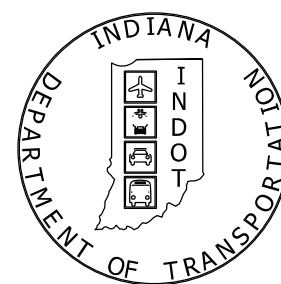


PROJECT	DESIGNATION
1701394	1701394
CONTRACT	BRIDGE FILE
B-42474	224-01-10306

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
224-01-10306	CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE	3 SPANS: 31'-0", 38'-0", 31'-0" SKEW 10° LT.	HOLTHOUSE DITCH	1051+80.60 "A"

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE PLANS

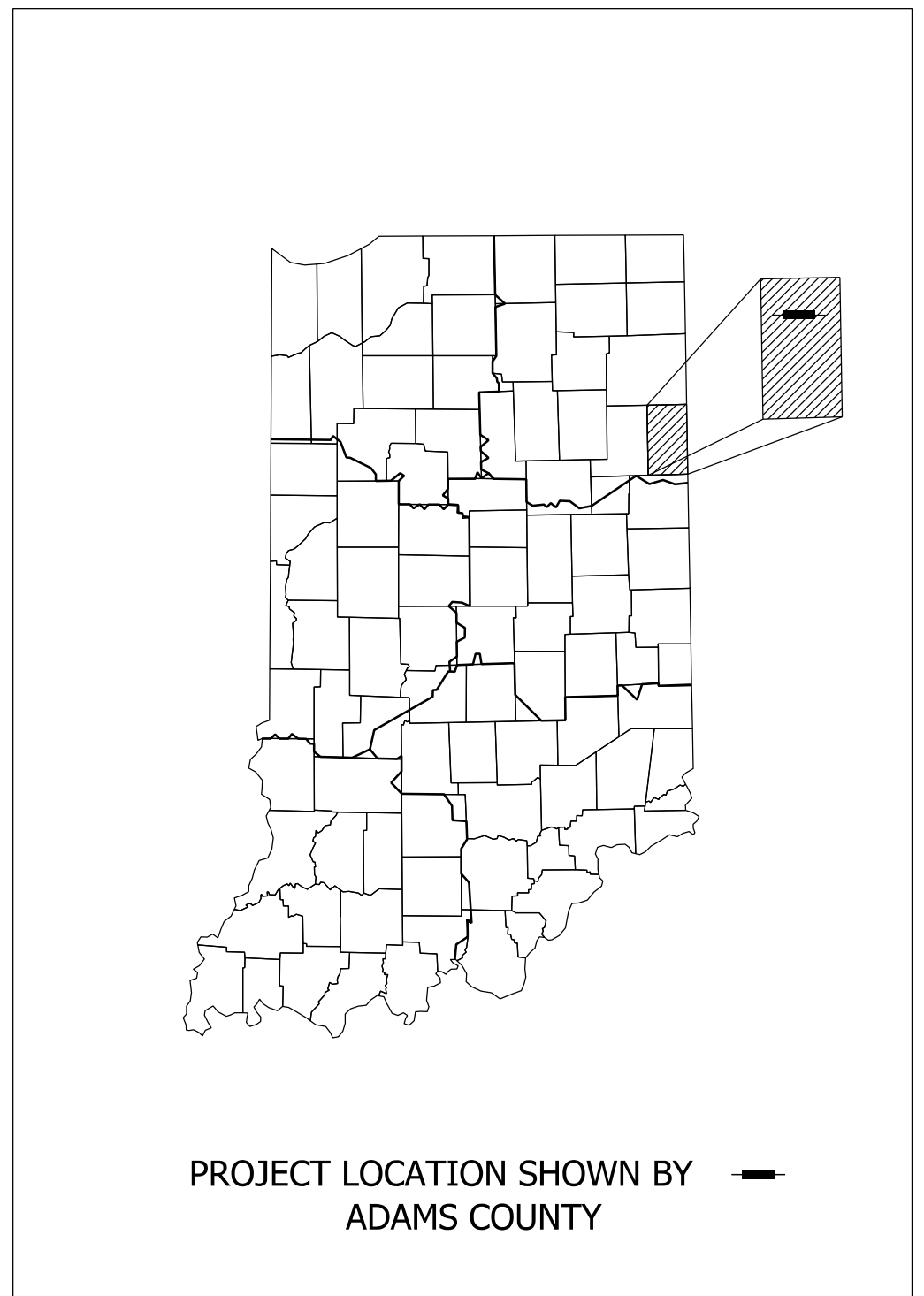
FOR SPANS OVER 20 FEET

ROUTE: U.S. 224 OVER HOLTHOUSE DITCH AT: RP 31+00

PROJECT NO. 1701394 P.E.
1701394 R/W
1701394 CONST.

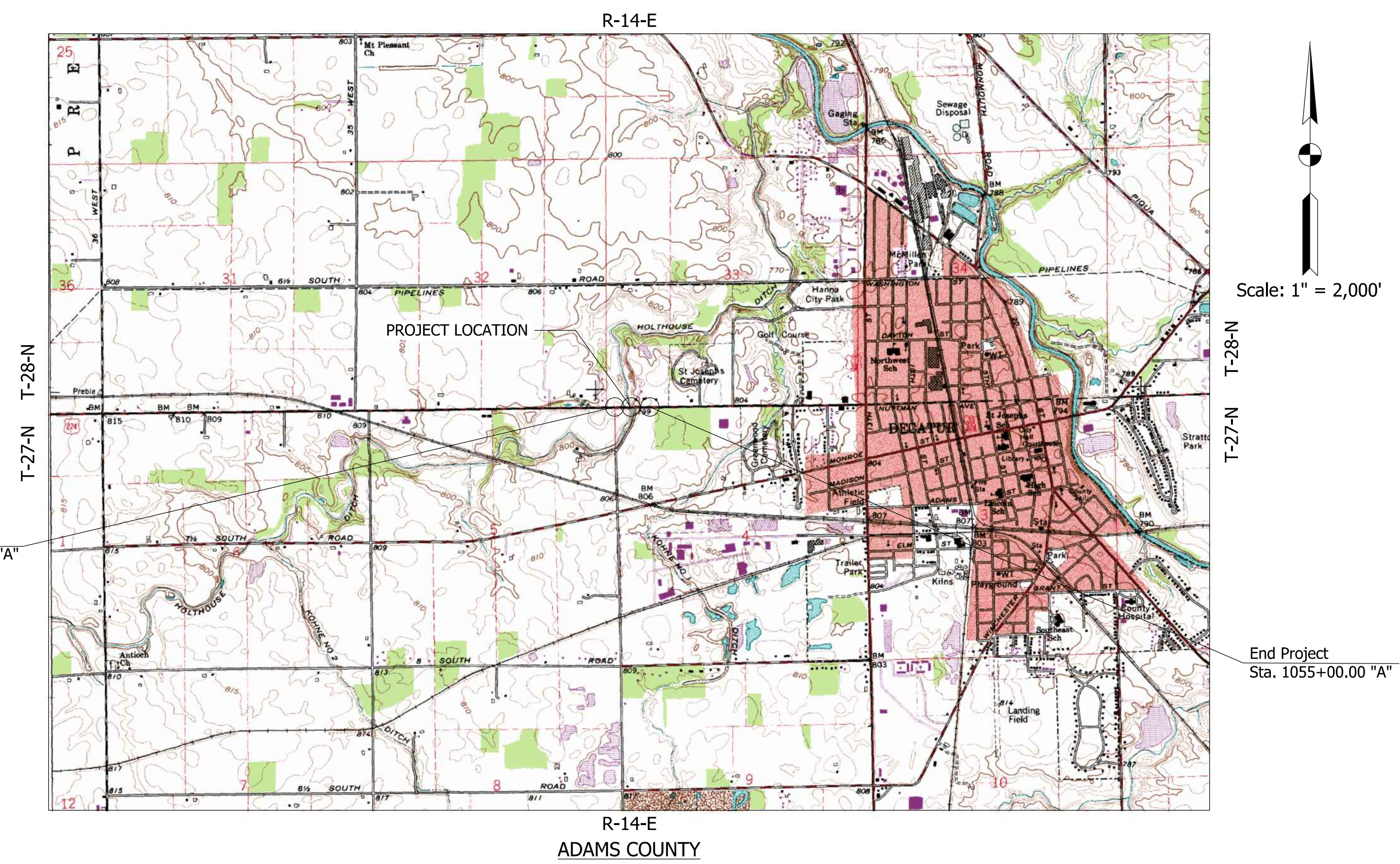
Bridge Replacement On U.S. 224 over Holthouse Ditch Located 0.95 Miles West of U.S. 27, In Section 4, T-27-N, R-14-E, Washington Township and Section 33, T-28-N, R-14-E, Root Township, Adams County, Indiana

TRAFFIC DATA		
A.A.D.T. (2022)		4320 V.P.D.
A.A.D.T. (2042)		5140 V.P.D.
D.H.V. (2038)		8.95 V.P.H.
DIRECTIONAL DISTRIBUTION		51.18 %
TRUCKS		18.16 % A.A.D.T. 18.36 % D.H.V.
DESIGN DATA		
DESIGN SPEED		55 M.P.H.
PROJECT DESIGN CRITERIA		3R (Non-Freeway)
FUNCTIONAL CLASSIFICATION		Minor Arterial
RURAL/URBAN		Urban
TERRAIN		Level
ACCESS CONTROL		None



LATITUDE: 40°49'56" N LONGITUDE: 84°57'20" W

BRIDGE LENGTH:	0.028	MI.
ROADWAY LENGTH:	0.086	MI.
TOTAL LENGTH:	0.114	MI.
MAX. GRADE:	-5.92%	%



Plans Prepared By:

SJCA P.C.
ENGINEERS & SURVEYORS
9102 North Meridian Street, Suite 200, Indianapolis, IN 46260
Phone: (317) 566-0629
Website: www.sjca-pc.com

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2020
TO BE USED WITH THESE PLANS.

PLANS PREPARED BY:	SJCA, P.C.	(317) 566-0629 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE	
224-01-10306	
DESIGNATION	
1701394	
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 30
CONTRACT	PROJECT
B-42474	1701394

Model: Title 9/10/2019 1:13:42 PM User: kharrison

UTILITIES

AMERICAN ELECTRIC POWER
J. Jay Marlow
(260) 408-3447

CITY OF DECATUR WATER UTILITY
225 W. Monroe St.
Decatur, IN 46733
Jim Inskip
(260) 724-7171
decaturwater@yahoo.com

BUCKEYE
9999 Hamilton Blvd.
5 Tek Park
Breinigsville, PA 18031
Traci McClernon
(610) 904-4475
tmccclernon@buckeye.com

MEDIACOM, LLC (DECATUR)
215 W. Walnut St.
Watseka, IL 61523
Gary Gudeman

CENTURYLINK
213 W. Laporte St.
Plymouth, IN 46563
Bruce Emerick
(574) 926-1247
joseph.megyesi@sprint.com

NIPSCO GAS (FORT WAYNE)
Dave Schaafsma
dschaafsma@nisource.com

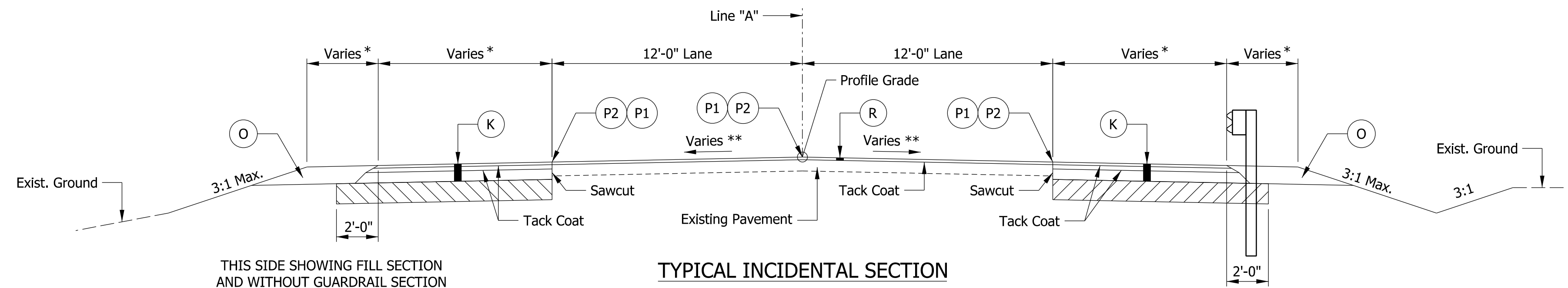
COMMUNITY FIBER SOLUTIONS, INC.

