

INDIANA DEPARTMENT OF NATURAL RESOURCES

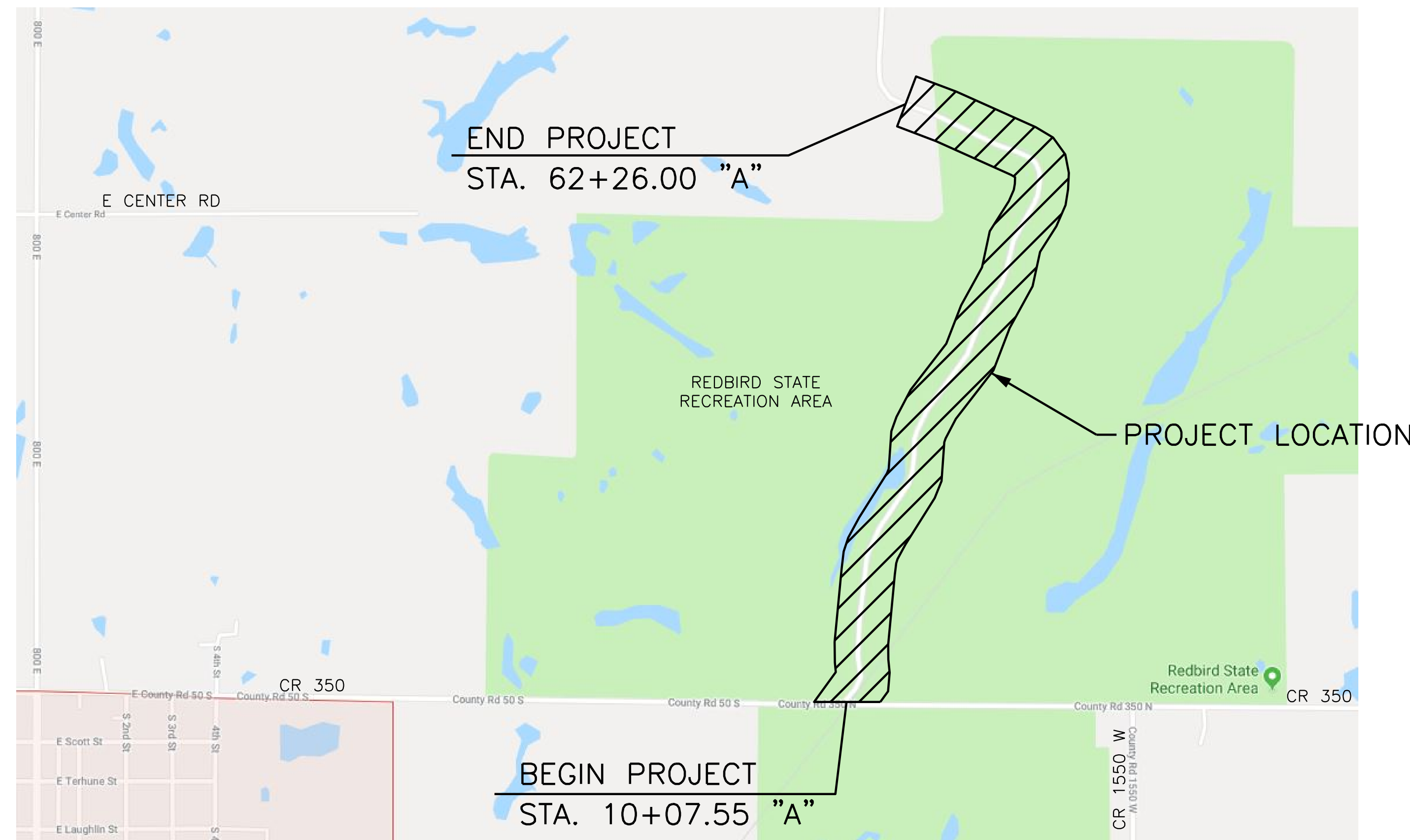
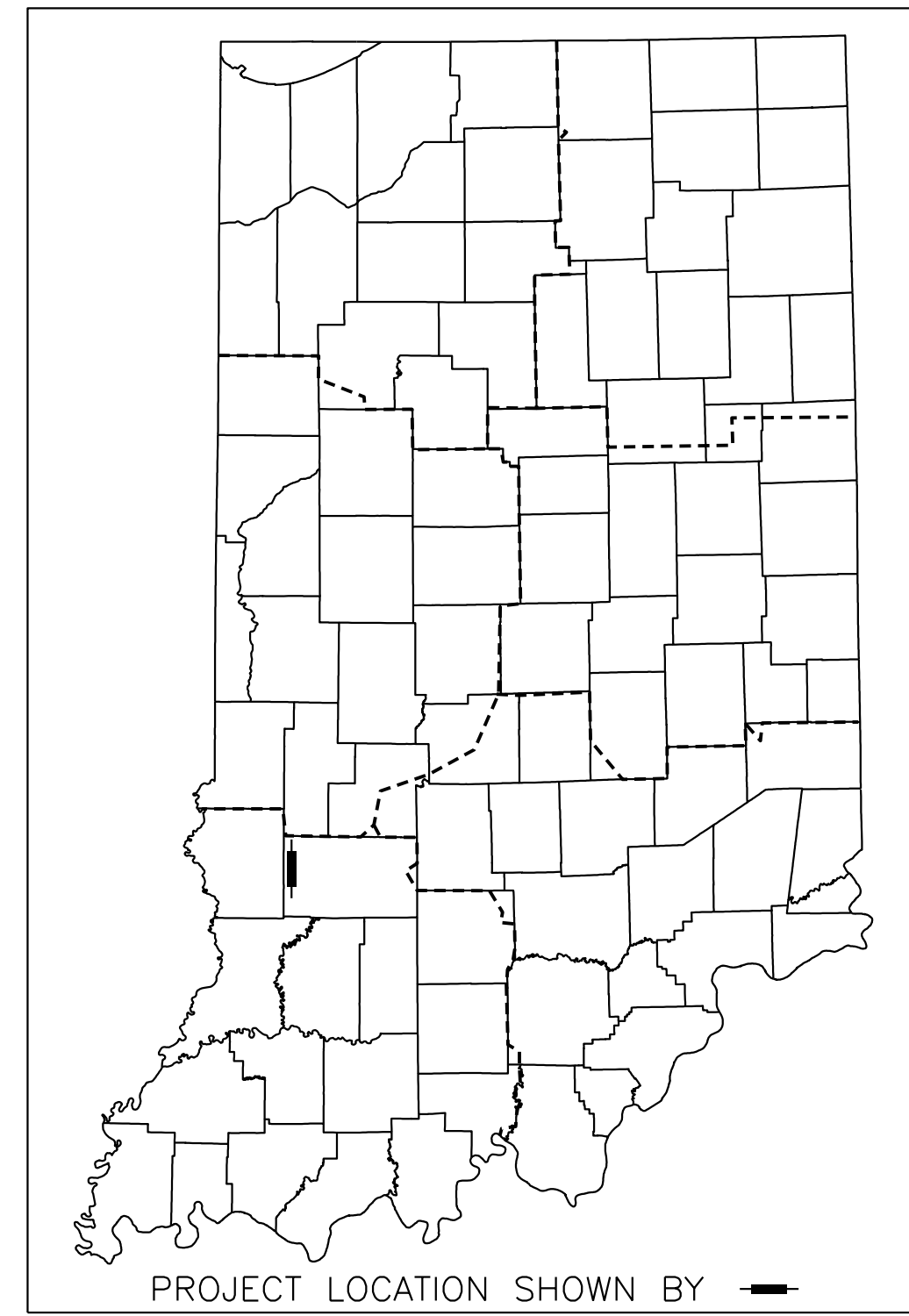
REDBIRD SRA

PRIMARY ACCESS ROAD – PHASE 1 PROJECT NO. ENG1901583164

PROJECT DESCRIPTION
Construction of a new 24 foot paved primary access road from CR 350N to Whitetail shelter house with paved parking areas along the roadway. This project is located in Redbird State Forest, Greene County, Indiana.

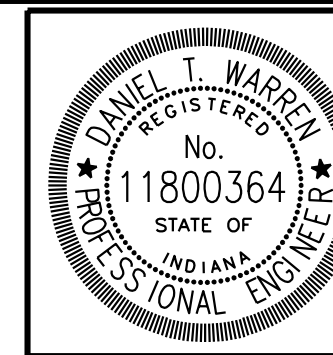
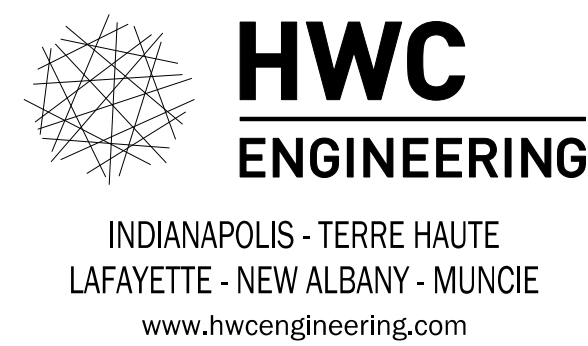
PROJECT LENGTH: 1.006 MILES

PROJECT LOCATION LATITUDE/LONGITUDE:
LATITUDE: 39°04'50" N
LONGITUDE: 87°14'10" W



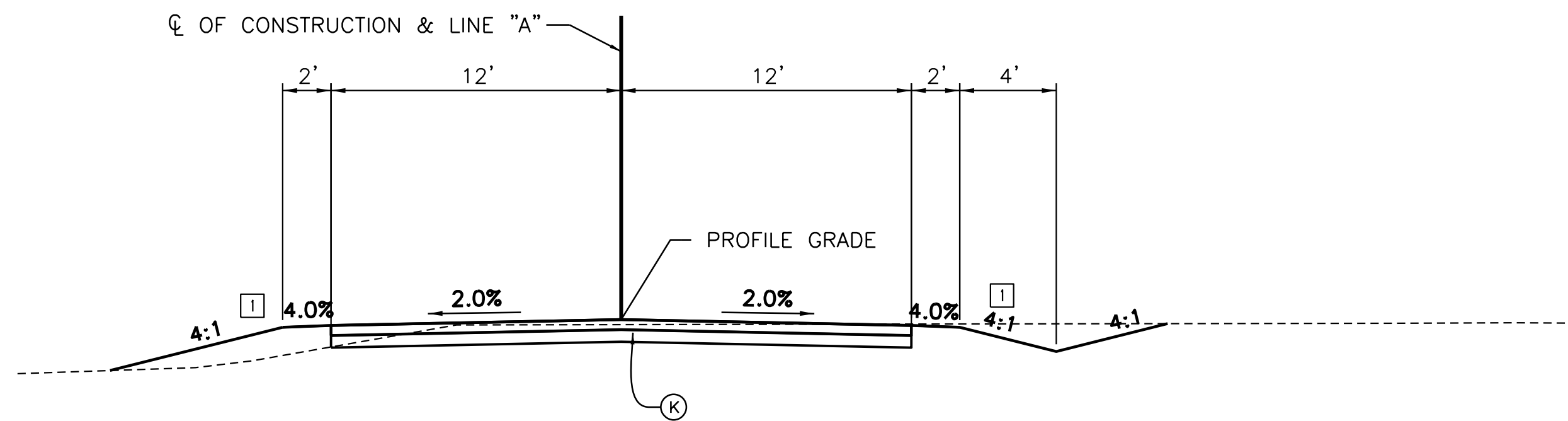
INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2018
TO BE USED WITH THESE PLANS

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 11/14/2018 REVISION 3.0
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 03/27/2018 NGD:tbl



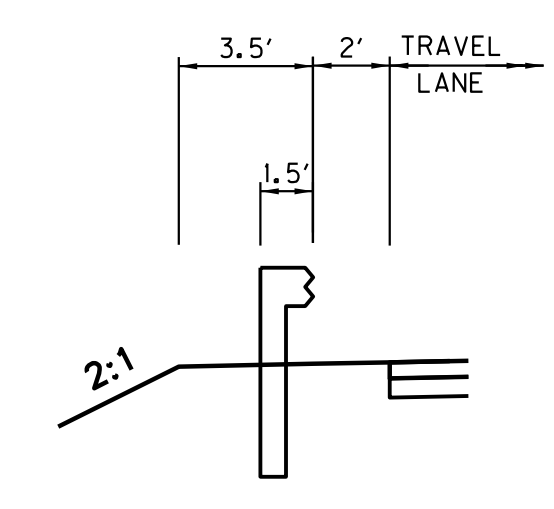
PLANS PREPARED BY:	HWC ENGINEERING	812-752-0914 PHONE NUMBER
CERTIFIED BY:		11-14-18 DATE

BRIDGE FILE	
DESIGNATION	
SHEETS	
1	of 71
PROJECT	
ENG1901583164	

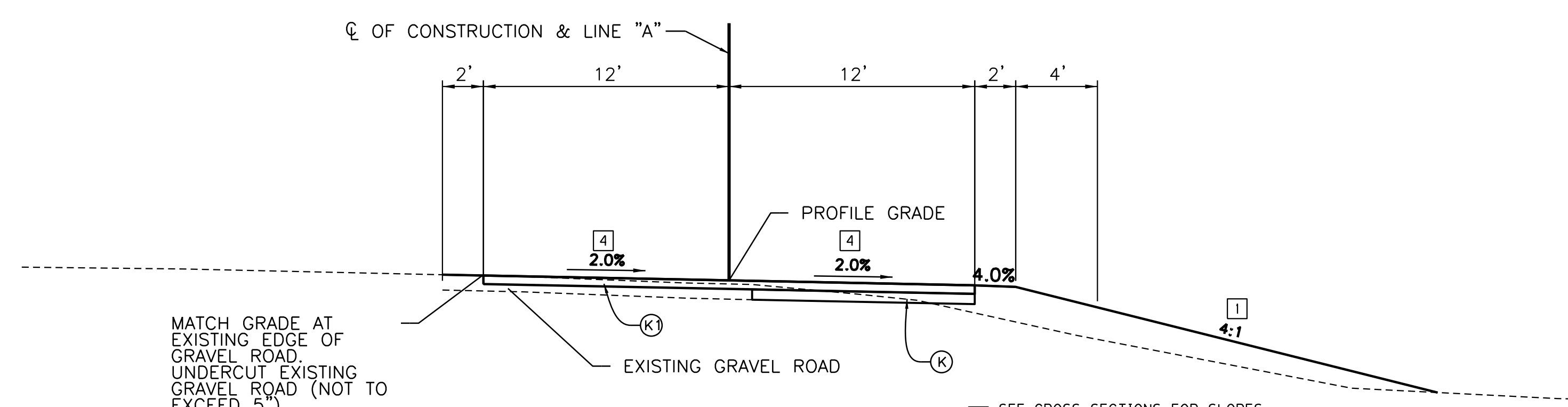


LINE "A"
FULL-DEPTH SECTION
 STA. 10+07.55 TO STA. 14+20.00
 STA. 60+26.00 TO STA. 62+26.00

1 SEE CROSS SECTIONS FOR SLOPES OUTSIDE OF SHOULDER LIMITS

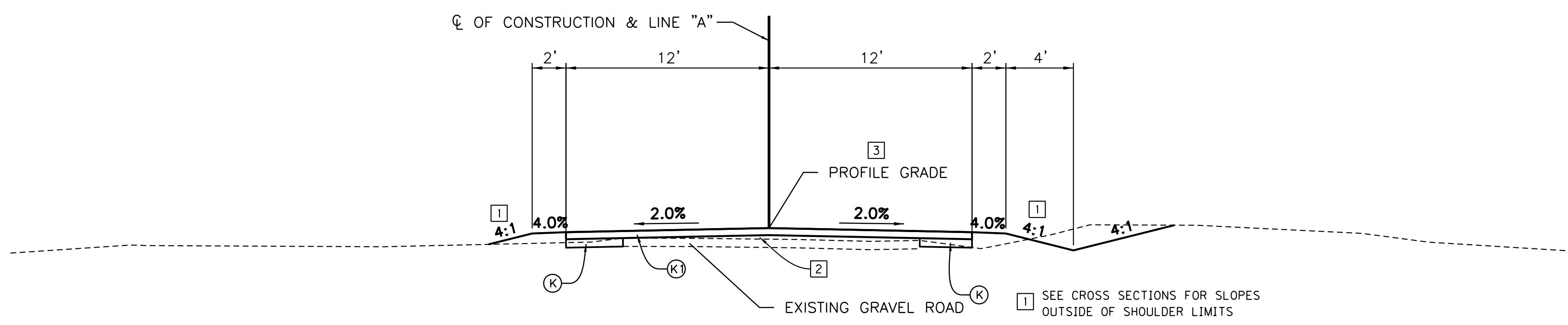


GUARDRAIL DETAIL
 SEE PLANS FOR LOCATIONS



LINE "A"
AT GRADE SECTION
 STA. 26+00.00 TO STA. 29+00.00
 STA. 39+50.00 TO STA. 46+00.00
 STA. 56+50.00 TO STA. 60+26.00

1 SEE CROSS SECTIONS FOR SLOPES OUTSIDE OF SHOULDER LIMITS
 4 SEE CROSS SECTIONS FOR PAVEMENT CROSS SLOPES



LINE "A"
WIDENING SECTION
 STA. 14+20.00 TO STA. 26+00.00
 STA. 29+00.00 TO STA. 39+50.00
 STA. 46+00.00 TO STA. 56+50.00

1 SEE CROSS SECTIONS FOR SLOPES OUTSIDE OF SHOULDER LIMITS
 2 VARIABLE DEPTH STONE LEVELING COURSE SEE CROSS SECTIONS WIDTHS
 3 PROFILE GRADE DERIVED FROM MINIMUM VERTICAL ELEVATION NEEDED TO HAVE A 5' OVERLAY AND ESTABLISH NORMAL CROWN, UNLESS OTHERWISE NOTED

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 NGD:tbl

(K) FULL DEPTH HMA PAVEMENT 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON 6" COMPACTED AGGREGATE #53	(K1) HMA PAVEMENT OVERLAY 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON VARIABLE DEPTH COMPACTED AGGREGATE #53	(50) NO CHANGE REQUIRED TO EXISTING SIGN AND SUPPORTS	(59) SIGN, REMOVE & RESET
(54) LINE, PAINT, SOLID, WHITE, 4 IN.	(56) LINE, PAINT, SOLID, BLUE, 4 IN.	SLOPE PROTECTION (SEE GENERAL NOTES)	

	RECOMMENDED FOR APPROVAL	 DESIGN ENGINEER 11-14-18 DATE
	DESIGNED: DTW	DRAWN: KAM
CHECKED: DPL	CHECKED: DTW	

INDIANA DEPARTMENT OF NATURAL RESOURCES	
TYPICAL SECTIONS	

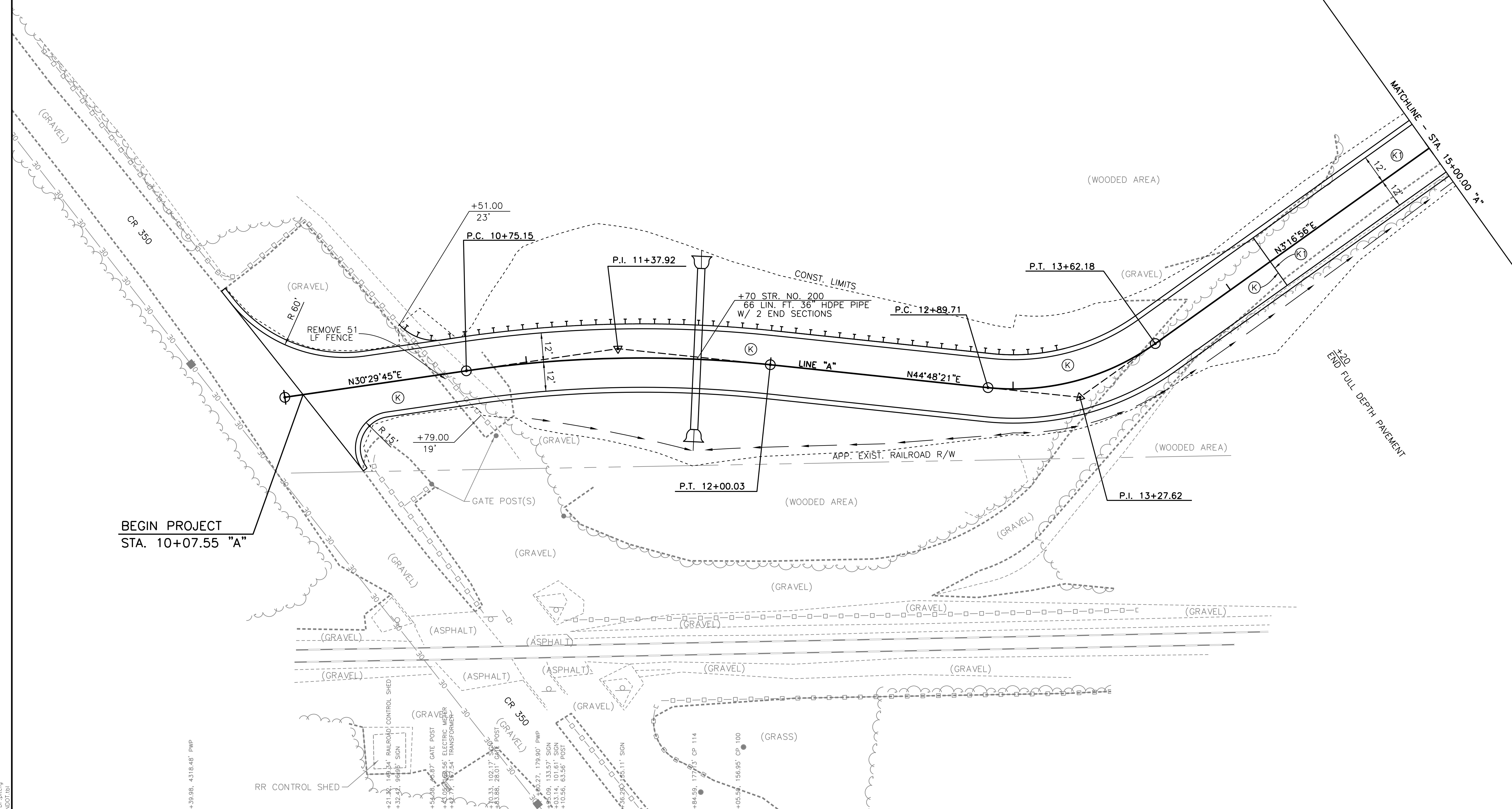
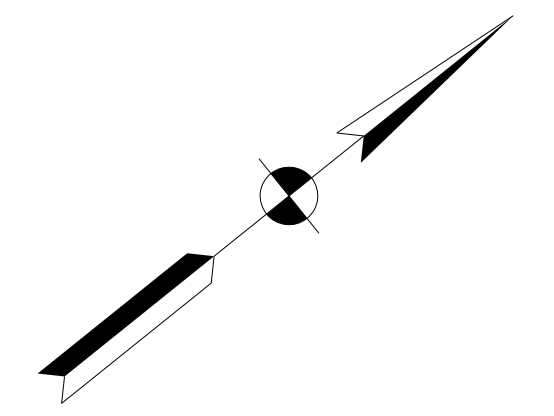
HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
3	of 71
CONTRACT	PROJECT
	ENG1901583164

10+00

P.I. = 11+37.92
N = 1393734.39
E = 2908614.01
DELTA = 14°18'36" RT.
D = 11°27'33"
R = 500.00'
T = 62.77'
L = 124.88'
E = 3.92'
e=N.C.

P.I. = 13+27.62
N = 1393869.45
E = 2908748.15
DELTA = 41°31'25" LT.
D = 57°17'45"
R = 100.00'
T = 37.91'
L = 72.47'
E = 6.94'
e=N.C.

15+00

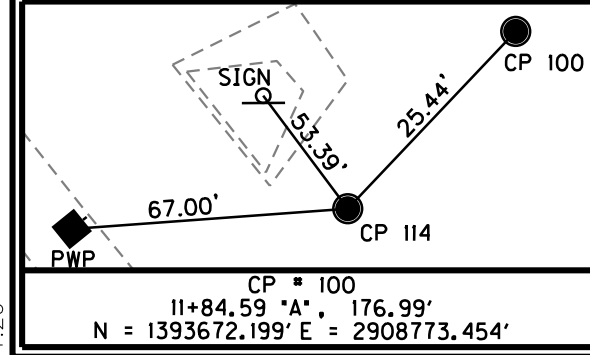


BEGIN PROJECT
STA. 10+07.55 "A"

MATCHLINE - STA. 15+00.00 "A"

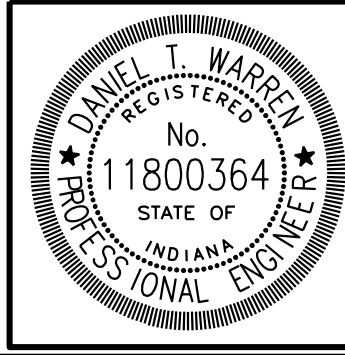
+20
END
FULL DEPTH PAVEMENT

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11/16/18



- (K) FULL DEPTH HMA PAVEMENT
165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
6" COMPACTED AGGREGATE #53
- (K) HMA PAVEMENT OVERLAY
165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
VARIABLE DEPTH COMPACTED AGGREGATE #53
- (34) LINE, PAINT, SOLID, WHITE, 4 IN.
- (36) LINE, PAINT, SOLID, BLUE, 4 IN.
- (50) NO CHANGE REQUIRED TO EXISTING SIGN AND SUPPORTS
- (59) SIGN, REMOVE & RESET

▨ SLOPE PROTECTION (SEE GENERAL NOTES)



RECOMMENDED FOR APPROVAL: *D. Warren*
DESIGN ENGINEER 11-14-18 DATE

DESIGNED: DTW DRAWN: KAM
CHECKED: DPL CHECKED: DTW

INDIANA
DEPARTMENT OF NATURAL RESOURCES

PLAN SHEET
STA. 10+00.00 TO STA. 15+00.00 "A"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION N/A
SURVEY BOOK	SHEETS
CONTRACT	4 of 71
	PROJECT ENG1901583164

P.V.I. 12+00.00 "A"
 ELEV. 602.42
 250' V.C.

BEGIN PROJECT
 STA. 10+07.55 "A"
 ELEV. 604.34

262.5 LF OF W BEAM GUARDRAIL LEFT @ 6'-3" SPACING

GUARDRAIL
 TREATMENT
 TYPE 1

+20.00
 5" OVERLAY

-1.000%

PROPOSED GRADE LINE "A"

+00.00
 600.90

V' DITCH RT @ S=6.93%

STR. NO. 200
 I.E. = 595.24

+70.00
 596.05

0.86%

EXISTING GROUND

+50.00
 596.74

1.65%

+00.00
 597.57

-3.500%

V' DITCH RT @ S=3.56%

+00.00
 590.45

66 TONS REVETMENT RIPRAP
 87 SYS GEOTEXTILES

46 SYS EROSION CONTROL
 BLANKET FOR DITCHES

474 TONS REVETMENT RIPRAP
 64 SYS GEOTEXTILES

EARTHWORK SUMMARY

LINE	COMMON EXCAVATION (CYD)	FILL (+25%) (CYD)	BORROW (CYD)
"A"	1,128	8,067	6,939
BENCHING QTY'S	728	910	182

604.4

603.7
603.92

599.9
603.39

594.5
602.64

595.3
601.64

595.8
600.39

596.7
598.89

596.6
597.17

594.7
595.45

592.6
593.54

590.6
591.50

10+00

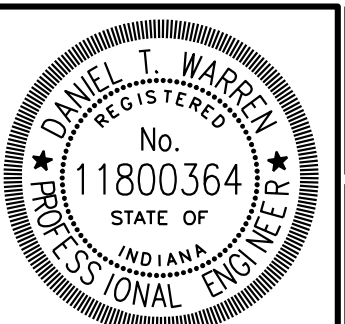
11+00

12+00

13+00

14+00

15+00



RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER
 11-14-18 DATE

DESIGNED: DTW DRAWN: KAM
 CHECKED: DPL CHECKED: DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES

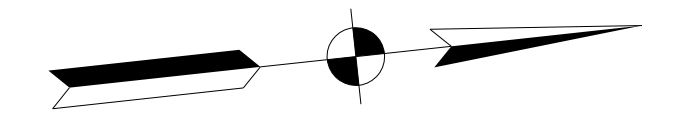
PROFILE SHEET
 STA. 10+00.00 TO STA. 15+00.00 "A"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 2'	DESIGNATION N/A
SURVEY BOOK	SHEETS 5 of 71
CONTRACT	PROJECT ENG1901583164

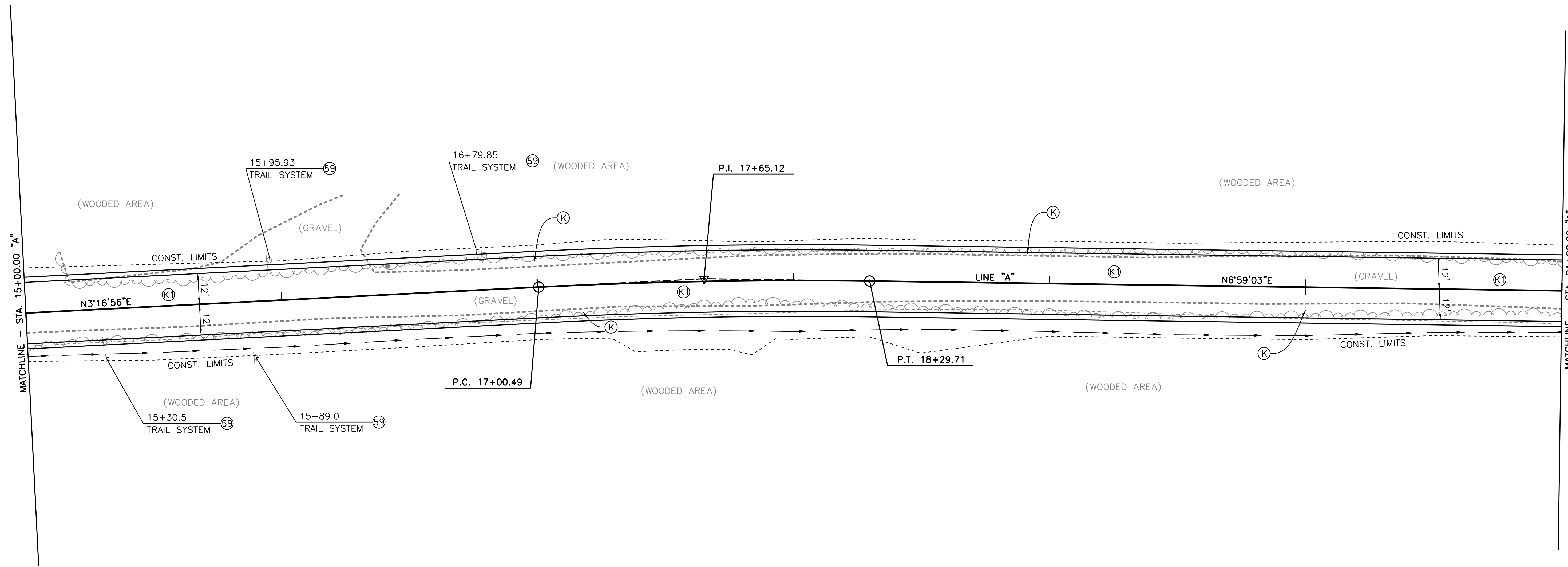
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 NGD:DLB

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 E = 2908773.39
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 D = 2'51'53"
 R = 2000.00'
 T = 64.63'
 L = 129.22'
 E = 1.04'
 e=N.C.

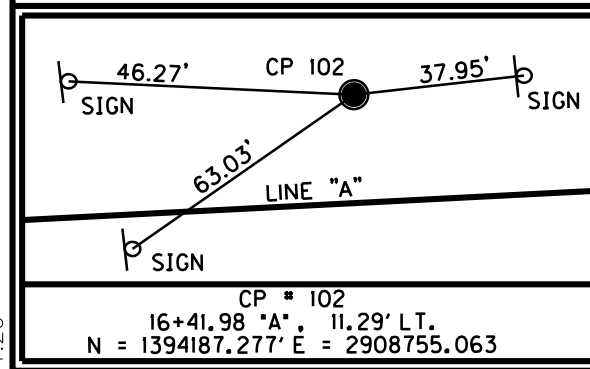
20+00



15+00



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 NGD:TLB

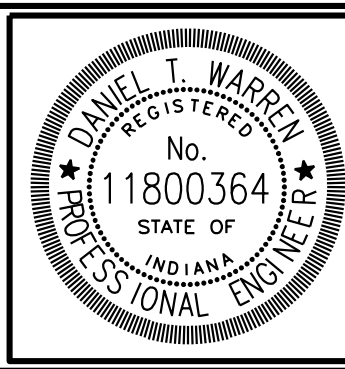


(K) FULL DEPTH HMA PAVEMENT
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 6" COMPACTED AGGREGATE #53

(K1) HMA PAVEMENT OVERLAY
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 VARIABLE DEPTH COMPACTED AGGREGATE #53

(34) LINE, PAINT, SOLID, WHITE, 4 IN.
 (36) LINE, PAINT, SOLID, BLUE, 4 IN.

(50) NO CHANGE REQUIRED TO EXISTING SIGN AND SUPPORTS
 (59) SIGN, REMOVE & RESET



RECOMMENDED FOR APPROVAL: *D. Warren*
 DESIGN ENGINEER DATE: 11-14-18

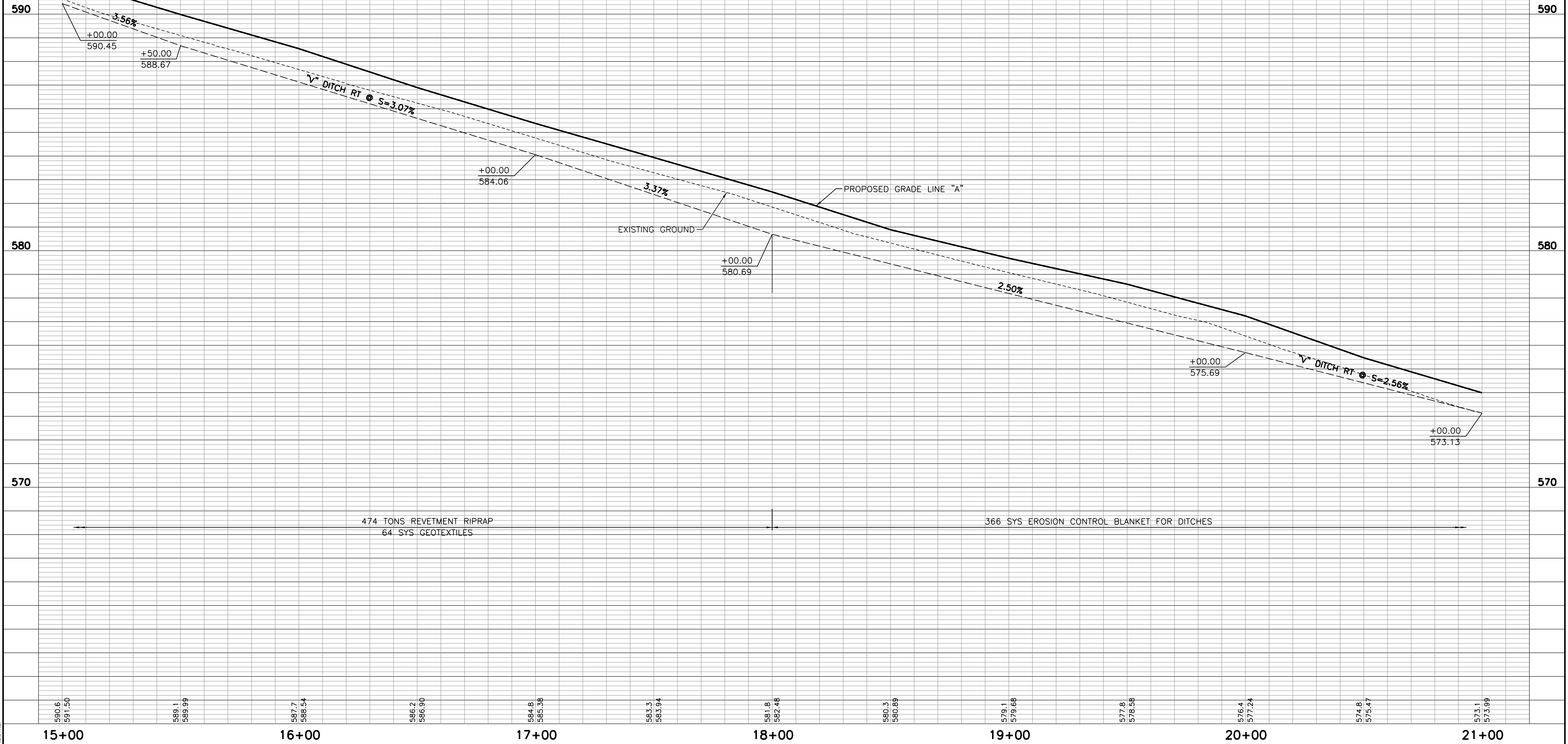
DESIGNED: DTW DRAWN: KAM
 CHECKED: DPL CHECKED: DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES

PLAN SHEET
 STA. 15+00.00 TO STA. 21+00.00 "A"

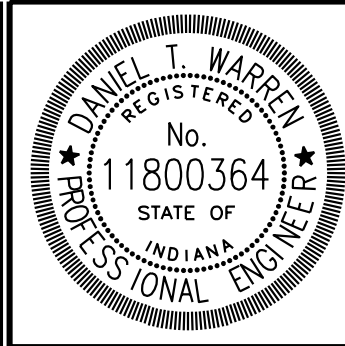
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
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5" OVERLAY



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590.6 591.50	589.1 589.99	587.7 588.54	586.2 586.90	584.8 585.38	583.3 583.94	581.8 582.48	580.3 580.89	579.1 579.68	577.8 578.58	576.4 577.24	574.8 575.47	573.1 573.99
15+00		16+00		17+00		18+00		19+00		20+00		21+00



RECOMMENDED FOR APPROVAL *D. Warren* 11-14-18
 DESIGN ENGINEER DATE

DESIGNED: DTW DRAWN: KAM
 CHECKED: DPL CHECKED: DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES

PROFILE SHEET
 STA. 15+00.00 TO STA. 21+00.00 "A"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 2'	DESIGNATION N/A
SURVEY BOOK	SHEETS 7 of 71
CONTRACT	PROJECT ENG1901583164

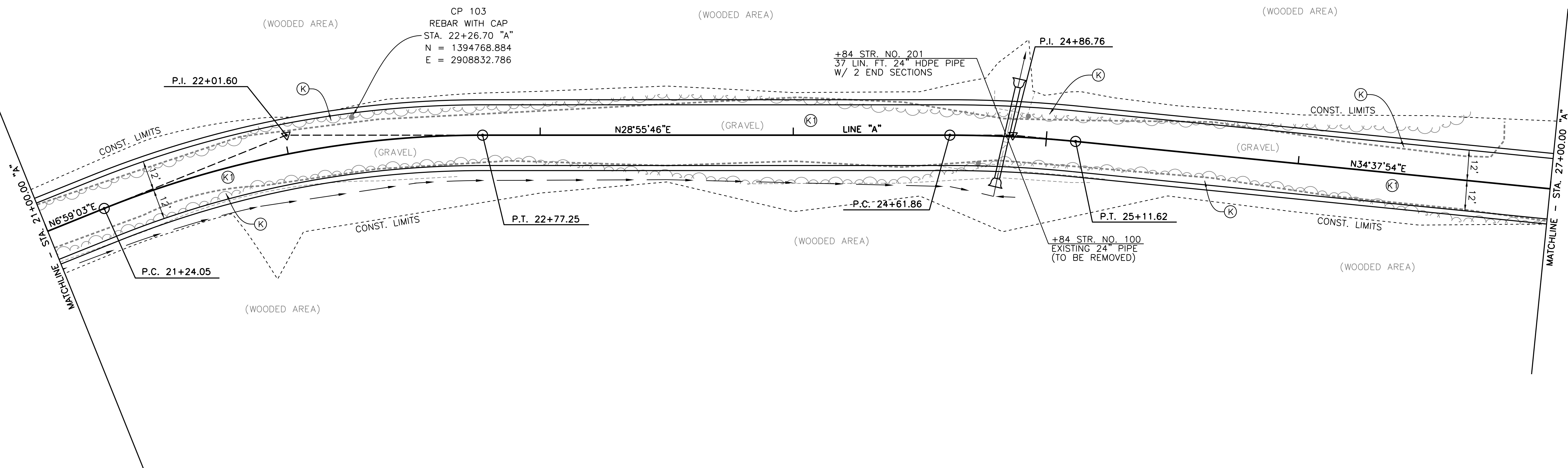
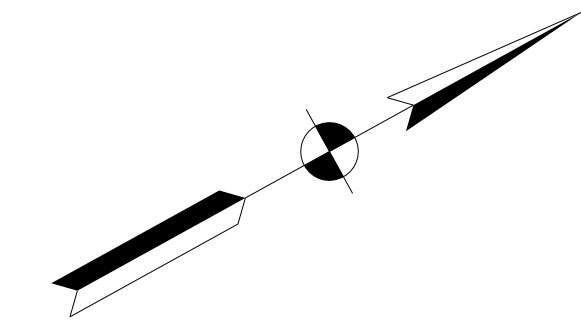
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 N = 1394742.86
 E = 2908826.47
 DELTA = 21°56'43" RT.
 D = 14'19'26"
 R = 400.00'
 T = 77.55'
 L = 153.21'
 E = 7.45'
 e=N.C.

