

PROJECT	DESIGNATION
ENG2609631099	ENG2609631099
CONTRACT	BRIDGE FILE
	N/A

INDIANA DEPARTMENT OF NATURAL RESOURCES



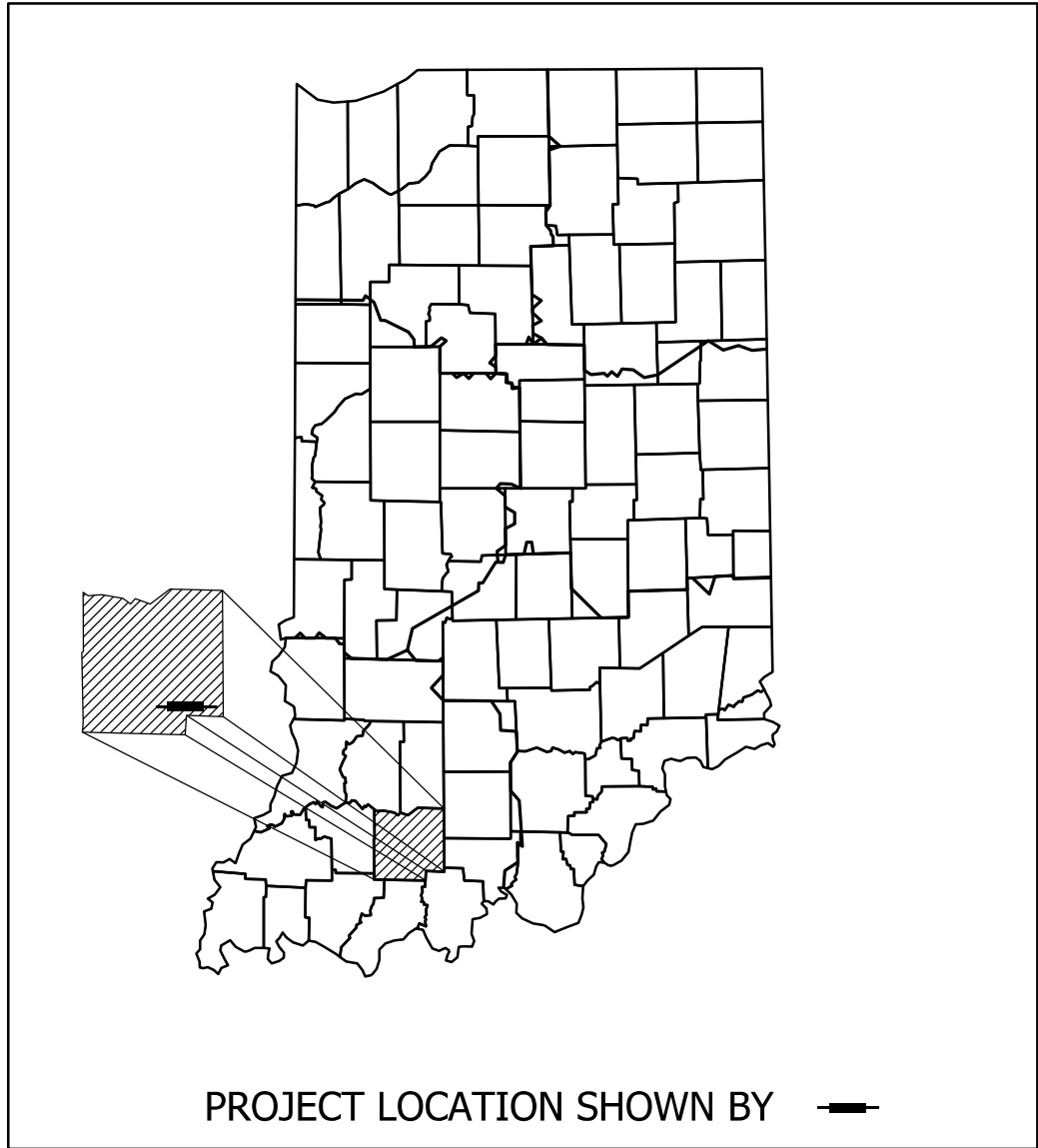
FERDINAND STATE FOREST CULVERTS REPLACEMENTS PROJECT NO. ENG2609631099

TRAFFIC DATA		
A.A.D.T.	(2025)	380 V.P.D.
A.A.D.T.	(2035)	470 V.P.D.
D.H.V	()	V.P.H.
DIRECTIONAL DISTRIBUTION		%
TRUCKS		% A.A.D.T.
		% D.H.V.
DESIGN DATA		
DESIGN SPEED		30 M.P.H.
PROJECT DESIGN CRITERIA		3R, NON-FREEWAY
FUNCTIONAL CLASSIFICATION		RECREATIONAL ROAD
RURAL/URBAN		RURAL
TERRAIN		ROLLING
ACCESS CONTROL		NONE

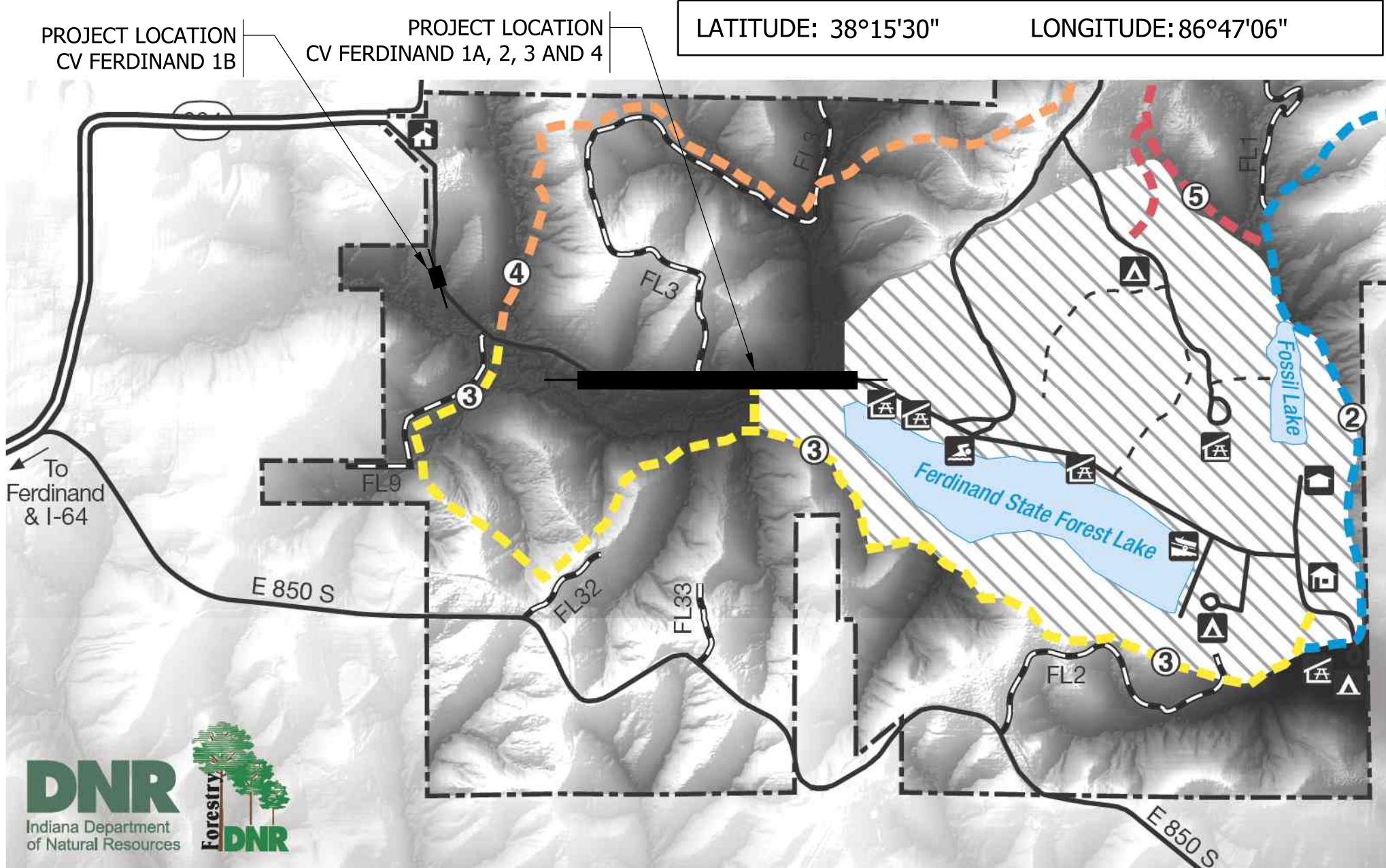
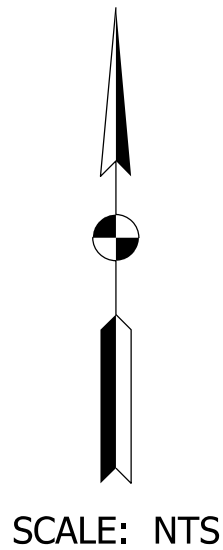
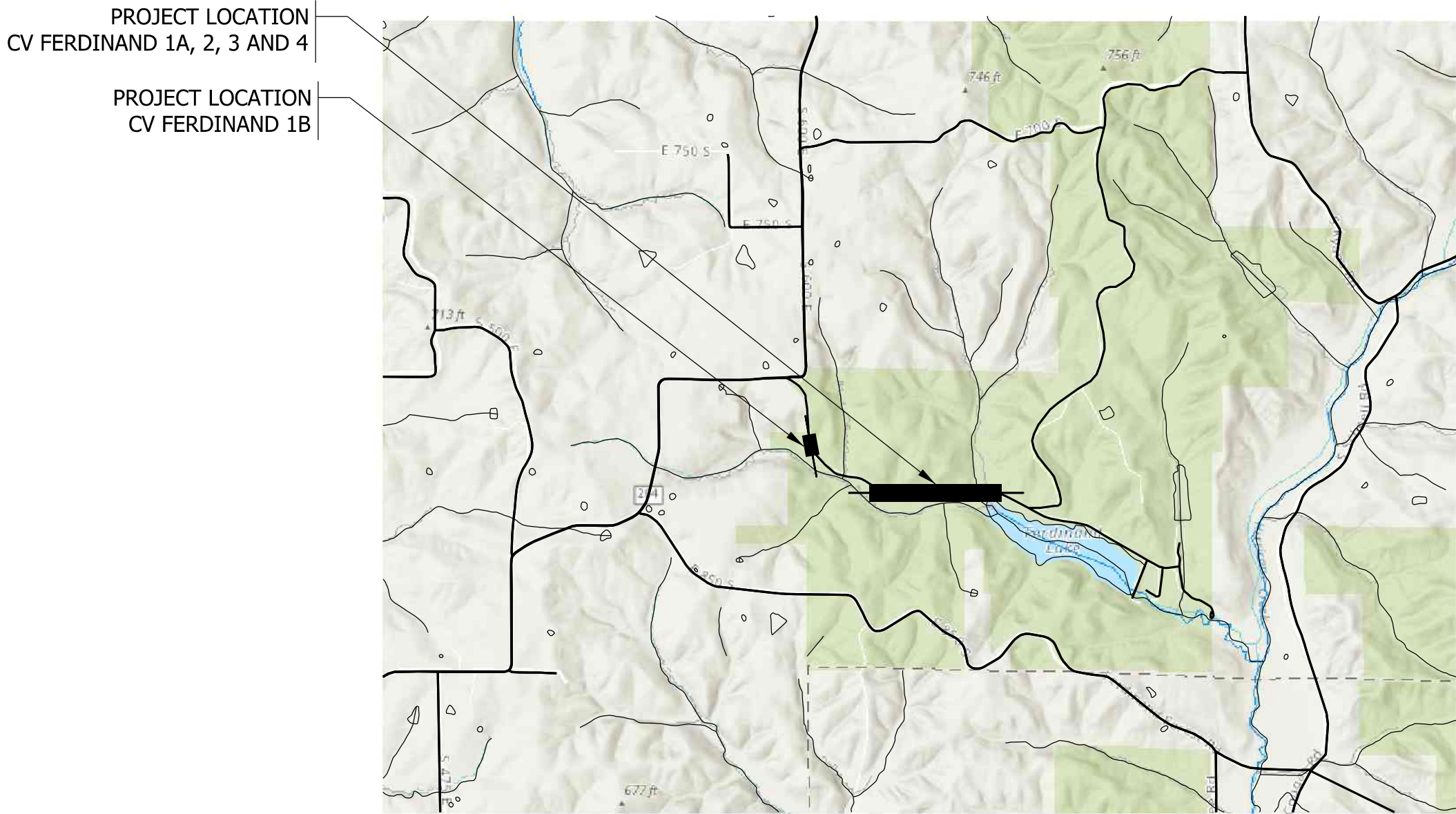
INDEX	
SHEET NO.	DRAWINGS INDEX
1	TITLE SHEET
2 - 5	TYPICAL CROSS SECTION
6 - 7	MAINTENANCE OF TRAFFIC
9 - 10	PLAN AND PROFILE
11	SUPERELEVATION DETAILS
12	SOIL BORINGS
13 - 20	CULVERT DETAILS
21	MASONRY WALL REMOVAL LAYOUT
22 - 24	TEMPORARY EROSION CONTROL PLAN
25	TEMPORARY EROSION CONTROL DETAILS
XS1 - XS16	CROSS SECTIONS

NO ADDITIONAL RIGHT OF WAY
REQUIRED FOR THIS PROJECT

Project Description
SMALL STRUCTURE RELACEMENT ON FERDINAND STATE FOREST
LOCATED APPROX. 0.56 MILES SOUTH EAST OF SR 264
SECTION 18, T-3-S, R-3-W, FERDINAND TOWNSHIP, DUBIOS COUNTY, INDIANA



UTILITIES
Telephone: Perry-Spencer Rural Telephone Coop, Inc. Contact: Jim Ferguson Telephone: (812)-357-2123 Email: jferguson@pscfiber.net Address: 11877 E.State Rd.62. St. Meridian, IN 47577 Water: Indiana Department of Natural Resources Contact: Jamie Winner, Property Manager Telephone: (812)-827-2857 Email: jwinner@dnr.IN.gov Address: 6583 E. SR 264, Ferdinand, IN 47532



LATITUDE: 38°15'30" LONGITUDE: 86°47'06"

VICINITY MAP

DNR FACILITY MAP



FINAL PLANS
JANUARY 9, 2026

LEGEND	
Road	Fire Tower
Property Boundary	Property Office
FL - Fire Lane*	Campground
Hiking Trail**	Boat Launch
Safety Zone	Picnic Shelter
Swimming	Gatehouse
Residence	Water Areas



8790 PURDUE ROAD
INDIANAPOLIS, IN 46268-6128
PHONE: (317) 298-4500

Copyright CMT, Inc.



PLANS PREPARED BY: CRAWFORD, MURPHY & TILLY INC.

PHONE NUMBER

CERTIFIED BY:

1/9/2026

DATE

RECOMMENDED FOR LETTING:

INDIANA DEPARTMENT OF NATURAL RESOURCES

DATE

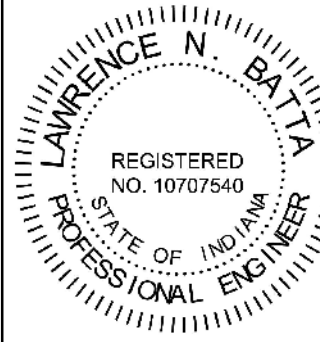
BRIDGE FILE	
N/A	
DESIGNATION	
ENG2609631099	
SHEETS	
SURVEY BOOK	1 of 25
N/A	
CONTRACT	PROJECT
N/A	ENG2609631099

Plot: 1/6/2026 5:41 PM

- LEGEND:
- ① Existing HMA Pavement ±7"
- R1 165 lb/syd QC/QA - HMA, 3, 58S, Surface 9.5mm
- K1 165 lbs/syd QC/QA - HMA, 3, 58S, Surface 9.5mm on
275 lbs/syd QC/QA - HMA, 2, 58S, Intermediate, 19.0mm on
880 lbs/syd QC/QA - HMA, 2, 58S, Base, 19.0mm

- M Milling, Asphalt, 1.5 In.
- G MGS Guardrail, Long Span, Type 1
- S Subgrade Treatment, Type IC on Geogrid, Type IB
- O Variable-Depth Compacted Aggregate, No. 53

- 26 Mulched Seeding, R



RECOMMENDED FOR APPROVAL

L.N. Batta

DESIGN ENGINEER 1/9/2026 DATE

DESIGNED: RK 8/15/2025

DRAWN: BTS 8/15/2025

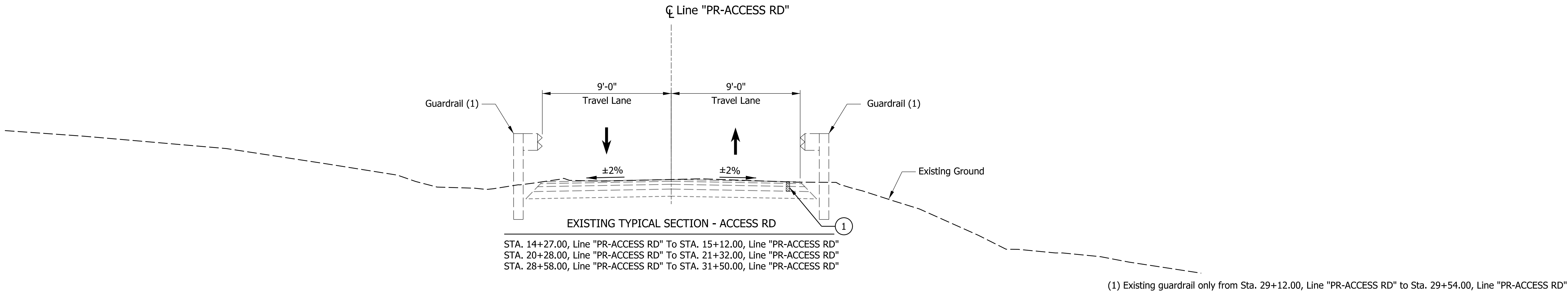
CHECKED: LNB 1/9/2026

CHECKED: RK 1/9/2026

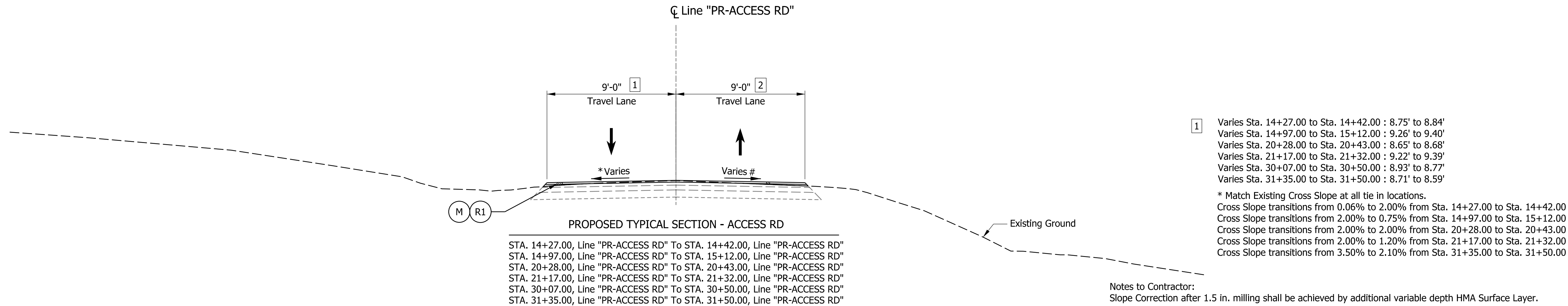
INDIANA
DEPARTMENT OF NATURAL RESOURCES

TYPICAL CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE		BRIDGE FILE	
1/4"=1'		N/A	
VERTICAL SCALE		DESIGNATION	
N/A		ENG2609631099	
SURVEY BOOK		SHEETS	
N/A		2 of 25	
CONTRACT		PROJECT	
N/A		ENG2609631099	

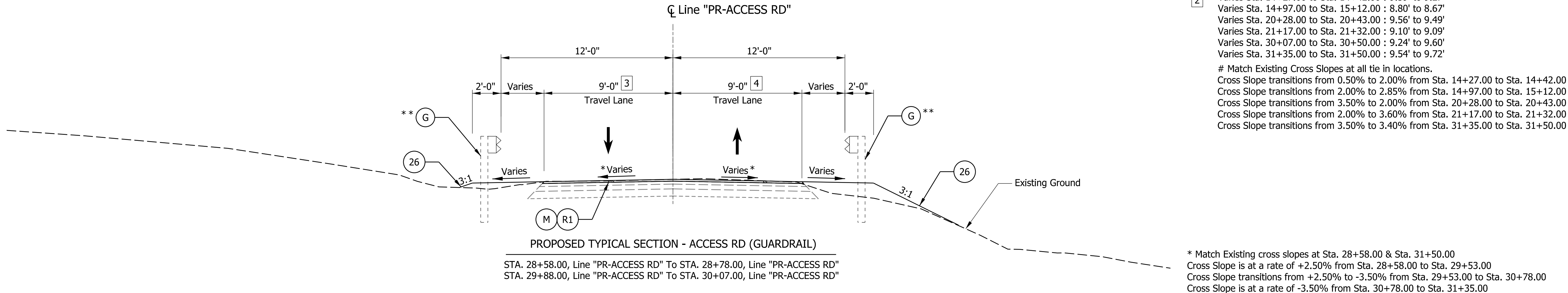


(1) Existing guardrail only from Sta. 29+12.00, Line "PR-ACCESS RD" to Sta. 29+54.00, Line "PR-ACCESS RD"



- ① Varies Sta. 14+27.00 to Sta. 14+42.00 : 8.75' to 8.84'
Varies Sta. 14+97.00 to Sta. 15+12.00 : 9.26' to 9.40'
Varies Sta. 20+28.00 to Sta. 20+43.00 : 8.65' to 8.68'
Varies Sta. 21+17.00 to Sta. 21+32.00 : 9.22' to 9.39'
Varies Sta. 30+07.00 to Sta. 30+50.00 : 8.93' to 8.77'
Varies Sta. 31+35.00 to Sta. 31+50.00 : 8.71' to 8.59'
- * Match Existing Cross Slope at all tie in locations.
Cross Slope transitions from 0.06% to 2.00% from Sta. 14+27.00 to Sta. 14+42.00
Cross Slope transitions from 2.00% to 0.75% from Sta. 14+97.00 to Sta. 15+12.00
Cross Slope transitions from 2.00% to 2.00% from Sta. 20+28.00 to Sta. 20+43.00
Cross Slope transitions from 2.00% to 1.20% from Sta. 21+17.00 to Sta. 21+32.00
Cross Slope transitions from 3.50% to 2.10% from Sta. 31+35.00 to Sta. 31+50.00

Notes to Contractor:
Slope Correction after 1.5 in. milling shall be achieved by additional variable depth HMA Surface Layer.



- ② Varies Sta. 14+27.00 to Sta. 14+42.00 : 9.39' to 9.27'
Varies Sta. 14+97.00 to Sta. 15+12.00 : 8.80' to 8.67'
Varies Sta. 20+28.00 to Sta. 20+43.00 : 9.56' to 9.49'
Varies Sta. 21+17.00 to Sta. 21+32.00 : 9.10' to 9.09'
Varies Sta. 30+07.00 to Sta. 30+50.00 : 9.24' to 9.60'
Varies Sta. 31+35.00 to Sta. 31+50.00 : 9.54' to 9.72'
- # Match Existing Cross Slopes at all tie in locations.
Cross Slope transitions from 0.50% to 2.00% from Sta. 14+27.00 to Sta. 14+42.00
Cross Slope transitions from 2.00% to 2.85% from Sta. 14+97.00 to Sta. 15+12.00
Cross Slope transitions from 3.50% to 2.00% from Sta. 20+28.00 to Sta. 20+43.00
Cross Slope transitions from 2.00% to 3.60% from Sta. 21+17.00 to Sta. 21+32.00
Cross Slope transitions from 3.50% to 3.40% from Sta. 31+35.00 to Sta. 31+50.00

* Match Existing cross slopes at Sta. 28+58.00 & Sta. 31+50.00
Cross Slope is at a rate of +2.50% from Sta. 28+58.00 to Sta. 29+53.00
Cross Slope transitions from +2.50% to -3.50% from Sta. 29+53.00 to Sta. 30+78.00
Cross Slope is at a rate of -3.50% from Sta. 30+78.00 to Sta. 31+50.00

** Guardrail begins at Sta. 28+61.13 & ends at Sta. 30+04.88

- ③ Varies Sta. 28+58.00 to Sta. 28+78.00: 8.46' to 8.32'
Varies Sta. 29+88.00 to Sta. 30+07.00: 9.01' to 8.93'

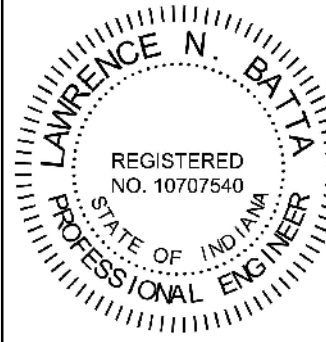
- ④ Varies Sta. 28+58.00 to Sta. 28+78.00: 9.63' to 9.60'
Varies Sta. 29+88.00 to Sta. 30+07.00: 9.09' to 9.24'

Plot: 1/6/2026 5:41 PM

- LEGEND:
- 1 Existing HMA Pavement ±7"
 - R1 165 lb/syd QC/QA - HMA, 3, 58S, Surface 9.5mm
 - K1 165 lbs/syd QC/QA - HMA, 3, 58S, Surface 9.5mm on 275 lbs/syd QC/QA - HMA, 2, 58S, Intermediate, 19.0mm on 880 lbs/syd QC/QA - HMA, 2, 58S, Base, 19.0mm

- M Milling, Asphalt, 1.5 In.
- G MGS Guardrail, Long Span, Type 1
- S Subgrade Treatment, Type IC on Geogrid, Type IB
- O Variable-Depth Compacted Aggregate, No. 53

- 26 Mulched Seeding, R



RECOMMENDED FOR APPROVAL

L.N. Batta

DESIGN ENGINEER

1/9/2026 DATE

DESIGNED: RK 8/15/2025

DRAWN: BTS 8/15/2025

CHECKED: LNB 1/9/2026

CHECKED: RK 1/9/2026

INDIANA
DEPARTMENT OF NATURAL RESOURCES

TYPICAL CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE

1/4"=1'

VERTICAL SCALE

N/A

SURVEY BOOK

N/A

CONTRACT

N/A

BRIDGE FILE

N/A

DESIGNATION

ENG2609631099

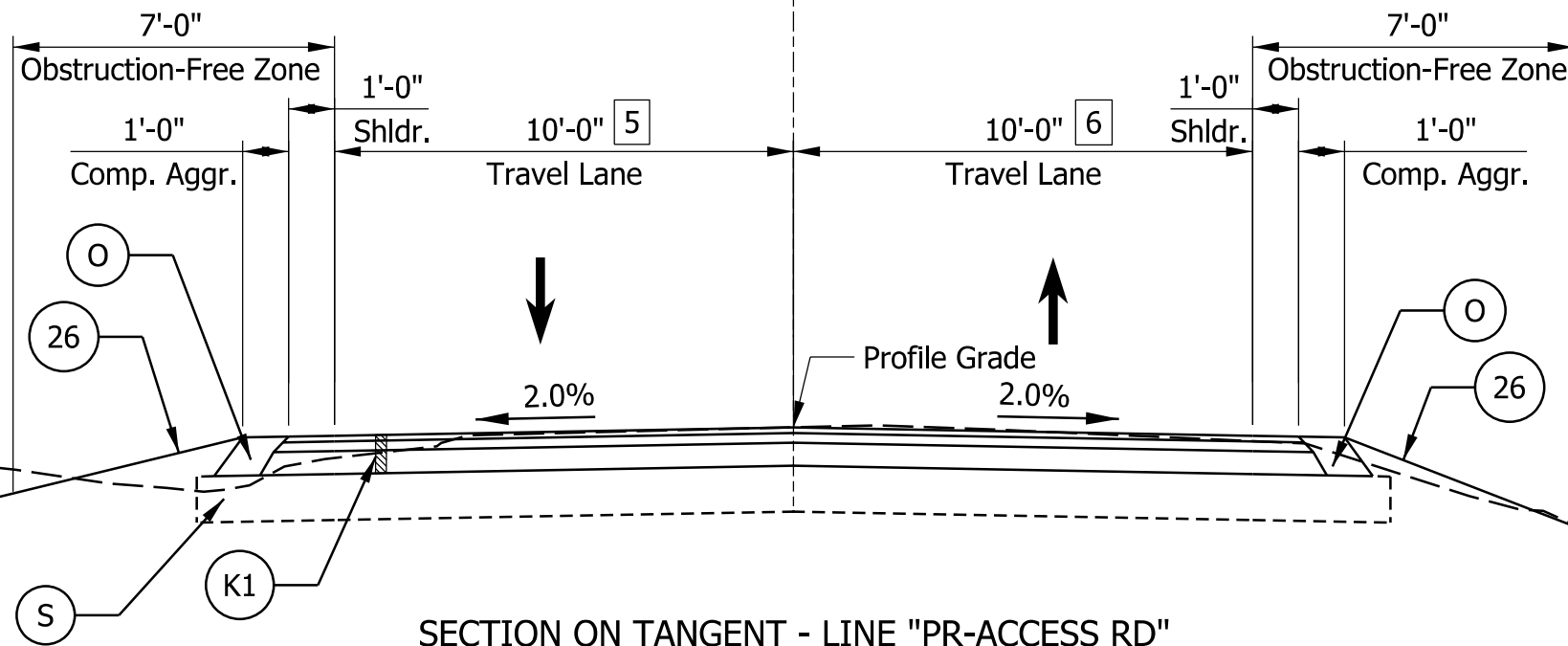
SHEETS

3 of 25

PROJECT

ENG2609631099

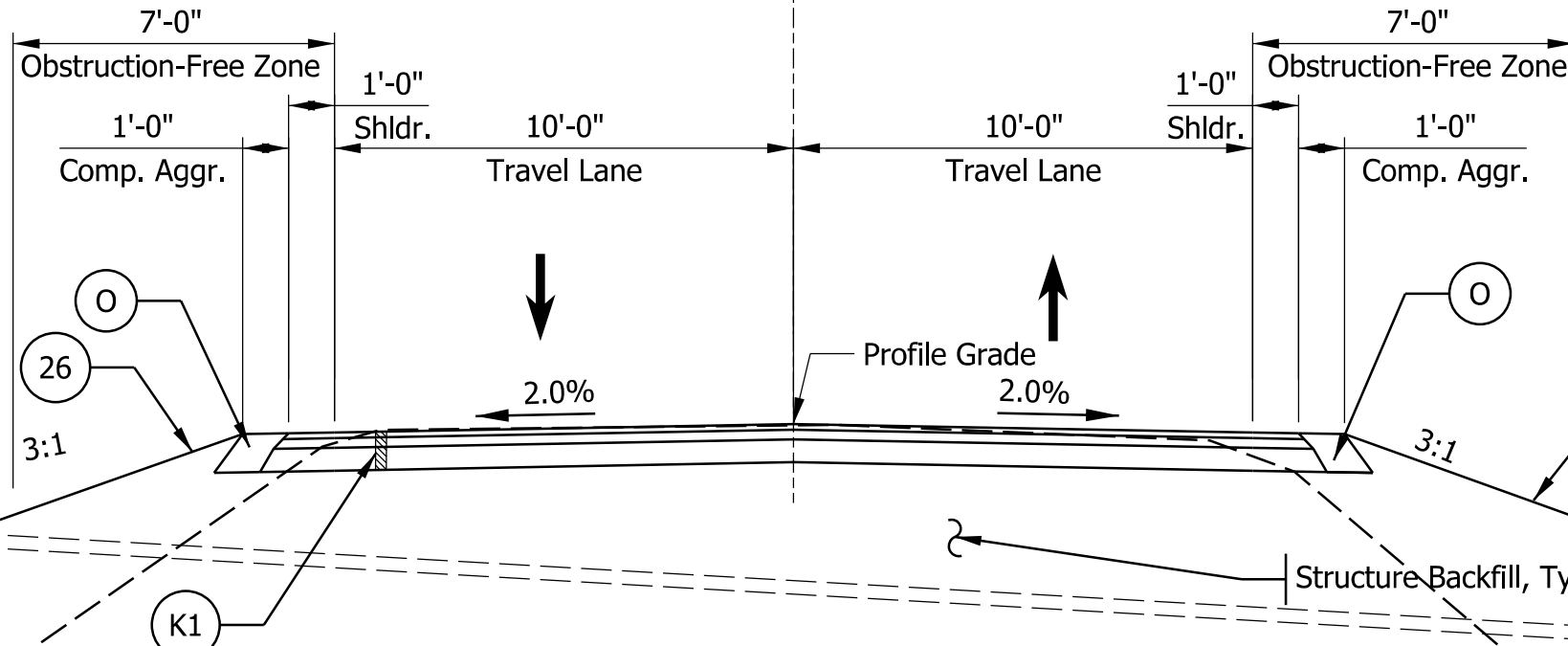
CL Line "PR-ACCESS RD"



SECTION ON TANGENT - LINE "PR-ACCESS RD"

STA. 14+42.00, Line "PR-ACCESS RD" To STA. 14+66.95, Line "PR-ACCESS RD"
STA. 14+70.05, Line "PR-ACCESS RD" To STA. 14+97.00, Line "PR-ACCESS RD"
STA. 20+43.00, Line "PR-ACCESS RD" To STA. 20+77.00, Line "PR-ACCESS RD"
STA. 20+83.00, Line "PR-ACCESS RD" To STA. 21+17.00, Line "PR-ACCESS RD"

