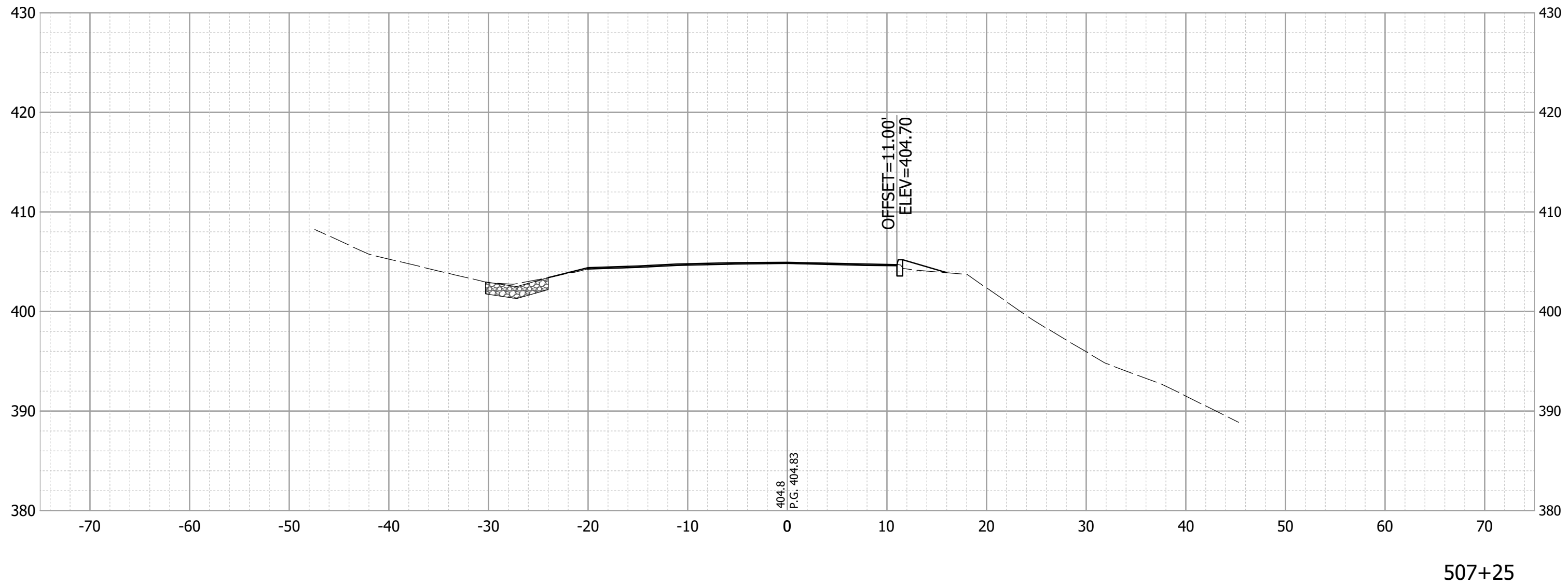
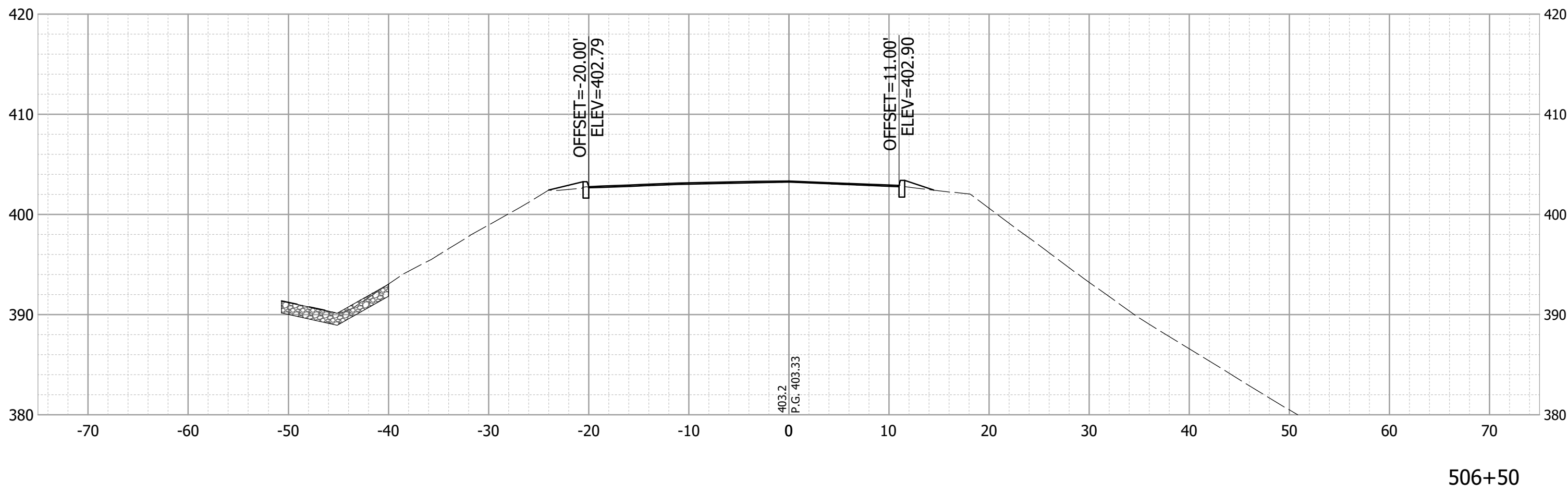
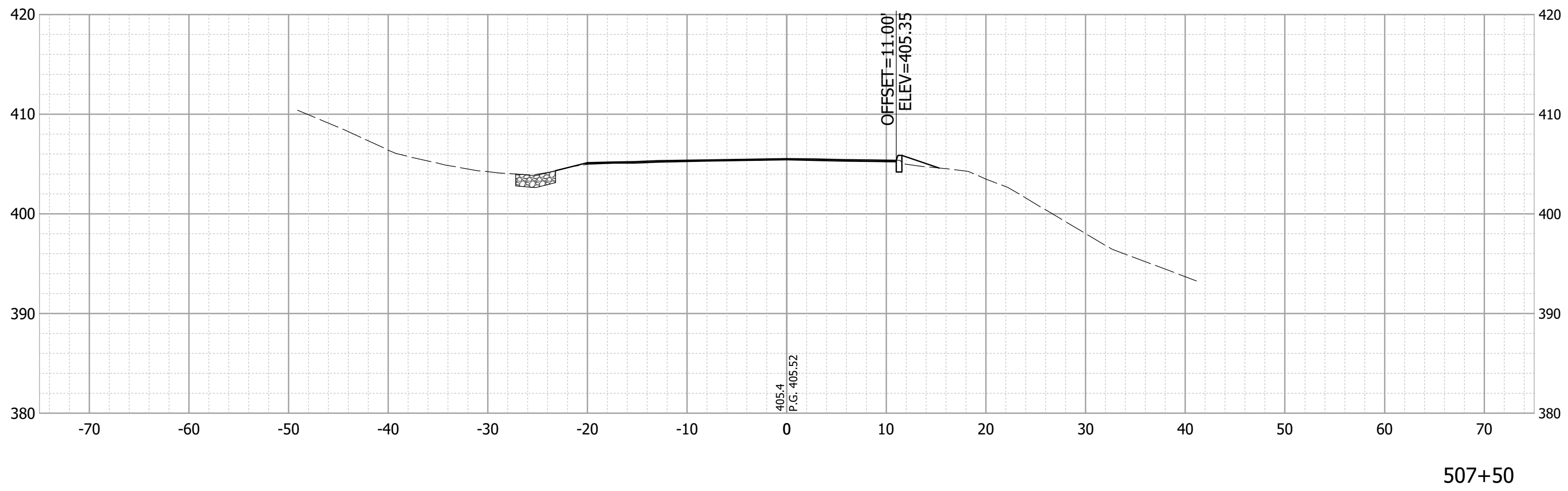
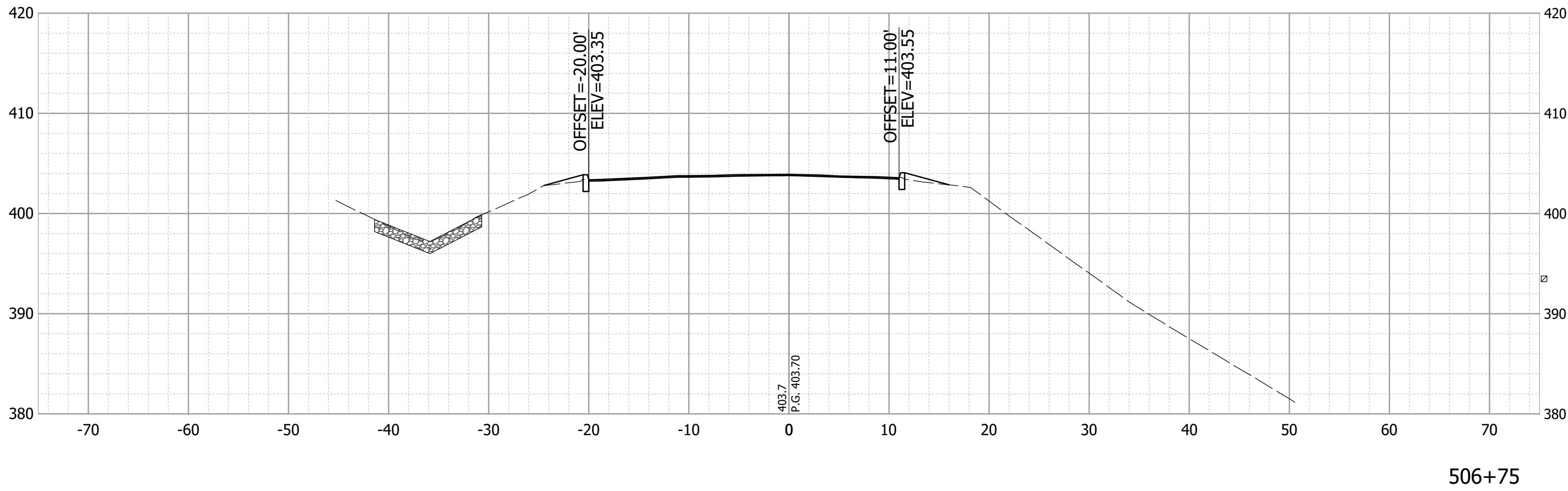
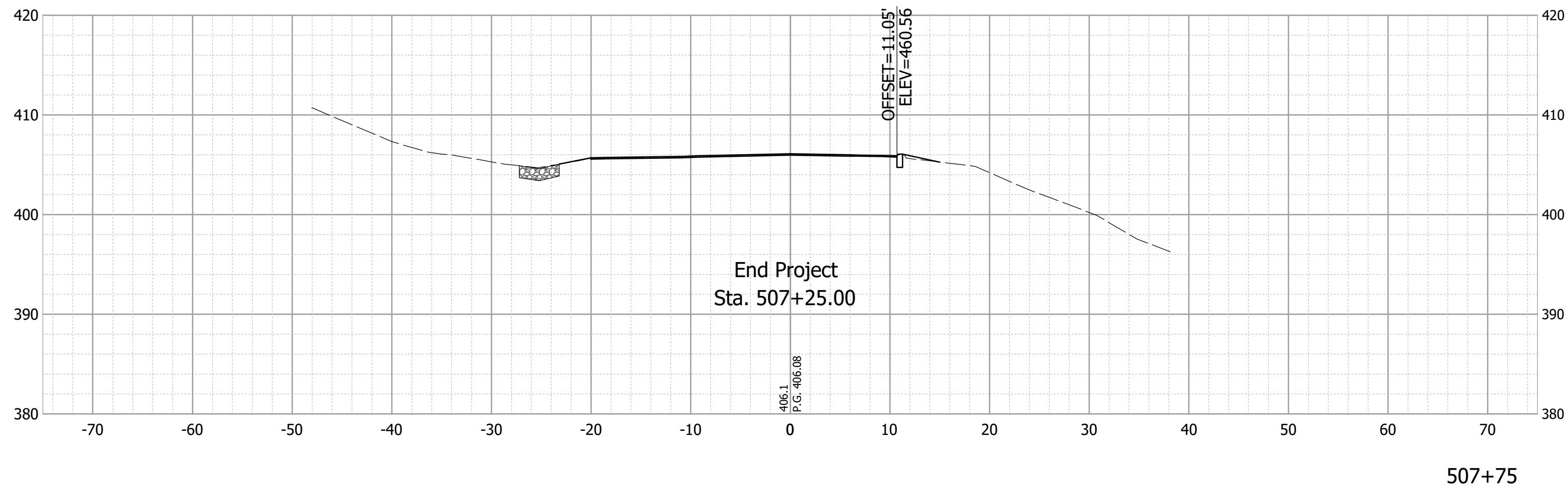
