

PROJECT	DESIGNATION
1902826	1902826
CONTRACT	BRIDGE FILE
B-42838	02-00277 B

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
02-00277 B	PRESTRESSED CONCRETE SPREAD BOX BEAM	SINGLE SPAN @ 69'-0" NO SKEW	HOFFMAN DRAIN	STA. 18+19.00 "A"

ALLEN COUNTY HIGHWAY DEPARTMENT

BRIDGE PLANS

FOR SPANS OVER 20 FEET

PROJECT NO. 1902826 P.E.
1902826 R/W
1902826 CONST.

REPLACEMENT OF ALLEN COUNTY BRIDGE NO. 277 OVER HOFFMAN DRAIN
LOCATED ON MONROEVILLE ROAD 455 FEET WEST OF THE JUNCTION
WITH FACKLER ROAD, IN SECTIONS 9, 10, 15 AND 16, T-29-N, R-14-E,
MADISON TOWNSHIP, ALLEN COUNTY, INDIANA.

BOARD OF COMMISSIONERS

F. NELSON PETERS, SECRETARY

THERESE M. BROWN, PRESIDENT

RICHARD E. BECK, VICE PRESIDENT

EXECUTIVE DIRECTOR

WILLIAM F. HARTMAN

COUNTY ENGINEER

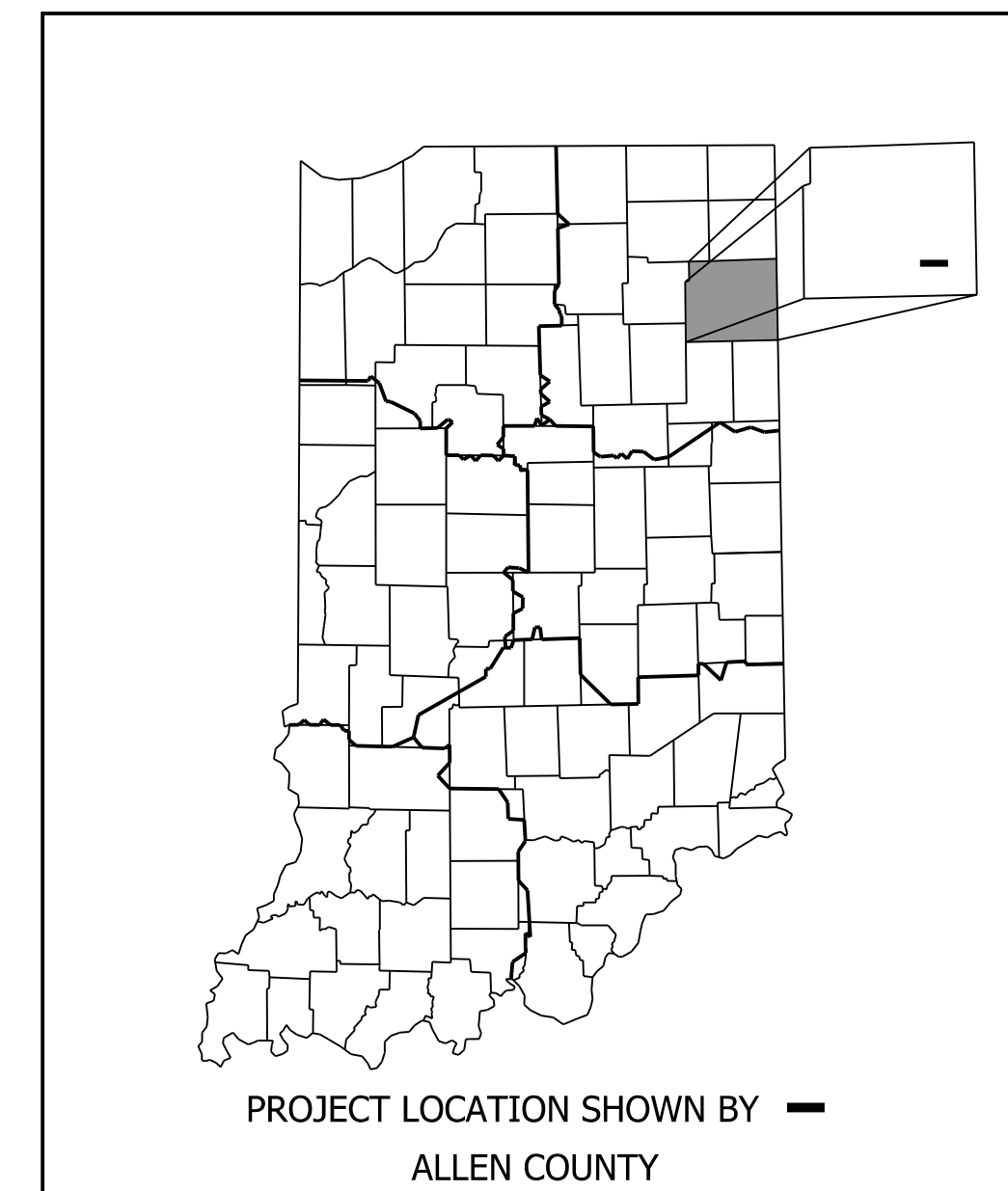
MICHAEL L. THORNSON, P. E.

ATTEST

CHRIS CLOUD, ALLEN COUNTY DEPUTY AUDITOR

TRAFFIC DATA		Monroeville Rd
A.A.D.T. (2024)	2,760	V.P.D.
A.A.D.T. (2044)	4,255	V.P.D.
D.H.V. (2044)	430	V.P.H.
DIRECTIONAL DISTRIBUTION	50	%
TRUCKS	5%	A.A.D.T.
	10%	D.H.V.

DESIGN DATA	
DESIGN SPEED	55 mph
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

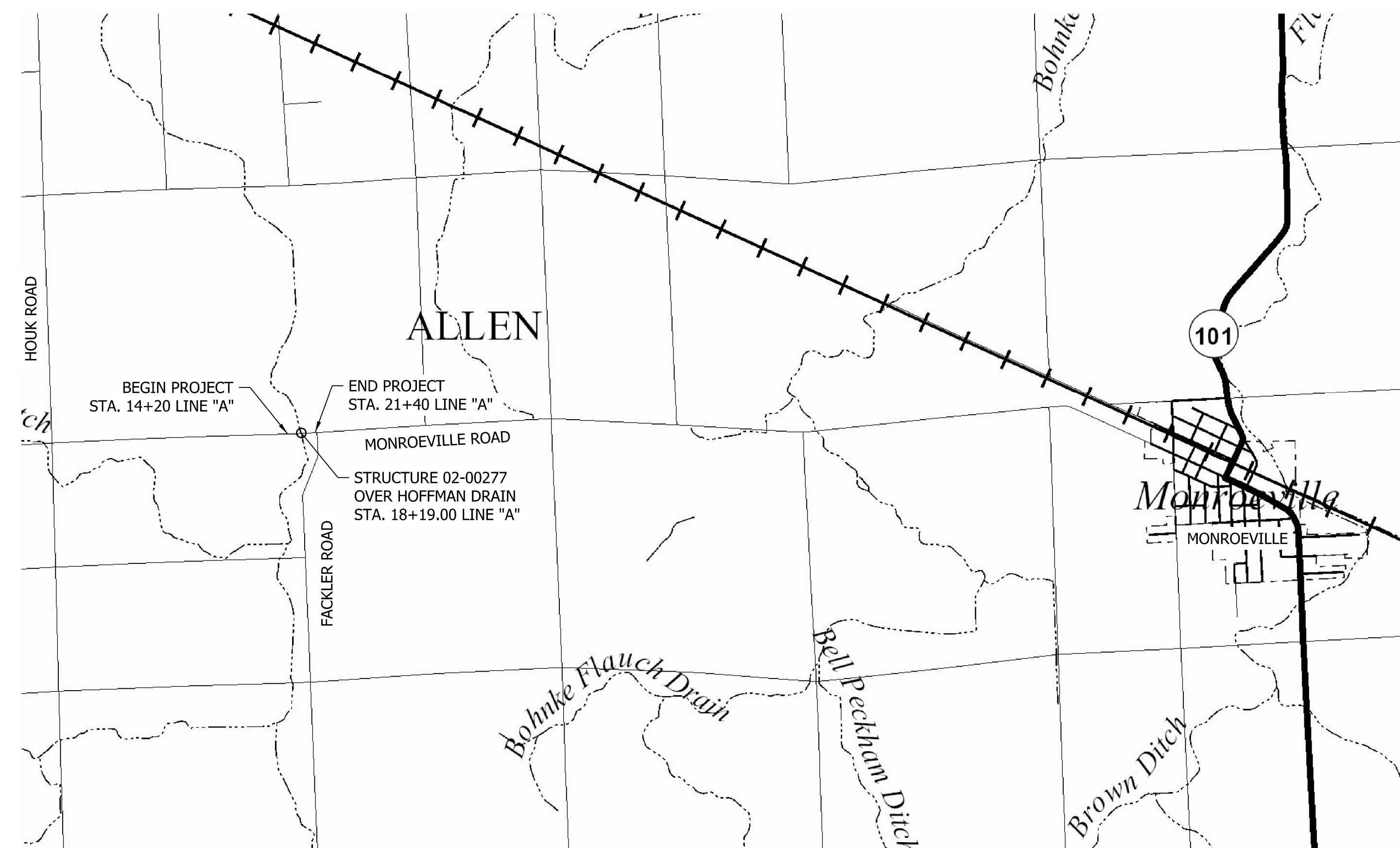


LATITUDE: 40°58'42" N LONGITUDE: 84°56'25" W

BRIDGE LENGTH: 0.013 MI.
ROADWAY LENGTH: 0.123 MI.
TOTAL LENGTH: 0.136 MI.
MAX. GRADE: -1.59 %

HUC: 041000071202

SCALE: 1" = 2,000'



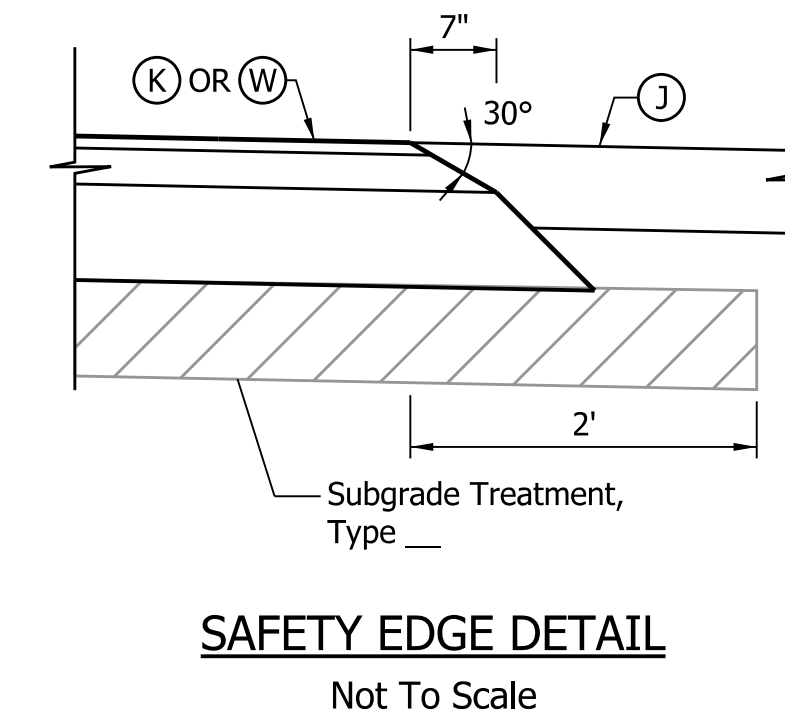
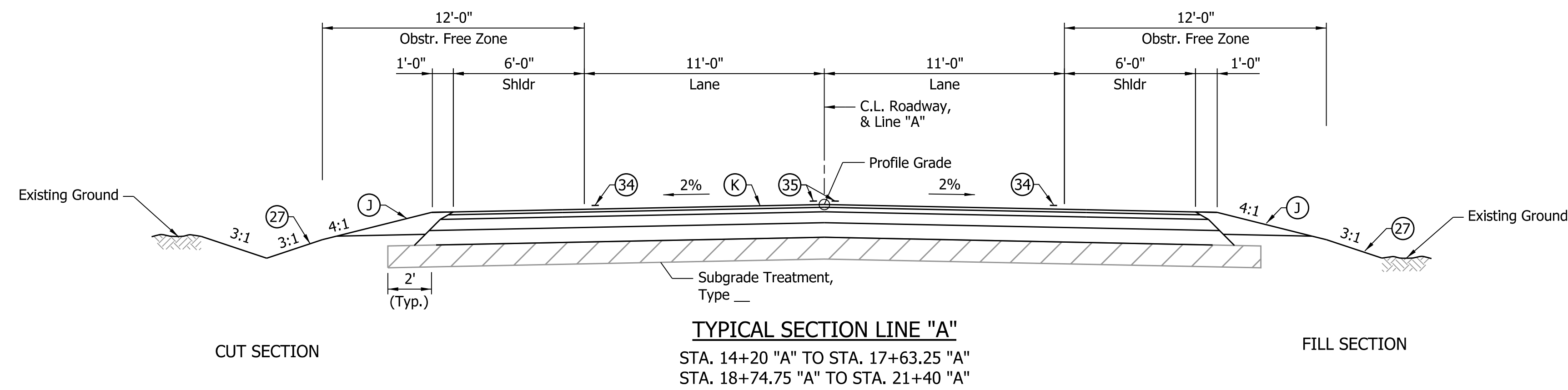
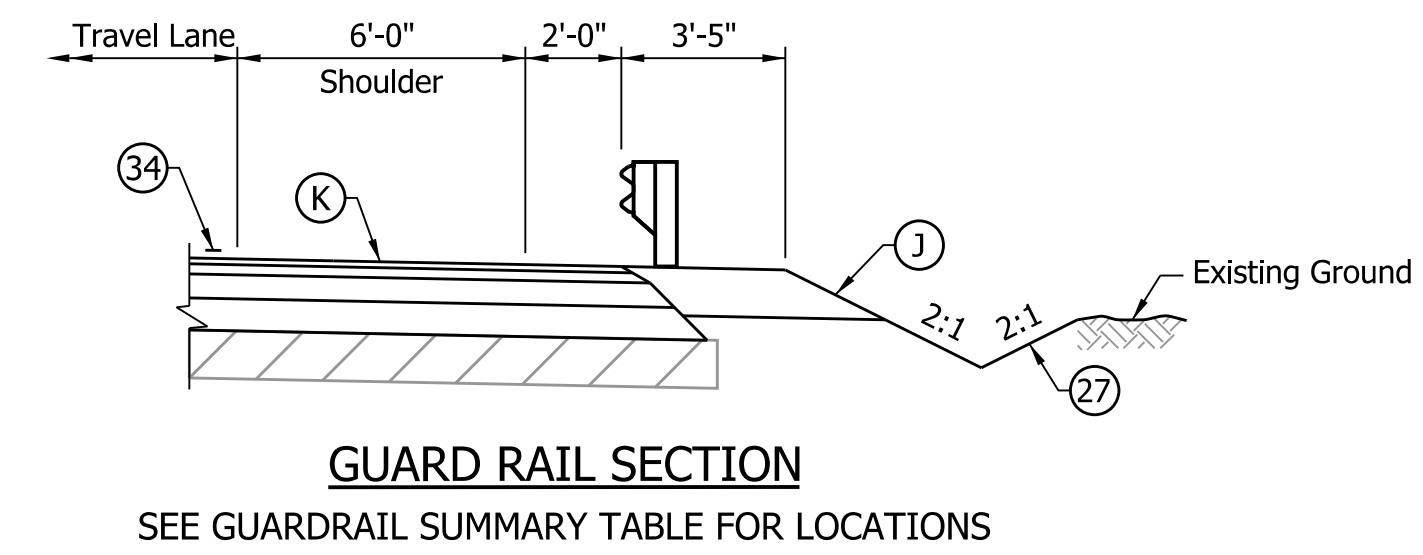
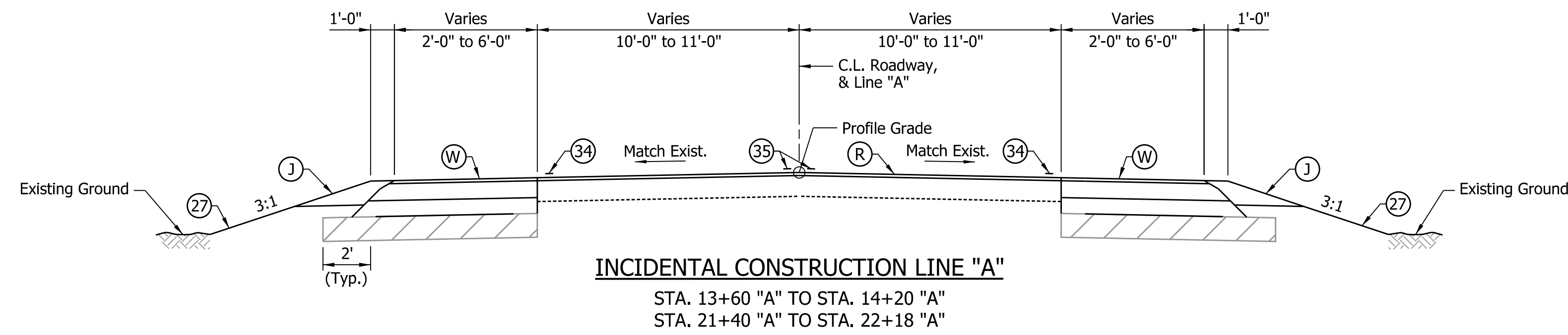
PFC PLANS
APRIL 2022