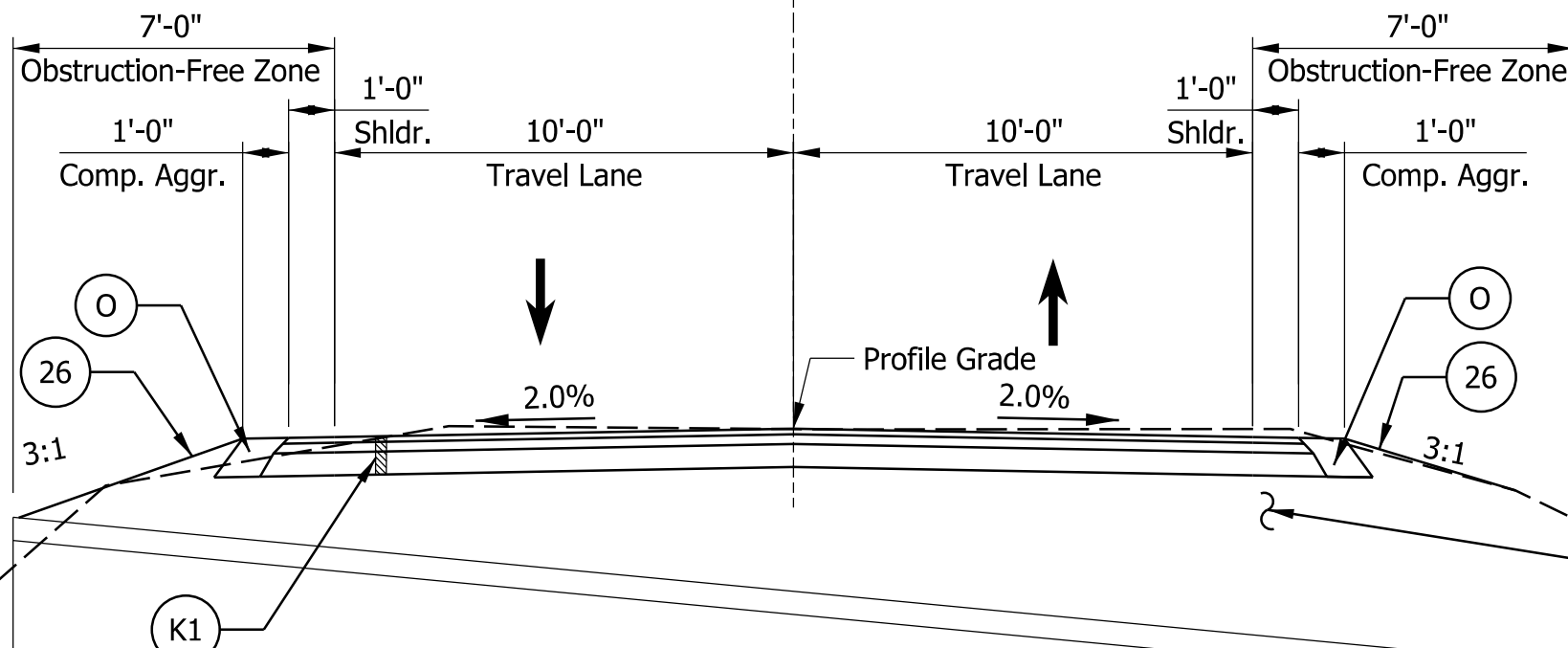
CL Line "PR-ACCESS RD"



SECTION ON TANGENT - LINE "PR-ACCESS RD" (SKEW 6° LT)

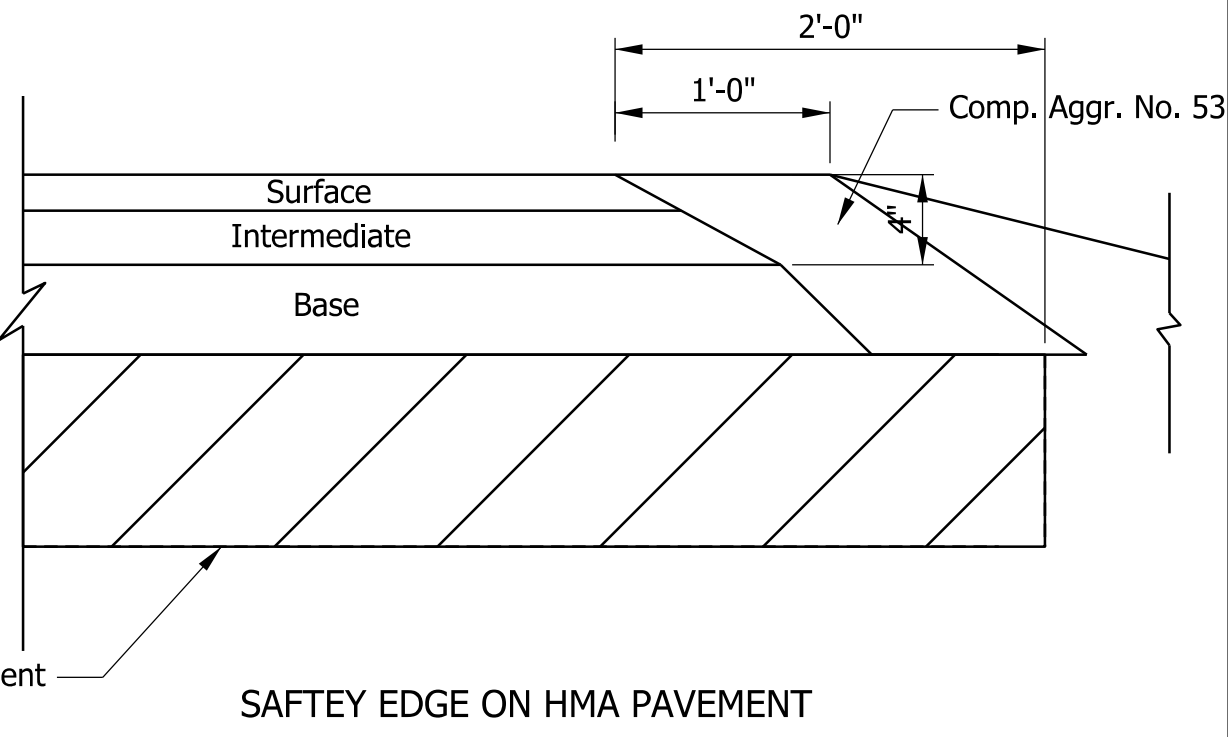
STA. 14+66.95, Line "PR-ACCESS RD" To STA. 14+70.05, Line "PR-ACCESS RD"

CL Line "PR-ACCESS RD"



SECTION ON TANGENT - LINE "PR-ACCESS RD"

STA. 20+77.00, Line "PR-ACCESS RD" To STA. 20+83.00, Line "PR-ACCESS RD"



SAFTEY EDGE ON HMA PAVEMENT

SCALE: NOT TO SCALE

Varies Sta. 14+42.00 to Sta. 14+57.00 : 8.84' to 10.00'
Varies Sta. 14+57.00 to Sta. 14+66.95 : 10.00' to 10.00'
Varies Sta. 14+70.05 to Sta. 14+82.00 : 10.00' to 10.00'
Varies Sta. 14+82.00 to Sta. 14+97.00 : 10.00' to 9.26'

Varies Sta. 20+43.00 to Sta. 20+68.00 : 8.68' to 10.00'
Varies Sta. 20+68.00 to Sta. 20+77.00 : 10.00' to 10.00'
Varies Sta. 20+83.00 to Sta. 20+92.00 : 10.00' to 10.00'
Varies Sta. 20+92.00 to Sta. 21+17.00 : 10.00' to 9.22'

Varies Sta. 14+42.00 to Sta. 14+57.00 : 9.27' to 10.00'
Varies Sta. 14+57.00 to Sta. 14+66.95 : 10.00' to 10.00'
Varies Sta. 14+70.05 to Sta. 14+82.00 : 10.00' to 10.00'
Varies Sta. 14+82.00 to Sta. 14+97.00 : 10.00' to 8.80'

Varies Sta. 20+43.00 to Sta. 20+68.00 : 9.49' to 10.00'
Varies Sta. 20+68.00 to Sta. 20+77.00 : 10.00' to 10.00'
Varies Sta. 20+83.00 to Sta. 20+92.00 : 10.00' to 10.00'
Varies Sta. 20+92.00 to Sta. 21+17.00 : 10.00' to 9.10'

From Sta. 14+63.00 to Sta. 14+74.00
Subgrade Treatment, Type IC on Geogrid, Type IB Exception Limits and Structural Backfill, Type 2 Limits

Existing Ground

From Sta. 20+73.00 to Sta. 20+87.00
Subgrade Treatment, Type IC on Geogrid, Type IB Exception Limits and Structural Backfill, Type 2 Limits

Existing Ground

Plot: 1/6/2026 5:41 PM

LEGEND:

- 1

Existing HMA Pavement ±7"
- R1

165 lbs/syd QC/QA - HMA, 3, 58S, Surface 9.5mm
- K1

165 lbs/syd QC/QA - HMA, 3, 58S, Surface 9.5mm on
275 lbs/syd QC/QA - HMA, 2, 58S, Intermediate, 19.0mm on
880 lbs/syd QC/QA - HMA, 2, 58S, Base, 19.0mm
- M

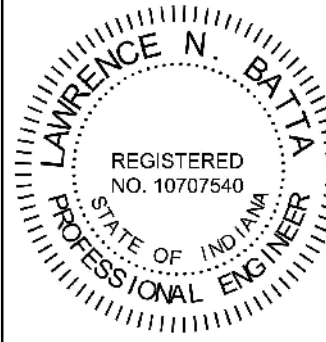
Milling, Asphalt, 1.5 In.
- G

MGS Guardrail, Long Span, Type 1
- S

Subgrade Treatment, Type IC on Geogrid, Type IB
- O

Variable-Depth Compacted Aggregate, No. 53
- 26

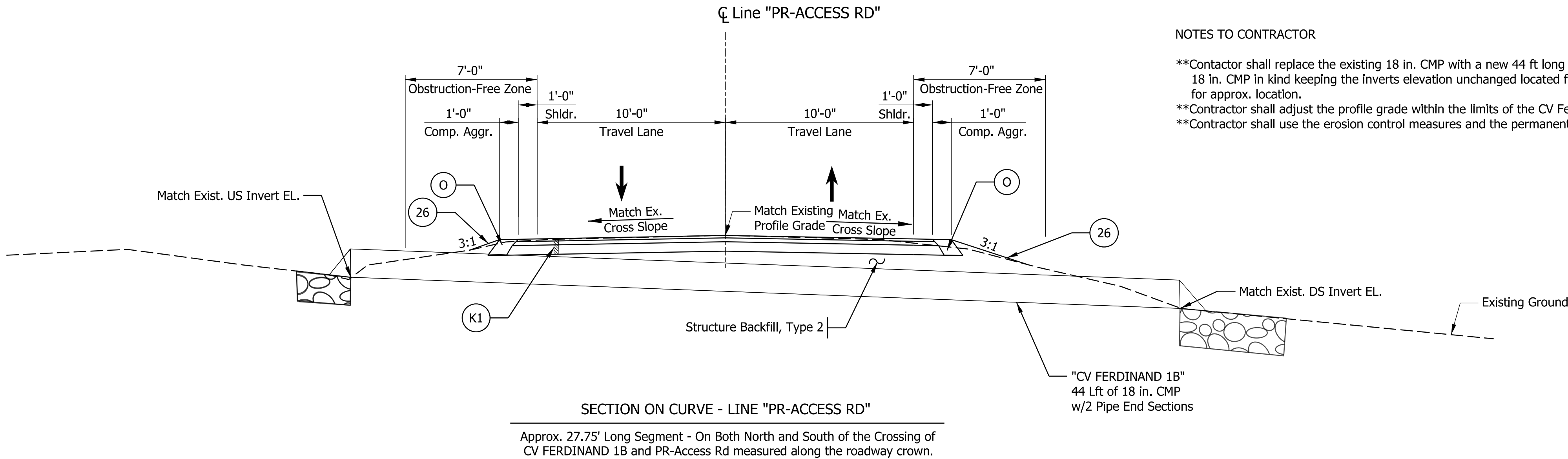
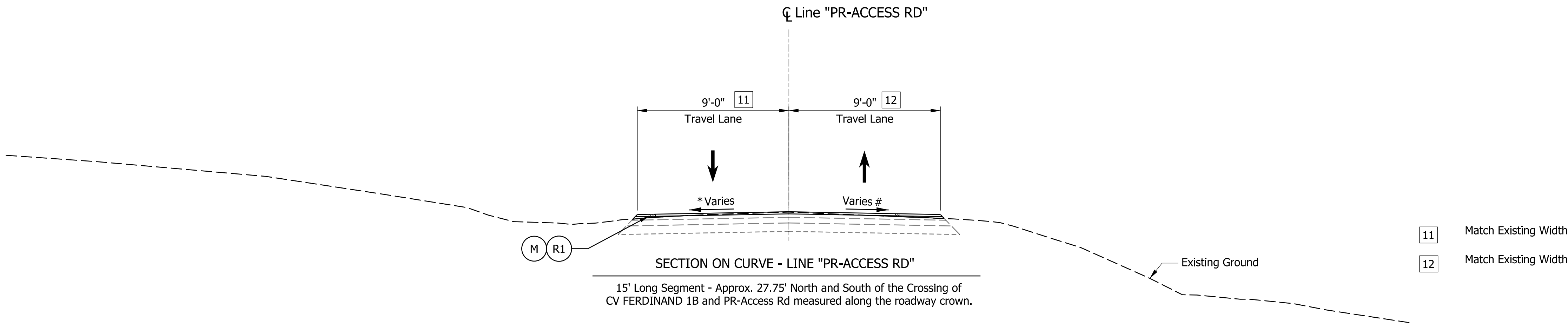
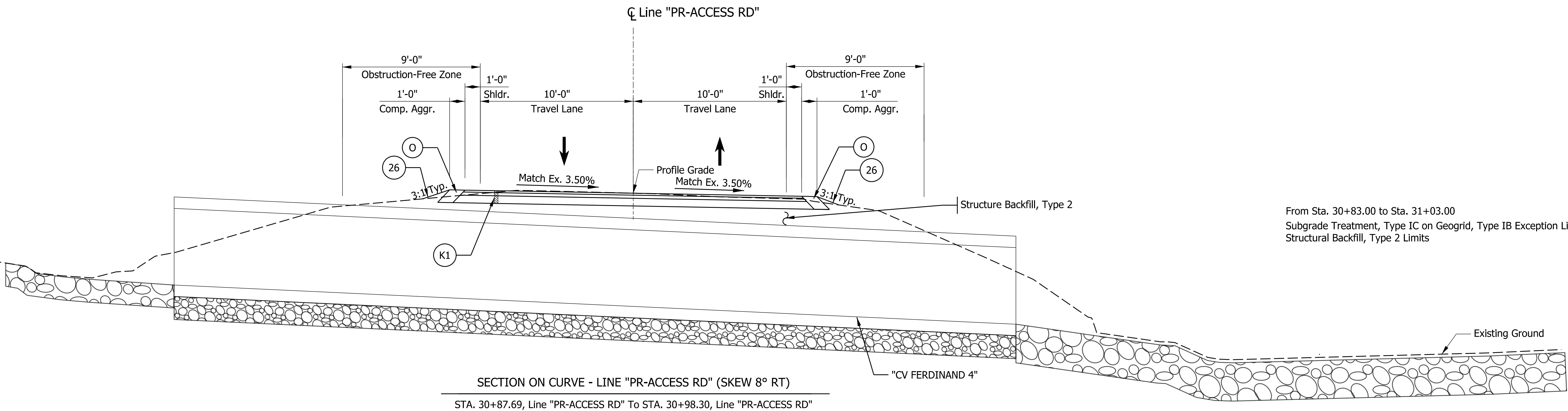
Mulched Seeding, R



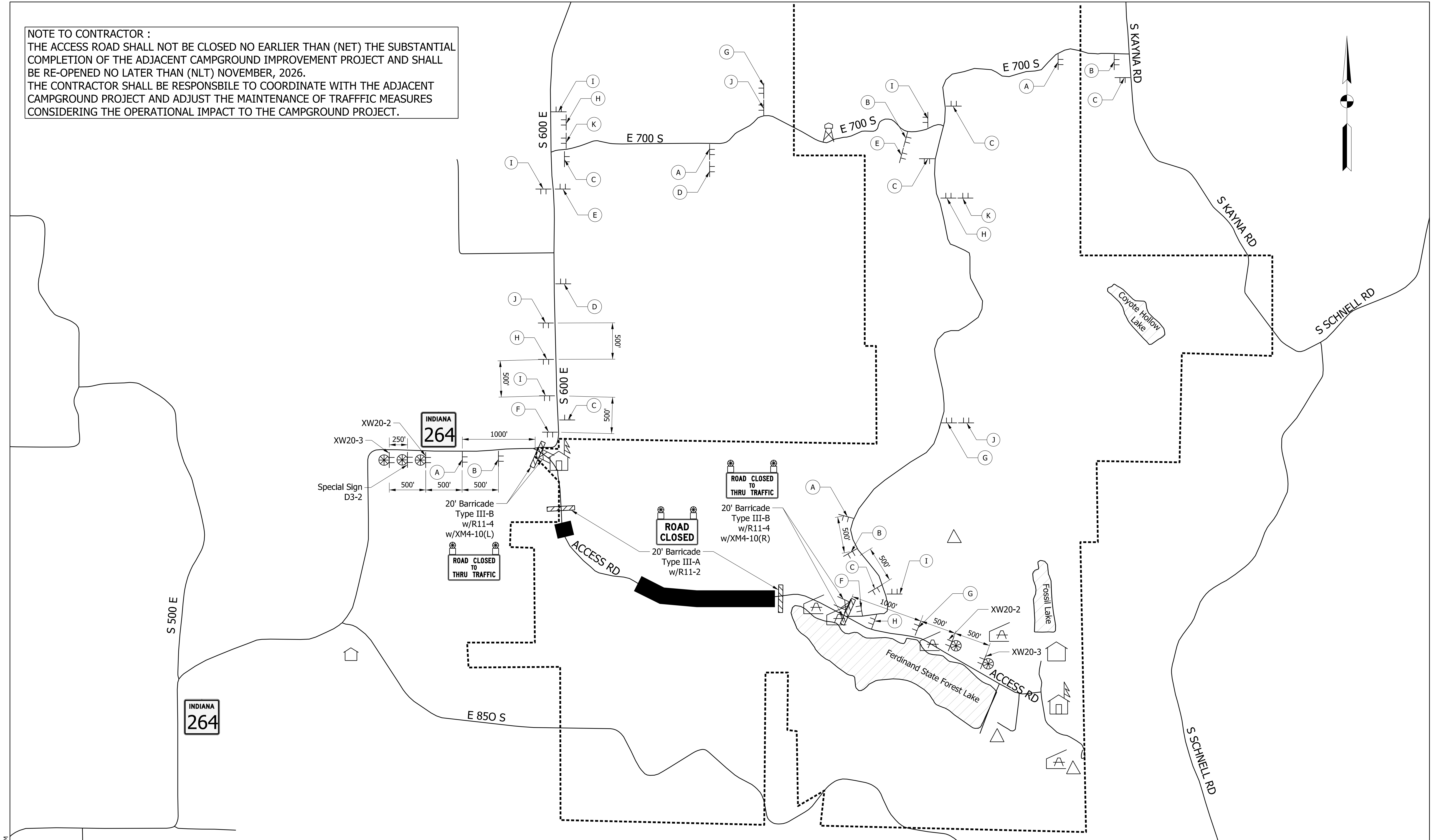
RECOMMENDED FOR APPROVAL	<i>LNB</i>	1/9/2026
DESIGN ENGINEER		DATE
DESIGNED: RK	8/15/2025	DRAWN: BTS 8/15/2025
CHECKED: LNB	1/9/2026	CHECKED: RK 1/9/2026

INDIANA DEPARTMENT OF NATURAL RESOURCES
TYPICAL CROSS SECTIONS LINE "PR-ACCESS RD"

HORIZONTAL SCALE 1/4"=1'	BRIDGE FILE N/A
VERTICAL SCALE N/A	DESIGNATION ENG2609631099
SURVEY BOOK N/A	SHEETS 5 of 25
CONTRACT N/A	PROJECT ENG2609631099



NOTE TO CONTRACTOR :
THE ACCESS ROAD SHALL NOT BE CLOSED NO EARLIER THAN (NET) THE SUBSTANTIAL COMPLETION OF THE ADJACENT CAMPGROUND IMPROVEMENT PROJECT AND SHALL BE RE-OPENED NO LATER THAN (NLT) NOVEMBER, 2026.
THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE WITH THE ADJACENT CAMPGROUND PROJECT AND ADJUST THE MAINTENANCE OF TRAFFIC MEASURES CONSIDERING THE OPERATIONAL IMPACT TO THE CAMPGROUND PROJECT.



1/5/2026 5:42 PM

Pict:

LEGEND

Project Location

Property Boundary

Road

Water Areas

Gatehouse

Camp Ground

Picnic Shelter

Property Office

Fire Tower

Type A Construction Warning Light

Road Closure Sign Assembly

Typical Sign Standard

Barricades (Type III-A, Type III-B)

LAWRENCE N. BAYTA

REGISTERED

NO. 10707540

STATE OF INDIANA

PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL

L.N.B.

DESIGN ENGINEER

1/9/2026

DATE

DESIGNED: RK

8/15/2025

DRAWN: BTS

8/15/2025

CHECKED: LNB

1/9/2026

CHECKED: RK

1/9/2026

INDIANA

DEPARTMENT OF NATURAL RESOURCES

DETOUR MAP

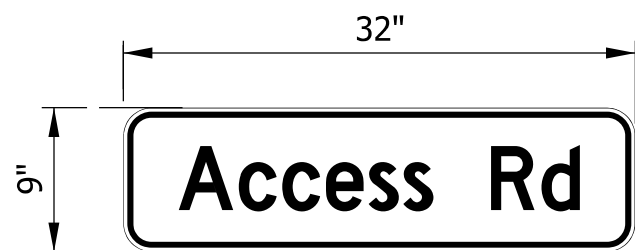
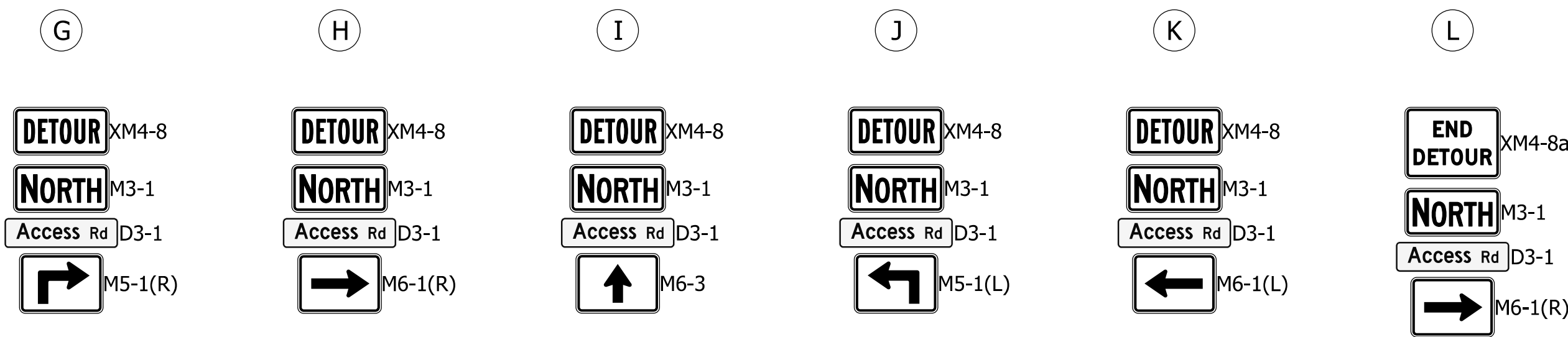
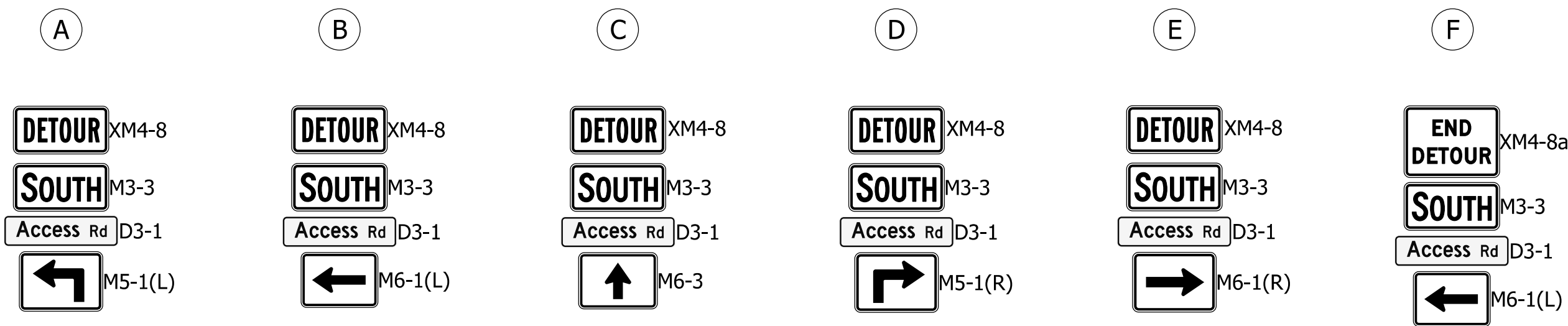
MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
1"=600'	N/A
VERTICAL SCALE	DESIGNATION
N/A	ENG2609631099
SURVEY BOOK	SHEETS
N/A	6 of 25
CONTRACT	PROJECT
N/A	ENG2609631099

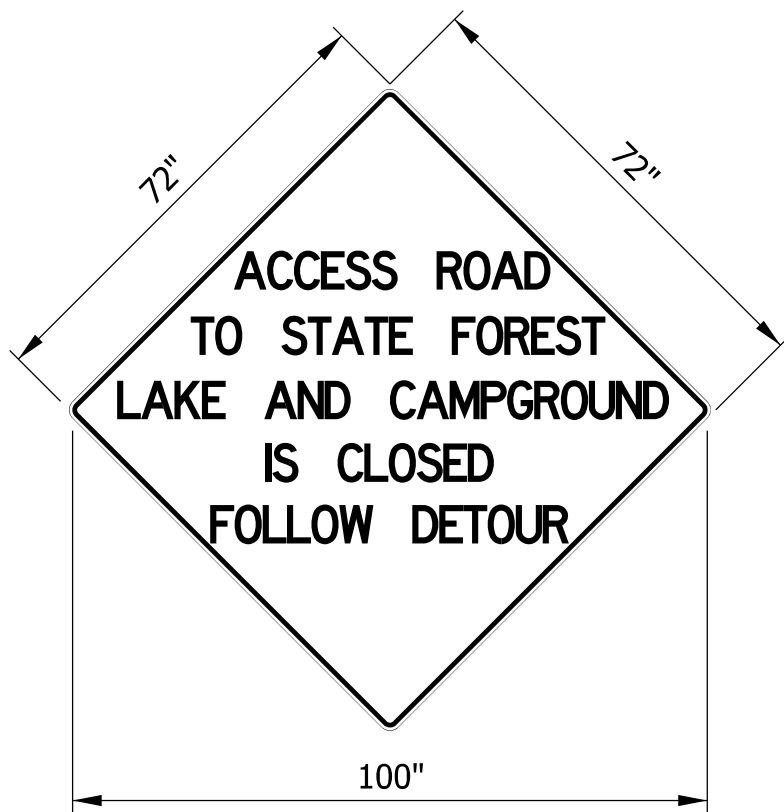
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DETOUR ROUTE MARKER ASSEMBLIES

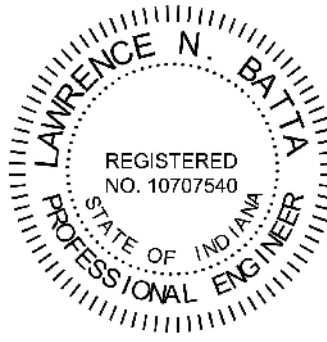
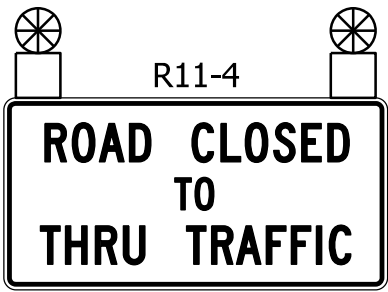
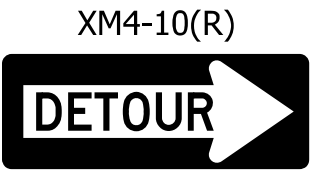
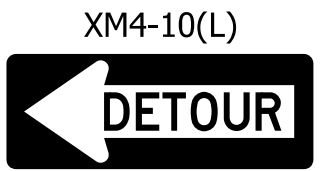
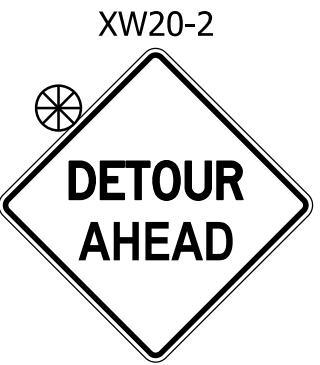
CONSTRUCTION SIGNS



Special Sign D3-1
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Legend/Border : Type = Reflective, Color = Black/Black



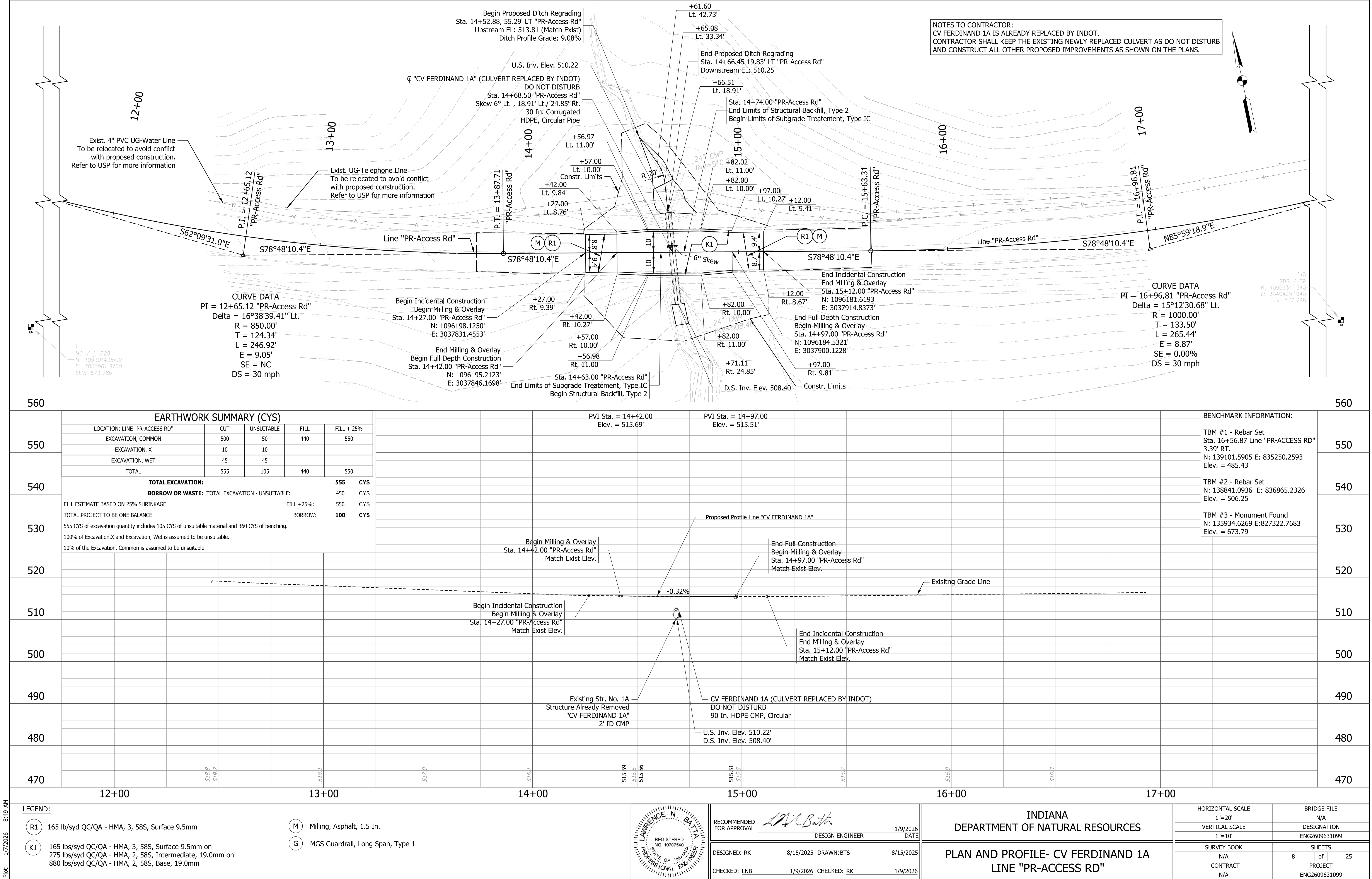
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Mounting: Ground
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Legend/Border : Type = Reflective, Color = Black/Black