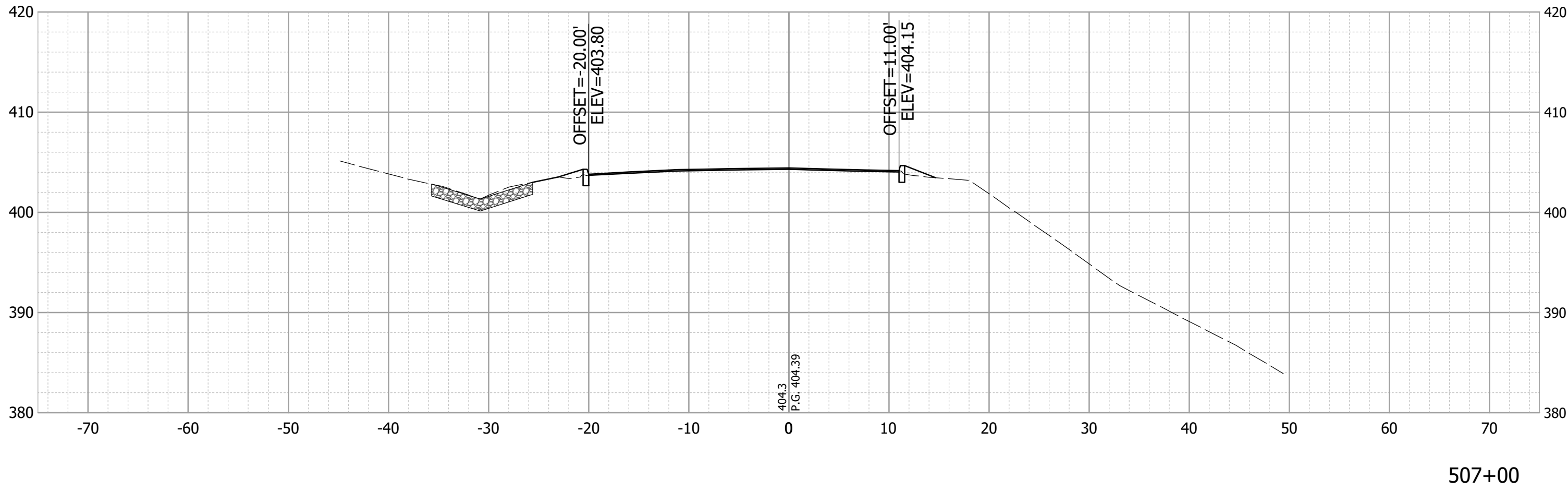
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DRAWN: _____ CCW _____
CHECKED: _____ NAW _____
CHECKED: _____ DAS _____