+26.70, 10.33' CP 103

P.I. = 24+86.76
 N = 1394994.10
 E = 2908965.33
 DELTA = 5°42'08" RT.
 D = 11'27'33"
 R = 500.00'
 T = 24.90'
 L = 49.76'
 E = 0.62'
 e=N.C.

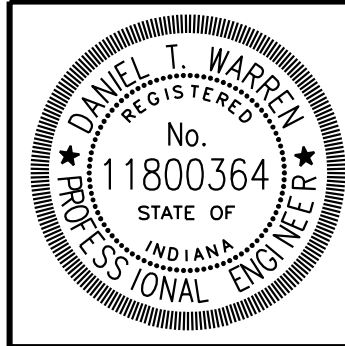
+92.39, 8.41' POST

25+00



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- (K) FULL DEPTH HMA PAVEMENT
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 6" COMPACTED AGGREGATE #53
- (K1) HMA PAVEMENT OVERLAY
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 VARIABLE DEPTH COMPACTED AGGREGATE #53
- (50) NO CHANGE
 REQUIRED TO
 EXISTING SIGN
 AND SUPPORTS
- (59) SIGN, REMOVE
 & RESET
- (54) LINE, PAINT, SOLID, WHITE, 4 IN.
- (56) LINE, PAINT, SOLID, BLUE, 4 IN.
- ▨ SLOPE PROTECTION (SEE GENERAL NOTES)

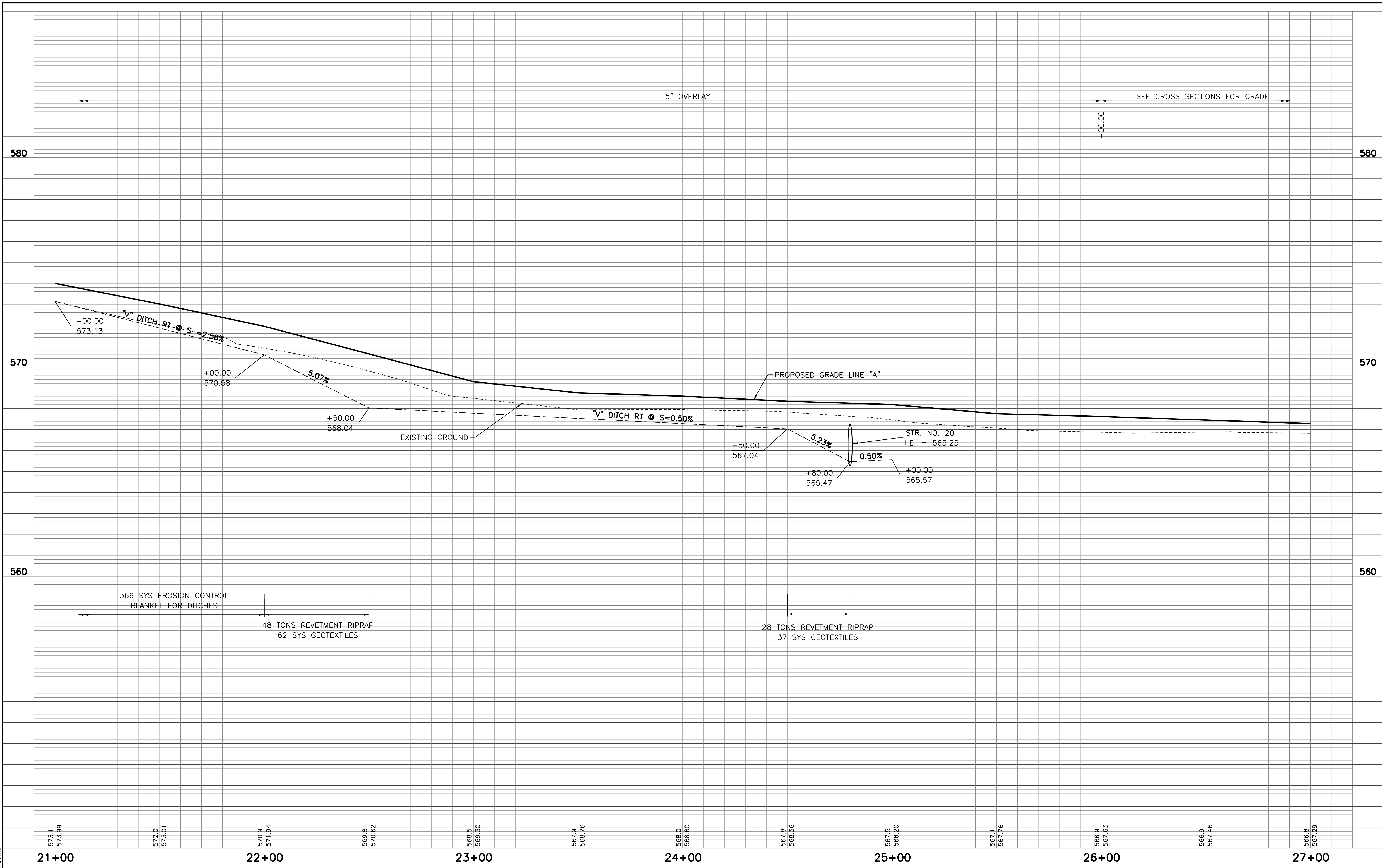


RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	DESIGN ENGINEER	11-14-18
DESIGNED:	DTW	DRAWN:	KAM
CHECKED:	DPL	CHECKED:	DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES

PLAN SHEET
 STA. 21+00.00 TO STA. 27+00.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
	8 of 71
CONTRACT	PROJECT
	ENG1901583164



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 NGD:tlb

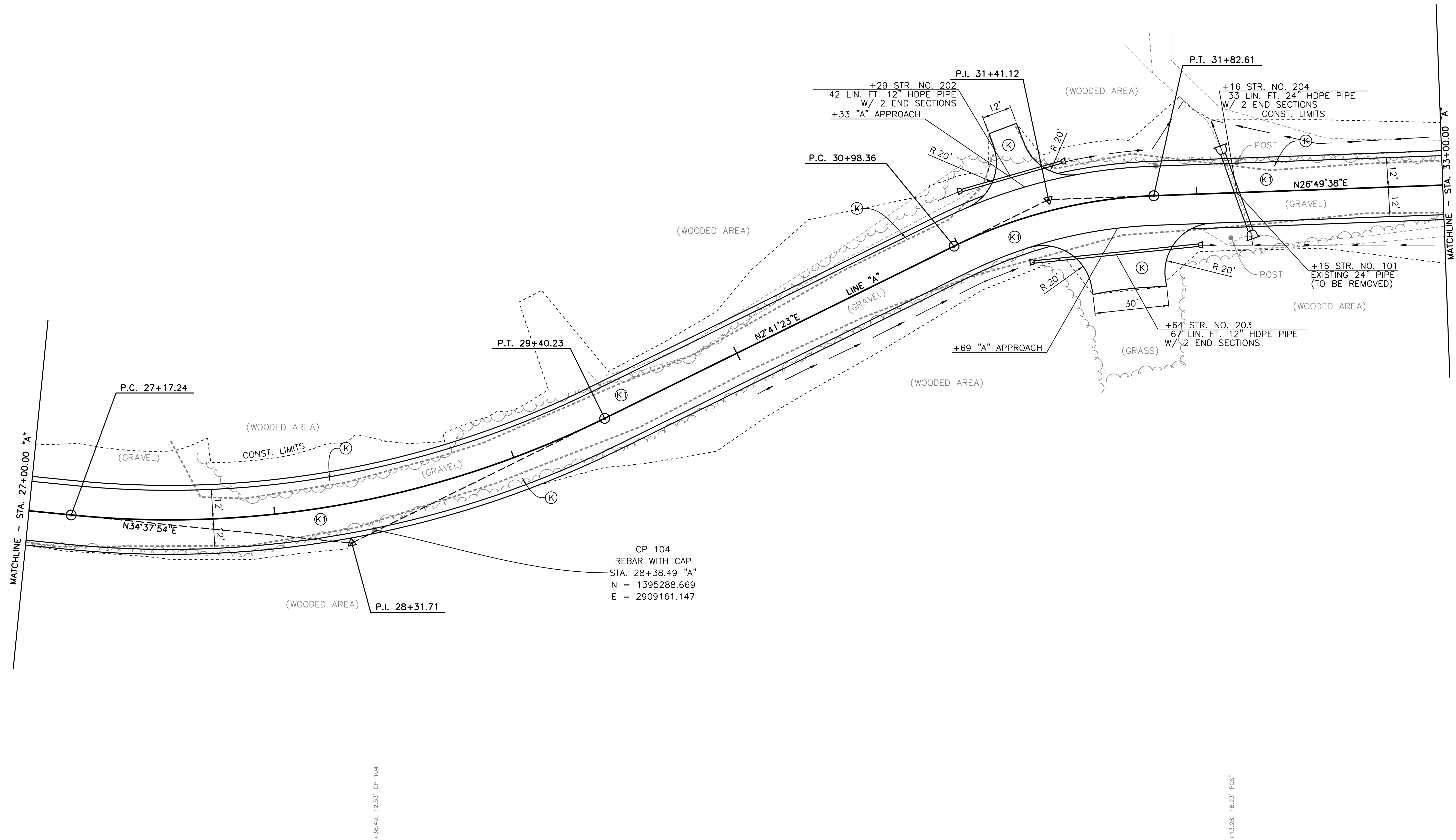
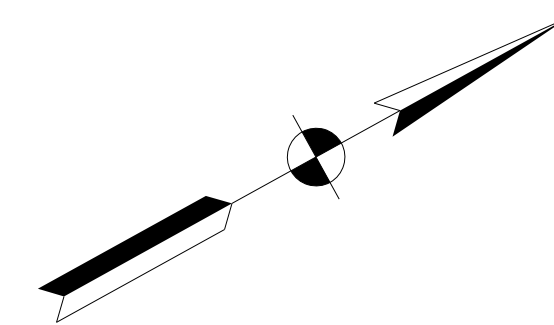
					RECOMMENDED FOR APPROVAL <i>D. Warren</i> DESIGN ENGINEER 11-14-18 DATE			INDIANA DEPARTMENT OF NATURAL RESOURCES				HORIZONTAL SCALE 1" = 20' VERTICAL SCALE 1" = 2' BRIDGE FILE DESIGNATION N/A	
DESIGNED: DTW CHECKED: DPL					DRAWN: KAM CHECKED: DTW			PROFILE SHEET STA. 21+00.00 TO STA. 27+00.00 "A"				SURVEY BOOK SHEETS 9 of 71 CONTRACT PROJECT ENG1901583164	

P.I. = 28+31.71
 N = 1395277.97
 E = 2909161.39
 DELTA = 31°56'31" LT.
 D = 14°19'26"
 R = 400.00'
 T = 114.48'
 L = 223.00'
 E = 16.06'
 e=N.C.

30+00

P.I. = 31+41.12
 N = 1395592.99
 E = 2909176.19
 DELTA = 24°08'16" RT.
 D = 28°38'52"
 R = 200.00'
 T = 42.76'
 L = 84.26'
 E = 4.52'
 e=N.C.

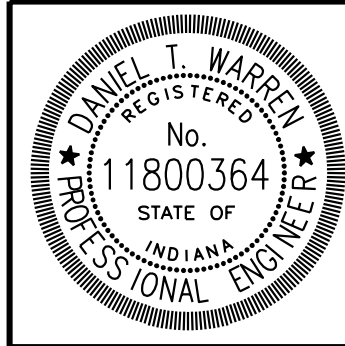
+16.79, 12.19' POST



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- (K) FULL DEPTH HMA PAVEMENT
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 6" COMPACTED AGGREGATE #53
- (K1) HMA PAVEMENT OVERLAY
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 VARIABLE DEPTH COMPACTED AGGREGATE #53
- (34) LINE, PAINT, SOLID, WHITE, 4 IN.
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- (50) NO CHANGE
 REQUIRED TO
 EXISTING SIGN
 AND SUPPORTS
- (59) SIGN, REMOVE
 & RESET

▨ SLOPE PROTECTION (SEE GENERAL NOTES)



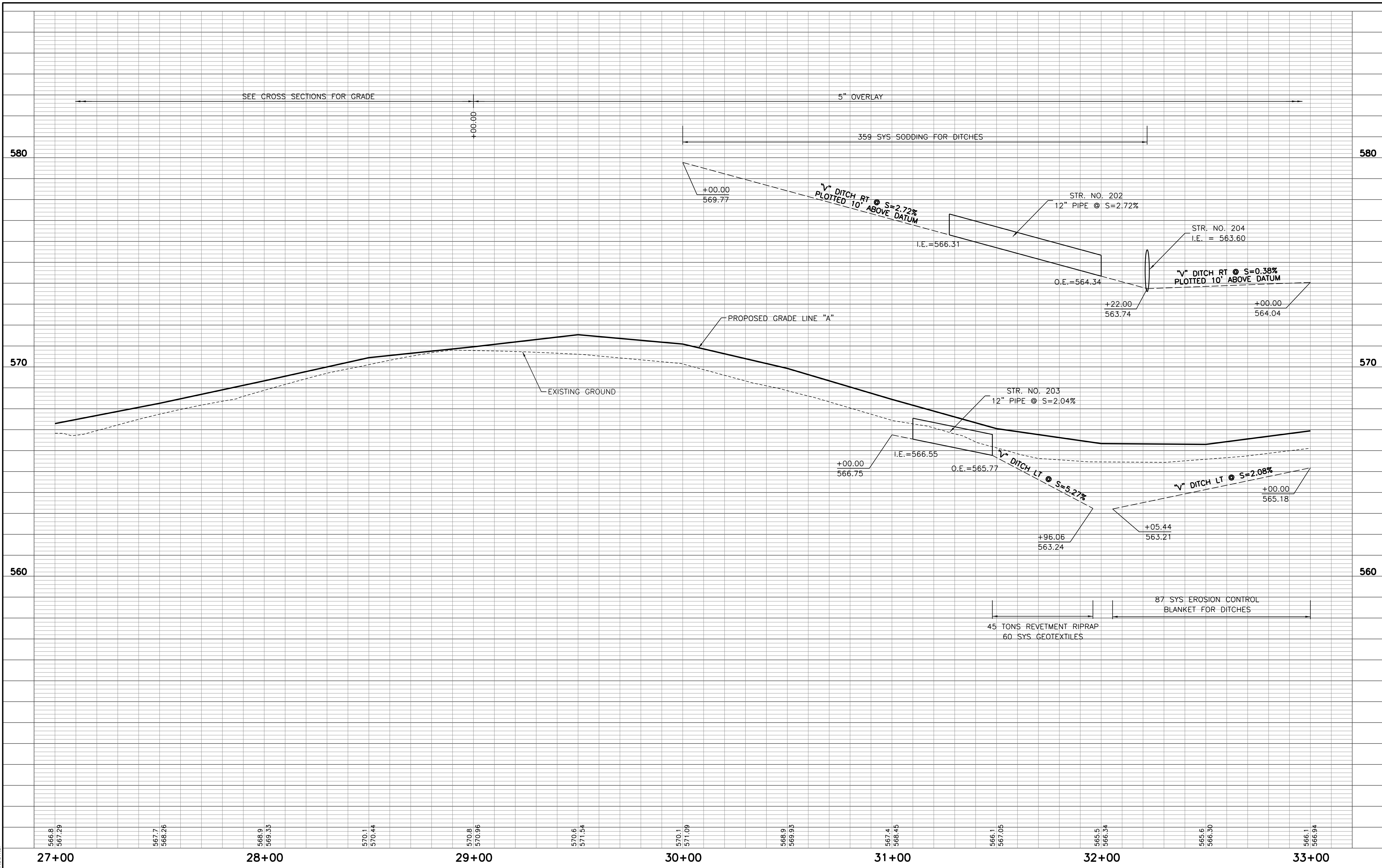
RECOMMENDED FOR APPROVAL: *D. Warren*
 DESIGN ENGINEER
 11-14-18 DATE

DESIGNED: DTW DRAWN: KAM
 CHECKED: DPL CHECKED: DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES

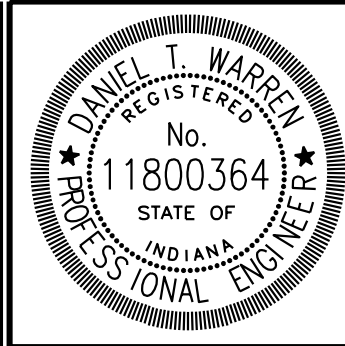
PLAN SHEET
 STA. 27+00.00 TO STA. 33+00.00 "A"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION N/A
SURVEY BOOK	SHEETS 10 of 71
CONTRACT	PROJECT ENG1901583164



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27+00	28+00	29+00	30+00	31+00	32+00	33+00
566.8 567.29	567.7 568.26	568.9 569.35	570.1 570.44	570.8 570.96	570.6 571.54	570.1 571.09
568.9 569.93	567.4 568.45	566.1 567.05	565.5 566.34	565.6 566.30	566.1 566.94	



RECOMMENDED FOR APPROVAL: *D. Warren* 11-14-18 DATE
 DESIGN ENGINEER
 DESIGNED: DTW DRAWN: KAM
 CHECKED: DPL CHECKED: DTW

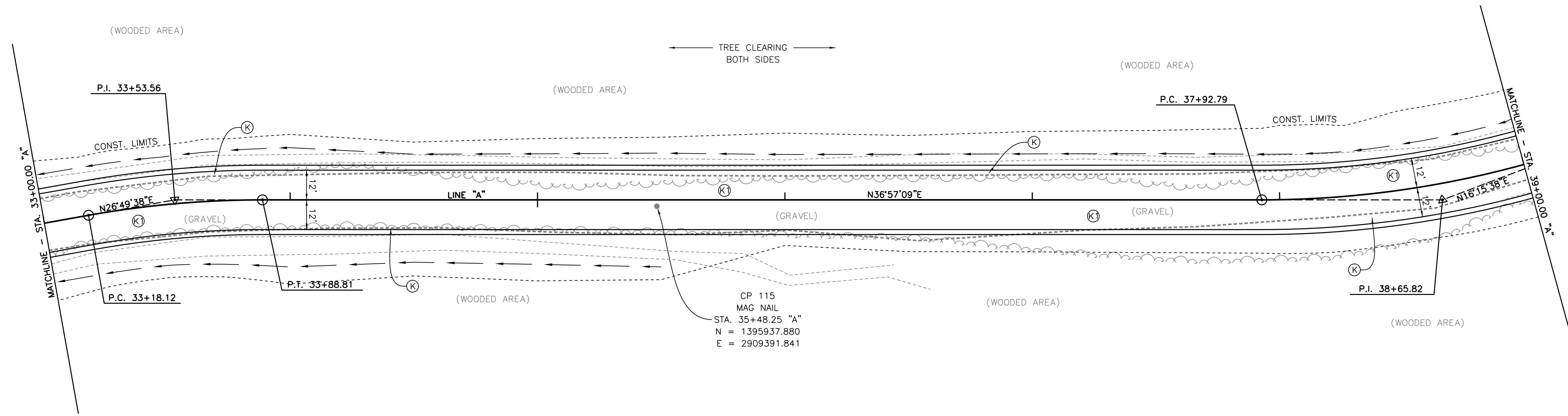
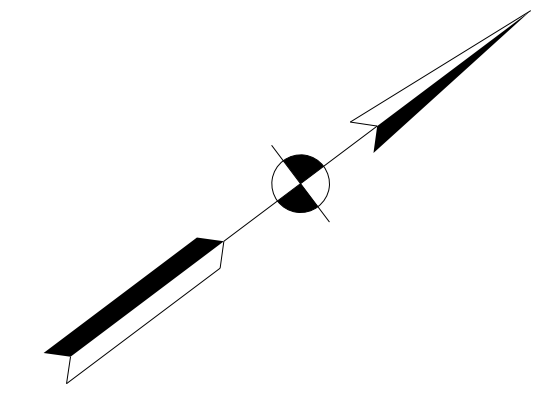
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 PROFILE SHEET
 STA. 27+00.00 TO STA. 33+00.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 2'	N/A
SURVEY BOOK	SHEETS
	11 of 71
CONTRACT	PROJECT
	ENG1901583164

P.I. = 33+53.56
 N = 1395783.69
 E = 2909272.64
 DELTA = 10°07'30" RT.
 D = 14'19'26"
 R = 400.00'
 T = 35.44'
 L = 70.69'
 E = 1.57'
 e=N.C.

35+00

P.I. = 38+65.82
 N = 1396193.21
 E = 2909580.69
 DELTA = 20°41'30" LT.
 D = 14'19'26"
 R = 400.00'
 T = 73.02'
 L = 144.46'
 E = 6.61'
 e=N.C.



CP 115
 MAG NAIL
 STA. 35+48.25 "A"
 N = 1395937.880
 E = 2909391.841

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 11:16:49 AM
 128

	(K) FULL DEPTH HMA PAVEMENT 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON 6" COMPACTED AGGREGATE #53	(K1) HMA PAVEMENT OVERLAY 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON VARIABLE DEPTH COMPACTED AGGREGATE #53	(50) NO CHANGE REQUIRED TO EXISTING SIGN AND SUPPORTS		RECOMMENDED FOR APPROVAL DESIGN ENGINEER 11-14-18 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES	HORIZONTAL SCALE 1" = 20' VERTICAL SCALE N/A	BRIDGE FILE DESIGNATION N/A
SLOPE PROTECTION (SEE GENERAL NOTES)	(34) LINE, PAINT, SOLID, WHITE, 4 IN. (36) LINE, PAINT, SOLID, BLUE, 4 IN.	(59) SIGN, REMOVE & RESET			DESIGNED: DTW DRAWN: KAM CHECKED: DPL CHECKED: DTW	PLAN SHEET STA. 33+00.00 TO STA. 39+00.00 "A"	SURVEY BOOK CONTRACT	SHEETS 12 of 71 PROJECT ENG1901583164

5" OVERLAY

580

580

570

570

560

560

V" DITCH RT @ S=0.38%
PLOTTED 10' ABOVE DATUM

+00.00
564.04

+50.00
565.00

PROPOSED GRADE LINE "A"

V" DITCH LT @ S=0.75%

EXISTING GROUND

+00.00
565.18

V" DITCH LT @ S=1.90%

+00.00
570.25

+50.00
569.30

92 SYS EROSION CONTROL
BLANKET FOR DITCHES

566.1
566.94

566.5
567.19

566.8
567.68

567.0
567.74

567.3
568.14

567.9
568.59

568.0
568.83

568.4
569.22

568.6
569.64

569.0
570.04

569.2
570.35

569.5
570.56

570.3
571.24

33+00

34+00

35+00

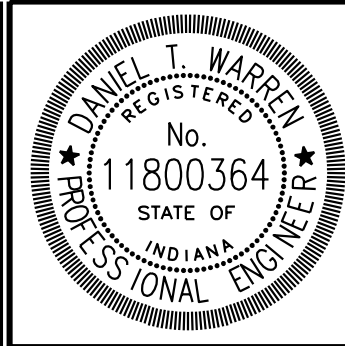
36+00

37+00

38+00

39+00

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 NGD:ldh



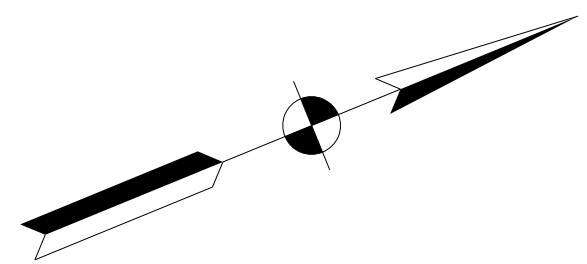
RECOMMENDED FOR APPROVAL *D. Warren* 11-14-18
 DESIGN ENGINEER DATE

DESIGNED: DTW DRAWN: KAM
 CHECKED: DPL CHECKED: DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES

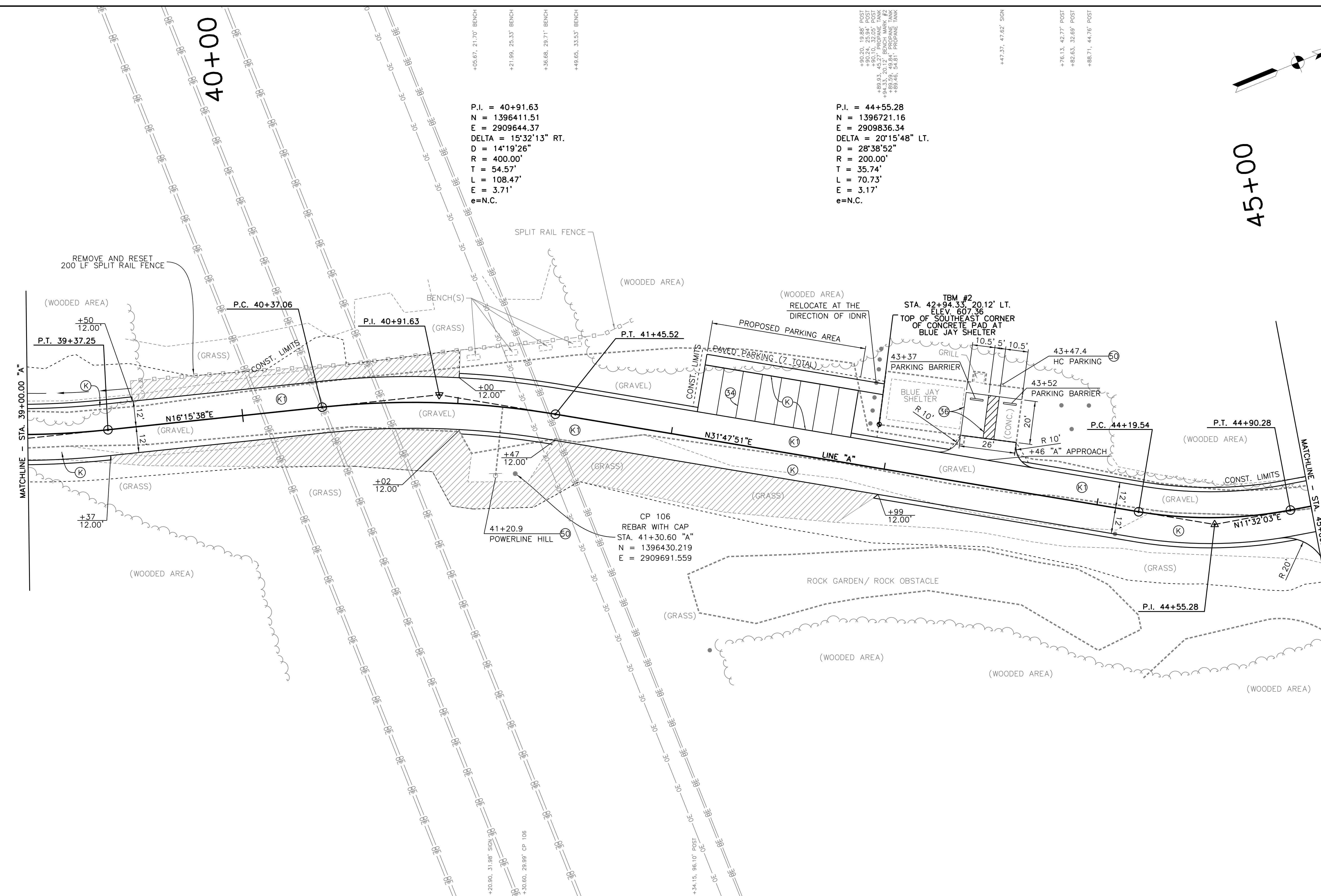
PROFILE SHEET
 STA. 33+00.00 TO STA. 39+00.00 "A"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 2'	DESIGNATION N/A
SURVEY BOOK	SHEETS 13 of 71
CONTRACT	PROJECT ENG1901583164



45+00

40+00



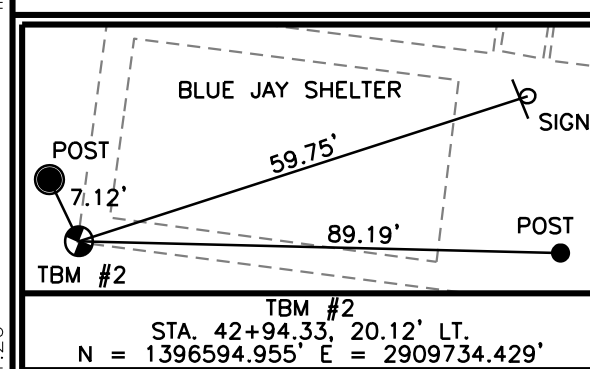
P.I. = 40+91.63
 N = 1396411.51
 E = 2909644.37
 DELTA = 15°32'13" RT.
 D = 14°19'26"
 R = 400.00'
 T = 54.57'
 L = 108.47'
 E = 3.71'
 e=N.C.

P.I. = 44+55.28
 N = 1396721.16
 E = 2909836.34
 DELTA = 20°15'48" LT.
 D = 28°38'52"
 R = 200.00'
 T = 35.74'
 L = 70.73'
 E = 3.17'
 e=N.C.

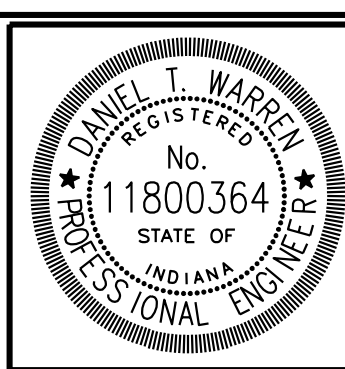
MATCHLINE - STA. 39+00.00 "A"

MATCHLINE - STA. 45+00.00 "A"

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 11:16:52 AM
 PDP:ahdg
 NGD:tbl



- (K) FULL DEPTH HMA PAVEMENT
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 6" COMPACTED AGGREGATE #53
- (K1) HMA PAVEMENT OVERLAY
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 VARIABLE DEPTH COMPACTED AGGREGATE #53
- (34) LINE, PAINT, SOLID, WHITE, 4 IN.
- (36) LINE, PAINT, SOLID, BLUE, 4 IN.
- (SLOPE PROTECTION) SLOPE PROTECTION (SEE GENERAL NOTES)
- (50) NO CHANGE REQUIRED TO EXISTING SIGN AND SUPPORTS
- (59) SIGN, REMOVE & RESET



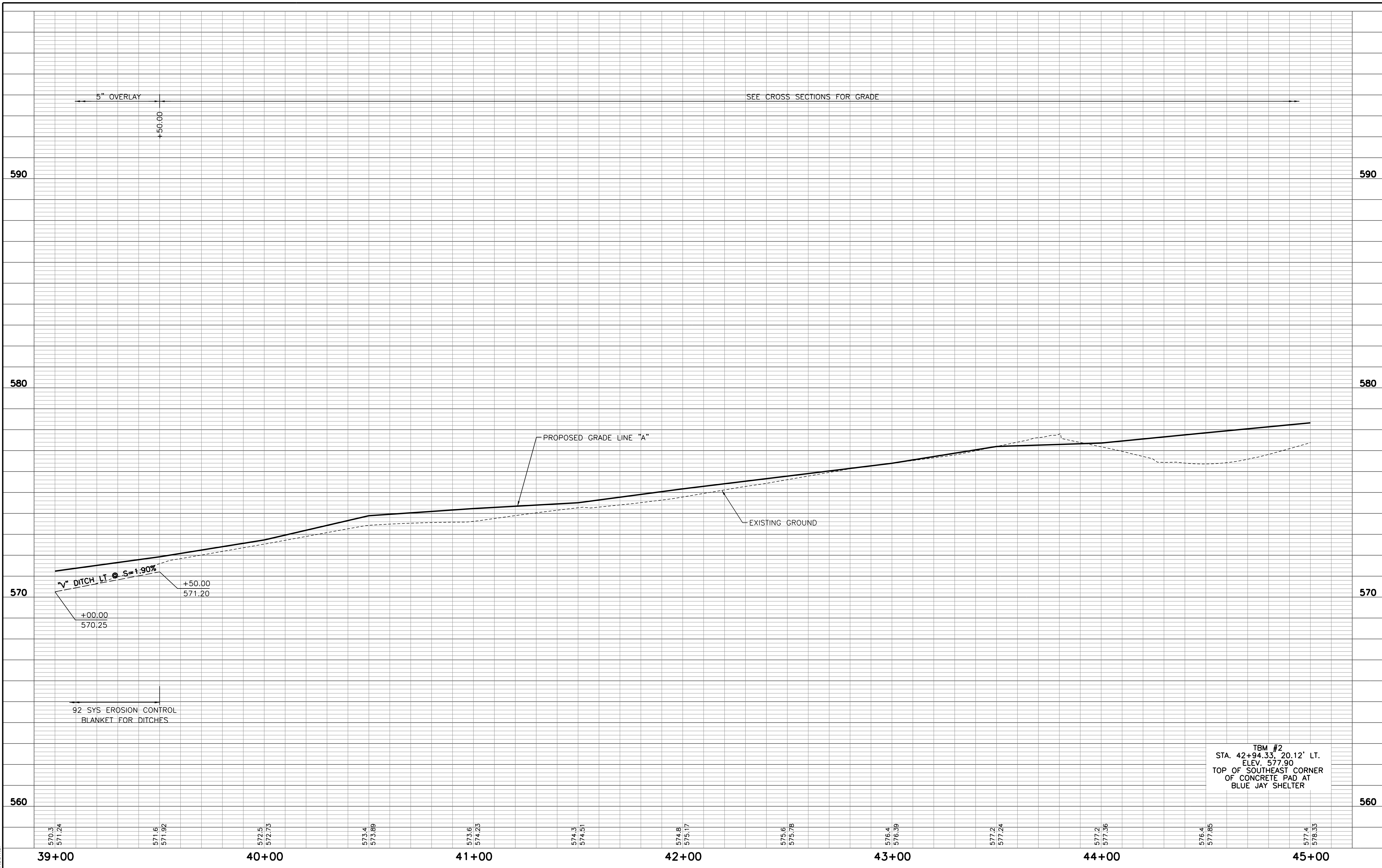
RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER
 11-14-18
 DATE

DESIGNED: DTW
 DRAWN: KAM
 CHECKED: DPL
 CHECKED: DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES

PLAN SHEET
 STA. 39+00.00 TO STA. 45+00.00 "A"

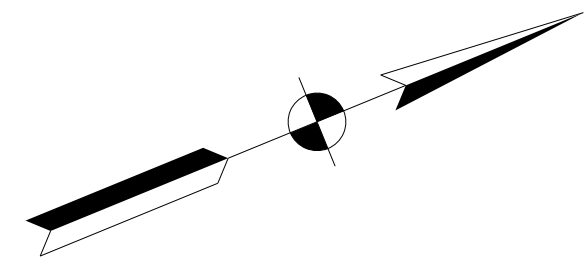
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VERTICAL SCALE N/A	DESIGNATION N/A
SURVEY BOOK	SHEETS 14 of 71
CONTRACT	PROJECT ENG1901583164



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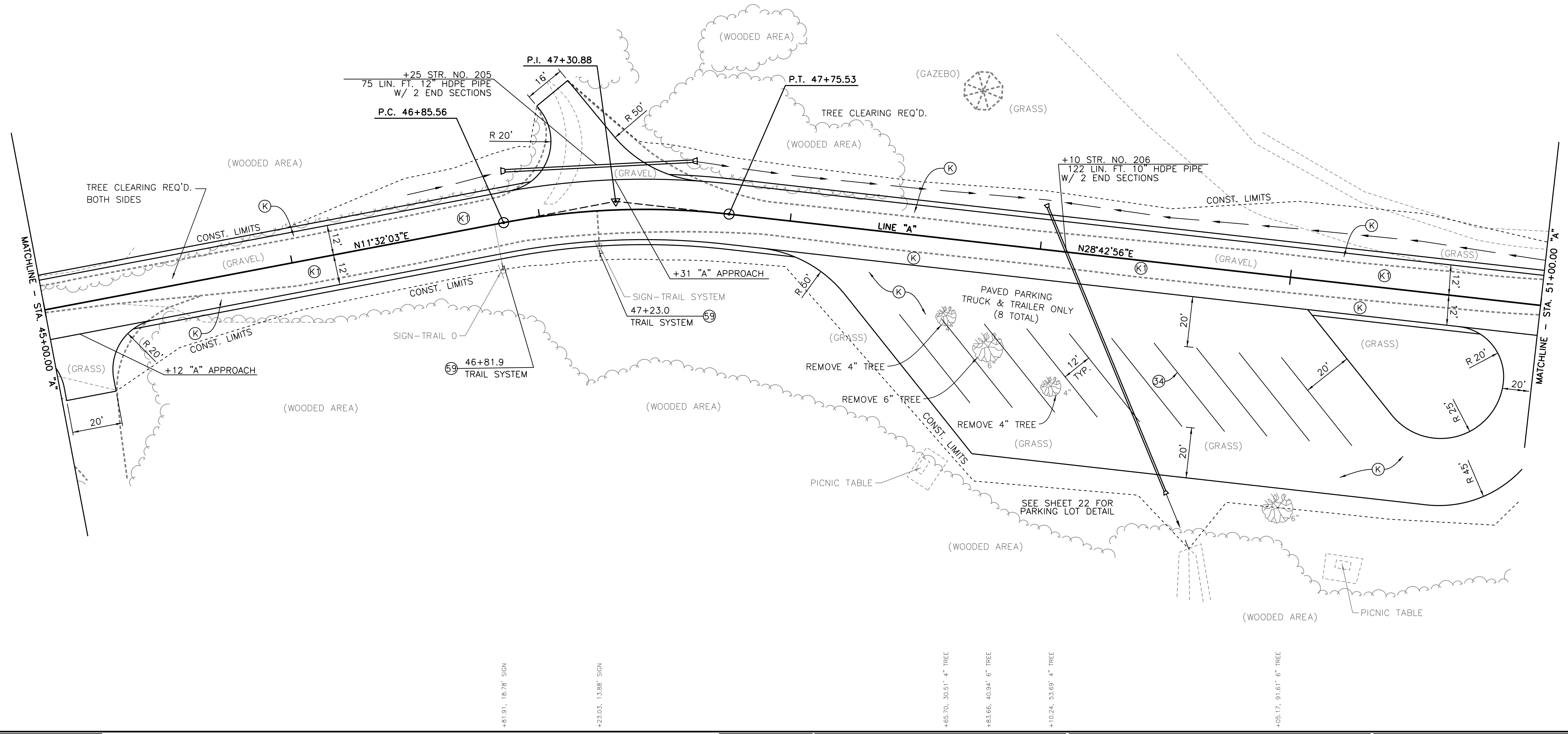
								RECOMMENDED FOR APPROVAL <i>Dink</i> 11-14-18 DESIGN ENGINEER DATE				INDIANA DEPARTMENT OF NATURAL RESOURCES				HORIZONTAL SCALE 1" = 20' VERTICAL SCALE 1" = 2'		BRIDGE FILE DESIGNATION N/A	
DESIGNED: DTW		DRAWN: KAM		CHECKED: DPL		CHECKED: DTW		PROFILE SHEET STA. 39+00.00 TO STA. 45+00.00 "A"				SURVEY BOOK CONTRACT		SHEETS 15 of 71 PROJECT ENG1901583164					

50+00



P.I. = 47+30.88
 N = 1396991.92
 E = 2909891.59
 DELTA = 17°10'53" RT.
 D = 19°05'55"
 R = 300.00'
 T = 45.32'
 L = 89.96'
 E = 3.40'
 e=N.C.