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2022
TO BE USED WITH THESE PLANS

ClarkDietz
8900 KEYSTONE CROSSING, SUITE 475
INDIANAPOLIS, INDIANA 46240
T:317.844.8900...www.clarkdietz.com

PLANS PREPARED BY:	Clark Dietz, Inc.	(317) 844-8900
		PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

PFC PLANS	BRIDGE FILE	02-00277 B
	DESIGNATION	1902826
	SURVEY BOOK	SHEETS
	1	of 19
	CONTRACT	PROJECT
	B-42838	1902826



- LEGEND**
- (W) Widening with QC/CA-HMA Pavement
165#/syd HMA Surface, Type B, on
440#/syd HMA Intermediate, Type B, on
6" Compacted Aggregate, No. 53, Base, on
8" Compacted Aggregate, No. 2
 - (K) Full Depth HMA Pavement
165#/syd HMA Surface, Type B, on
440#/syd HMA Intermediate, Type B, on
6" Compacted Aggregate, No. 53, Base, on
8" Compacted Aggregate, No. 2
 - (J) 12" Compacted Aggregate, No. 53, Base
 - (R) Asphalt Milling (1/2" Min. Depth)
Resurface Over Existing Pavement With
165#/syd HMA Surface, Type B
 - (26) Sodding
 - (27) Seed Mixture, Native
 - (28) Mulched Seeding, R
 - (34) Line, Paint, Solid, White, 4 in.
 - (35) Line, Paint, Broken, Yellow, 4 in.
 - (36) Line, Paint, Solid, Yellow, 4 in.
 - Raised Pavement Marker (RPM)

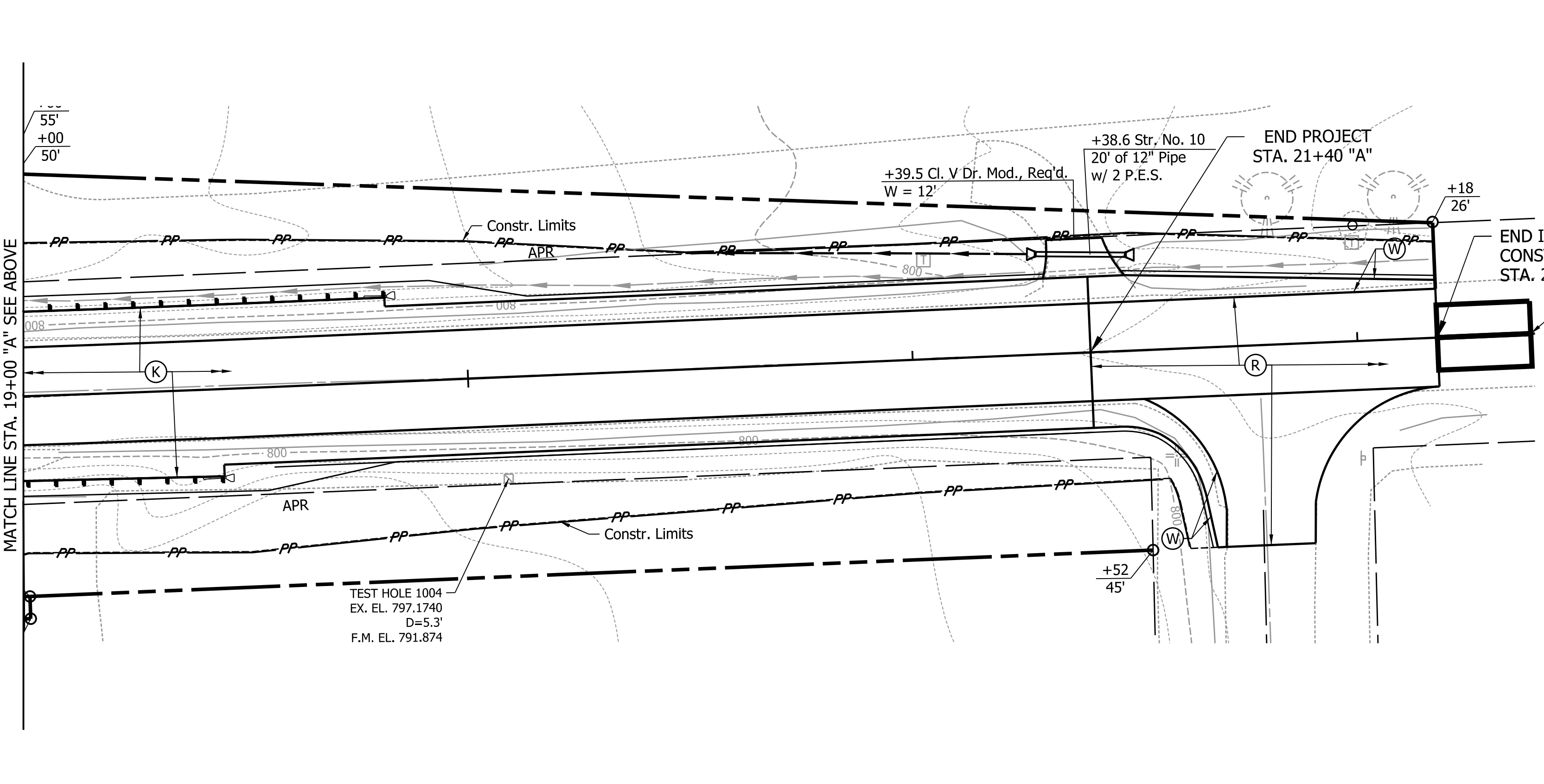
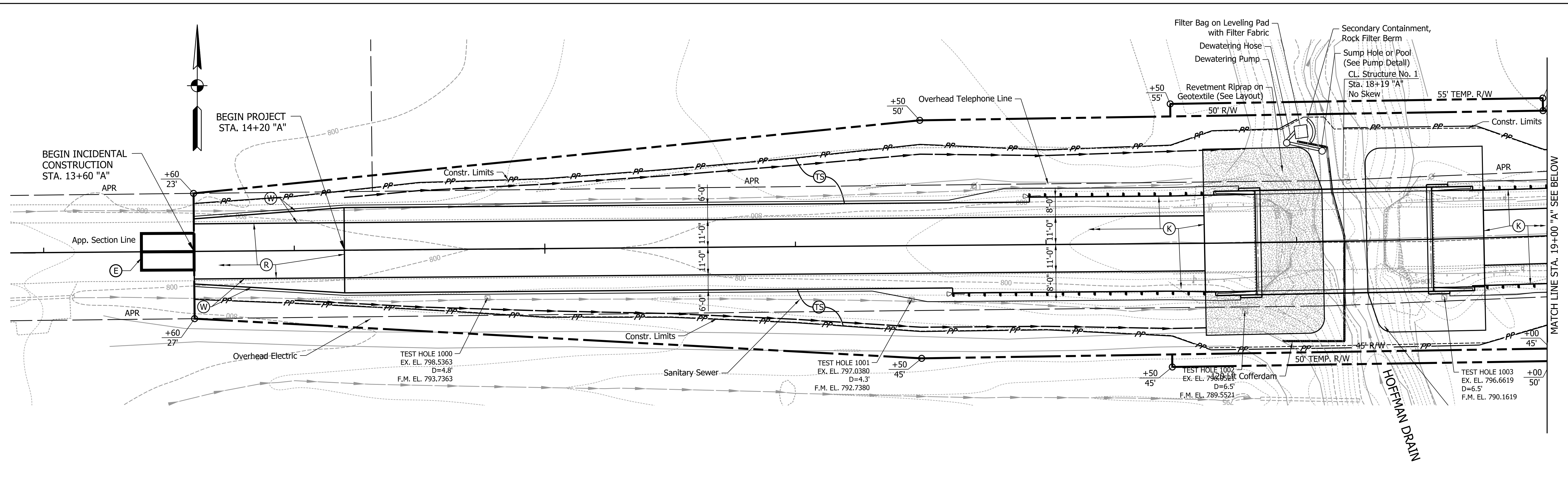
NOTE TO REVIEWER:
 APPROVED PAVEMENT
 DESIGN PENDING

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PFC PLANS	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	ALLEN COUNTY HIGHWAY DEPARTMENT	HORIZONTAL SCALE 1"=4'	BRIDGE FILE 02-00277 B
	DESIGNED: _____ KMK DRAWN: _____ MHF		VERTICAL SCALE 1"=4'	DESIGNATION 1902826
	CHECKED: _____ KRL CHECKED: _____ KMK	TYPICAL CROSS SECTION LINE "A"	SURVEY BOOK	SHEETS 3 of 19
			CONTRACT B-42838	PROJECT 1902826

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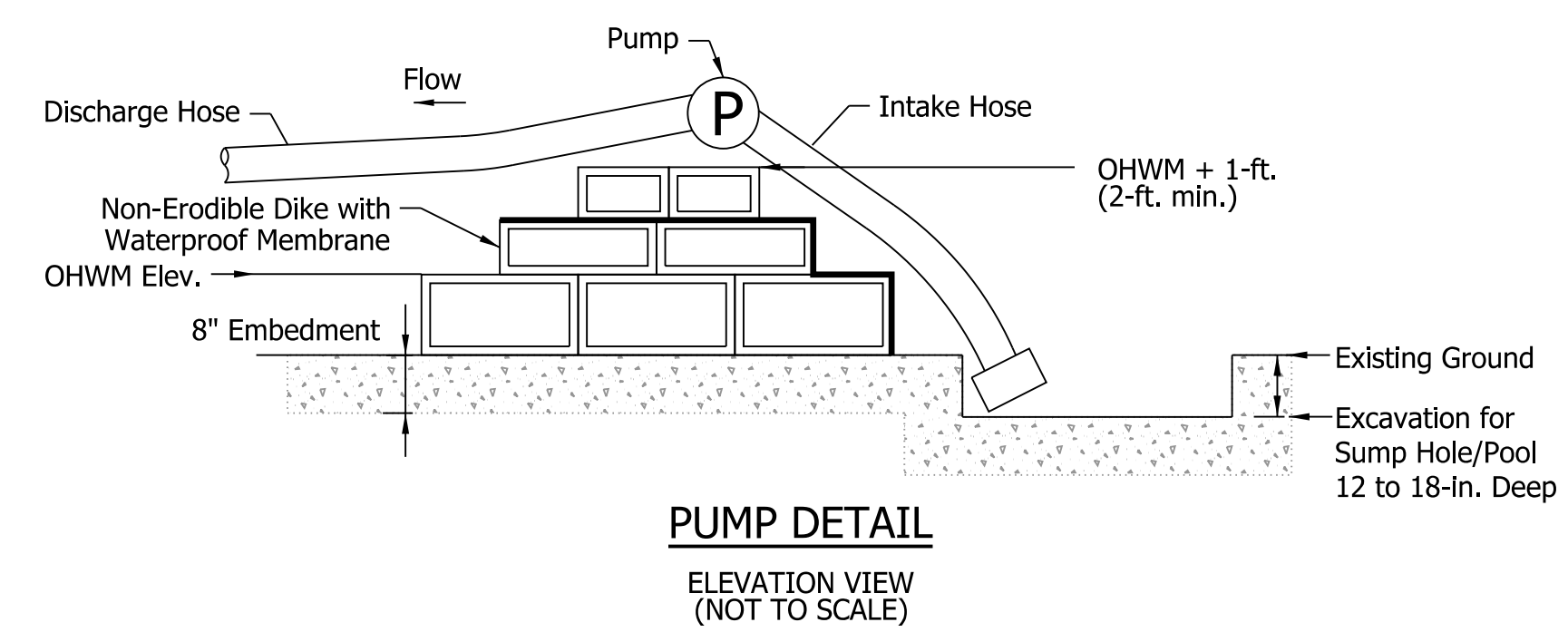
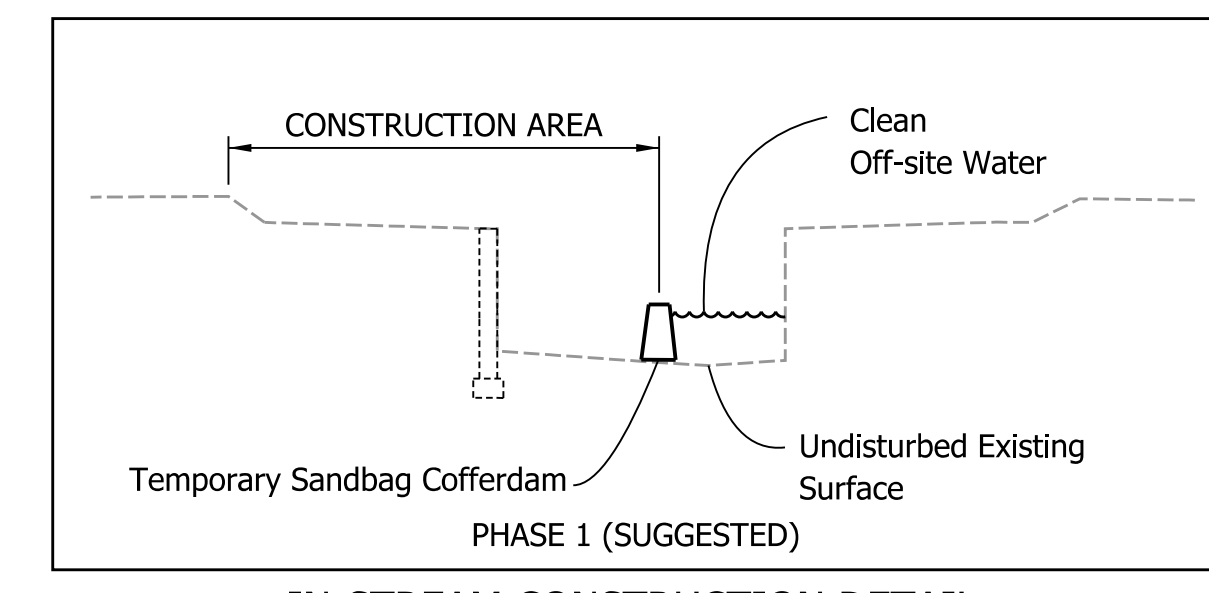