INDIANA
DEPARTMENT OF NATURAL RESOURCES

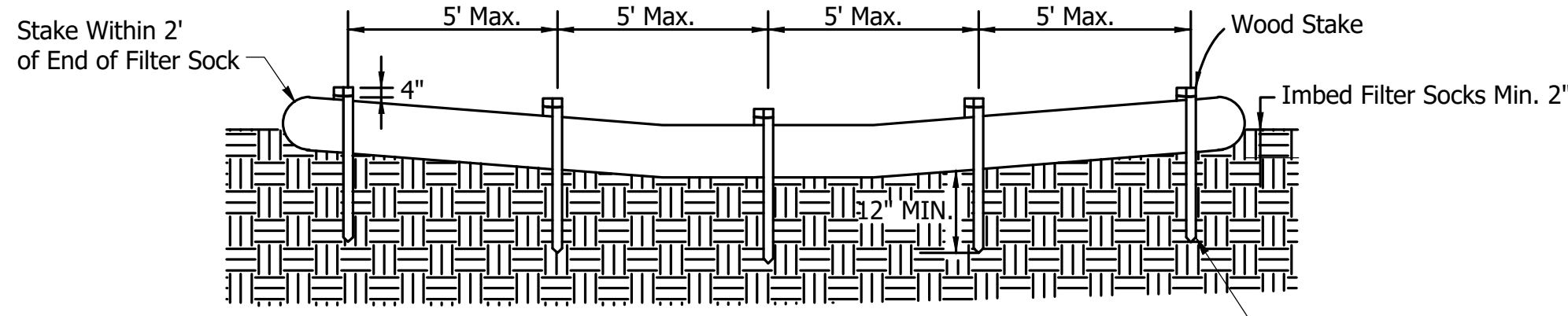
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE		BRIDGE FILE	
1" = 10'		DESIGNATION	
---		ENG2701728041	
SURVEY BOOK		SHEET	
ELECTRONIC		28	of 32
CONTRACT		PROJECT	
83955		124-0005	

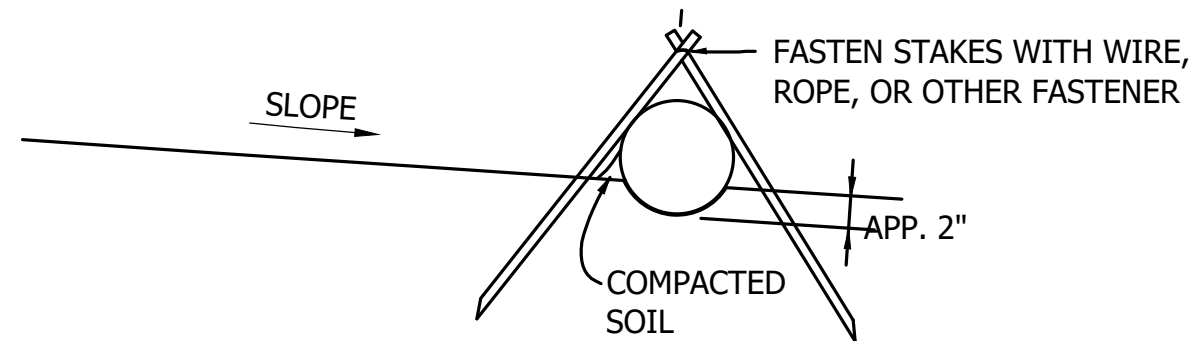
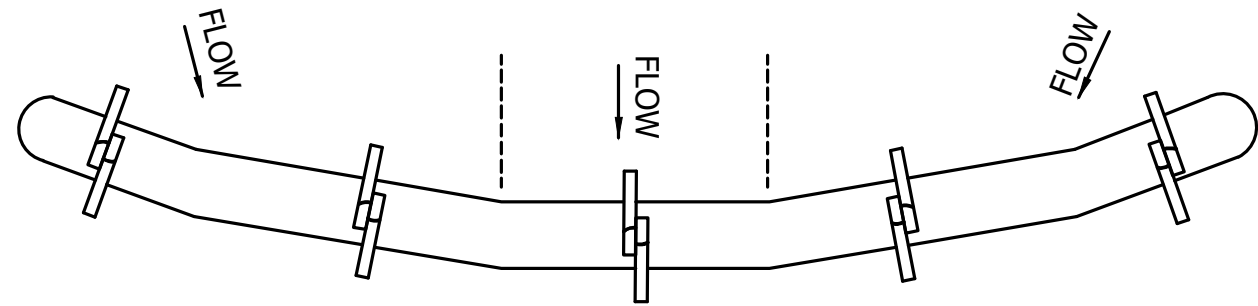
Date: Jul 10, 2026, 9:37am User Name: Lorie
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RECOMMENDED FOR APPROVAL	07/15/2026		INDIANA DEPARTMENT OF NATURAL RESOURCES		HORIZONTAL SCALE		BRIDGE FILE			
	DESIGN ENGINEER	DATE			1" = 10'					
					VERTICAL SCALE		DESIGNATION			
				---		ENG2701728041				
DESIGNED: _____	DAS	DRAWN: _____	CCW	CROSS SECTIONS LINE "A"		SURVEY BOOK		SHEET		
						ELECTRONIC		29	of	32
						CONTRACT		PROJECT		
CHECKED: _____	NAW	CHECKED: _____	DAS			83955		124-0005		



Filter sock joints shall be overlapped a minimum of 4' and staggered a minimum of 5' up the slope.