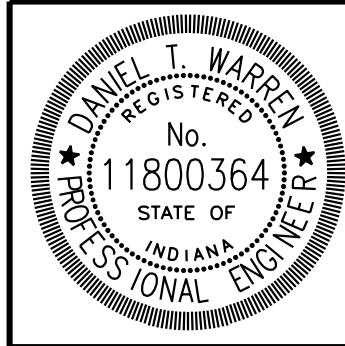
45+00



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- (K) FULL DEPTH HMA PAVEMENT
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 6" COMPACTED AGGREGATE #53
- (K1) HMA PAVEMENT OVERLAY
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 VARIABLE DEPTH COMPACTED AGGREGATE #53
- (34) LINE, PAINT, SOLID, WHITE, 4 IN.
- (36) LINE, PAINT, SOLID, BLUE, 4 IN.
- (50) NO CHANGE
 REQUIRED TO
 EXISTING SIGN
 AND SUPPORTS
- (59) SIGN, REMOVE
 & RESET

▨ SLOPE PROTECTION (SEE GENERAL NOTES)



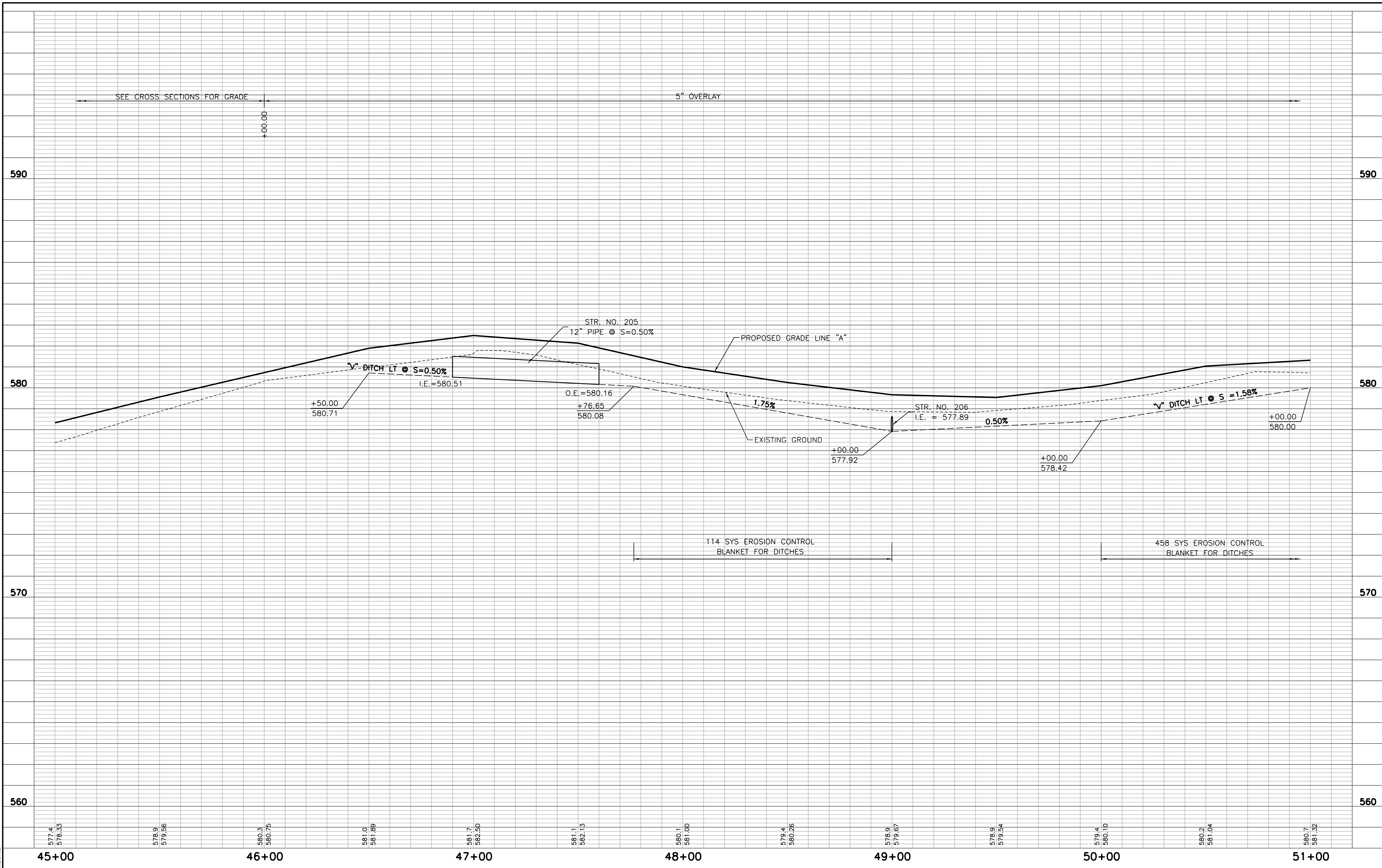
RECOMMENDED FOR APPROVAL
D. Warren
 DESIGN ENGINEER 11-14-18 DATE

DESIGNED: DTW DRAWN: KAM
 CHECKED: DPL CHECKED: DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES

PLAN SHEET
 STA. 45+00.00 TO STA. 51+00.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
	16 of 71
CONTRACT	PROJECT
	ENG1901583164



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 NGD:DLB

												RECOMMENDED FOR APPROVAL <i>D. Warren</i> DESIGN ENGINEER 11-14-18 DATE			INDIANA DEPARTMENT OF NATURAL RESOURCES PROFILE SHEET STA. 45+00.00 TO STA. 51+00.00 "A"						HORIZONTAL SCALE 1" = 20' VERTICAL SCALE 1" = 2' SURVEY BOOK CONTRACT		BRIDGE FILE DESIGNATION N/A SHEETS 17 of 71 PROJECT ENG1901583164	
DESIGNED: DTW		DRAWN: KAM		CHECKED: DPL		CHECKED: DTW																		

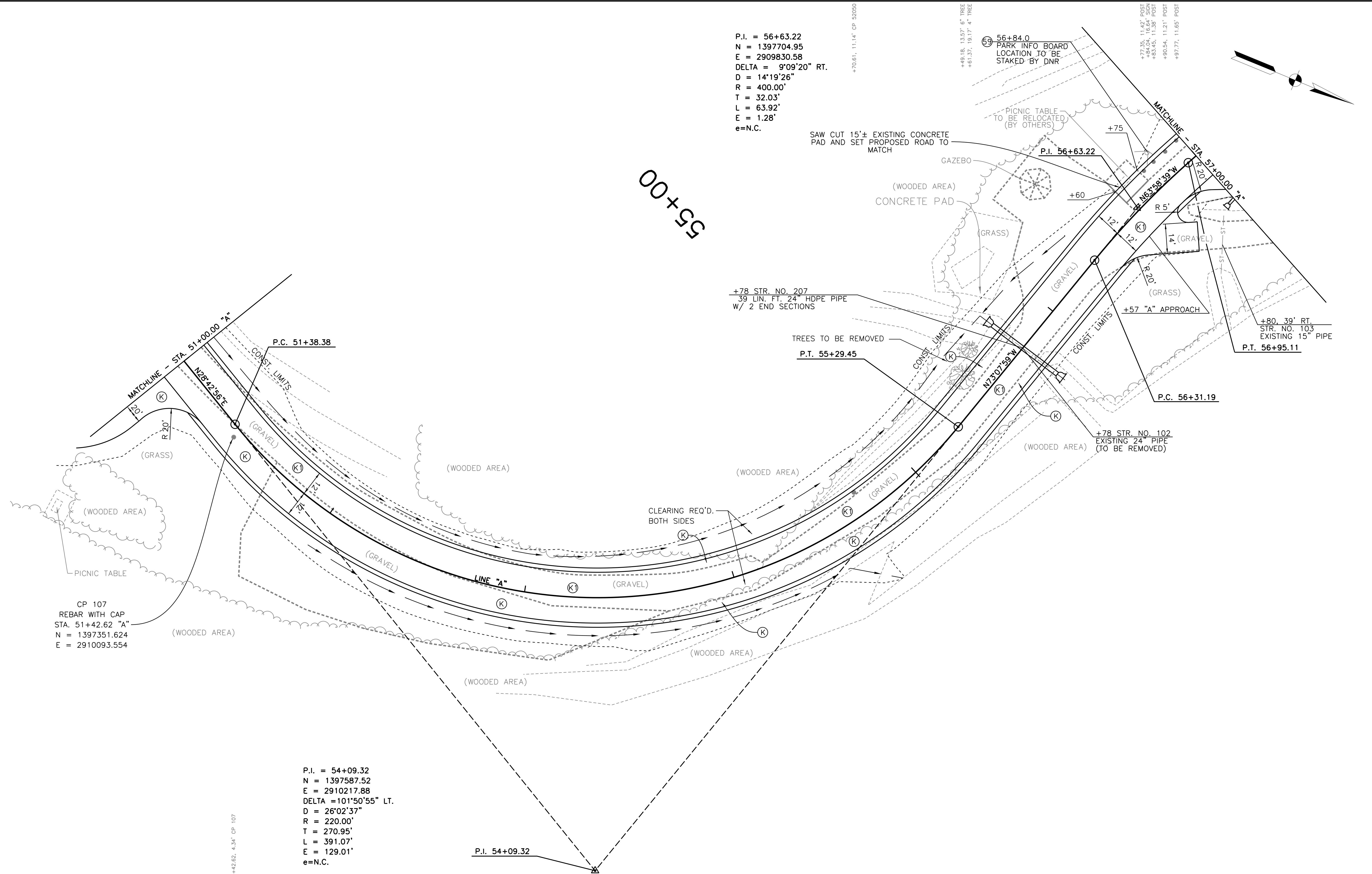
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P.I. = 56+63.22
 N = 1397704.95
 E = 2909830.58
 DELTA = 9°09'20" RT.
 D = 14°19'26"
 R = 400.00'
 T = 32.03'
 L = 63.92'
 E = 1.28'
 e=N.C.

P.I. = 54+09.32
 N = 1397587.52
 E = 2910217.88
 DELTA = 101°50'55" LT.
 D = 26°02'37"
 R = 220.00'
 T = 270.95'
 L = 391.07'
 E = 129.01'
 e=N.C.

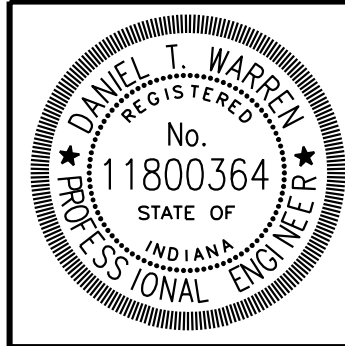
P.I. 54+09.32

55+00



- (K) FULL DEPTH HMA PAVEMENT
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 6" COMPACTED AGGREGATE #53
- (K1) HMA PAVEMENT OVERLAY
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 VARIABLE DEPTH COMPACTED AGGREGATE #53
- (34) LINE, PAINT, SOLID, WHITE, 4 IN.
- (36) LINE, PAINT, SOLID, BLUE, 4 IN.
- (50) NO CHANGE REQUIRED TO EXISTING SIGN AND SUPPORTS
- (59) SIGN, REMOVE & RESET

▨ SLOPE PROTECTION (SEE GENERAL NOTES)



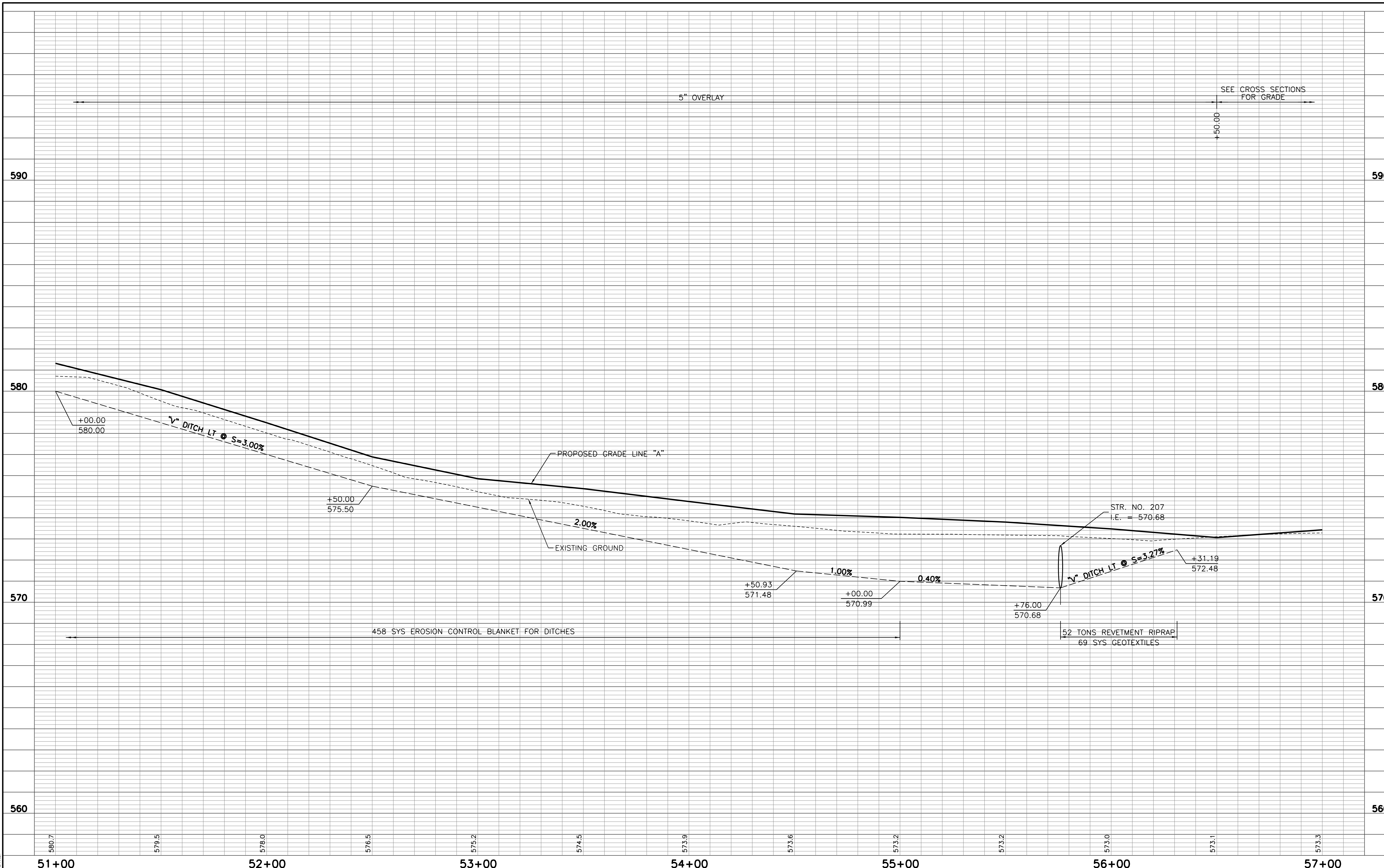
RECOMMENDED FOR APPROVAL
 DESIGN ENGINEER
 11-14-18
 DATE

DESIGNED: DTW DRAWN: KAM
 CHECKED: DPL CHECKED: DTW

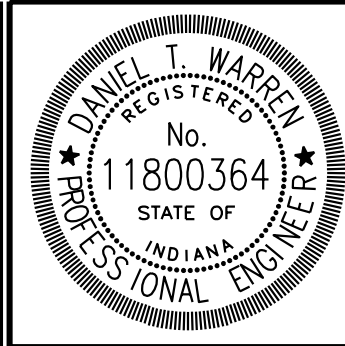
INDIANA
 DEPARTMENT OF NATURAL RESOURCES

PLAN SHEET
 STA. 51+00.00 TO STA. 57+00.00 "A"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE N/A	DESIGNATION N/A
SURVEY BOOK	SHEETS
CONTRACT	18 of 71
	PROJECT ENG1901583164



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RECOMMENDED FOR APPROVAL		<i>Dink</i>		11-14-18	
DESIGNED: DTW		DRAWN: KAM		DATE	
CHECKED: DPL		CHECKED: DTW			

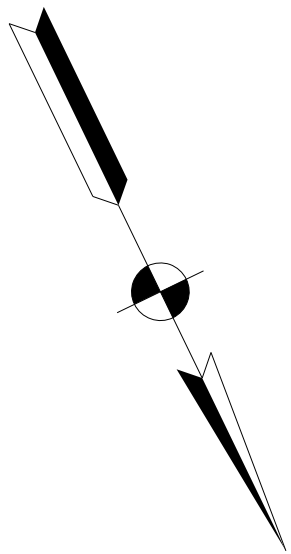
INDIANA
DEPARTMENT OF NATURAL RESOURCES
PROFILE SHEET
 STA. 51+00.00 TO STA. 57+00.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 2'	N/A
SURVEY BOOK	SHEETS
	19 of 71
CONTRACT	PROJECT
	ENG1901583164

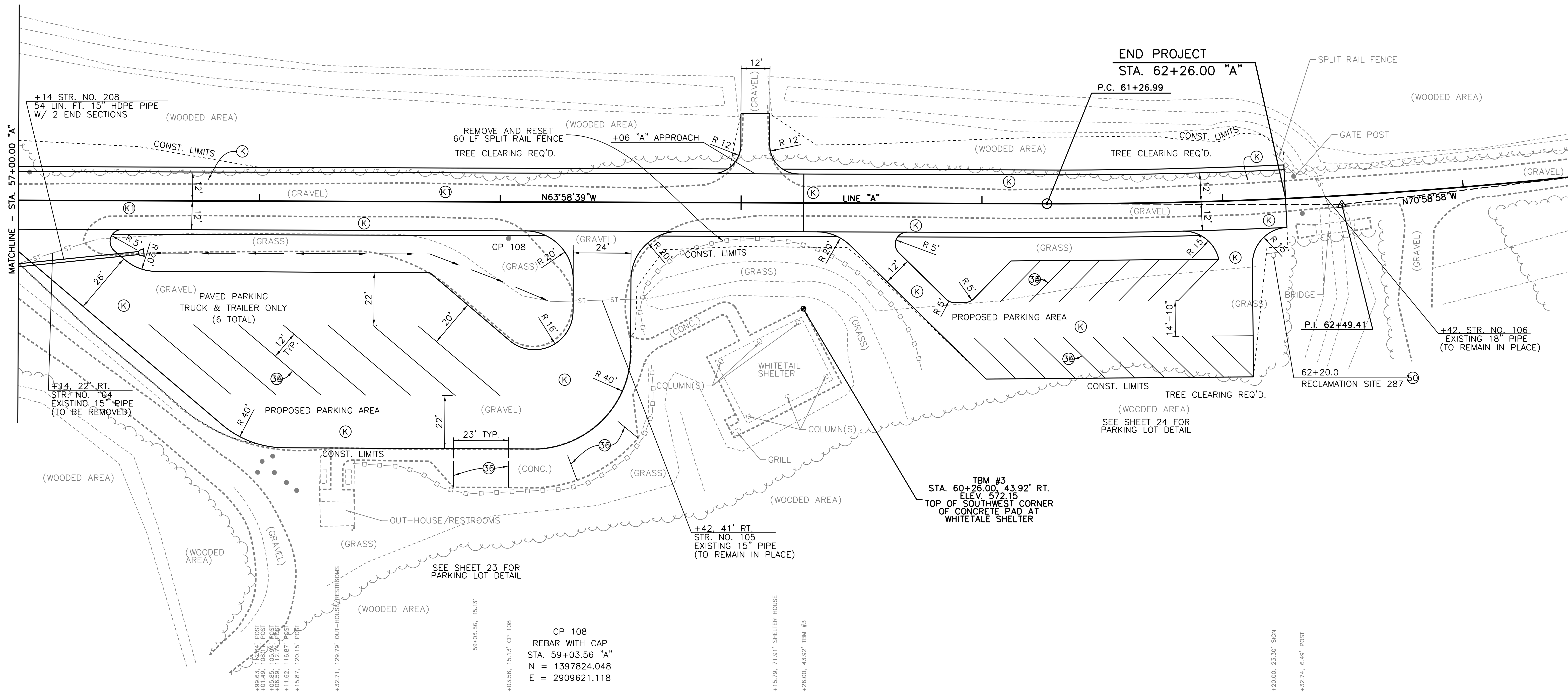
+04.56, 11.73' POST

+29.89, 9.06' POST

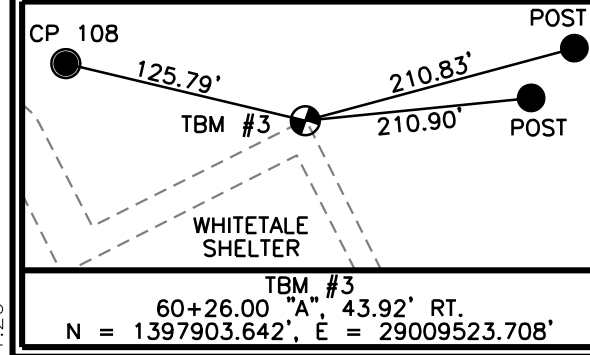
P.I. = 62+49.41
 N = 1397962.18
 E = 2909303.69
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 D = 2'51'53"
 R = 2000.00'
 T = 122.42'
 L = 244.54'
 E = 3.74'
 e=N.C.



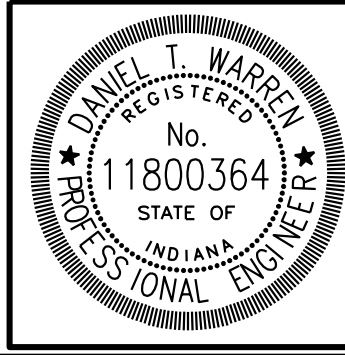
60+00



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 11:08:58 AM
 NGD:TLB



- (K) FULL DEPTH HMA PAVEMENT
165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
6" COMPACTED AGGREGATE #53
- (K1) HMA PAVEMENT OVERLAY
165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
VARIABLE DEPTH COMPACTED AGGREGATE #53
- (54) LINE, PAINT, SOLID, WHITE, 4 IN.
- (56) LINE, PAINT, SOLID, BLUE, 4 IN.
- (50) NO CHANGE
REQUIRED TO
EXISTING SIGN
AND SUPPORTS
- (59) SIGN, REMOVE
& RESET
- ▨ SLOPE PROTECTION (SEE GENERAL NOTES)



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		11-14-18	
DESIGNED: DTW		DRAWN: KAM		DATE	
CHECKED: DPL		CHECKED: DTW			

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 PLAN SHEET
 STA. 57+00.00 TO STA. 63+17.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
	20 of 71
CONTRACT	PROJECT
	ENG1901583164

P.V.I. 60+17.00 "A"
 ELEV. 574.19
 NO CURVE

SEE CROSS SECTIONS FOR GRADE

200' PAVEMENT TAPER

+26.00

590

590

580

580

PROPOSED GRADE LINE "A"

EXISTING GROUND

END PROJECT
 STA. 62+26.00 "A"
 ELEV. = 572.70

570

570

TBM #3
 STA. 60+26.00, 43.92' RT.
 ELEV. 572.15'
 TOP OF SOUTHWEST CORNER OF
 CONCRETE PAD AT WHITETALE SHELTER

560

560

573.3

573.3

573.5

573.7

573.9

573.7

573.5

573.0

572.8

572.7

572.8

572.6

572.8

57+00

58+00

59+00

60+00

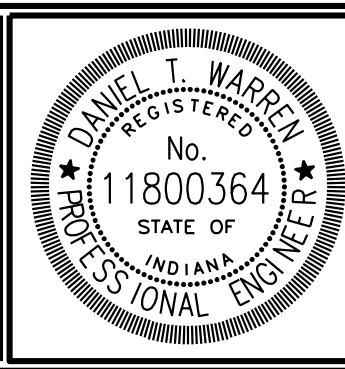
61+00

62+00

63+00

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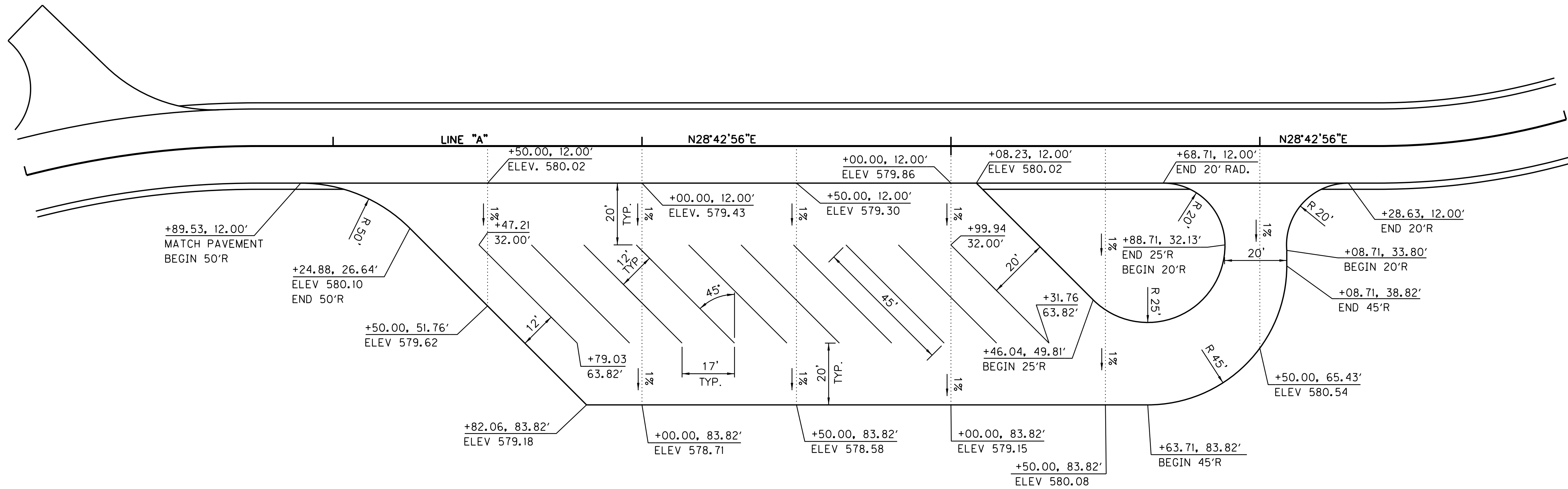
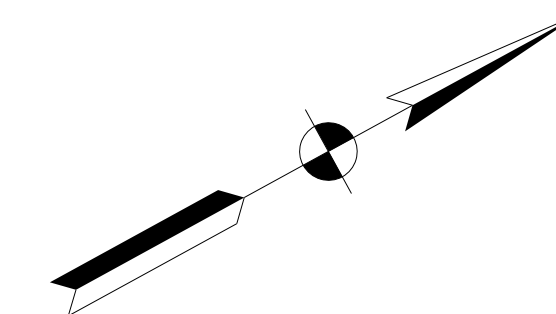


RECOMMENDED FOR APPROVAL	<i>Dink</i>	11-14-18
DESIGNED: DTW	DRAWN: KAM	DATE
CHECKED: DPL	CHECKED: DTW	

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 PROFILE SHEET
 STA. 57+00.00 TO STA. 63+17.00 "A"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 2'	DESIGNATION N/A
SURVEY BOOK	SHEETS 21 of 71
CONTRACT	PROJECT ENG1901583164

50+00



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 11/14/2018 REVISION 3.0
 1:17:00 AM PDP:ahdg
 NGD:tbl

(K) FULL DEPTH HMA PAVEMENT
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 6" COMPACTED AGGREGATE #53

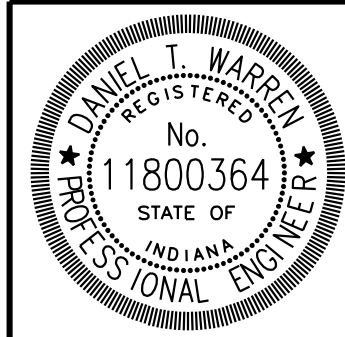
SLOPE PROTECTION (SEE GENERAL NOTES)

(K) HMA PAVEMENT OVERLAY
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 VARIABLE DEPTH COMPACTED AGGREGATE #53

(34) LINE, PAINT, SOLID, WHITE, 4 IN.
 (36) LINE, PAINT, SOLID, BLUE, 4 IN.

(50) NO CHANGE
 REQUIRED TO
 EXISTING SIGN
 AND SUPPORTS

(59) SIGN, REMOVE
 & RESET

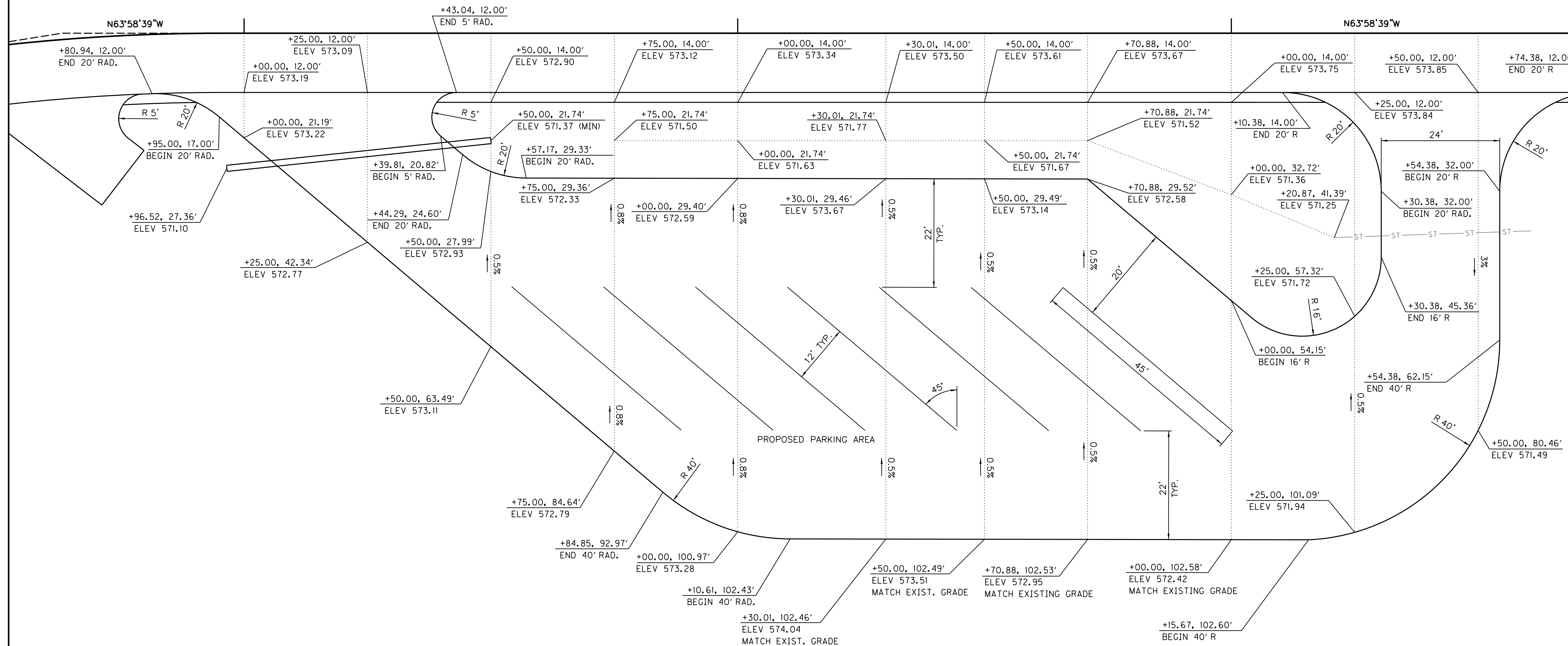
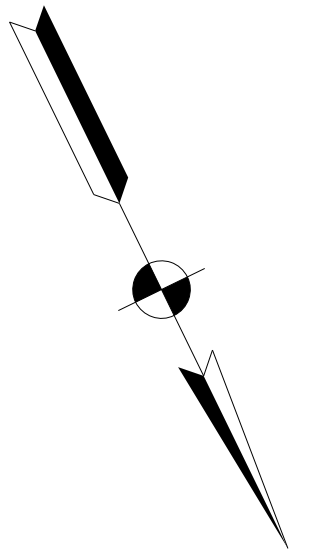


RECOMMENDED FOR APPROVAL	<i>Dink</i>	DESIGN ENGINEER	11-14-18
DESIGNED:	DTW	DRAWN:	KAM
CHECKED:	DPL	CHECKED:	DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 PARKING LOT DETAIL
 STA. 50+00.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
	22 of 71
CONTRACT	PROJECT
	ENG1901583164

58+00



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 NGD:tbl

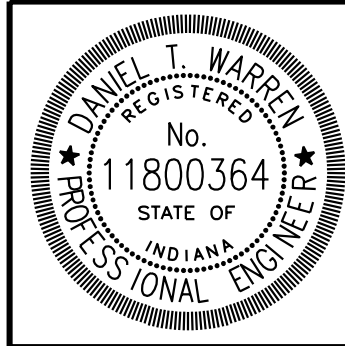
(K) FULL DEPTH HMA PAVEMENT
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 6" COMPACTED AGGREGATE #53

SLOPE PROTECTION (SEE GENERAL NOTES)

(K1) HMA PAVEMENT OVERLAY
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 VARIABLE DEPTH COMPACTED AGGREGATE #53

(34) LINE, PAINT, SOLID, WHITE, 4 IN.
 (36) LINE, PAINT, SOLID, BLUE, 4 IN.

(50) NO CHANGE
 REQUIRED TO
 EXISTING SIGN
 AND SUPPORTS
 (59) SIGN, REMOVE
 & RESET

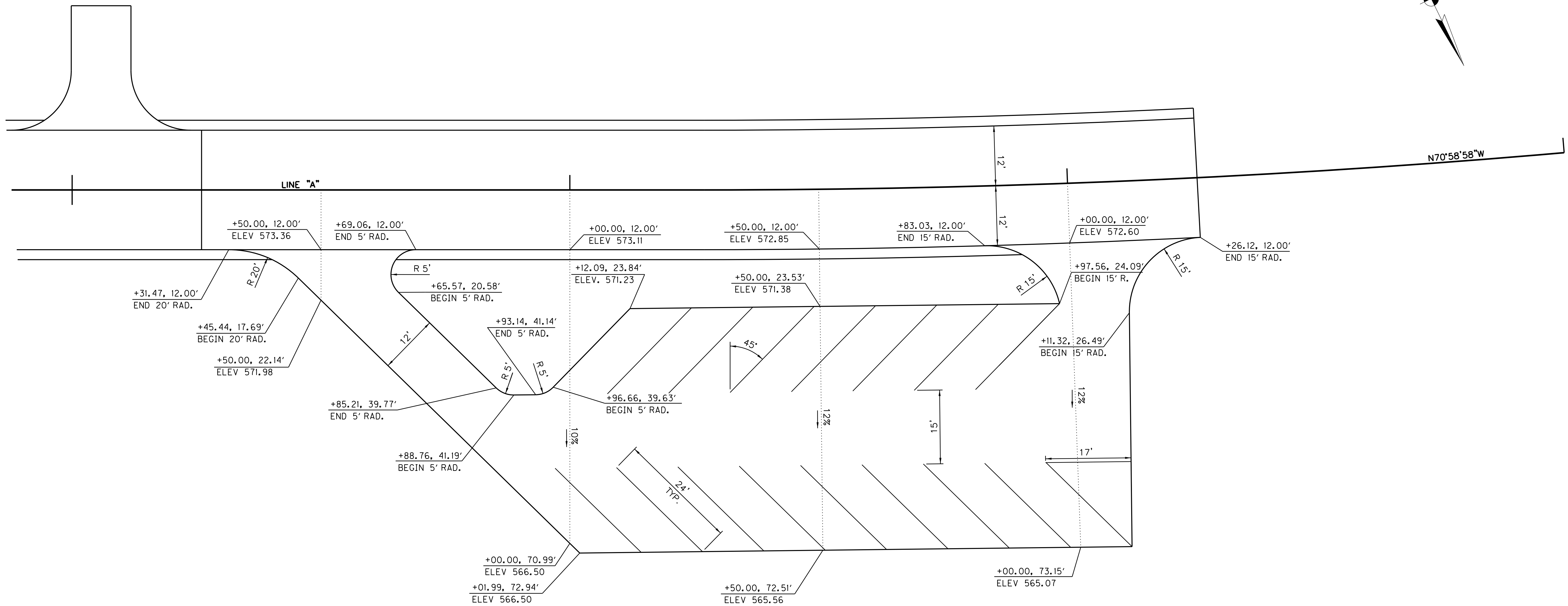


RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	DESIGN ENGINEER	11-14-18
DESIGNED:	DTW	DRAWN:	KAM
CHECKED:	DPL	CHECKED:	DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
PARKING LOT DETAIL
 STA. 58+00.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
	23 of 71
CONTRACT	PROJECT
	ENG1901583164

61+00



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 11:17:01 AM
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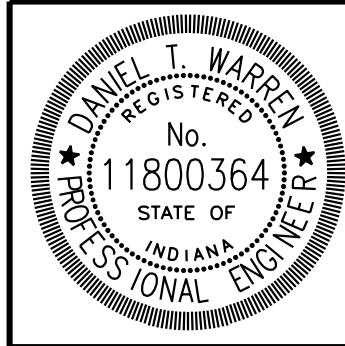
(K) FULL DEPTH HMA PAVEMENT
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 6" COMPACTED AGGREGATE #53

SLOPE PROTECTION (SEE GENERAL NOTES)

(K) HMA PAVEMENT OVERLAY
 165 #/SYD HMA SURFACE TYPE 'C', 9.5 mm ON
 385 #/SYD HMA BASE, TYPE 'C', 25.0 mm ON
 VARIABLE DEPTH COMPACTED AGGREGATE #53

(34) LINE, PAINT, SOLID, WHITE, 4 IN.
 (36) LINE, PAINT, SOLID, BLUE, 4 IN.