GENERAL NOTES

1. PRIOR TO ANY LAND DISTURBING ACTIVITIES, INSTALL DOWNSTREAM SEDIMENT CONTROL MEASURES IN ALL AREAS.
2. WITHIN DITCHES OR SWALES, EXPOSED SOILS SHALL BE IMMEDIATELY STABILIZED WITH SEEDING AND EROSION CONTROL BLANKET OR SODDING.
3. EXISTING CONTOURS ARE SHOWN AT 1 FT INTERVALS.
4. MAINTAIN EXISTING VEGETATION BEYOND CONSTRUCTION LIMITS.
5. IF REFUELING/MAINTENANCE LOCATION IS TO BE CHANGED, THE LOCAL SWCD MUST BE CONTACTED.
6. POINTS OF INGRESS/EGRESS TO BE MAINTAINED IN ACCORDANCE WITH THE INDIANA STORM WATER QUALITY MANUAL.
7. TRUCKS AND EQUIPMENT ARE TO BE FREE OF DEBRIS AT OR BEFORE THE POINT OF EGRESS.
8. RIPRAP AT BENTS TO BE CONSTRUCTED UTILIZING A SANDBAG COFFERDAM.
9. IN-STREAM CONSTRUCTION ONLY DURING NORMAL OR LOW FLOW.
10. IN-STREAM CONSTRUCTION TO OCCUR ON ONLY ONE SIDE AT A TIME.
11. IN-STREAM CONSTRUCTION NOT TO COMMENCE UNTIL COFFERDAM IS IN PLACE.
12. SEE PUMP DETAIL FOR DEWATERING OF COFFERDAM.

LEGEND

- SF — (SF) TEMPORARY SILT FENCE
- (TS) TEMPORARY SEEDING
- (E) CONSTRUCTION ENTRANCE/EXIT AREA (LOCATION OF INGRESS/EGRESS)
- COFFERDAM (2'-0" WIDE)
- - - CONSTRUCTION LIMITS
- ▒ RIPRAP



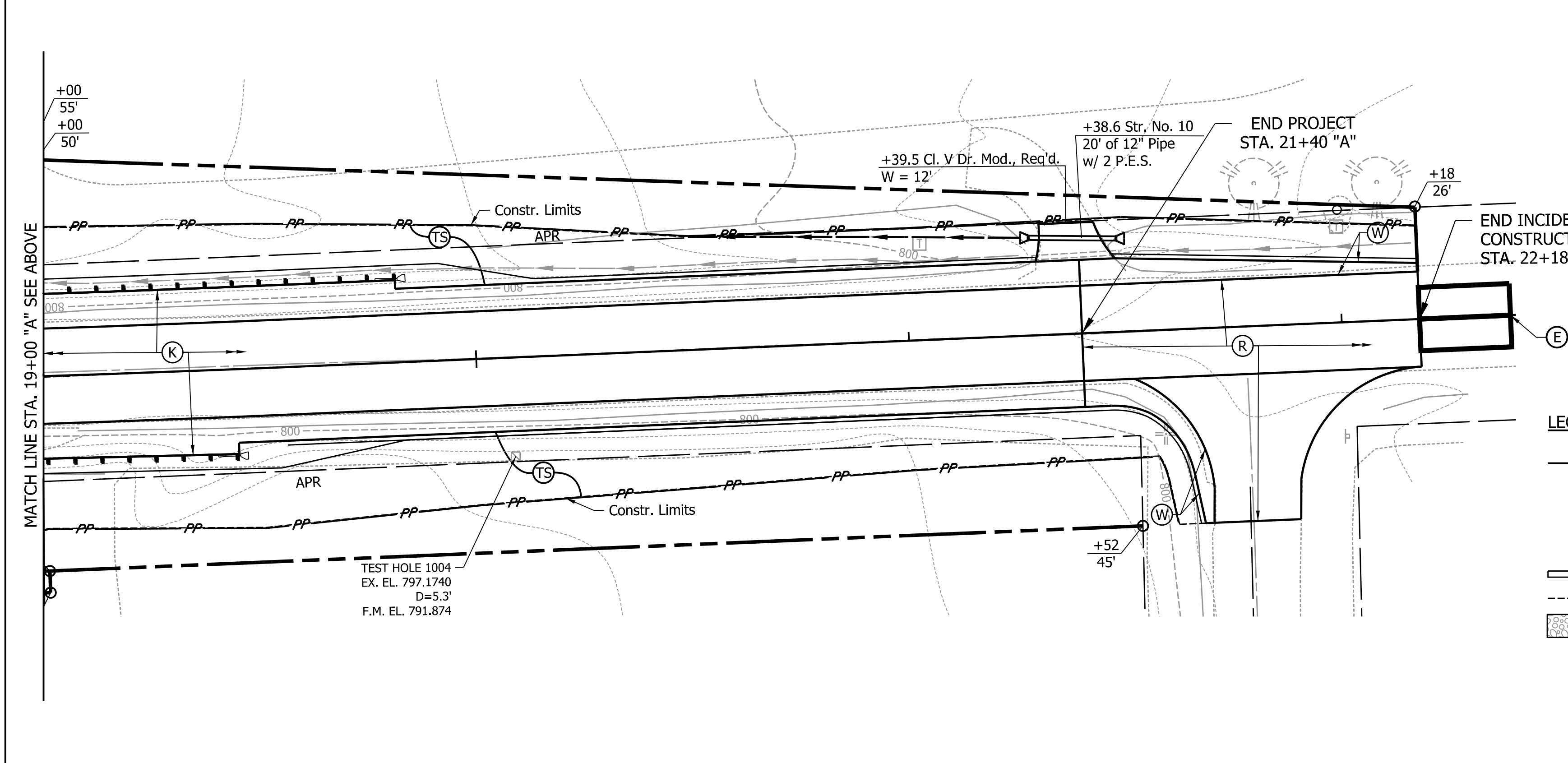
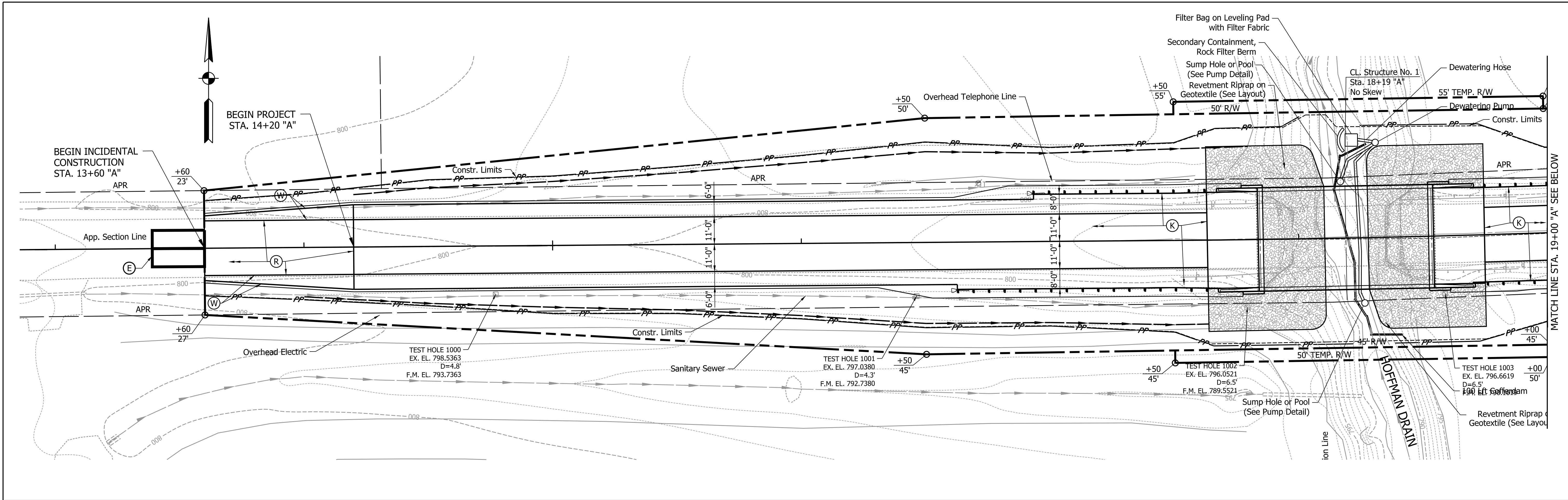
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PFC PLANS

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EOS	DRAWN: EOS	
CHECKED: KRL	CHECKED: KRL	

ALLEN COUNTY HIGHWAY DEPARTMENT
EROSION CONTROL PLAN PHASE 1

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 20'	DESIGNATION 1902826
SURVEY BOOK	SHEETS
CONTRACT B-42838	5 of 19 PROJECT 1902826

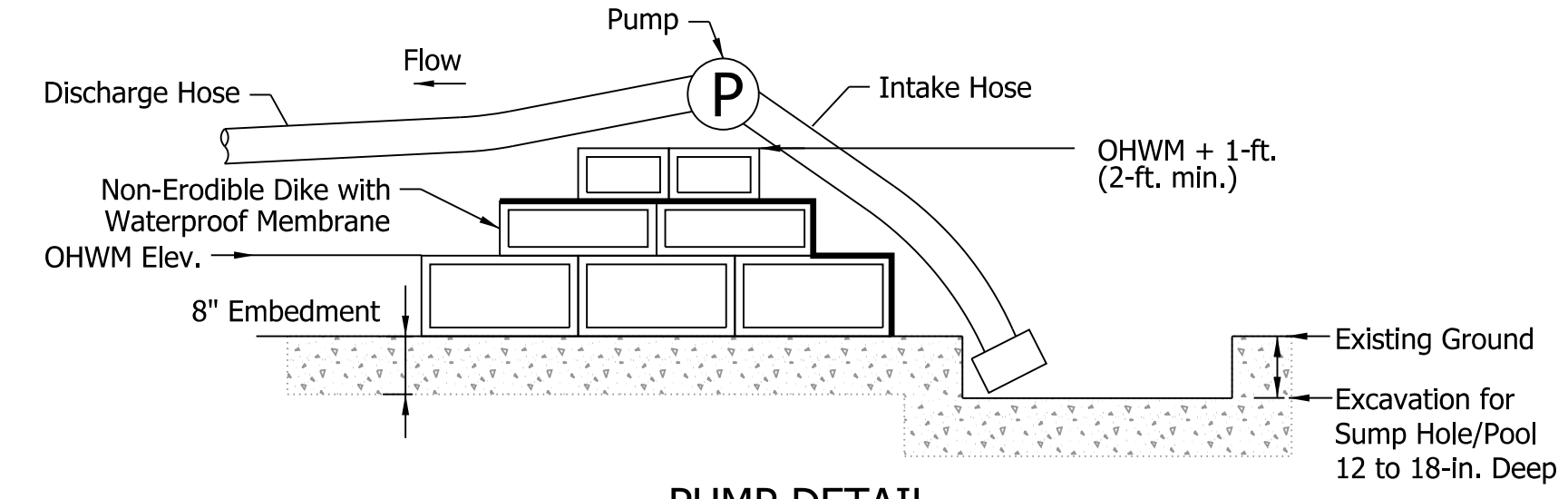
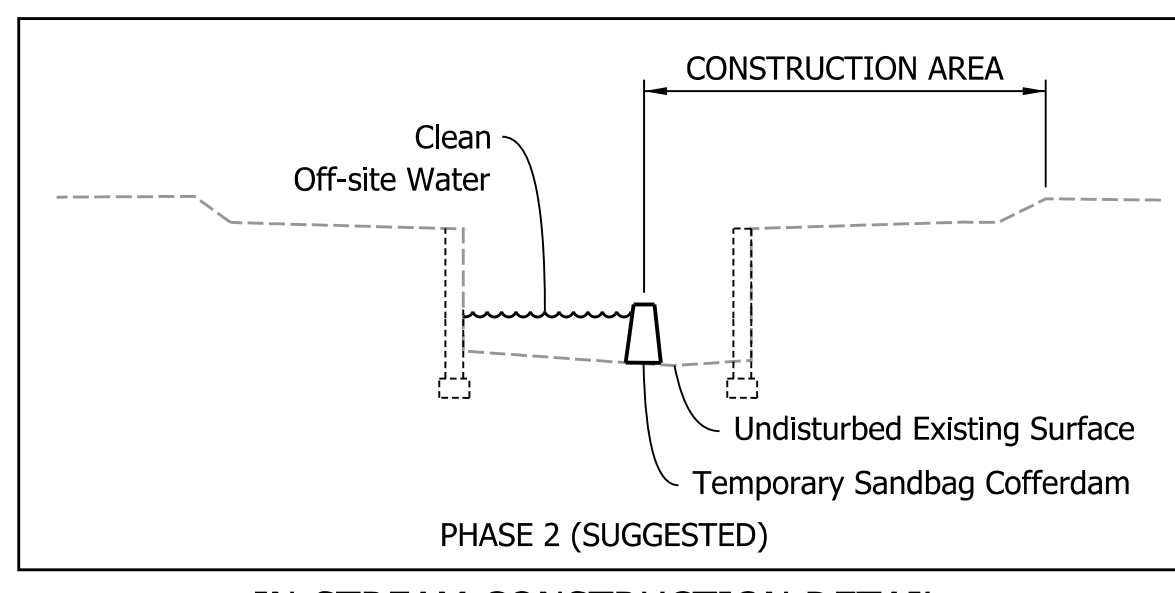


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- COFFERDAM (2'-0" WIDE)
- - - CONSTRUCTION LIMITS
- ▒ RIPRAP



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PFC PLANS

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EOS	DRAWN: EOS	
CHECKED: KRL	CHECKED: KRL	