RECOMMENDED FOR APPROVAL	<i>L.N. Batta</i>	1/9/2026	DATE
DESIGNED: RK	8/15/2025	DRAWN: BTS	8/15/2025
CHECKED: LNB	1/9/2026	CHECKED: RK	1/9/2026

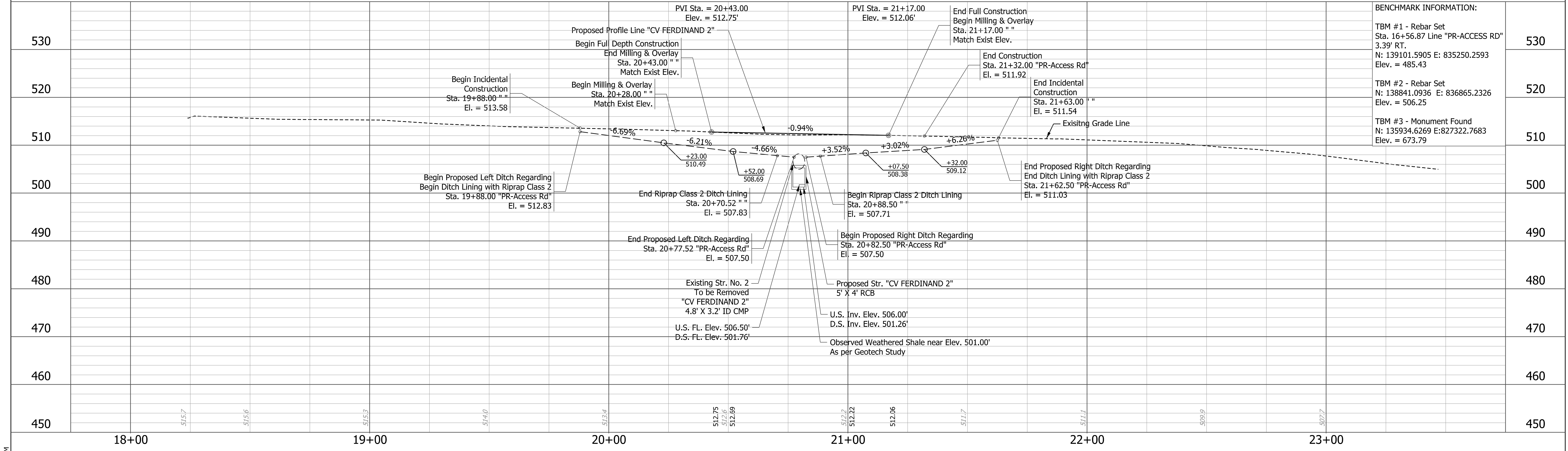
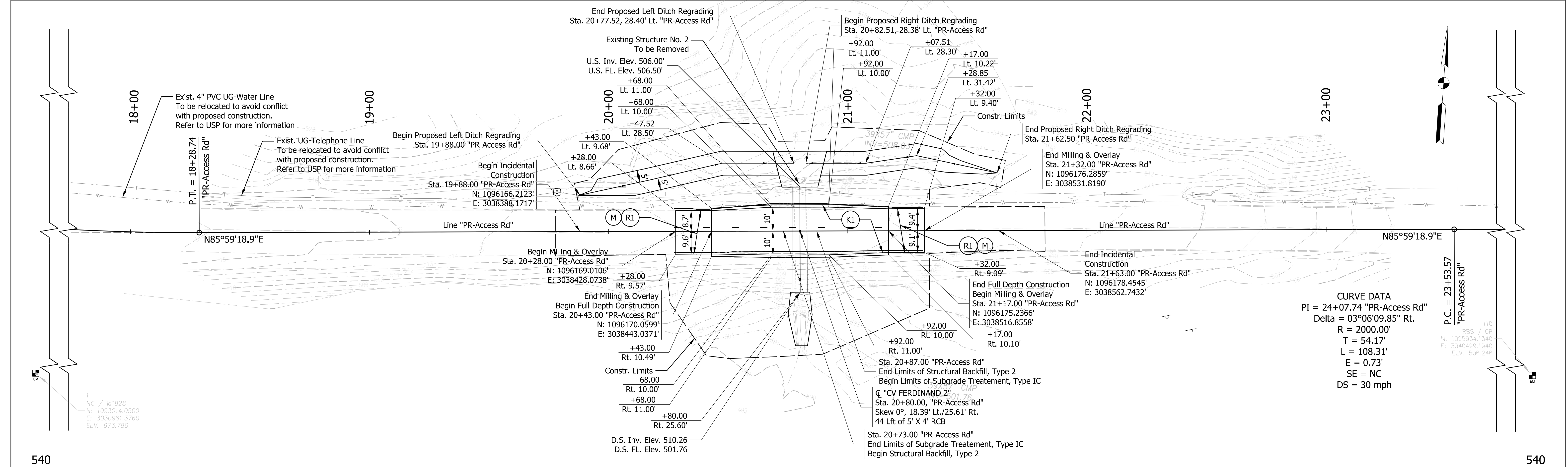
INDIANA DEPARTMENT OF NATURAL RESOURCES
DETOUR MAP MAINTENANCE OF TRAFFIC

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	ENG2609631099
SURVEY BOOK	SHEETS
N/A	7 of 25
CONTRACT	PROJECT
N/A	ENG2609631099



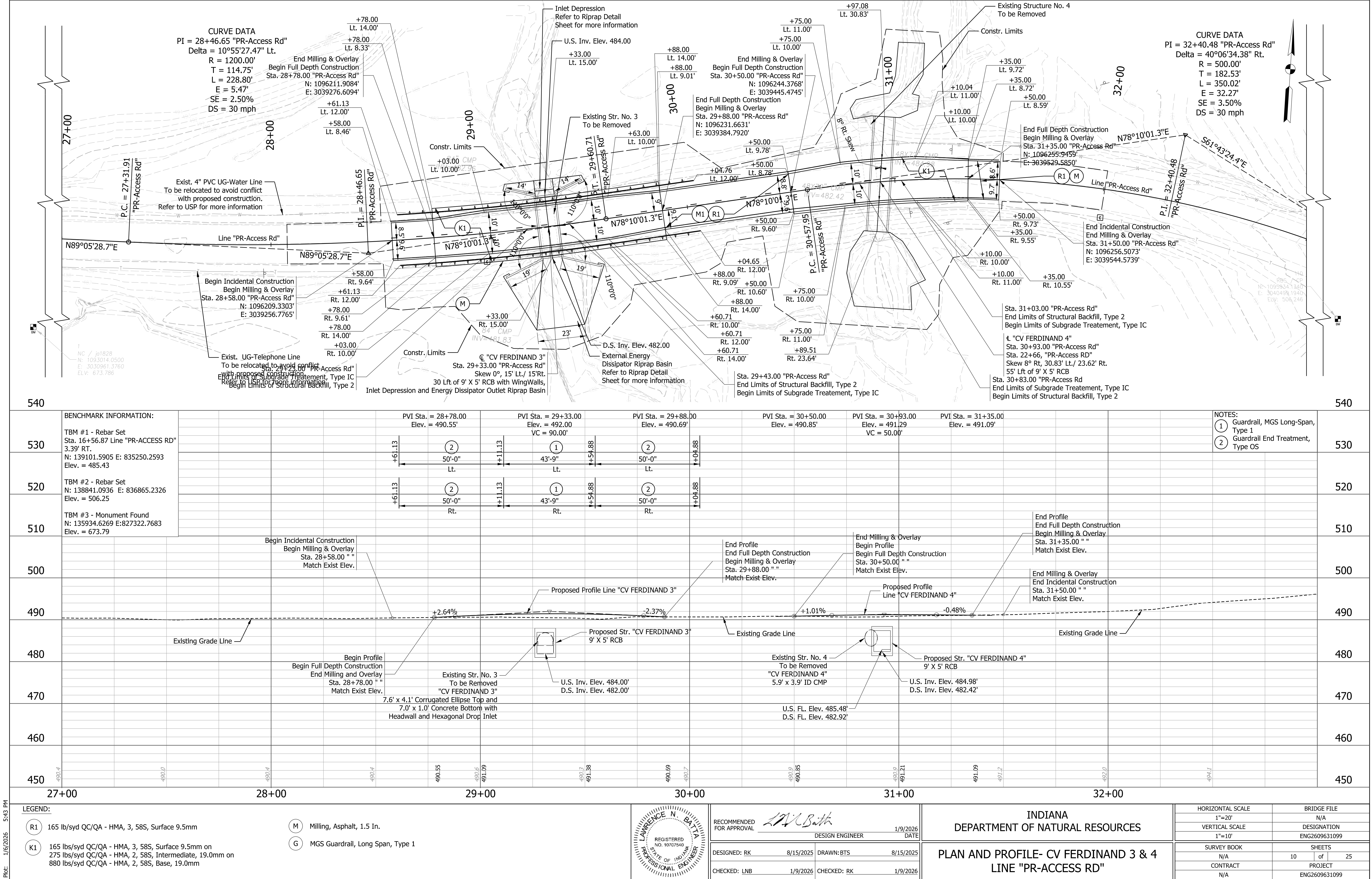
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Model: Sht_PNP_20_01 [Sheet]



LEGEND:		INDIANA DEPARTMENT OF NATURAL RESOURCES		HORIZONTAL SCALE 1"=20'		BRIDGE FILE N/A	
(R1) 165 lb/syd QC/QA - HMA, 3, 58S, Surface 9.5mm		(M) Milling, Asphalt, 1.5 In.		VERTICAL SCALE 1"=10'		DESIGNATION ENG2609631099	
(K1) 165 lbs/syd QC/QA - HMA, 3, 58S, Surface 9.5mm on 275 lbs/syd QC/QA - HMA, 2, 58S, Intermediate, 19.0mm on 880 lbs/syd QC/QA - HMA, 2, 58S, Base, 19.0mm		(G) MGS Guardrail, Long Span, Type 1		SURVEY BOOK N/A		SHEETS 9 of 25	
DESIGNED: RK 8/15/2025		DRAWN: BTS 8/15/2025		CONTRACT N/A		PROJECT ENG2609631099	
CHECKED: LNB 1/9/2026		CHECKED: RK 1/9/2026		PLAN AND PROFILE- CV FERDINAND 2 LINE "PR-ACCESS RD"			

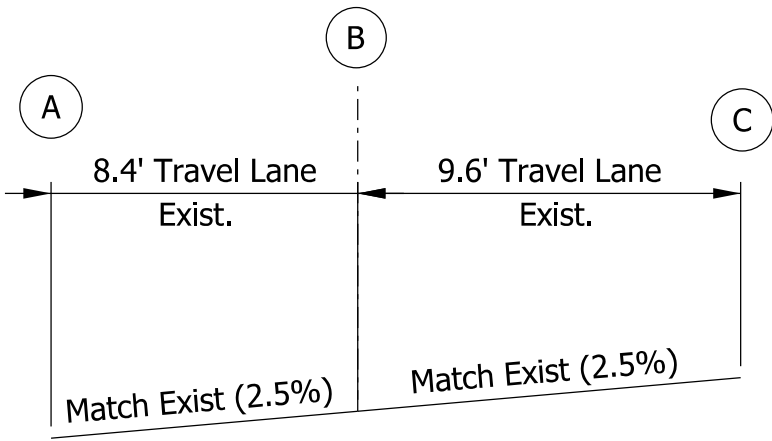
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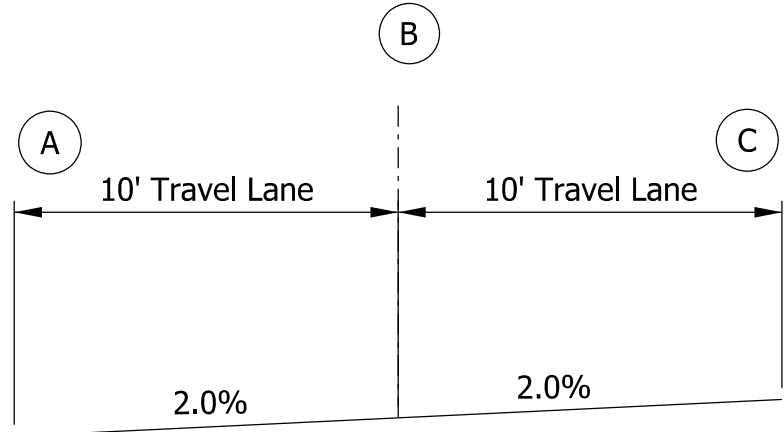
Plot: 1/6/2026 5:43 PM

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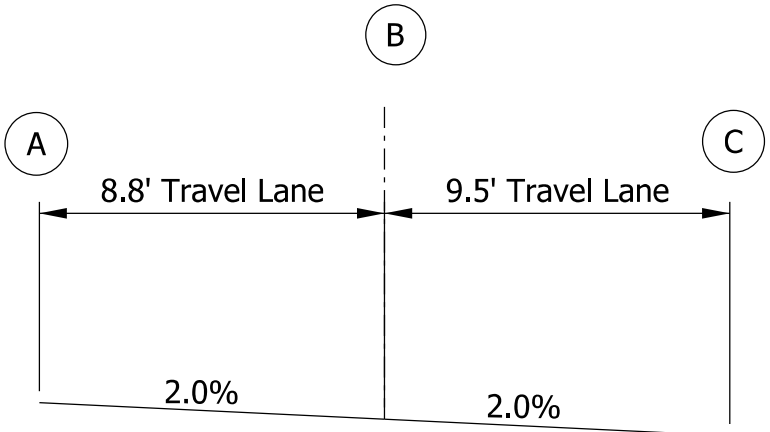
Sta. 28+58 "PR-ACCESS RD"



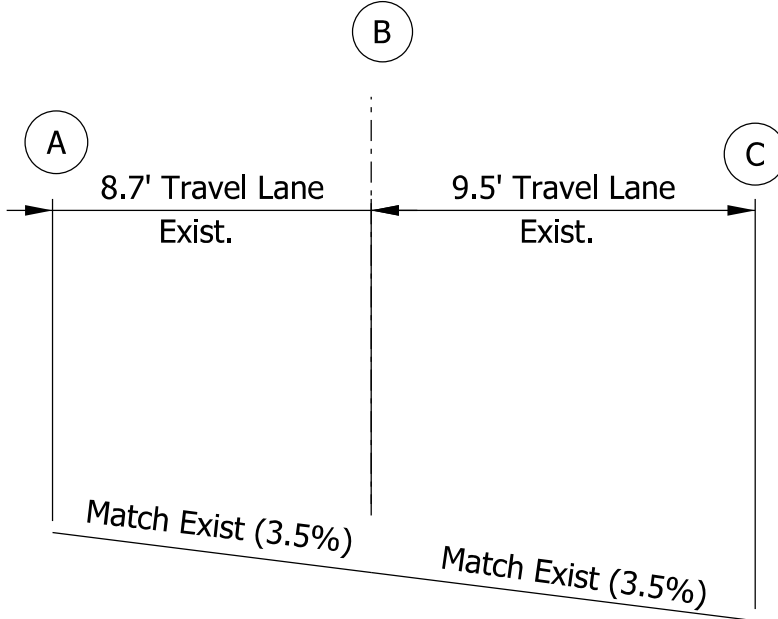
Sta. 29+63 "PR-ACCESS RD"



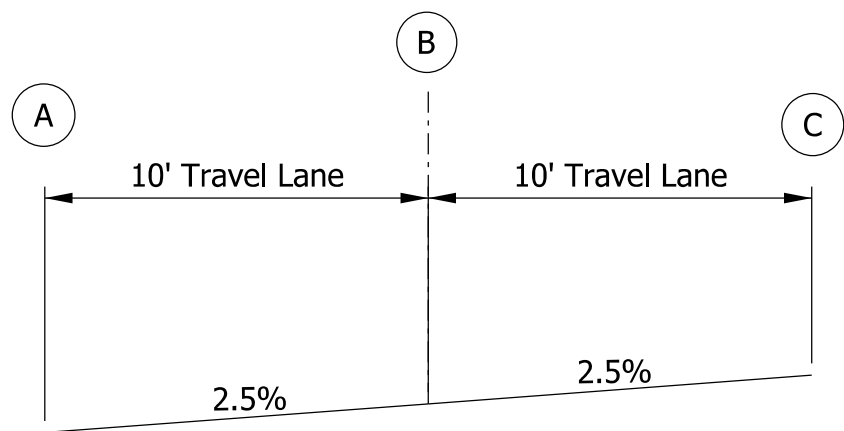
Sta. 30+47 "PR-ACCESS RD"



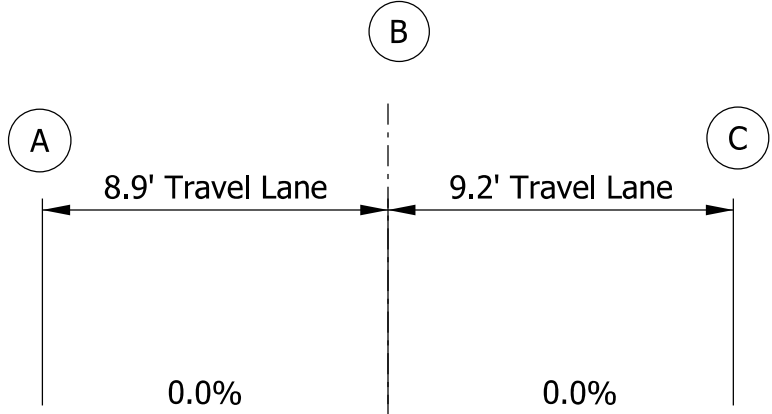
Sta. 31+35 "PR-ACCESS RD"



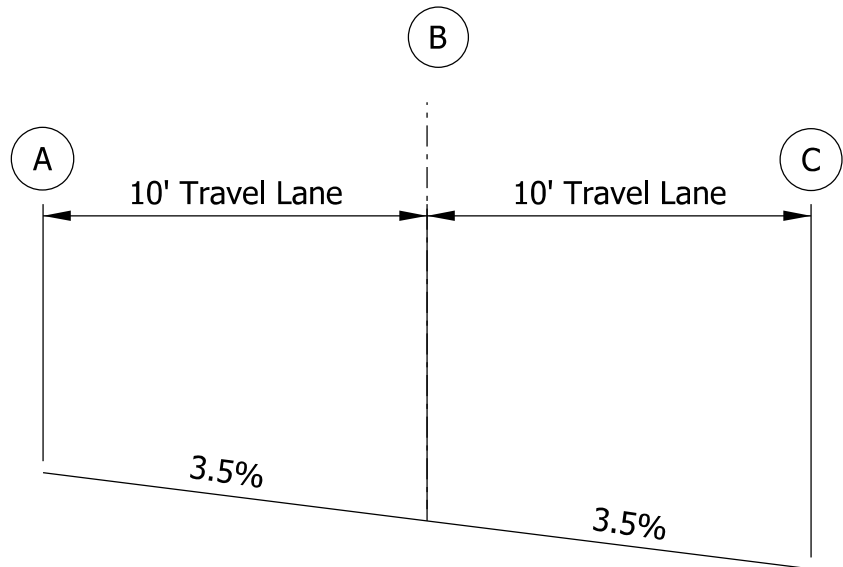
Sta. 29+53 "PR-ACCESS RD"



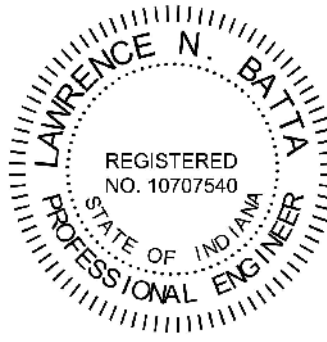
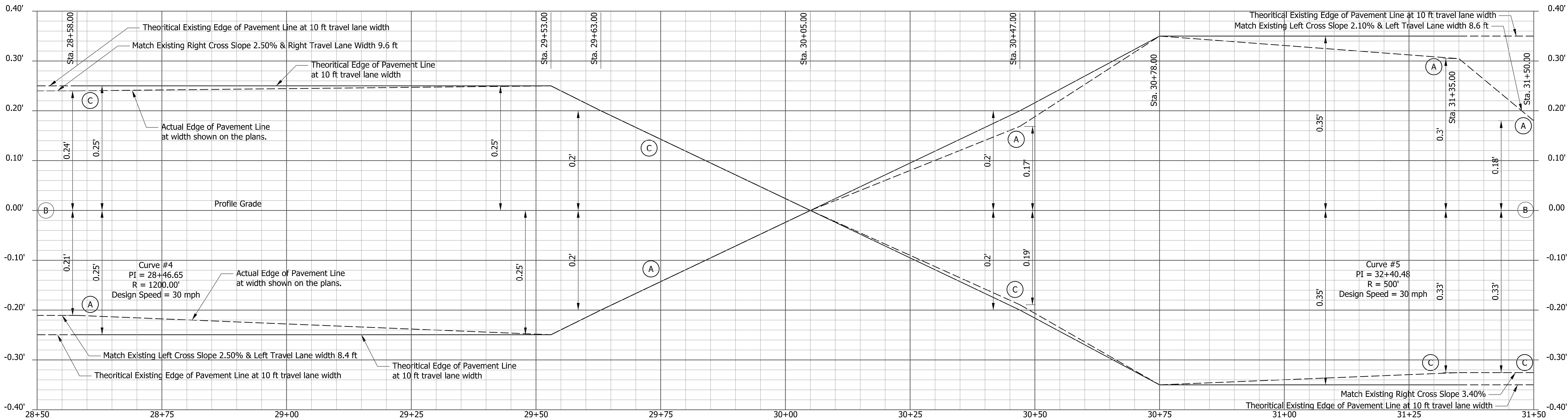
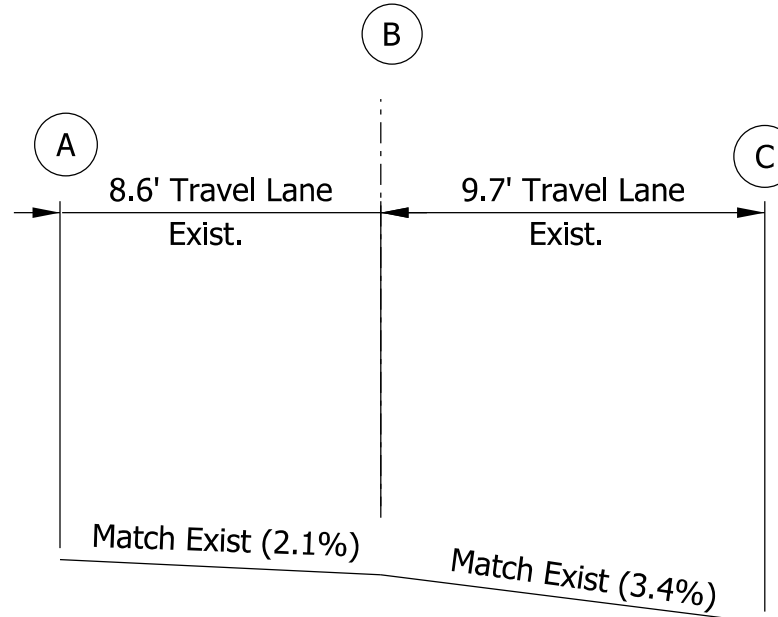
Sta. 30+05 "PR-ACCESS RD"



Sta. 30+78 "PR-ACCESS RD"



Sta. 31+50 "PR-ACCESS RD"



RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

1/9/2026
DATE

DESIGNED: RK

8/15/2025

DRAWN: BTS

8/15/2025

CHECKED: LNB

1/9/2026

CHECKED: RK

1/9/2026

INDIANA
DEPARTMENT OF NATURAL RESOURCES

SUPER ELEVATION DETAIL
LINE "PR-ACCESS RD"

HORIZONTAL SCALE

1"=10'

VERTICAL SCALE

1"=10'

SURVEY BOOK

N/A

CONTRACT

N/A

BRIDGE FILE

N/A

DESIGNATION

ENG2609631099

SHEETS

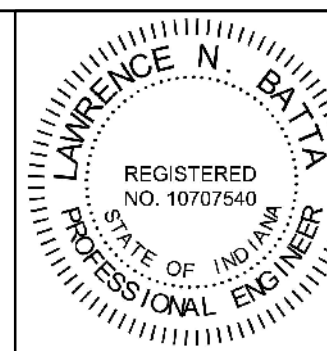
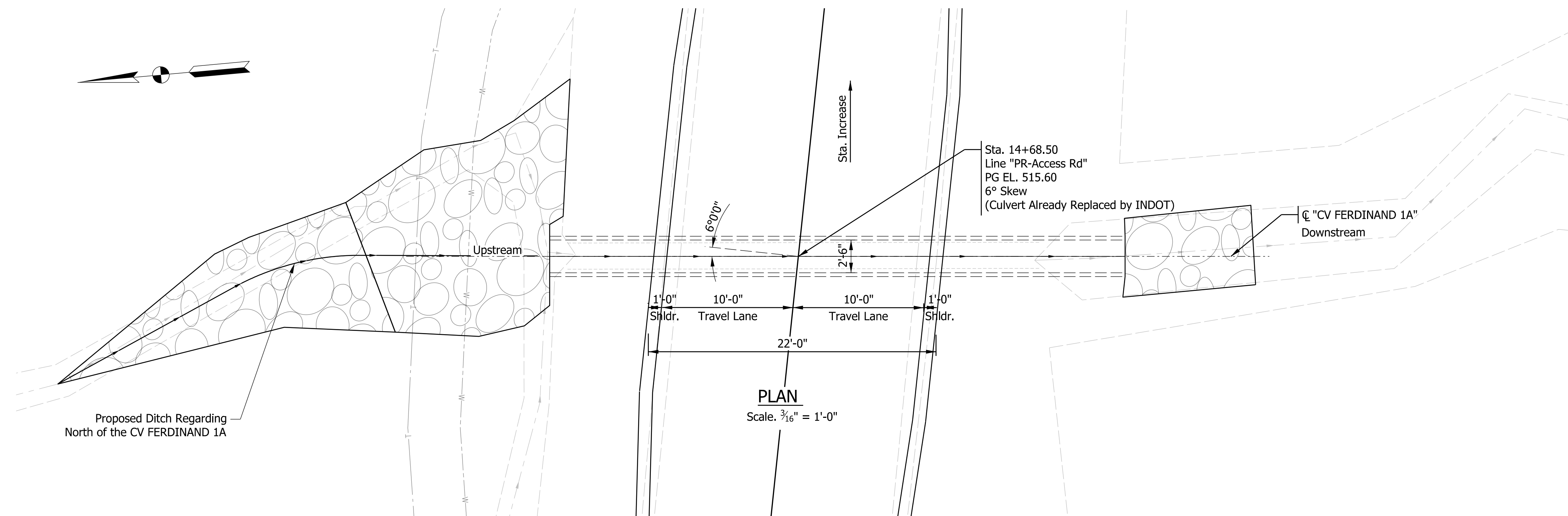
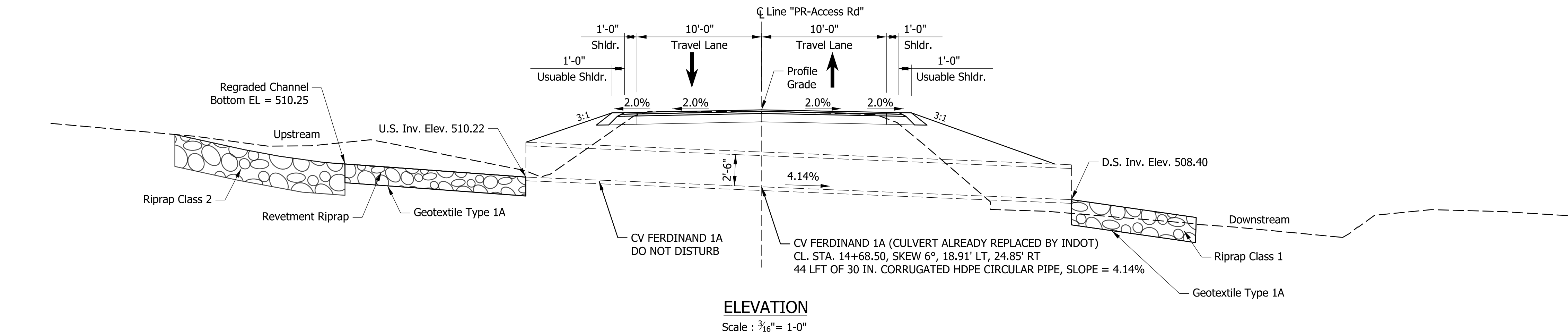
11 of 25

PROJECT

ENG2609631099

Existing Structure:
Structure No. 1
Asset ID: CLV-111485
24" ID Corrugated Metal Pipe

NOTES TO CONTRACTOR:
CV FERDINAND 1A IS ALREADY REPLACED BY INDOT AND WILL REMAIN IN PLACE.
CONTRACTOR SHALL KEEP THE EXISTING NEWLY REPLACED CULVERT IN PLACE
AND CONSTRUCT ALL OTHER PROPOSED IMPROVEMENTS AS SHOWN ON THE PLANS.



RECOMMENDED FOR APPROVAL			1/9/2026
	DESIGN ENGINEER		DATE
DESIGNED: RK	8/15/2025	DRAWN: BTS	8/15/2025
CHECKED: LNB	1/9/2026	CHECKED: RK	1/9/2026

INDIANA
DEPARTMENT OF NATURAL RESOURCES

	HORIZONTAL SCALE	BRIDGE FILE		
	AS NOTED	N/A		
	VERTICAL SCALE	DESIGNATION		
	N/A	ENG2609631099		
	SURVEY BOOK	SHEETS		
	N/A	13	of	25
	CONTRACT	PROJECT		
	N/A	ENG2609631099		

Existing Structure:
Structure No. 2
Asset ID: 93008736
4.8' x 3.2' ID Corrugated Metal Pipe

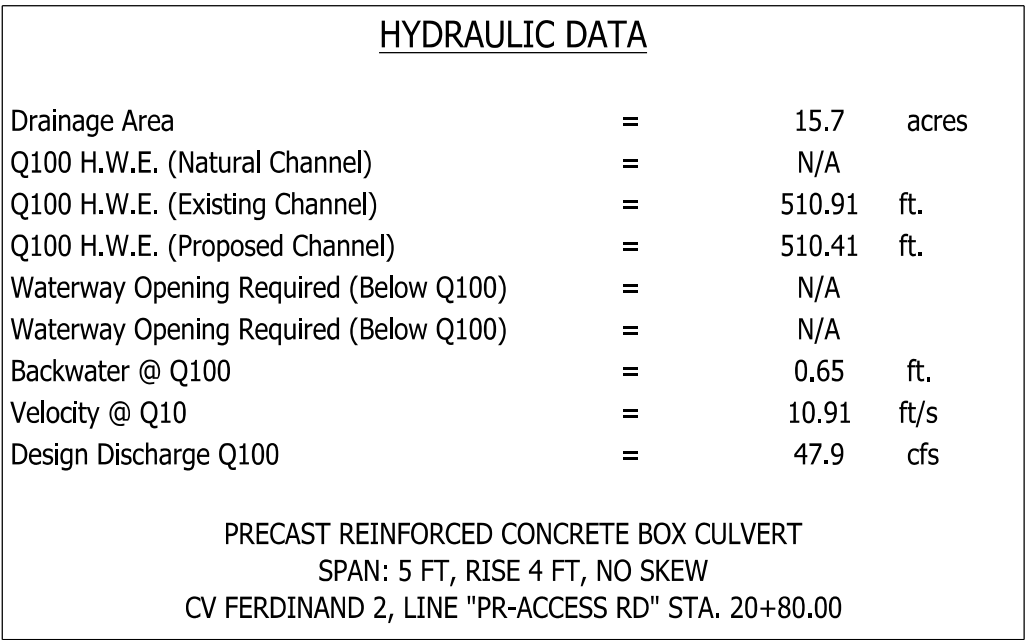
Foundation Bearing Soil Type	A-2-4 Sandy Loam
Friction Angle between Wingwall and Backfill ¹ (deg)	20
Estimated Unit Weight of Structure Backfill, $\gamma_{\text{most/saturated}}$ (pcf)	120
Angle of Friction between Footing and Crushed Stone (δ , deg)	26
Undrained Cohesion of Foundation Soil (s_u , psf) (A-2-4 Sandy Loam)	1,000
Adhesion of Foundation Soil (C_u , psf) (A-2-4 Sandy Loam)	1,000
Drained Internal Friction Angle of Foundation Soil (ϕ' , deg) (A-2-4 Sandy Loam)	30
Factored Bearing Resistance (psf) ²	2,500
Resistance Factor (ϕ)	0.45
Nominal Bearing Resistance (psf) ²	5,500
1. Using Structure Backfill Type 2	
2. Calculated based on undrained cohesion	

Structure shall be designed for HL-93 Loading, in accordance with AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017.

Actual weight plus 35 lb/ft² for future wearing surface.

Class "A" Concrete	f'c = 5,000	psi	(Culvert Structure)
Class "A" Concrete	f'c = 4,000	psi	(Wingwalls and Headwalls)
Class "B" Concrete	f'c = 3,000	psi	

Grade 60	$f_y = 60,000$ psi
Welded Wire Reinforcement	$f_y = 65,000$ psi



According to the Geotechnical evaluation, yielding soil is not anticipated to be encountered at the base of the culvert. However, if the yielding soils are encountered during construction, the yielding soil shall be undercut to a depth of 12 in. below the bottom of the bedding layer and replaced with INDOT Compacted Aggregate No. 8 encapsulated with Type 2A geotextile as per IDM Specification 918.02a under the entire base area of the culvert.