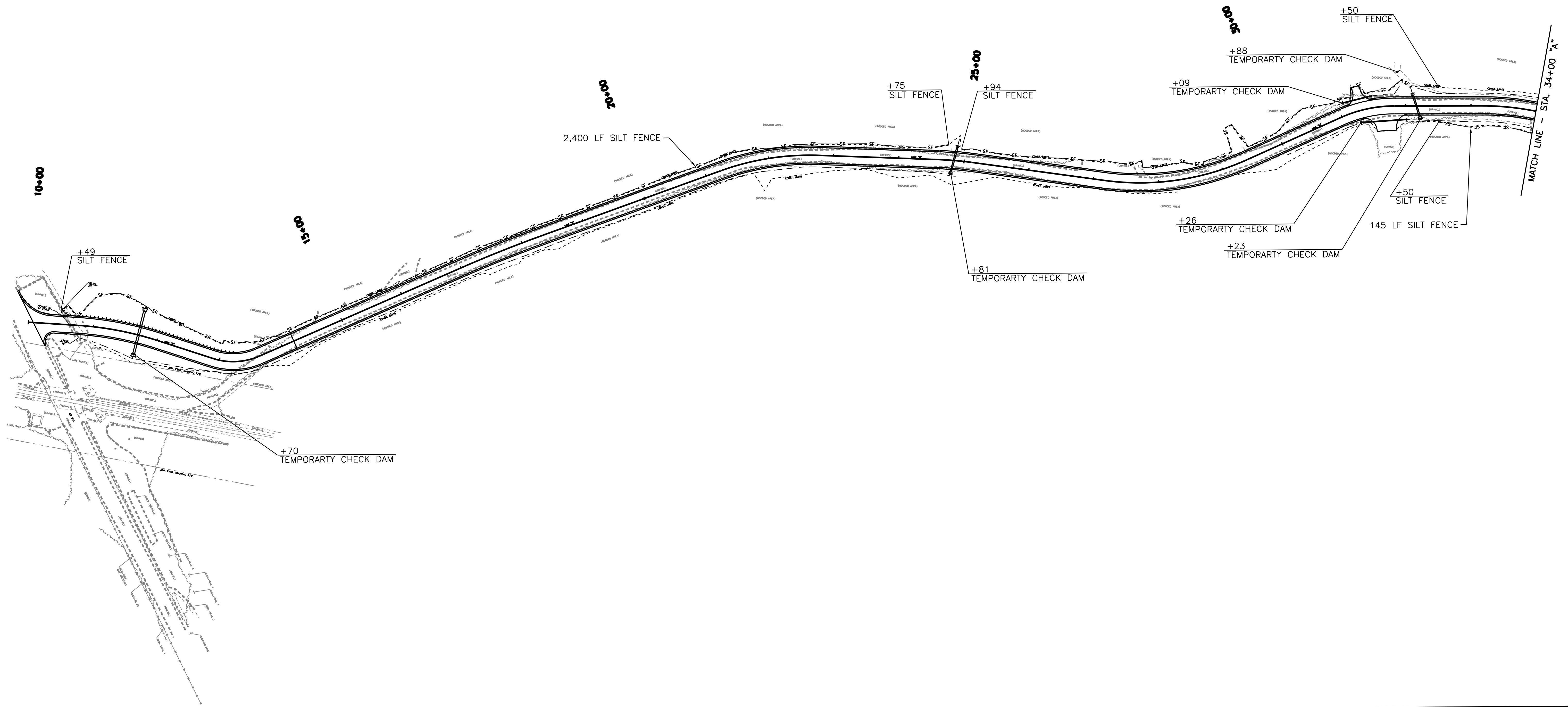
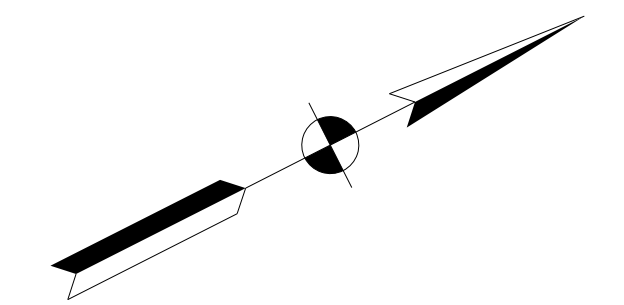
(50) NO CHANGE
 REQUIRED TO
 EXISTING SIGN
 AND SUPPORTS
 (59) SIGN, REMOVE
 & RESET



RECOMMENDED FOR APPROVAL	<i>Dink</i>	DESIGN ENGINEER	11-14-18
DESIGNED:	DTW	DRAWN:	KAM
CHECKED:	DPL	CHECKED:	DTW

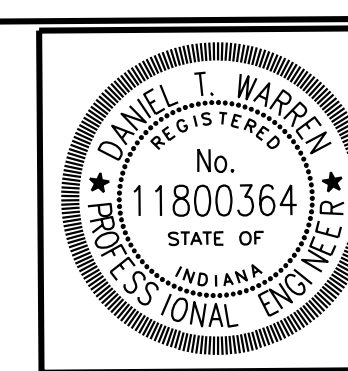
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
PARKING LOT DETAIL
 STA. 61+00.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 10'	
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
	24 of 71
CONTRACT	PROJECT
	ENG1901583164



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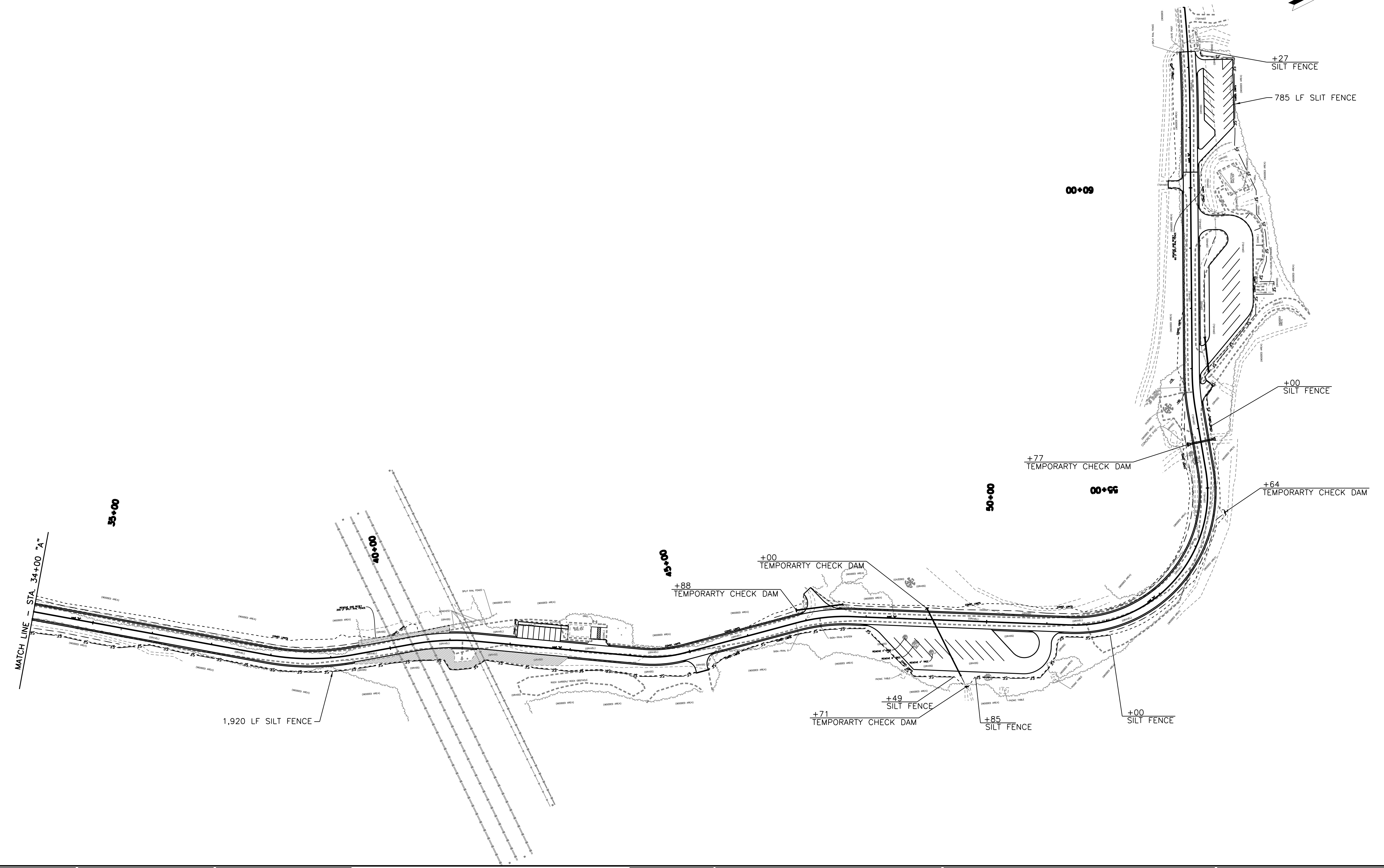
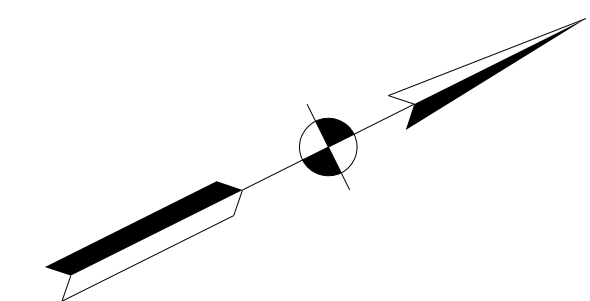
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- FLOW ARROW
- SF TEMPORARY SILT FENCE



RECOMMENDED FOR APPROVAL		 DESIGN ENGINEER		11-14-18	DATE
DESIGNED:	DTW	DRAWN:	KAM		
CHECKED:	DPL	CHECKED:	DTW		

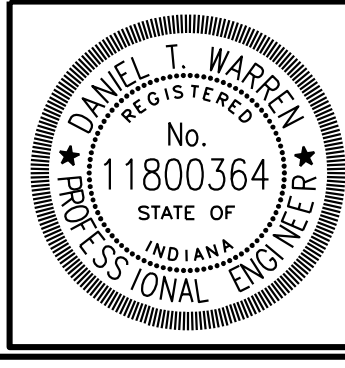
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
EROSION CONTROL PLAN SHEET
 STA. 10+00.00 TO STA. 34+00.00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 75'	
VERTICAL SCALE	DESIGNATION
N/A	N/A
SURVEY BOOK	SHEETS
	25 of 71
CONTRACT	PROJECT
	ENG1901583164



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 11/14/2018 REVISION 3.0
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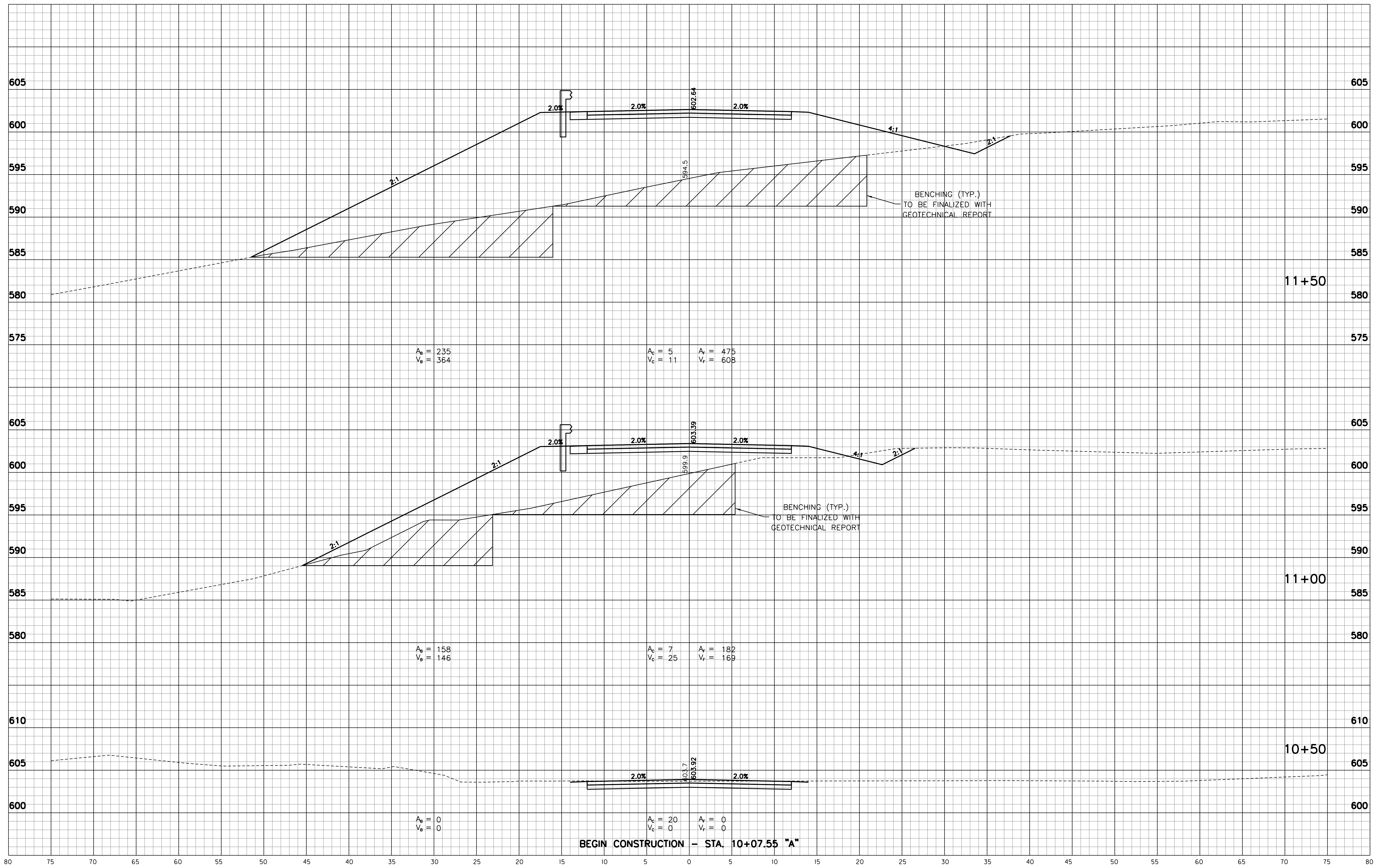
- TEMPORARY CHECK DAM, REVETMENT RIPRAP
- FLOW ARROW
- SF TEMPORARY SILT FENCE



RECOMMENDED FOR APPROVAL		11-14-18 DATE
DESIGNED: DTW	DRAWN: KAM	
CHECKED: DPL	CHECKED: DTW	

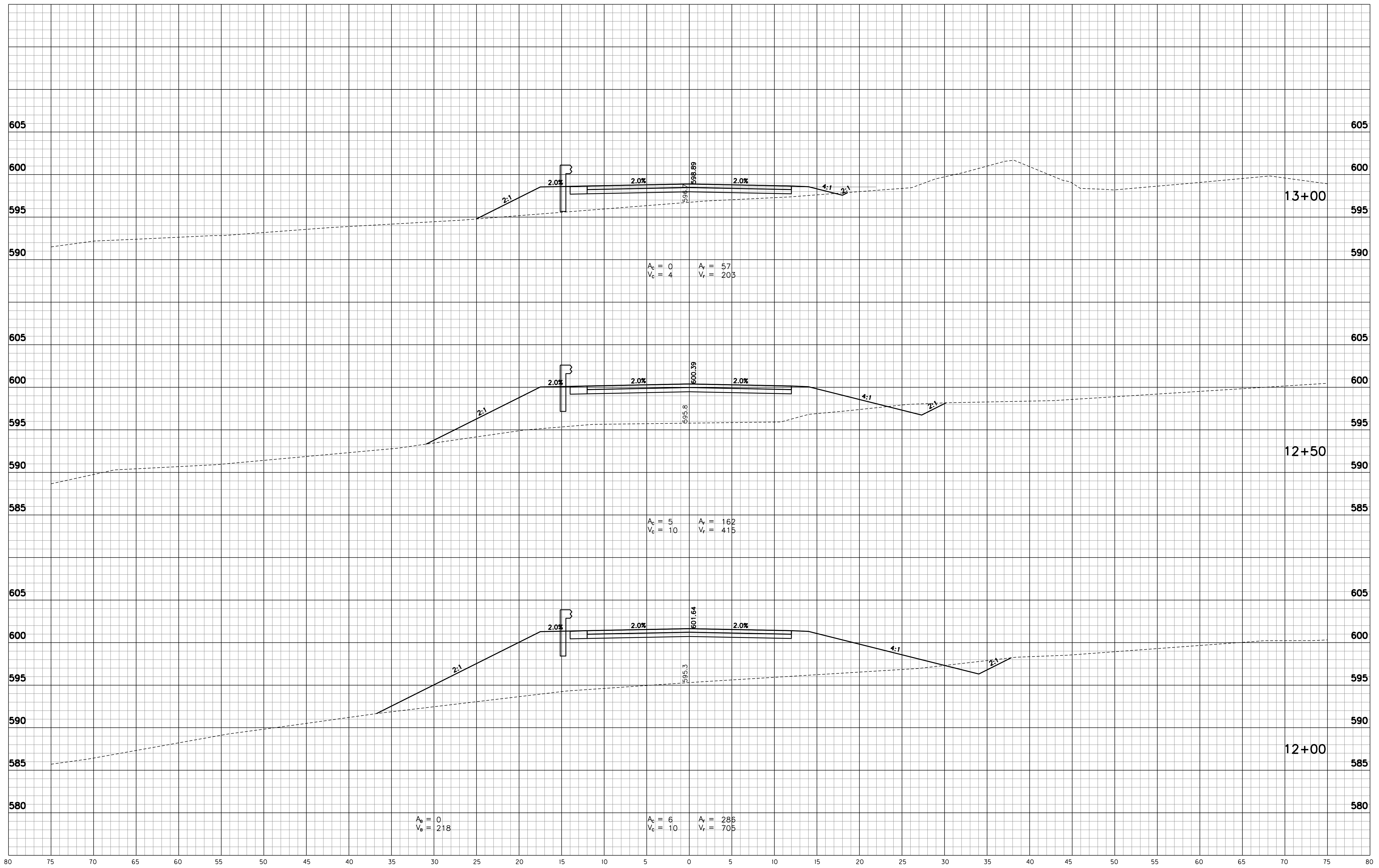
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
EROSION CONTROL PLAN SHEET
 STA. 34+00.00 TO STA. 63+00.00 "A"

HORIZONTAL SCALE	BRIDGE FILE	
1" = 75'		
VERTICAL SCALE	DESIGNATION	
N/A	N/A	
SURVEY BOOK	SHEETS	
	26	of 71
CONTRACT	PROJECT	
	ENG1901583164	



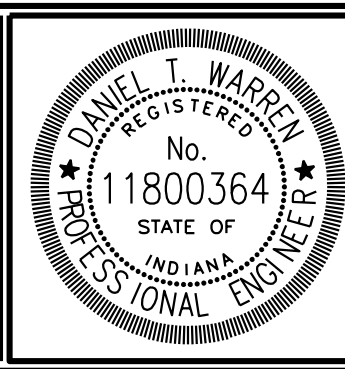
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 NGD:TLB

					RECOMMENDED FOR APPROVAL <i>D. Warren</i> DESIGN ENGINEER 11-14-18 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES		HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
						DESIGNED: DTW	DRAWN: KAM	CROSS SECTIONS STA. 10+50 TO STA. 11+50 "A"	
				CHECKED: DPL	CHECKED: DTW			SURVEY BOOK	SHEETS 27 of 71
								CONTRACT	PROJECT ENG1901583164



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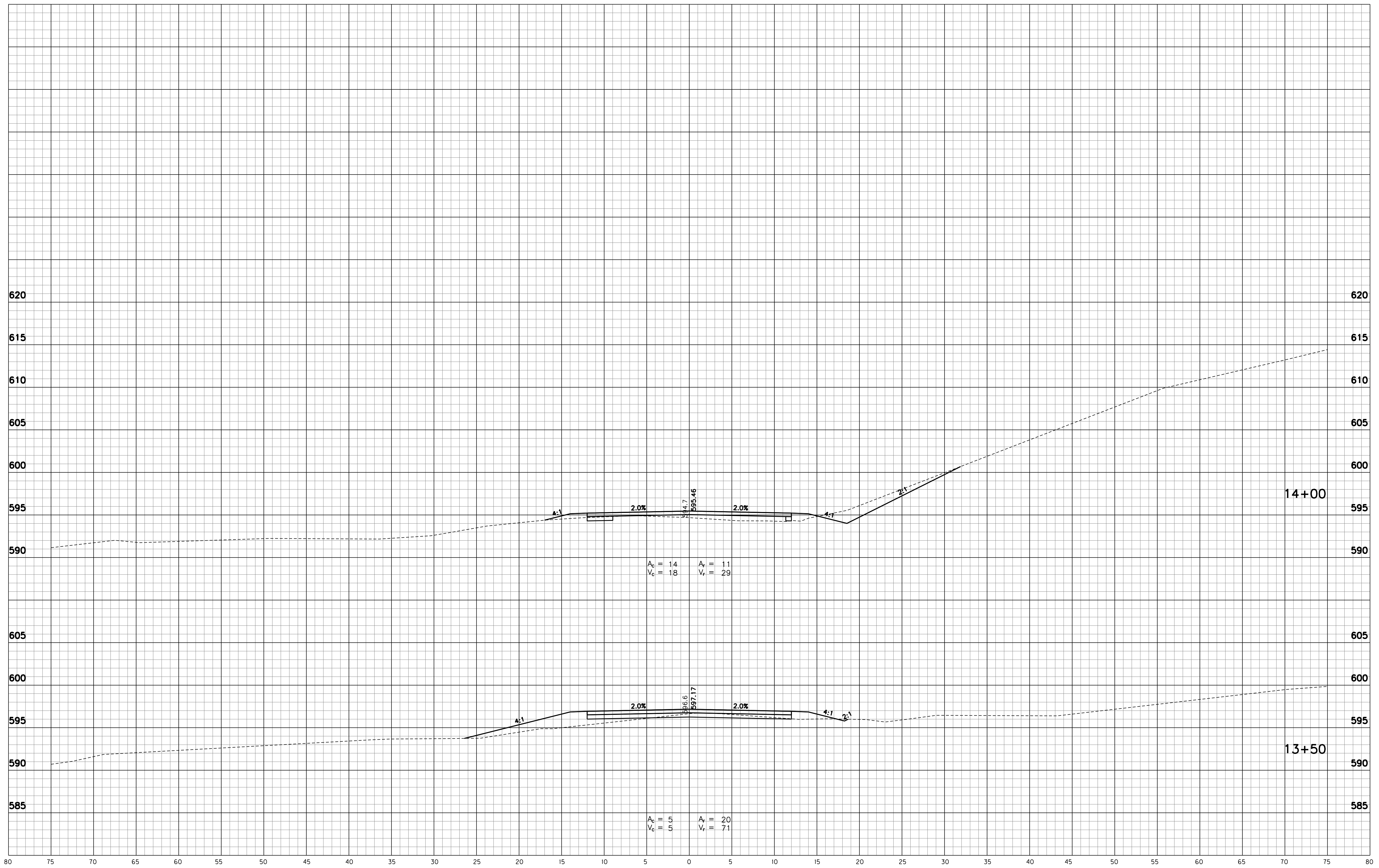
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RECOMMENDED FOR APPROVAL *D. Warren* 11-14-18 DATE
 DESIGN ENGINEER
 DESIGNED: DTW DRAWN: KAM
 CHECKED: DPL CHECKED: DTW

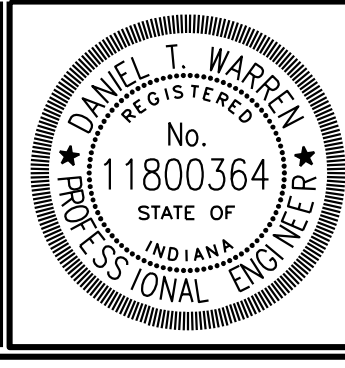
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 CROSS SECTIONS
 STA. 12+00 TO STA. 13+00 "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION N/A
SURVEY BOOK	SHEETS 28 of 71
CONTRACT	PROJECT ENG1901583164



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 11/14/2018 REVISION 3.0
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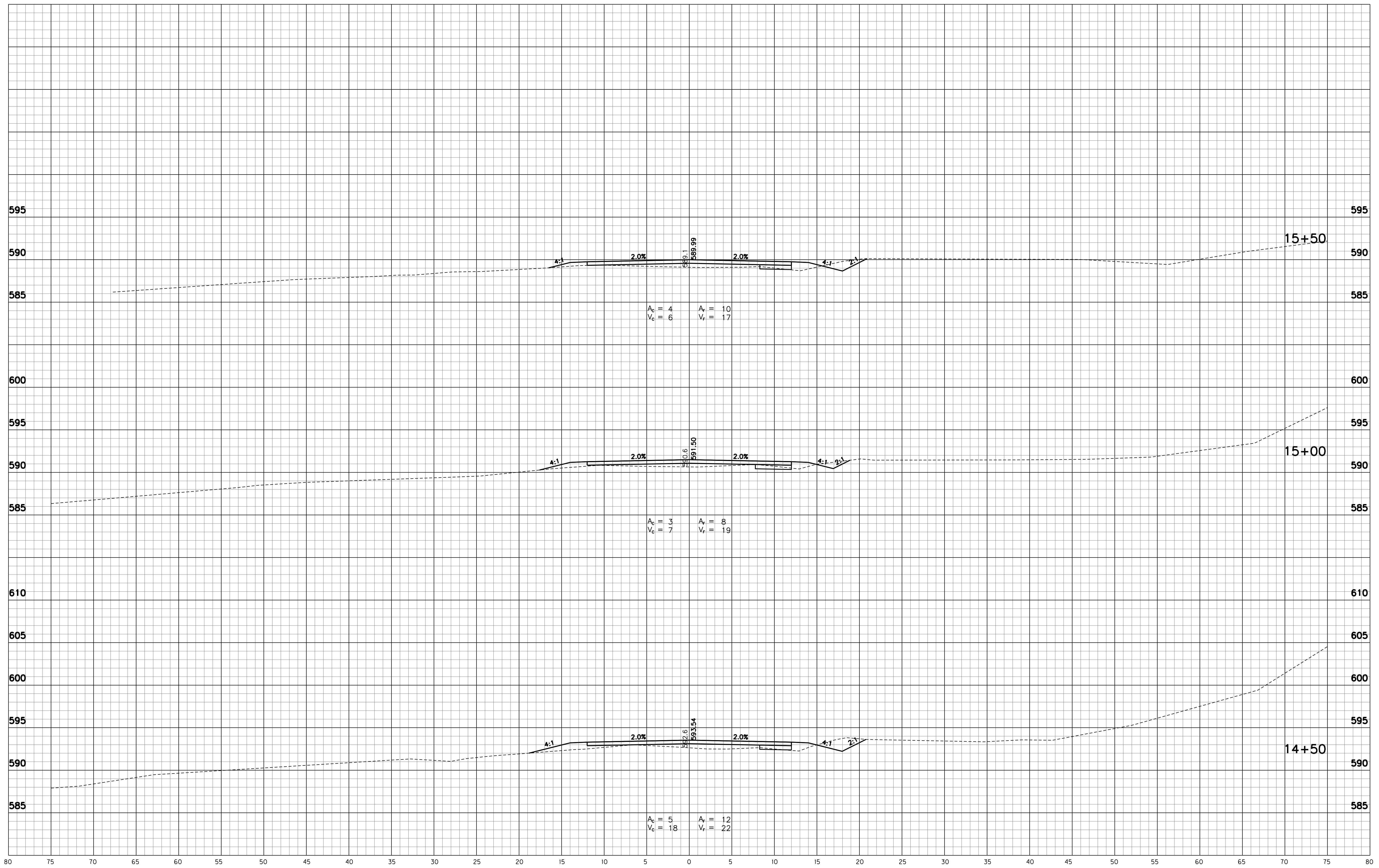
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RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	11-14-18
DESIGNED:	DTW	DATE
DRAWN:	KAM	
CHECKED:	DPL	
CHECKED:	DTW	

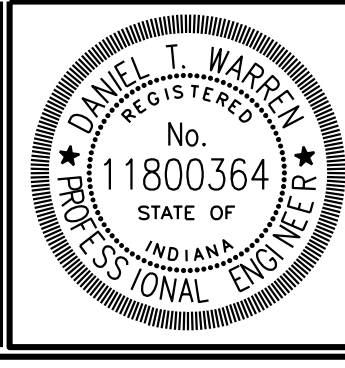
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 13+50 TO STA. 14+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
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VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	29 of 71
CONTRACT	PROJECT
	ENG1901583164



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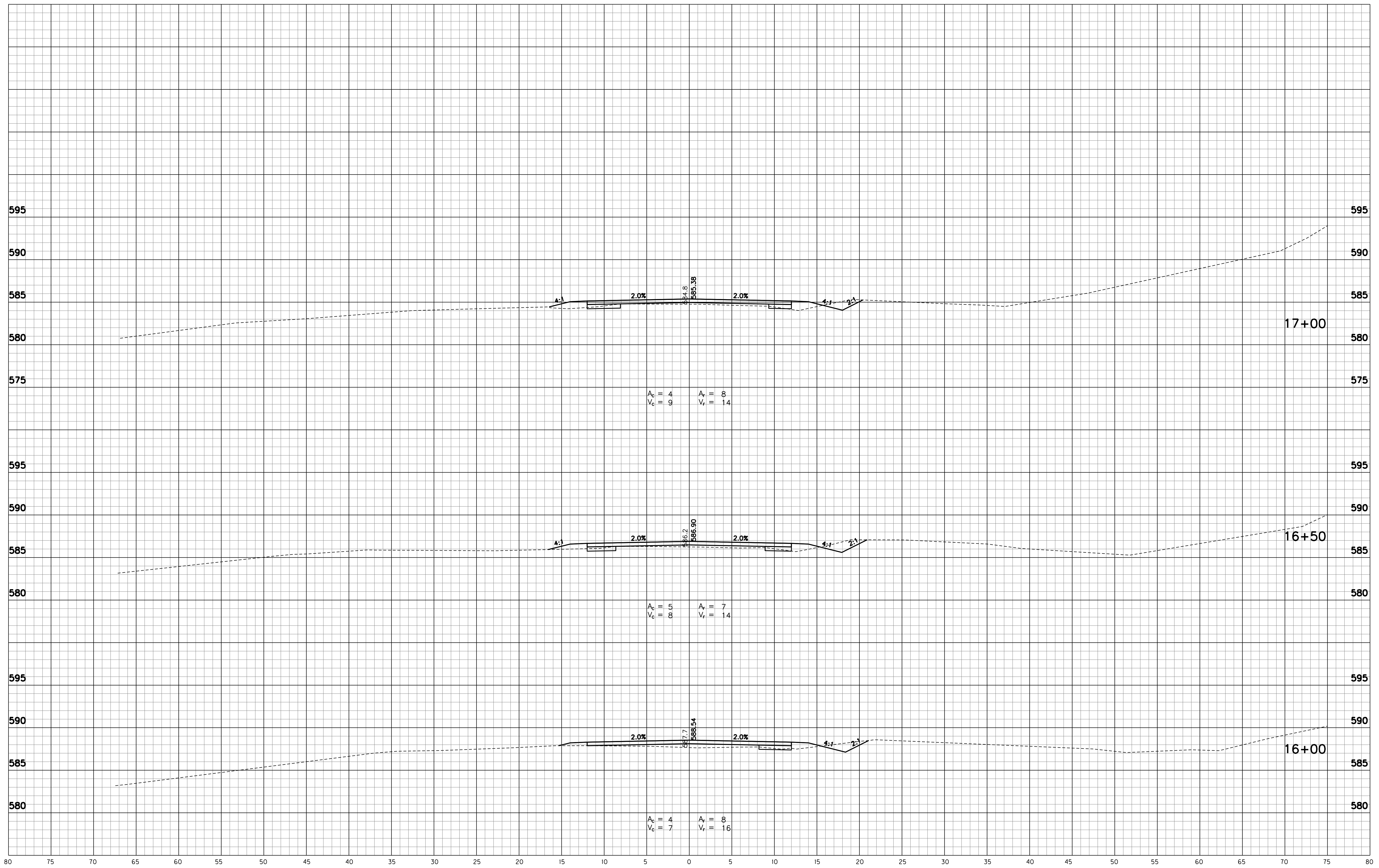
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RECOMMENDED FOR APPROVAL		<i>D. Warren</i> DESIGN ENGINEER		11-14-18 DATE
DESIGNED: DTW	DRAWN: KAM			
CHECKED: DPL	CHECKED: DTW			

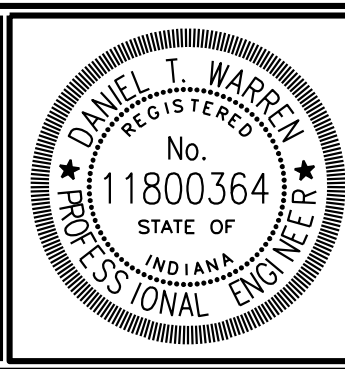
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 14+50 TO STA. 15+50 "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION N/A
SURVEY BOOK	SHEETS
CONTRACT	30 of 71
	PROJECT ENG1901583164



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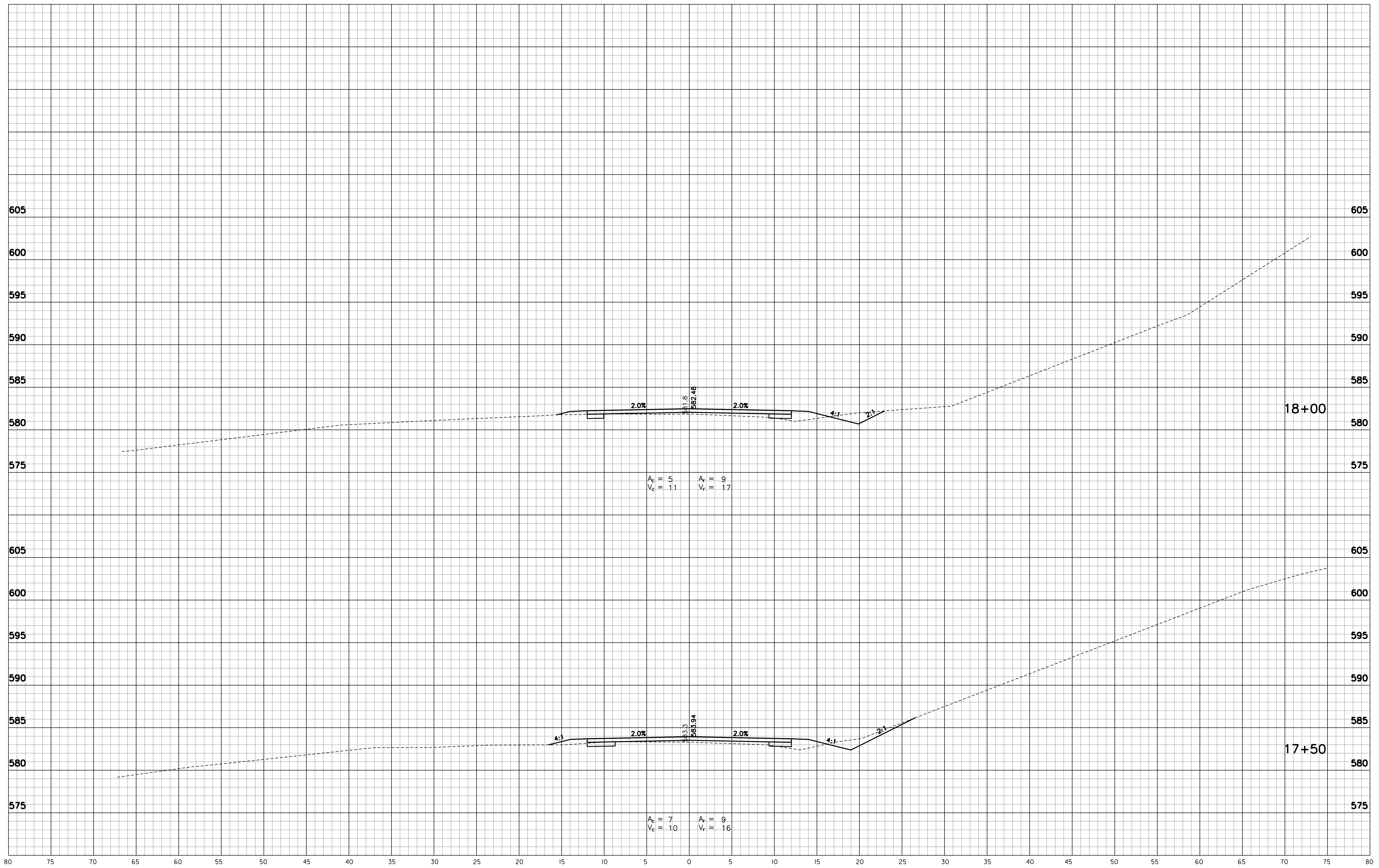
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RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	DESIGN ENGINEER	11-14-18
DESIGNED:	DTW	DRAWN:	KAM
CHECKED:	DPL	CHECKED:	DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 16+00 TO STA. 17+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	31 of 71
CONTRACT	PROJECT
	ENG1901583164



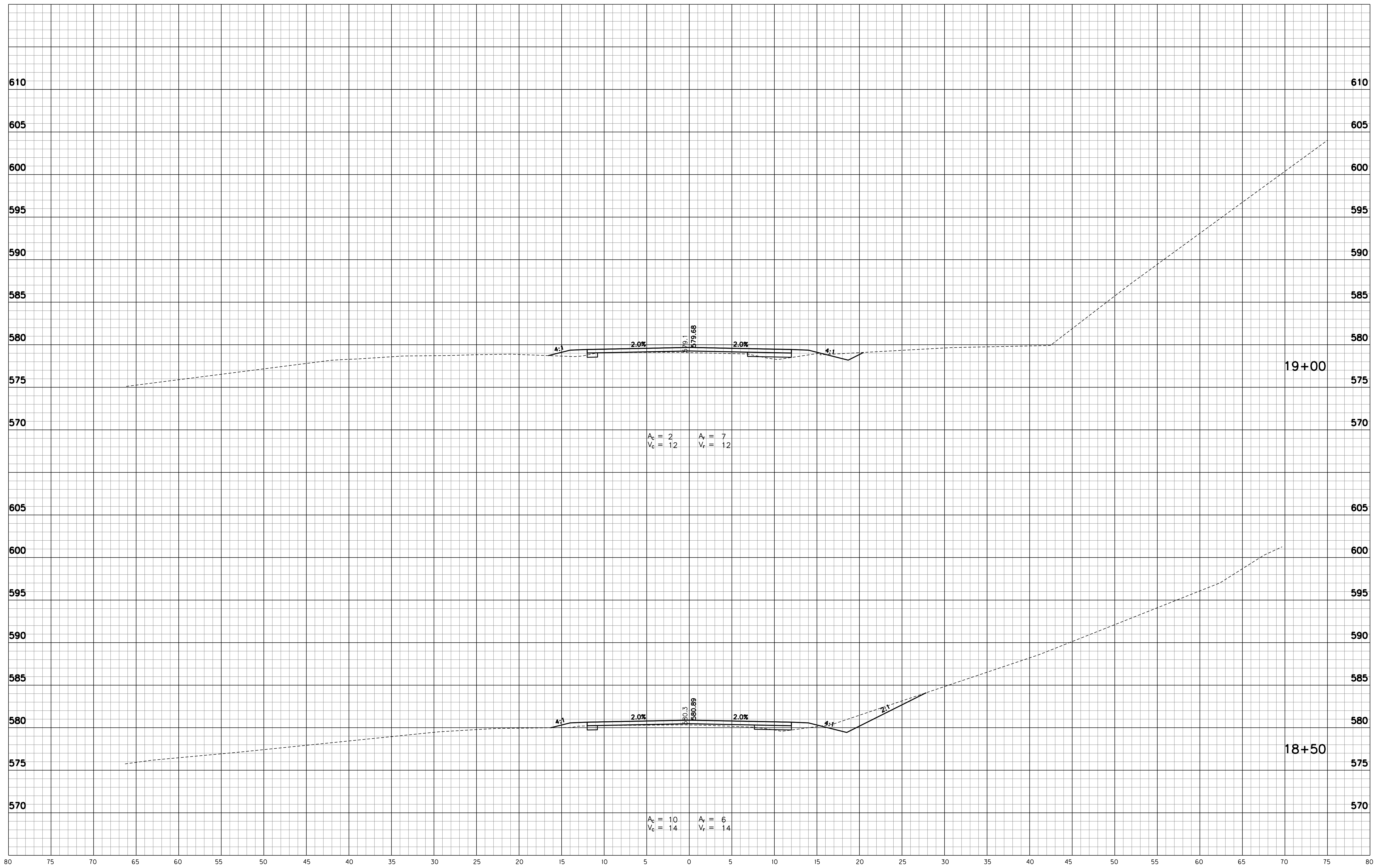
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RECOMMENDED FOR APPROVAL *Dink...* 11-14-18
 DESIGN ENGINEER DATE
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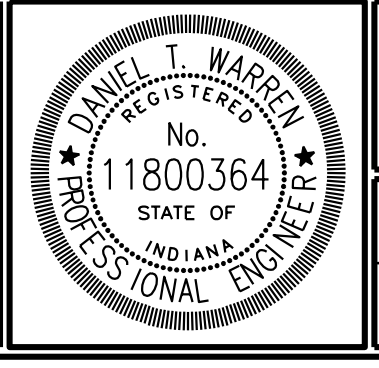
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 CROSS SECTIONS
 STA. 17+50 TO STA. 18+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	32 of 71
CONTRACT	PROJECT
	ENG1901583164



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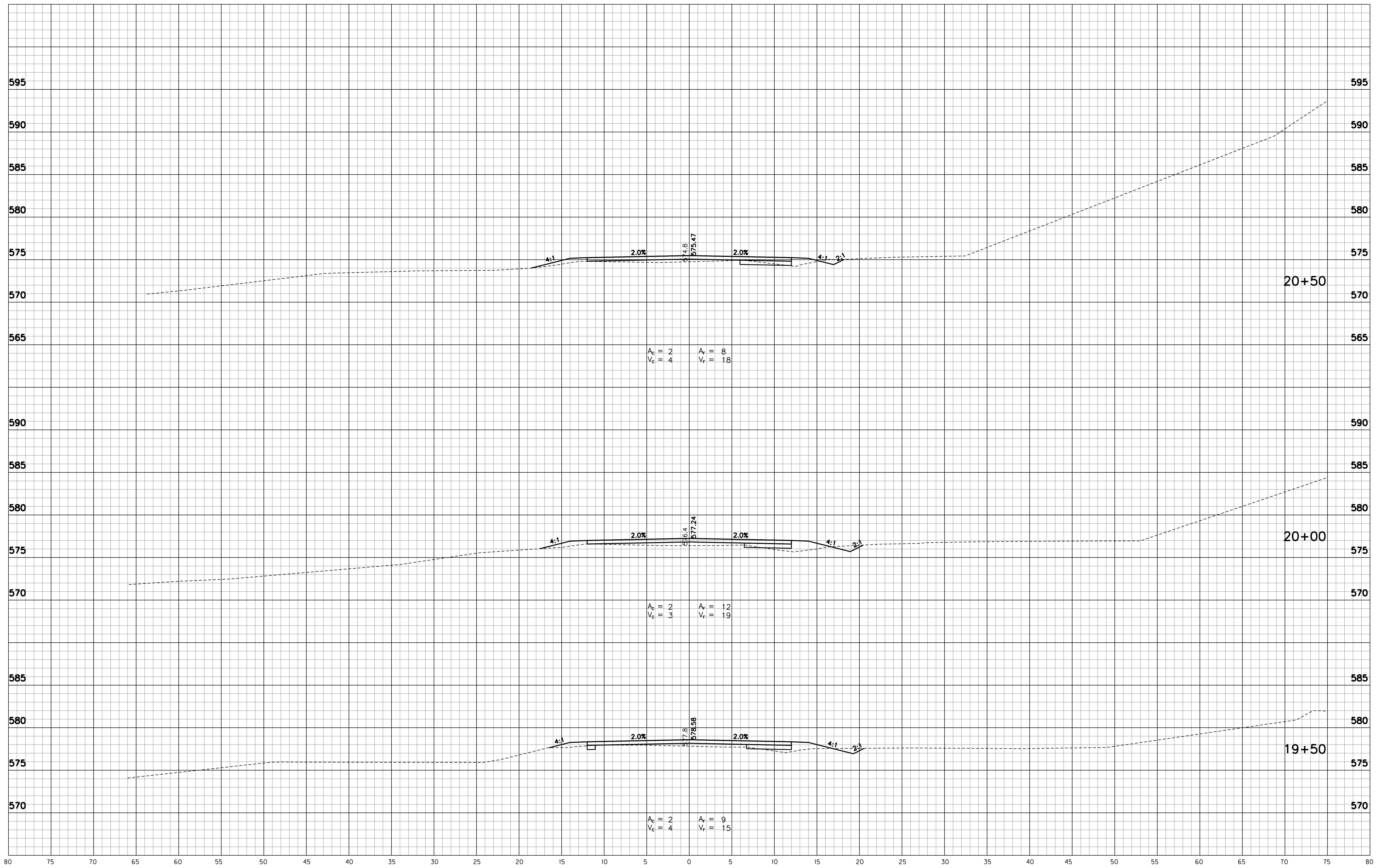
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RECOMMENDED FOR APPROVAL *Dink* 11-14-18
 DESIGN ENGINEER DATE
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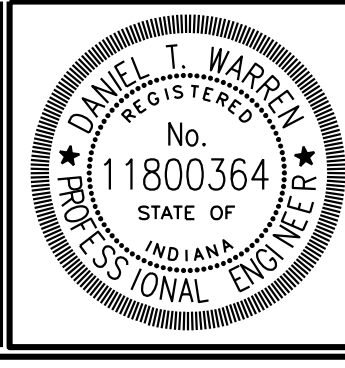
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 18+50 TO STA. 19+00 "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION N/A
SURVEY BOOK	SHEETS 33 of 71
CONTRACT	PROJECT ENG1901583164