ALLEN COUNTY HIGHWAY DEPARTMENT	
EROSION CONTROL PLAN PHASE 2	

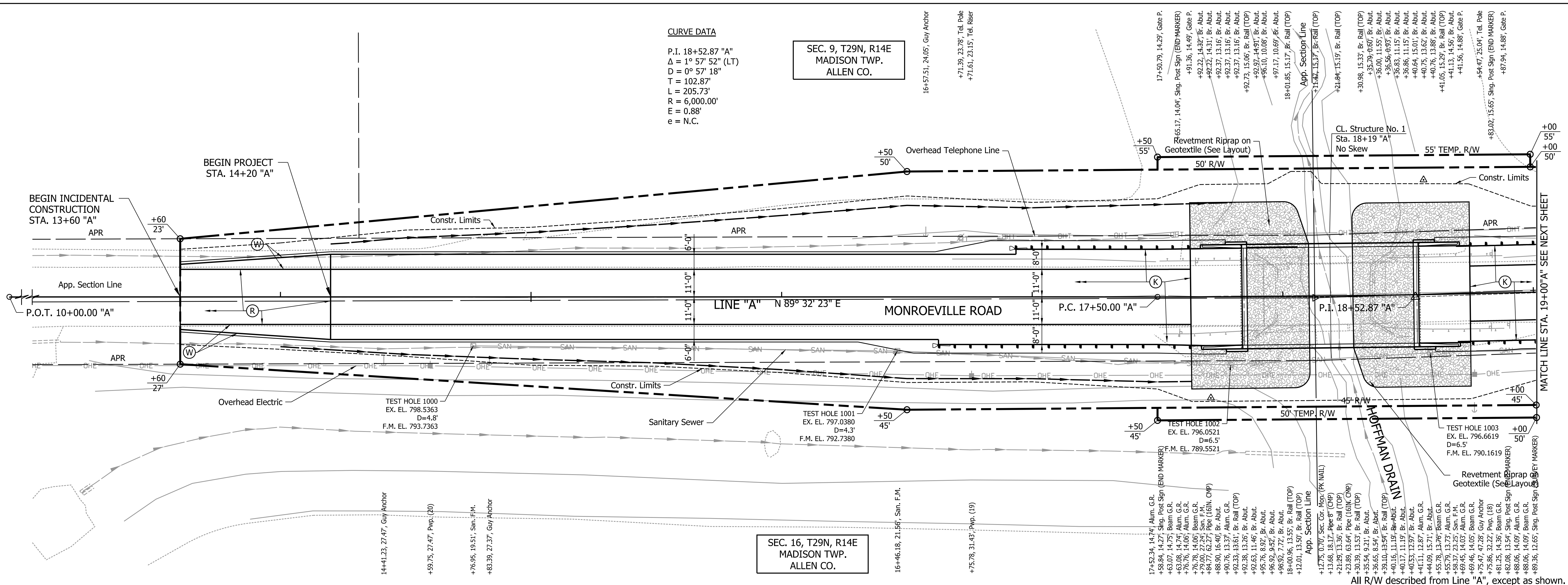
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	02-00277 B
VERTICAL SCALE	DESIGNATION
1" = 20'	1902826
SURVEY BOOK	SHEETS
	6 of 19
CONTRACT	PROJECT
B-42838	1902826

CURVE DATA

P.I. 18+52.87 "A"
 $\Delta = 1^\circ 57' 52"$ (LT)
 $D = 0^\circ 57' 18"$
 $T = 102.87'$
 $L = 205.73'$
 $R = 6,000.00'$
 $E = 0.88'$
 $e = N.C.$

SEC. 9, T29N, R14E
 MADISON TWP.
 ALLEN CO.

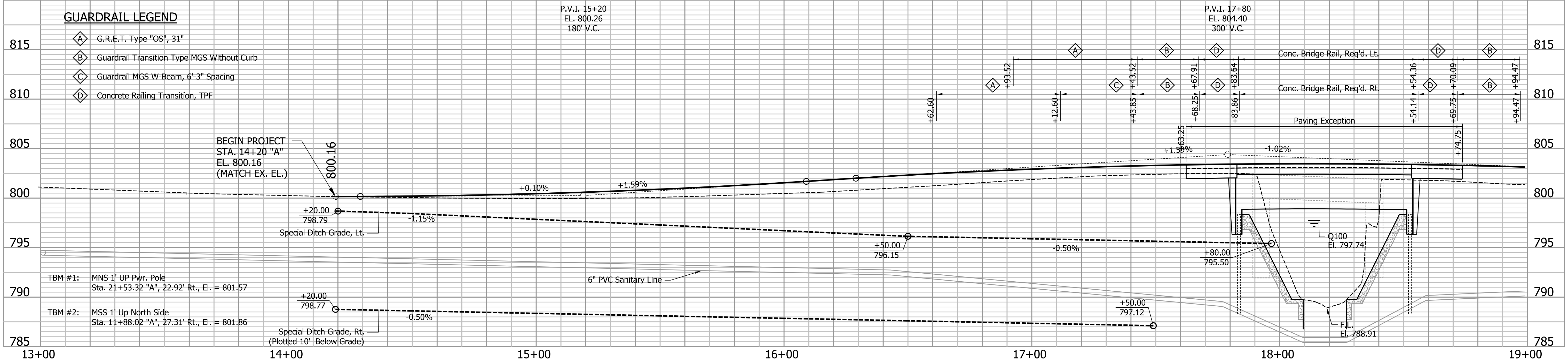
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 MADISON TWP.
 ALLEN CO.



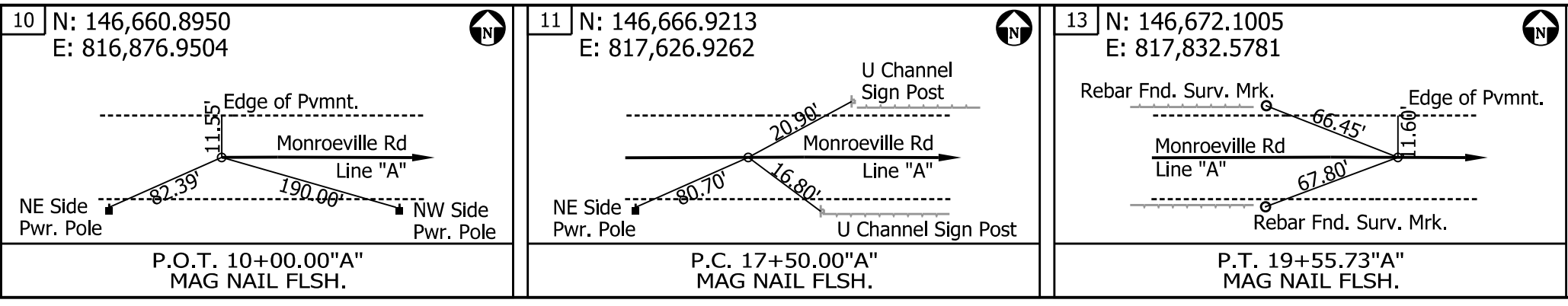
All R/W described from Line "A", except as shown.

GUARDRAIL LEGEND

- G.R.E.T. Type "OS", 31"
- Guardrail Transition Type MGS Without Curb
- Guardrail MGS W-Beam, 6'-3" Spacing
- Concrete Railing Transition, TPF



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PFC PLANS

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED:	MIA	DRAWN: MIA
CHECKED:	KRL	CHECKED: KRL

ALLEN COUNTY
 HIGHWAY DEPARTMENT

PLAN & PROFILE
 LINE "A"

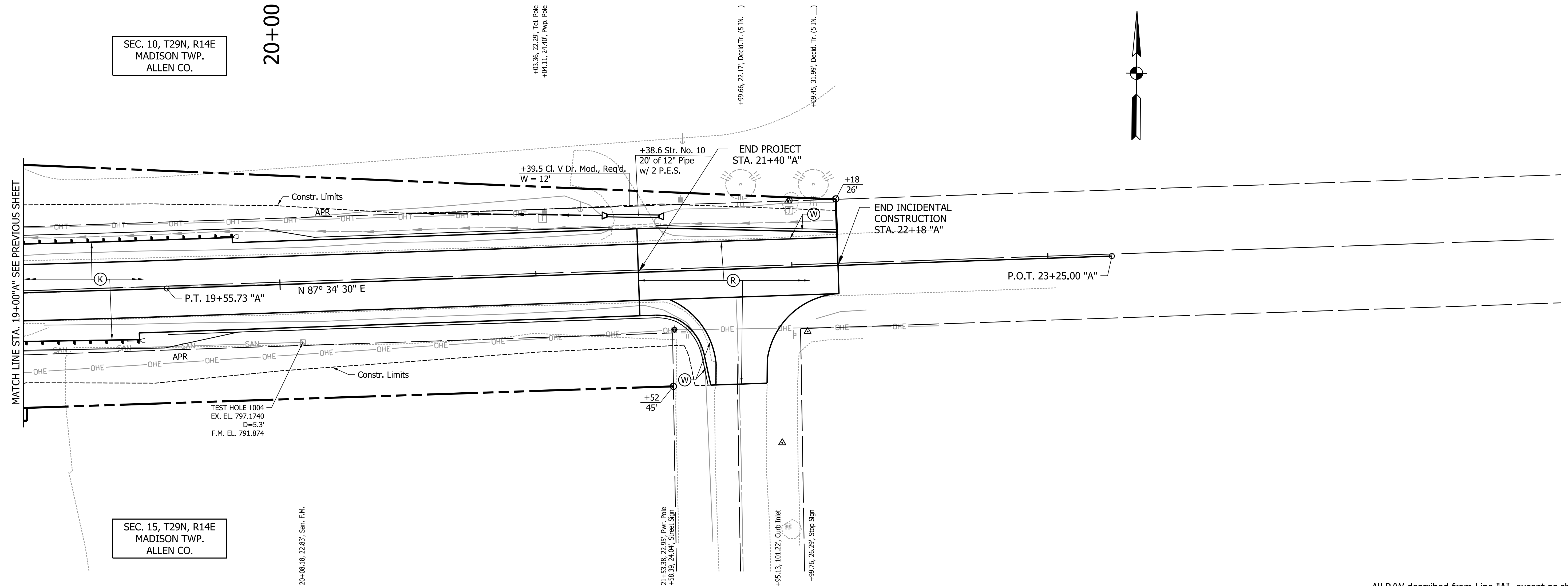
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	02-00277 B
VERTICAL SCALE	DESIGNATION
1" = 5'	1902826
SURVEY BOOK	SHEETS
CONTRACT	7 of 19
B-42838	PROJECT
	1902826

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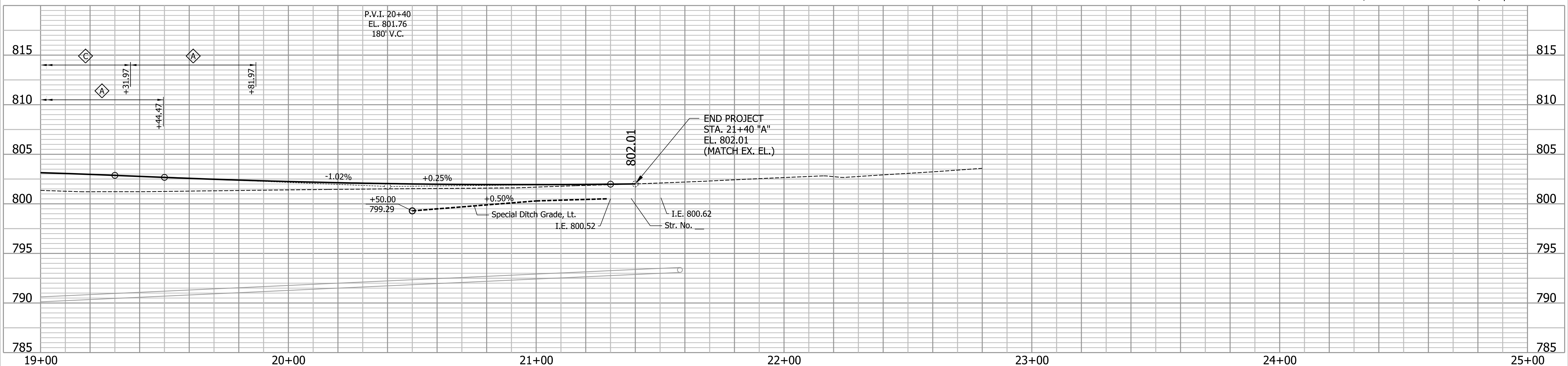
SEC. 10, T29N, R14E
MADISON TWP.
ALLEN CO.

20+00

SEC. 15, T29N, R14E
MADISON TWP.
ALLEN CO.

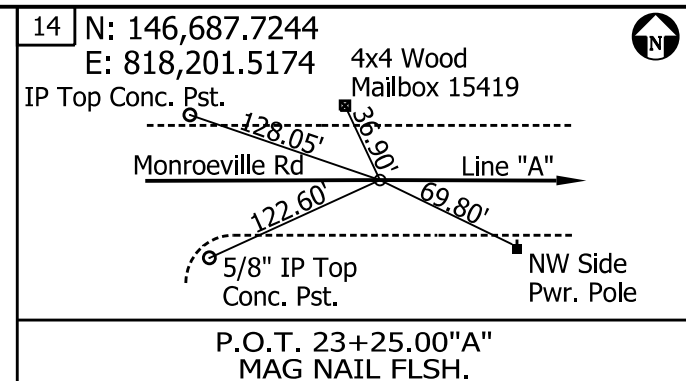
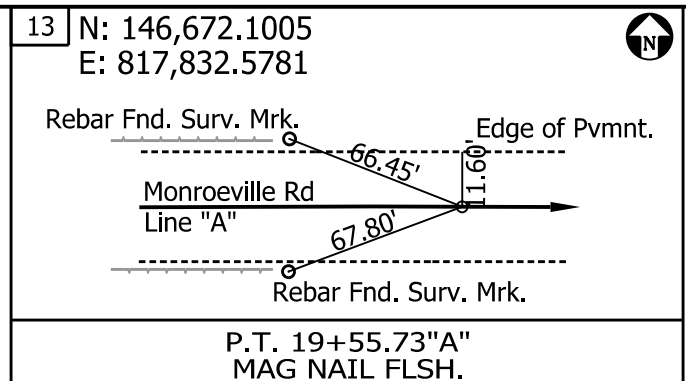


All R/W described from Line "A", except as shown.