Bottom of P

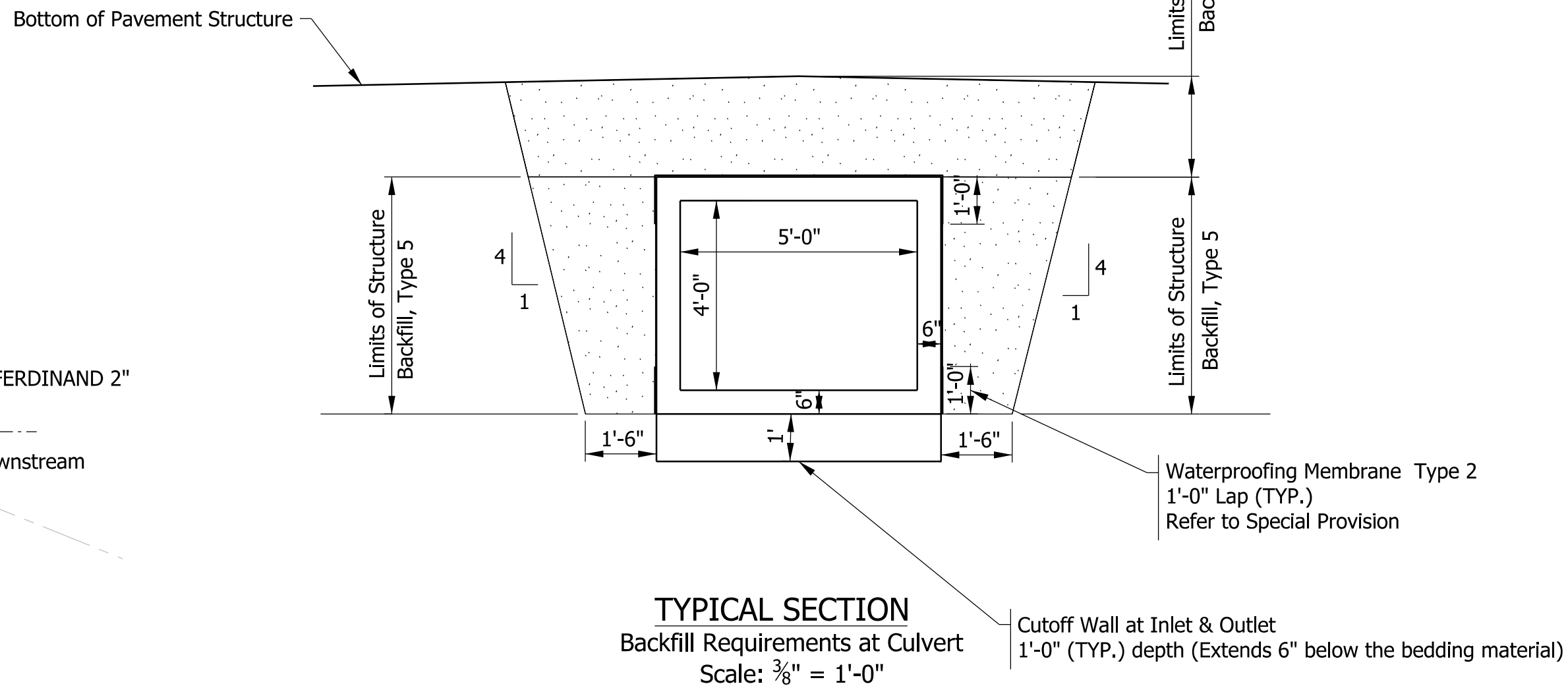
Upstream

Downstream

Sta. 20+80.00
Line "PR-Access Rd"
PG EL. 512.41
0° Skew

CV FERDINAND 2

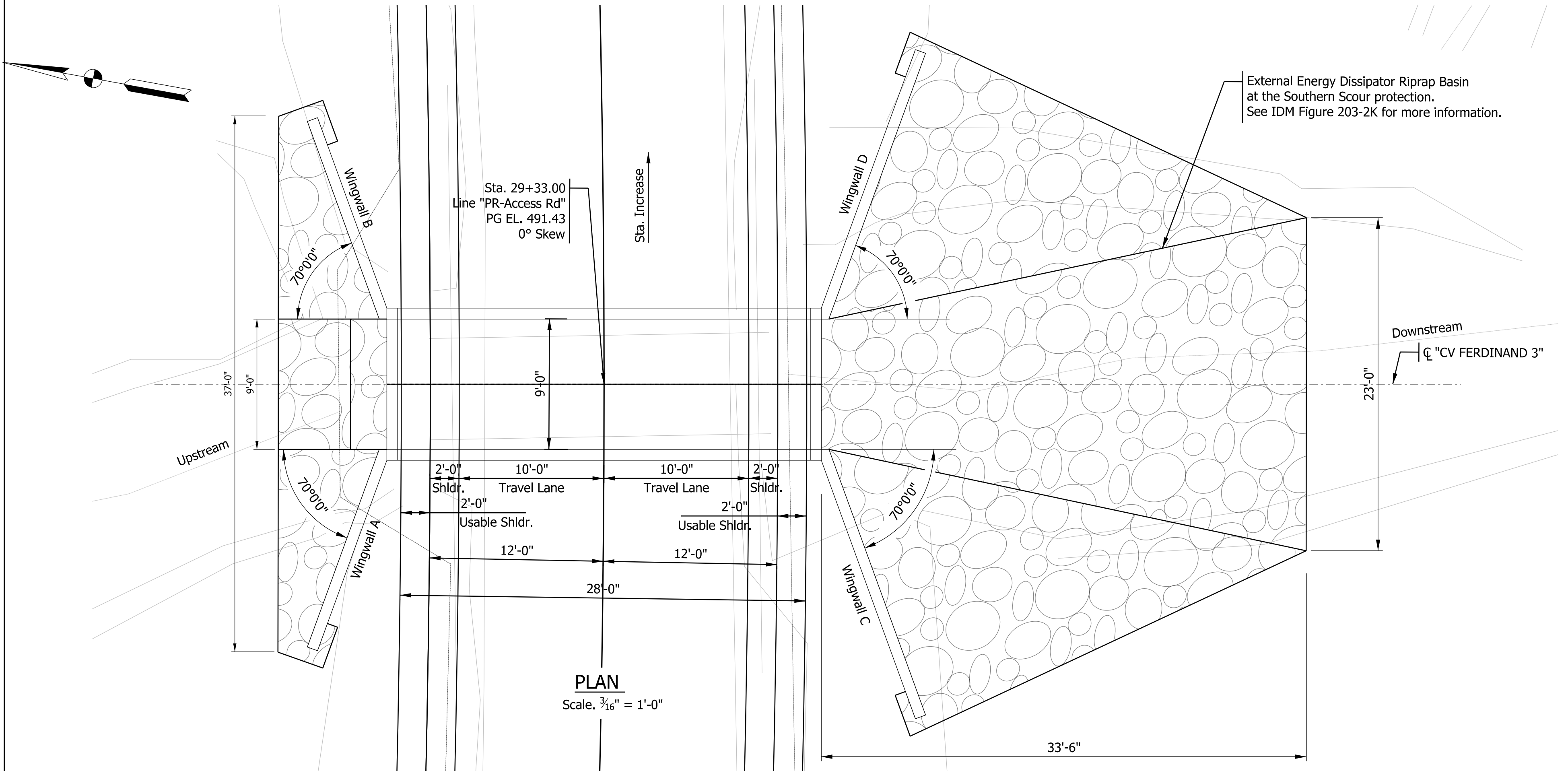
PLAN
Scale, $\frac{3}{16}" = 1'-0"$



RECOMMENDED FOR APPROVAL		 DESIGN ENGINEER		1/9/2026 DATE
DESIGNED: RK	8/15/2025	DRAWN: BTS	8/15/2025	
CHECKED: LNB	1/9/2026	CHECKED: RK	1/9/2026	

GENERAL PLAN - CV FERDINAND 2
LINE "PR-ACCESS RD"

HORIZONTAL SCALE	BRIDGE FILE		
AS NOTED	N/A		
VERTICAL SCALE	DESIGNATION		
N/A	ENG2609631099		
SURVEY BOOK	SHEETS		
N/A	14	of	25
CONTRACT	PROJECT		
N/A	ENG2609631099		



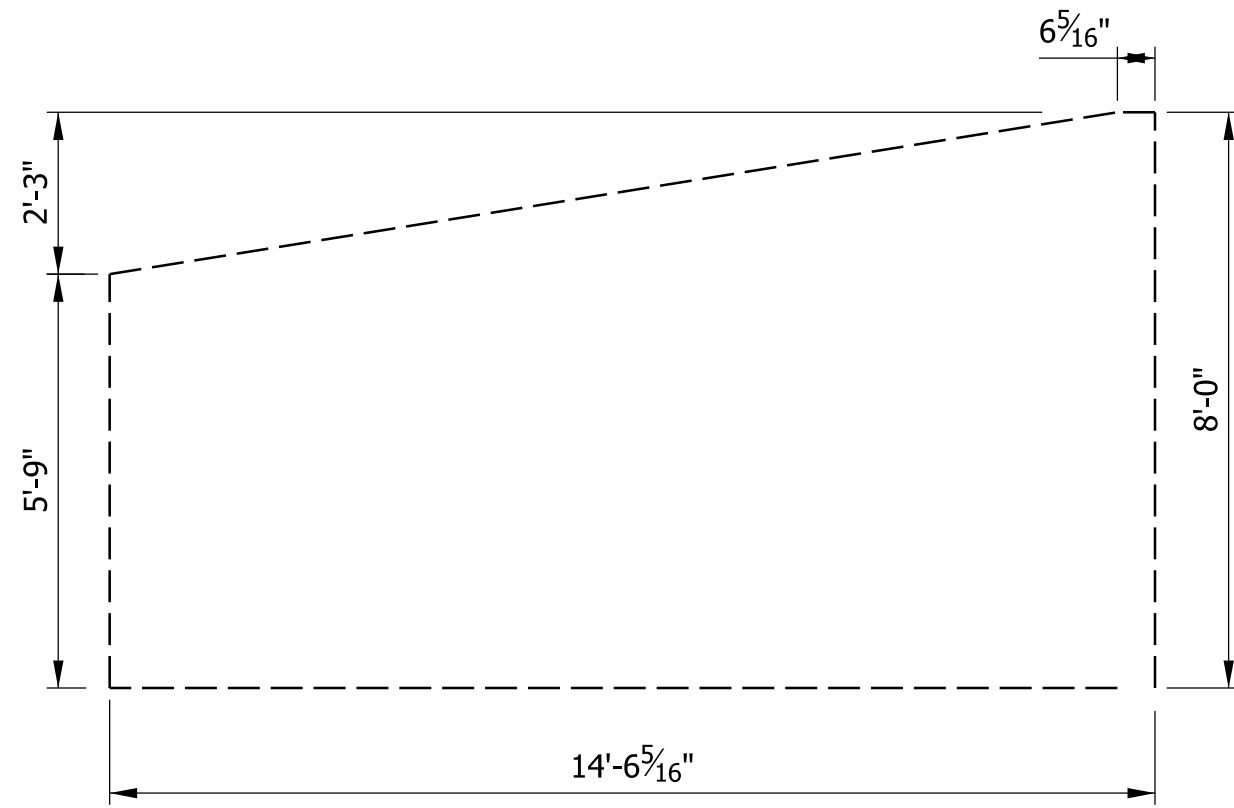
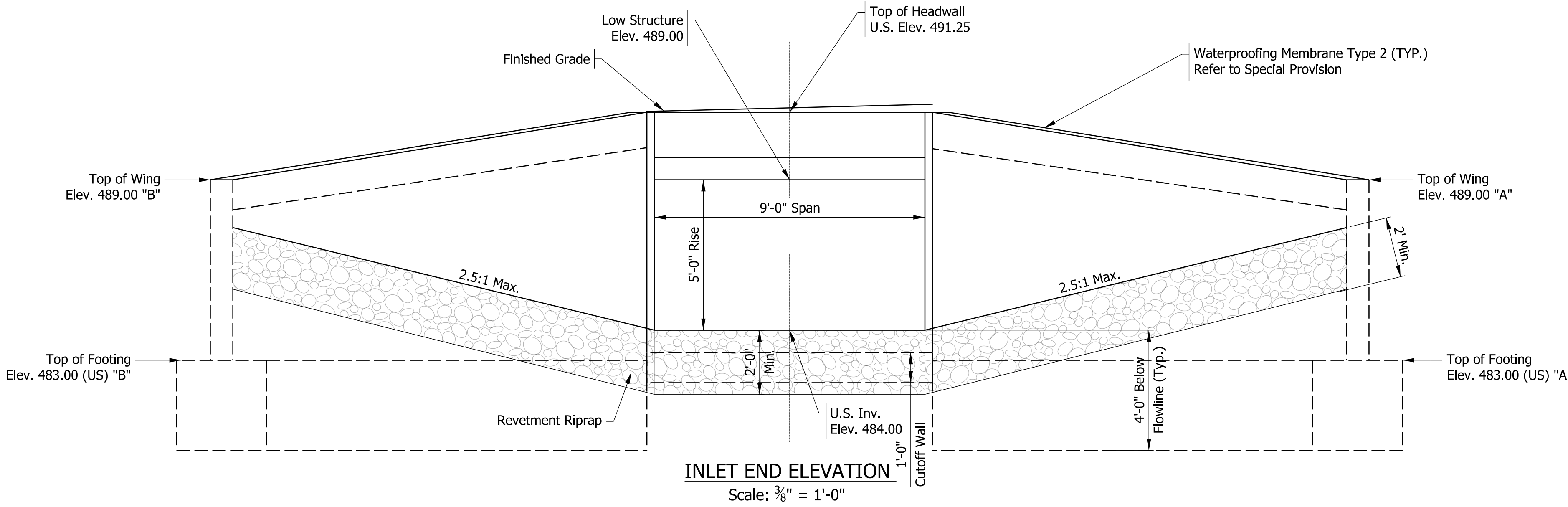
TYPICAL SECTION
Backfill Requirements at Wingwall
Scale: $\frac{3}{8}" = 1'-0"$

1/9/2026

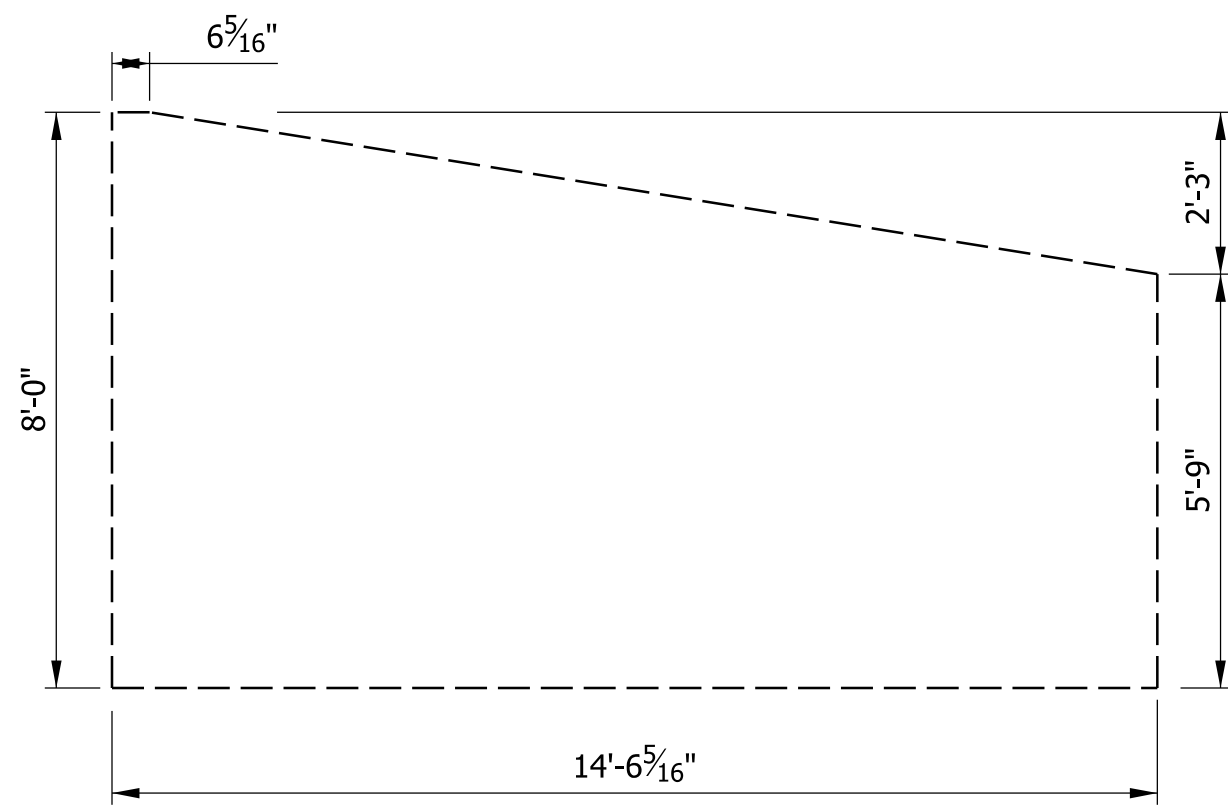
N/A

NG260963109

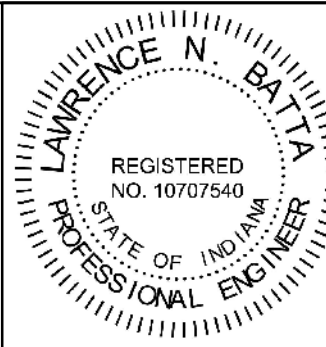
Plot: 1/6/2026 5:46 PM



WINGWALL B
Scale: $\frac{3}{8}" = 1'-0"$



WINGWALL A
Scale: $\frac{3}{8}" = 1'-0"$

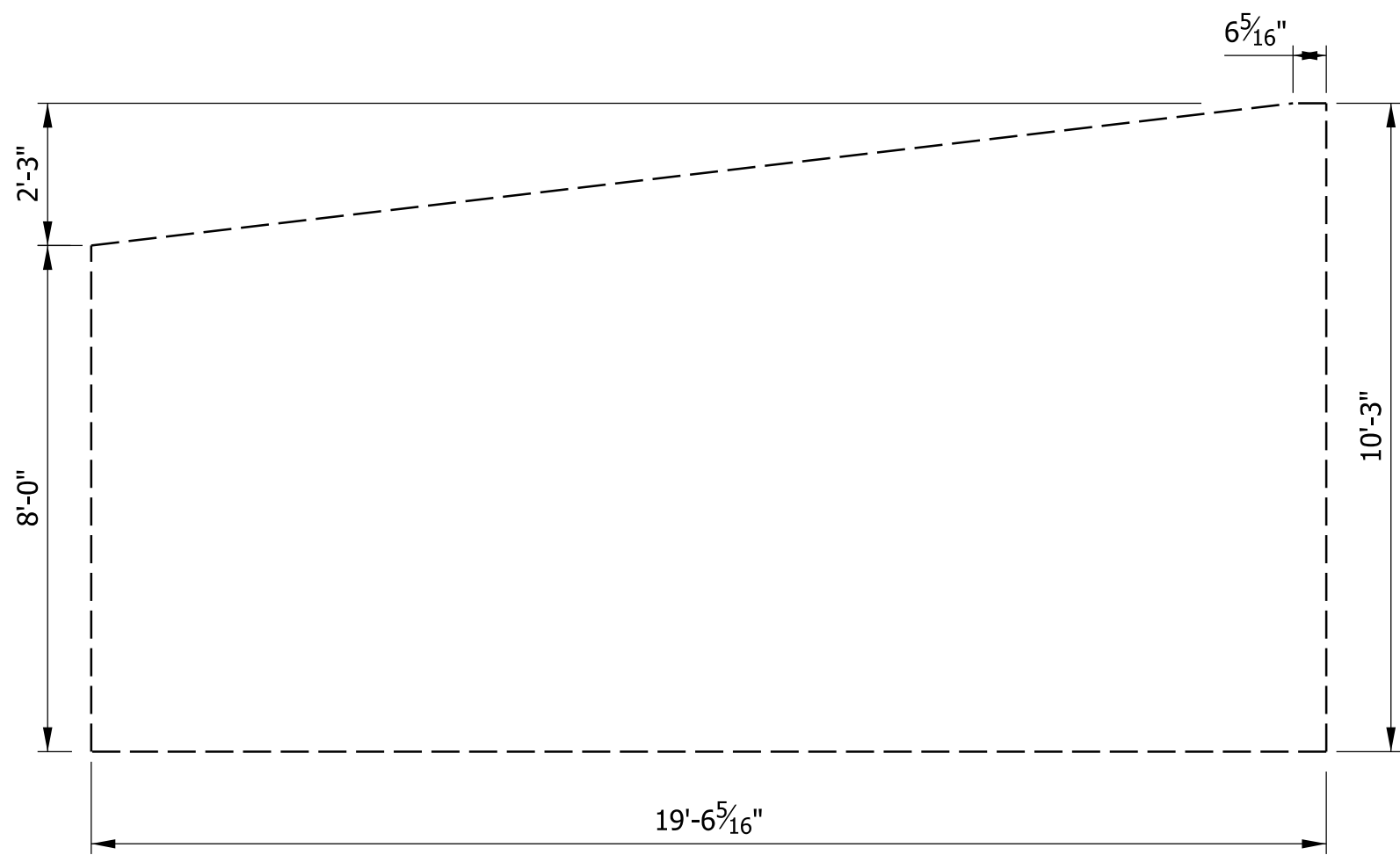
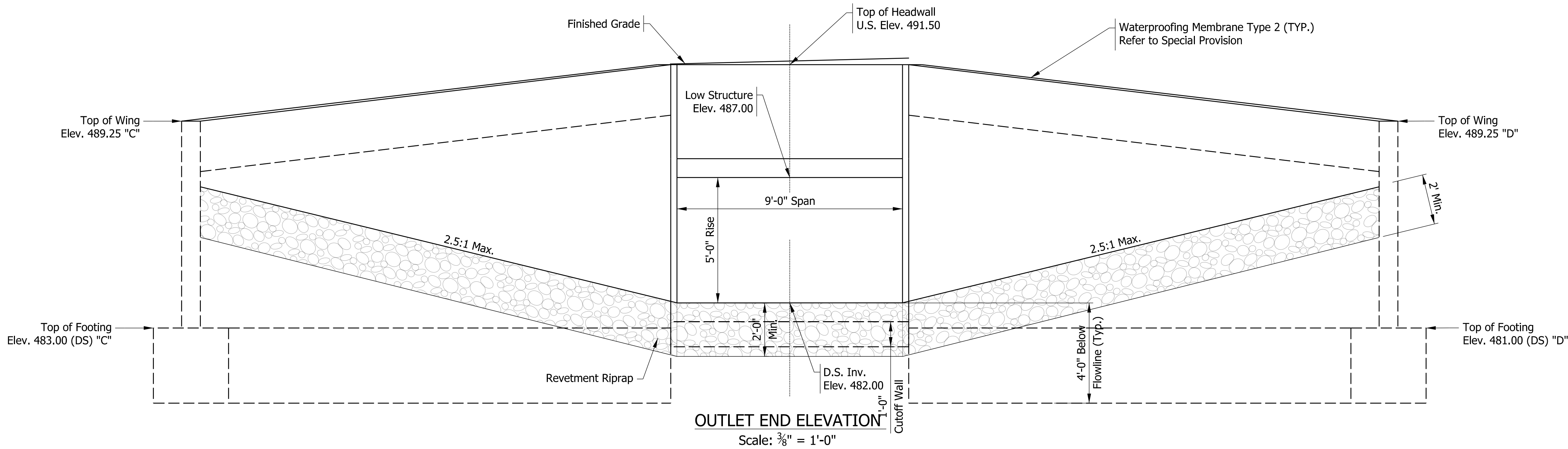


RECOMMENDED FOR APPROVAL <i>LNB</i>			
DESIGN ENGINEER		1/9/2026	
DATE			
DESIGNED: RK	8/15/2025	DRAWN: BTS	8/15/2025
CHECKED: LNB	1/9/2026	CHECKED: RK	1/9/2026

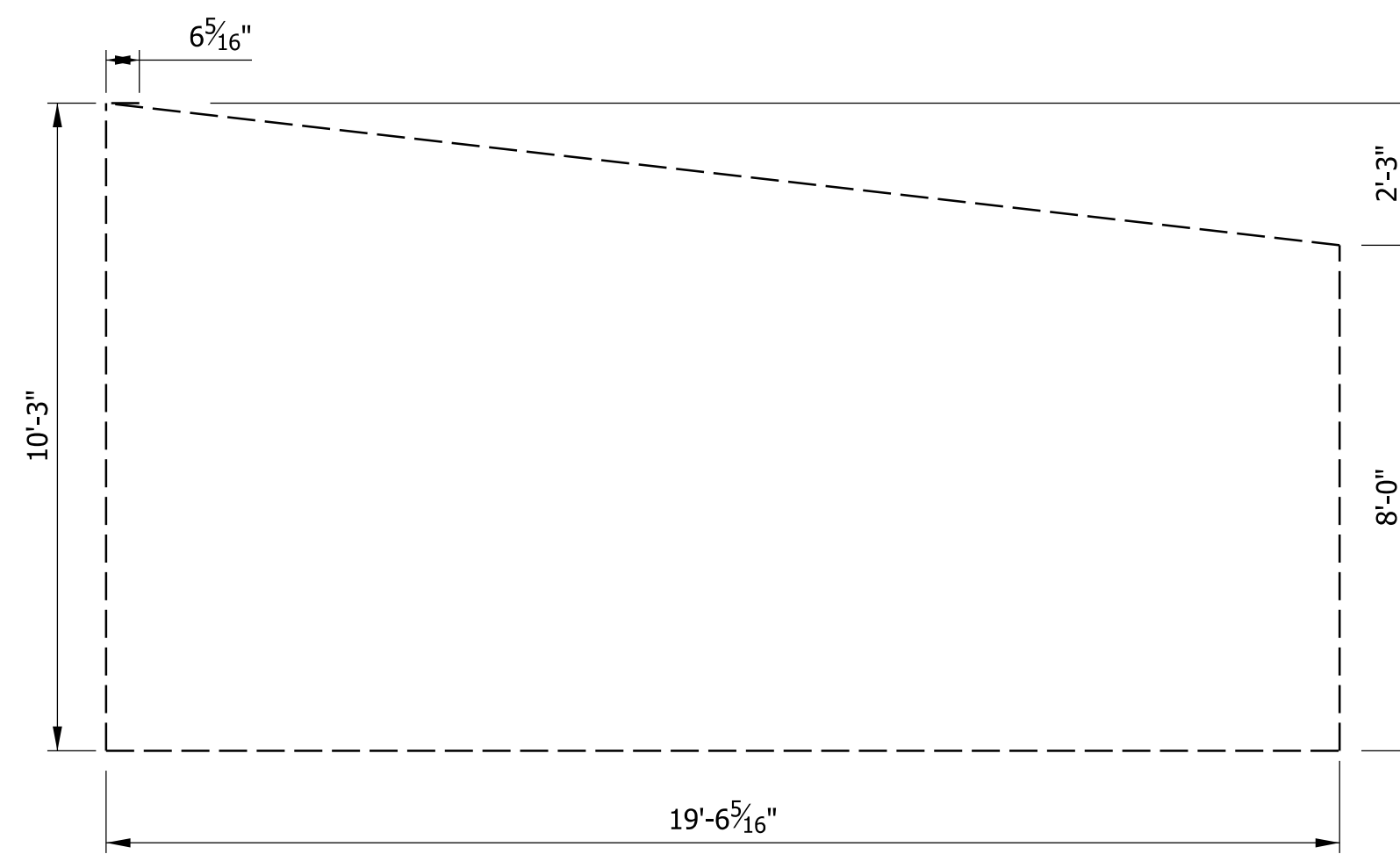
INDIANA
DEPARTMENT OF NATURAL RESOURCES

GENERAL PLAN - CV FERDINAND 3
LINE "PR-ACCESS RD"

HORIZONTAL SCALE		BRIDGE FILE	
AS NOTED		N/A	
VERTICAL SCALE		DESIGNATION	
N/A		ENG2609631099	
SURVEY BOOK		SHEETS	
N/A		16 of 25	
CONTRACT		PROJECT	
N/A		ENG2609631099	



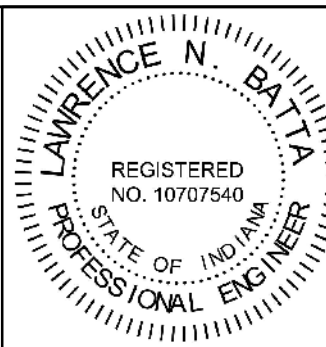
WINGWALL C
Scale: $\frac{3}{8}" = 1'-0"$



WINGWALL D
Scale: $\frac{3}{8}" = 1'-0"$

Plot: 1/6/2026 5:46 PM

File: L:\IndianaDNR\24006672-00_FerdinandSFCulverts\667200\Drawings\667200_Sht_GeneralPlan_CV 03.dgn
Model: Sheet - CV FERDINAND 3 Layout Details OUTLET



RECOMMENDED FOR APPROVAL <i>LNB</i>			
DESIGN ENGINEER		1/9/2026	
DATE			
DESIGNED: RK	8/15/2025	DRAWN: BTS	8/15/2025
CHECKED: LNB	1/9/2026	CHECKED: RK	1/9/2026

INDIANA
DEPARTMENT OF NATURAL RESOURCES

GENERAL PLAN - CV FERDINAND 3
LINE "PR-ACCESS RD"

HORIZONTAL SCALE		BRIDGE FILE	
AS NOTED		N/A	
VERTICAL SCALE		DESIGNATION	
N/A		ENG2609631099	
SURVEY BOOK		SHEETS	
N/A		17 of 25	
CONTRACT		PROJECT	
N/A		ENG2609631099	

Proposed Structure:
9' X 5' Precast Reinforced Concrete Box Culvert

Existing Structure:
Structure No. 4
Asset ID: 93008775
6.0' x 4.0' ID Corrugated Metal Pipe

Table 3: Summary of Soil Parameters for Structure and Wingwall Design	
Foundation Bearing Soil Type	A-2-4 Sandy Loam
Friction Angle between Wingwall and Backfill ¹ (deg)	20
Estimated Unit Weight of Structure Backfill, $\gamma_{moist,saturated}$ (pcf)	120
Angle of Friction between Footing and Crushed Stone (δ , deg)	26
Undrained Cohesion of Foundation Soil (s_u , psf) (A-2-4 Sandy Loam)	1,000
Adhesion of Foundation Soil (C_a , psf) (A-2-4 Sandy Loam)	1,000
Drained Internal Friction Angle of Foundation Soil (ϕ' , deg) (A-2-4 Sandy Loam)	30
Factored Bearing Resistance (psf) ²	2,500
Resistance Factor (ϕ)	0.45
Nominal Bearing Resistance (psf) ²	5,500
1. Using Structure Backfill Type 2	
2. Calculated based on undrained cohesion	

DESIGN DATA

Structure shall be designed for HL-93 Loading, in accordance with AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017.

DEAD LOAD

Actual weight plus 35 lb/ft² for future wearing surface.