FS **FILTER SOCK**
Not to Scale

Purpose:

Filter Socks are a temporary barrier consisting of a permeable material contained in a permeable fabric or net matrix installed to intercept and reduce velocity of sheet flow and treat sediment-laden run-off from small unvegetated drainage areas.

Materials and Specifications:

Filter Socks shall be either prefabricated rolls or rolled tubes of erosion control blanket. If rolled tubes of erosion control blanket, the tubes shall be assembled as follows:

- 1.Roll length of erosion control blanket into a tube of minimum 12 in. diameter.
- 2.Bind roll at each end and every 5 ft. along length of roll with jute-type twine.

Installation:

Install and stake the temporary filter socks in the locations and per the details shown on the cross sections and plans and manufactures recommendations. Rolls shall be equally spaced and installed along a level contour. Turn the ends of the rolls up slope such that the point of contact between the ground and the bottom of the fiber roll end terminates at a higher elevation than the top of the fiber roll at its lowest point. If more than one fiber roll is placed in a row, the socks should be overlapped; not abutted.

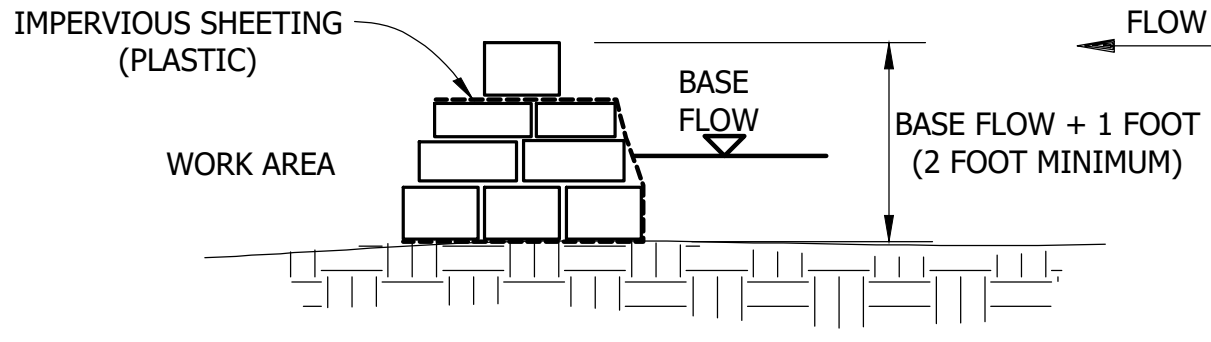
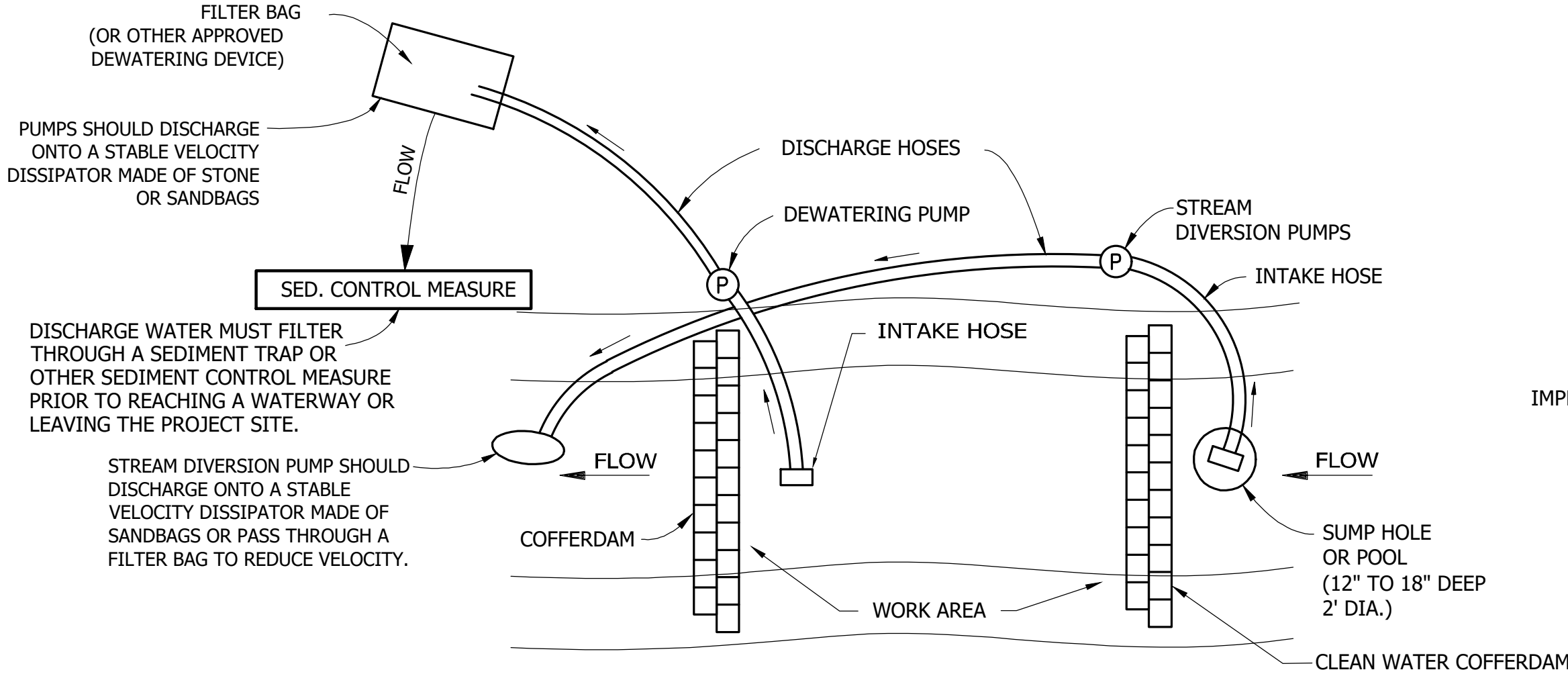
Location:

- * Slope Application
 - Installed on the Contour
 - Five to ten feet from toe of slope (10 feet preferred).
- * Channel/Swale Application
 - Perpendicular to channel flow
 - Less than one acre of drainage
 - Utilize larger product, typically 18 or more inches.