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PFC
PLANS

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MIA	DRAWN: MIA	
CHECKED: KRL	CHECKED: KRL	

ALLEN COUNTY
HIGHWAY DEPARTMENT

**PLAN & PROFILE
LINE "A"**

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
SURVEY BOOK	SHEETS
CONTRACT B-42838	8 of 19 PROJECT 1902826

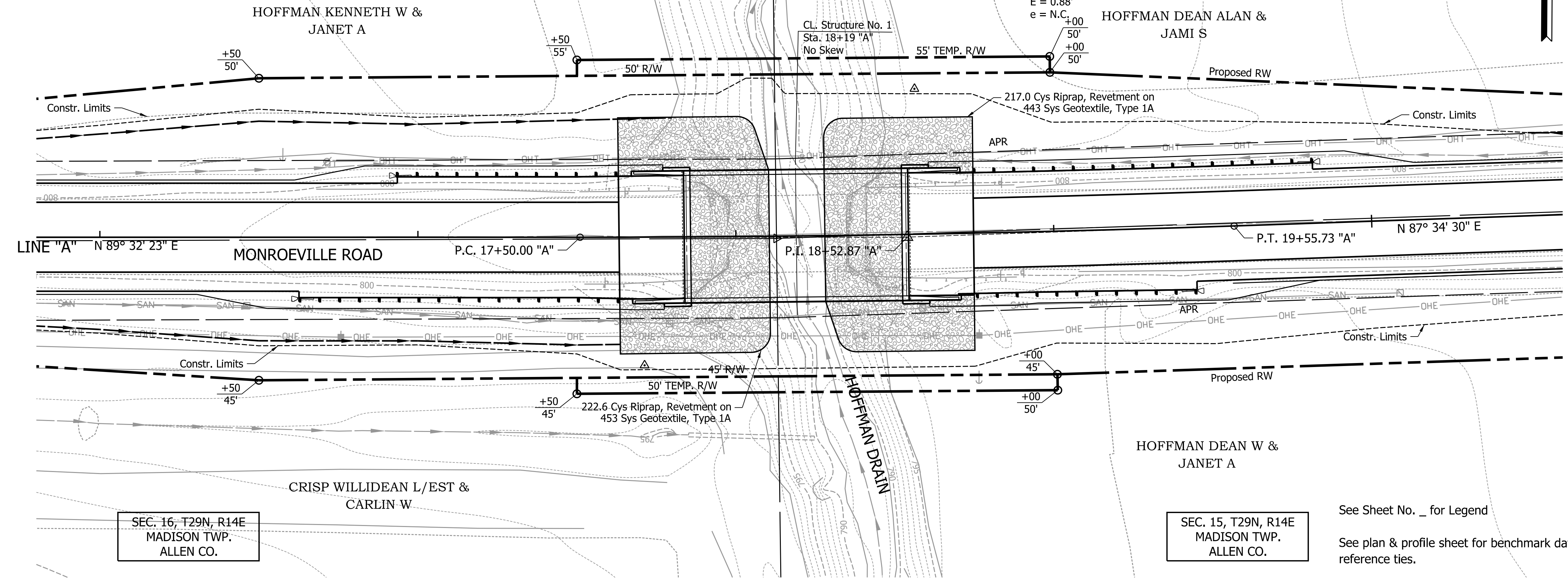
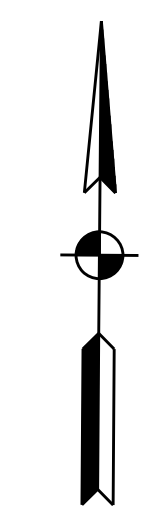
SEC. 9, T29N, R14E
MADISON TWP.
ALLEN CO.

CURVE DATA
P.I. 18+52.87 "A"
 $\Delta = 1^\circ 57' 52''$ (LT)
 $D = 0^\circ 57' 18''$
 $T = 102.87'$
 $L = 205.73'$
 $R = 6,000.00'$
 $E = 0.88'$
 $e = N.C.$

SEC. 10, T29N, R14E
MADISON TWP.
ALLEN CO.

EXISTING STRUCTURE

The existing structure is a single span adjacent concrete box beam bridge on concrete abutments with an overall length of 49.5' and a clear roadway width of 24.0'. The bridge was built in 1960. The existing structure is to be removed.



SEC. 16, T29N, R14E
MADISON TWP.
ALLEN CO.

SEC. 15, T29N, R14E
MADISON TWP.
ALLEN CO.

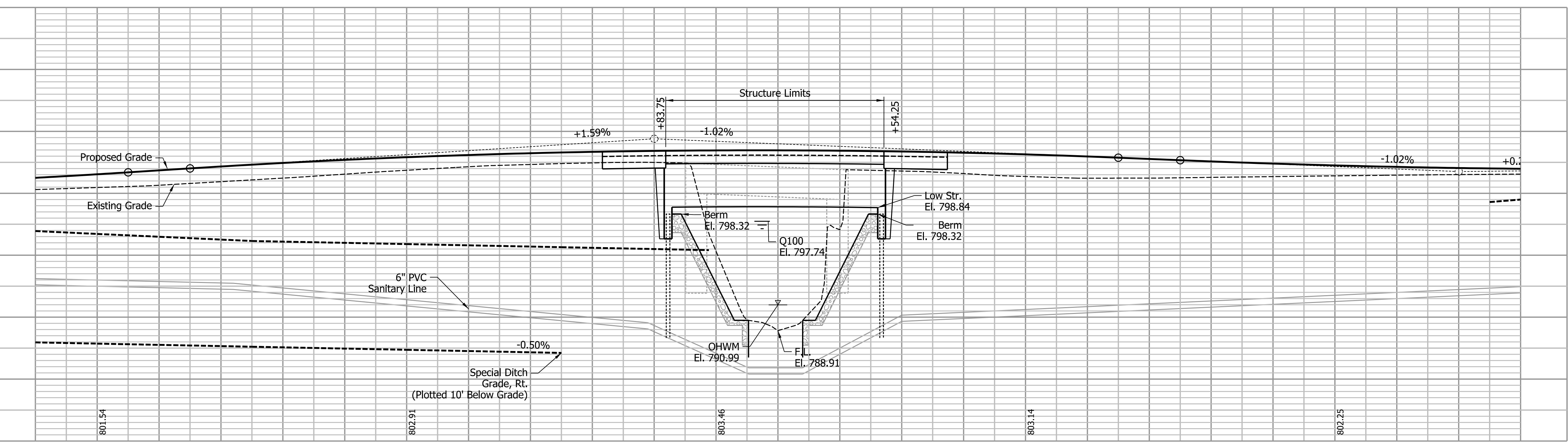
See Sheet No. _ for Legend

See plan & profile sheet for benchmark data and reference ties.

All R/W described from Line "A", except as shown.

HYDRAULIC DATA

Drainage Area	11.50 sq mi
Q100 Discharge	1,035 cfs
Elevation @ Q100	797.74 ft
Backwater	0.23 ft
Velocity @ Q100	5.21 fps
Waterway Opening Provided Below Q100	310.80 sq ft
Low Structure Elevation	798.84 ft
Existing Waterway Opening Below Q100	296.40 sq ft
Existing Backwater	0.27 ft
Existing Low Structure Elevation	799.54 ft
Low Scour Elevation Q100	787.52 ft
Low Scour Elevation Q500	786.02 ft



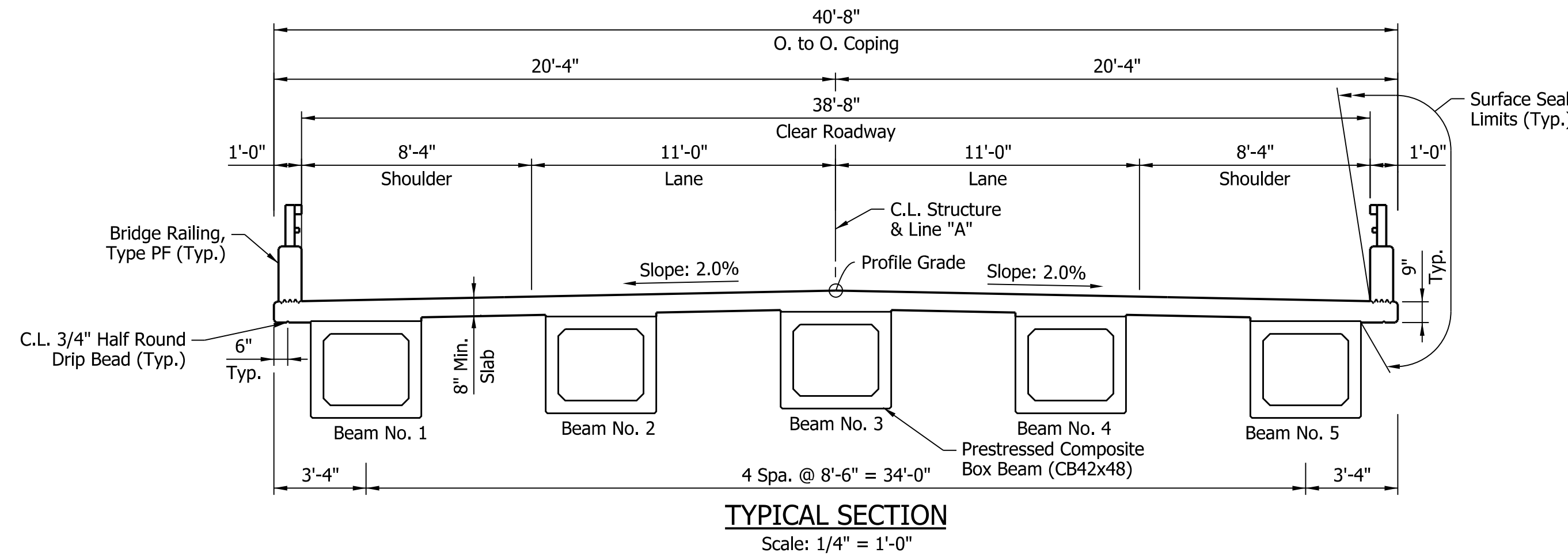
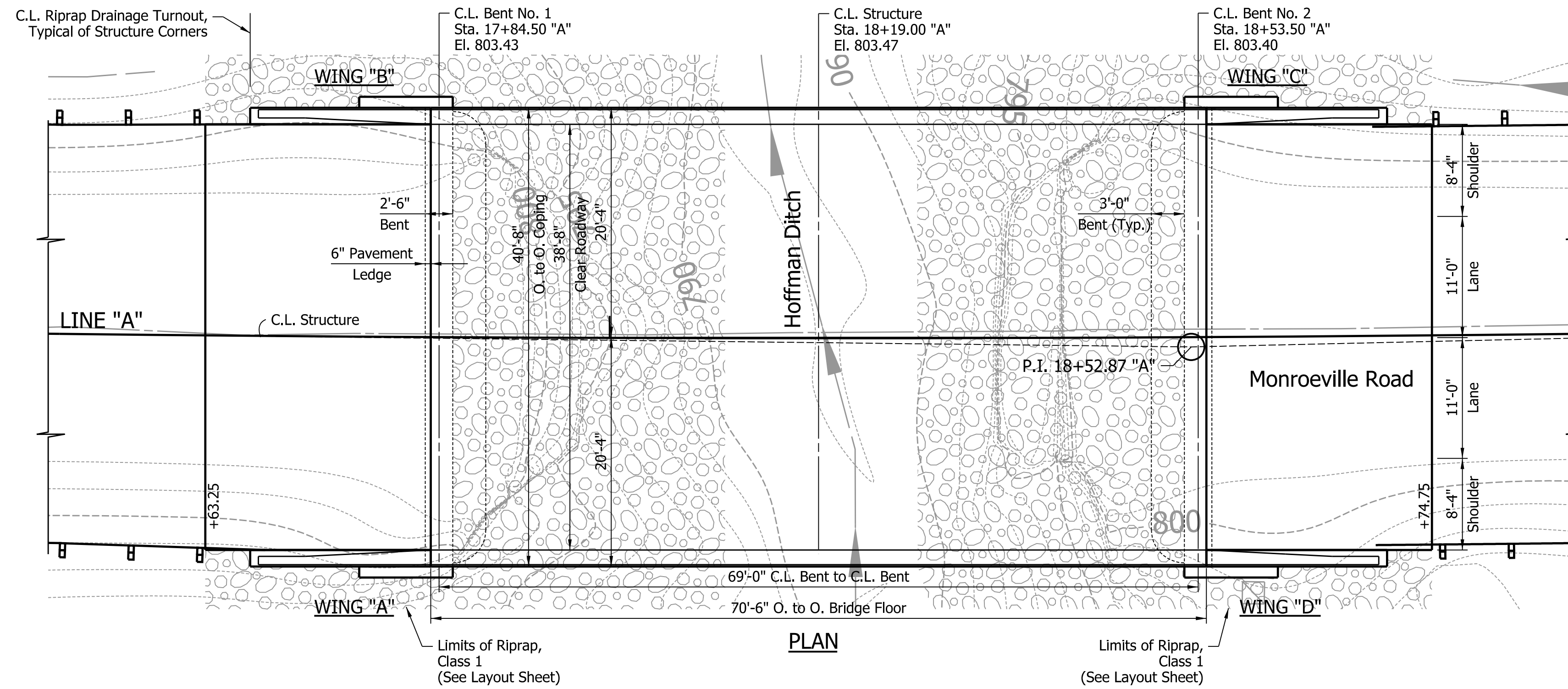
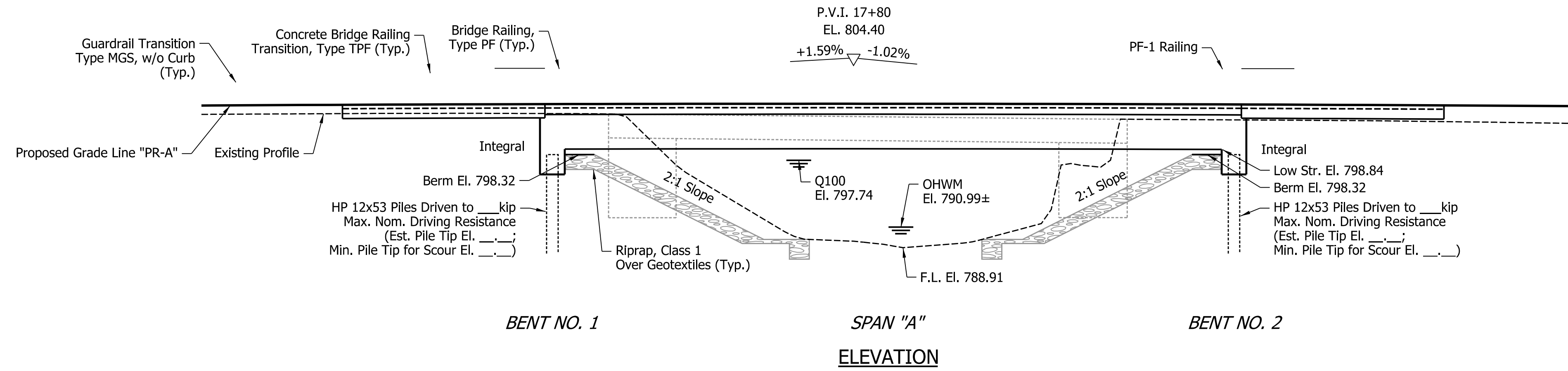
**PRESTRESSED COMPOSITE
BOX BEAM CB42x48 BRIDGE
SINGLE SPAN 69'-0"
38'-8" CLEAR ROADWAY, NO SKEW
MONROEVILLE ROAD OVER HOFFMAN DRAIN
ALLEN COUNTY**

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PFC PLANS	RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____	ALLEN COUNTY HIGHWAY DEPARTMENT		HORIZONTAL SCALE 1" = 20'	BRIDGE FILE 02-00277 B	
	DESIGNED: _____	MIA	DRAWN: _____	MIA	LAYOUT		VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
	CHECKED: _____	KMK	CHECKED: _____	KMK			SURVEY BOOK	SHEETS 9 of 19
							CONTRACT B-42838	PROJECT 1902826

STRUCTURE TO BE BUILT ON 300' VERTICAL CURVE



DESIGN DATA:

LIVE LOAD: Superstructure and substructure designed for HL-93 loading, in accordance with the AASHTO LRFD Bridge Design Specifications, 8th Edition, 2017 and subsequent interims.

DEAD LOAD: Actual weight plus 35 psf for future wearing surface and 15 psf for permanent metal deck forms.

FLOOR SLAB: Slab designed with a 7 1/2" structural depth plus 1/2" sacrificial wearing surface.