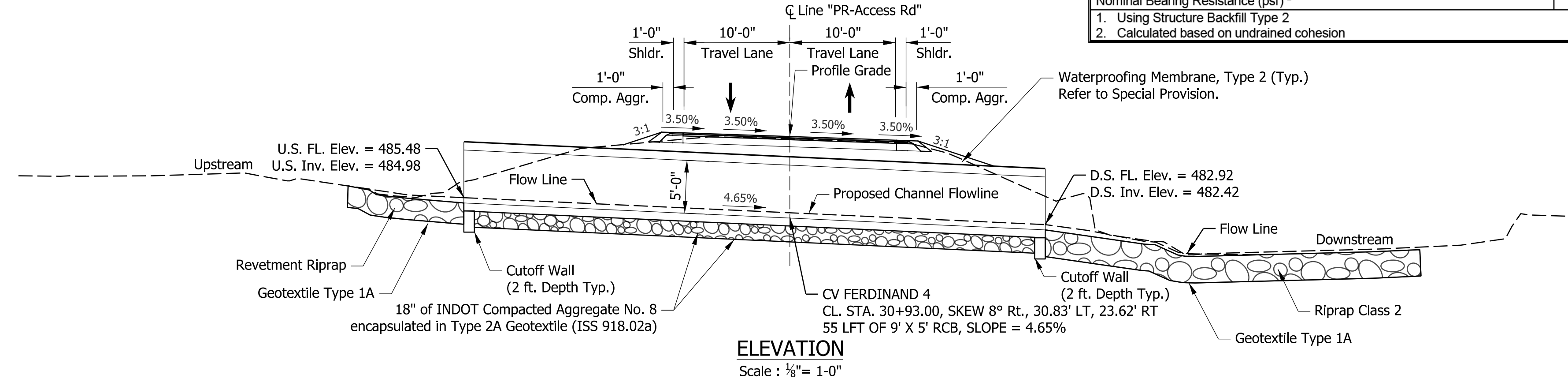
DESIGN STRESSES

CONCRETE

Class "A" Concrete	f'_c = 5,000	psi	(Cu
Class "A" Concrete	f'_c = 4,000	psi	(Wi
Class "B" Concrete	f'_c = 3,000	psi	

REINFORCING STEEL

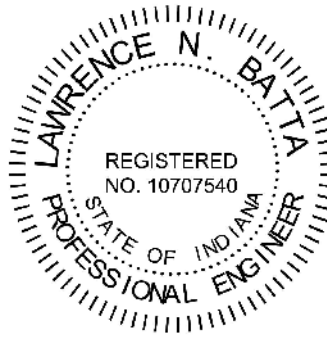
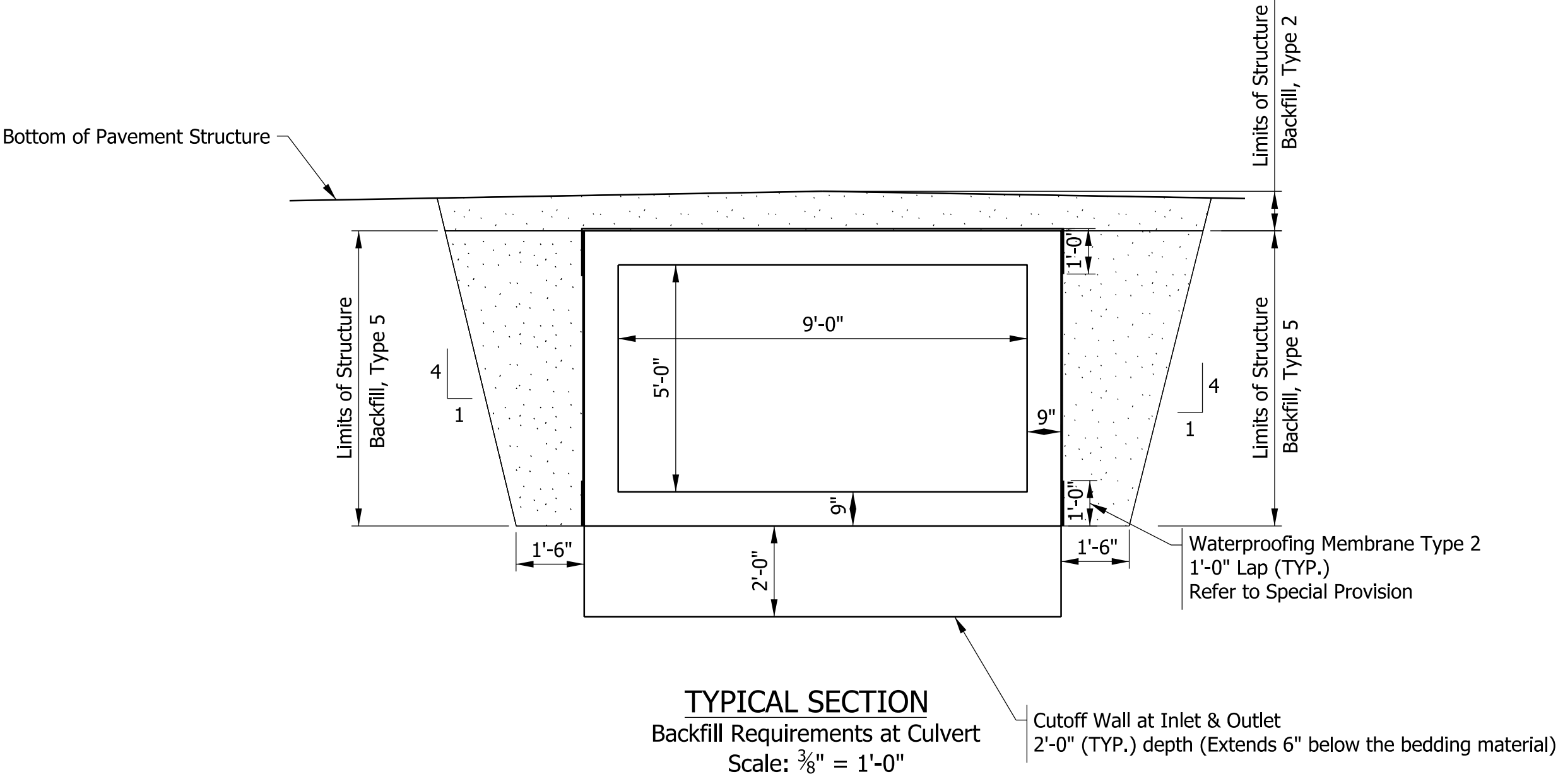
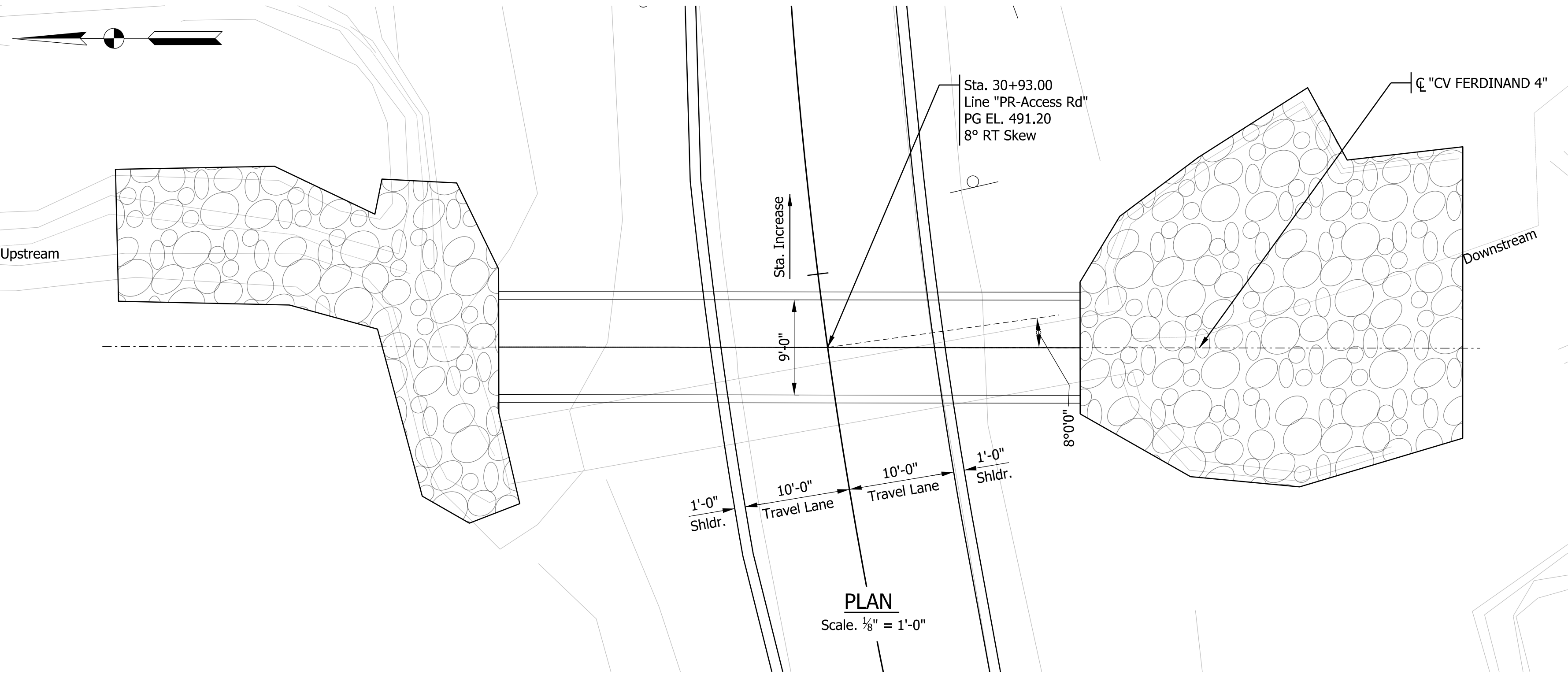
Grade 60	f_y = 60,000	psi
Welded Wire Reinforcement	f_y = 65,000	psi



HYDRAULIC DATA			
Drainage Area	=	567	acres
Q100 H.W.E. (Natural Channel)	=	N/A	ft.
Q100 H.W.E. (Existing Channel)	=	491.98	ft.
Q100 H.W.E. (Proposed Channel)	=	487.6	ft.
Waterway Opening Required (Below Q100)	=	N/A	
Waterway Opening Required (Below Q100)	=	N/A	
Backwater @ Q100	=	0.64	ft.
Velocity @ Q10	=	10.7	ft/s
Design Discharge Q100	=	877	cfs
PRECAST REINFORCED CONCRETE BOX CULVERT			
SPAN: 9 FT, RISE 5 FT, 8 DEG SKEW RT.			
CV FERDINAND 4, LINE "PR-ACCESS RD" STA. 30+93.00			

Notes to Contractor:

According to the Geotechnical evaluation, the yielding soil is anticipated to be encountered at the base of the culvert. The yielding soil shall be undercut to a depth of 18 in. below the bottom of the culvert and replaced with INDOT Compacted Aggregate No. 8 encapsulated with Type 2A geotextile as per IDM Specification 918.02a under the entire base area of the culvert.



RECOMMENDED FOR APPROVAL	<i>L.N. Batta</i>	1/9/2026
DESIGNED: RK	8/15/2025	DRAWN: BTS 8/15/2025
CHECKED: LNB	1/9/2026	CHECKED: RK 1/9/2026

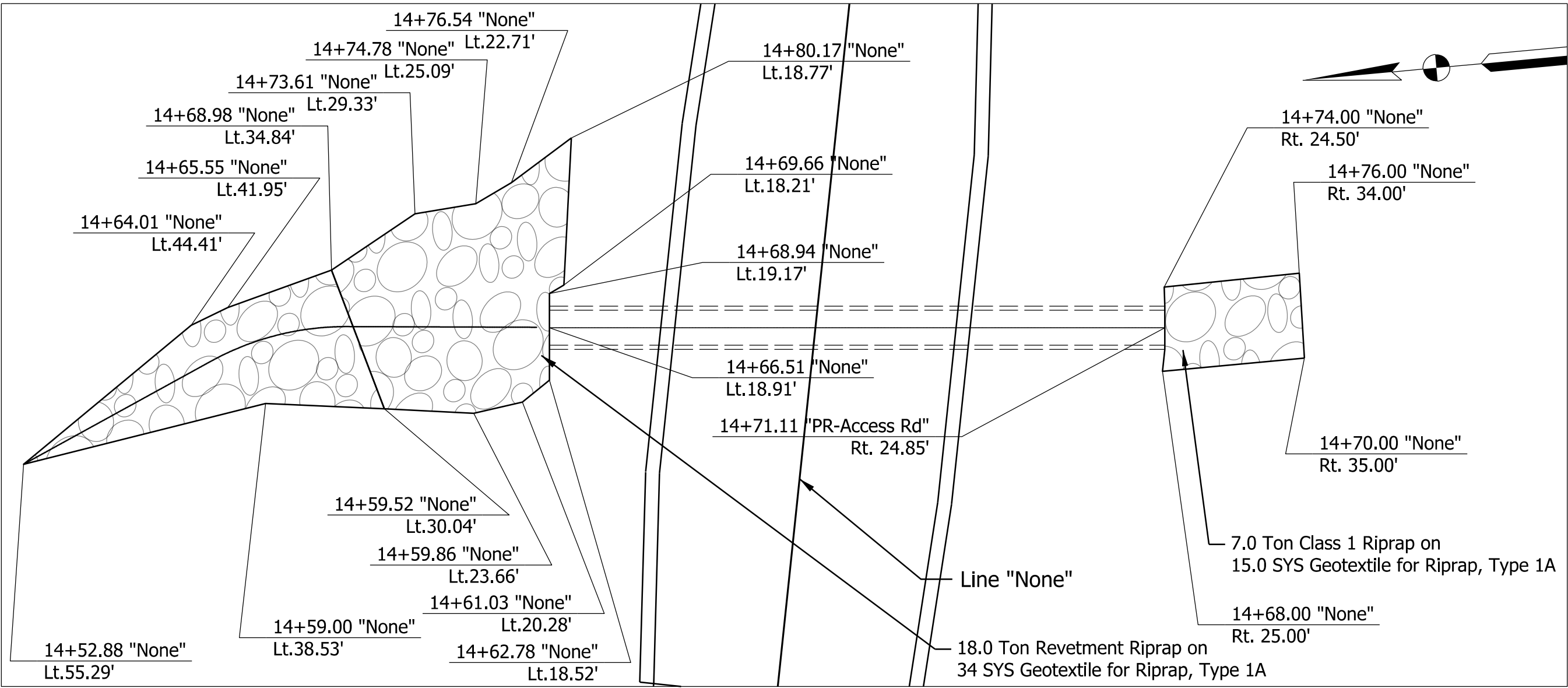
INDIANA
DEPARTMENT OF NATURAL RESOURCES

GENERAL PLAN - CV FERDINAND 4
LINE "PR-ACCESS RD"

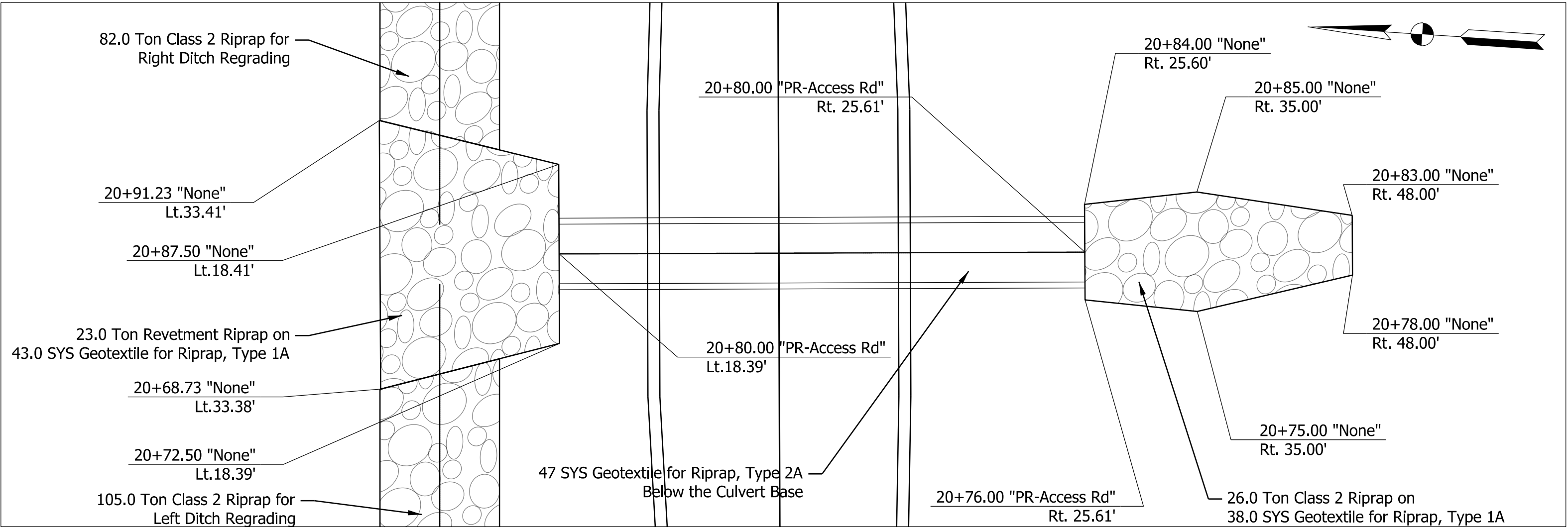
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AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
N/A	ENG2609631099
SURVEY BOOK	SHEETS
N/A	18 of 25
CONTRACT	PROJECT
N/A	ENG2609631099

Plot: 1/6/2026 5:47 PM

File: L:\IndianaDNR\24006672-00_FerdinandSFCulverts\667200\Drawings\667200 Sht_Riprap Details_01.dgn
Model: Sht_Riprap Details_01



CV FERDINAND 1A



CV FERDINAND 2



RECOMMENDED FOR APPROVAL

L.N. Batta

DESIGN ENGINEER

1/9/2026
DATE

DESIGNED: RK

8/15/2025

DRAWN: BTS

8/15/2025

CHECKED: LNB

1/9/2026

CHECKED: RK

1/9/2026

INDIANA
DEPARTMENT OF NATURAL RESOURCES

RIPRAP DETAILS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE

1/8" = 1'

VERTICAL SCALE

N/A

CONTRACT

N/A

BRIDGE FILE

N/A

DESIGNATION

ENG2609631099

SURVEY BOOK

N/A

SHEETS

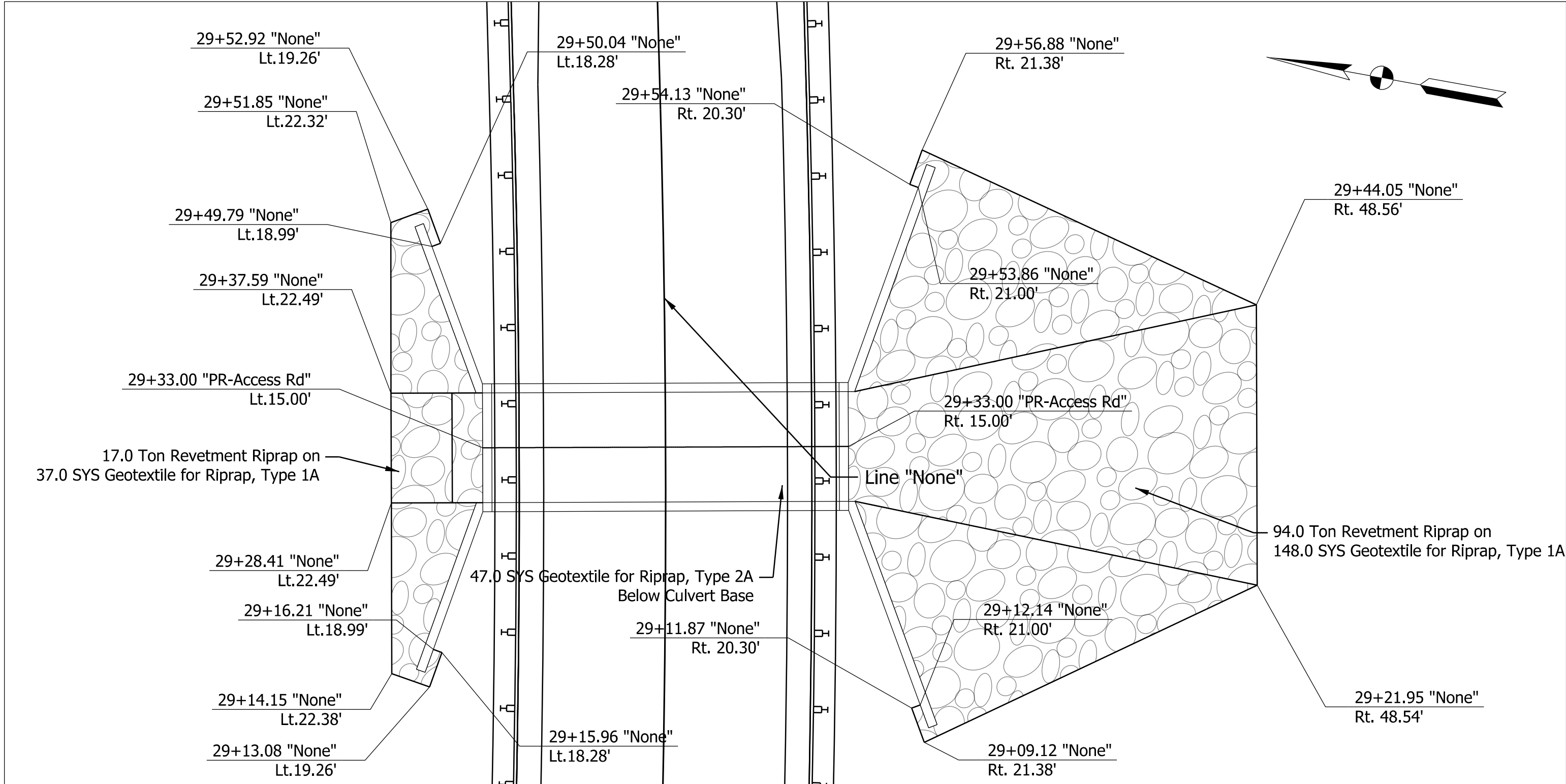
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of

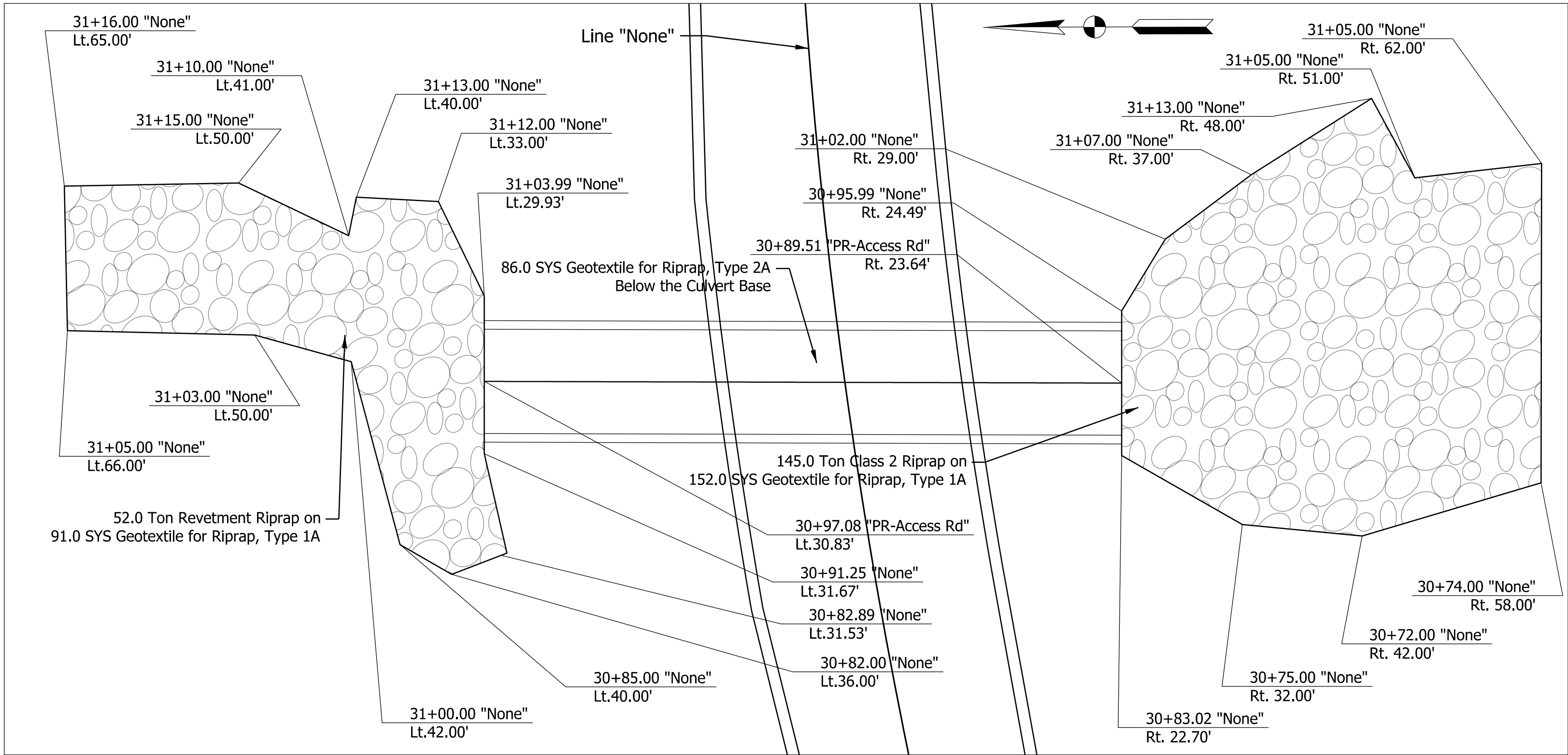
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PROJECT

N/A



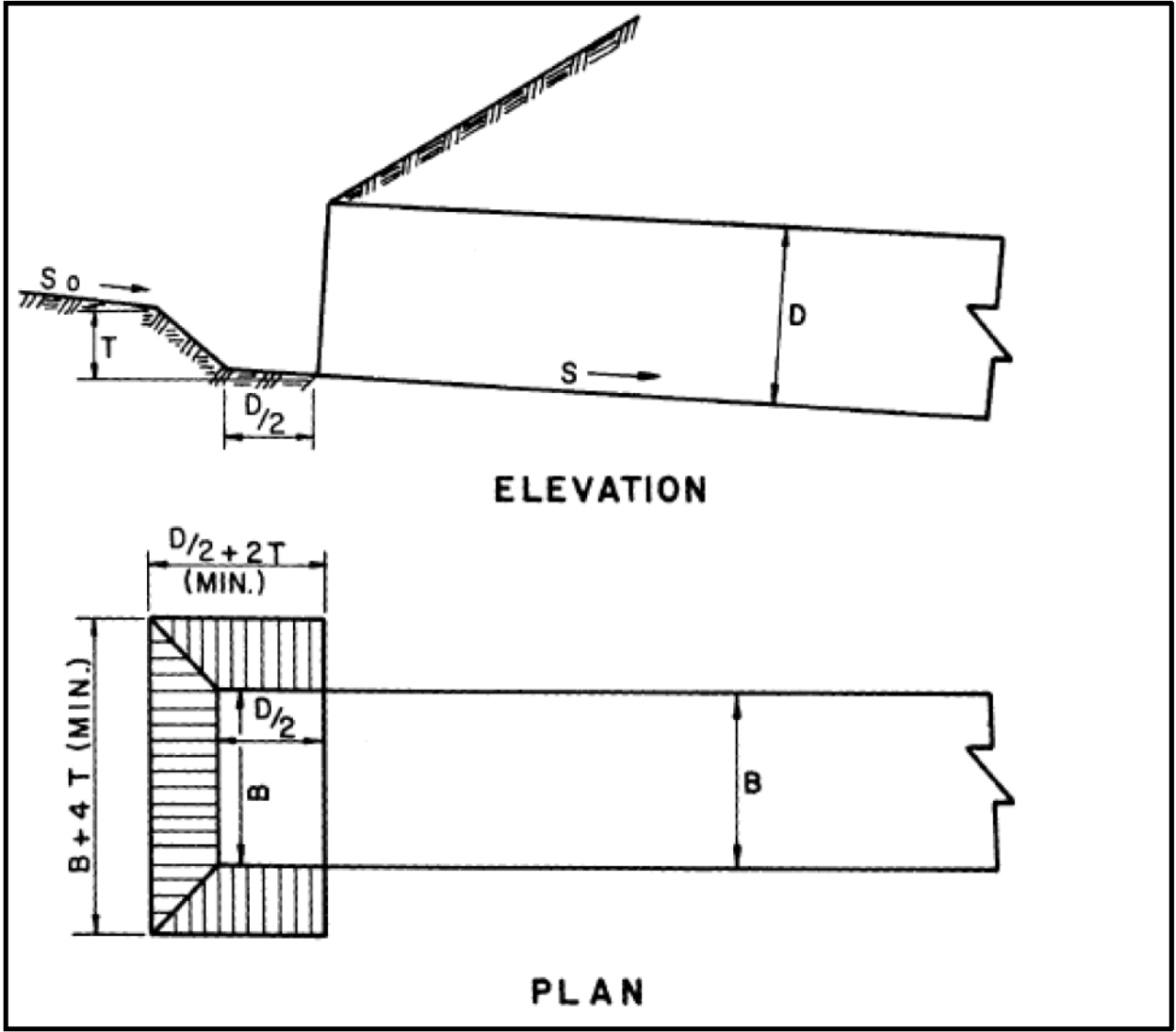
CV FERDINAND 3



CV FERDINAND 4

INLET DEPRESSION PROPERTIES UPSTREAM "CV FERDINAND 3"	
T	2.5 ft
D	5 ft
B	9 ft
D/2 (Apron)	2.5 ft
B+4T (Total Width)	19 ft
D/2 + 2T (Total Width)	7.5 ft
Total Crest Width	34 ft
Riprap Class	Revetment

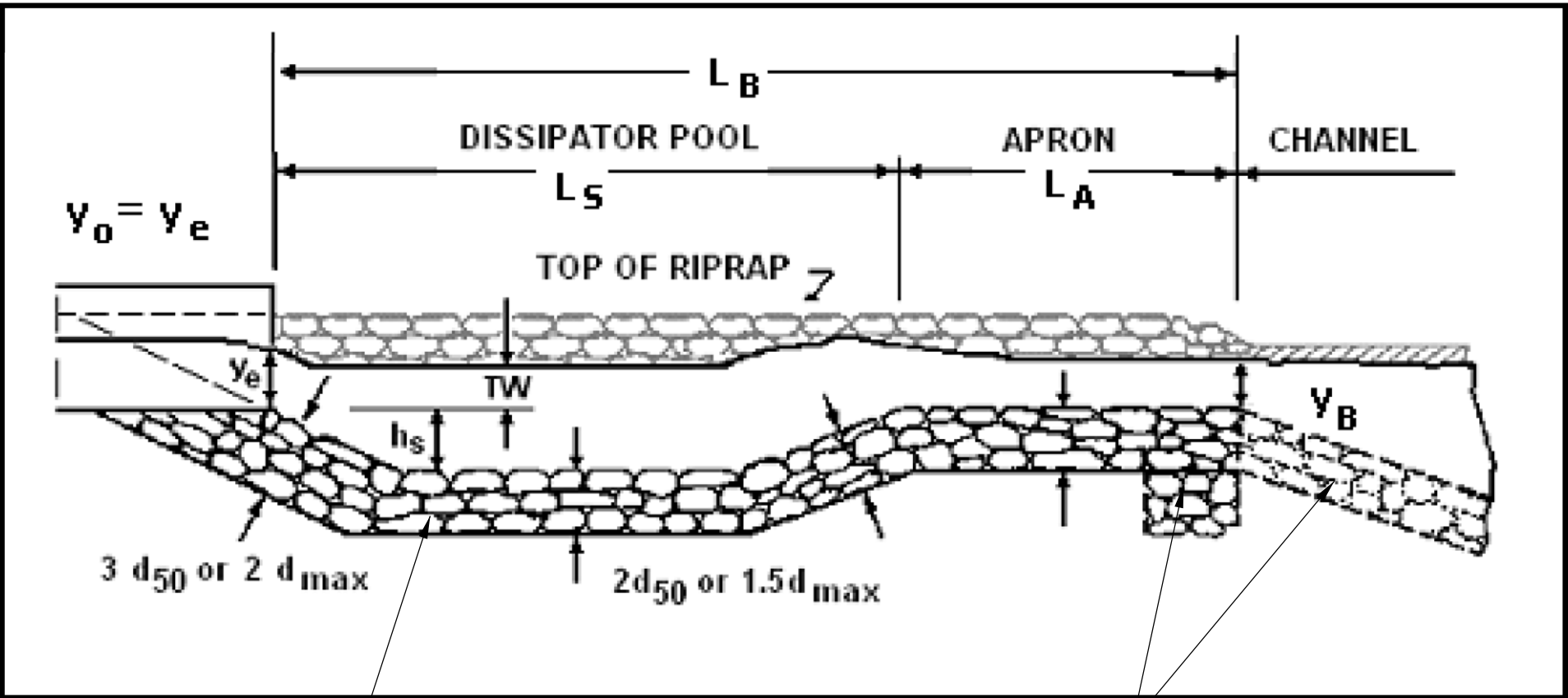
RIPRAP BASIN PROPERTIES DOWNSTREAM "CV FERDINAND 3"	
Basin Length (Lb)	33.5 ft
Basin Width	30.5 ft
Apron Length (La)	8.5 ft
Pool Depth (hs)	2 ft
Riprap Size	Revetment



INLET DEPRESSION DETAILS

CV FERDINAND 3

Scale: NTS



ENERGY DISSIPATOR DETAILS-RIPRAP BASIN

CV FERDINAND 3

Plot: 1/6/2026 5:47 PM

File: L:\IndianaDNR\24006672-00_FerdinandSFCulverts\667200\Drawings\667200 Sht_Riprap Details_01.dgn
Model: Sht_Riprap Details_02

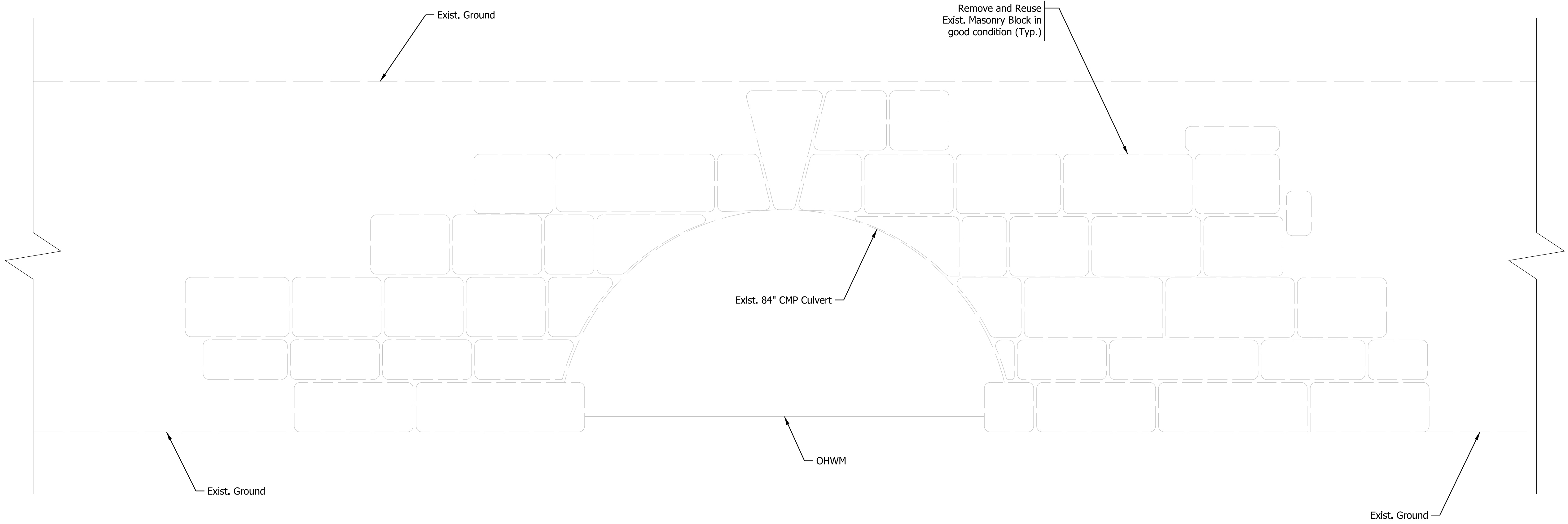


RECOMMENDED FOR APPROVAL	<i>LNB</i>	1/9/2026
DESIGNED: RK	8/15/2025	DRAWN: BTS 8/15/2025
CHECKED: LNB	1/9/2026	CHECKED: RK 1/9/2026

INDIANA
DEPARTMENT OF NATURAL RESOURCES

RIPRAP DETAILS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'	N/A
VERTICAL SCALE	DESIGNATION
N/A	ENG2609631099
SURVEY BOOK	SHEETS
N/A	20 of 25
CONTRACT	PROJECT
N/A	N/A

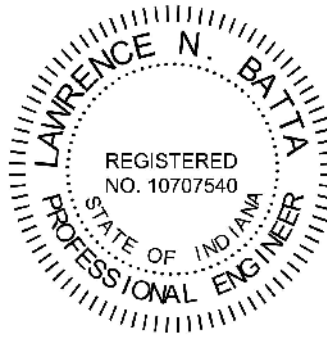


Note to Contractor:

Existing Sandstone blocks at proposed CV FERDINAND 3 culvert shall be removed to be reused as per IDNR preference.