Inspection and Maintenance:

The Contractor shall maintain filter sock in a functional condition at all times and routinely inspect to see if material is functioning properly during storm events. The Contractor shall inspect fiber rolls weekly and within 24 hours of a rainfall event. Repairs to filter socks will be made within 24 hours of failure. The Contractor shall remove sediments collected at the base of the fiber roll when they reach 1/3 of the exposed height of the fiber roll, or as directed by the Engineer.

Note: Approx. location shown on cross section and plan sheet at bridge parallel to creek. Place for field condition to slow velocity of sheet flow to minimized erosion of slopes and trap sediment.



- 1.) Dewatering of the project area shall be performed using a mechanical pump. A dewatering (filter) bag shall be securely connected to the end of the discharge hose. The suction hose shall be floated as long as possible to prevent the pump from pulling sediment from the bottom of the pooled area.
- 2.) The dewatering bag may be of the single-use or reusable variety and shall be constructed of non-woven, polypropylene geotextile material. Each type and size of dewatering bag can handle varying rates of flow. The bag shall meet or exceed following minimum specifications:

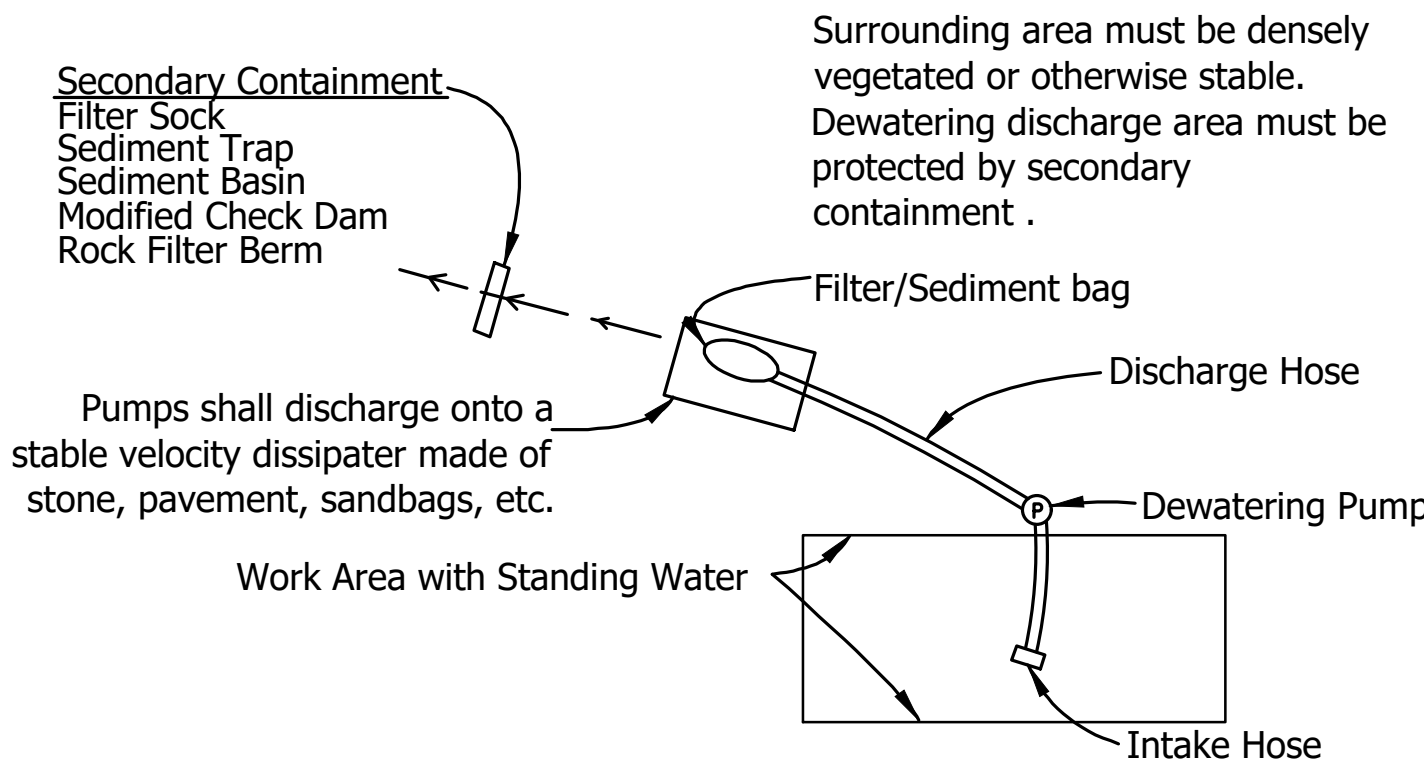
Permittivity	Grab Tensile	Weight	Apparent Opening Size
1.4 sec	205 lbs	8 oz/syd	80 US Sieve
- 3.) The dewatering bag shall be placed on a flat surface. Placing the dewatering bag on top of an aggregate base or straw bales will help to increase flow through the fabric by providing a larger surface area for discharge.
- 4.) Water shall not be pumped from the project area at a rate faster than the manufacturer's maximum recommended flow rate of the dewatering bag.
- 5.) Dewatering bags shall be placed in a location in which runoff will pass through additional sediment control measures prior to entering a waterway or leaving the site.
- 6.) Following completion of dewatering, the sediment accumulated within the dewatering bag shall be removed from the bag and placed in an upland area.

PUMP-AROUND PRACTICE
NOT TO SCALE

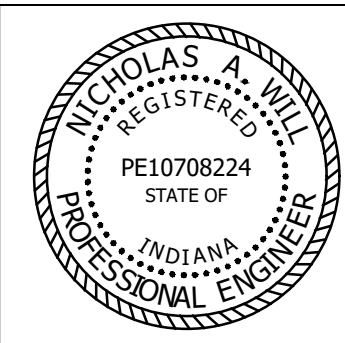
DEWATERING

1. Dewatering of the project area shall be performed using a mechanical pump. A dewatering (filter) bag shall be securely connected to the end of the discharge hose. The suction hose shall be floated as long as possible to prevent the pump from pulling sediment from the bottom of the pooled area.
2. The dewatering bag may be of the single-use or reusable variety and shall be constructed of non-woven, polypropylene geotextile material. Each type and size of dewatering bag can handle varying rates of flow. The bag shall have for following minimum specifications:

Permittivity	Grab Tensile	Weight	Apparent Opening Size
1.4 sec	200 lbs	8 oz/yd ²	80 US Sieve
3. The dewatering bag shall be placed on a flat non-erodible surface. Placing the dewatering bag on top of an aggregate base will help to increase flow through the fabric by providing a larger surface area of discharge and prevent erosion of the supporting soils.
4. Water shall not be pumped from the project area at a rate faster than the manufacturer's maximum recommended flow rate of the dewatering bag.
5. Dewatering bags shall be placed in a location in which runoff will pass through additional sediment control measures prior to entering the channel (i.e. rock filter berm, check dam, sediment trap, etc.).
6. Following completion of dewatering, the sediment accumulated within the dewatering bag shall be removed from the bag and placed in an upland area.