DESIGN STRESSES:

Reinforcing Steel (Grade 60) $f_y = 60,000$ PSI.
Class "A" Concrete Strength $f'_c = 3500$ PSI.
Class "B" Concrete Strength $f'_c = 3000$ PSI.
Class "C" Concrete Strength $f'_c = 4000$ PSI.

GENERAL NOTES

Reinforcing steel covering shall be 2 1/2" in top and 1" min. in bottom of floor slab, 3" in footings except bottom steel which shall be 4", 2" in all other parts unless noted.

Surface seal all faces of bridge rails, face of deck, coping, underside of bridge slab from coping to face of top flange exterior beam, bridge approach and railing transitions. (Total Estimated Qty. = 1,569 Sft.)

Chamfer exposed edges 1" unless noted.

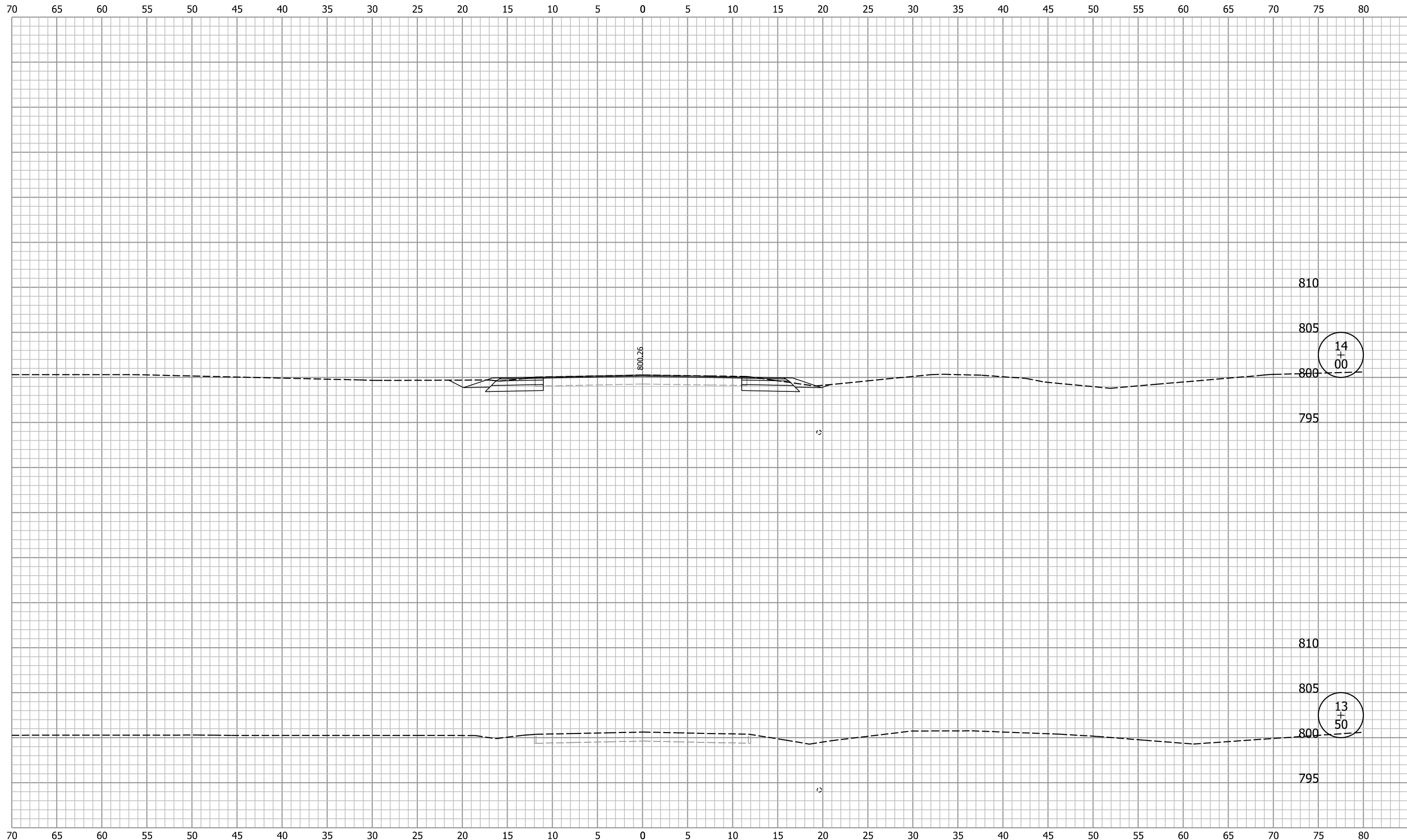
PRESTRESSED CONCRETE BOX BEAM BRIDGE
Single Span @ 69'-0"
38'-8" Clear Roadway, No Skew
on Monroeville Road over Hoffman Drain
Allen County

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PFC PLANS	RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	ALLEN COUNTY HIGHWAY DEPARTMENT	HORIZONTAL SCALE 1/8" = 1'-0"	BRIDGE FILE 02-00277 B
	DESIGNED: _____ KMK DRAWN: _____ MHF		VERTICAL SCALE 1/8" = 1'-0"	DESIGNATION 1902826
	CHECKED: _____ KRL CHECKED: _____ KMK	GENERAL PLAN	SURVEY BOOK	SHEETS
			CONTRACT B-42838	10 of 19

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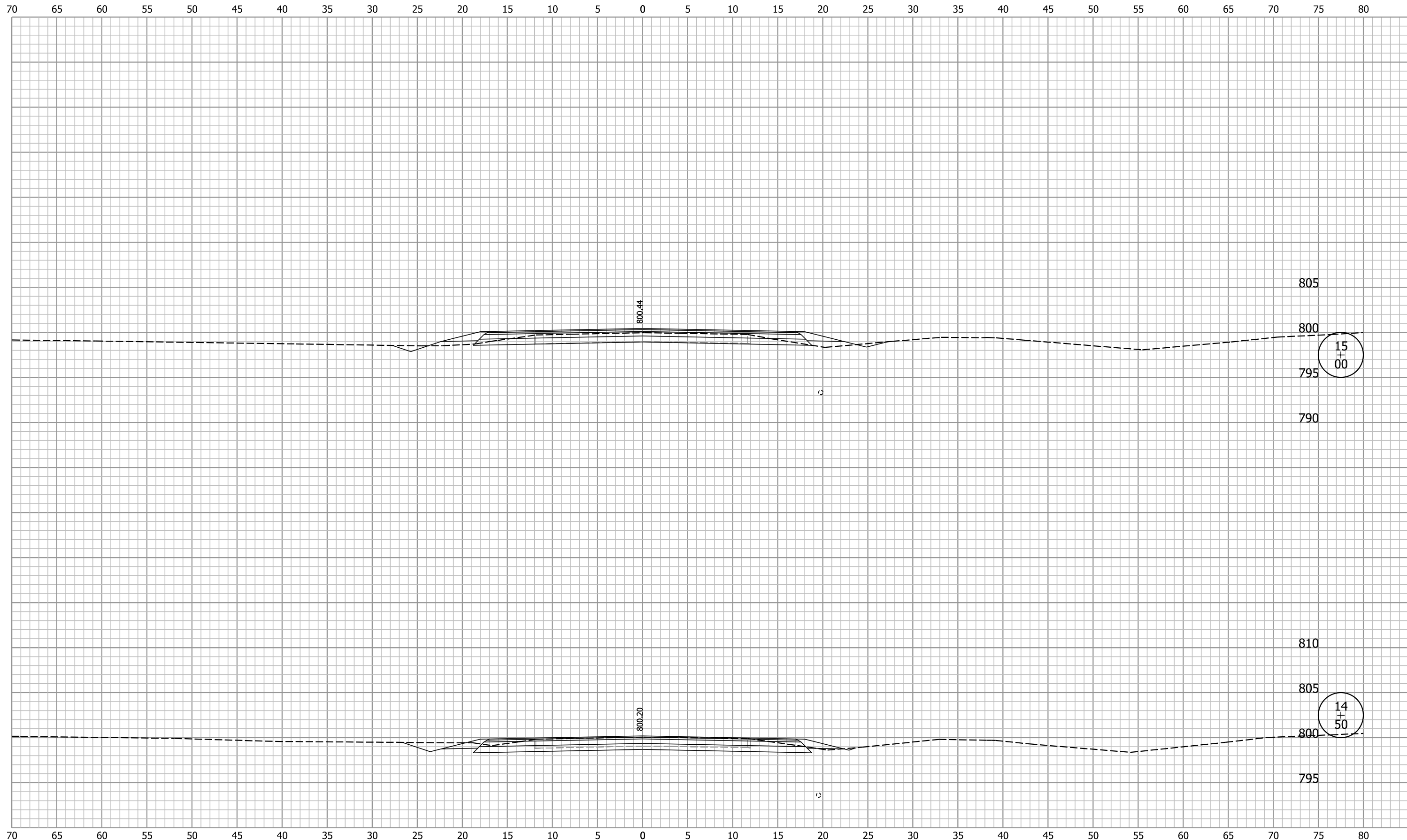
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CHECKED: KRL	CHECKED: KRL

ALLEN COUNTY
HIGHWAY DEPARTMENT

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
SURVEY BOOK	SHEETS 13 of 21
CONTRACT B-42838	PROJECT 1902826

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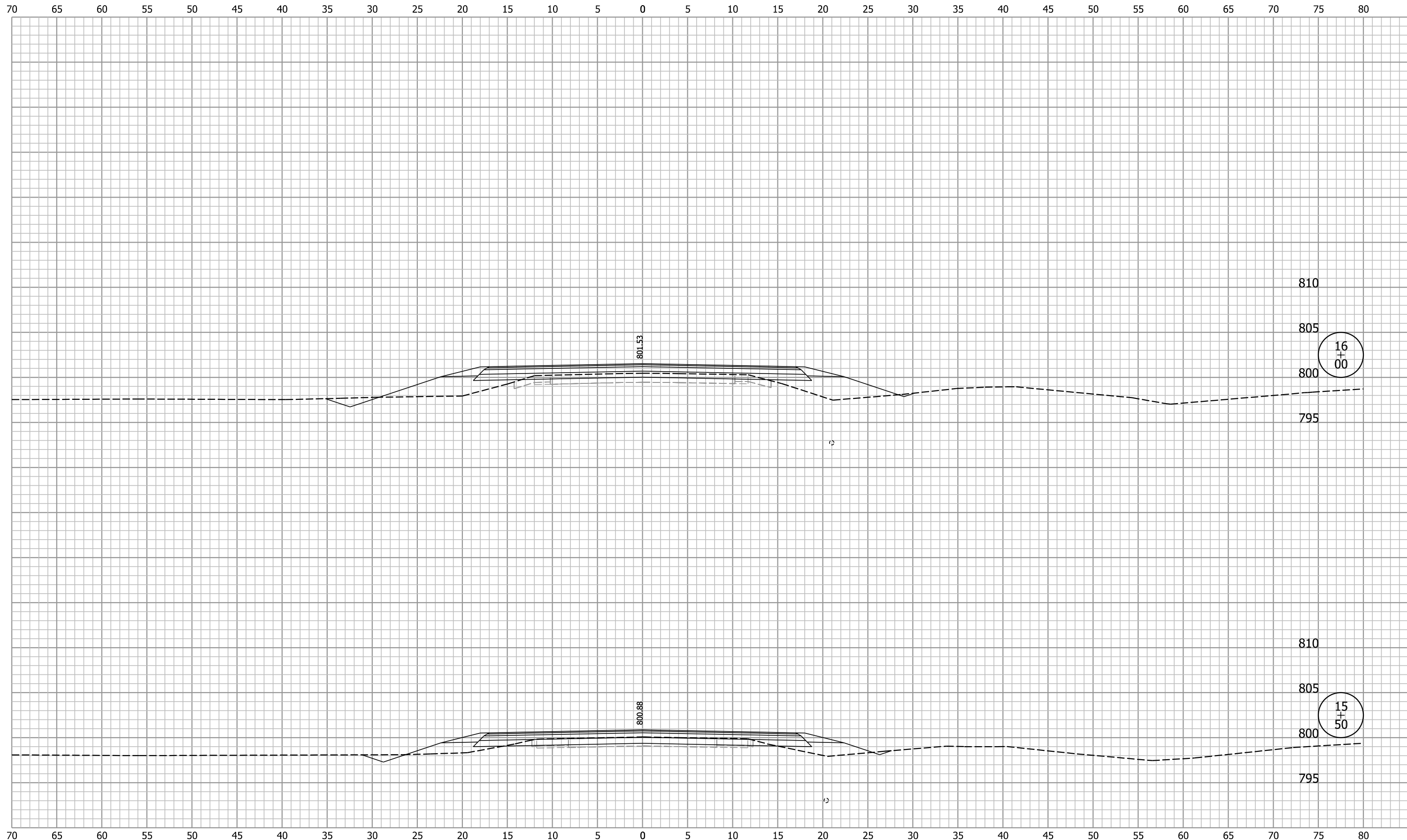
ClarkDietz

DESIGNED: MIA DRAWN: MIA
 CHECKED: KRL CHECKED: KRL

ALLEN COUNTY
 HIGHWAY DEPARTMENT
 CROSS SECTIONS
 LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
SURVEY BOOK	SHEETS 14 of 21
CONTRACT B-42838	PROJECT 1902826

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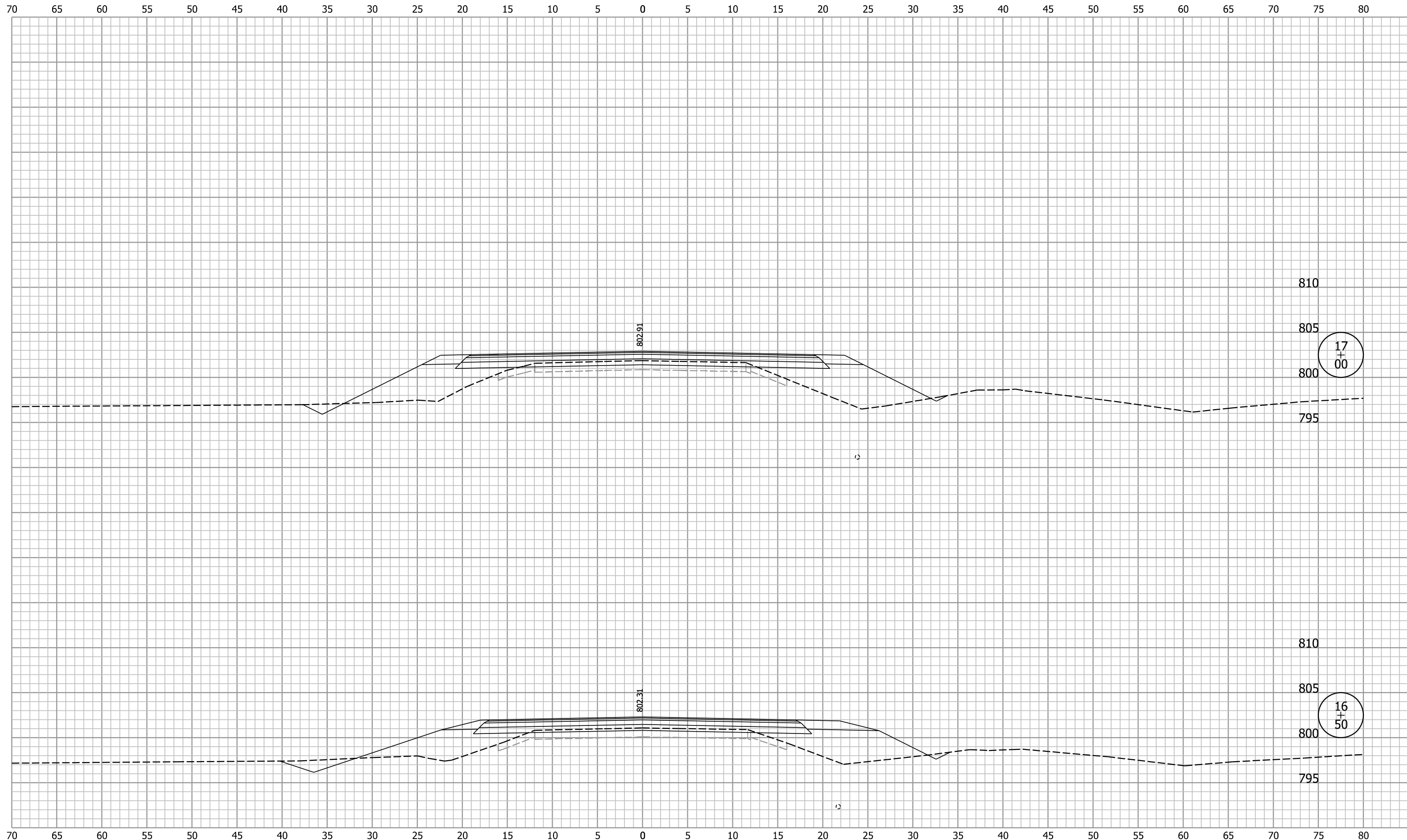
ClarkDietz