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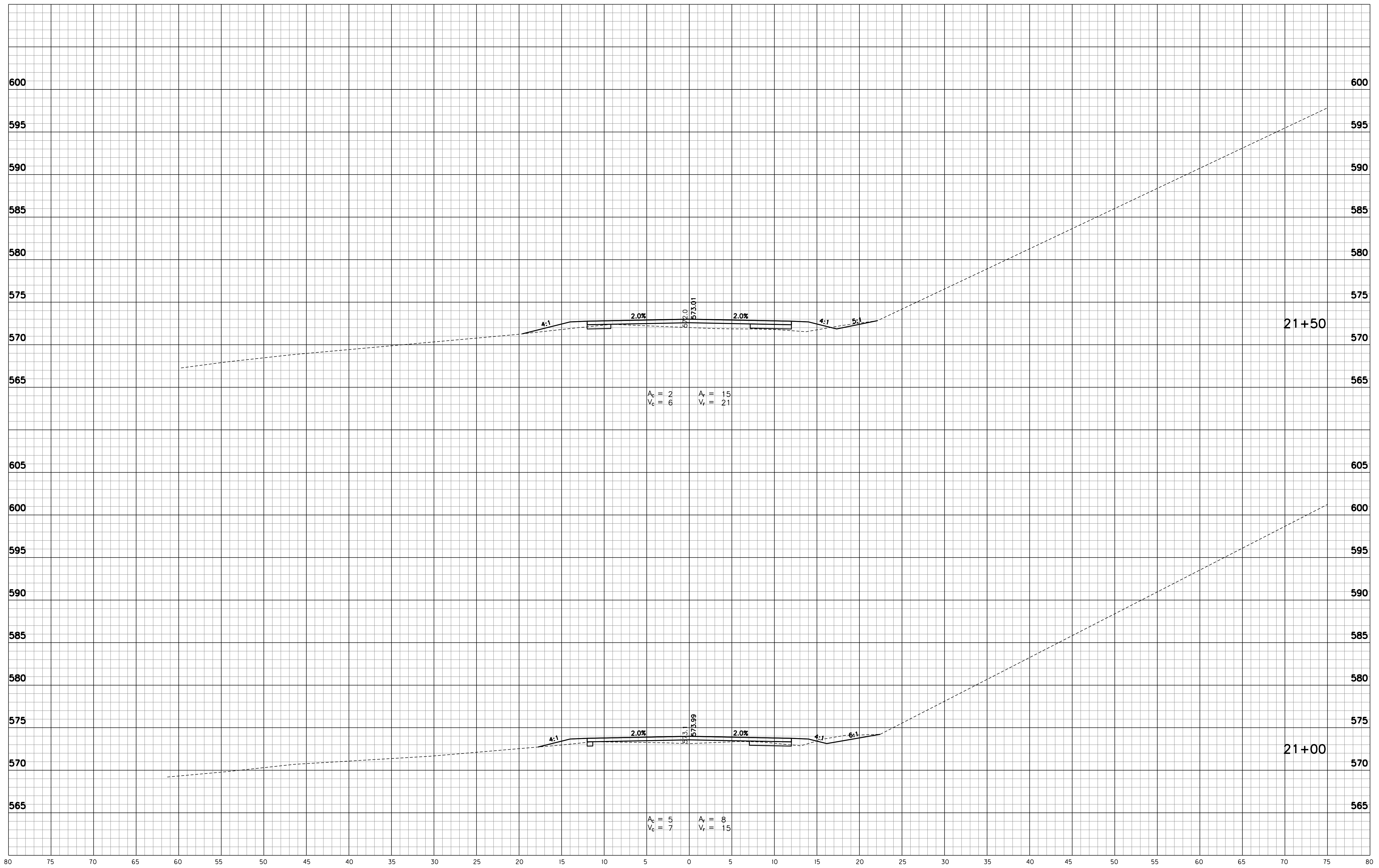
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RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	11-14-18
DESIGNED:	DTW	DRAWN:
CHECKED:	DPL	CHECKED:

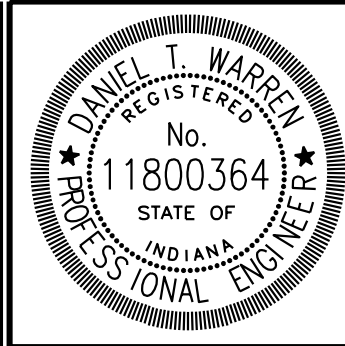
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 19+50 TO STA. 20+50 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	34 of 71
CONTRACT	PROJECT
	ENG1901583164



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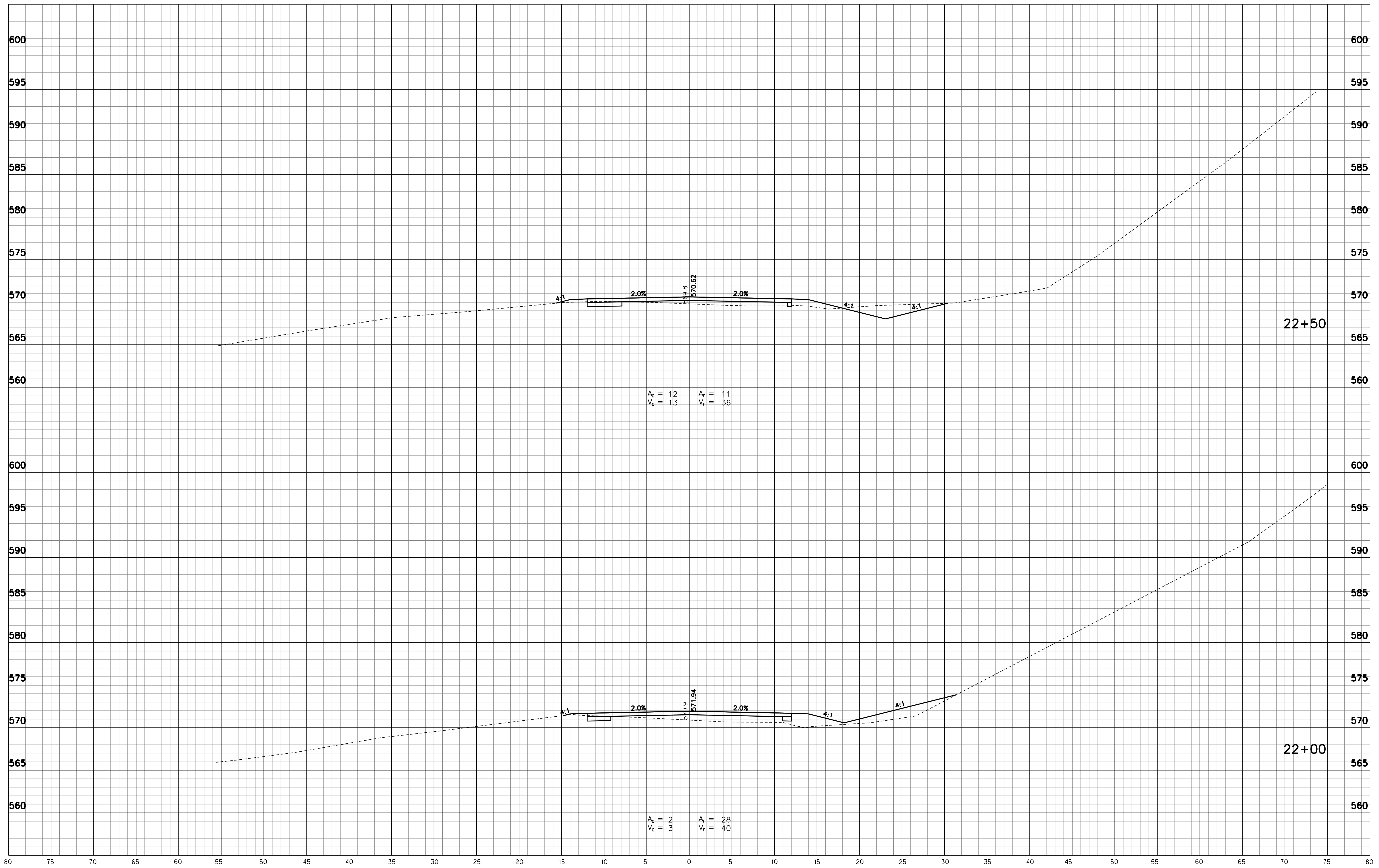
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RECOMMENDED FOR APPROVAL	<i>D. T. Warren</i>	DESIGN ENGINEER	11-14-18
DESIGNED:	DTW	DRAWN:	KAM
CHECKED:	DPL	CHECKED:	DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 21+00 TO STA. 21+50 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	35 of 71
CONTRACT	PROJECT
	ENG1901583164

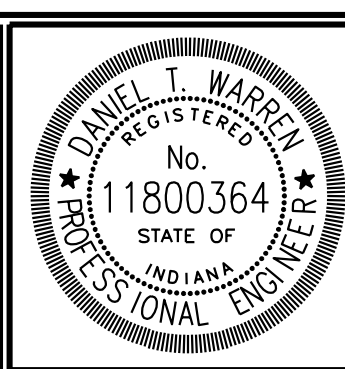


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 $V_c = 13$ $V_r = 36$

$A_c = 2$ $A_r = 28$
 $V_c = 3$ $V_r = 40$

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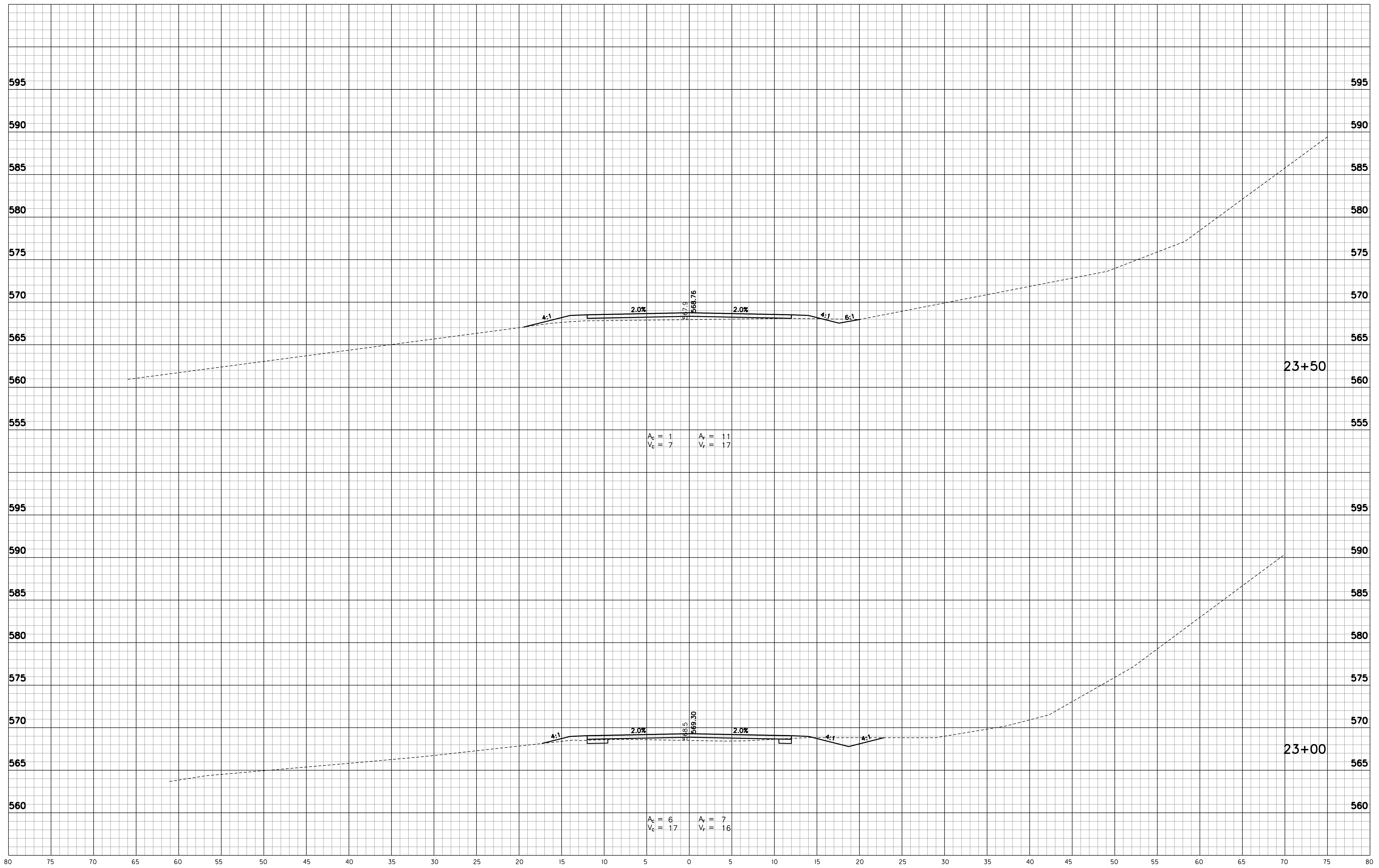
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RECOMMENDED FOR APPROVAL *D. Warren* 11-14-18
 DESIGN ENGINEER DATE
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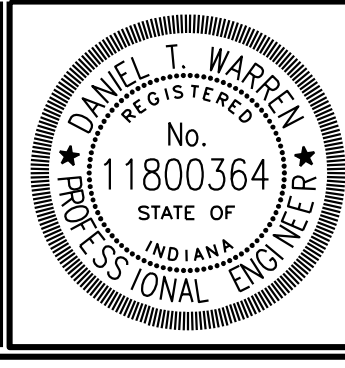
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 CROSS SECTIONS
 STA. 22+00 TO STA. 22+50 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	36 of 71
CONTRACT	PROJECT
	ENG1901583164



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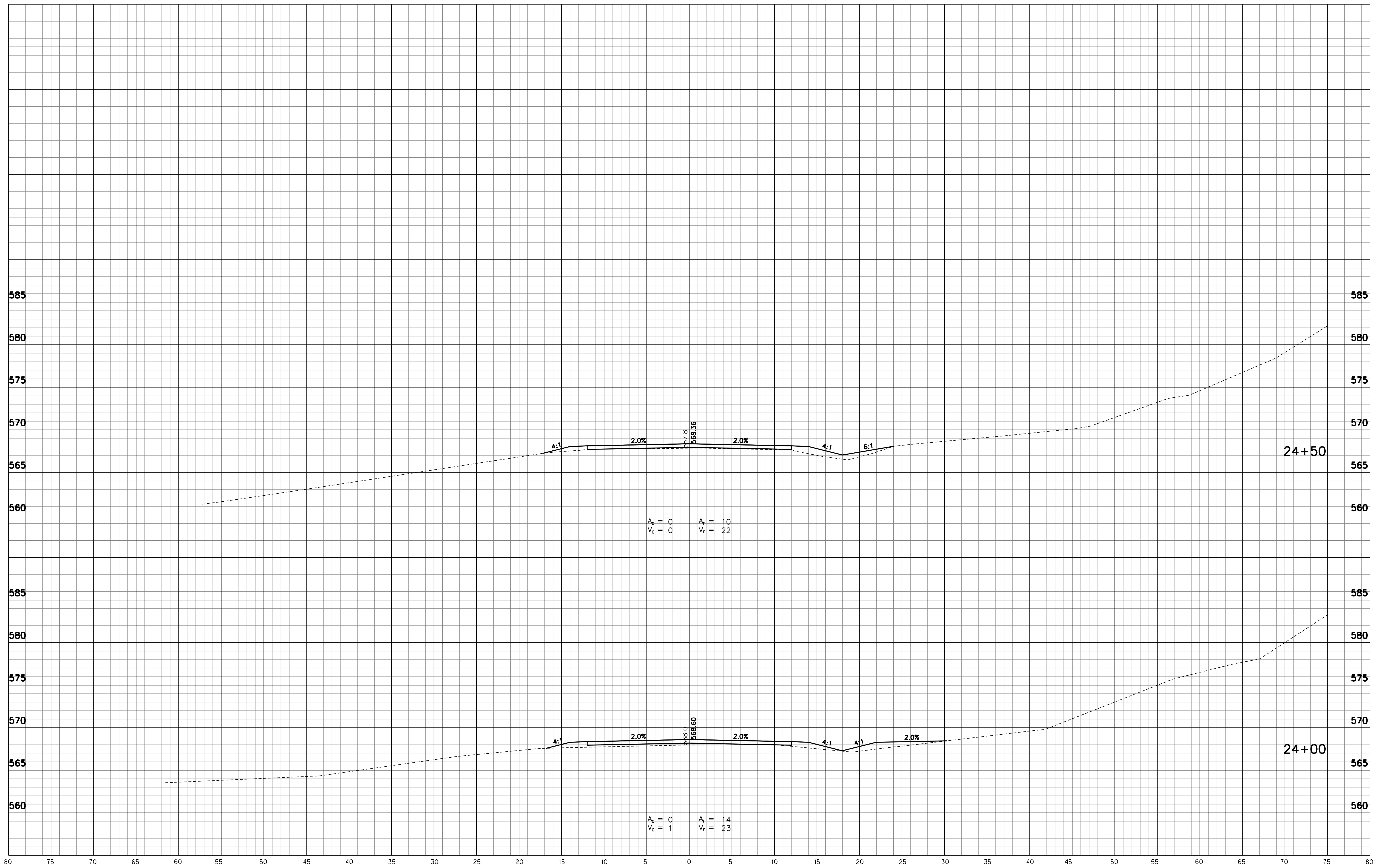
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RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	11-14-18
DESIGNED:	DTW	DATE
DRAWN:	KAM	
CHECKED:	DPL	
CHECKED:	DTW	

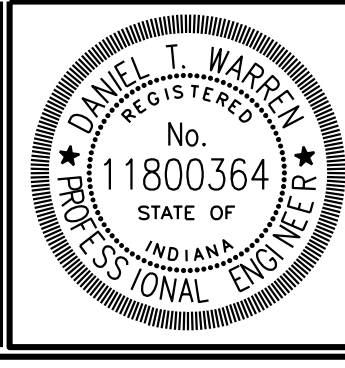
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 23+00 TO STA. 23+50 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	37 of 71
CONTRACT	PROJECT
	ENG1901583164



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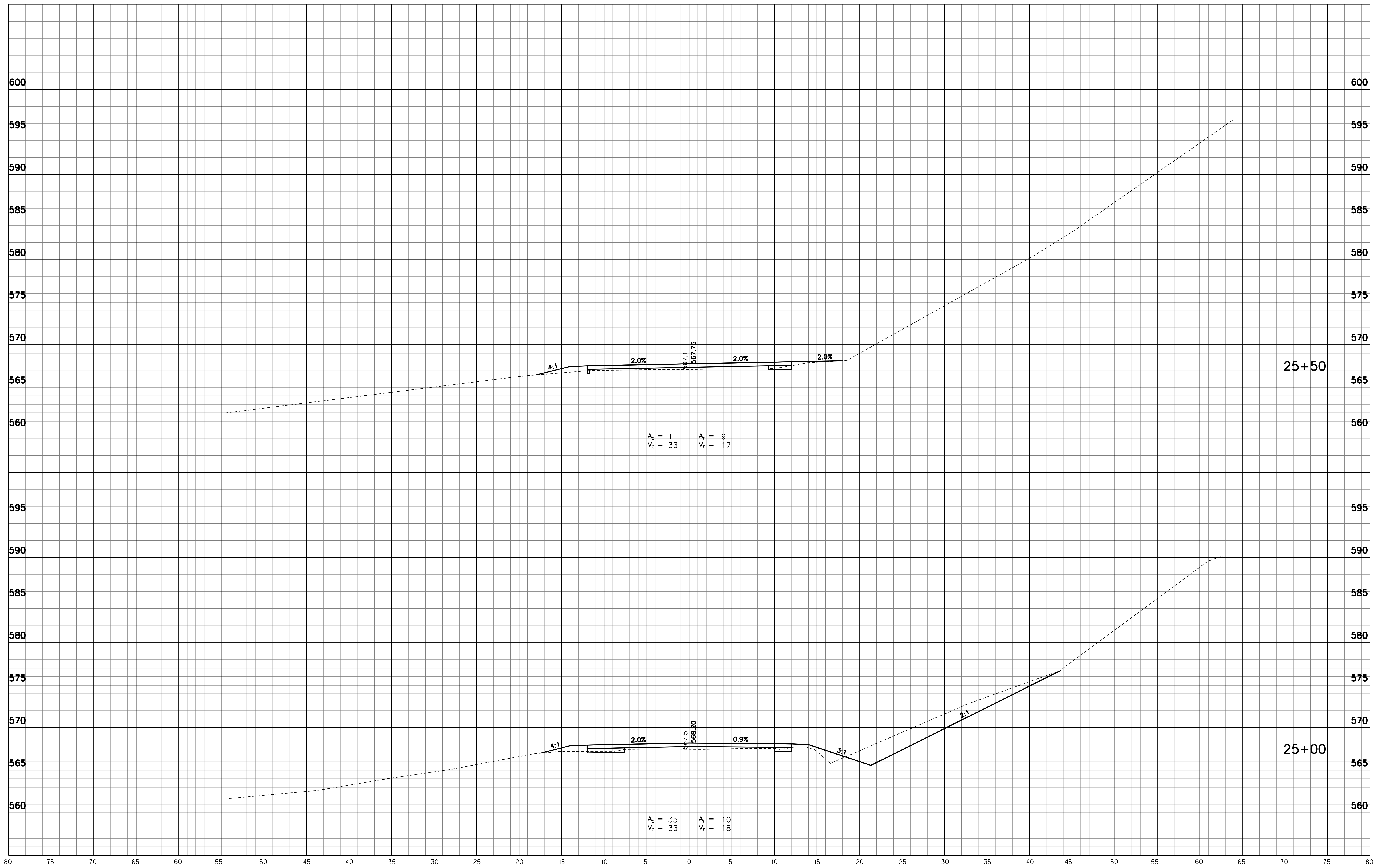
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RECOMMENDED FOR APPROVAL	<i>Dink</i>	DESIGN ENGINEER	11-14-18
DESIGNED:	DTW	DRAWN:	KAM
CHECKED:	DPL	CHECKED:	DTW

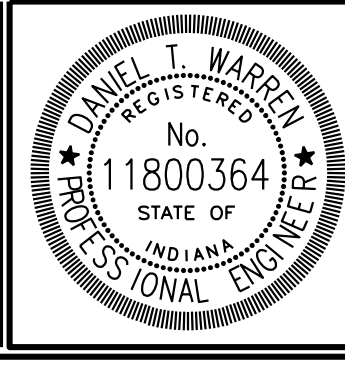
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 24+00 TO STA. 24+50 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	38 of 71
CONTRACT	PROJECT
	ENG1901583164



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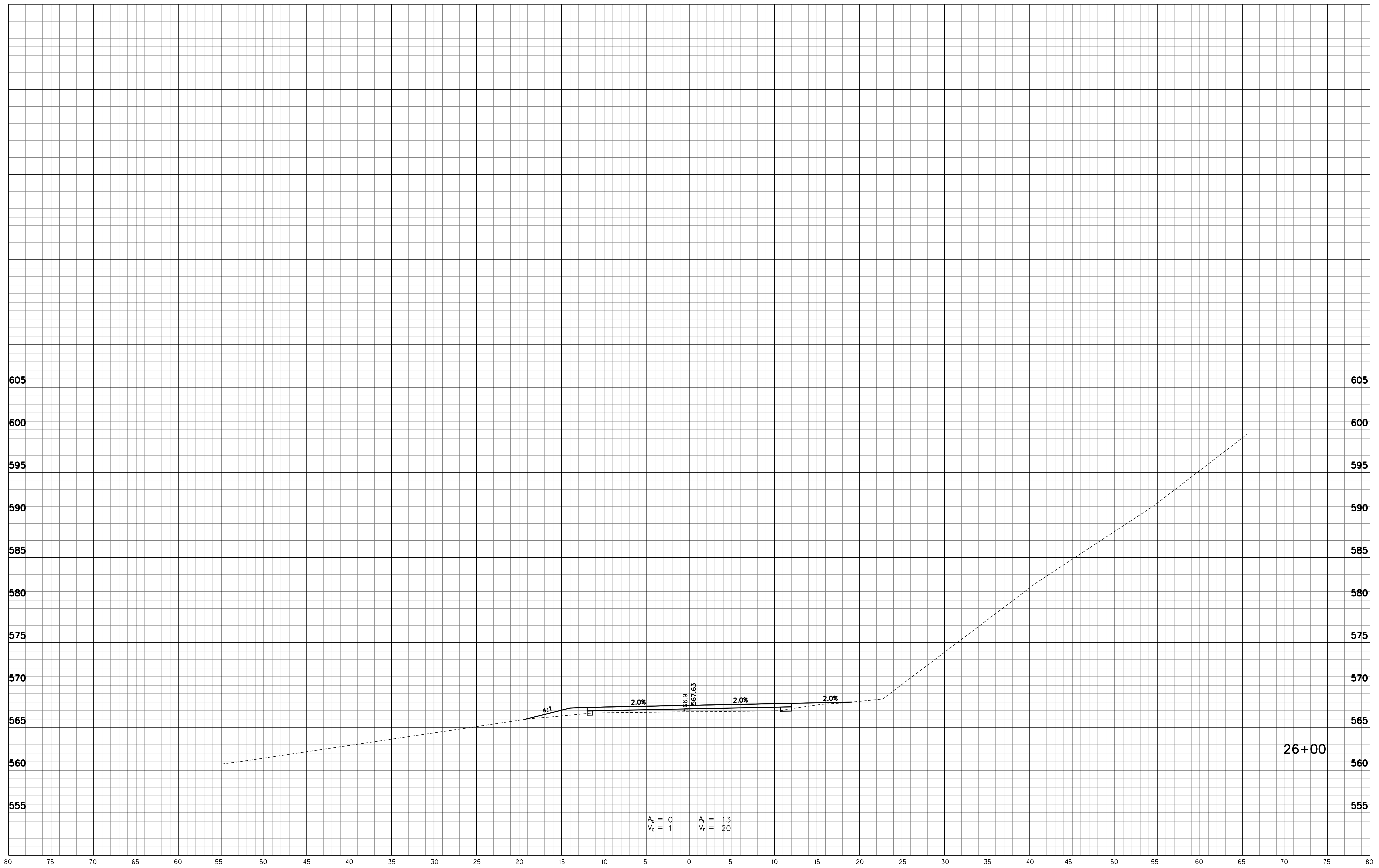


RECOMMENDED FOR APPROVAL		 DESIGN ENGINEER		11-14-18	DATE
DESIGNED:	DTW	DRAWN:	KAM		
CHECKED:	DPL	CHECKED:	DTW		

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 25+00 TO STA. 25+50 "A"

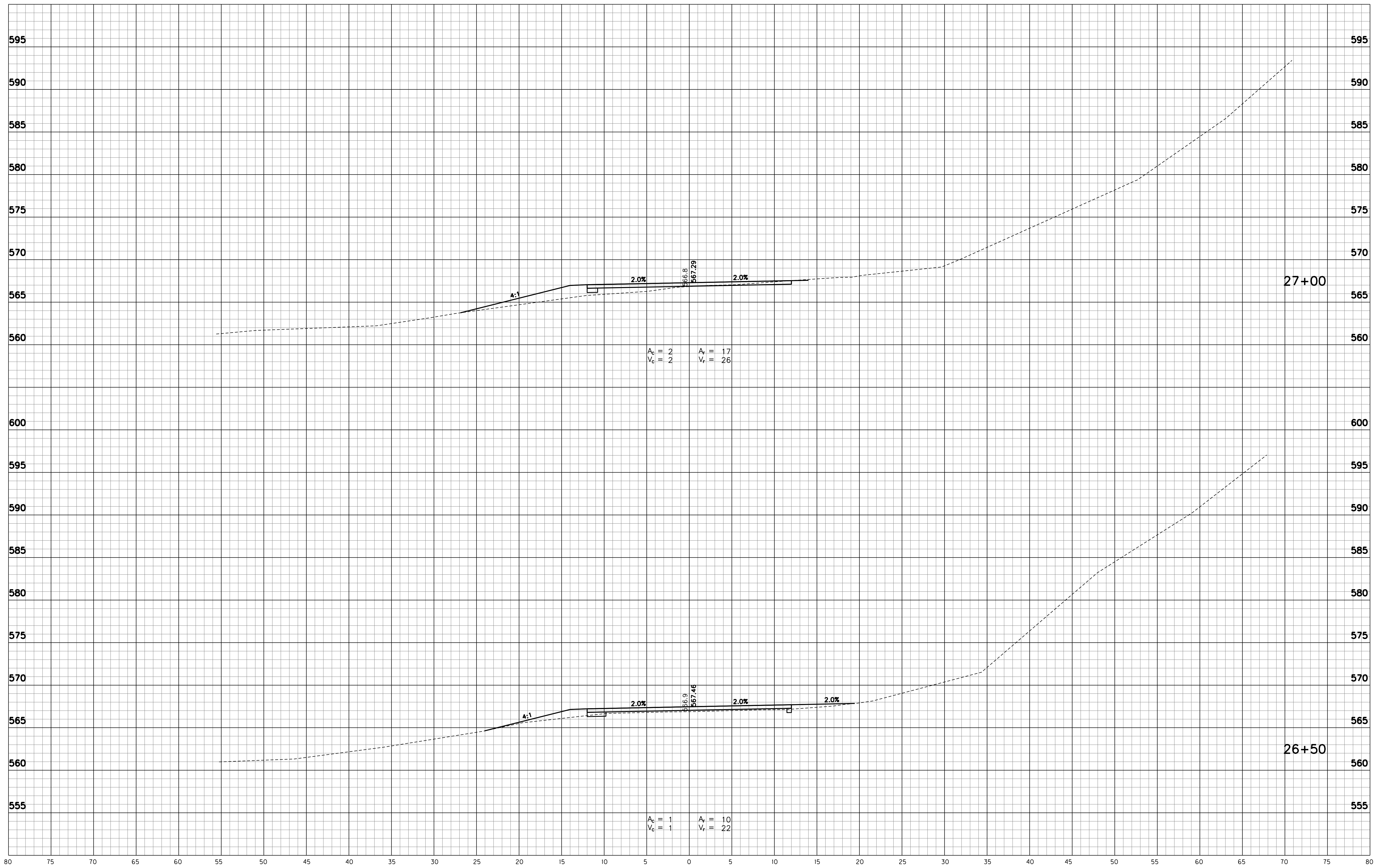
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1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	39 of 71
CONTRACT	PROJECT
	ENG1901583164

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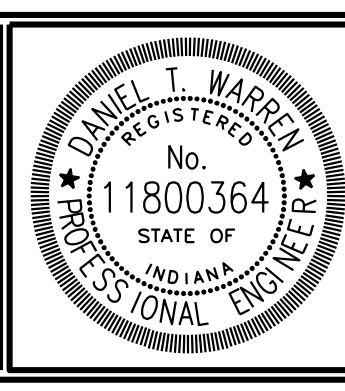
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 $V_c = 1$ $V_r = 20$

					RECOMMENDED FOR APPROVAL <i>D. Warren</i> DESIGN ENGINEER 11-14-18 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES CROSS SECTIONS STA. 26+00 TO STA. 26+00 "A"	HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
					DESIGNED: DTW DRAWN: KAM CHECKED: DPL CHECKED: DTW		VERTICAL SCALE 1" = 5' SURVEY BOOK SHEETS 40 of 71 CONTRACT PROJECT ENG1901583164	



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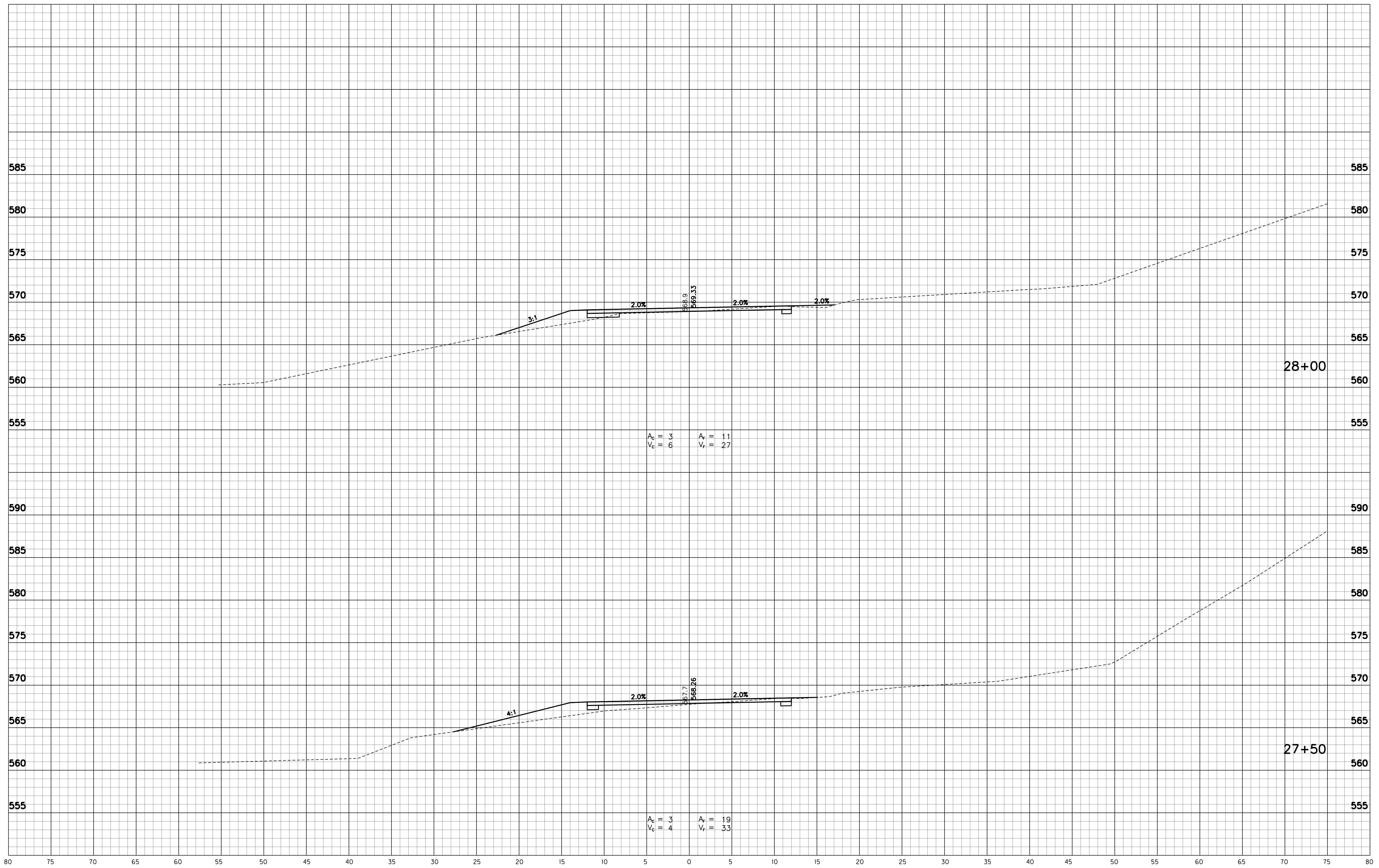
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RECOMMENDED FOR APPROVAL		 DESIGN ENGINEER		11-14-18	DATE
DESIGNED:	DTW	DRAWN:	KAM		
CHECKED:	DPL	CHECKED:	DTW		

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 26+50 TO STA. 27+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	41 of 71
CONTRACT	PROJECT
	ENG1901583164

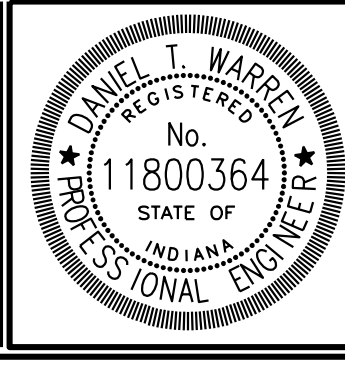


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 $V_c = 6$ $V_r = 27$

$A_c = 3$ $A_r = 19$
 $V_c = 4$ $V_r = 33$

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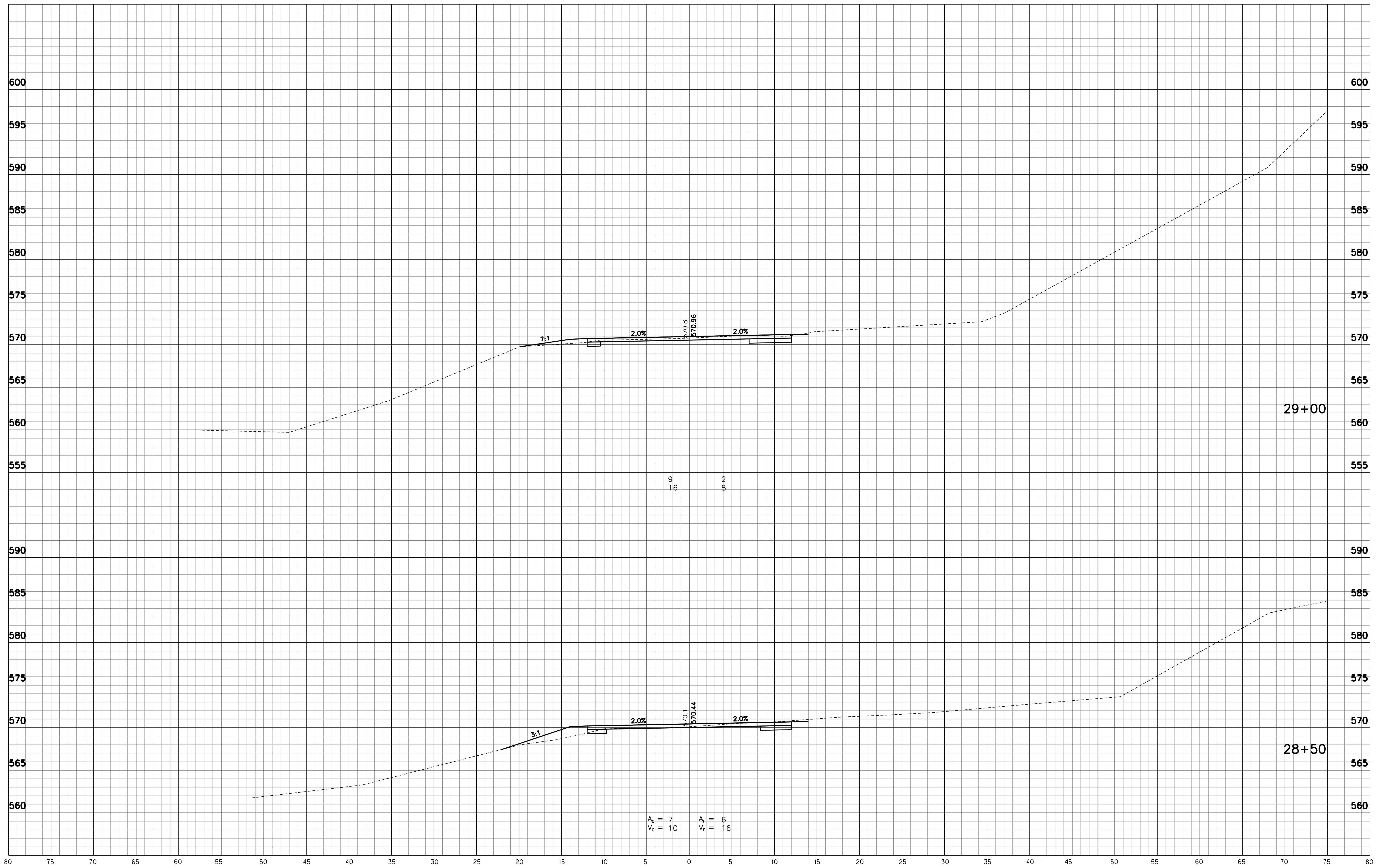
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RECOMMENDED FOR APPROVAL *D. Warren* 11-14-18 DATE
 DESIGN ENGINEER
 DESIGNED: DTW DRAWN: KAM
 CHECKED: DPL CHECKED: DTW

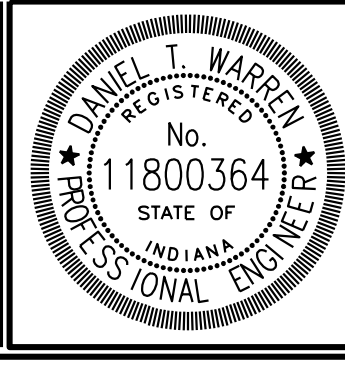
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 CROSS SECTIONS
 STA. 27+50 TO STA. 28+00 "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION N/A
SURVEY BOOK	SHEETS 42 of 71
CONTRACT	PROJECT ENG1901583164