REVISIONS

SHEET NO.	DATE	REVISED

INDEX

SHEET NO.	SUBJECT
1	TITLE
2	INDEX
3	TYPICAL SECTIONS
4	PLAT NO. 1
5	DETOUR ROUTE
6	PLAN AND PROFILE - LINE "A"
7	PLAN AND PROFILE - LINE "S-1-A"
8 - 9	CONSTRUCTION DETAILS
10	MODIFIED GUARDRAIL DETAIL
11	EROSION CONTROL
12	LAYOUT
13	GENERAL PLAN
14	SUMMARY OF QUANTITIES
15 - 26	CROSS SECTIONS - LINE "A"
27 - 30	CROSS SECTIONS - LINE "S-1-A"



THIS SIDE SHOWING FILL SECTION AND WITHOUT GUARDRAIL SECTION

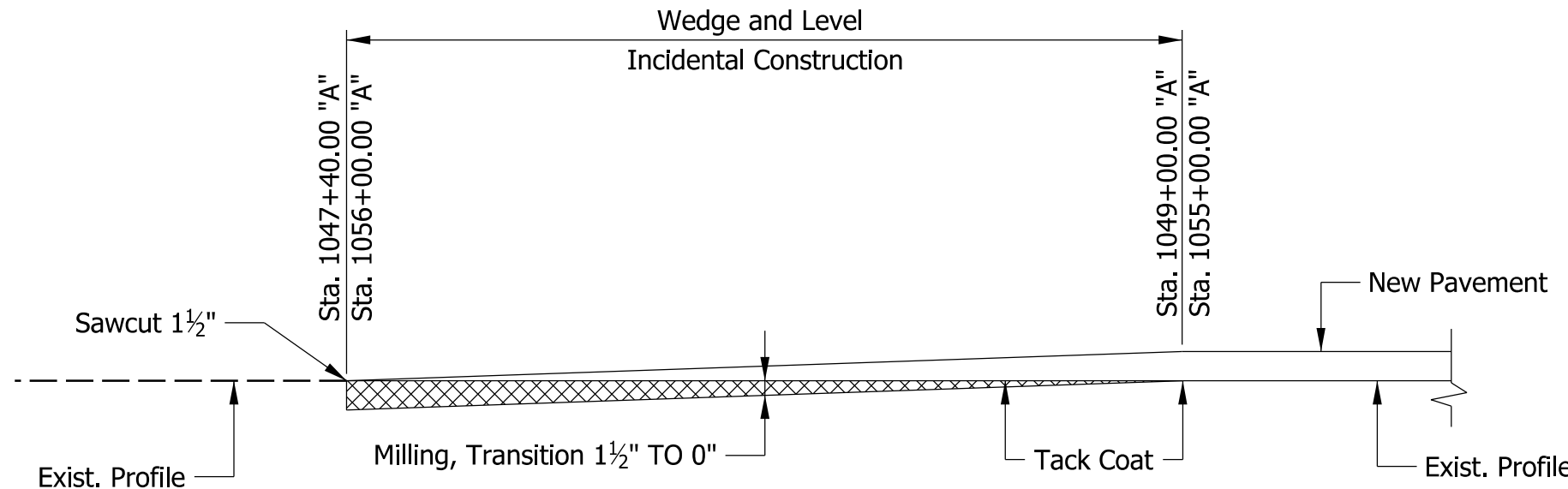
TYPICAL INCIDENTAL SECTION

Scale: 1/4" = 1'-0"

Sta. 1047+40.00 "A" to Sta. 1049+00.00 "A"
Sta. 1055+00.00 "A" to Sta. 1056+00.00 "A"

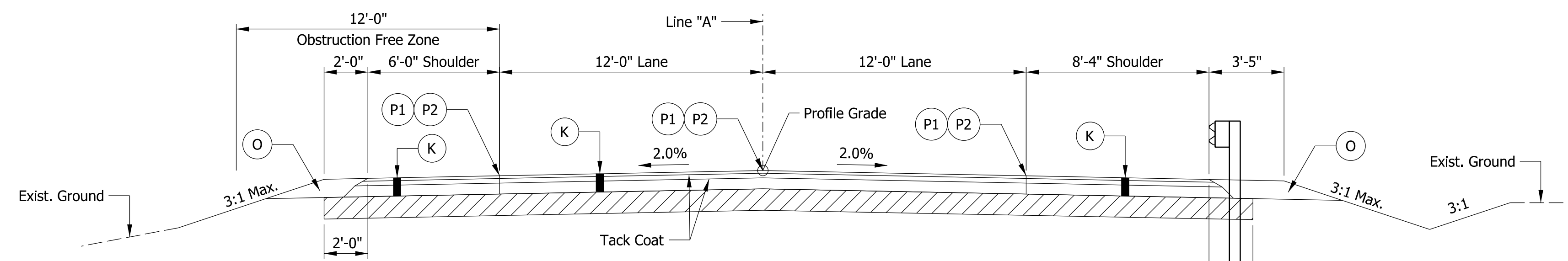
THIS SIDE SHOWING DITCH SECTION AND WITH GUARDRAIL SECTION

* - See Construction Details
** - Cross Slope Varies from 2.0% to Match Exist.



ASPHALT WEDGE & LEVEL DETAIL

Not to Scale



THIS SIDE SHOWING FILL SECTION AND WITHOUT GUARDRAIL SECTION

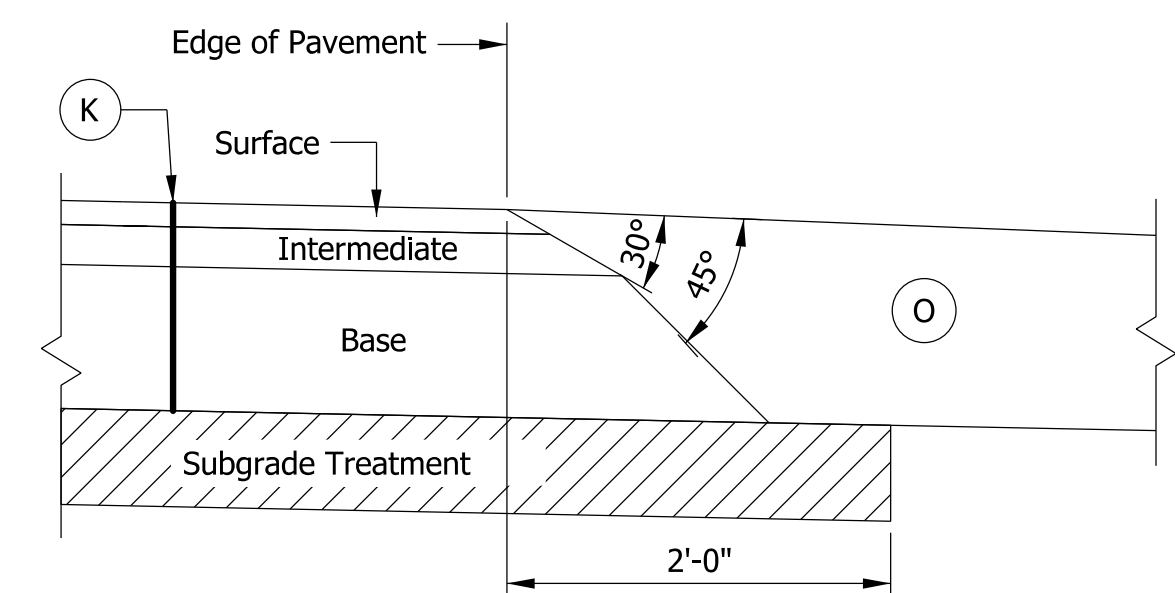
TYPICAL FULL-DEPTH PAVEMENT SECTION

Scale: 1/4" = 1'-0"

Sta. 1049+00.00 "A" to Sta. 1051+05.81 "A"
Sta. 1052+55.39 "A" to Sta. 1055+00.00 "A"

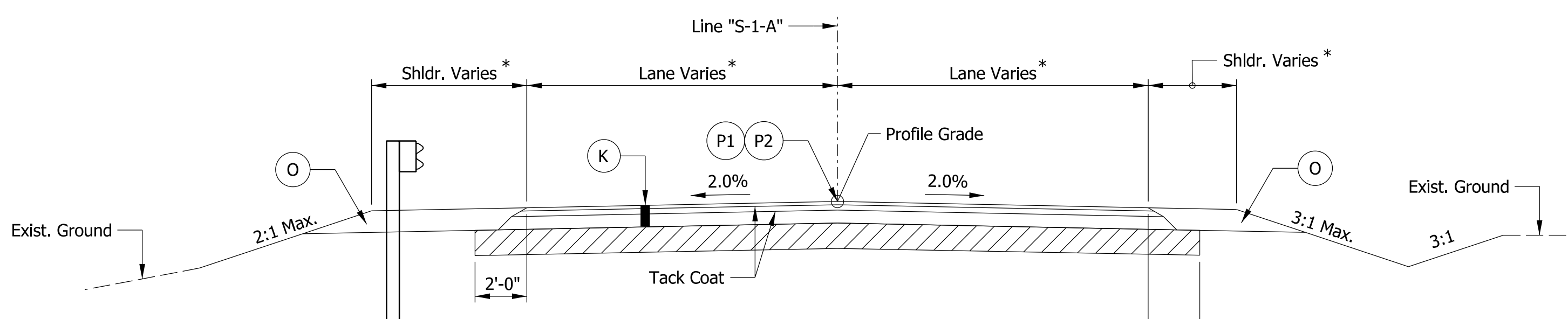
THIS SIDE SHOWING DITCH SECTION AND WITH GUARDRAIL SECTION

Paving Exception From Sta. 1051+05.81 "A" to Sta. 1052+55.39 "A"