DESIGNED: MIA
 CHECKED: KRL
 DRAWN: MIA
 CHECKED: KRL

ALLEN COUNTY
 HIGHWAY DEPARTMENT
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 LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
SURVEY BOOK	SHEETS 15 of 21
CONTRACT B-42838	PROJECT 1902826

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ClarkDietz

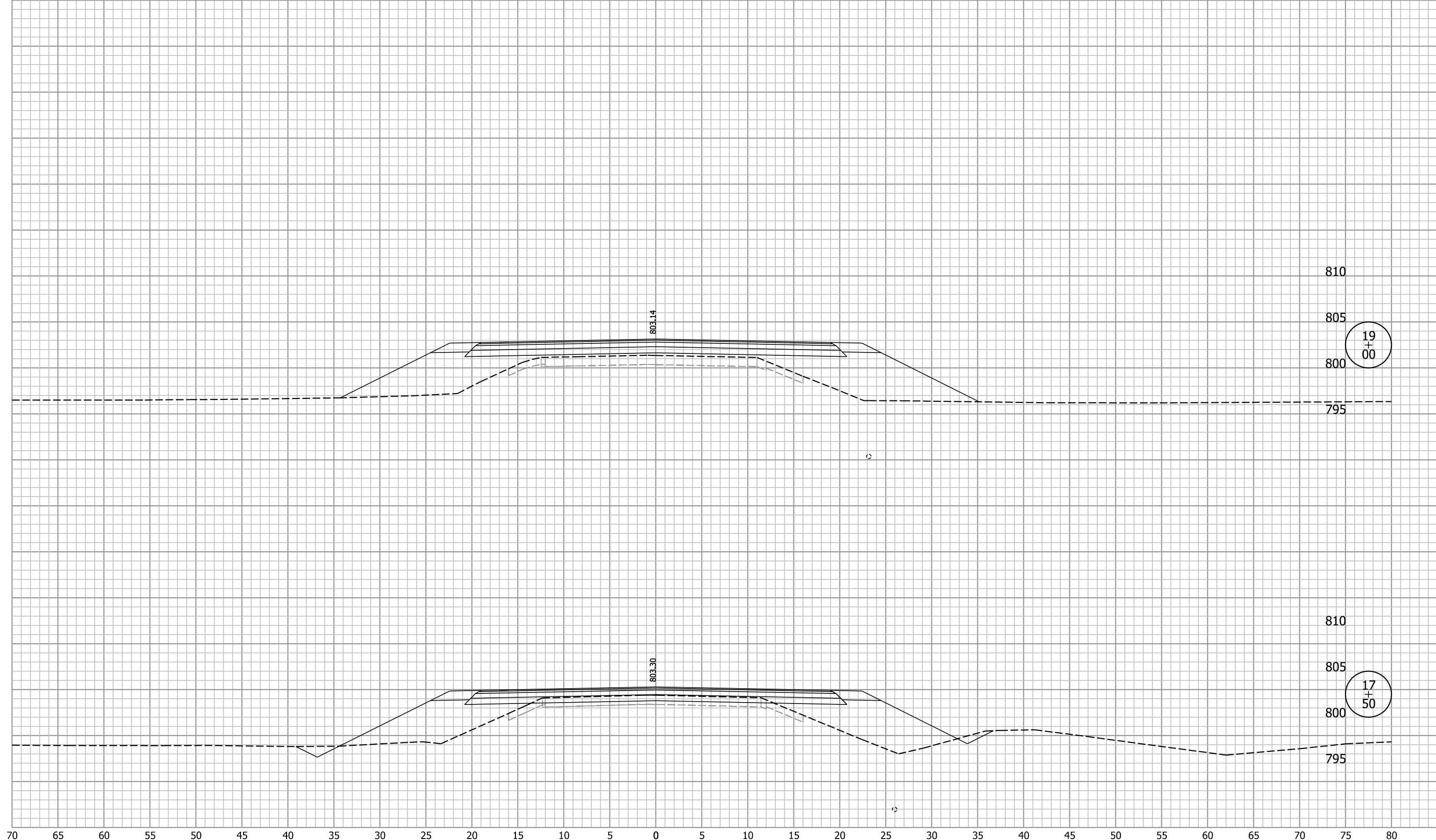
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CHECKED: KRL	CHECKED: KRL

ALLEN COUNTY
HIGHWAY DEPARTMENT

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
SURVEY BOOK	SHEETS 16 of 21
CONTRACT B-42838	PROJECT 1902826

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ClarkDietz

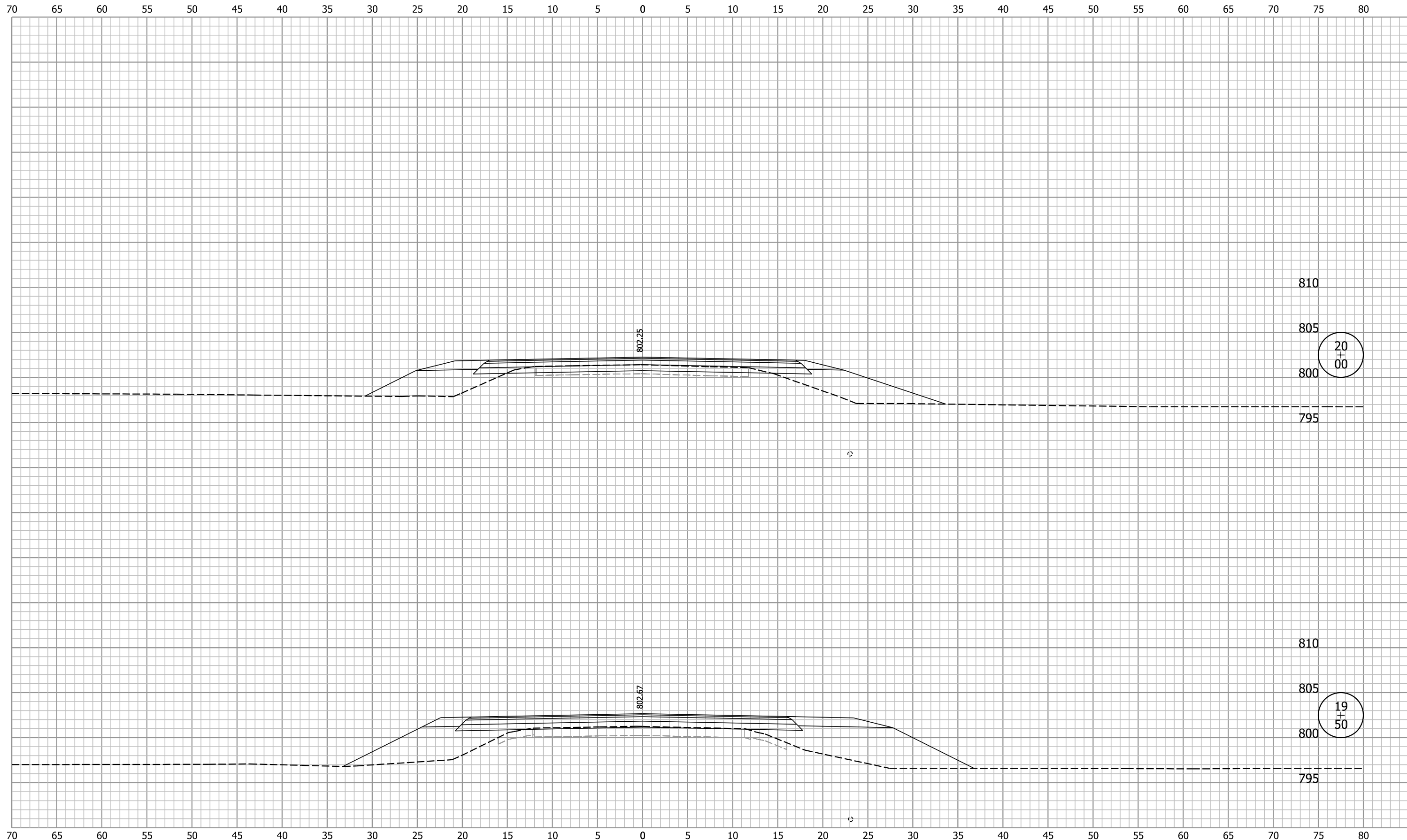
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ALLEN COUNTY
HIGHWAY DEPARTMENT

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
SURVEY BOOK	SHEETS 17 of 21
CONTRACT B-42838	PROJECT 1902826

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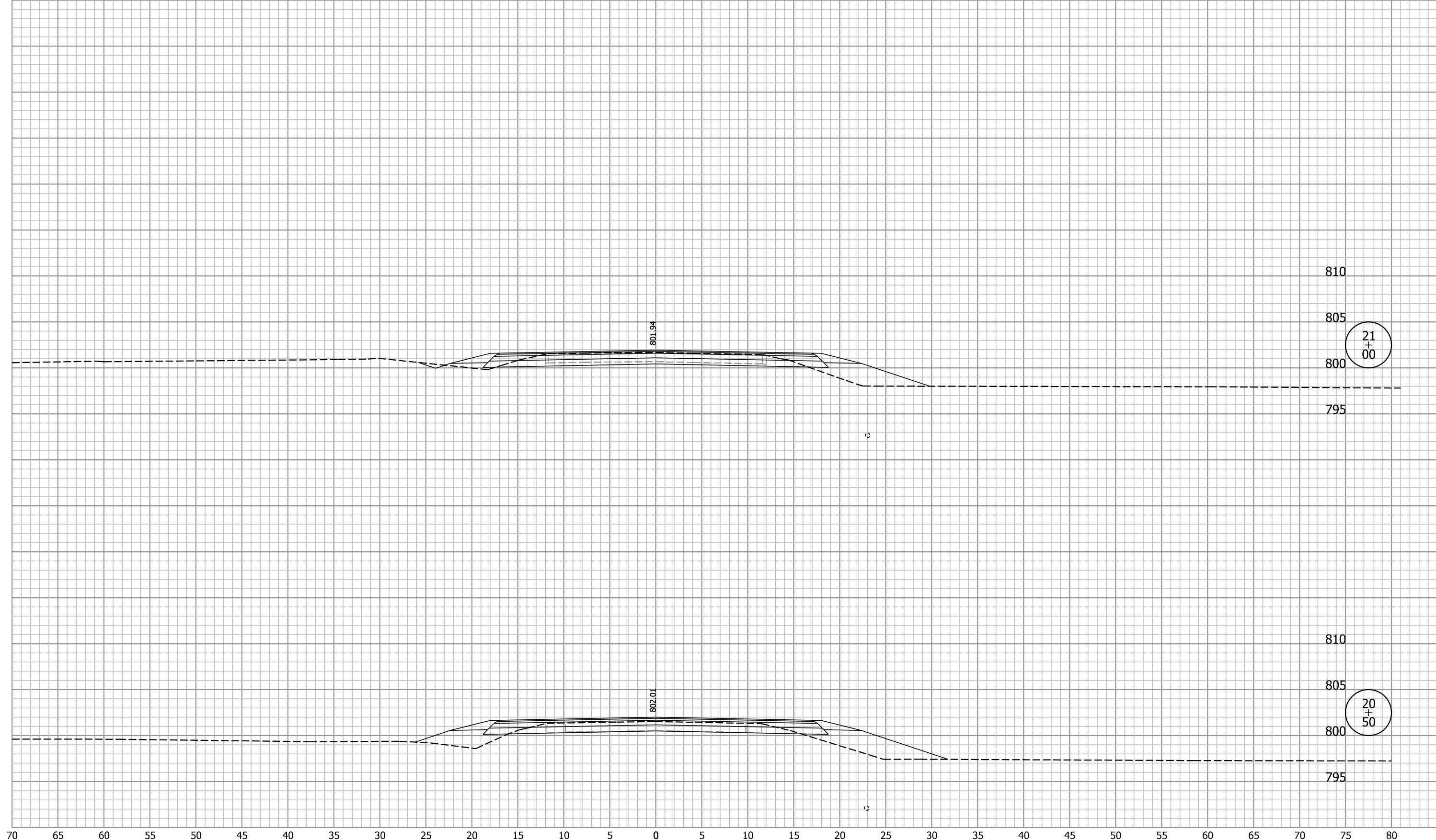
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ALLEN COUNTY
 HIGHWAY DEPARTMENT

CROSS SECTIONS
 LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
SURVEY BOOK	SHEETS 18 of 21
CONTRACT B-42838	PROJECT 1902826