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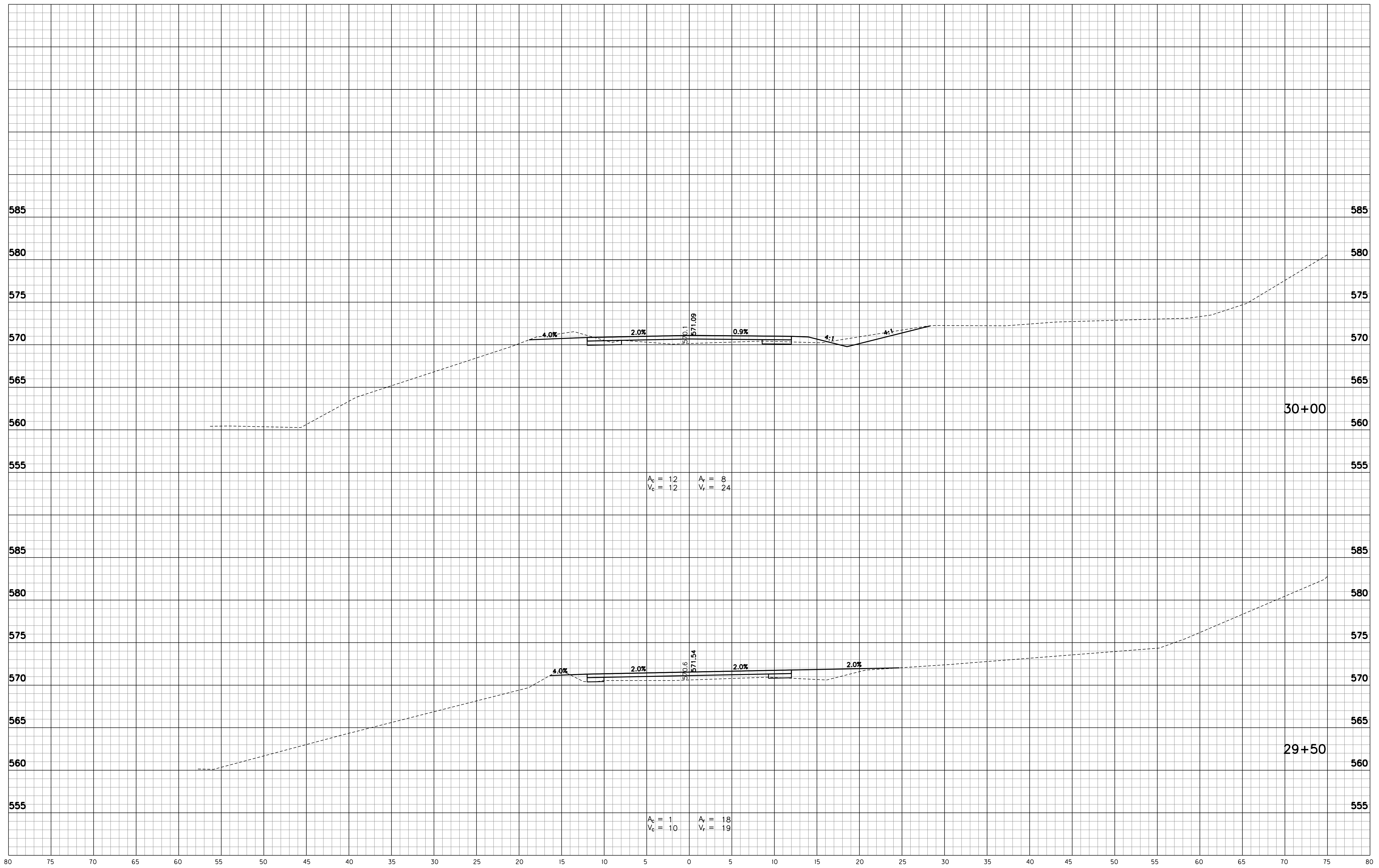
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RECOMMENDED FOR APPROVAL	<i>Dink</i>	DESIGN ENGINEER	11-14-18	DATE
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CHECKED:	DPL	CHECKED:	DTW	

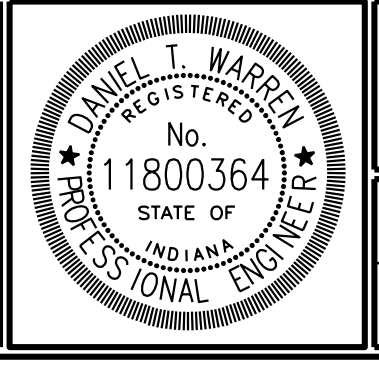
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 28+50 TO STA. 29+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	43 of 71
CONTRACT	PROJECT
	ENG1901583164



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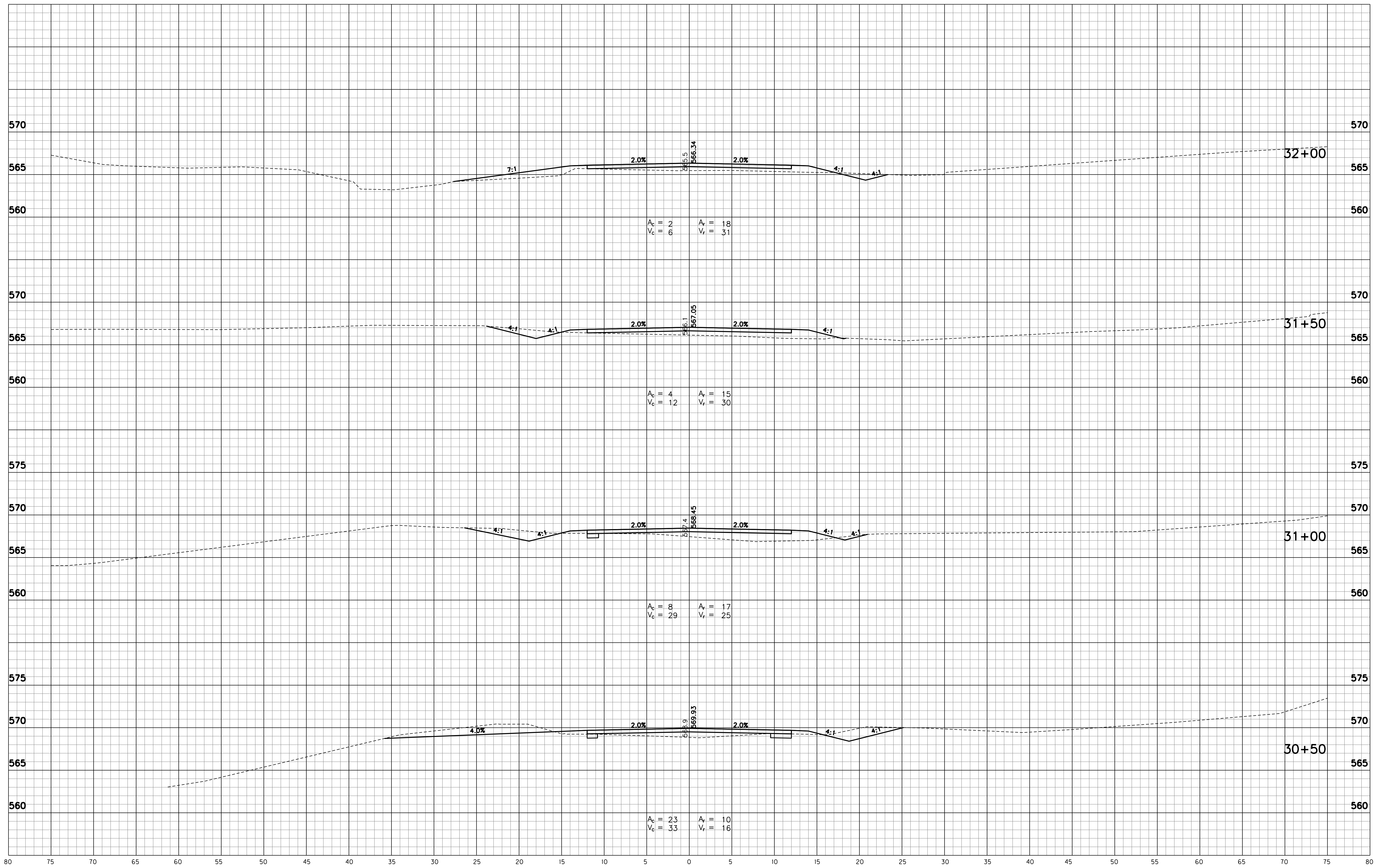
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CHECKED:	DPL	CHECKED:
		DTW

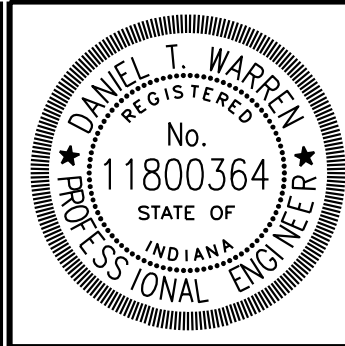
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 29+50 TO STA. 30+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
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VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	44 of 71
CONTRACT	PROJECT
	ENG1901583164



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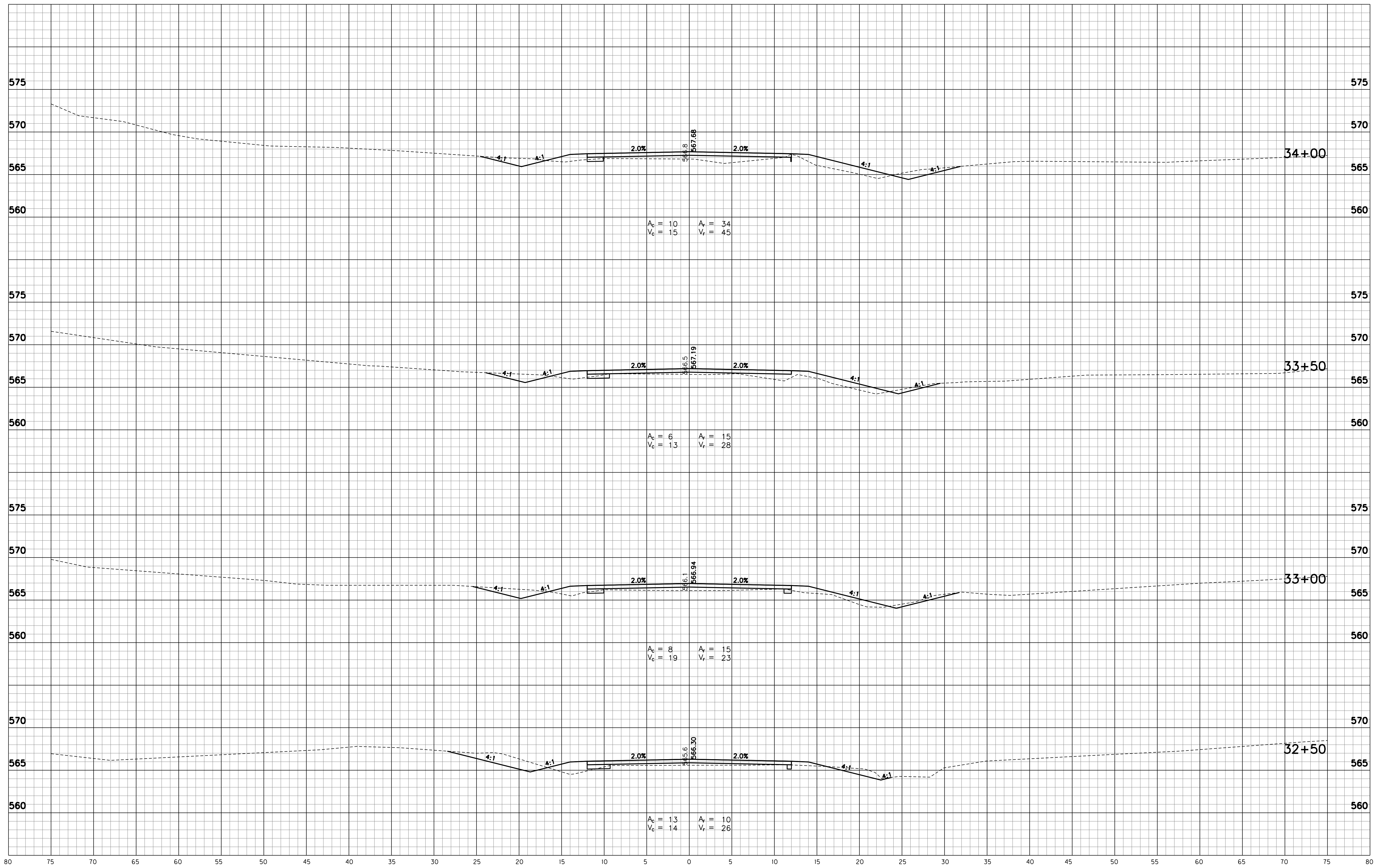
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RECOMMENDED FOR APPROVAL	<i>Dink...</i>	DESIGN ENGINEER	11-14-18	DATE
DESIGNED:	DTW	DRAWN:	KAM	
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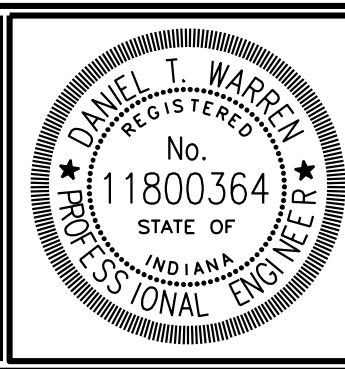
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 30+50 TO STA. 32+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
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VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	45 of 71
CONTRACT	PROJECT
	ENG1901583164



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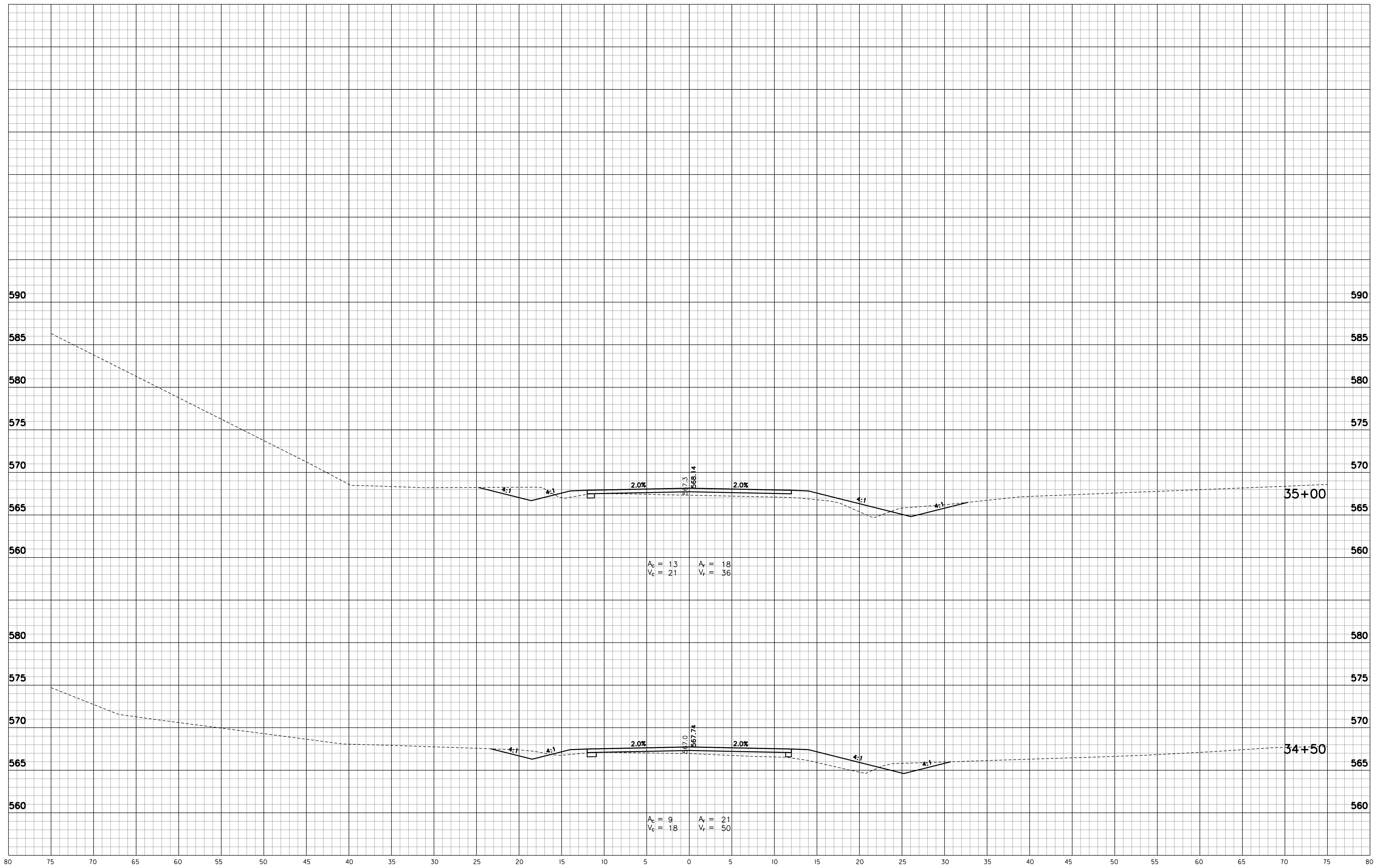
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DESIGNED:	DTW	DRAWN:	KAM
CHECKED:	DPL	CHECKED:	DTW

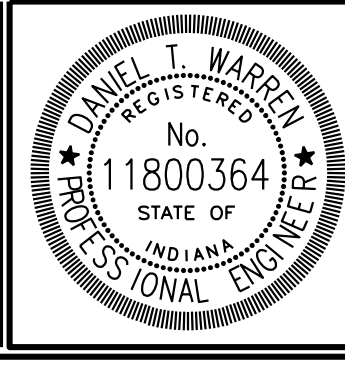
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 32+50 TO STA. 34+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	46 of 71
CONTRACT	PROJECT
	ENG1901583164



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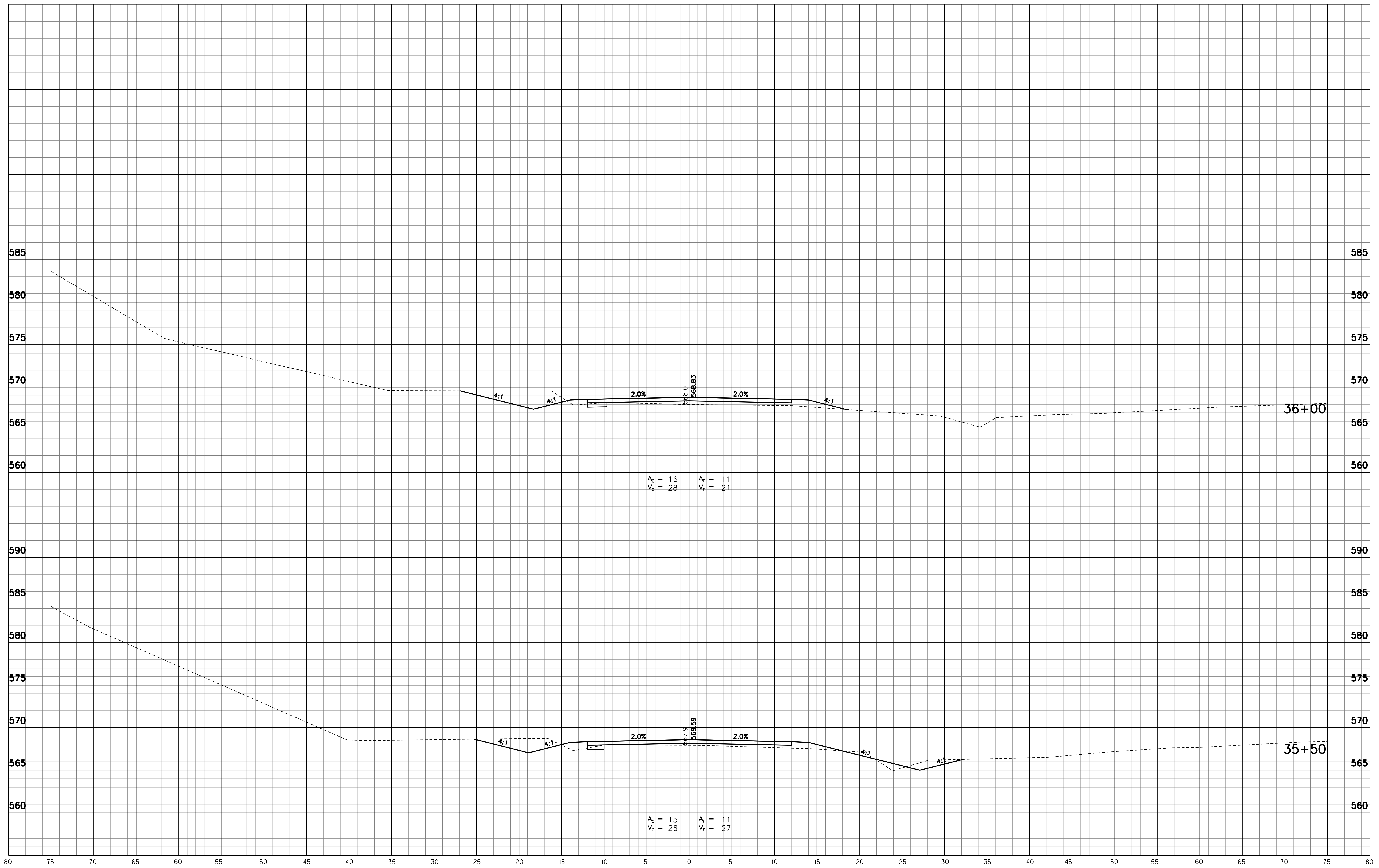
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RECOMMENDED FOR APPROVAL	<i>Dink...</i>	DESIGN ENGINEER	11-14-18	DATE
DESIGNED:	DTW	DRAWN:	KAM	
CHECKED:	DPL	CHECKED:	DTW	

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 34+50 TO STA. 35+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	47 of 71
CONTRACT	PROJECT
	ENG1901583164



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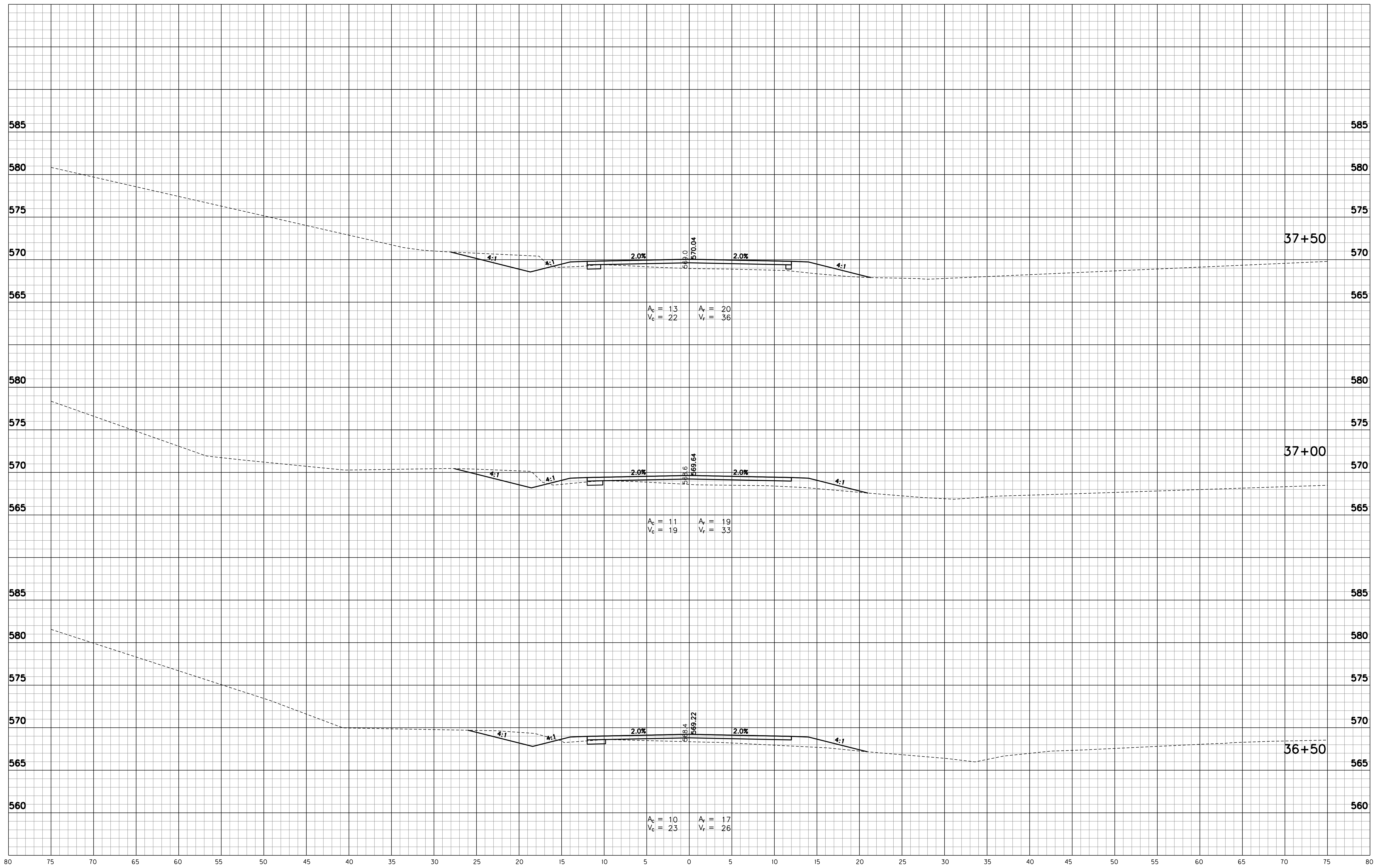
DANIEL T. WARREN
REGISTERED
No. 11800364
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL *D. Warren* 11-14-18
DESIGN ENGINEER DATE

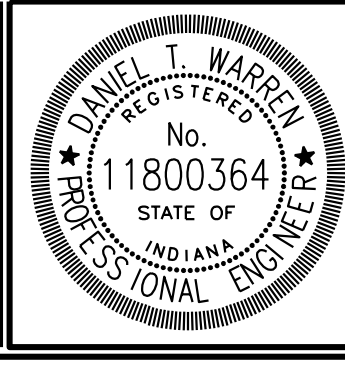
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CHECKED: DPL CHECKED: DTW

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 35+50 TO STA. 36+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	48 of 71
CONTRACT	PROJECT
	ENG1901583164



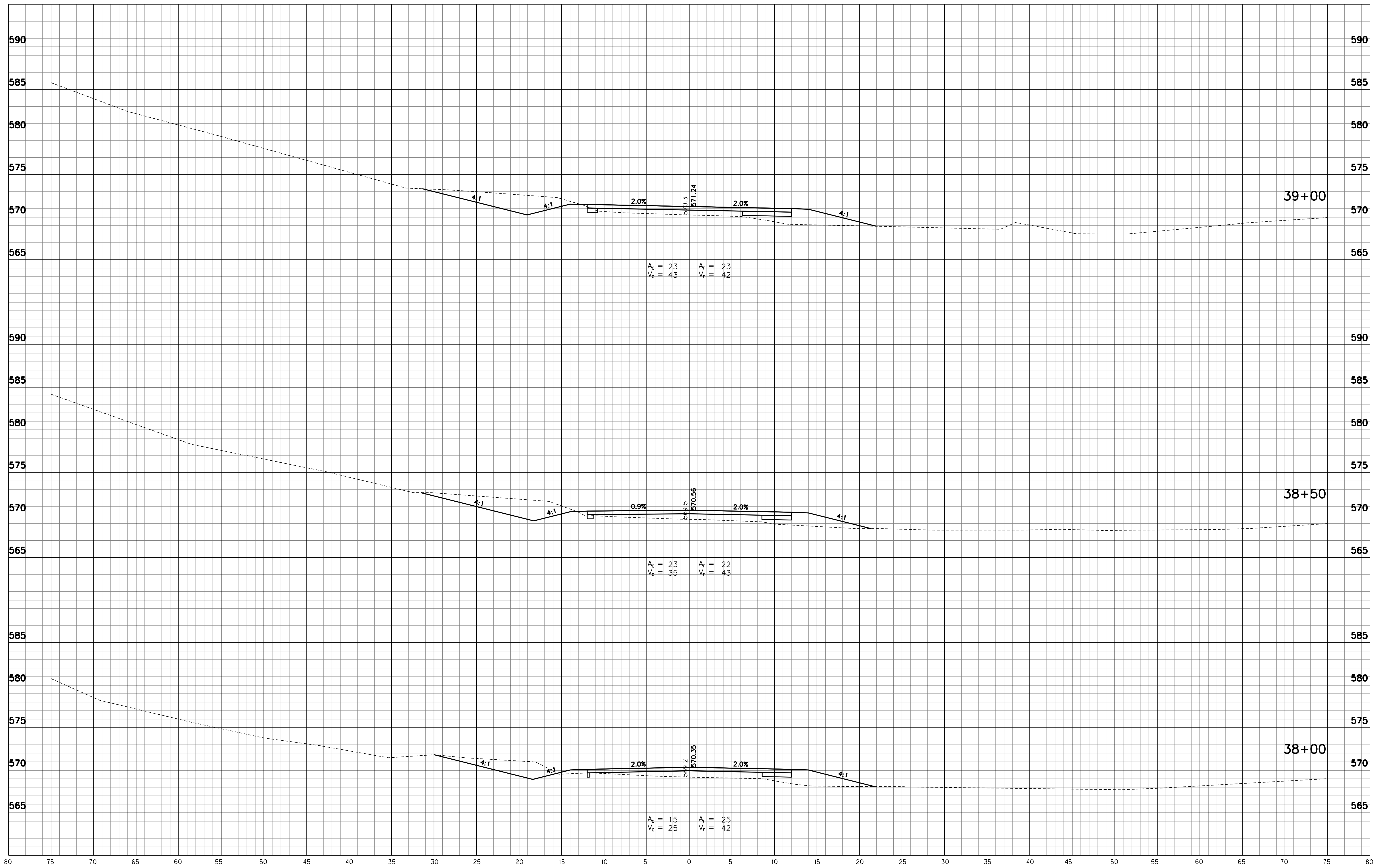
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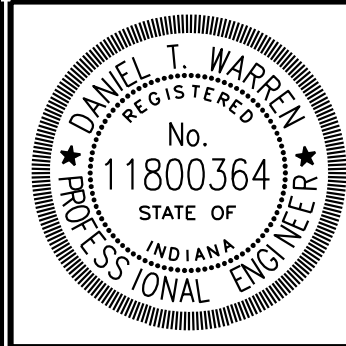
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DESIGNED:	DTW	DATE
DRAWN:	KAM	
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CHECKED:	DTW	

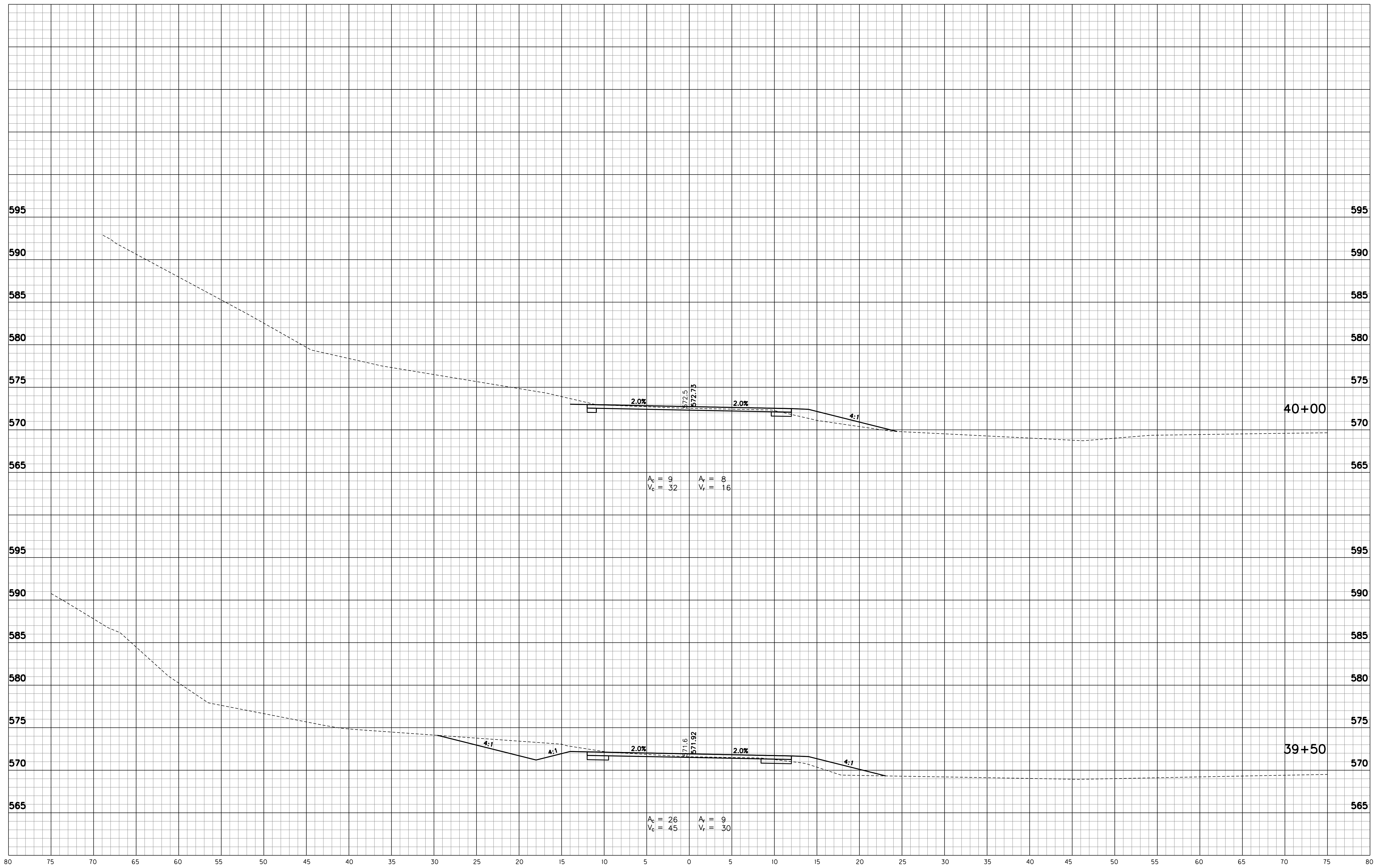
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 36+50 TO STA. 37+50 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	49 of 71
CONTRACT	PROJECT
	ENG1901583164



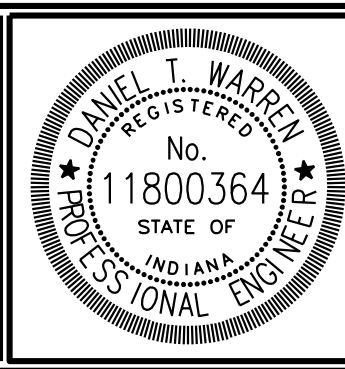
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 NGD:TLB

						RECOMMENDED FOR APPROVAL <i>D. K. Warren</i> DESIGN ENGINEER 11-14-18 DATE	INDIANA DEPARTMENT OF NATURAL RESOURCES CROSS SECTIONS STA. 38+00 TO STA. 39+00 "A"	HORIZONTAL SCALE 1" = 5' BRIDGE FILE DESIGNATION N/A
						DESIGNED: DTW DRAWN: KAM CHECKED: DPL CHECKED: DTW		SURVEY BOOK 50 of 71 SHEETS PROJECT ENG1901583164



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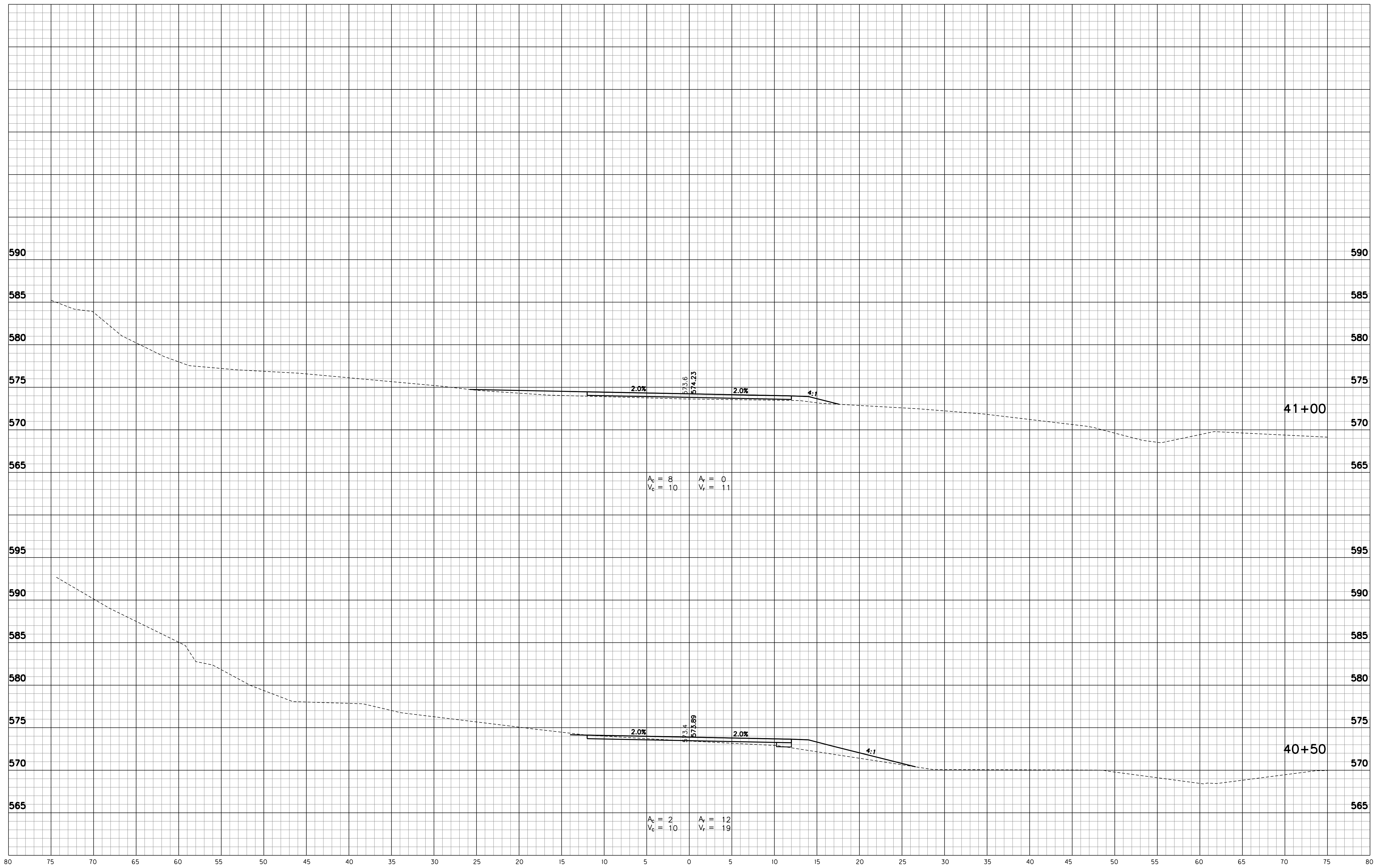
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RECOMMENDED FOR APPROVAL	<i>Dink</i>	DESIGN ENGINEER	11-14-18
DESIGNED:	DTW	DRAWN:	KAM
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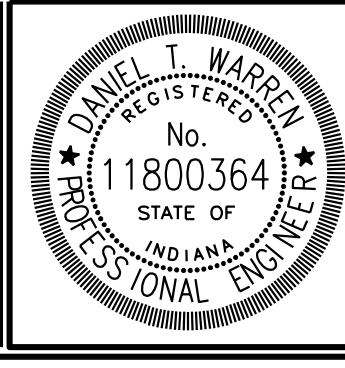
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 39+50 TO STA. 40+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	51 of 71
CONTRACT	PROJECT
	ENG1901583164



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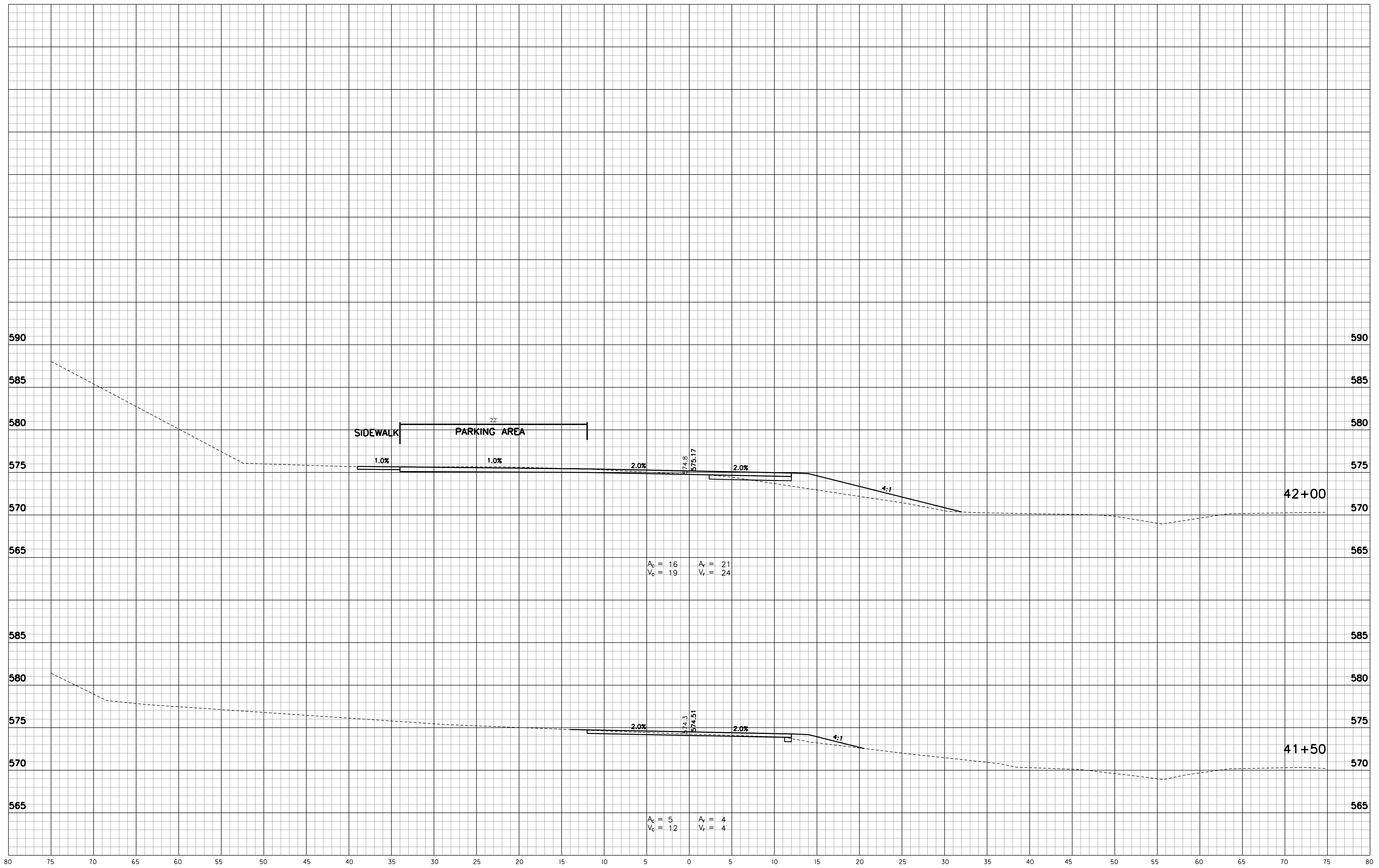
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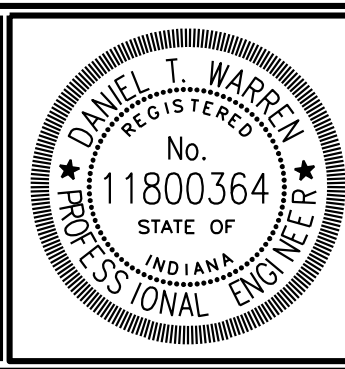
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 40+50 TO STA. 41+00 "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION N/A
SURVEY BOOK	SHEETS 52 of 71
CONTRACT	PROJECT ENG1901583164