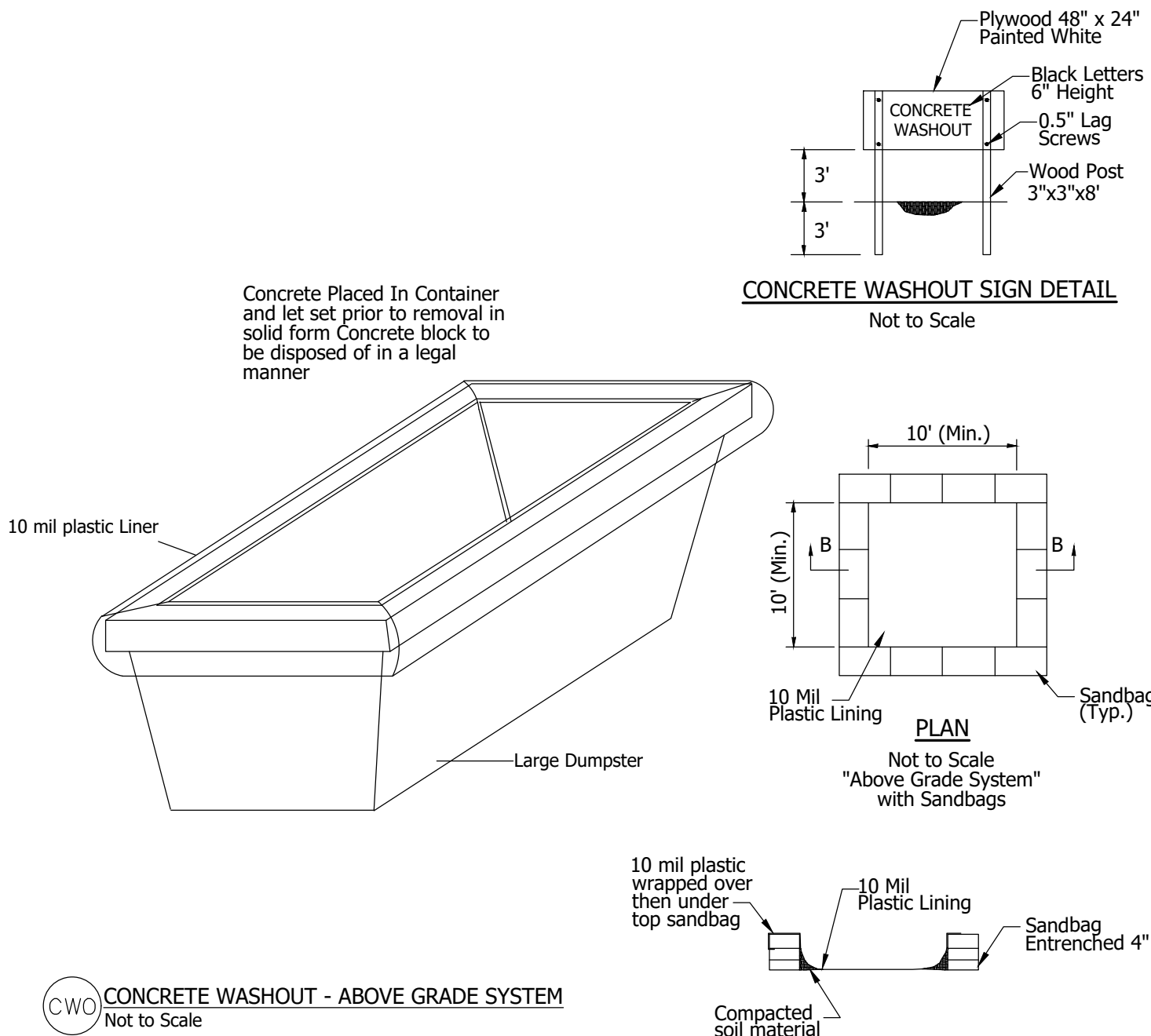
D DEWATERING
NOT TO SCALE



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	DESIGN ENGINEER	07/15/2026	DATE
DESIGNED:	DAS	DRAWN:	CCW	
CHECKED:	NAW	CHECKED:	DAS	

INDIANA DEPARTMENT OF NATURAL RESOURCES
EROSION & SEDIMENT CONTROL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
No Scale	
VERTICAL SCALE	DESIGNATION
---	ENG2701728041
SURVEY BOOK	SHEET
ELECTRONIC	30 of 32
CONTRACT	PROJECT
83955	124-0005



Concrete Washout:
Concrete washout systems can be manufactured systems or systems constructed on site above grade.

- Design Considerations:**
- * Sizing Considerations:
 - ** Storage volume of the containment structure should correlate to the anticipated amount of plastic cementitious material used for construction.
 - ** Washout sizing must include provisions for mortar operations
 - *** Provide source of clean water for washing tools
 - *** Capture washwater and/or transfer to containment structure
 - ** Estimating washwater volumes for concrete deliveries can be highly variable due to weather, air temperature, product slump, concrete temperature, and number of chutes used:
 - *** One method to estimate washwater volume is to use 20 to 40 gallons per ready mix truckload (20 to 40 gallons x total cubic yards (~8 cubic yards per truckload) = total estimated gallons washwater generated)
 - *** For concrete pump trucks allow for a minimum of 50-gallons of washwater per pump use
 - * When sizing washout, contractor must include an additional 25% freeboard to ensure structure will not overtop.
 - * System shall be designed to eliminate run-off and minimize precipitation from entering the washwater containment system.

- Structure Specifications:**
- * Manufactured systems or disposable containments.
 - ** Use the required materials or components according to product specifications.
 - * Structures built on-site must be watertight.
 - ** Must have strength to resist failure or collapse for duration of the project or use.
 - ** Washout systems should be a minimum of ten feet wide by ten feet long, but sized to contain all liquid and waste that is expected to be generated between scheduled clean-out periods.
 - *** Washout size may be limited by the available size of polyethylene.
 - *** Polyethylene lining shall be a single continuous sheet, sufficient to adequately line the entire containment and have a minimum thickness of 10-millimeter.
 - *** Must be durable, resistant to washwater chemistry, and weathering or deterioration.
 - *** Must be free of defects, holes, rips or tears.
 - *** The bottom of the washout shall level and clean of sticks, stumps, rocks and other debris that may penetrate the liner.
 - ** Install signage identifying location of washwater containments/facilities and to discourage disposal of non-washwater materials into washout facilities.
 - * Provide maximum fill level indicator to allow sufficient capacity in the containment to avoid overfilling or overflows.
 - ** Containments shall not be filled beyond 75% of the containment capacity.