SAFETY EDGE DETAIL

Not to Scale



THIS SIDE SHOWING FILL SECTION AND WITH GUARDRAIL SECTION

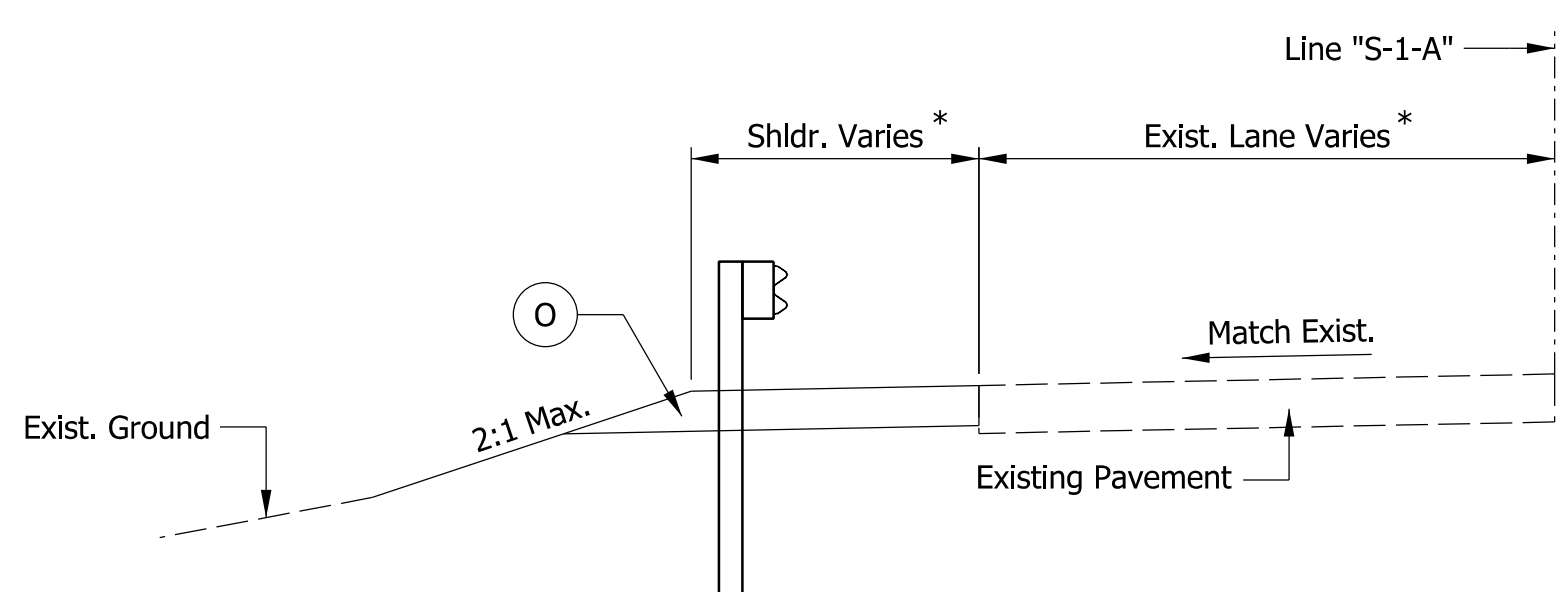
TYPICAL FULL-DEPTH PAVEMENT SECTION

Scale: 1/4" = 1'-0"

Sta. 03+73.00 "S-1-A" to Sta. 04+79.35 "S-1-A"

THIS SIDE SHOWING DITCH SECTION

* - See Construction Details



TYPICAL INCIDENTAL SECTION

Scale: 1/4" = 1'-0"

Sta. 02+83.00 "S-1-A" to Sta. 03+73.00 "S-1-A"

* - See Construction Details

NOTE TO REVIEWER
Pavement sections are preliminary and will be revised to match the pavement design for the next submittal.

LEGEND

- (K) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5mm on 385 lbs/syd QC/QA-HMA, 3, 70, Intermediate, 19.0mm on 440 lbs/syd QC/QA-HMA, 3, 70, Base, 19.0mm on Subgrade Treatment, Type 1C
- (R) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5mm on Milling, Asphalt, 1 1/2"
- (O) Variable depth Compacted Aggregate, No. 53 (10" max.)
- (P1) Joint adhesive required for Surface and Intermediate layers at longitudinal joints
- (P2) Liquid asphalt sealant required on Surface layer over longitudinal joint, 24" width

Model: Typical Sections 9/10/2019 11:13:47 PM User: kharlison

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: PFC	DRAWN: PFC	
CHECKED: MJM	CHECKED: MJM	

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	224-01-10306
VERTICAL SCALE	DESIGNATION
AS NOTED	1701394
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 30
CONTRACT	PROJECT
B-42474	1701394

1047+00

1048+00

1049+00

1050+00

1051+00

1052+00

1053+00

1054+00

1055+00

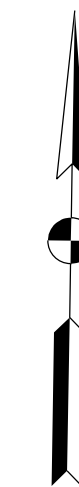
1056+00

Daniel V. Schurger

SECTION 33, T-28-N, R-14-E
ROOT TOWNSHIP
ADAMS COUNTY

Ryan M. Seddelmeyer

Thomas K. & Michelle L. Barker



C/L Structure
Sta. 1051+80.60 "A"
Skew 10° Lt.

Temp. R/W for Drive Construction and Erosion Control

END PROJECT
STA. 1055+00.00 "A"

BEGIN PROJECT
STA. 1049+00.00 "A"

Exist. R/W

R/W

Exist. R/W

5+00

Exist. R/W

R/W

Exist. R/W

App. Section Line

Line "A"

U.S. 224

N 89° 03' 31" E

U.S. 224

Exist. R/W

R/W

Exist. R/W

4+00

R/W

Exist. R/W

EQUATION:
Sta. 1053+09.23 "A" =
Sta. 5+00.00 "S-1-A"

Exist. R/W

App. Sec. Line

Andrea M. Allison

Holthouse Ditch
Flow

Exist. R/W

N 13° 25' 16" E

Begin Construction
Sta. 3+73.00 "S-1-A"

Schurger Tree Farm Trust

SECTION 5, T-27-N, R-14-E
ROOT TOWNSHIP
ADAMS COUNTY

3+00

POT 3+00.00

C.R. 100 W.

Exist. R/W

Line "S-1-A"

SECTION 4, T-27-N, R-14-E
ROOT TOWNSHIP
ADAMS COUNTY

NOTE:
All R/W described from Line "A" unless otherwise noted.

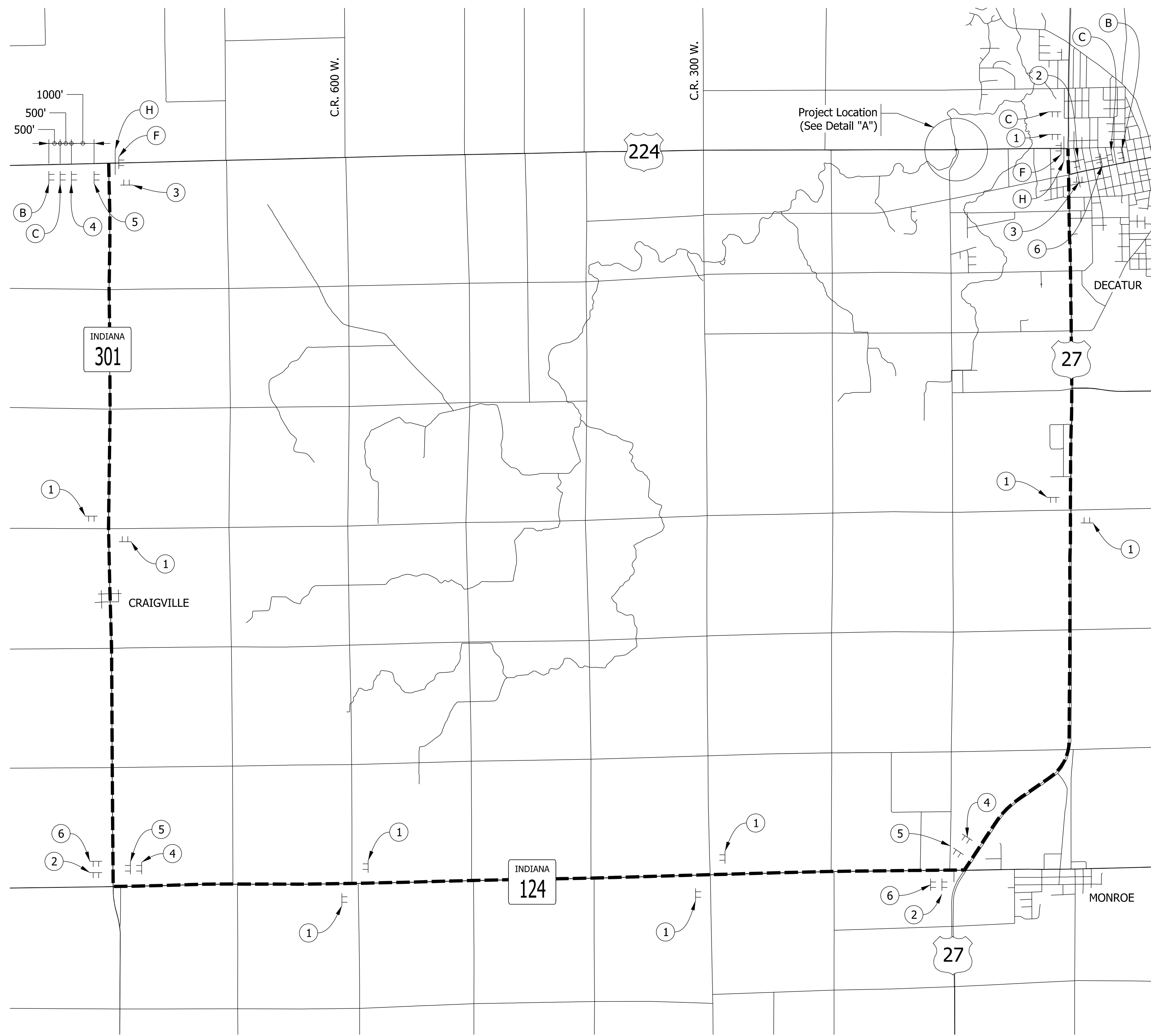
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9/10/2019 11:13:48 PM
User: kharriison

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: PFC	DRAWN: PFC	
CHECKED: MJM	CHECKED: MJM	