Removal of these stones block are paid separately as headwall removal for masonry wall.

Plot: 1/6/2026 5:47 PM



RECOMMENDED FOR APPROVAL <i>L.N. Batta</i> 1/9/2026 DESIGN ENGINEER DATE			
DESIGNED: RK	8/15/2025	DRAWN: BTS	8/15/2025
CHECKED: LNB	1/9/2026	CHECKED: RK	1/9/2026

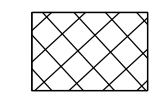
INDIANA DEPARTMENT OF NATURAL RESOURCES	
MASONARY WALL REMOVAL LAYOUT LINE "PR-ACCESS RD"	

HORIZONTAL SCALE 1" = 1'		BRIDGE FILE N/A	
VERTICAL SCALE 1" = 1'		DESIGNATION ENG2609631099	
SURVEY BOOK N/A		SHEETS 21 of 25	
CONTRACT N/A		PROJECT ENG2609631099	

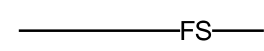
Plot: 1/5/2026 5:48 PM

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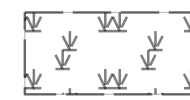
LEGEND:



Erosion Control Blanket



Filter Sock



Wetland



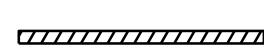
Construction Limits
Permanent Impacts



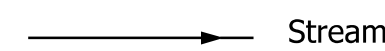
Temporary Entrance
Utilize existing roadway 50' length



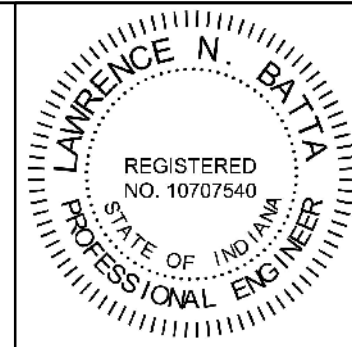
Temporary Check Dam



Sandbag Dike



Stream



RECOMMENDED
FOR APPROVAL

L.N. Batta
DESIGN ENGINEER

1/9/2026
DATE

DESIGNED: RK 8/15/2025

DRAWN: BTS 8/15/2025

CHECKED: LNB 1/9/2026

CHECKED: RK 1/9/2026

INDIANA
DEPARTMENT OF NATURAL RESOURCES

TEMPORARY EROSION CONTROL PLAN
LINE "PR-ACCESS RD"

HORIZONTAL SCALE

1"=20'

VERTICAL SCALE

N/A

DESIGNATION

ENG2609631099

SURVEY BOOK

N/A

CONTRACT

N/A

BRIDGE FILE

N/A

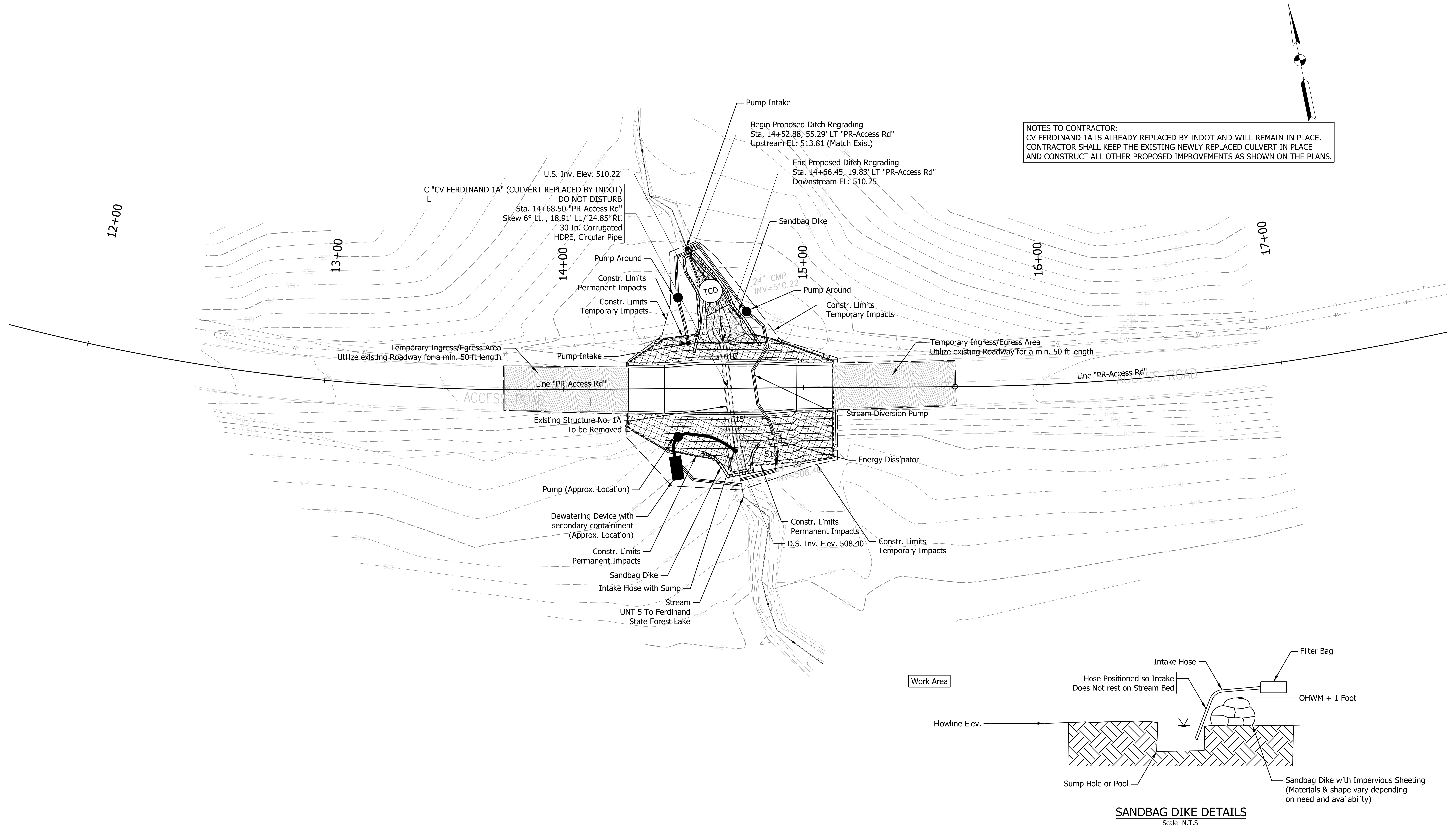
SHEETS

22 of 25

PROJECT

ENG2609631099

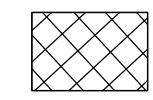
NOTES TO CONTRACTOR:
CV FERDINAND 1A IS ALREADY REPLACED BY INDOT AND WILL REMAIN IN PLACE.
CONTRACTOR SHALL KEEP THE EXISTING NEWLY REPLACED CULVERT IN PLACE
AND CONSTRUCT ALL OTHER PROPOSED IMPROVEMENTS AS SHOWN ON THE PLANS.



Plot: 1/6/2026 5:48 PM

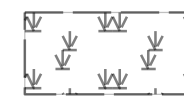
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LEGEND:



Erosion Control Blanket

FS Filter Sock



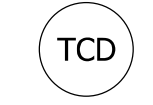
Wetland



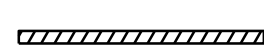
Construction Limits
Permanent Impacts



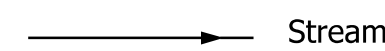
Temporary Entrance
Utilize existing roadway 50' length



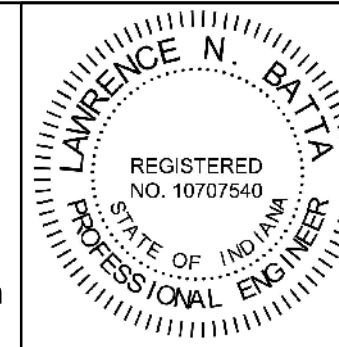
Temporary Check Dam



Sandbag Dike



Stream



RECOMMENDED
FOR APPROVAL

L.N. Batta
DESIGN ENGINEER

1/9/2026
DATE

DESIGNED: RK 8/15/2025

DRAWN: BTS 8/15/2025

CHECKED: LNB 1/9/2026

CHECKED: RK 1/9/2026

INDIANA
DEPARTMENT OF NATURAL RESOURCES

TEMPORARY EROSION CONTROL PLAN
LINE "PR-ACCESS RD"

HORIZONTAL SCALE

1"=20'

VERTICAL SCALE

N/A

SURVEY BOOK

N/A

CONTRACT

N/A

BRIDGE FILE

N/A

DESIGNATION

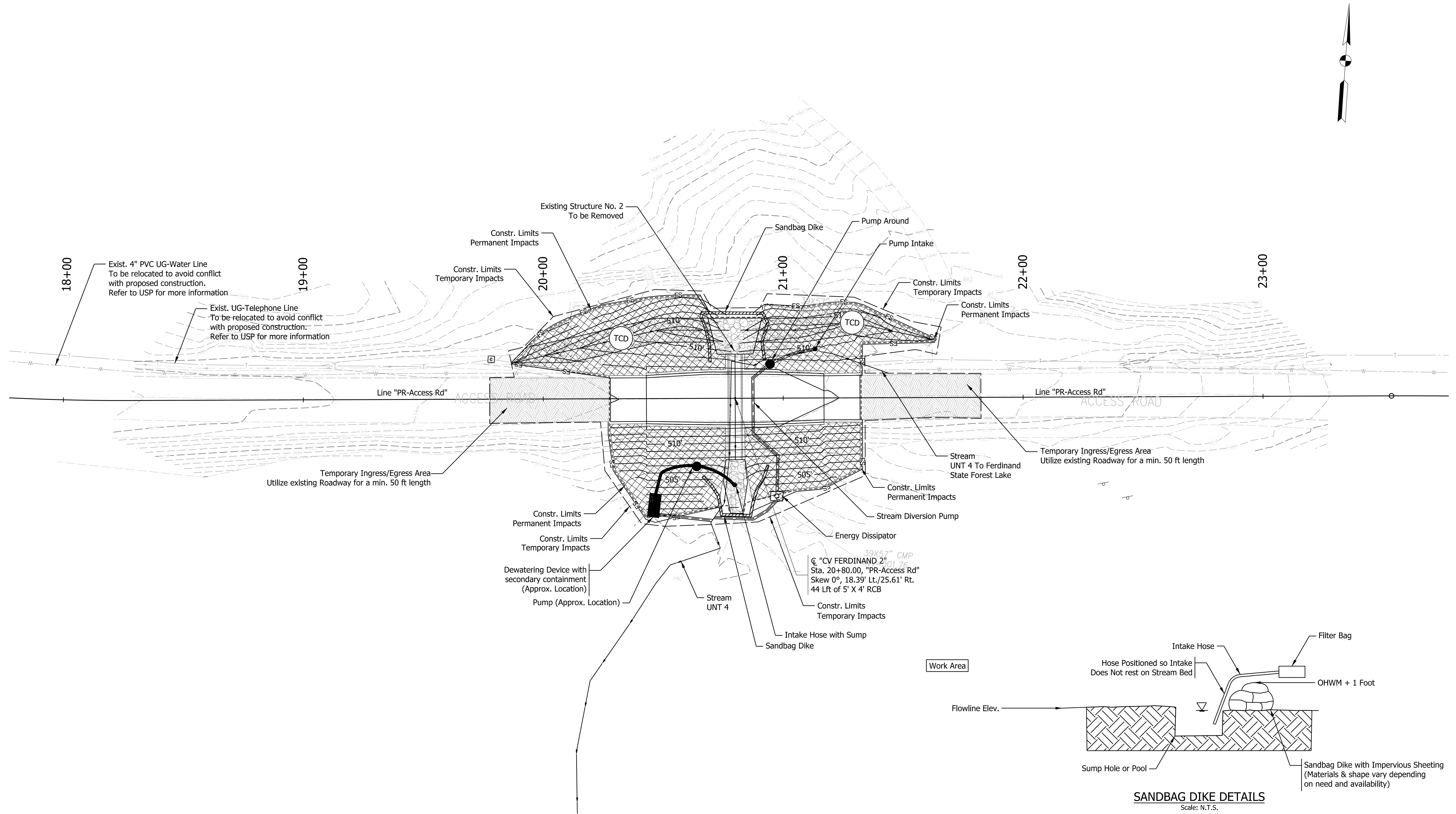
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SHEETS

23 of 25

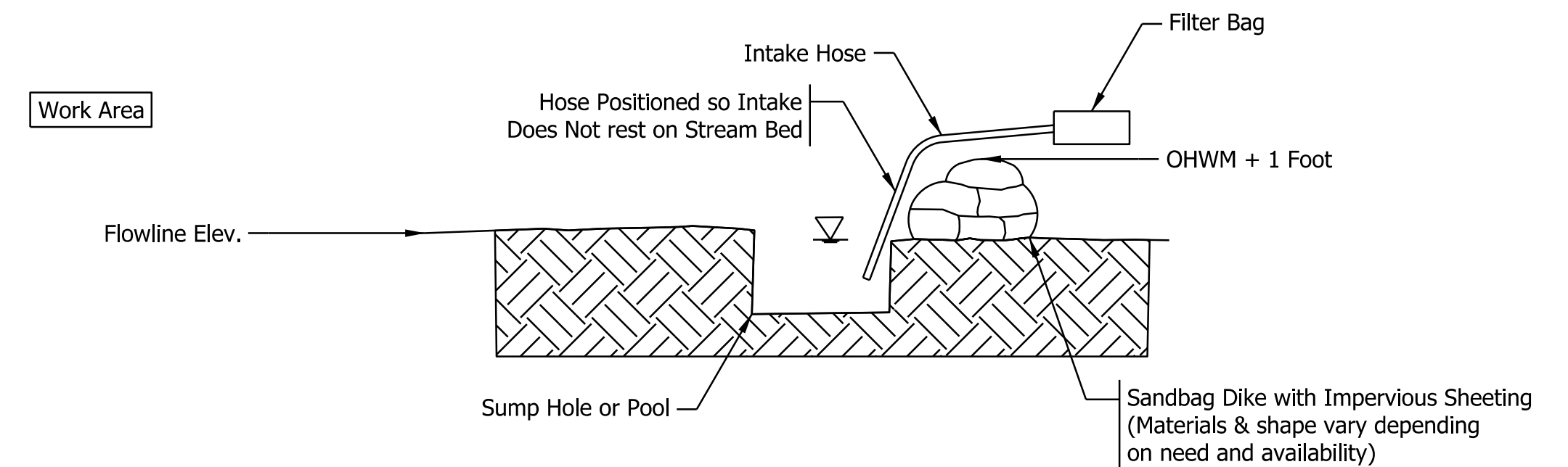
PROJECT

ENG2609631099



SANDBAG DIKE DETAILS

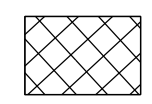
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Plot: 1/6/2026 5:48 PM

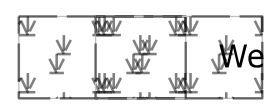
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LEGEND:



Erosion Control Blanket

FS Filter Sock



Wetland

Construction Limits

Permanent Impacts



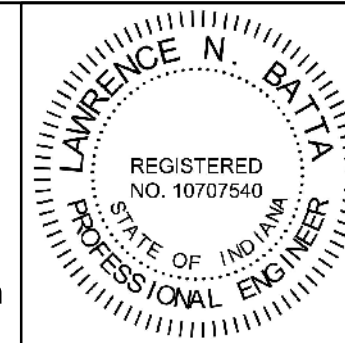
Temporary Check Dam

Sandbag Dike

Stream

Temporary Entrance

Utilize existing roadway 50' length



RECOMMENDED FOR APPROVAL

L.N. Batta
DESIGN ENGINEER

1/9/2026
DATE

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INDIANA
DEPARTMENT OF NATURAL RESOURCES

TEMPORARY EROSION CONTROL PLAN
LINE "PR-ACCESS RD"

HORIZONTAL SCALE

1"=20'

VERTICAL SCALE

N/A

SURVEY BOOK

N/A

CONTRACT

N/A

BRIDGE FILE

N/A

DESIGNATION

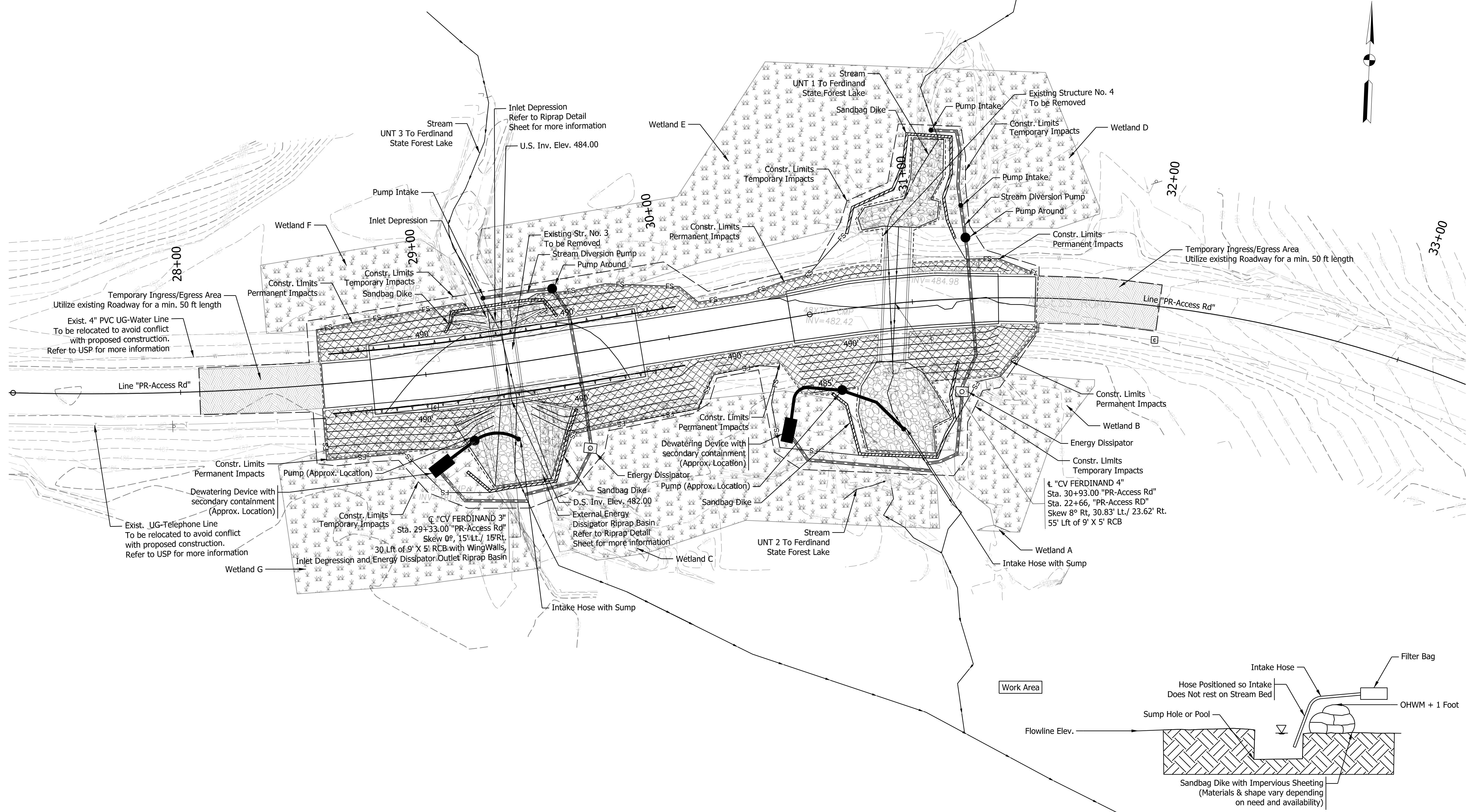
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SHEETS

24 of 25

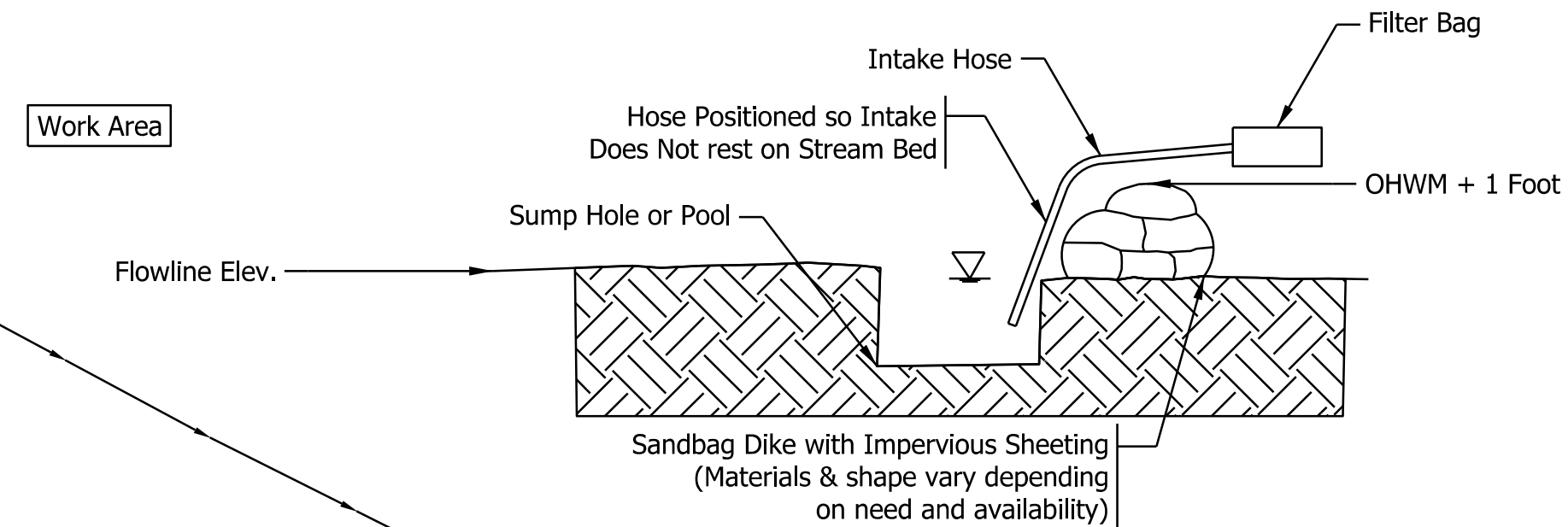
PROJECT

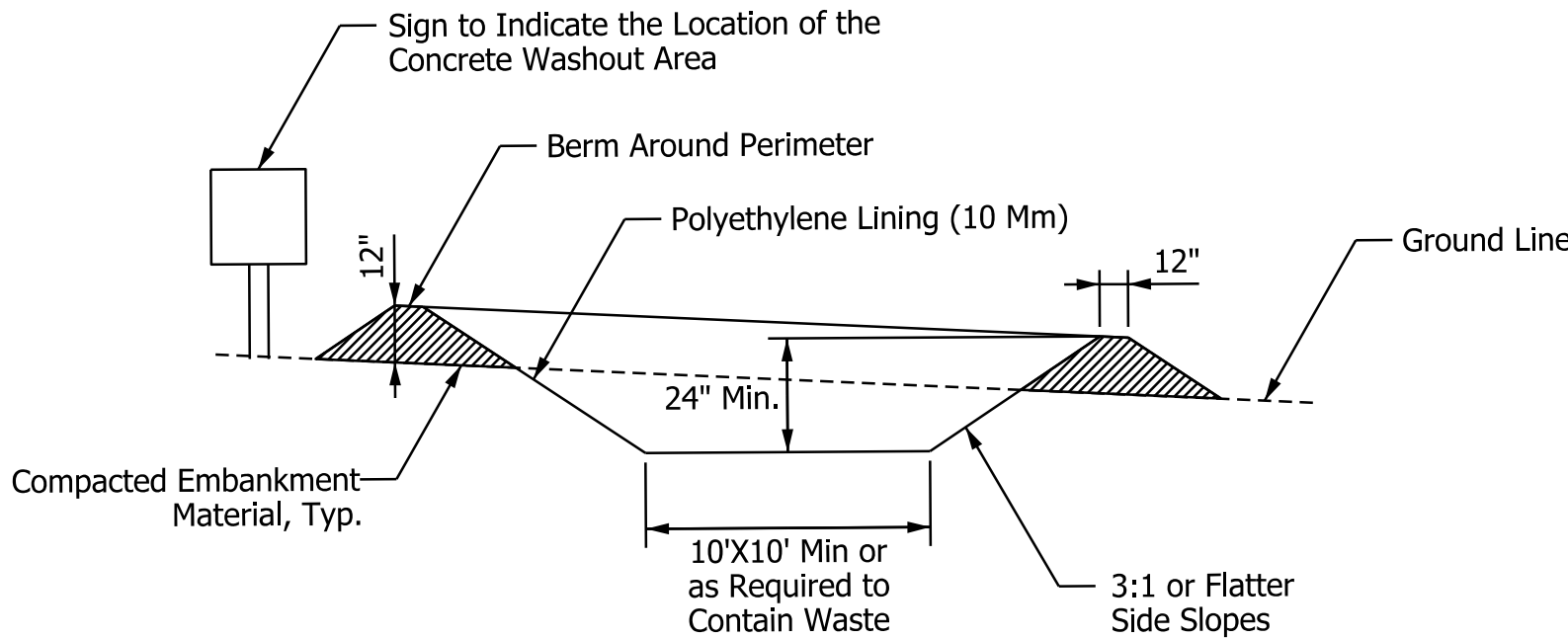
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SANDBAG DIKE DETAILS

Scale: N.T.S.





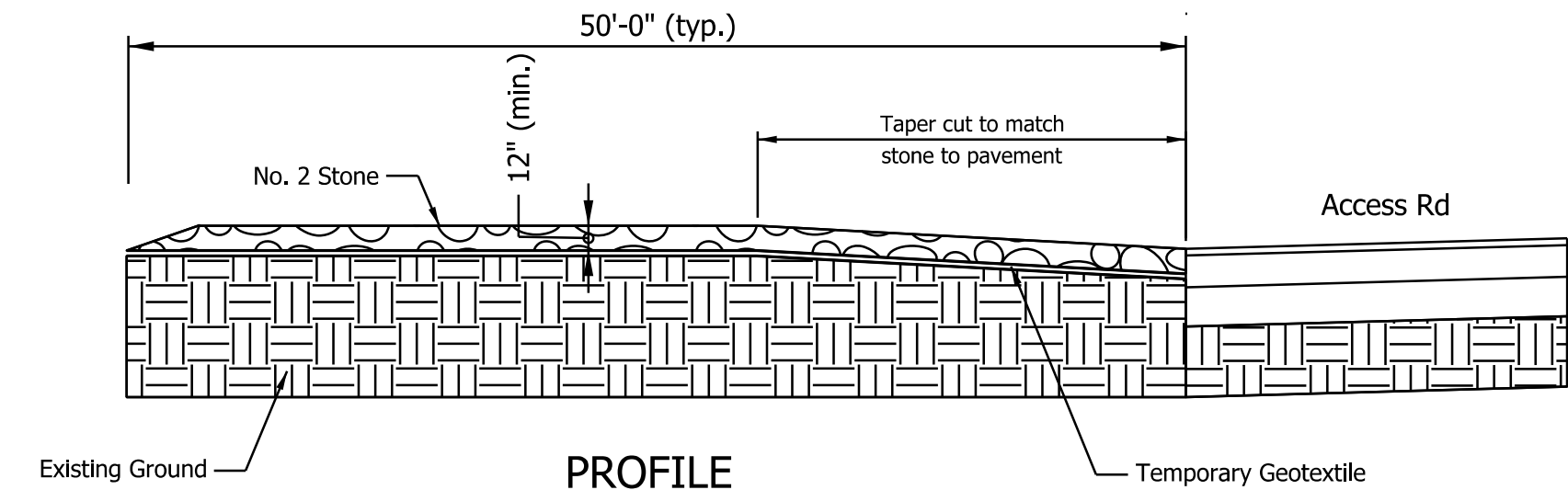
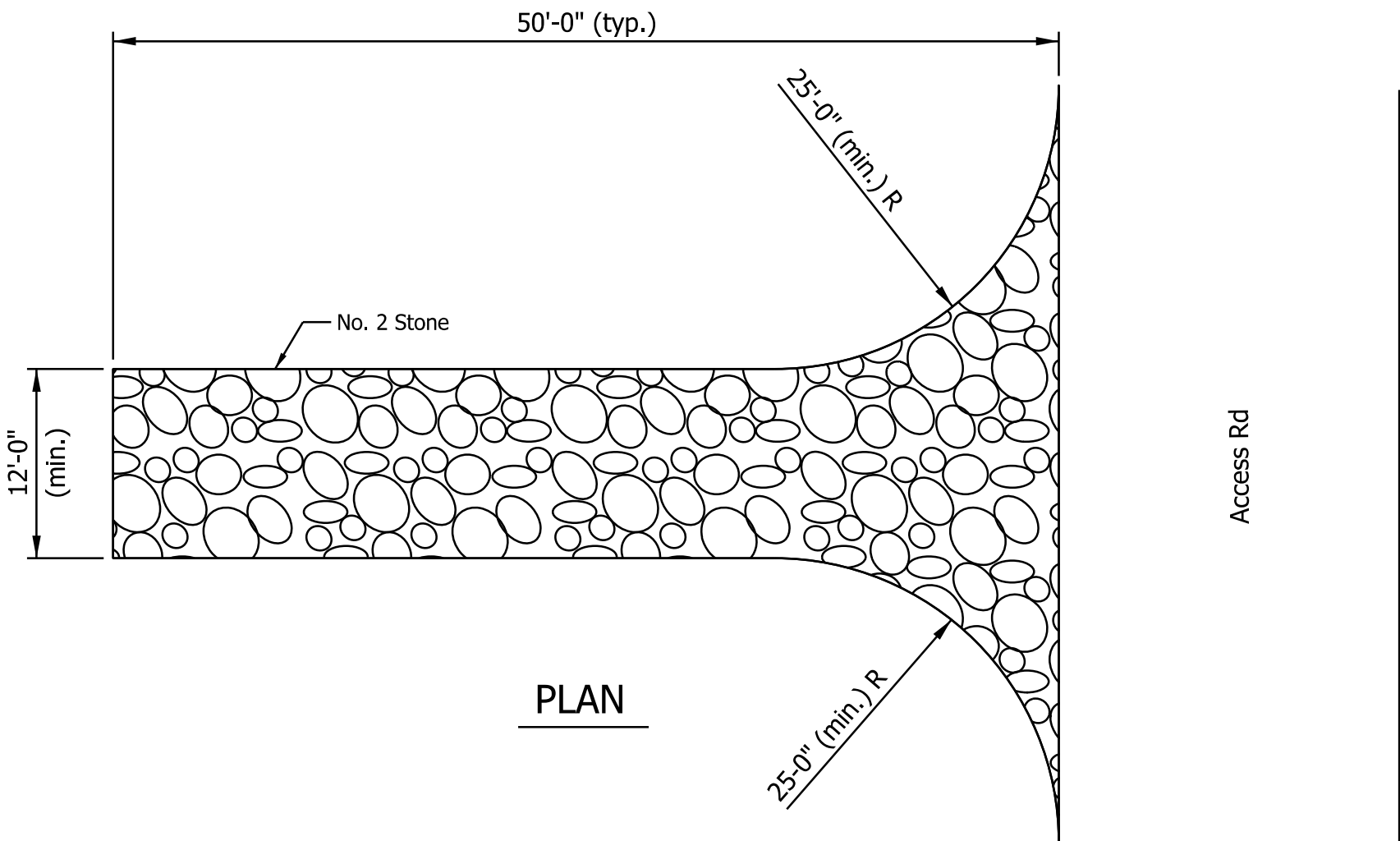
Notes:

- Concrete washout area shall be installed prior to any concrete placement on site.
- The concrete washout area shall be repaired and enlarged or cleaned out as necessary to maintain capacity for wasted concrete.
- The concrete washout shall be inspected daily or after a significant rainfall event for damage and repaired as necessary and as approved by the Engineer.
- At the end of construction, all concrete shall be removed from the site and disposed of at an approved waste site.
- When the concrete washout area is removed, the disturbed area shall be stabilized in a manner approved by the Engineer.
- No direct payment will be made for concrete washouts.