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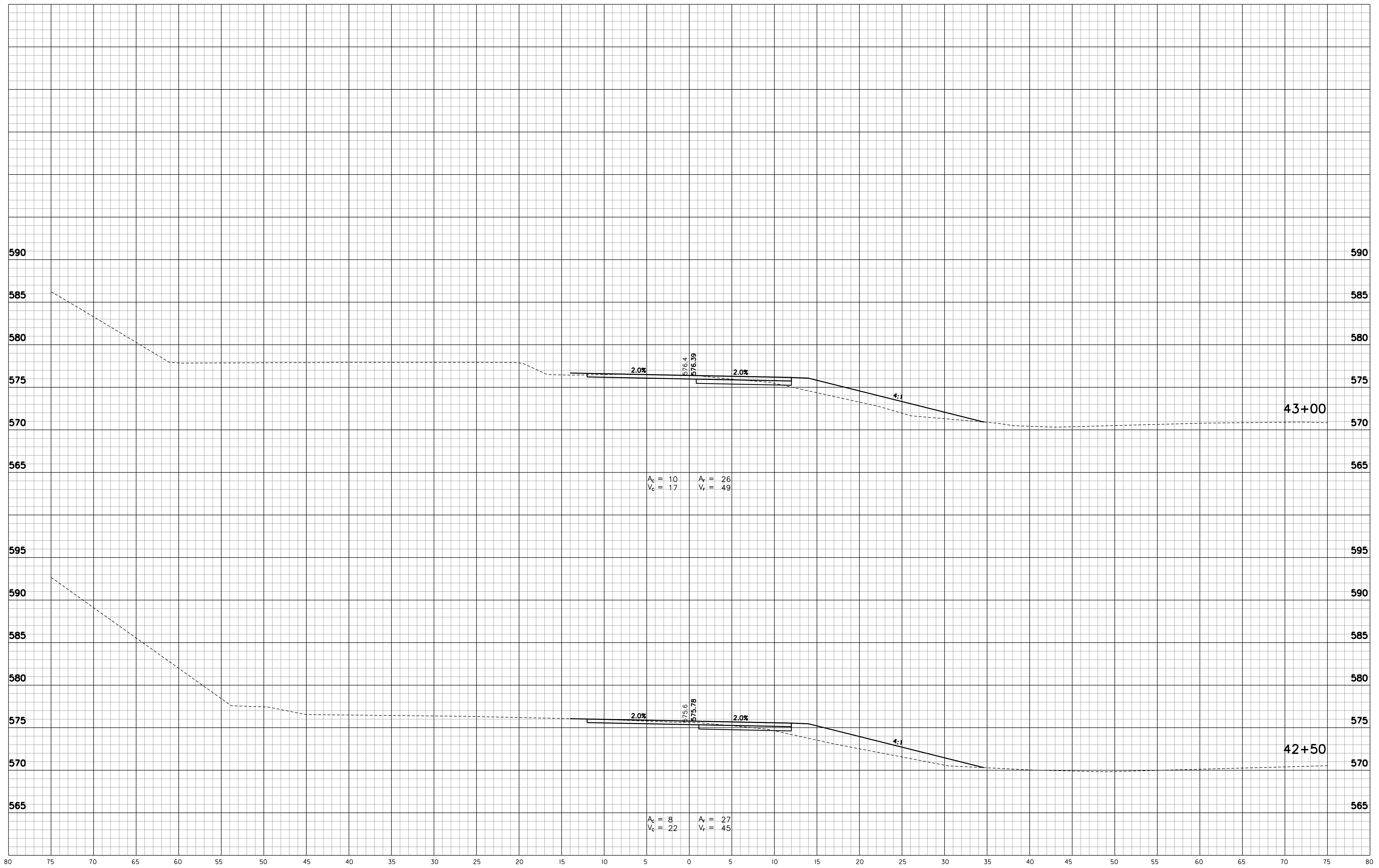
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RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	11-14-18
DESIGNED:	DTW	DATE
DRAWN:	KAM	
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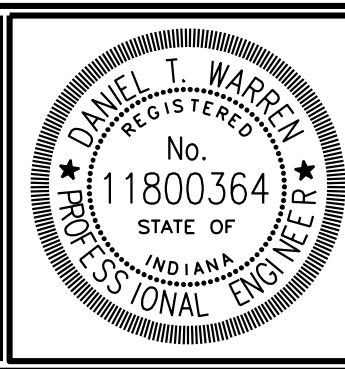
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 41+50 TO STA. 42+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	53 of 71
CONTRACT	PROJECT
	ENG1901583164



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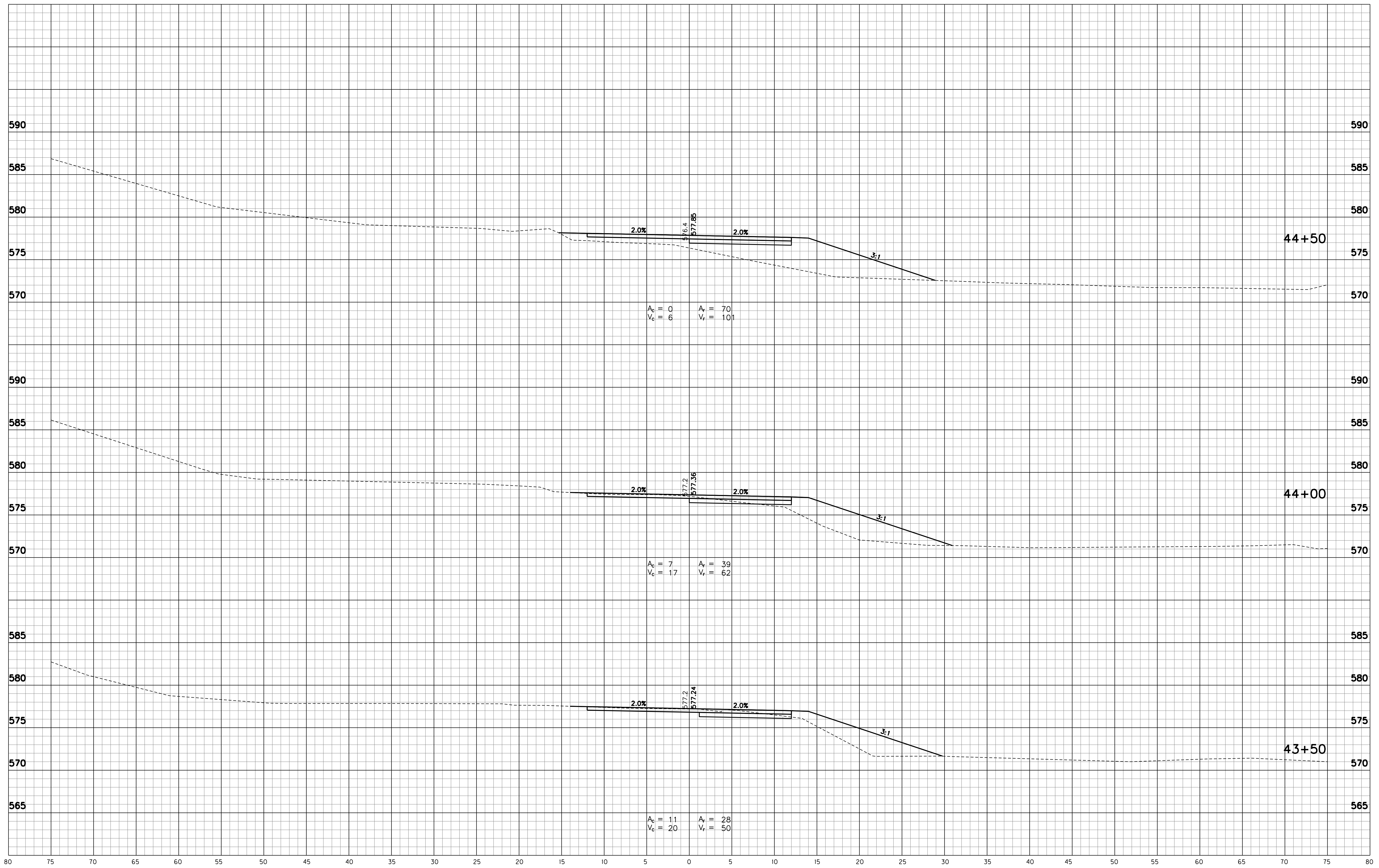
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RECOMMENDED FOR APPROVAL		 DESIGN ENGINEER		11-14-18	DATE
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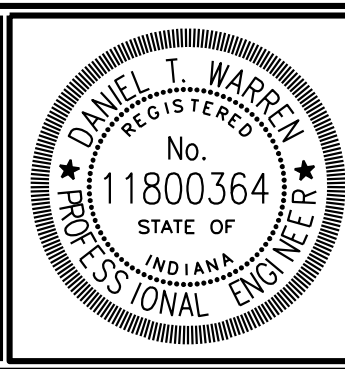
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 42+50 TO STA. 43+00 "A"

HORIZONTAL SCALE	BRIDGE FILE	
1" = 5'		
VERTICAL SCALE	DESIGNATION	
1" = 5'	N/A	
SURVEY BOOK	SHEETS	
	54	of 71
CONTRACT	PROJECT	
	ENG1901583164	



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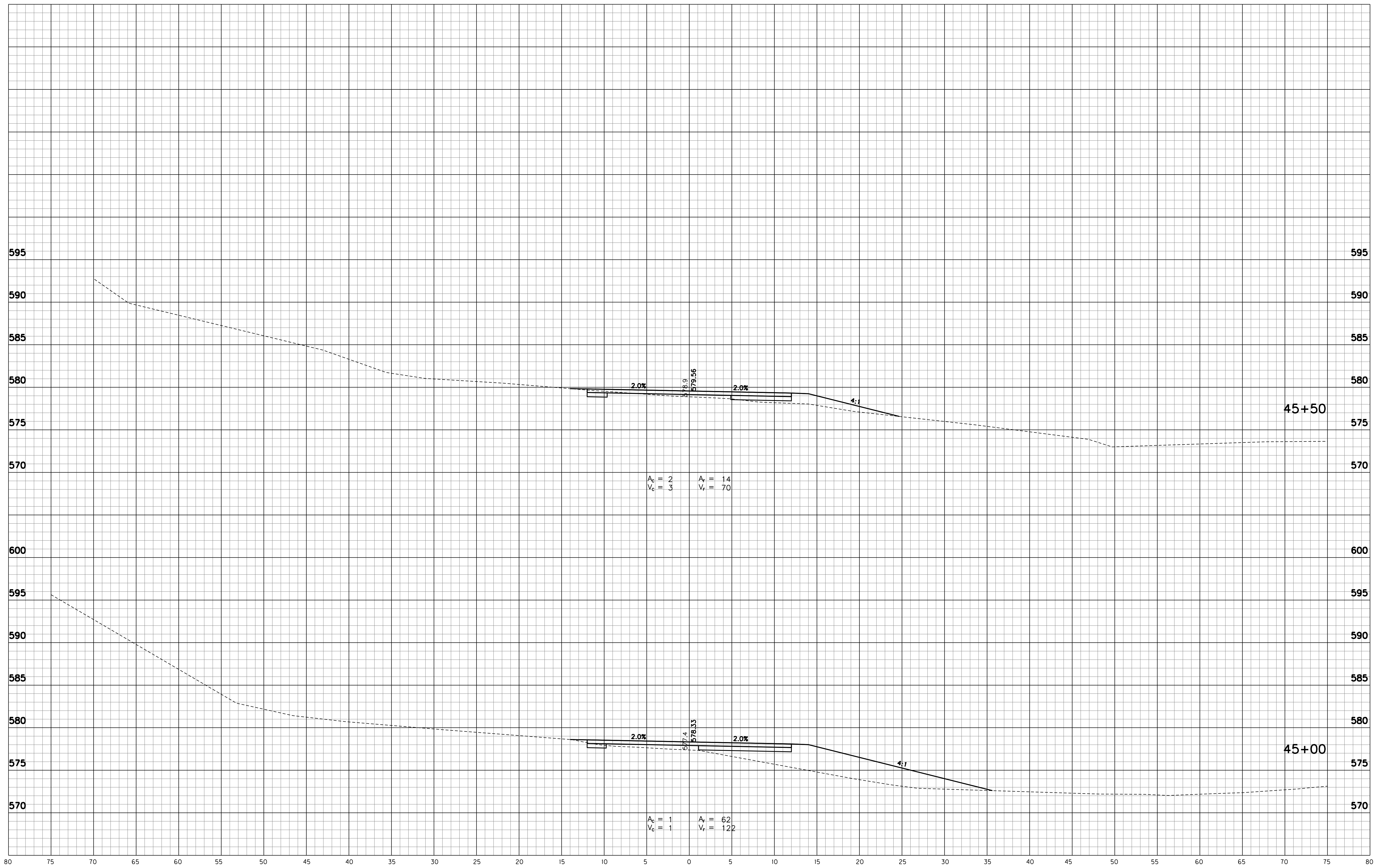


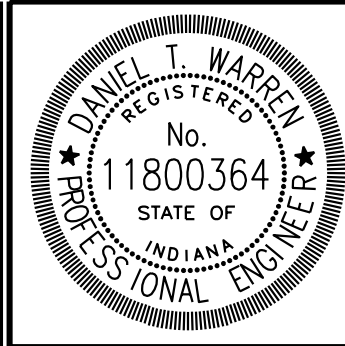
RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	11-14-18
DESIGNED:	DTW	DRAWN:
CHECKED:	DPL	CHECKED:

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 43+50 TO STA. 44+50 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	55 of 71
CONTRACT	PROJECT
	ENG1901583164

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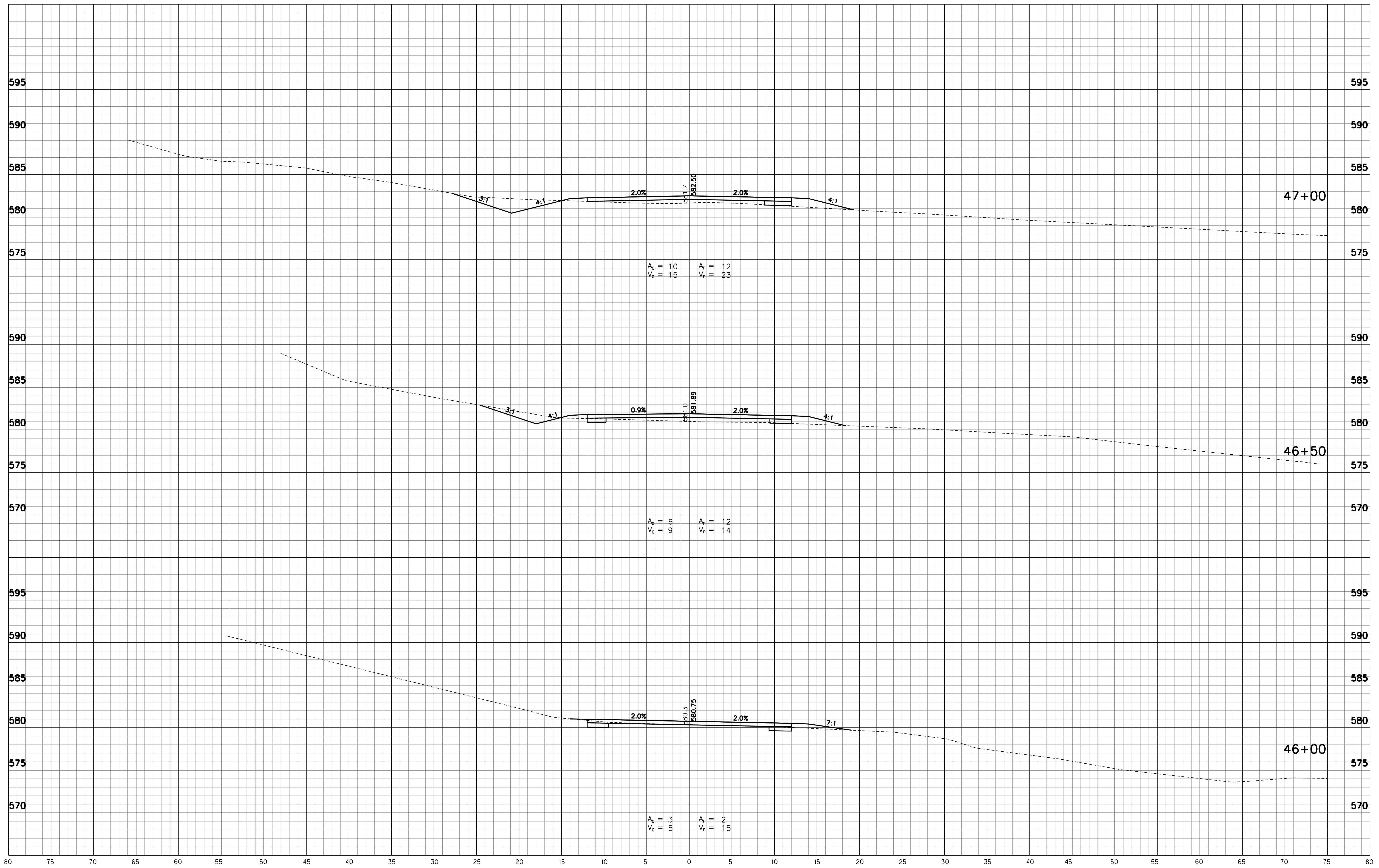




RECOMMENDED FOR APPROVAL *D. Warren*
DESIGN ENGINEER DATE 11-14-18
DESIGNED: DTW DRAWN: KAM
CHECKED: DPL CHECKED: DTW

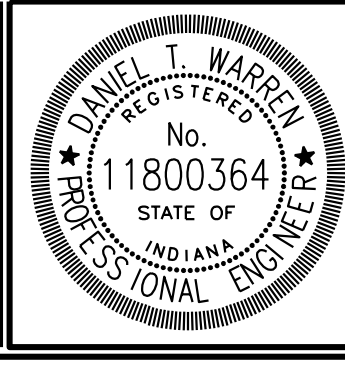
INDIANA
DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
STA. 45+00 TO STA. 45+50 "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION N/A
SURVEY BOOK	SHEETS 56 of 71
CONTRACT	PROJECT ENG1901583164



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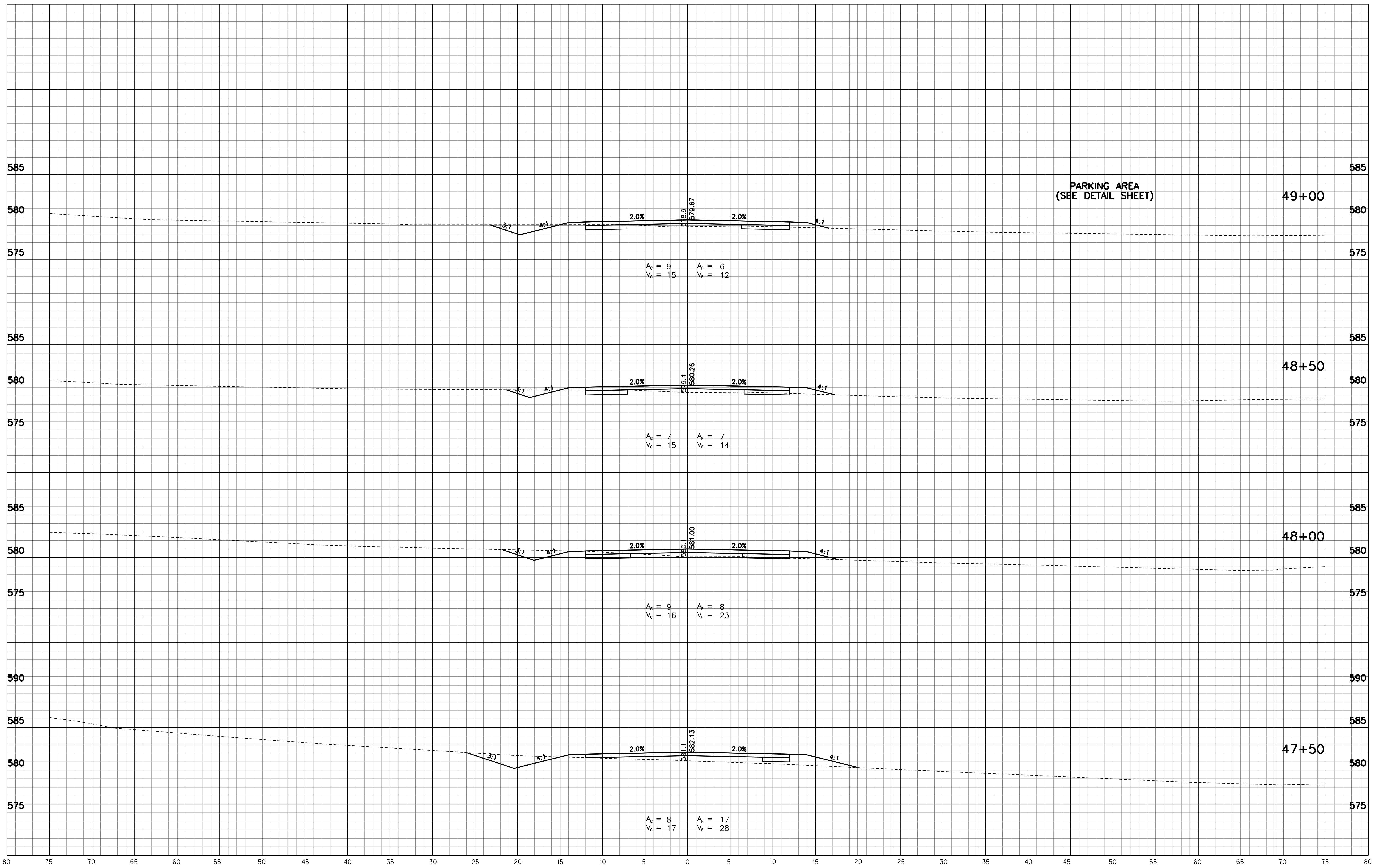
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RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	11-14-18
DESIGNED:	DTW	DRAWN:
CHECKED:	DPL	CHECKED:
		DTW

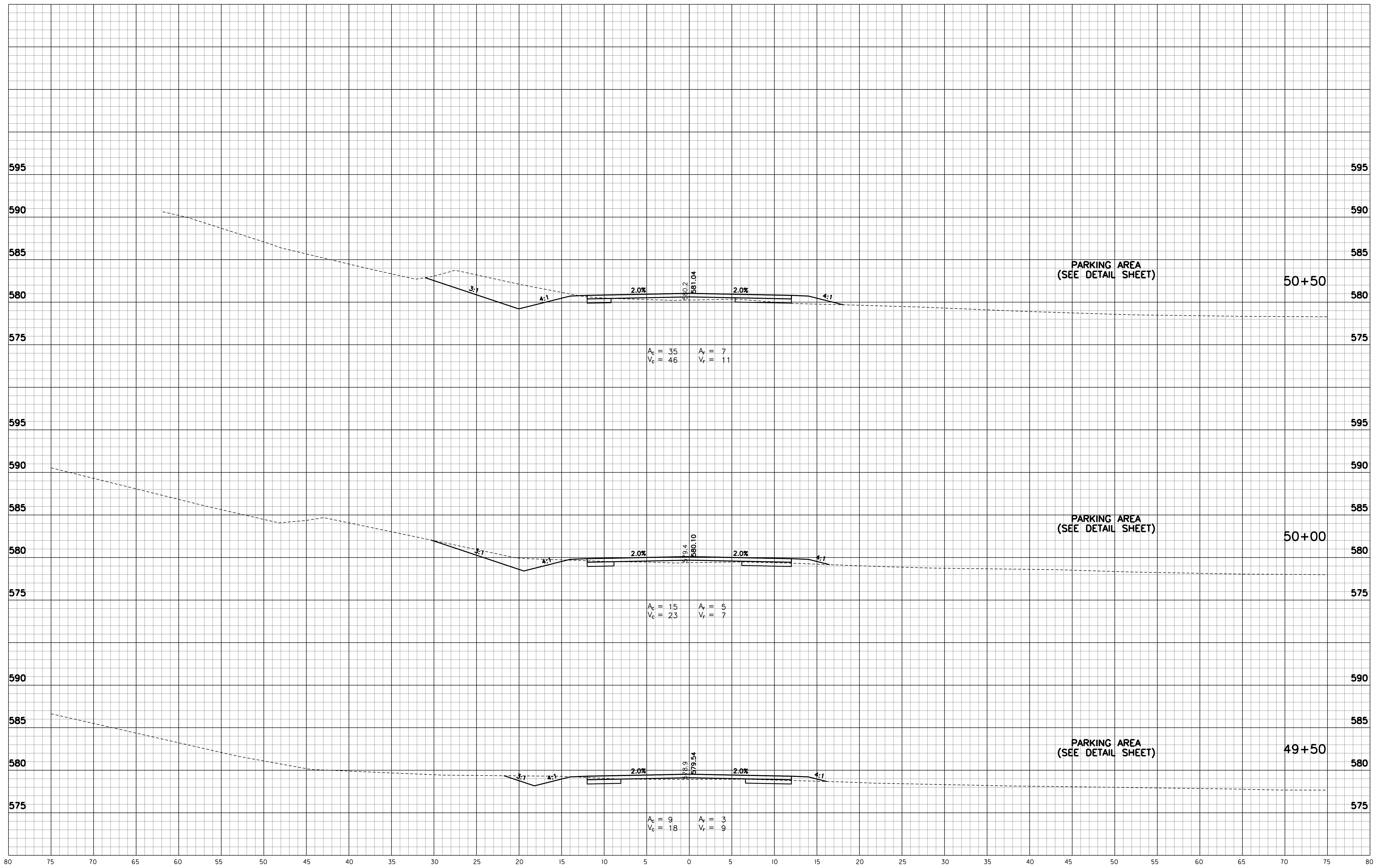
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 46+00 TO STA. 47+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	57 of 71
CONTRACT	PROJECT
	ENG1901583164



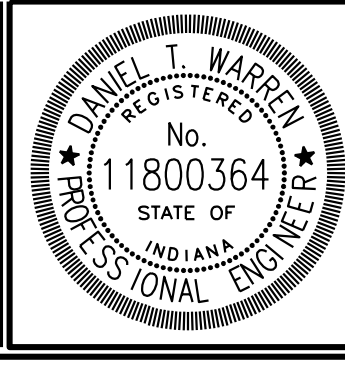
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 NGD/TLB

						INDIANA DEPARTMENT OF NATURAL RESOURCES CROSS SECTIONS STA. 47+50 TO STA. 49+00 "A"		HORIZONTAL SCALE 1" = 5'		BRIDGE FILE	
						RECOMMENDED FOR APPROVAL <i>D. Warren</i> DATE 11-14-18 DESIGN ENGINEER		VERTICAL SCALE 1" = 5'		DESIGNATION N/A	
								SURVEY BOOK		SHEETS 58 of 71	
								CONTRACT		PROJECT ENG1901583164	
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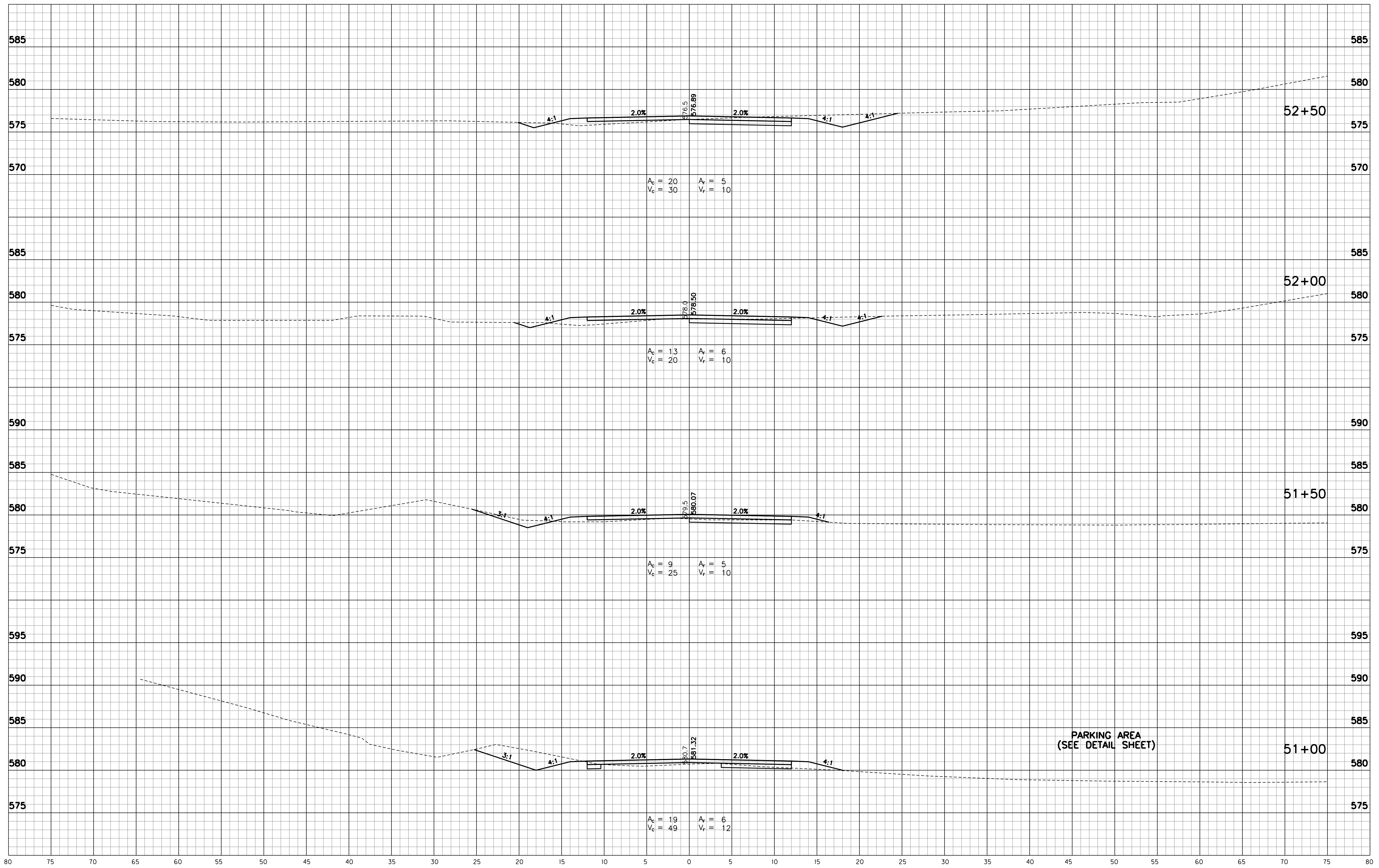
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RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	11-14-18
DESIGNED:	DTW	DRAWN:
CHECKED:	DPL	CHECKED:

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 49+50 TO STA. 50+50 "A"

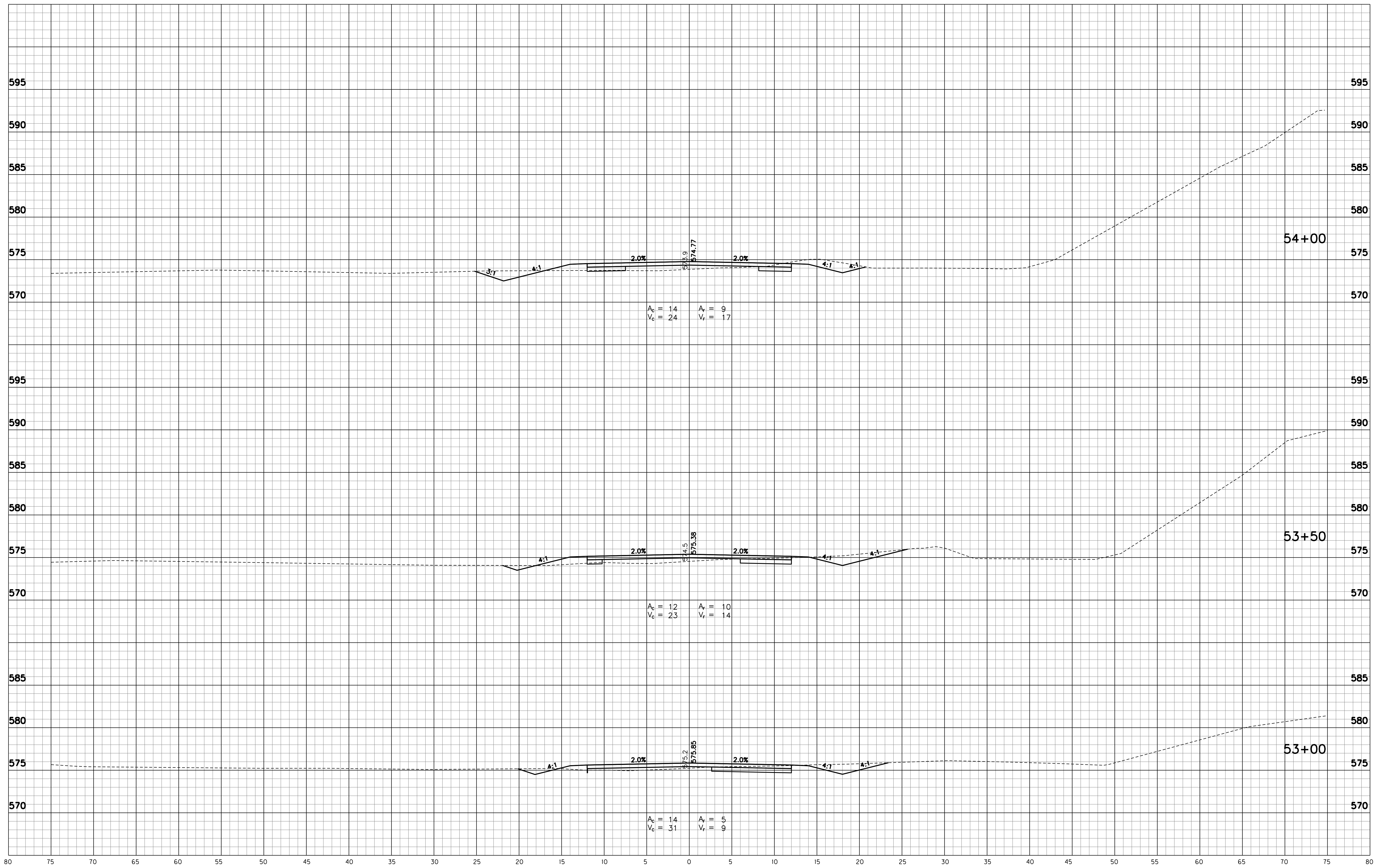
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1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	59 of 71
CONTRACT	PROJECT
	ENG1901583164



PARKING AREA
(SEE DETAIL SHEET)

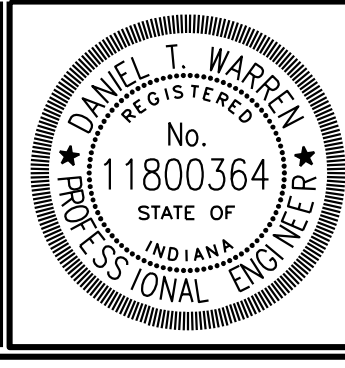
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								CHECKED: DPL CHECKED: DTW				SURVEY BOOK SHEETS 60 of 71			
												CONTRACT PROJECT ENG1901583164			



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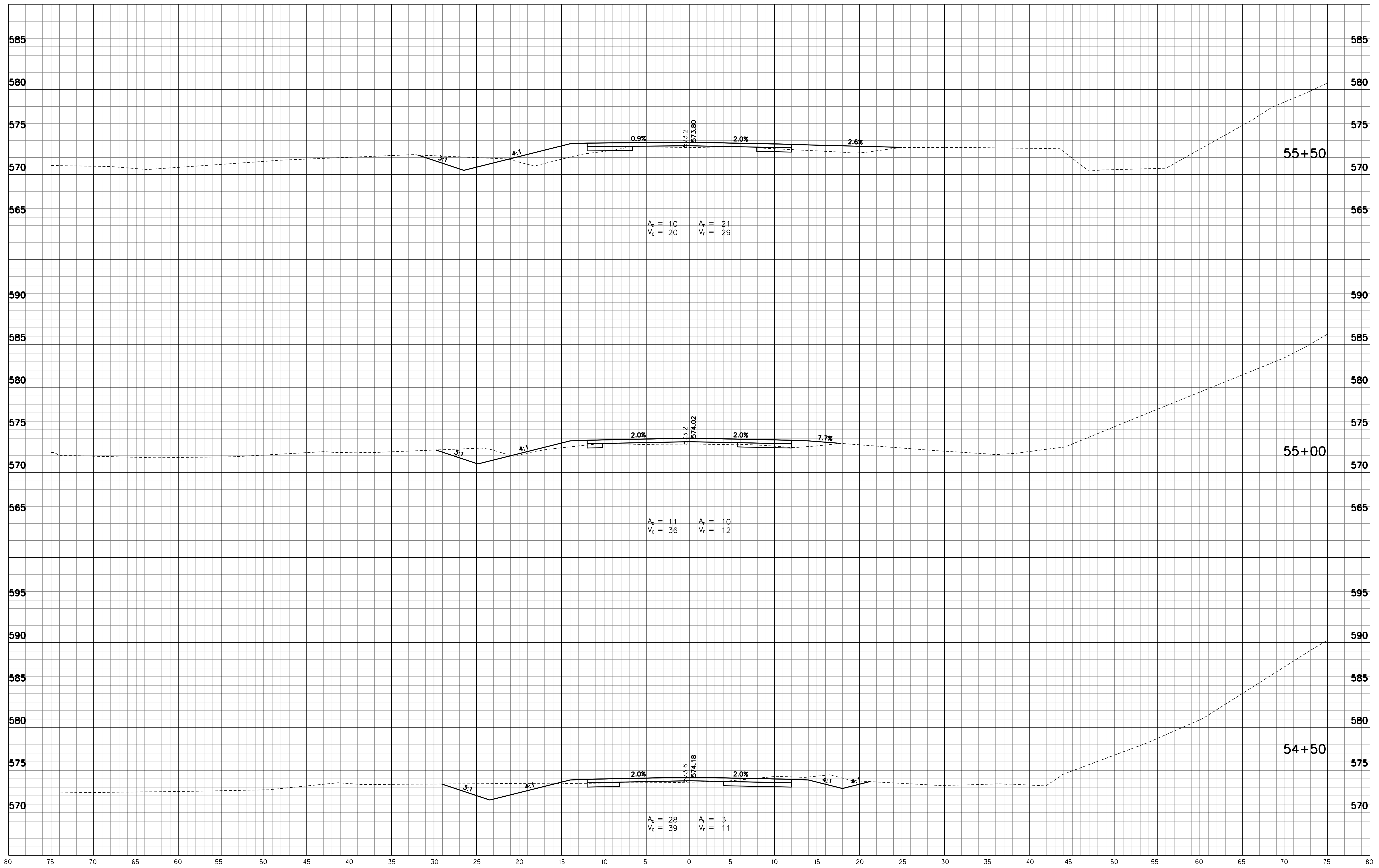
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RECOMMENDED FOR APPROVAL *D. Warren* 11-14-18 DATE
 DESIGN ENGINEER
 DESIGNED: DTW DRAWN: KAM
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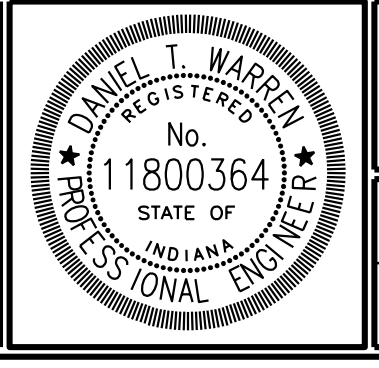
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 53+00 TO STA. 54+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	61 of 71
CONTRACT	PROJECT
	ENG1901583164