FS FILTER SOCK				
Line	From Station	To Station	Location	Length (LFT)
Line "A"				
	105+00	110+00	Lt.	617
	110+00	115+00	Rt.	553
	120+00	125+00	Lt.	208
	125+00	130+00	Rt.	195
			TOTAL	1,573

IP TEMPORARY INLET PROTECTION		
STRUCTURE NUMBER		NO. REQ'D. (EACH)
Line "A"		
15		1
16		1
17		1
18		1
19		1
20		1
	TOTAL:	6

P TEMPORARY PUMP-AROUND	
STATION	NO. REQ'D. (EACH)
Line "A"	
526+97	1
TOTAL:	1

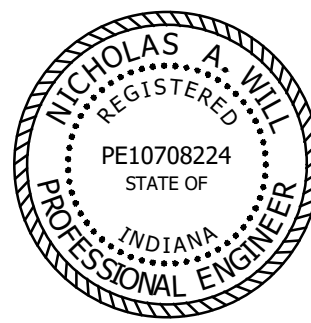
TEMPORARY SEED MIXTURE (0.5 ac)	
Temporary Seeding Mixture (150 lbs/Acre * 1 appl.)	75 lbs

PROJECT QUANTITIES	
Cofferdam - Twin Structures	1 LS
*Concrete Washout (undisturbed locations, locations determined in field)	2 Each

*Not paid for directly

FERTILIZER (0.5 ac)	
Temporary Seeding (0.2 Ton/Acre * 1 appl.)	0.2 Ton

TEMPORARY MULCH (0.5 ac)	
Temporary Mulch (2.5 Ton/Acre * 1 appl.)	2 Ton



RECOMMENDED FOR APPROVAL	<i>Nicholas A. Will</i>	07/15/2026
	DESIGN ENGINEER	DATE
DESIGNED: _____	DAS	DRAWN: _____
		CCW
CHECKED: _____	NAW	CHECKED: _____
		DAS

INDIANA
DEPARTMENT OF NATURAL RESOURCES

EROSION & SEDIMENT CONTROL
DETAILS & TABLES

HORIZONTAL SCALE		BRIDGE FILE	
No Scale			
VERTICAL SCALE		DESIGNATION	
---		ENG2701728041	
SURVEY BOOK		SHEET	
ELECTRONIC		31	of 32
CONTRACT		PROJECT	
83955		124-0005	

CONCRETE CURB						
STATION		STATION		LEFT	RIGHT	LENGTH
						LFT
Line "A"						
503+13		507+10		X		391
503+13		507+75			X	454
504+39 - Curb Turnout				X		7
TOTAL						852

CONCRETE GUTTER, TYPE A				
STATION	STATION	LEFT	RIGHT	LENGTH
				LFT
Line "A"				
503+13	507+75		X	21
504+39 - Curb Turnout		X		4
	TOTAL			25

RIP RAP SUMMARY TABLE						
FROM STATION	TO STATION	LEFT	RIGHT	RIP RAP		
				REVTMENT RIP RAP	CLASS 2 RIP RAP	GEOTEXTILE FOR RIPRAP TYPE 1A
				TONS	TONS	SYS
Line "A"						
503+13	504+58	X		61.2	136.3	
505+62	505+78	X		55.1	72.7	
506+04	507+75	X		120.2	221.8	
504+39 - Curb Turnout		X		16.2	35.4	
526+35	527+40	X				
526+52	527+51	X				
	TOTAL			252.7	536.9	
					978.4	

BOLLARD, WOOD			
LOCATION	LEFT	RIGHT	QUANTITY
			Each
Line "A"			
526+62		X	1
526+67.5		X	1
526+73.1		X	1
526+85		X	1
527+08.7		X	1
527+21.3		X	1
527+33.2		X	1
527+44.9		X	1
527+53.6		X	1
526+91.4	X		1
526+96.3	X		1
527+02.5	X		1
527+16	X		1
527+21.5	X		1
527+27.1	X		1
527+33.2	X		1
527+38.8	X		1
527+44.9	X		1
AREA 1			4
TOTAL			22