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ClarkDietz

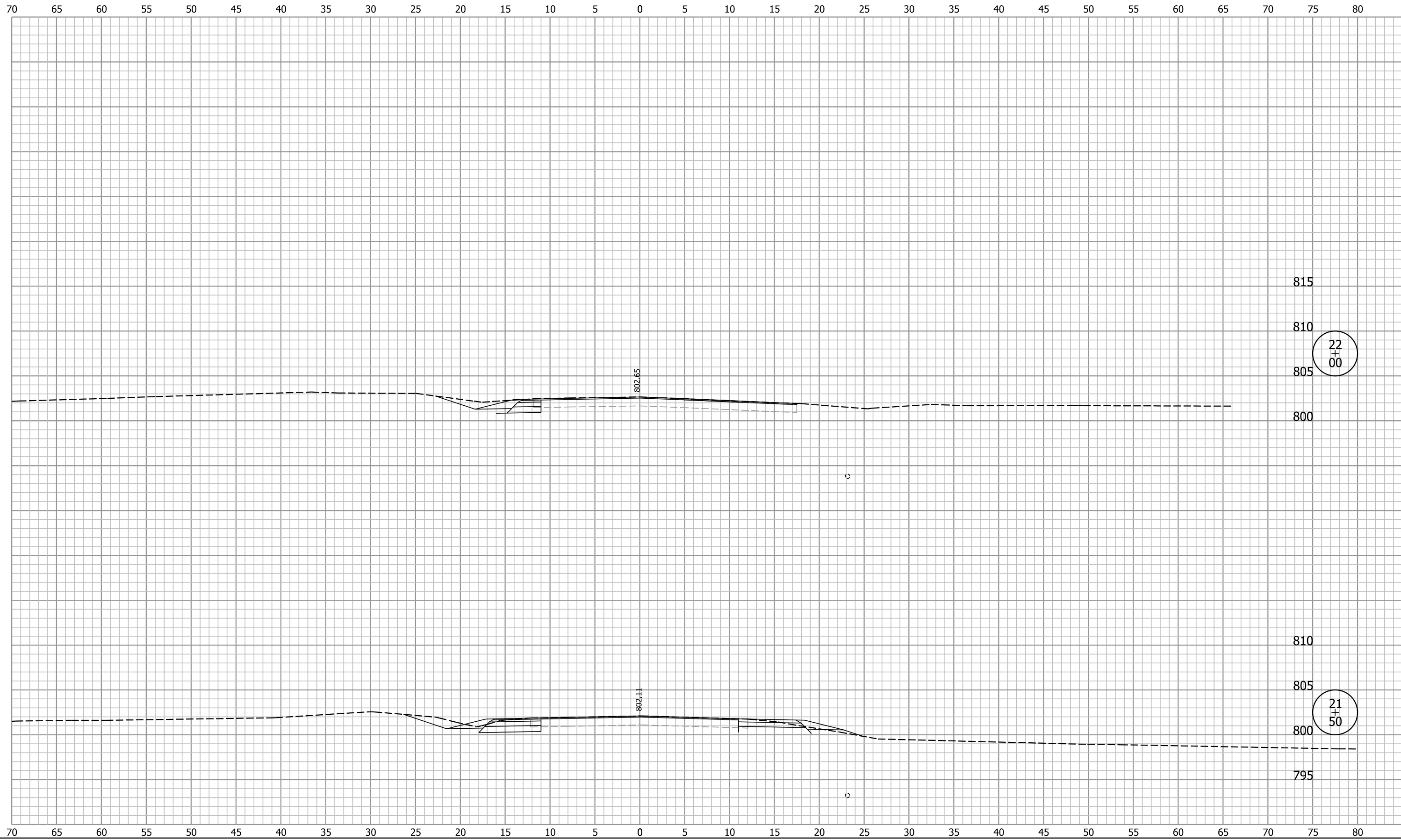
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ALLEN COUNTY
HIGHWAY DEPARTMENT

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
SURVEY BOOK	SHEETS 19 of 21
CONTRACT B-42838	PROJECT 1902826

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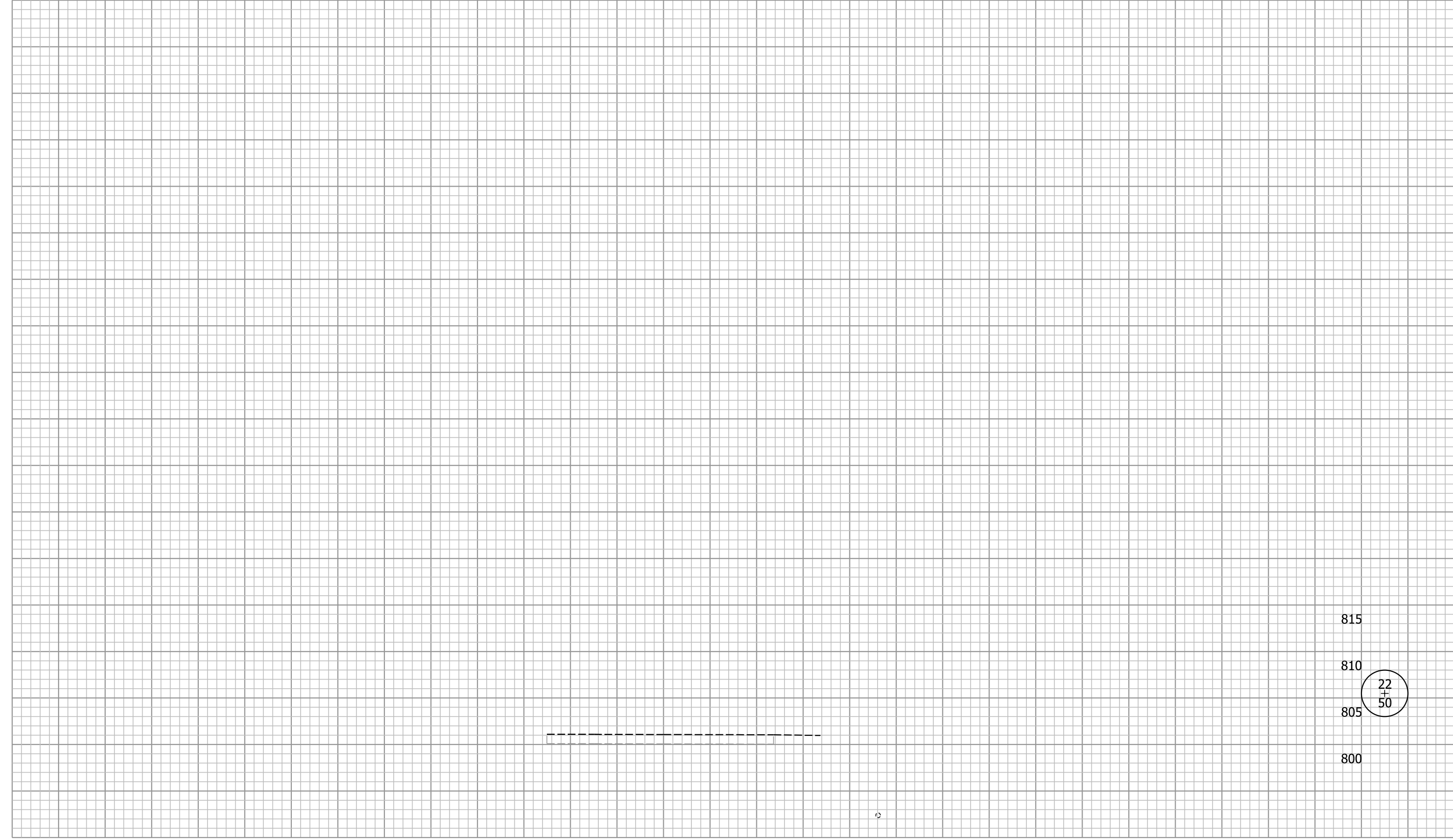
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ALLEN COUNTY
HIGHWAY DEPARTMENT

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
SURVEY BOOK	SHEETS 20 of 21
CONTRACT B-42838	PROJECT 1902826

70 65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80



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ALLEN COUNTY
HIGHWAY DEPARTMENT

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	02-00277 B
VERTICAL SCALE	DESIGNATION
1" = 5'	1902826

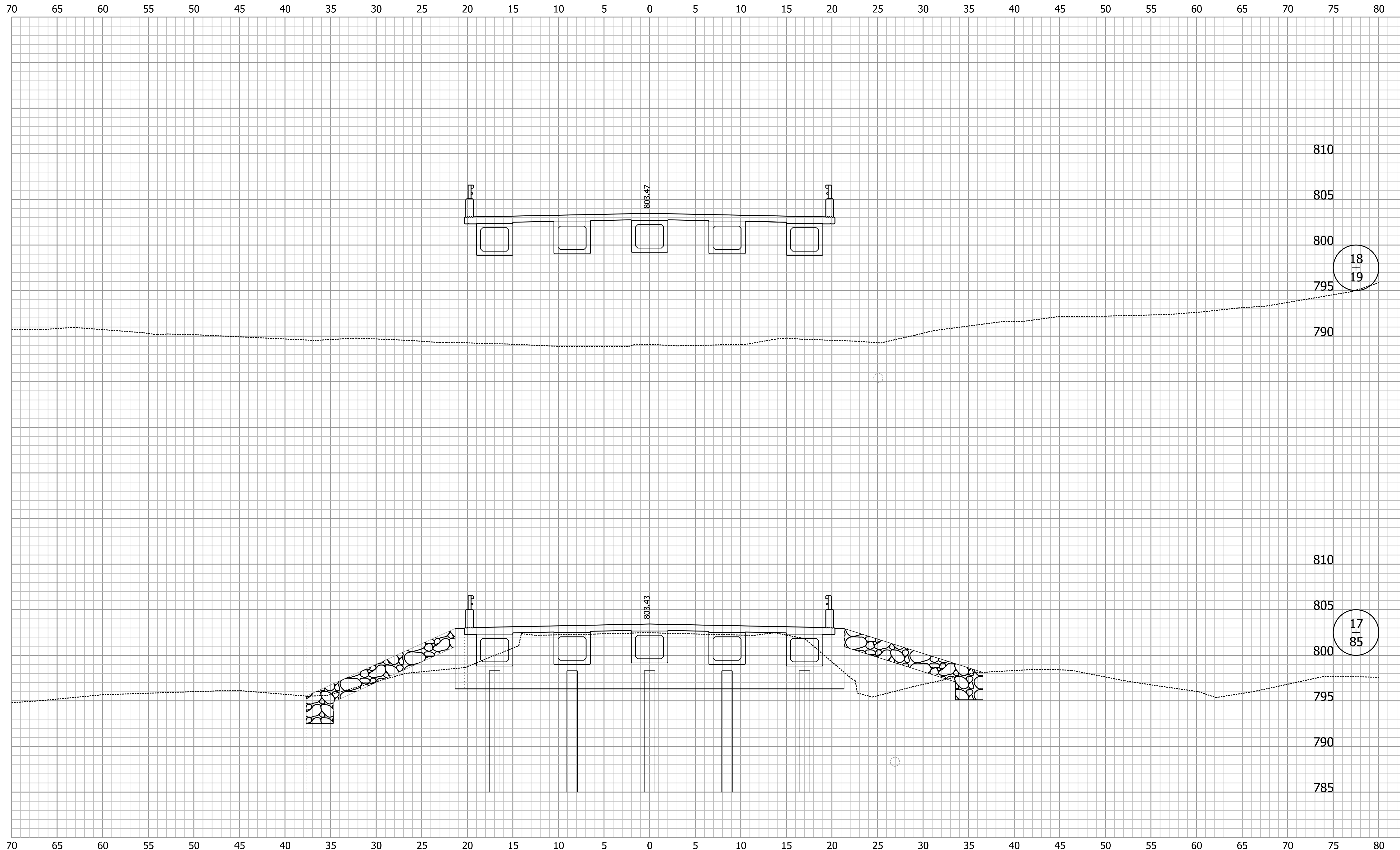
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CROSS SECTIONS
LINE "A"

SURVEY BOOK	SHEETS
	21 of 21
CONTRACT	PROJECT
B-42838	1902826

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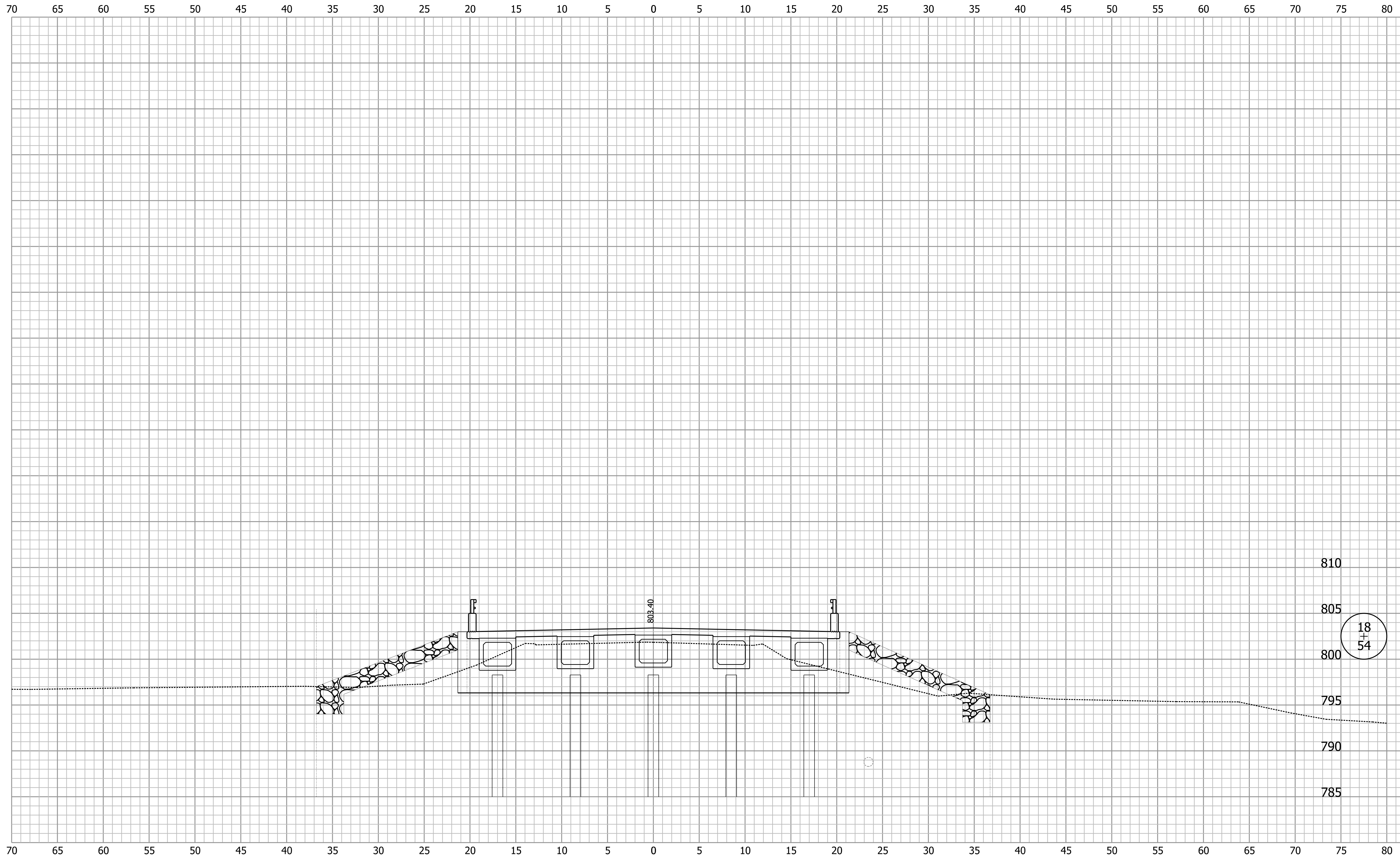
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ALLEN COUNTY
HIGHWAY DEPARTMENT

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
SURVEY BOOK	SHEETS
CONTRACT B-42838	of PROJECT 1902826

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DESIGNED: MIA	DRAWN: MIA
CHECKED: KRL	CHECKED: KRL

ALLEN COUNTY
HIGHWAY DEPARTMENT

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 02-00277 B
VERTICAL SCALE 1" = 5'	DESIGNATION 1902826
SURVEY BOOK	SHEETS of
CONTRACT B-42838	PROJECT 1902826