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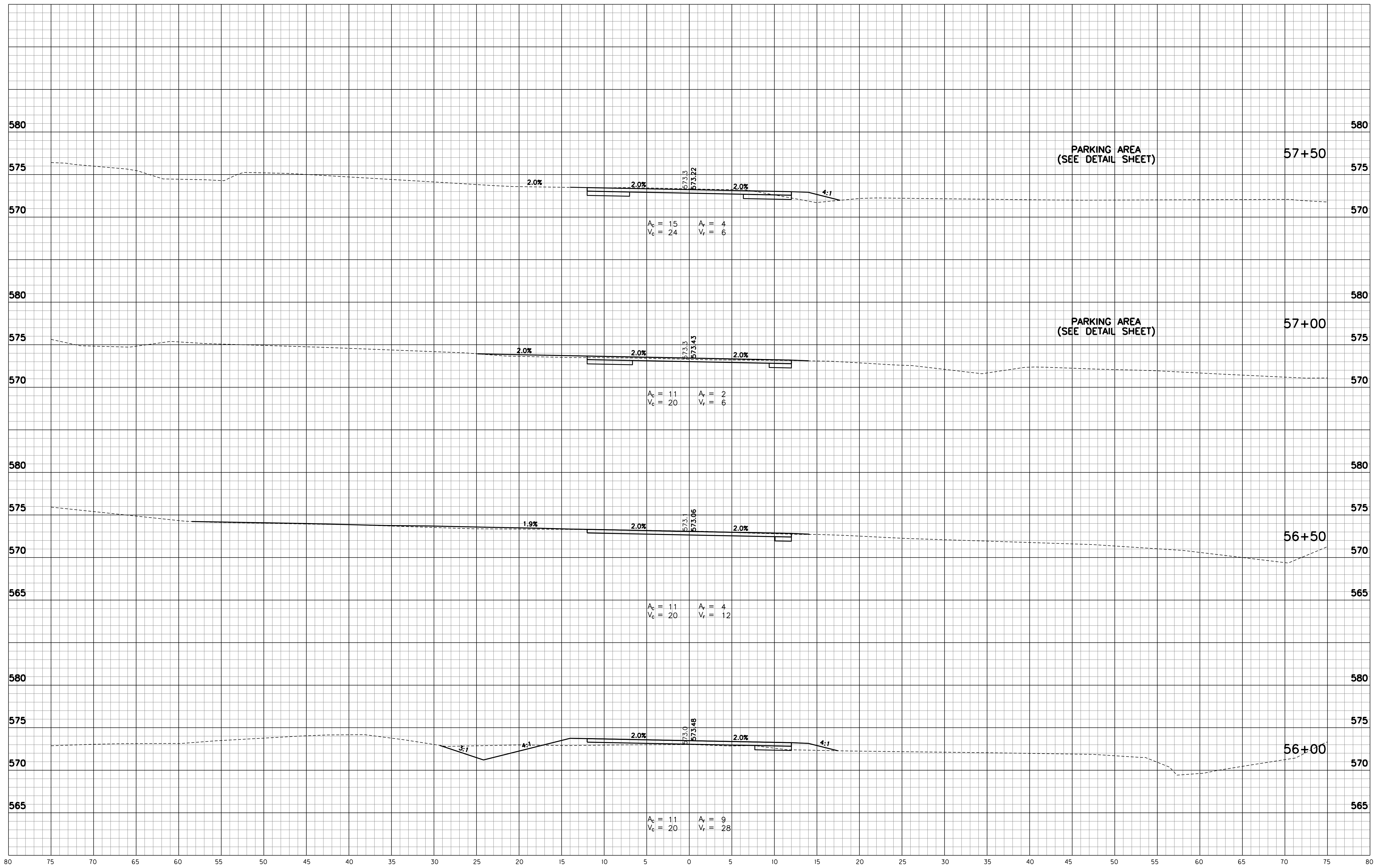
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RECOMMENDED FOR APPROVAL: *D. Warren* 11-14-18
 DESIGN ENGINEER DATE
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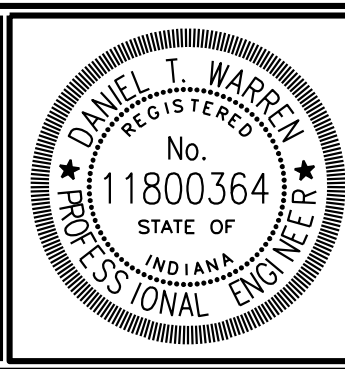
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 54+50 TO STA. 55+50 "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION N/A
SURVEY BOOK	SHEETS 62 of 71
CONTRACT	PROJECT ENG1901583164



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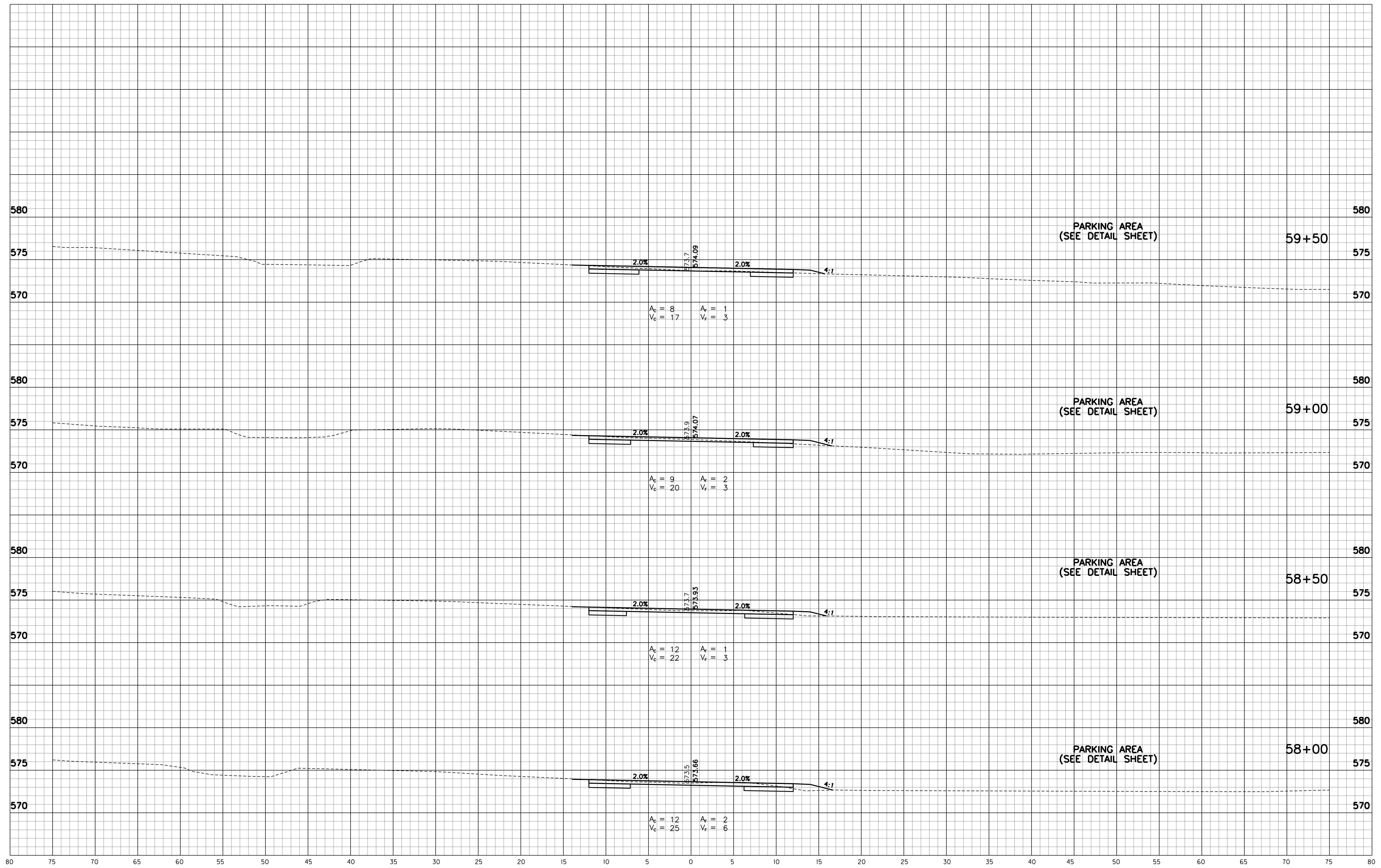
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RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	11-14-18
DESIGNED:	DTW	DRAWN:
CHECKED:	DPL	CHECKED:
		DTW

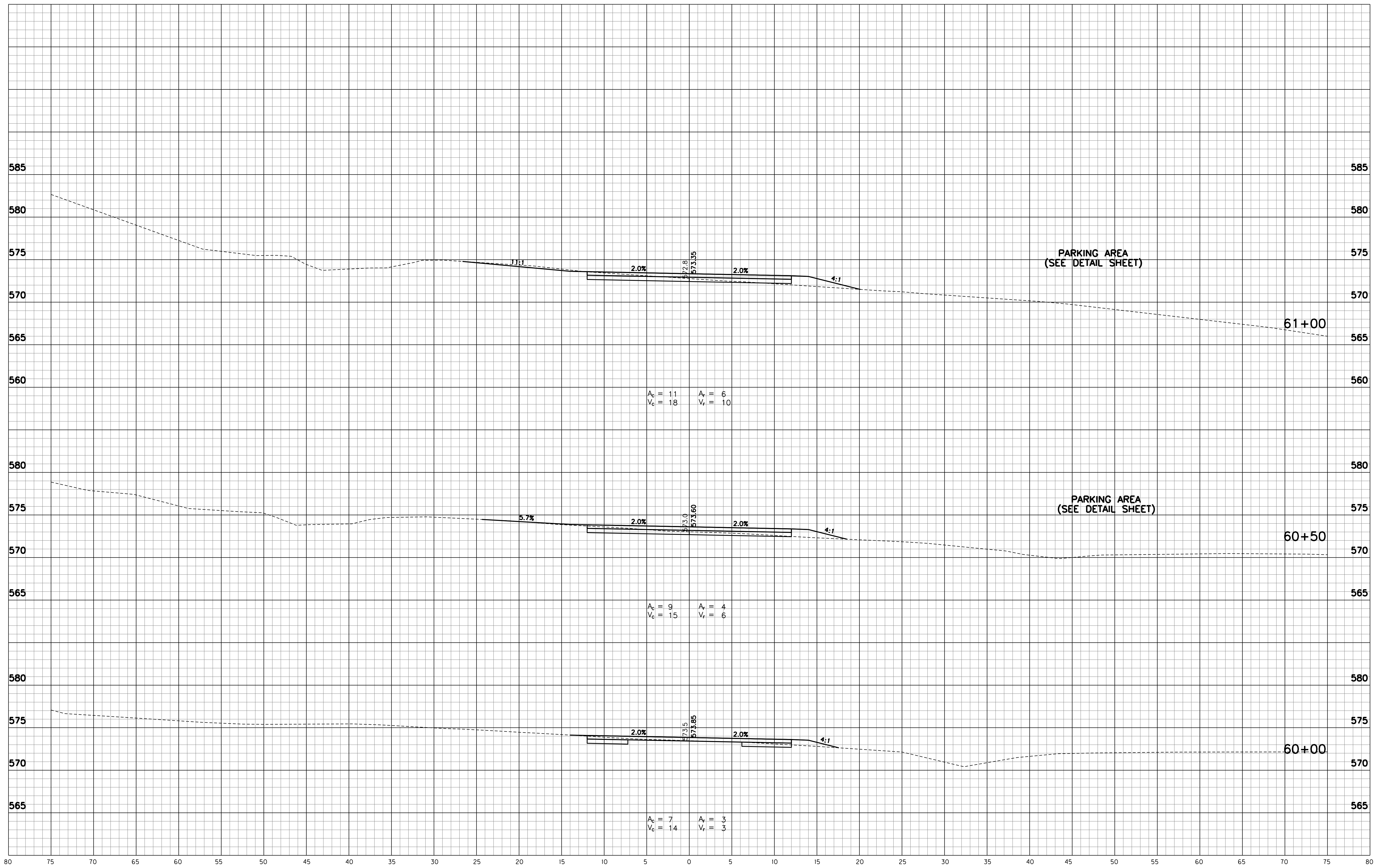
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 56+00 TO STA. 57+50 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	63 of 71
CONTRACT	PROJECT
	ENG1901583164



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										INDIANA DEPARTMENT OF NATURAL RESOURCES CROSS SECTIONS STA. 58+00 TO STA. 59+50 "A"		HORIZONTAL SCALE 1" = 5' VERTICAL SCALE 1" = 5' SURVEY BOOK CONTRACT		BRIDGE FILE DESIGNATION N/A SHEETS 64 of 71 PROJECT ENG1901583164	
				RECOMMENDED FOR APPROVAL <i>Dick</i> DESIGN ENGINEER DATE 11-14-18		DESIGNED: DTW DRAWN: KAM CHECKED: DPL CHECKED: DTW									



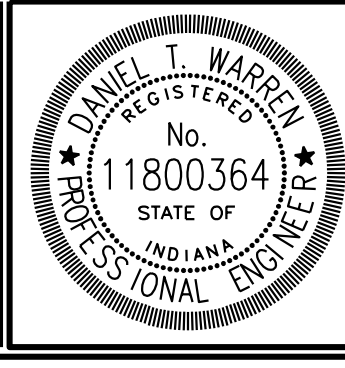
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$A_c = 7$ $A_r = 3$
 $V_c = 14$ $V_r = 3$

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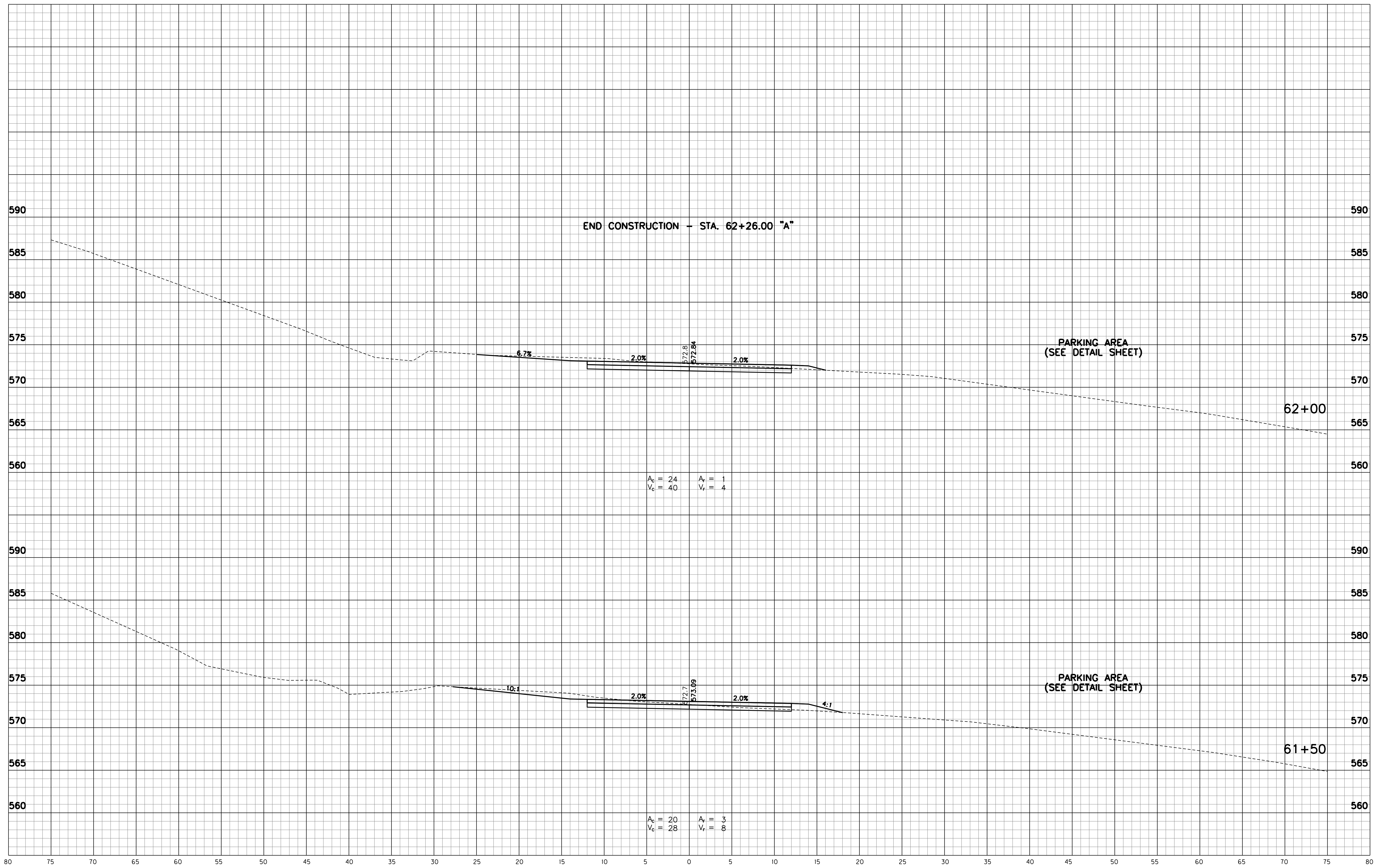
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RECOMMENDED FOR APPROVAL *D. Warren* 11-14-18
 DESIGN ENGINEER DATE
 DESIGNED: DTW DRAWN: KAM
 CHECKED: DPL CHECKED: DTW

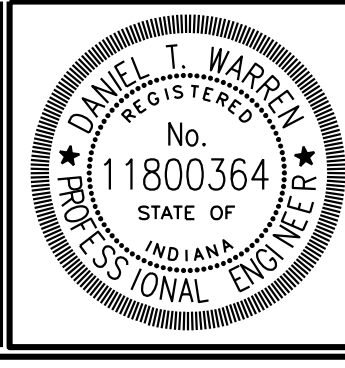
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 CROSS SECTIONS
 STA. 60+00 TO STA. 61+00 "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION N/A
SURVEY BOOK	SHEETS 65 of 71
CONTRACT	PROJECT ENG1901583164



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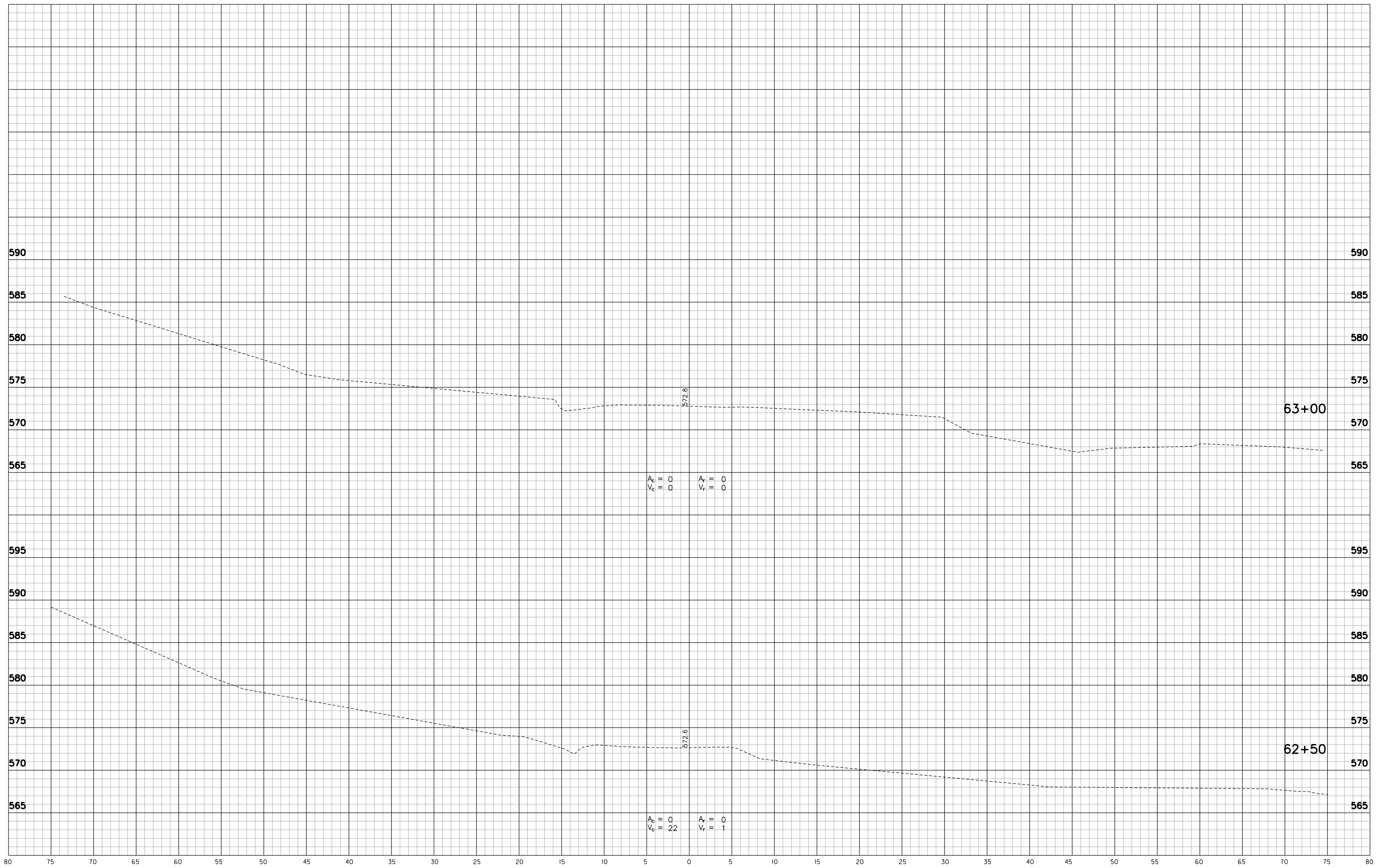
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RECOMMENDED FOR APPROVAL	<i>Dink</i>	DESIGN ENGINEER	11-14-18	DATE
DESIGNED:	DTW	DRAWN:	KAM	
CHECKED:	DPL	CHECKED:	DTW	

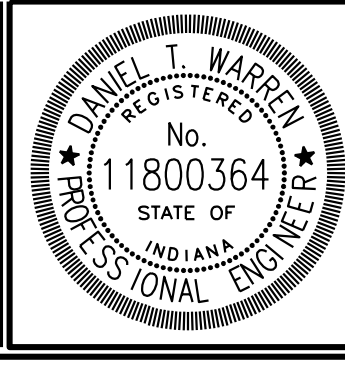
INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 61+50 TO STA. 62+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	66 of 71
CONTRACT	PROJECT
	ENG1901583164



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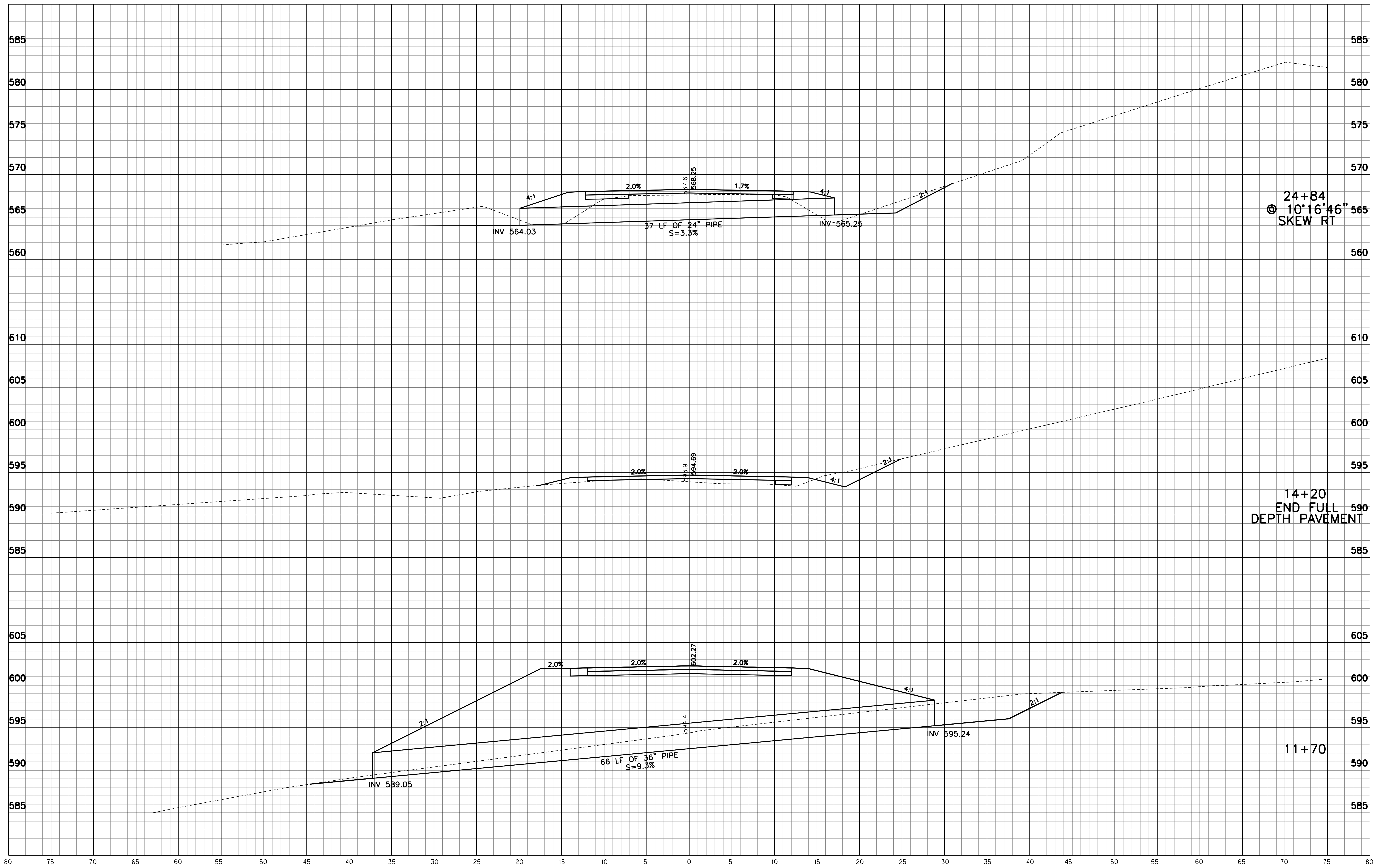
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RECOMMENDED FOR APPROVAL	<i>Dink</i>	11-14-18
DESIGNED: DTW	DRAWN: KAM	DATE
CHECKED: DPL	CHECKED: DTW	

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
CROSS SECTIONS
 STA. 62+50 TO STA. 63+00 "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	67 of 71
CONTRACT	PROJECT
	ENG1901583164



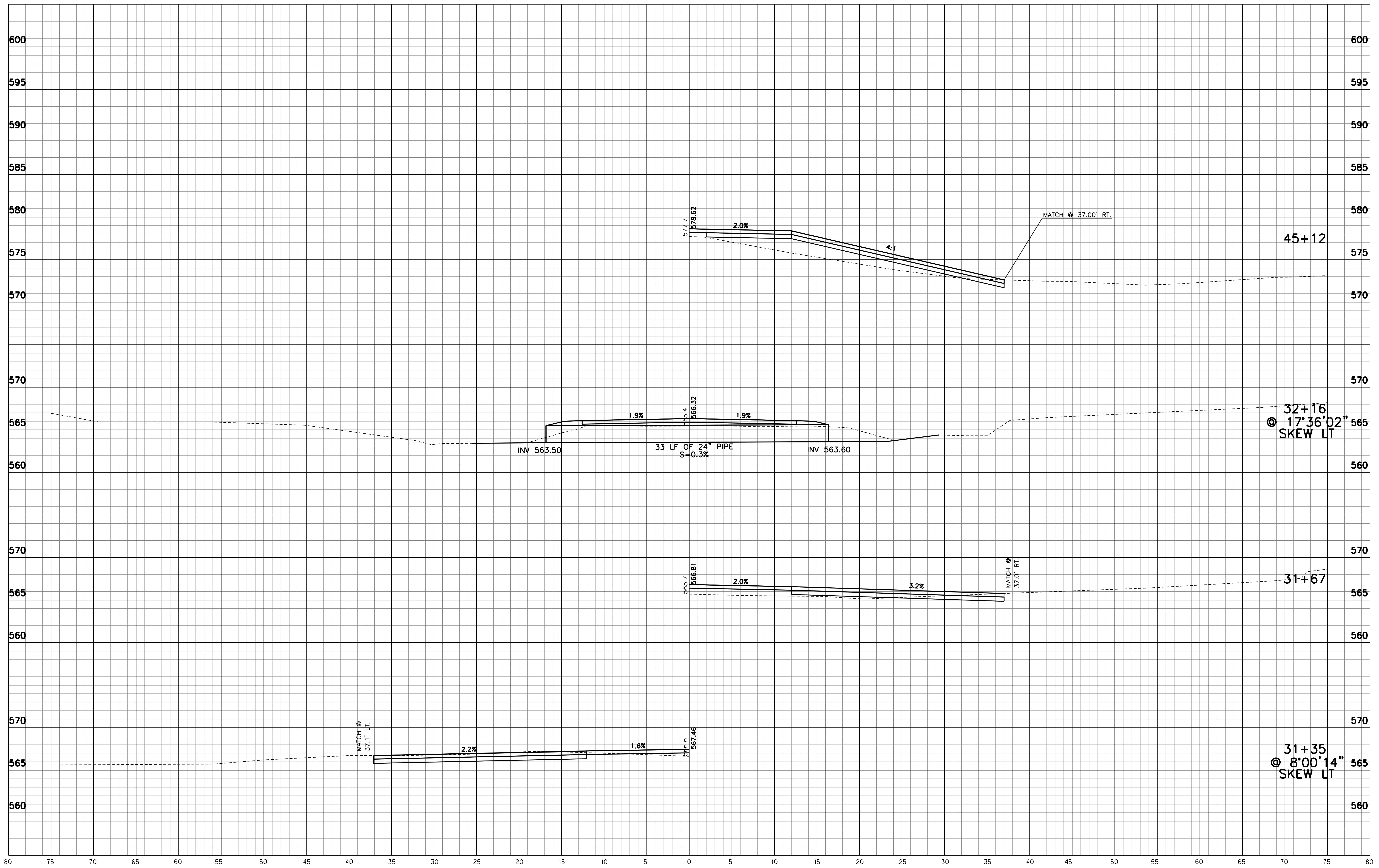
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 SKEW RT

14+20
 END FULL
 DEPTH PAVEMENT

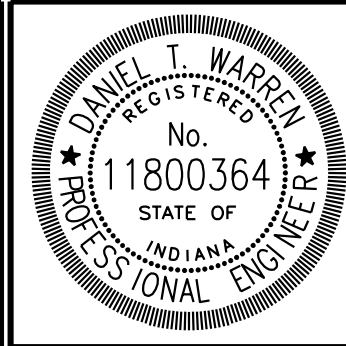
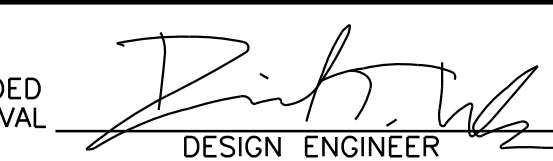
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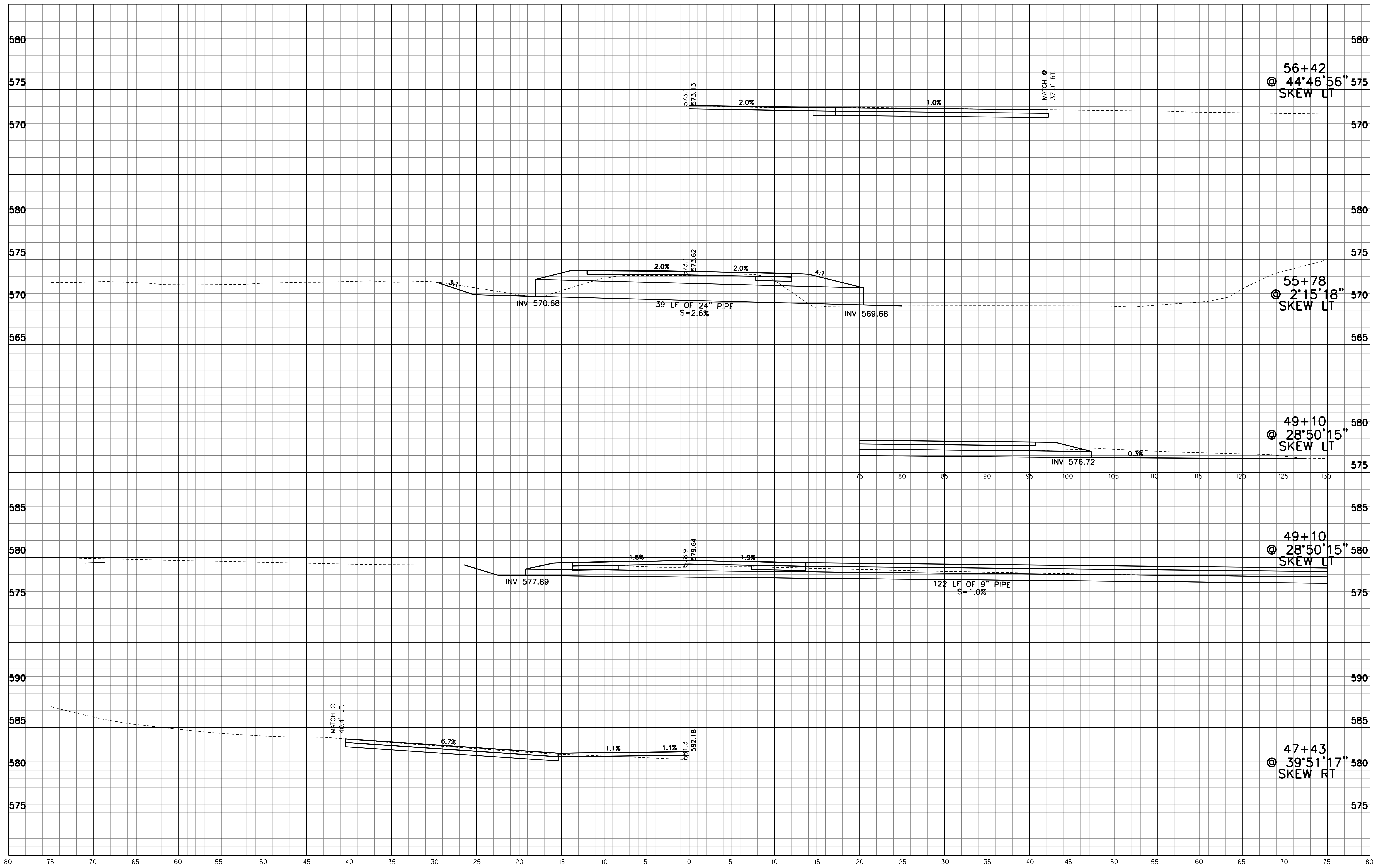
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										HORIZONTAL SCALE 1" = 5' VERTICAL SCALE 1" = 5' SURVEY BOOK CONTRACT		BRIDGE FILE DESIGNATION N/A SHEETS 68 of 71 PROJECT ENG1901583164	
						RECOMMENDED FOR APPROVAL <i>D. K. ...</i> DESIGN ENGINEER DATE 11-14-18		INDIANA DEPARTMENT OF NATURAL RESOURCES		DRIVE & PIPE SECTIONS LINE "A"			
DESIGNED: DTW		DRAWN: KAM		CHECKED: DPL		CHECKED: DTW							



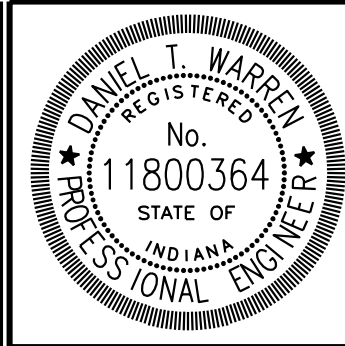
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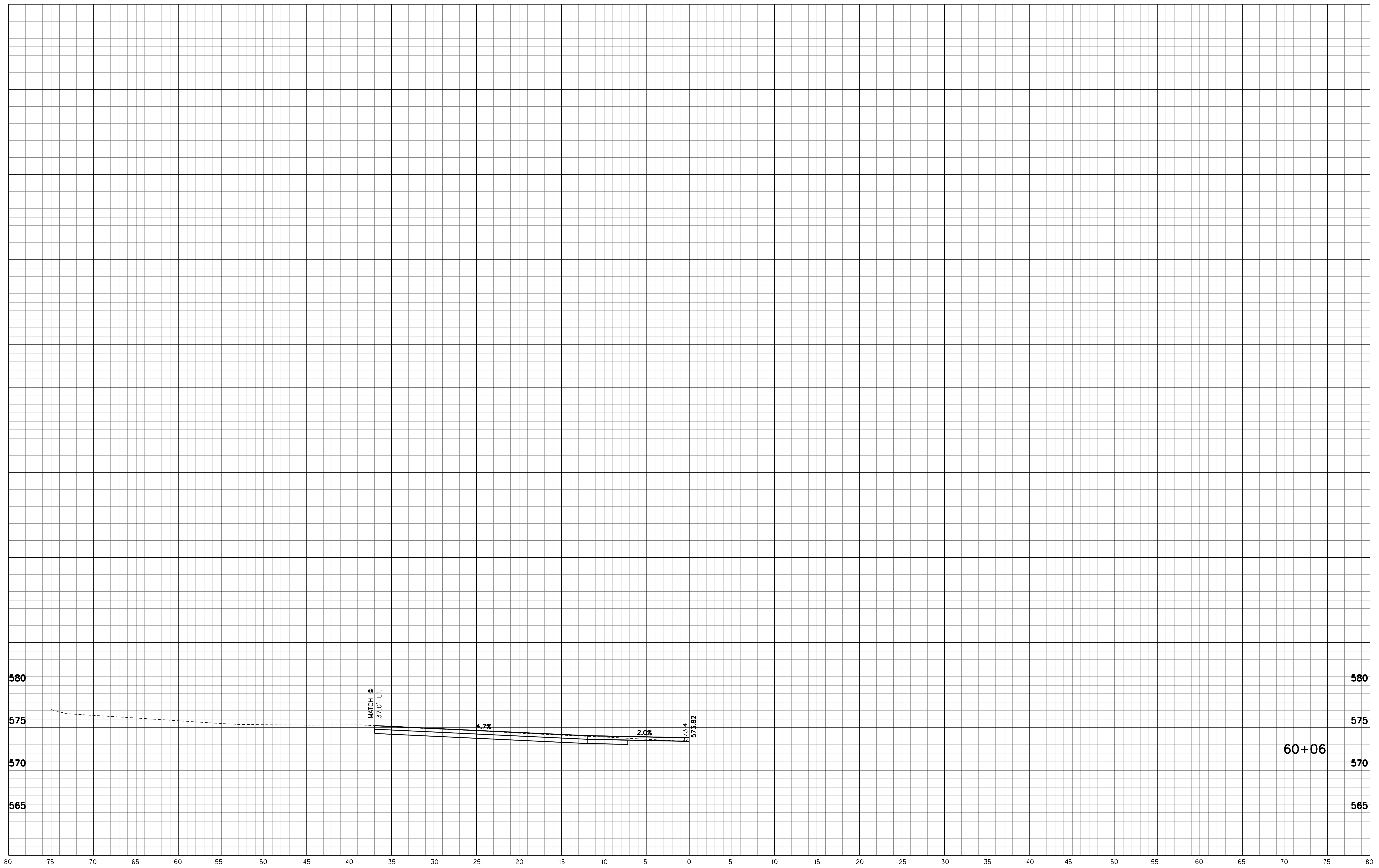
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DESIGNED: DTW	DRAWN: KAM	CHECKED: DPL	CHECKED: DTW						



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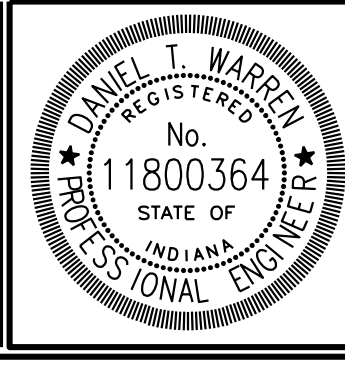
										INDIANA DEPARTMENT OF NATURAL RESOURCES		HORIZONTAL SCALE 1" = 5' VERTICAL SCALE 1" = 5' SURVEY BOOK CONTRACT		BRIDGE FILE DESIGNATION N/A SHEETS 70 of 71 PROJECT ENG1901583164	
				RECOMMENDED FOR APPROVAL DESIGN ENGINEER 11-14-18 DATE				DRIVE & PIPE SECTIONS LINE "A"							
				DESIGNED: DTW CHECKED: DPL				DRAWN: KAM CHECKED: DTW							





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RECOMMENDED FOR APPROVAL	<i>D. Warren</i>	11-14-18
DESIGNED:	DTW	DATE
DRAWN:	KAM	
CHECKED:	DPL	
CHECKED:	DTW	

INDIANA
 DEPARTMENT OF NATURAL RESOURCES
 DRIVE & PIPE SECTIONS
 LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	N/A
SURVEY BOOK	SHEETS
	71 of 71
CONTRACT	PROJECT
	ENG1901583164