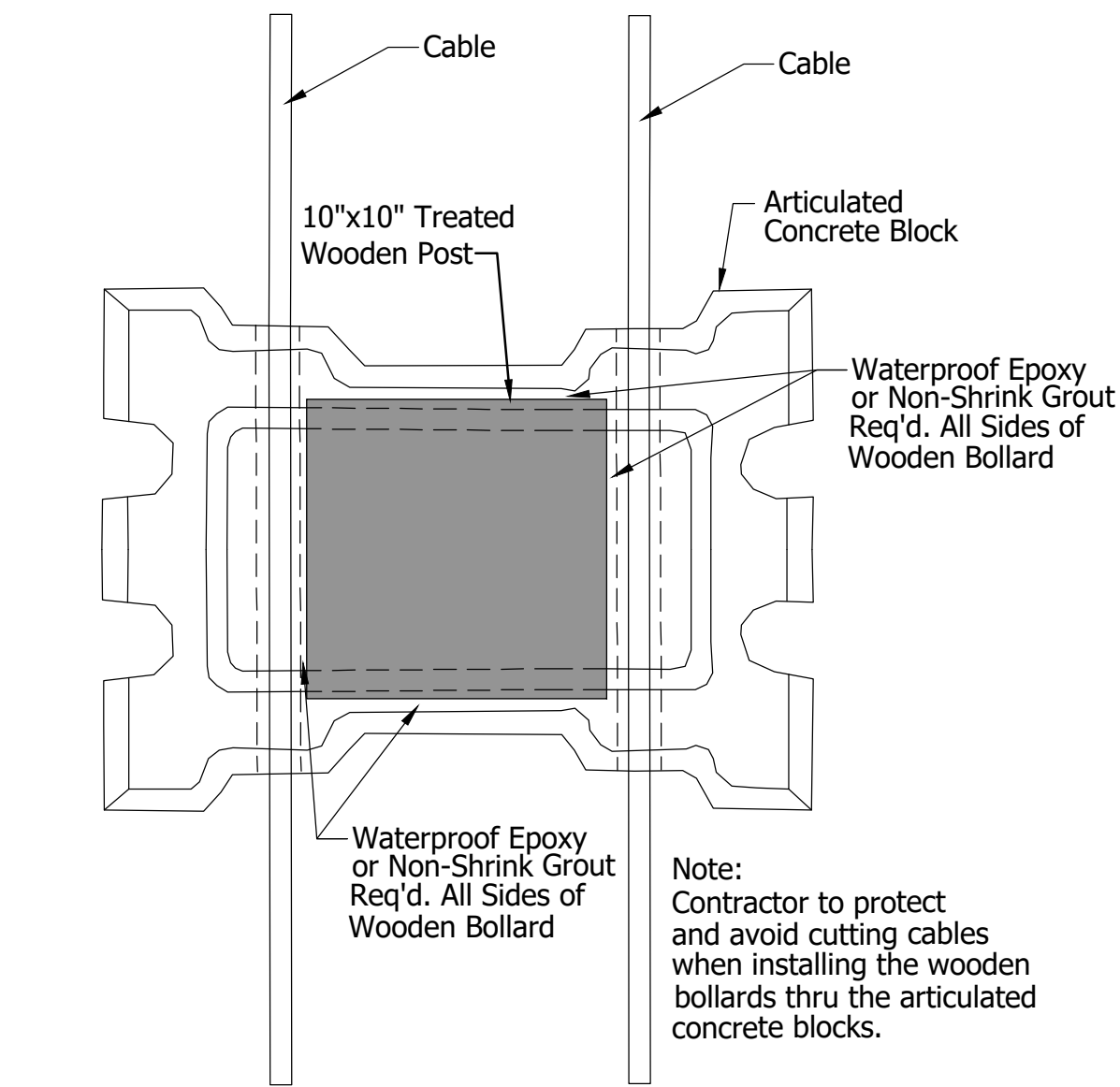
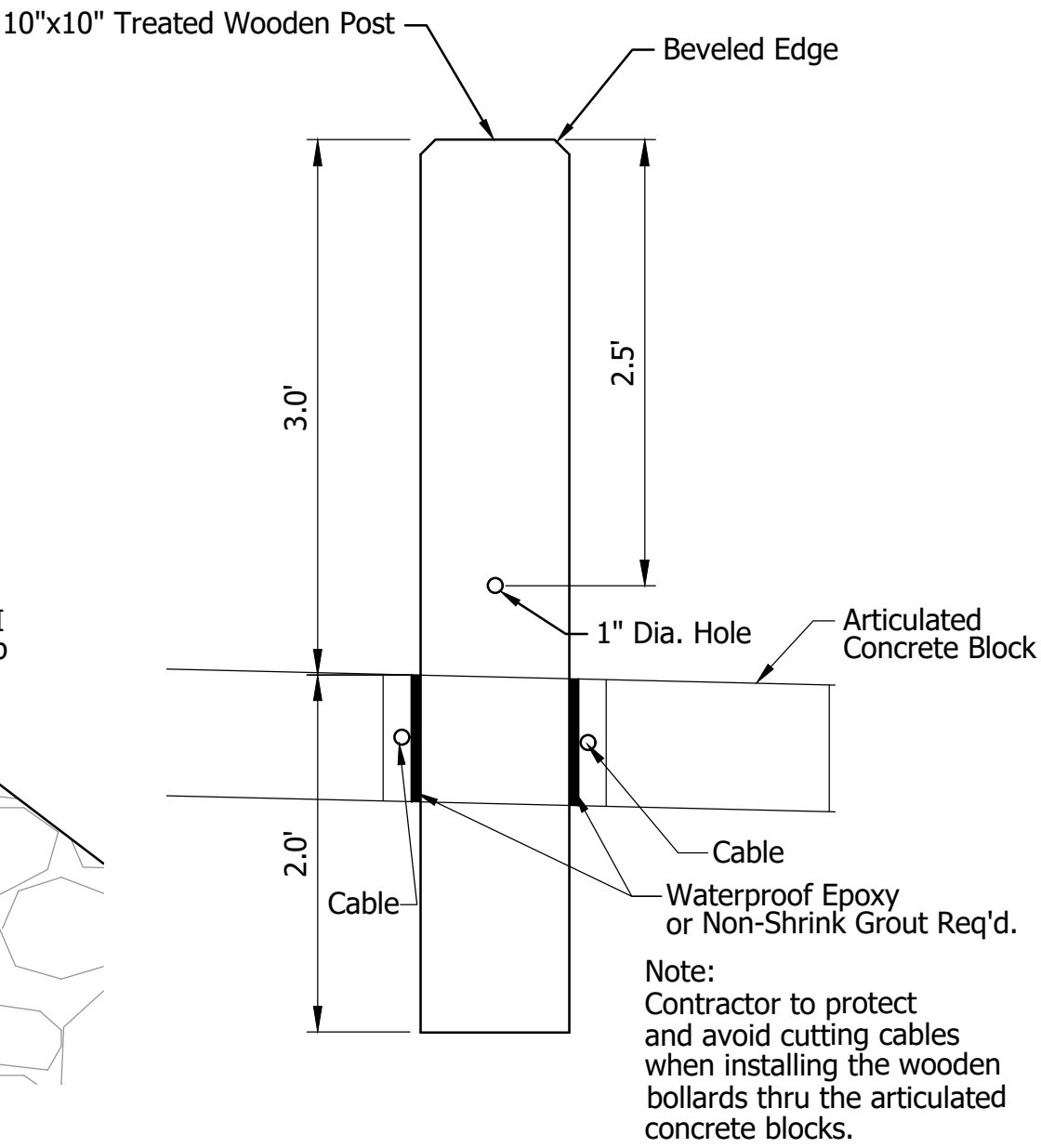


Diagram illustrating the cross-section of a concrete curb and gutter assembly. The assembly consists of a concrete curb, a concrete gutter, and a concrete base. The curb is made of 4,000 PSI Concrete Grout and Articulated Concrete Blocks. The gutter is made of 4,000 PSI Concrete Grout and Class II Rip Rap. The base is made of 4,000 PSI Concrete Grout and Class II Rip Rap. The diagram shows a cross-section of the curb and gutter, with dimensions and materials labeled. A legend indicates that 'A' represents 9" PCCP w/ (15' D-1 Joint Spacing w/ 1.25" Dowel Bar @ 1'-0" c/c) on.

LEGEND

(A) 9" PCCP w/ (15' D-1 Joint Spacing w/ 1.25" Dowel Bar @ 1'-0" c/c) on



RECOMMENDED FOR APPROVAL	<i>Nathan A. Will</i>	07/15/2026
DESIGN ENGINEER		DATE
DESIGNED: <u> </u>	DAS	DRAWN: <u> </u>
		CCW
CHECKED: <u> </u>	NAW	CHECKED: <u> </u>
		DAS

MISCELLANEOUS DETAILS & TABLES

<u>WOODEN BOLLARD DETAIL</u>		
Scale: 1" = 1'		
HORIZONTAL SCALE	BRIDGE FILE	
No Scale		
VERTICAL SCALE	DESIGNATION	
---	ENG2701728041	
SURVEY BOOK	SHEET	
ELECTRONIC	32	of 32
CONTRACT	PROJECT	
83955	124-0005	