CONCRETE WASHOUT DETAIL

NTS

Concrete washout containers may also be used.



INGRESS / EGRESS
TRACKOUT CONTROL DEVICE

NTS

Maintenance Notes:

- Inspect daily.
- Reshape pad as needed for drainage and runoff control.
- Top-dress with clean aggregate as needed.
- Immediately remove mud and sediment tracked or washed onto public roads.
- Flushing should only be used if the water from the construction drive can be conveyed into a sediment trap.

Installation Notes:

- Grade the foundation and crown for positive drainage.
- Place INDOT CA No. 2 aggregate, leaving the surface smooth and sloped for drainage.
- Top-dress the drive with washed aggregate (INDOT CA No. 53).

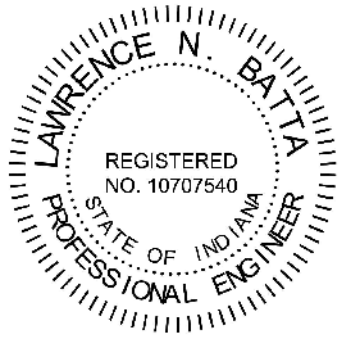
Contractor shall adjust the location of the ingress and egress as feasible based on site conditions.

Manufactured Trackout Control Device may also be used.

Note: Trackout Control Device shall be used for all work areas and non-paved staging areas. Locations not shown on plans.

Erosion Control Notes:

- The Contractor shall implement the temporary erosion control plan to minimize erosion within the construction site and to limit sediments from leaving the construction site by utilizing proper temporary erosion control systems.
- Certain erosion control facilities shall be installed by the Contractor at the beginning of construction. Other items shall be installed by the Contractor as approved by the Engineer on a case by case basis depending on the Contractor's sequence of activities, time of year and expected weather conditions.
- All temporary erosion control measures shall be inspected daily or after a significant rainfall event for large sediment deposits and damage. Temporary erosion control measures shall be repaired as necessary and as directed by the Engineer.
- The Contractor shall install permanent erosion control systems within a time specified herein and as directed by the Engineer. The Engineer will determine if any temporary erosion control systems listed in the plans can be deleted and if any additional temporary erosion control systems, which were not included in the plans, shall be added. The Contractor shall perform all work as approved by the Engineer or as shown in the standard drawings.
- Construction equipment shall be sorted and fueled only at designated locations as determined by the Engineer. All necessary measures shall be taken to contain any fuel or pollutant in accordance with EPA water quality regulations. Leaking equipment or supplies shall be immediately repaired or removed from the site.
- Sediment collected during construction of various temporary erosion control systems shall be disposed of on site on a regular basis as approved by the Engineer. No direct payment will be made.
- The temporary erosion control systems shall be left in place with proper maintenance until permanent erosion control measures are in place and working properly.
- The temporary erosion control systems shall be removed as approved by the Engineer after use is no longer needed or system is no longer functioning. The cost of this removal shall be included in the unit bid price for the various temporary erosion control items.
- On-site and off-site soil stockpile and borrow areas shall be protected from erosion and sedimentation through implementation of best management practices. Stockpile and borrow area locations shall be permitted in accordance with the applicable permit requirements.
- Temporary seeding shall be installed where additional work is not scheduled for at least 7 calendar days.
- Temporary erosion control measures shall be installed in conjunction with Maintenance Of Traffic - construction staging.
- Disturbed areas with slopes 3:1 or greater shall be immediately seeded and protected with erosion balnkets upon completion of grading.
- Flow in creek, channel or culvert shall not be impeded during consturction.
- All proposed erosion and sediment control shall be in conformance with Chapter 600 of the City of Indianapolis Stormwater Specifications Manual, latest edition. Discrepancies between the plans and the Manual shall not alleviate the contractor from adhering to the requirments as set forth in the Manual.
- Additional erosion and sediment control measures may be required by the inspector.
- Waste water, such as concrete washout, shall be completely contained and disposed of properly. No waste water shall be allowed on the ground, in a sewer, in a stream or any other location where it is not contained.
- No fill material, such as stone for temporary crossings, construction materials, demolition debris or equipment is allowed in a waterway without the appropriate permits.
- Inlet protection must be provided by the contractor during milling operations and until the surface course is placed.
- Inlet protection must have an overflow, be maintainable without dropping collected sediment and other pollutants in the storm sewer and not impede active traffic.
- New inlet castings shall include the words "No Dumping, Drains to Stream" cast in raised or recessed letters at a minimum of 1-inch text height and a fish symbol.
- Post-construction water quality measures shall not be used as construction sediment control measures.
- Silt fence shall be trenched into the ground, shall not be located in concentrated flow areas such as ditches and shall be placed parallel to the countour.
- Construction pollution prevention controls such as erosion control, sediment control and stream diversions or pump arounds are required to protect the storm sewers and water bodies from pollutants during all phases of construction.
- Dewatering water shall be filtered prior to discharge into a storm sewer or water body.
- If contaminated soils are encountered, "Contaminated Soil, Remove" shall be performed in accordance to INDOT Specification 202.

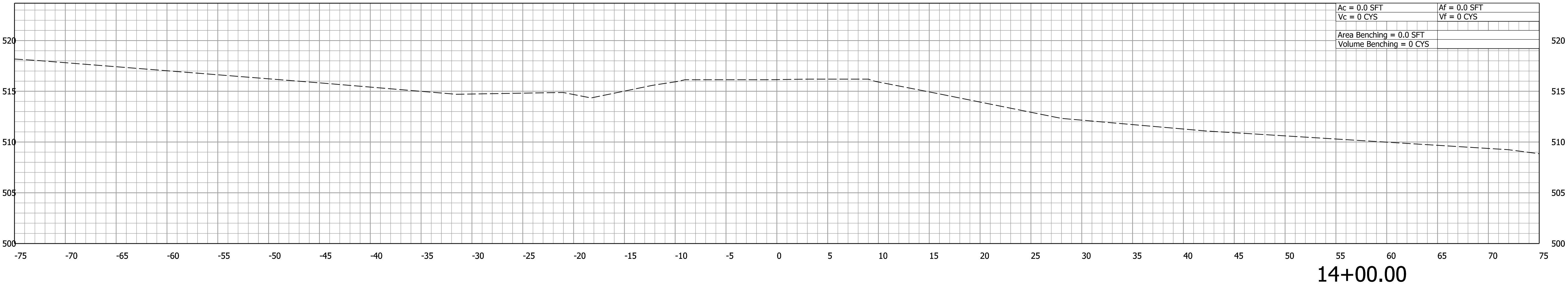
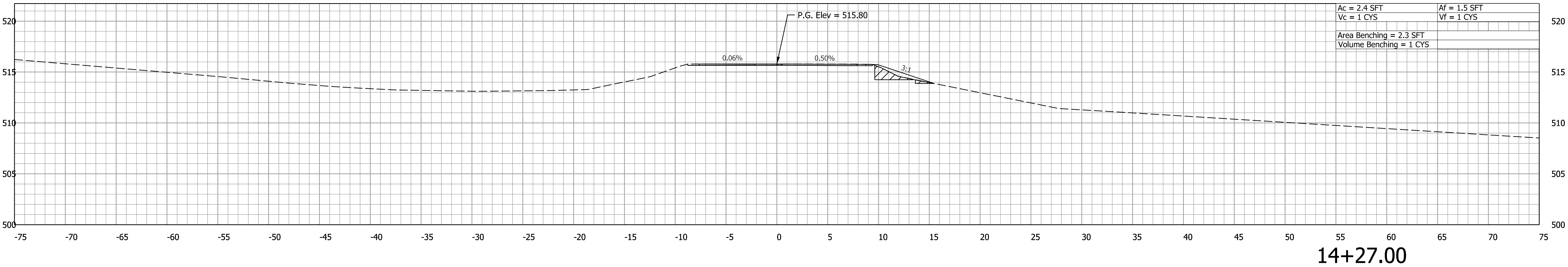
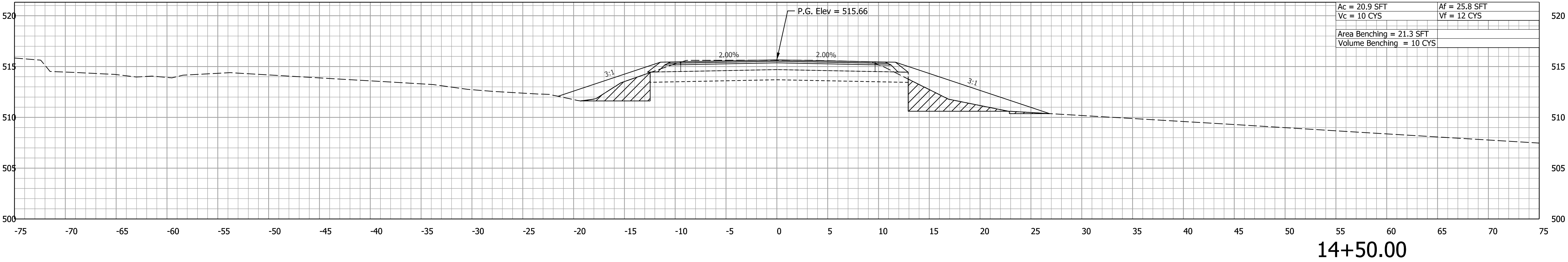


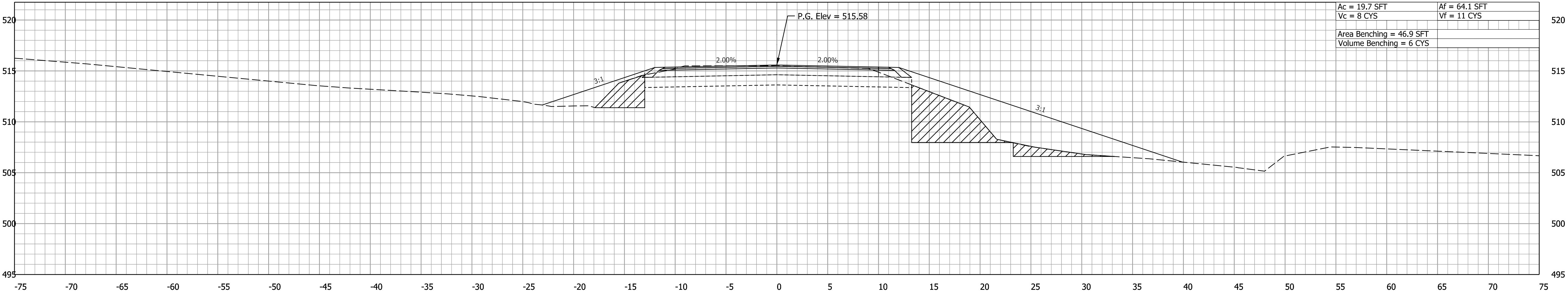
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DESIGNED: RK	8/15/2025	DRAWN: BTS 8/15/2025
CHECKED: LNB	1/9/2026	CHECKED: RK 1/9/2026

INDIANA
DEPARTMENT OF NATURAL RESOURCES

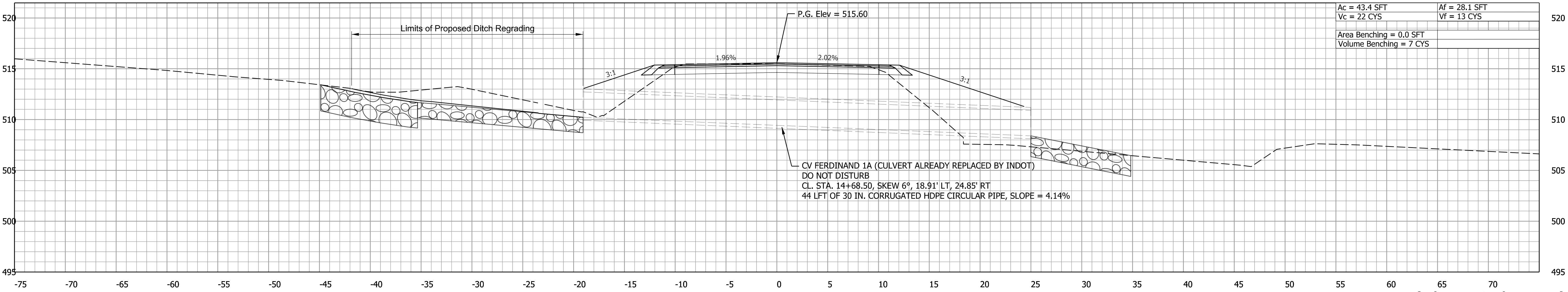
TEMPORARY EROSION CONTROL DETAILS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE	BRIDGE FILE
N/A	N/A
VERTICAL SCALE	DESIGNATION
N/A	ENG2609631099
SURVEY BOOK	SHEETS
	25 of 25
CONTRACT	PROJECT
	N/A





14+75.00



14+68.50 (Skew 6 deg Lt.)

Note:

1. All utilities information shall be considered QL-D unless otherwise indicated and is for information purposes only. The Contractor is responsible for locating and coordinating with the IDNR Property Manager in accordance with the plans and specifications for relocating them to avoid conflict with the proposed construction.

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: RK	8/15/2025	DRAWN: BTS	8/15/2025		
CHECKED: LNB	8/25/2025	CHECKED: RK	8/25/2025		

INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE		BRIDGE FILE	
1" = 5'		N/A	
VERTICAL SCALE		DESIGNATION	
1" = 5'		CDC24009631045	
SURVEY BOOK		SHEETS	
N/A		XS2	of XS16
CONTRACT		PROJECT	
N/A		CDC24009631045	

Plot: 1/6/2026 5:49 PM

Note:

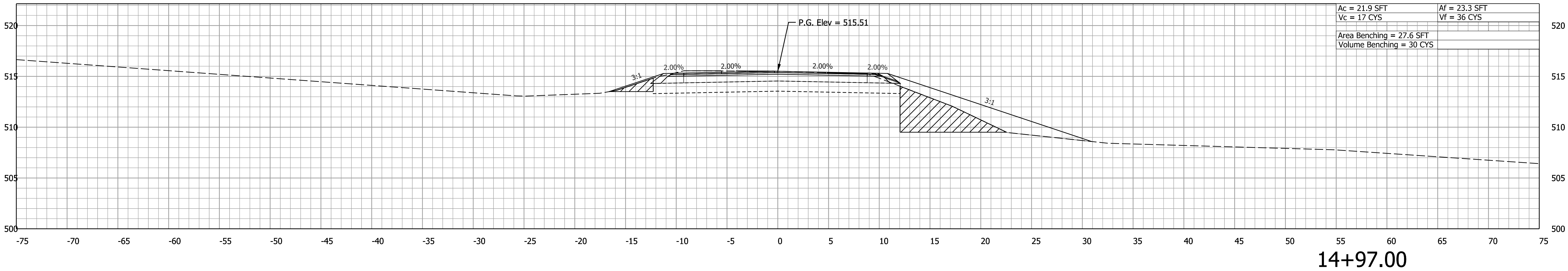
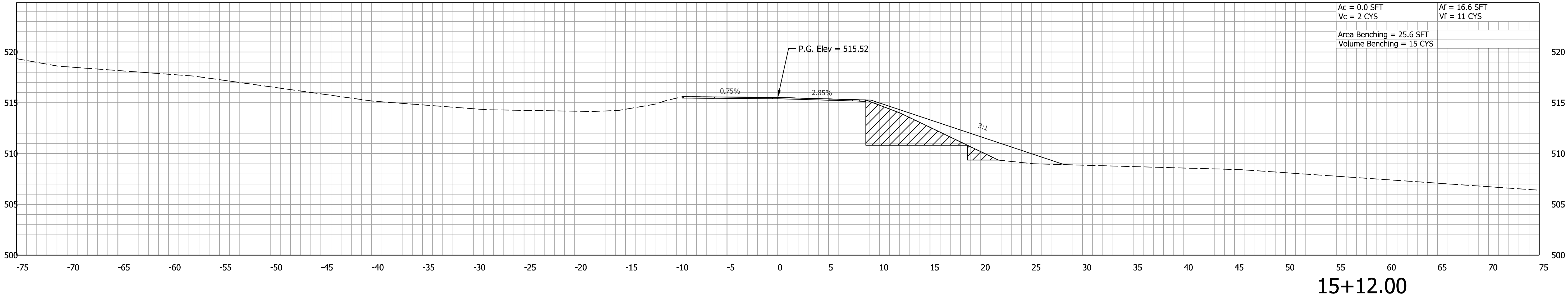
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CHECKED: LNB	8/25/2025	CHECKED: RK	8/25/2025		

INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE		BRIDGE FILE	
1" = 5'		N/A	
VERTICAL SCALE		DESIGNATION	
1" = 5'		CDC24009631045	
SURVEY BOOK		SHEETS	
N/A		XS3	of XS16
CONTRACT		PROJECT	
N/A		CDC24009631045	



Plot: 1/6/2026 5:49 PM

Note:

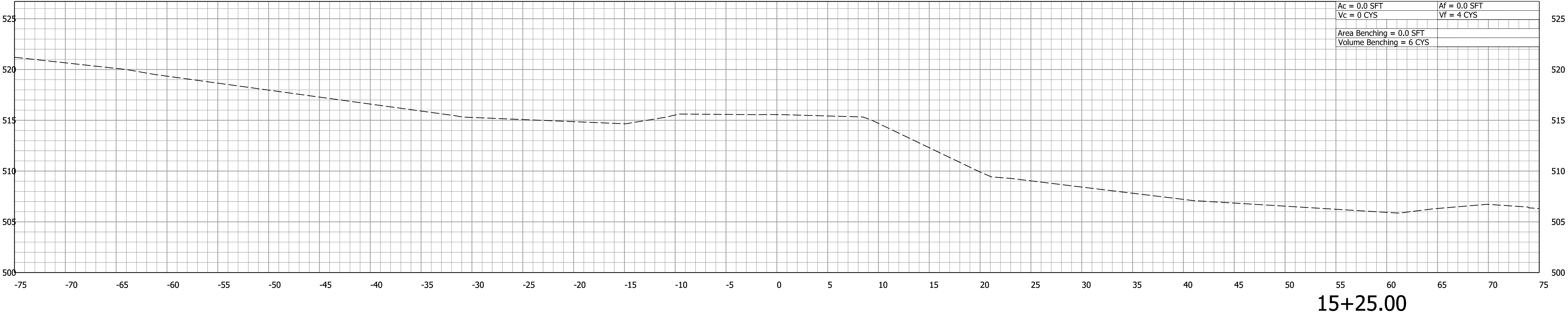
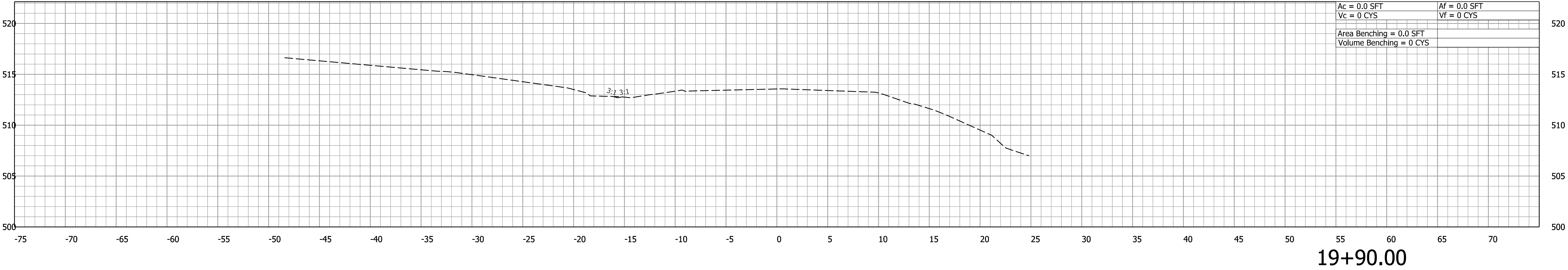
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				8/15/2025		8/15/2025	
				8/25/2025		8/25/2025	

INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE		BRIDGE FILE	
1" = 5'		N/A	
VERTICAL SCALE		DESIGNATION	
1" = 5'		CDC24009631045	
SURVEY BOOK		SHEETS	
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CONTRACT		PROJECT	
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Plot: 1/6/2026 5:49 PM

Note:

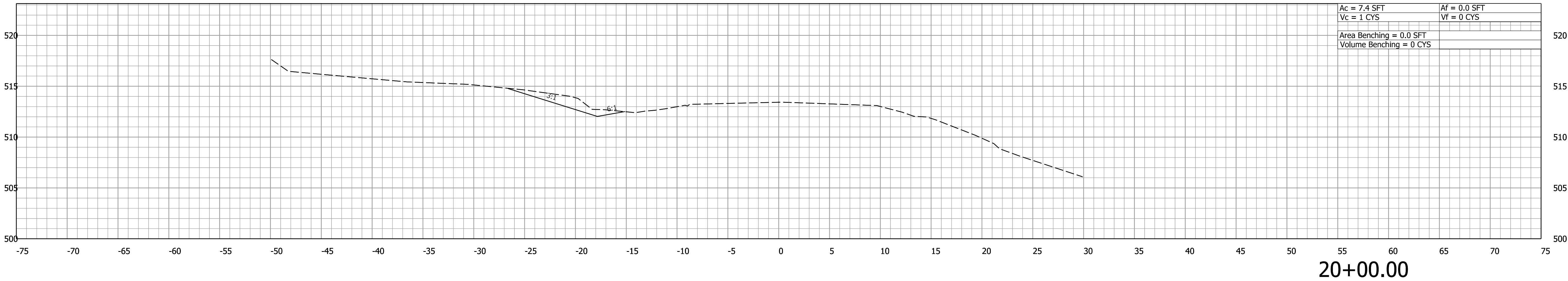
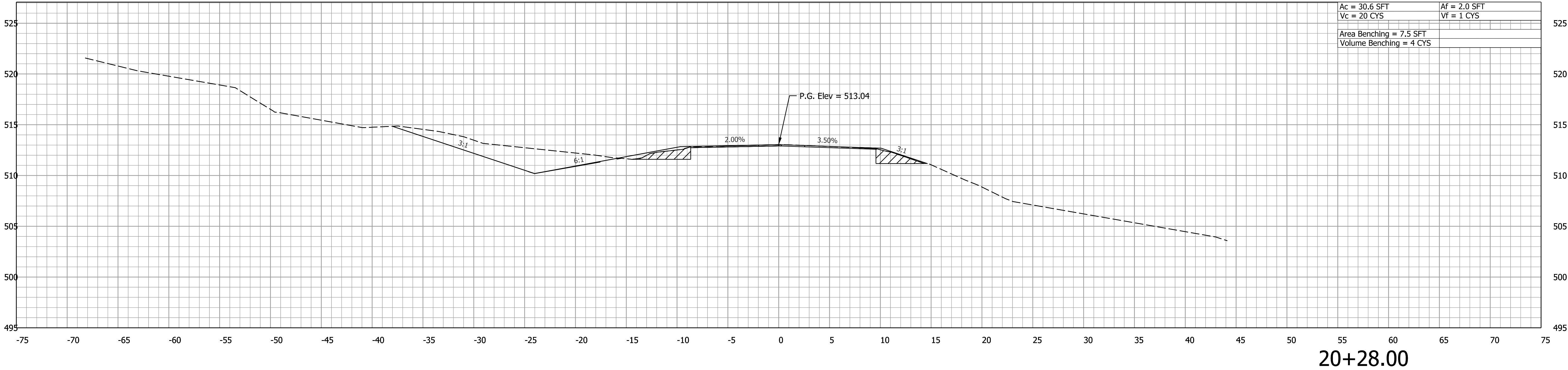
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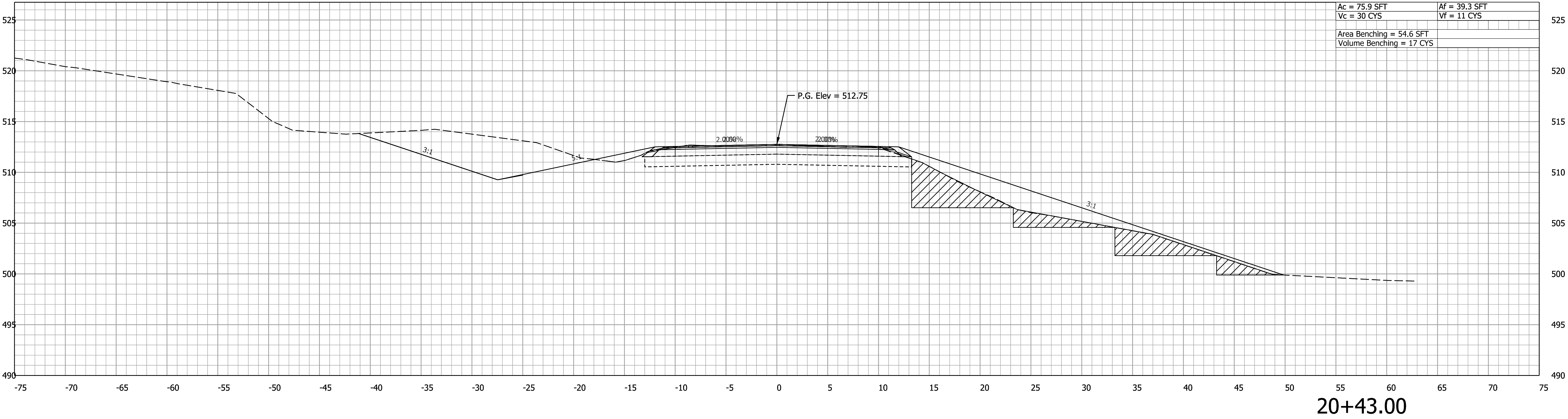
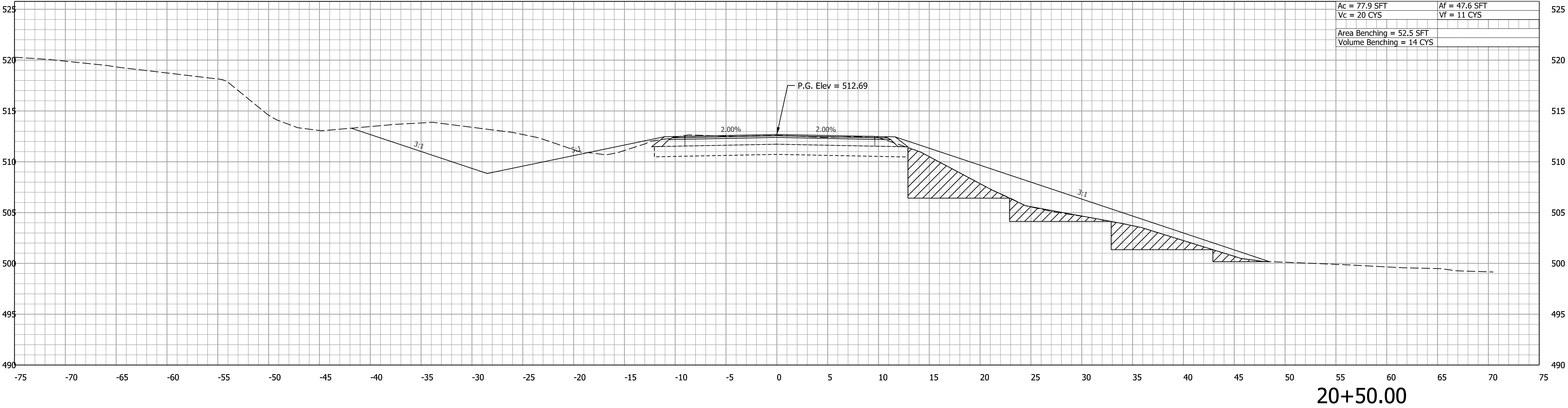
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DESIGN ENGINEER			
DESIGNED: RK	8/15/2025	DRAWN: BTS	8/15/2025
CHECKED: LNB	8/25/2025	CHECKED: RK	8/25/2025

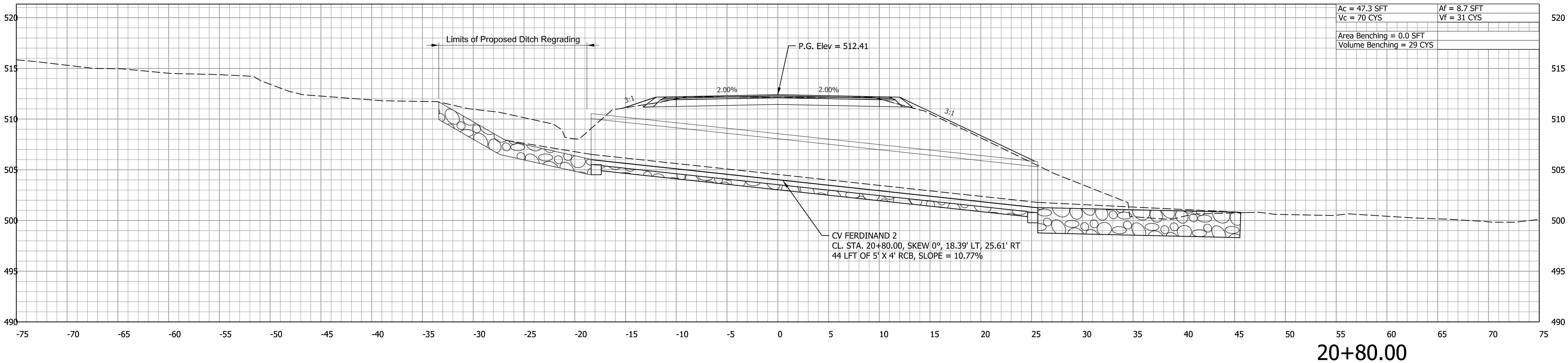
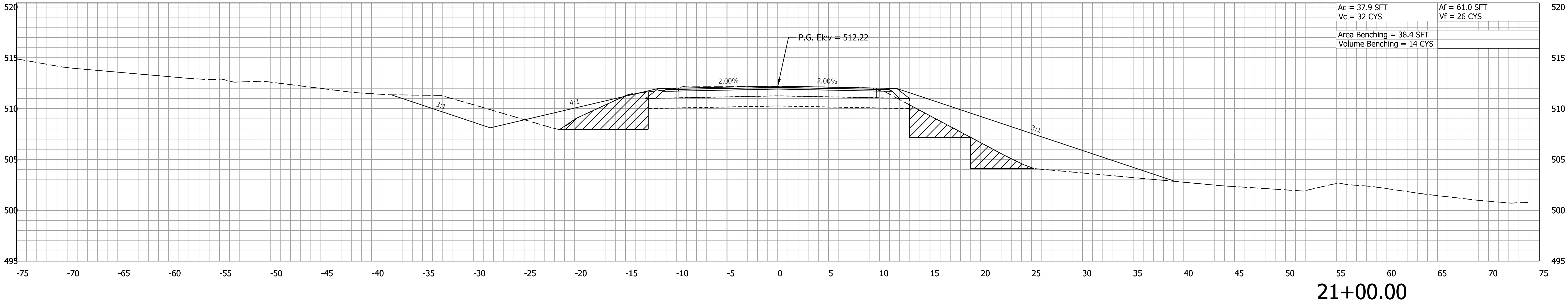
INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE		BRIDGE FILE	
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VERTICAL SCALE		DESIGNATION	
1" = 5'		CDC24009631045	
SURVEY BOOK		SHEETS	
N/A		XS5	of XS16
CONTRACT		PROJECT	
N/A		CDC24009631045	







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INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 5'	DESIGNATION CDC24009631045
SURVEY BOOK N/A	SHEETS XS7 of XS16
CONTRACT N/A	PROJECT CDC24009631045

Plot: 1/6/2026 5:49 PM

Plot: 1/6/2026 5:49 PM

Note:

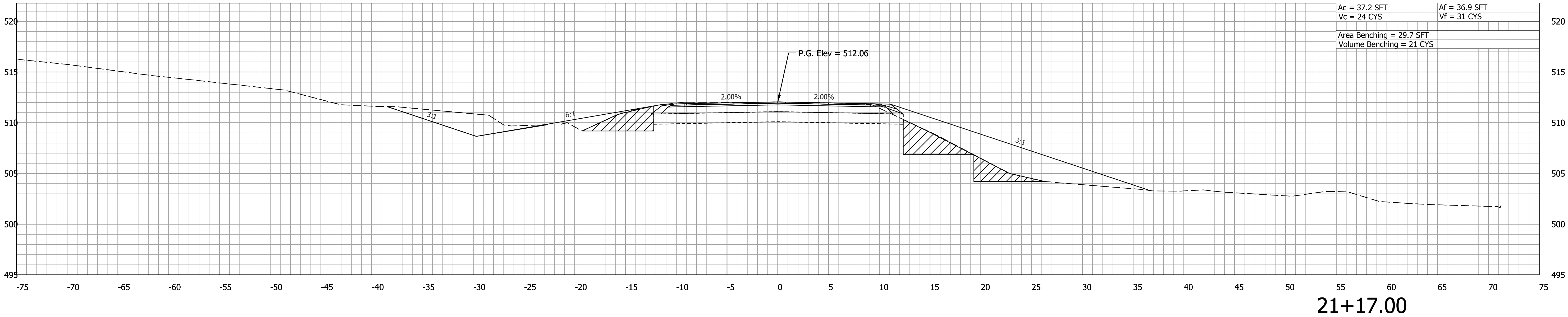
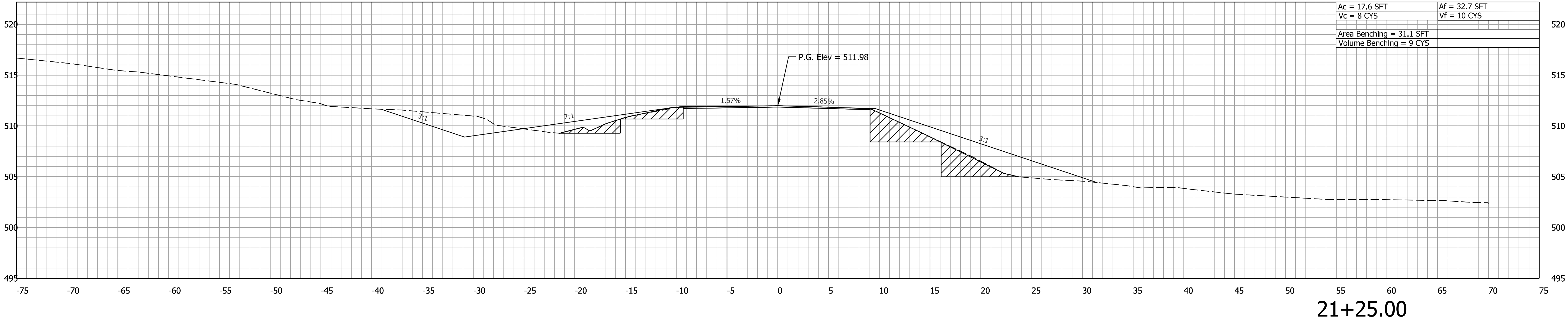
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INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE		BRIDGE FILE	
1" = 5'		N/A	
VERTICAL SCALE		DESIGNATION	
1" = 5'		CDC24009631045	
SURVEY BOOK		SHEETS	
N/A		XS8	XS16
CONTRACT		PROJECT	
N/A		CDC24009631045	



Plot: 1/6/2026 5:49 PM

Note:

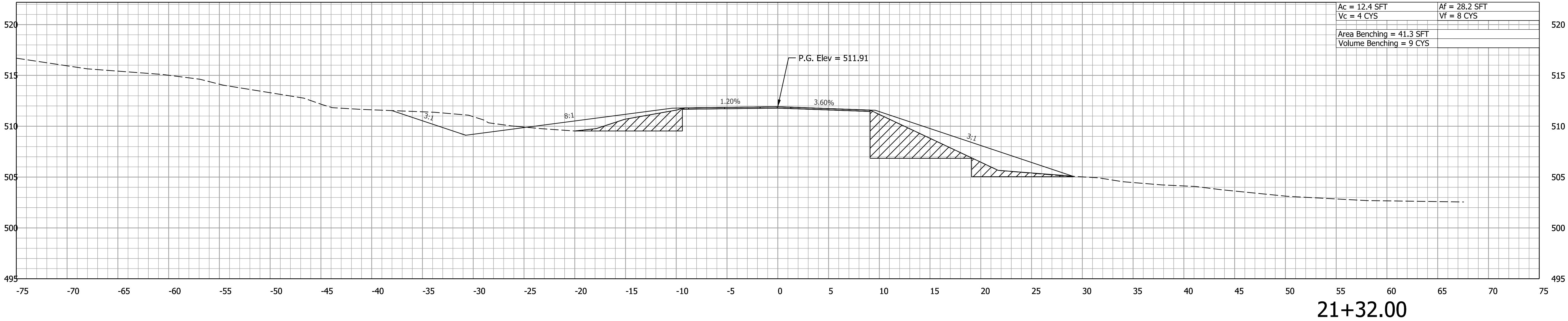
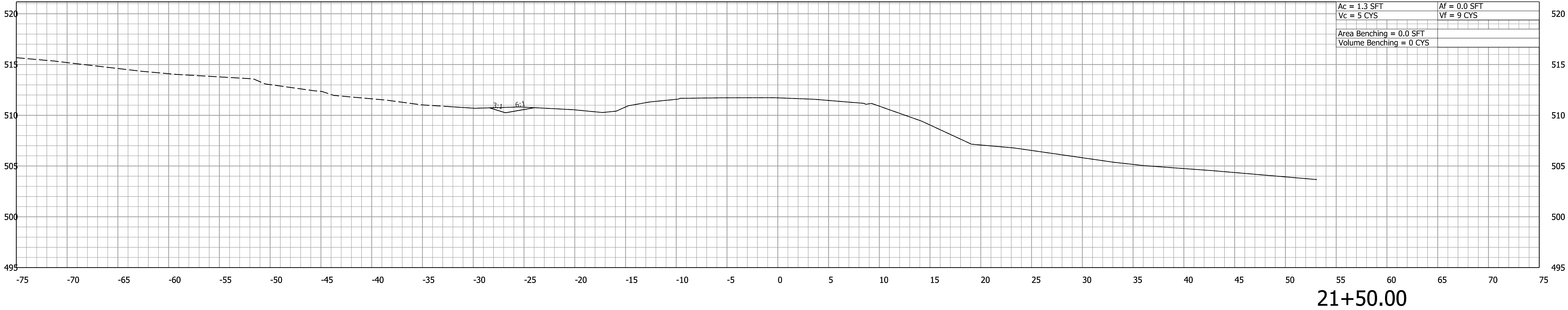
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INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "PR-ACCESS RD"

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1" = 5'		N/A	
VERTICAL SCALE		DESIGNATION	
1" = 5'		CDC24009631045	
SURVEY BOOK		SHEETS	
N/A		XS9	XS16
CONTRACT		PROJECT	
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Plot: 1/6/2026 5:49 PM

Note:

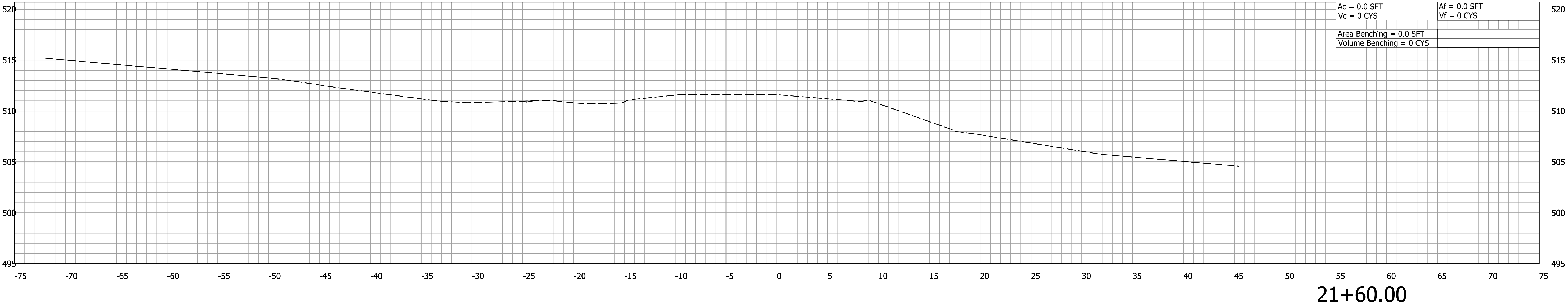
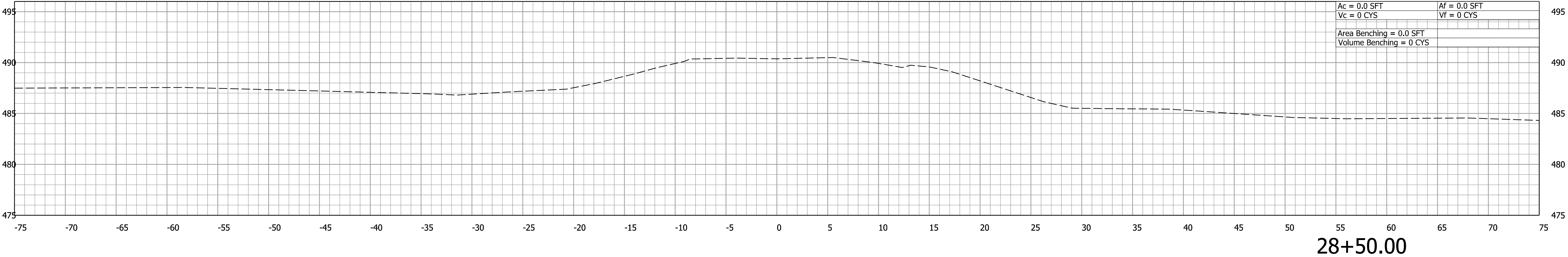
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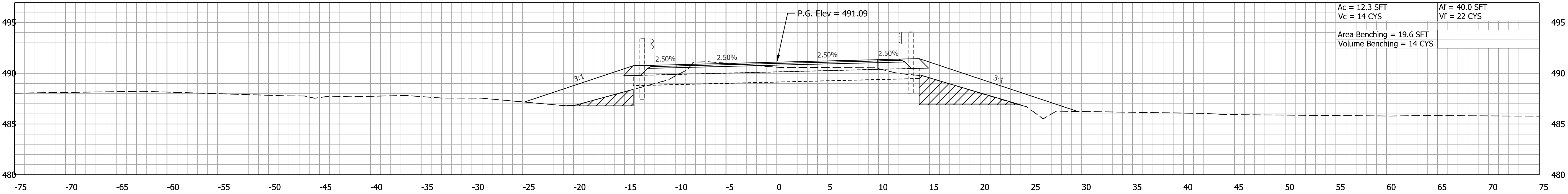
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CHECKED: LNB	8/25/2025	CHECKED: RK	8/25/2025		

INDIANA
DEPARTMENT OF NATURAL RESOURCES

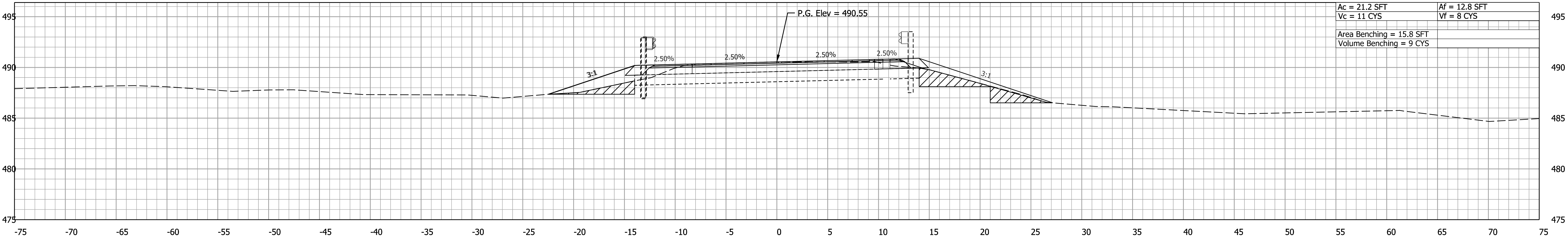
CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE		BRIDGE FILE	
1" = 5'		N/A	
VERTICAL SCALE		DESIGNATION	
1" = 5'		CDC24009631045	
SURVEY BOOK		SHEETS	
N/A		XS10	of XS16
CONTRACT		PROJECT	
N/A		CDC24009631045	

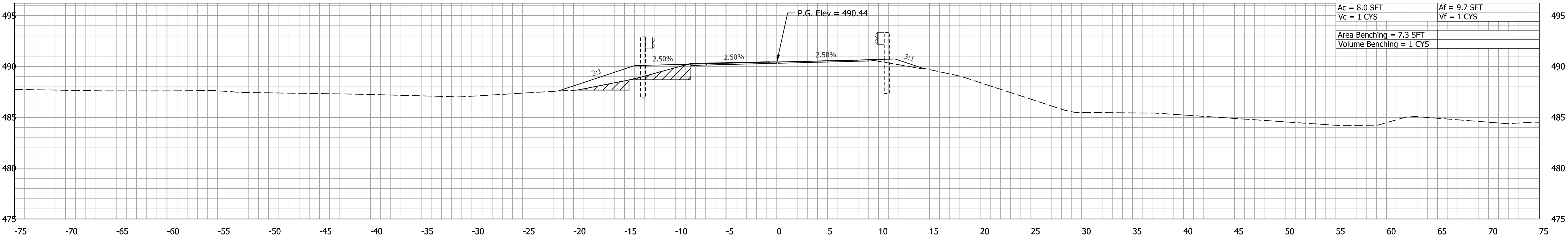




29+00.00



28+78.00



28+58.00

Note:				RECOMMENDED FOR APPROVAL		INDIANA DEPARTMENT OF NATURAL RESOURCES		HORIZONTAL SCALE		BRIDGE FILE	
1. All utilities information shall be considered QL-D unless otherwise indicated and is for information purposes only. The Contractor is responsible for locating and coordinating with the IDNR Property Manager in accordance with the plans and specifications for relocating them to avoid conflict with the proposed construction.				DESIGN ENGINEER				1" = 5'		N/A	
				DESIGNED: RK		DRAWN: BTS		VERTICAL SCALE		DESIGNATION	
				CHECKED: LNB		CHECKED: RK		1" = 5'		CDC24009631045	
								SURVEY BOOK		SHEETS	
								N/A		XS11 of XS16	
								CONTRACT		PROJECT	
								N/A		CDC24009631045	

Plot: 1/6/2026 5:50 PM

Note:

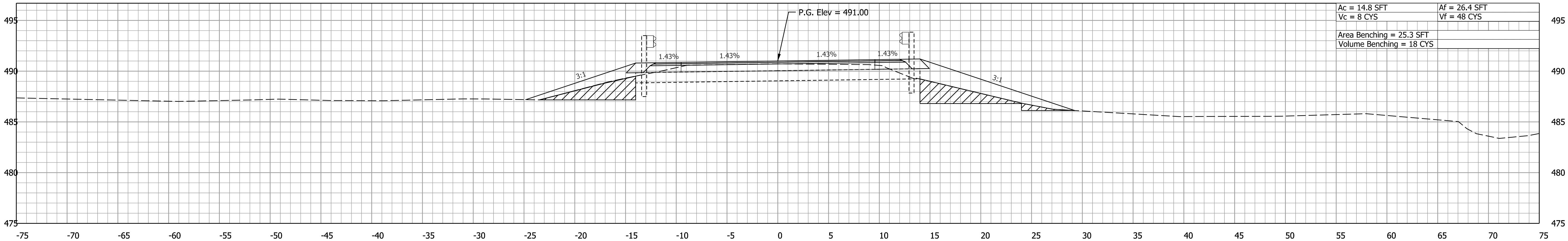
1. All utilities information shall be considered QL-D unless otherwise indicated and is for information purposes only. The Contractor is responsible for locating and coordinating with the IDNR Property Manager in accordance with the plans and specifications for relocating them to avoid conflict with the proposed construction.

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		\$SIG_DT\$ DATE	
DESIGNED: RK	8/15/2025	DRAWN: BTS	8/15/2025		
CHECKED: LNB	8/25/2025	CHECKED: RK	8/25/2025		

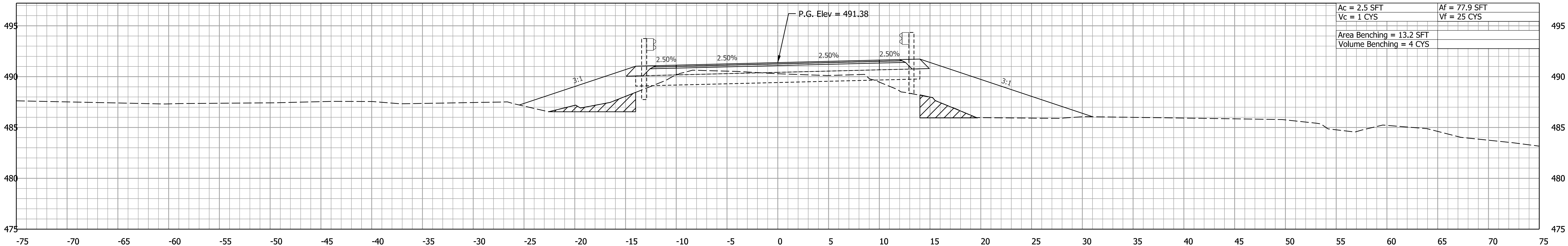
INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "PR-ACCESS RD"

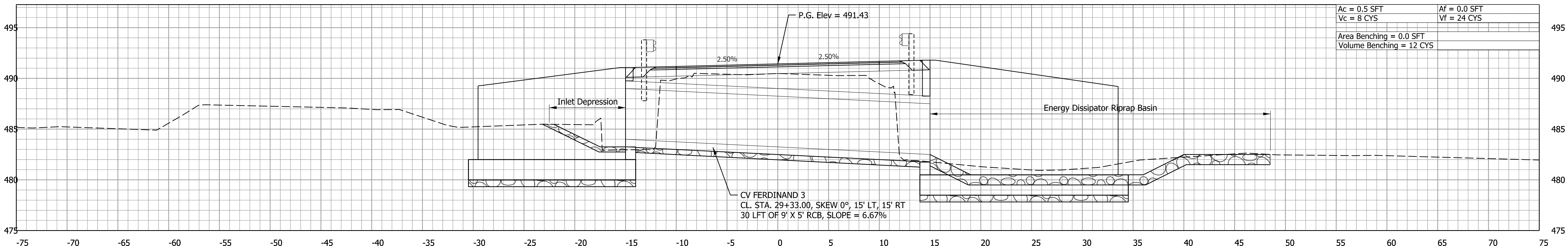
HORIZONTAL SCALE		BRIDGE FILE	
1" = 5'		N/A	
VERTICAL SCALE		DESIGNATION	
1" = 5'		CDC24009631045	
SURVEY BOOK		SHEETS	
N/A		XS12	of XS16
CONTRACT		PROJECT	
N/A		CDC24009631045	



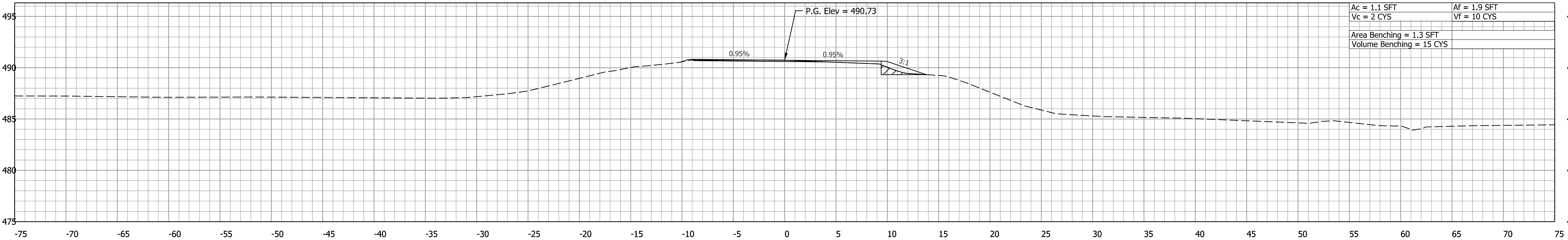
29+75.00



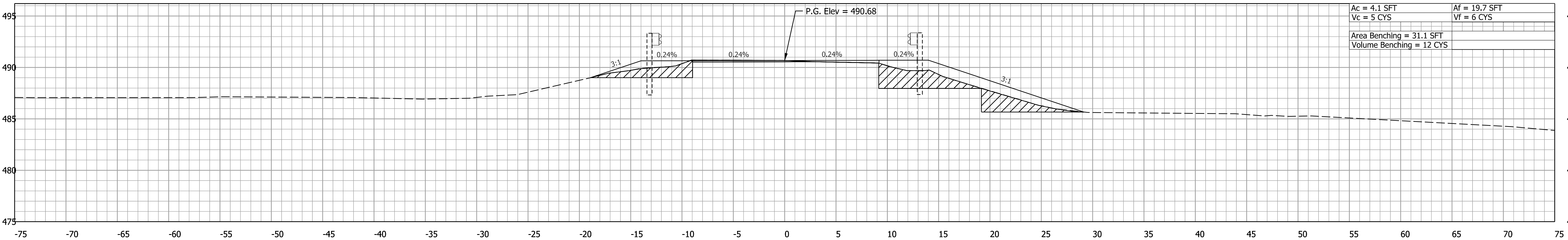
29+50.00



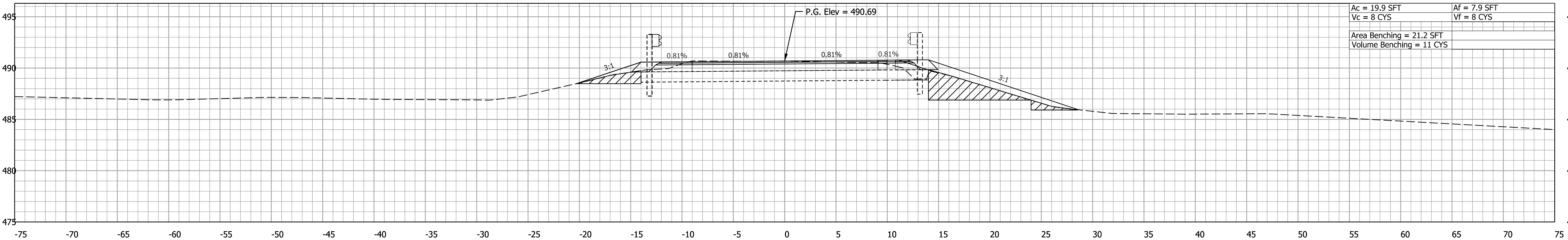
29+33.00



30+25.00



30+00.00



29+88.00

Note:

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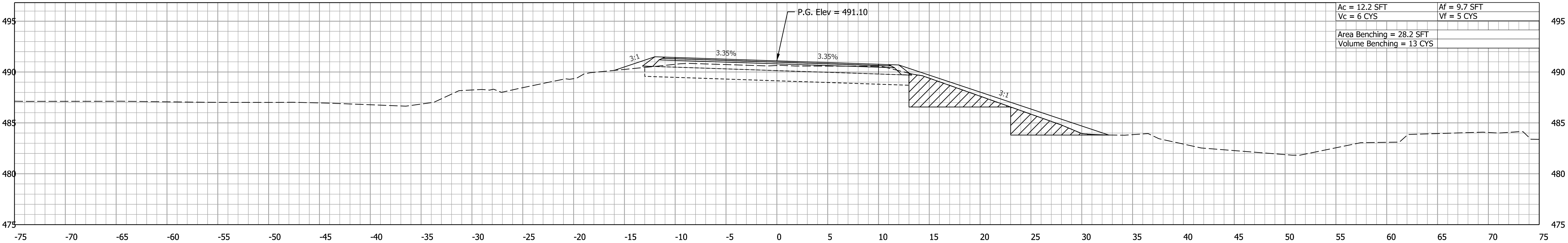
RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
\$SIG_DT\$
DATE

DESIGNED: RK 8/15/2025
DRAWN: BTS 8/15/2025
CHECKED: LNB 8/25/2025
CHECKED: RK 8/25/2025

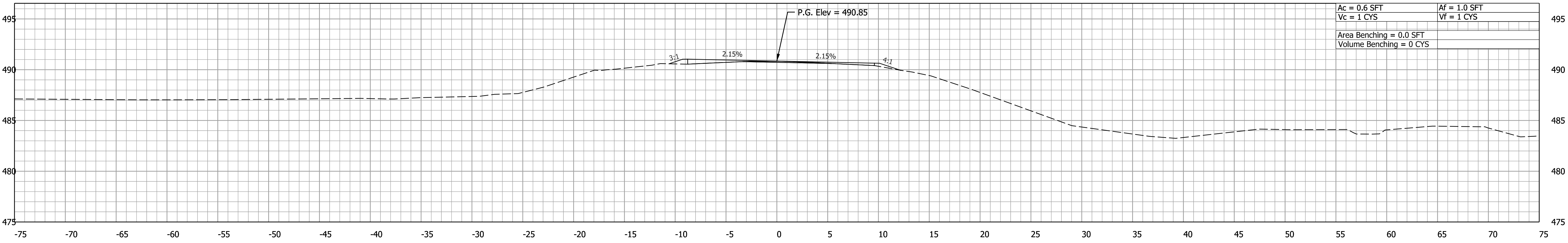
INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	N/A
VERTICAL SCALE	DESIGNATION
1" = 5'	CDC24009631045
SURVEY BOOK	SHEETS
N/A	XS13 of XS16
CONTRACT	PROJECT
N/A	CDC24009631045



30+75.00



30+50.00

Note:

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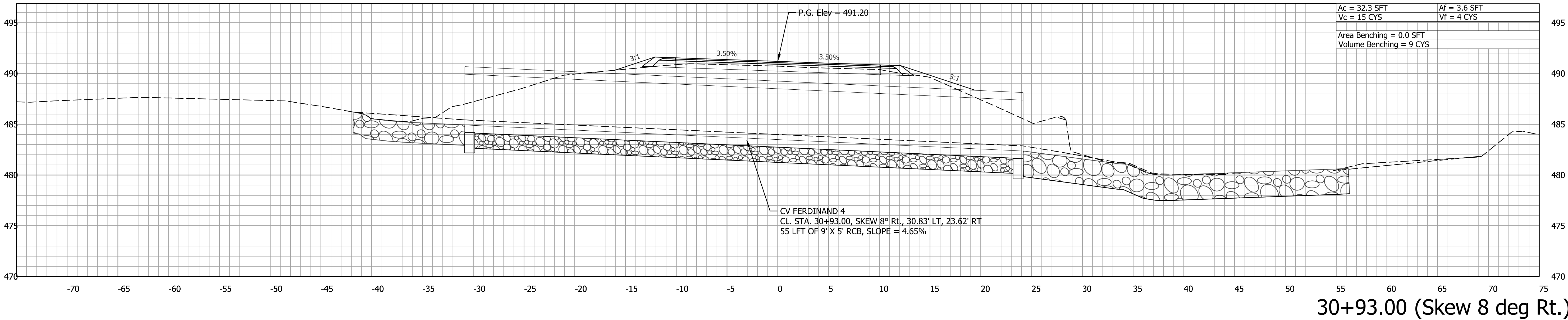
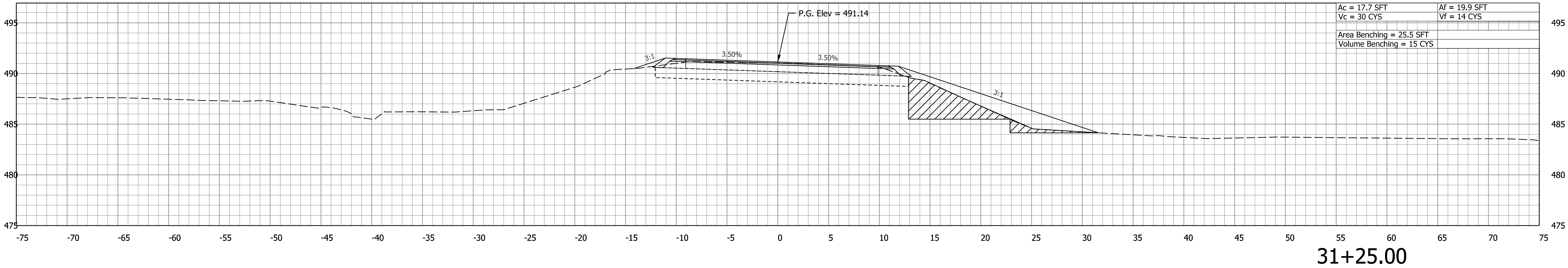
RECOMMENDED FOR APPROVAL _____ \$SIG_DT\$
DESIGN ENGINEER DATE

DESIGNED: RK 8/15/2025 DRAWN: BTS 8/15/2025
CHECKED: LNB 8/25/2025 CHECKED: RK 8/25/2025

INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE	BRIDGE FILE		
1" = 5'	N/A		
VERTICAL SCALE	DESIGNATION		
1" = 5'	CDC24009631045		
SURVEY BOOK	SHEETS		
N/A	XS14	of	XS16
CONTRACT	PROJECT		
N/A	CDC24009631045		



Note:

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RECOMMENDED FOR APPROVAL _____ \$SIG_DT\$
DESIGN ENGINEER DATE

DESIGNED: RK 8/15/2025 DRAWN: BTS 8/15/2025

CHECKED: LNB 8/25/2025 CHECKED: RK 8/25/2025

INDIANA
DEPARTMENT OF NATURAL RESOURCES

CROSS SECTIONS
LINE "PR-ACCESS RD"

HORIZONTAL SCALE

1" = 5'

VERTICAL SCALE

1" = 5'

SURVEY BOOK

N/A

CONTRACT

N/A

BRIDGE FILE

N/A

DESIGNATION

CDC24009631045

SHEETS

XS15

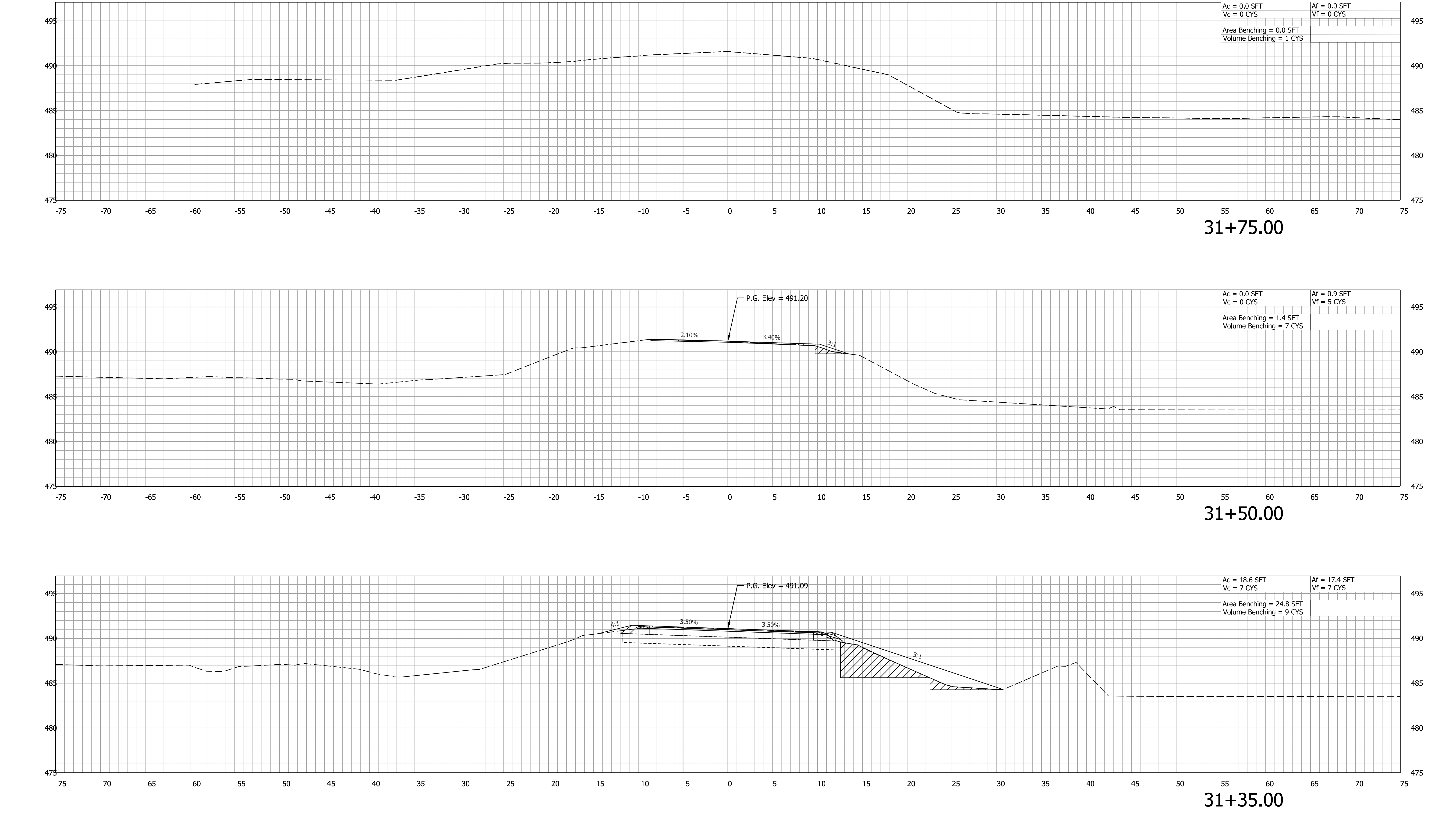
of

XS16

PROJECT

CDC24009631045

Plot: 1/6/2026 5:50 PM



Note:

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RECOMMENDED FOR APPROVAL			DESIGN ENGINEER	DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES
DESIGNED: RK	8/15/2025	DRAWN: BTS	8/15/2025	CROSS SECTIONS LINE "PR-ACCESS RD"	
CHECKED: LNB	8/25/2025	CHECKED: RK	8/25/2025		

HORIZONTAL SCALE	BRIDGE FILE	
1" = 5'	N/A	
VERTICAL SCALE	DESIGNATION	
1" = 5'	CDC24009631045	

SURVEY BOOK	SHEETS		
N/A	XS16	of	XS16
CONTRACT	PROJECT		
N/A	CDC24009631045		