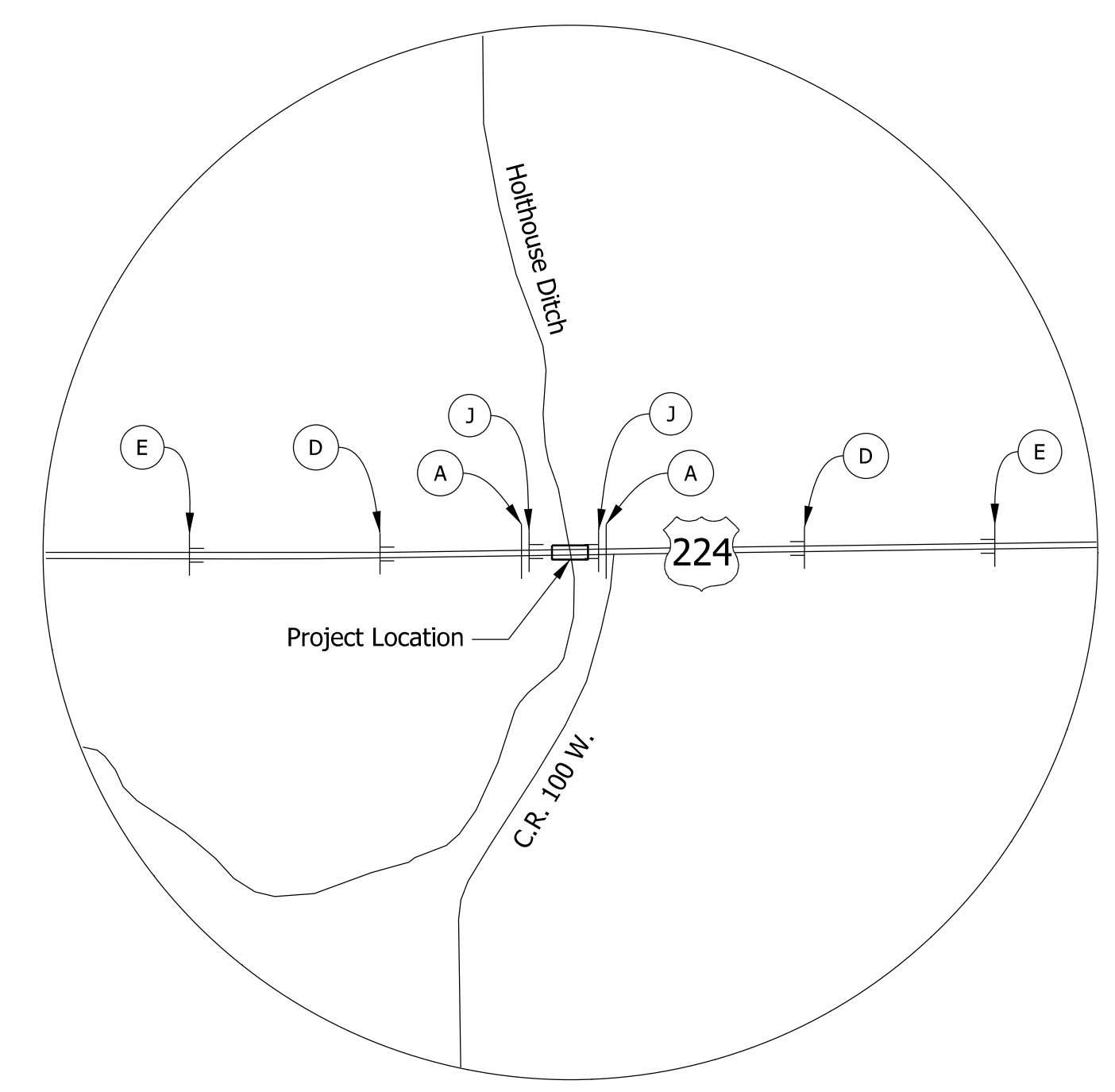
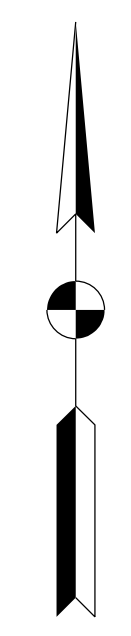
INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

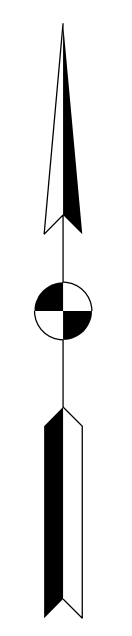
HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 224-01-10306
VERTICAL SCALE N/A	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 4 of 30
CONTRACT B-42474	PROJECT 1701394



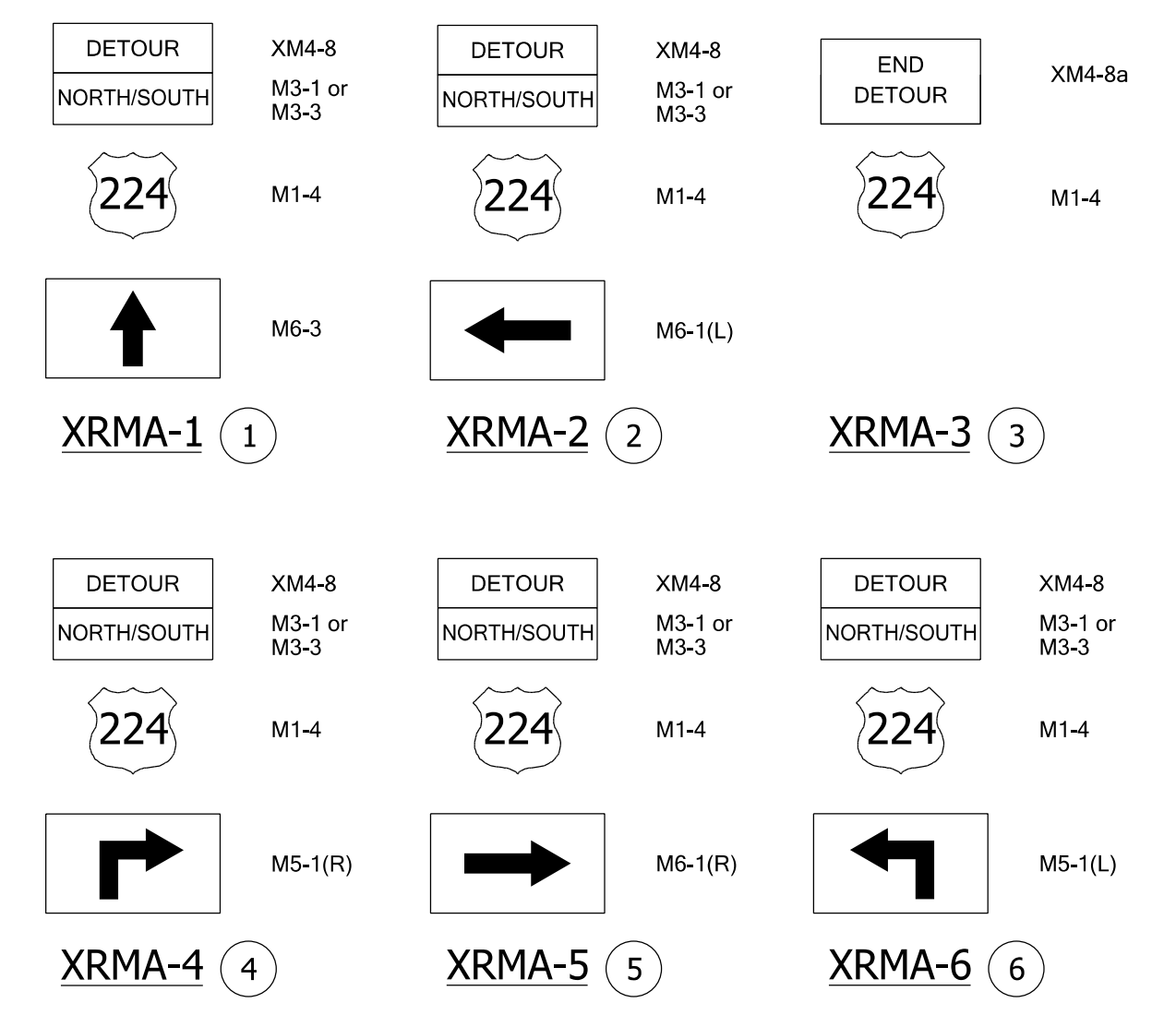
DETOUR ROUTE PLAN
Scale: 1" = 3000'



DETAIL "A"
Scale: 1" = 400'



DETOUR ROUTE MARKER ASSEMBLY LEGEND



LEGEND

- (A) TYPE III-A BARRICADES - 36 LFT REQUIRED
 - (B) "ROAD CLOSED AHEAD" - XW20-3
 - (C) "DETOUR AHEAD" - XW20-2
 - (D) "ROAD CLOSED 500 FT." - XW20-3
 - (E) "ROAD CLOSED 1000 FT." - XW20-3
 - (F) ROAD CLOSURE SIGN ASSEMBLY WITH "ROAD CLOSED X MILES AHEAD LOCAL TRAFFIC ONLY" - R11-3
 - (H) TYPE III-B BARRICADES STAGGERED - 24 LFT REQUIRED *
 - (J) ROAD CLOSURE SIGN ASSEMBLY WITH "ROAD CLOSED" - R11-2
 - TT SIGN ASSEMBLY
 - DETOUR ROUTE
- NOTE: ACCESS TO PROPERTY OWNERS SHALL BE PROVIDED DURING CONSTRUCTION.
- * LOCATED OUTSIDE OF TRAVELED WAY

ESTIMATED QUANTITIES

DESCRIPTION	UNIT	TOTAL
CONSTRUCTION SIGN, A	EACH	11
DETOUR ROUTE MARKER ASSEMBLY	EACH	23
ROAD CLOSURE SIGN ASSEMBLY	EACH	4
TYPE III-A BARRICADES	LFT	72
TYPE III-B BARRICADES	LFT	48

TWO ROAD CLOSURE NOTICE SIGNS XG20-5 REQUIRED (ONE AT EACH END) PLACED AT SITE A MINIMUM OF 10 DAYS PRIOR TO ROAD CLOSURE

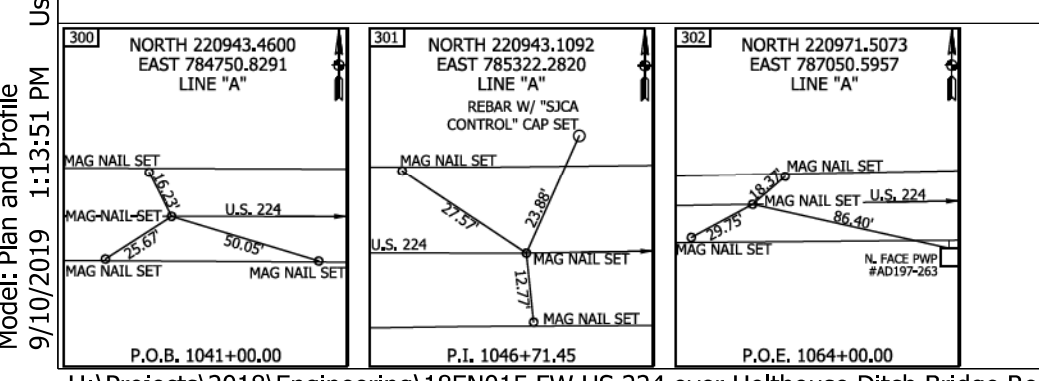
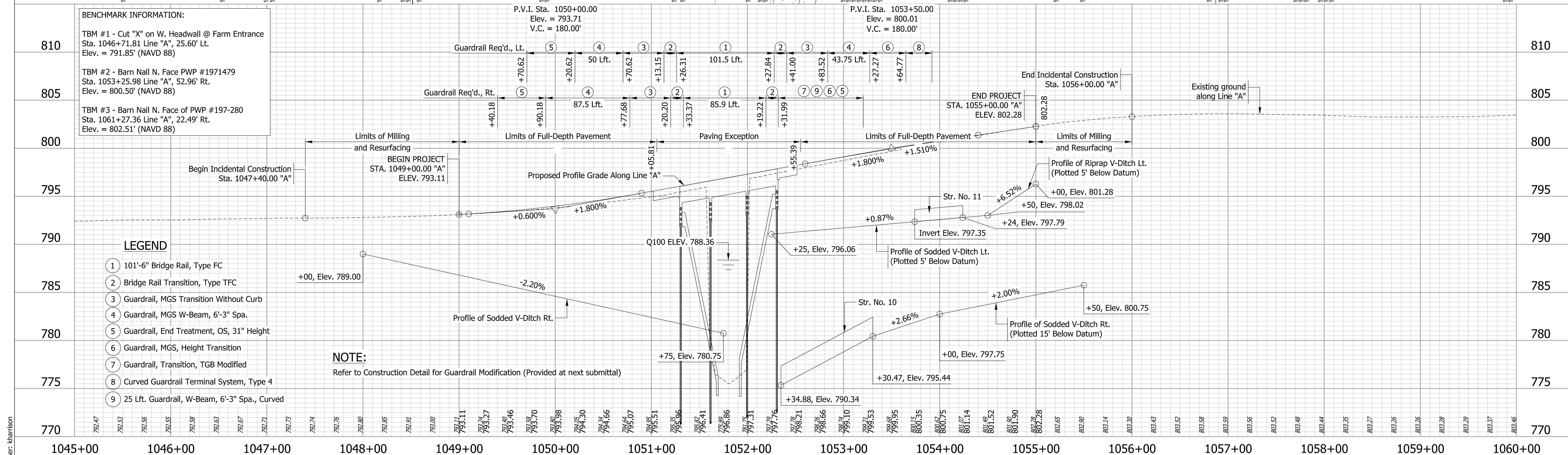
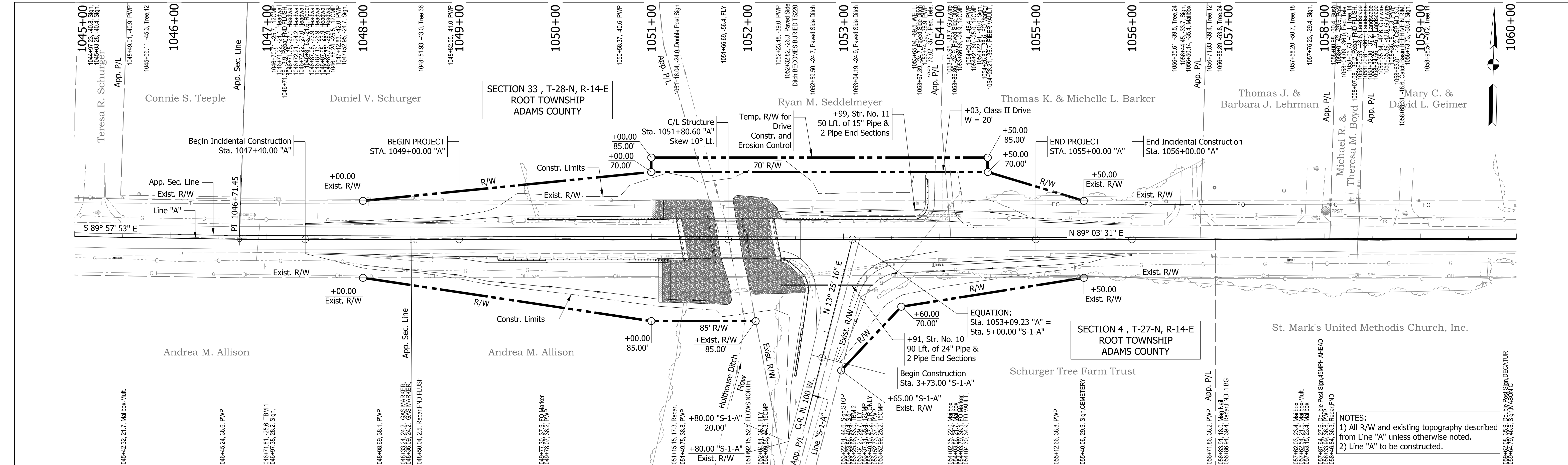
NOTES:
DETOUR ROUTE MARKER ASSEMBLIES SHALL BE IN ACCORDANCE WITH INDOT STANDARD DRAWING 801-TCDDT-04.
TYPE B CONSTRUCTION WARNING LIGHTS SHALL BE USED WITH ALL SIGNS LOCATED ON BARRICADES.
TYPE A CONSTRUCTION WARNING LIGHTS SHALL BE USED ON ALL OTHER CONSTRUCTION SIGNS.

Model: Detour Route 9/10/2019 1:13:50 PM User: kharlison

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: PFC	DRAWN: PFC	
CHECKED: MJM	CHECKED: MJM	

INDIANA DEPARTMENT OF TRANSPORTATION	
DETOUR ROUTE	

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	224-01-10306
VERTICAL SCALE	DESIGNATION
AS NOTED	1701394
SURVEY BOOK	SHEETS
ELECTRONIC	5 of 30
CONTRACT	PROJECT
B-42474	1701394



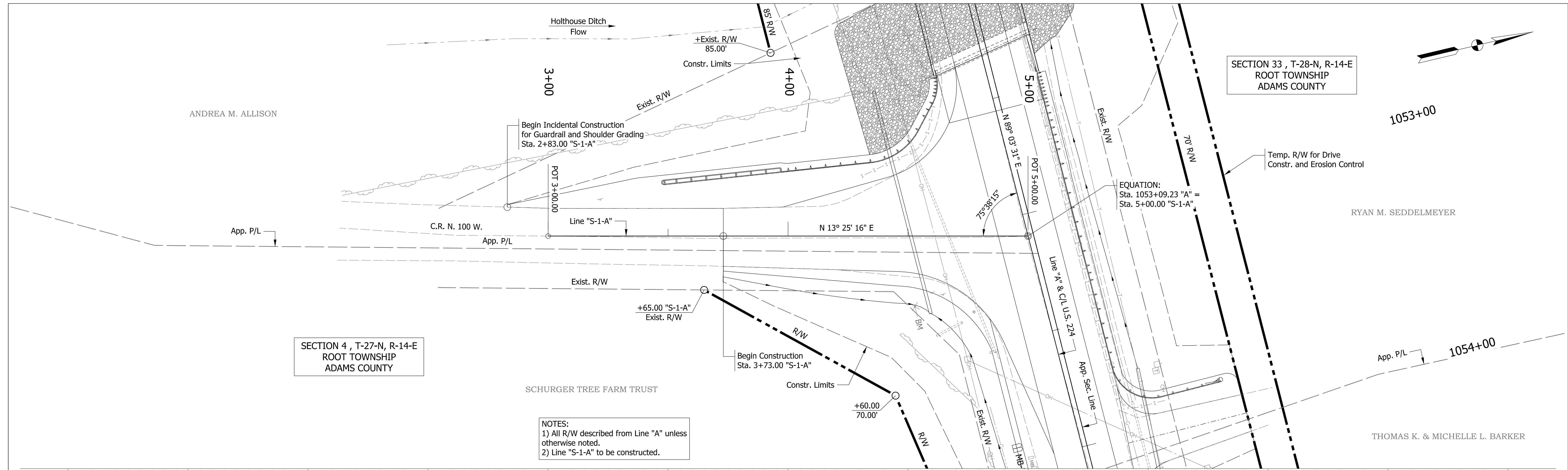
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RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: KCH		DRAWN: KCH/MH			
CHECKED: MJM		CHECKED: SG/MJM			

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE LINE "A" - U.S. 224

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	224-01-10306
VERTICAL SCALE	DESIGNATION
1" = 5'	1701394
SURVEY BOOK	SHEETS
ELECTRONIC	6 of 30
CONTRACT	PROJECT
B-42474	1701394



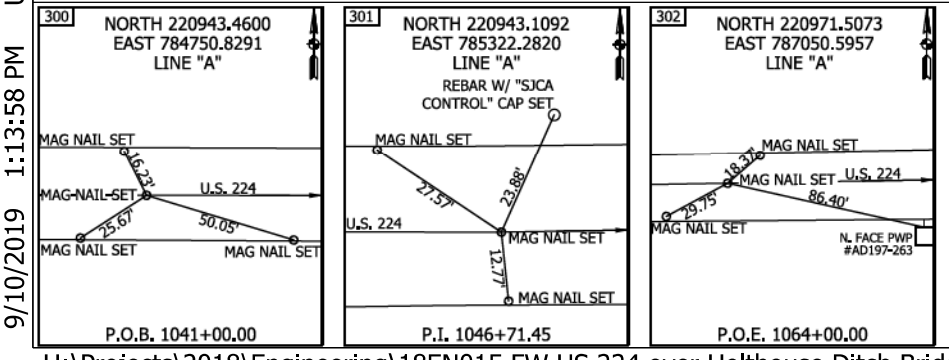
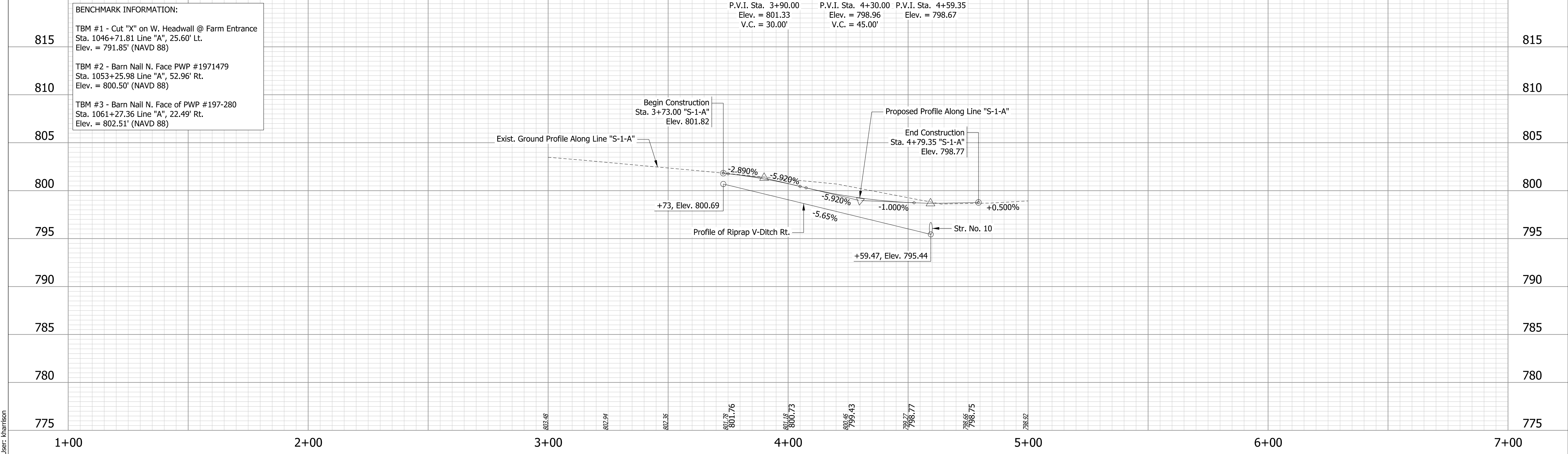
SECTION 4, T-27-N, R-14-E
ROOT TOWNSHIP
ADAMS COUNTY

SECTION 33, T-28-N, R-14-E
ROOT TOWNSHIP
ADAMS COUNTY

NOTES:
1) All R/W described from Line "A" unless otherwise noted.
2) Line "S-1-A" to be constructed.

BENCHMARK INFORMATION:
TBM #1 - Cut "X" on W. Headwall @ Farm Entrance
Sta. 1046+71.81 Line "A", 25.60' Lt.
Elev. = 791.85' (NAVD 88)
TBM #2 - Barn Nail N. Face PWP #1971479
Sta. 1053+25.98 Line "A", 52.96' Rt.
Elev. = 800.50' (NAVD 88)
TBM #3 - Barn Nail N. Face of PWP #197-280
Sta. 1061+27.36 Line "A", 22.49' Rt.
Elev. = 802.51' (NAVD 88)

P.V.I. Sta. 3+90.00 Elev. = 801.33 V.C. = 30.00'
P.V.I. Sta. 4+30.00 Elev. = 798.96 V.C. = 45.00'
P.V.I. Sta. 4+59.35 Elev. = 798.67



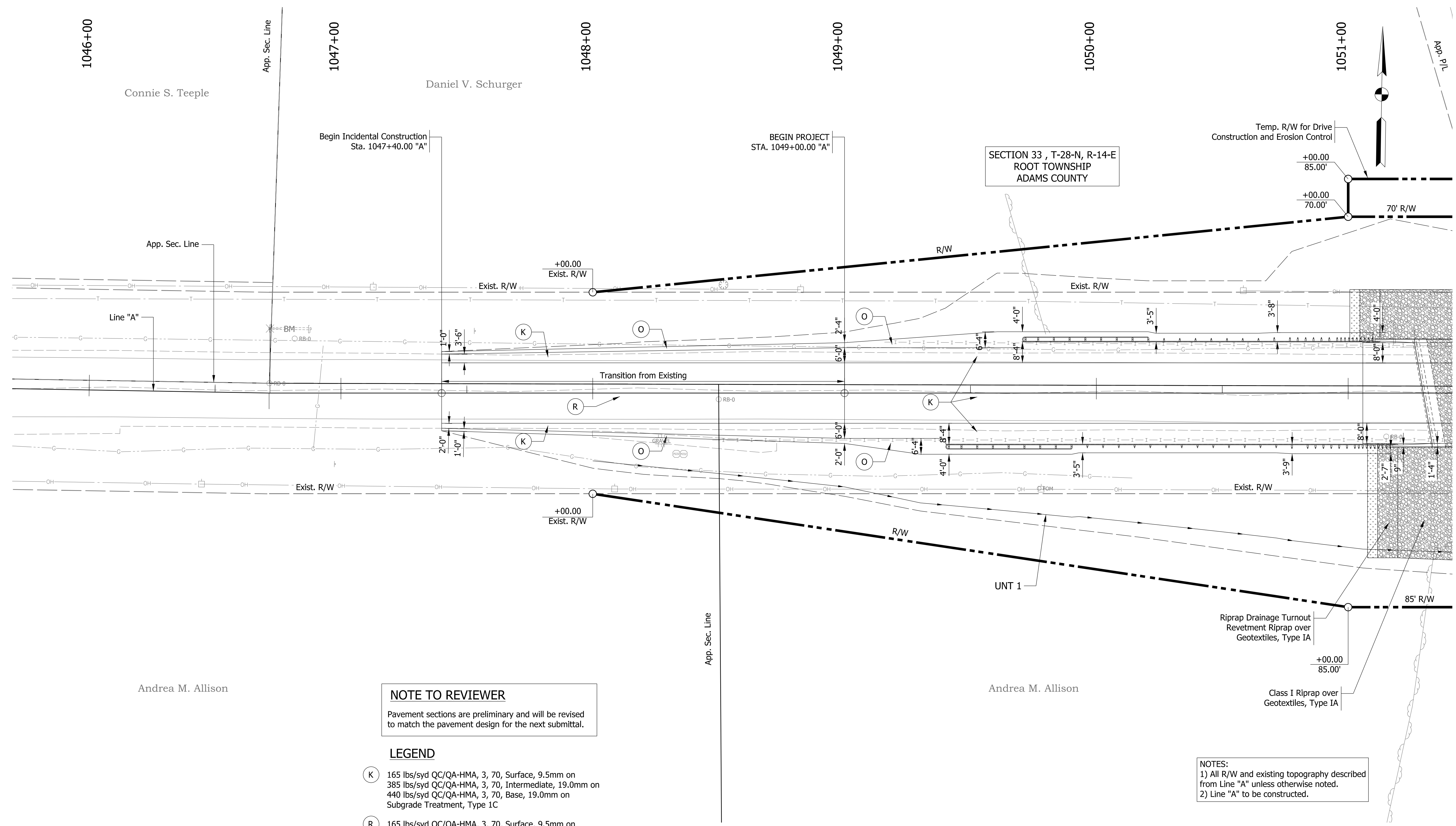
RECOMMENDED FOR APPROVAL _____
DESIGNED: PFC DRAWN: PFC
CHECKED: MJM CHECKED: SG/MJM

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINE "S-1-A" - C.R. 100 W.

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 7 of 30
CONTRACT B-42474	PROJECT 1701394

Model: Plan and Profile
9/10/2019 1:13:58 PM
User: kharrison



SECTION 33, T-28-N, R-14-E
ROOT TOWNSHIP
ADAMS COUNTY

NOTE TO REVIEWER
Pavement sections are preliminary and will be revised to match the pavement design for the next submittal.

- LEGEND**
- (K) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5mm on 385 lbs/syd QC/QA-HMA, 3, 70, Intermediate, 19.0mm on 440 lbs/syd QC/QA-HMA, 3, 70, Base, 19.0mm on Subgrade Treatment, Type 1C
 - (R) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5mm on Milling, Asphalt, 1 1/2"
 - (O) Variable depth Compacted Aggregate, No. 53 (10" max.)

NOTES:
1) All R/W and existing topography described from Line "A" unless otherwise noted.
2) Line "A" to be constructed.

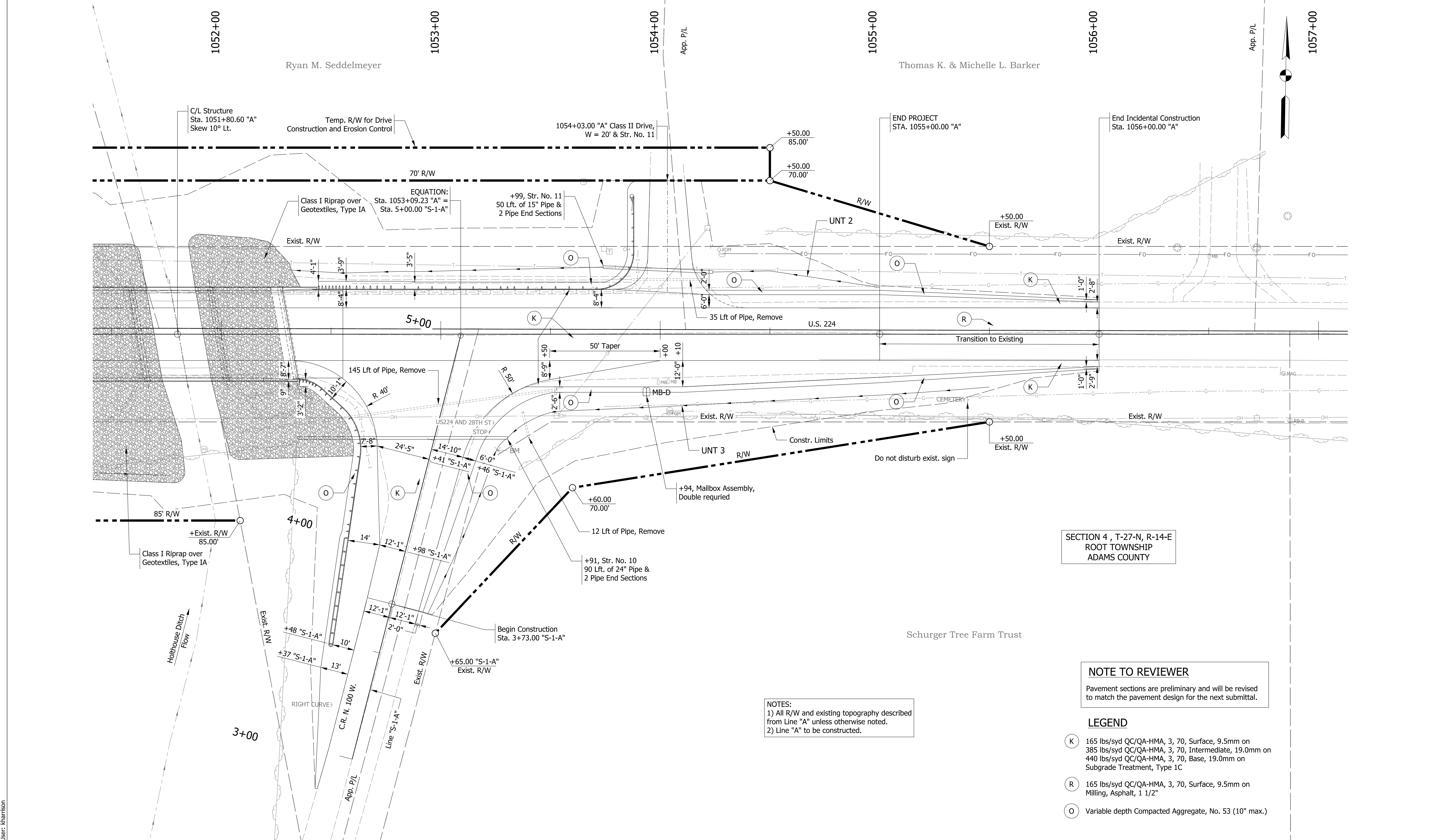
Model: Constr-Det-1 9/10/2019 1:14:03 PM User: kharrison

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ WWM	DRAWN: _____ WWM	
CHECKED: _____ MJM	CHECKED: _____ MJM	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

CONSTRUCTION DETAILS

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE 224-01-10306
VERTICAL SCALE N/A	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 8 of 30
CONTRACT B-42474	PROJECT 1701394



SECTION 4, T-27-N, R-14-E
 ROOT TOWNSHIP
 ADAMS COUNTY

NOTE TO REVIEWER
 Pavement sections are preliminary and will be revised to match the pavement design for the next submittal.

- LEGEND**
- (K) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5mm on 385 lbs/syd QC/QA-HMA, 3, 70, Intermediate, 19.0mm on 440 lbs/syd QC/QA-HMA, 3, 70, Base, 19.0mm on Subgrade Treatment, Type 1C
 - (R) 165 lbs/syd QC/QA-HMA, 3, 70, Surface, 9.5mm on Milling, Asphalt, 1 1/2"
 - (O) Variable depth Compacted Aggregate, No. 53 (10" max.)

NOTES:
 1) All R/W and existing topography described from Line "A" unless otherwise noted.
 2) Line "A" to be constructed.

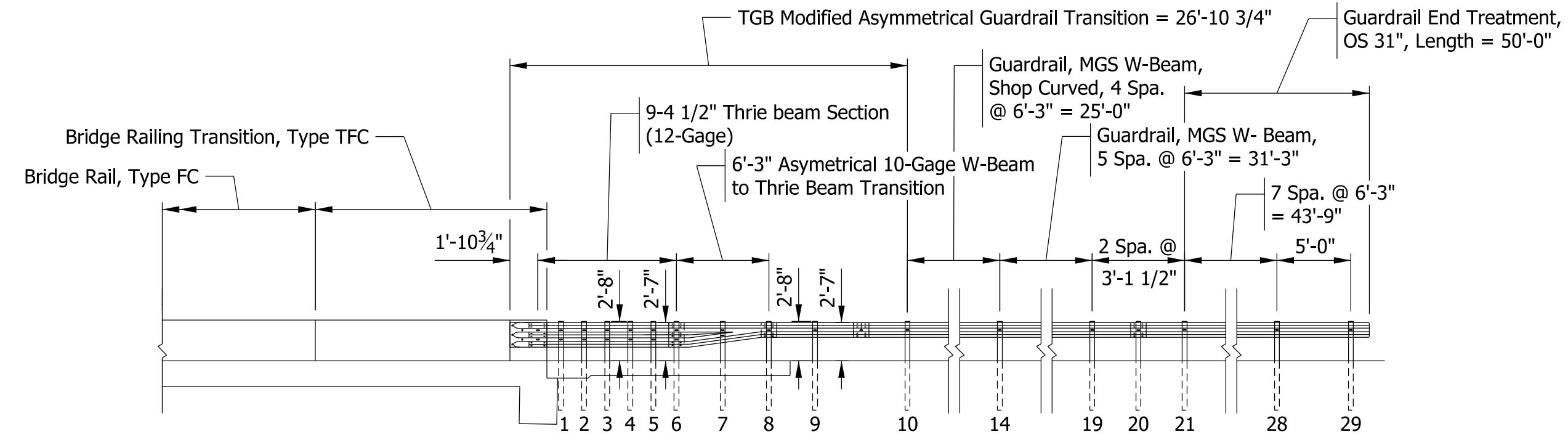
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: WWM	DRAWN: WWM	
CHECKED: MJM	CHECKED: MJM	

**INDIANA
 DEPARTMENT OF TRANSPORTATION**

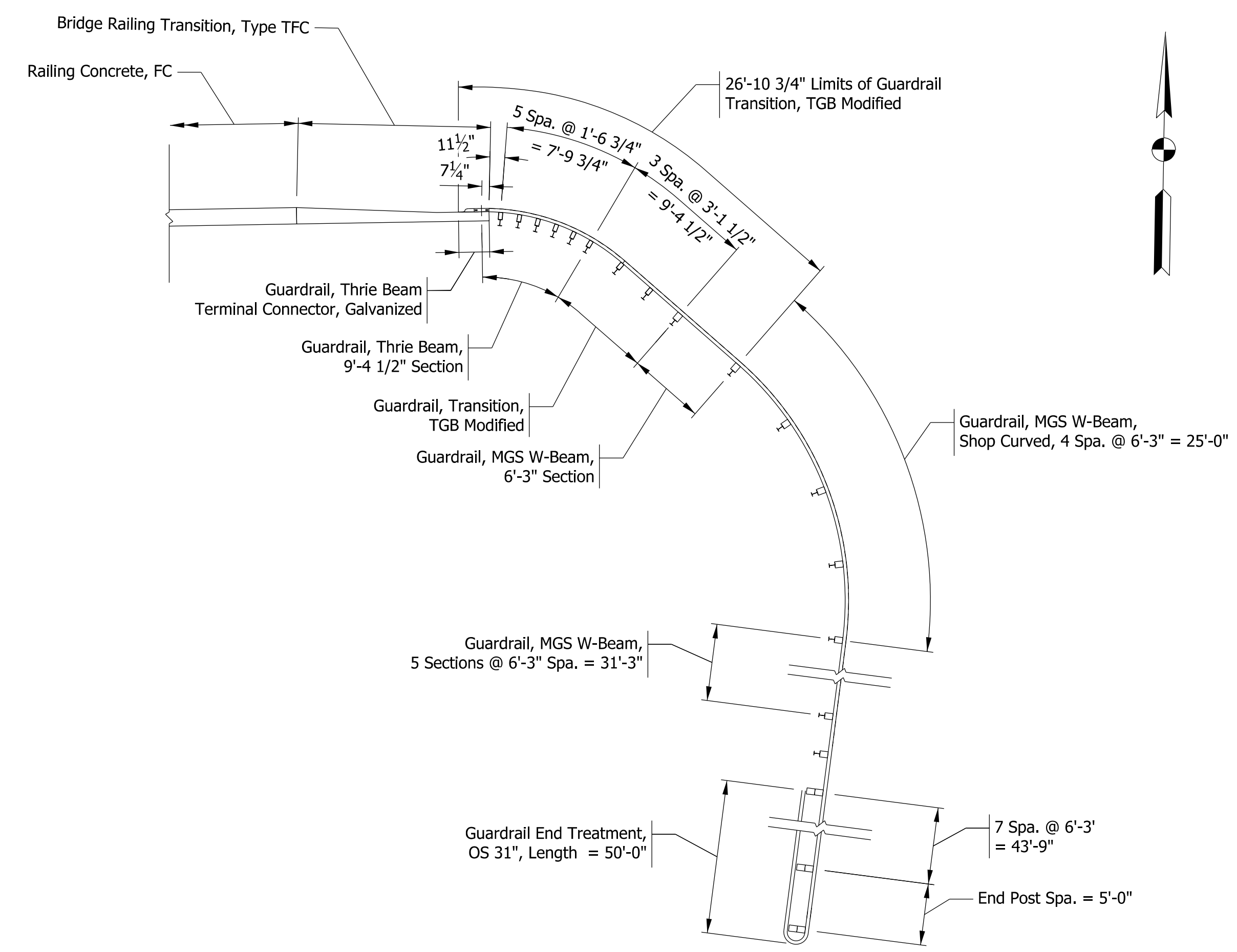
CONSTRUCTION DETAILS

HORIZONTAL SCALE	BRIDGE FILE
VERTICAL SCALE	224-01-10306
	DESIGNATION
	1701394
SURVEY BOOK	SHEETS
ELECTRONIC	9 of 30
CONTRACT	PROJECT
B-42474	1701394

Model: Constr-Det-2
 9/10/2019 1:14:04 PM User: kharrison



MODIFIED TGB BRIDGE RAILING TRANSITION ELEVATION



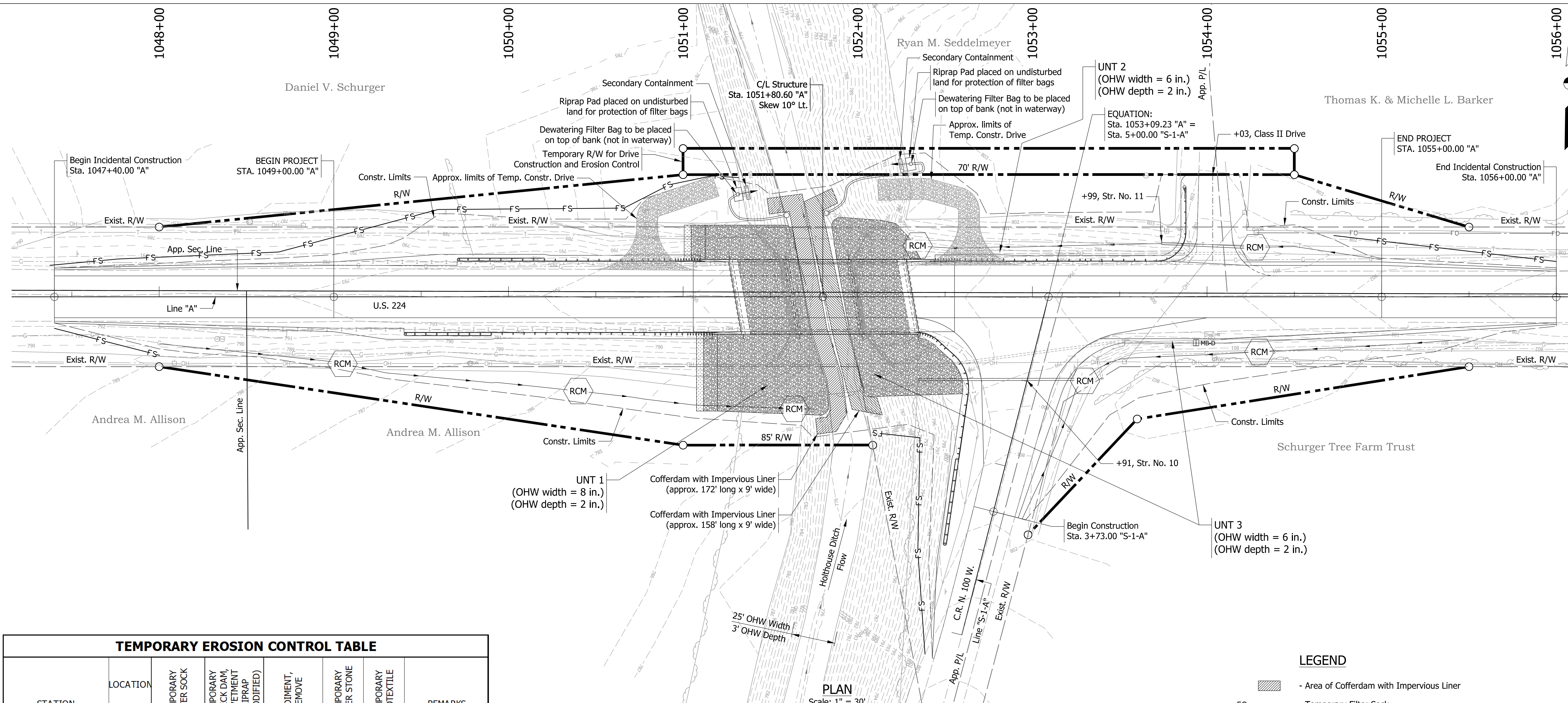
MODIFIED TFC BRIDGE RAILING TRANSITION PLAN

Model: Mod GR Detail.dwg 9/10/2019 11:46:05 PM User: kharrison

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ WWM	DRAWN: _____ WWM	
CHECKED: _____ MJM	CHECKED: _____ MJM	

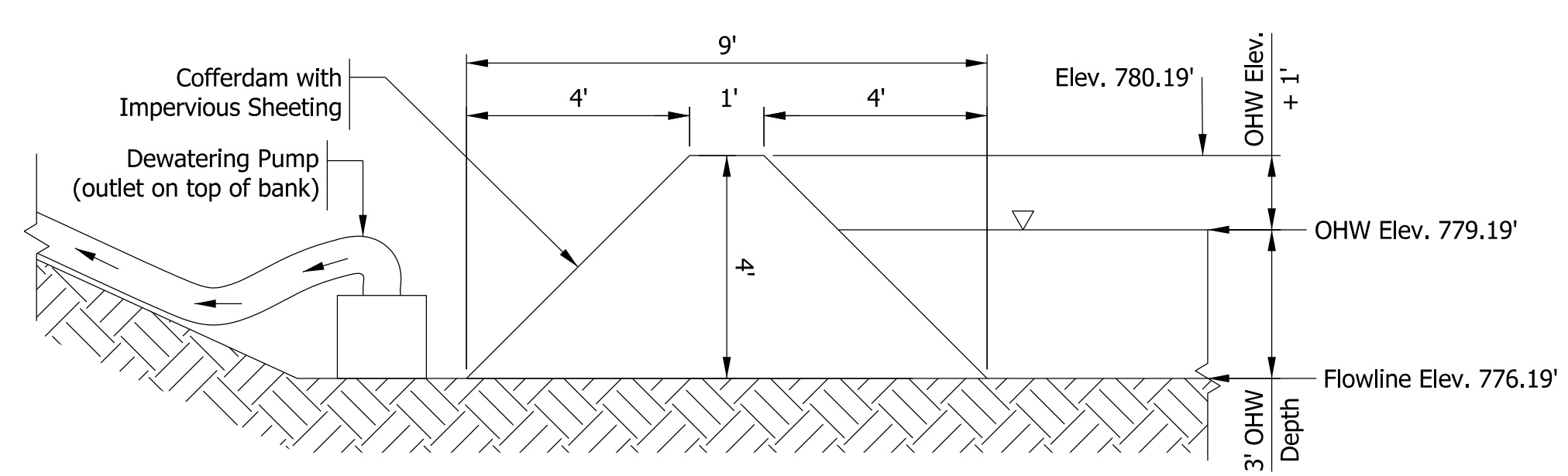
INDIANA DEPARTMENT OF TRANSPORTATION	
MODIFIED GUARDRAIL TRANSITION DETAILS	

HORIZONTAL SCALE	BRIDGE FILE
1/8" = 1'-0"	224-01-10306
VERTICAL SCALE	DESIGNATION
N/A	1701394
SURVEY BOOK	SHEETS
ELECTRONIC	10 of 30
CONTRACT	PROJECT
B-42474	1701394



PLAN
Scale: 1" = 30'

TEMPORARY EROSION CONTROL TABLE								
STATION	LOCATION		TEMPORARY FILTER SOCK	TEMPORARY CHECK DAM, REVEMENT RIPRAP (MODIFIED)	SEDIMENT, REMOVE	TEMPORARY FILTER STONE	TEMPORARY GEOTEXTILE	REMARKS
	LEFT	MEDIAN						
LINE "A"								
1047+40 to 1051+32	X				3			
1047+40 to 1048+00			X		1			
1049+05			X	16	2	1	35	
1050+40			X	16	2	1	35	
1051+64			X	16	2	1	35	
1052+08 to 1052+36			X		1			
1052+34	X			16	2	1	35	
1053+30			X	16	2	1	35	
1054+30	X			16	2	1	35	
1054+30			X	16	2	1	35	
1054+72 to 1056+00	X				2			
LINE "S-1-A"								
2+87 to 4+04	X							
TOTALS				746	112	21	7	245



DEWATERING / WORK AREA
Not to Scale

- LEGEND**
- Area of Cofferdam with Impervious Liner
 - Temporary Filter Sock
 - Temporary Check Dam, Revement Riprap, Modified (See Std. Dwg. E-205-TECD-06 for modified check dam)

- NOTES**
1. Any areas in addition to those called out, left undisturbed for a period exceeding 7 days shall be required to have temporary seeding.
 2. All disturbed areas shall be permanently seeded in accordance with INDOT Standard Specifications as soon as possible upon completion of work in that area.
 3. Upon Completion of ditch grading, permanent erosion control measures specified in the plans shall be implemented.
 4. Erosion Control Blankets will be used on all slopes steeper than 3:1.
 5. Dewatering operation shall remain in place until all work in the channel is complete including channel stabilization.
 6. Dewatering operation shall be done on one side of the channel at a time.
 7. See General Plan sheet for limits of permanent riprap scour protection.

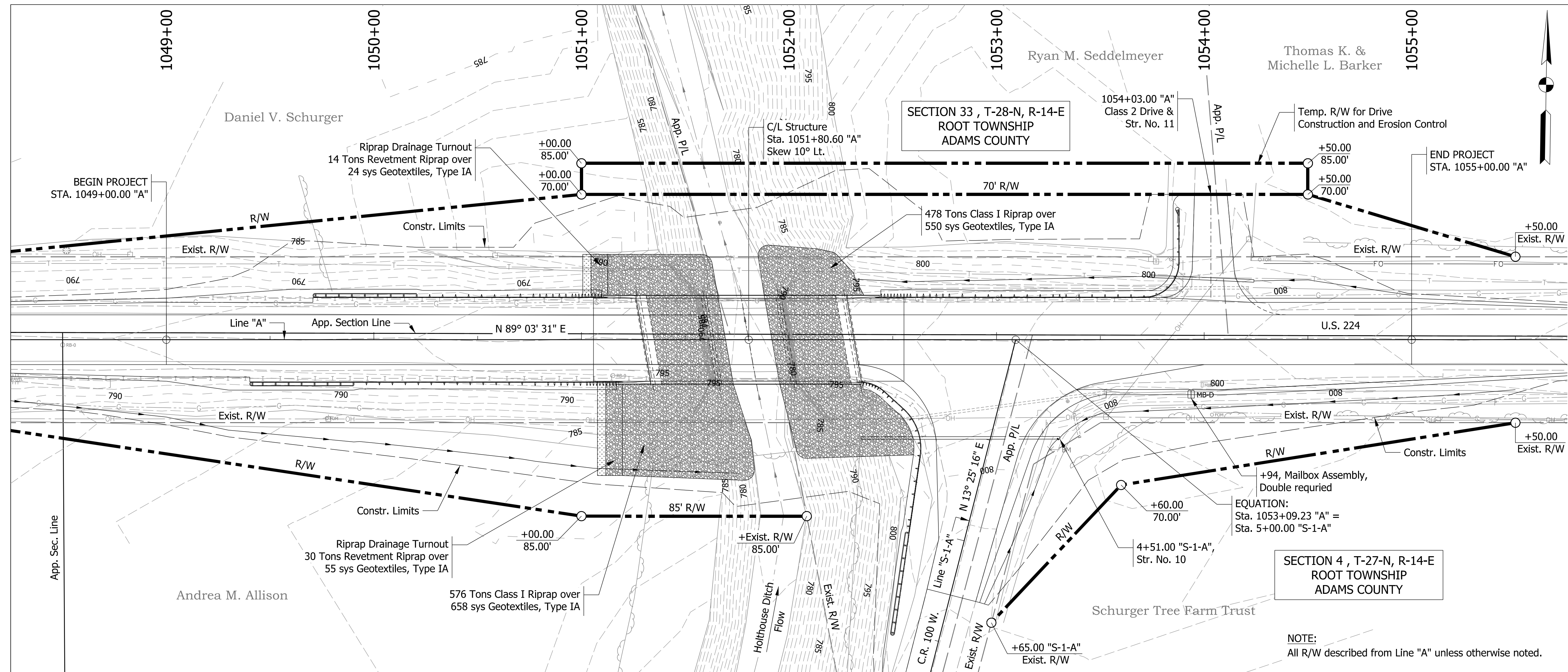
Model: ErosionControl.dwg 9/10/2019 1:14:08 PM User: kharrison

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: KCH	DRAWN: KCH	
CHECKED: MJM	CHECKED: MJM	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

EROSION CONTROL DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	224-01-10306
VERTICAL SCALE	DESIGNATION
AS NOTED	1701394
SURVEY BOOK	SHEETS
ELECTRONIC	11 of 30
CONTRACT	PROJECT
B-42474	1701394



EXISTING STRUCTURE

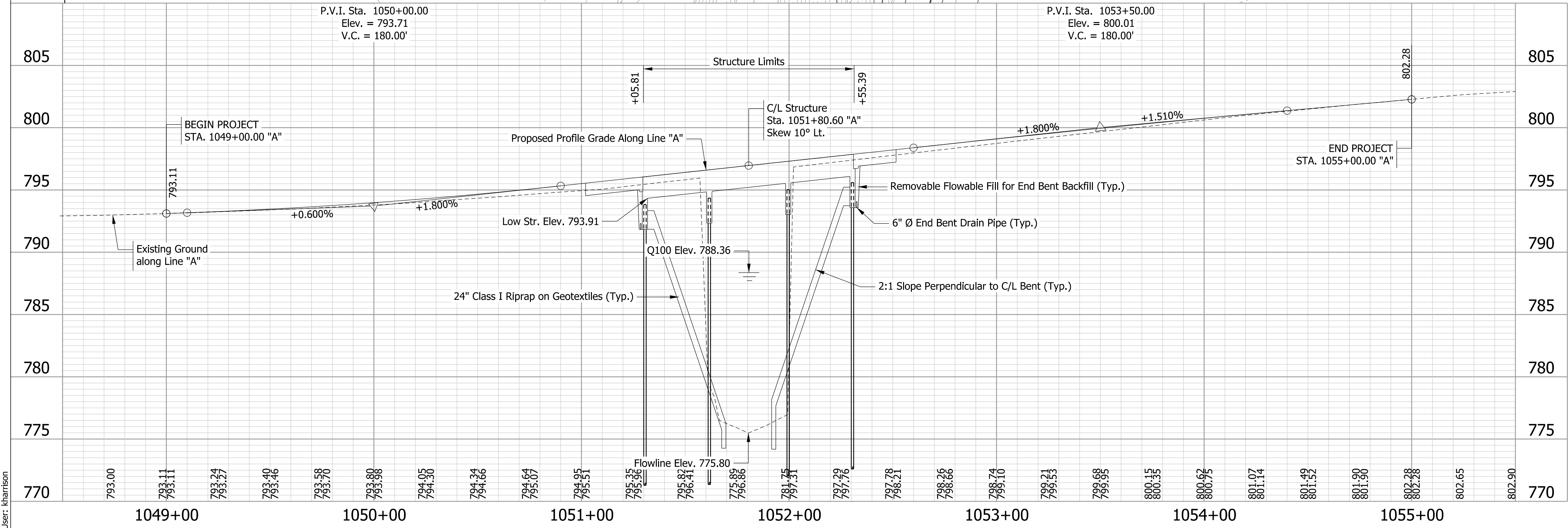
The existing bridge (Structure 224-01-01546) is a 45.5-ft long, single span reinforced concrete (closed spandrel) arch with a clear roadway width of 36.7-ft. The structure is currently skewed left 10 degrees. The existing structure was originally constructed in 1936. Existing structure to be removed.

HYDRAULIC DATA

Waterway Opening Provided	484.16 sq ft
Drainage Area	29.3 sq mi
Design Discharge, Q100	2190 cfs
Velocity	4.84 ft/s
Q100 Elev.	788.36 ft
Estimated Scour Elev.	769.80 ft
Backwater at Q100	0.19 ft
Existing Waterway Opening	374.23 sf
Existing Backwater	0.30 ft
Low Structure Elev.	793.91 ft
Existing Low Structure Elev.	793.52 ft

HYDRAULIC SCOUR DATA

Q100 Discharge	2190 cfs
Q100 Elev.	788.03 ft
Velocity at Q100	6.26 ft/s
Scour Depth (Contraction)	0.88 ft
Scour Depth (Total)	5.23 ft
Low Scour Elev.	770.57 ft
Q500 Discharge	2847 cfs
Q500 Elev.	788.77 ft
Velocity at Q500	7.48 ft/s
Scour Depth (Contraction)	1.20 ft
Scour Depth (Total)	5.92 ft
Low Scour Elev.	769.88 ft



EARTHWORK SUMMARY

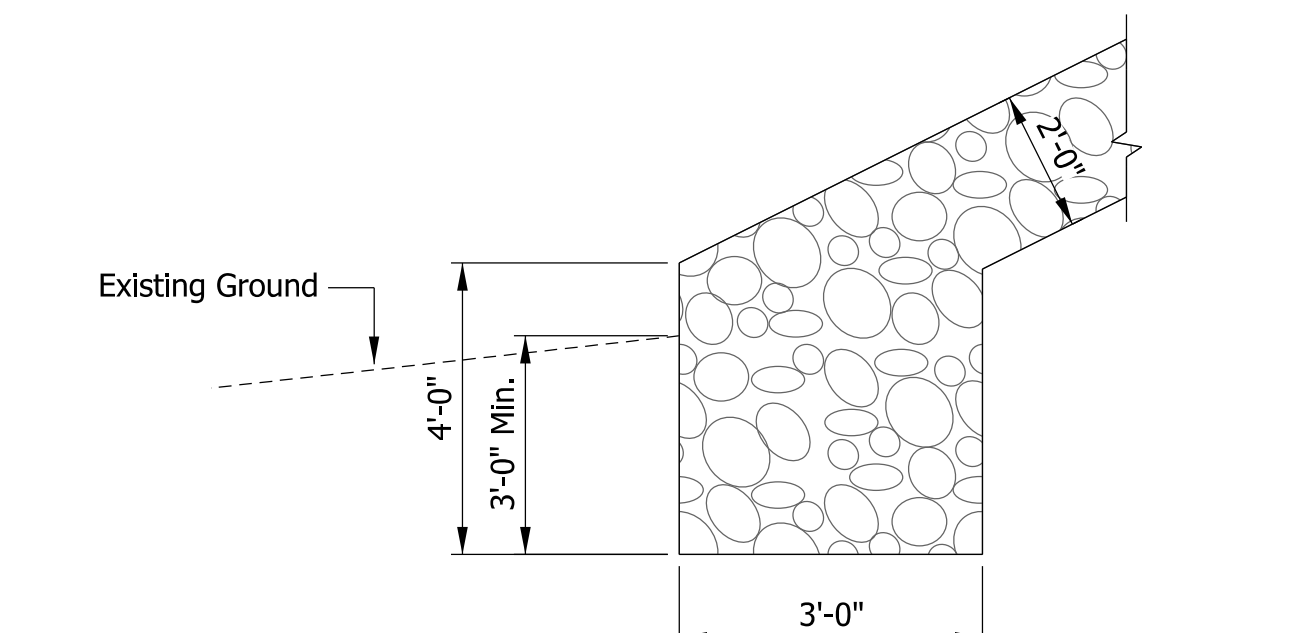
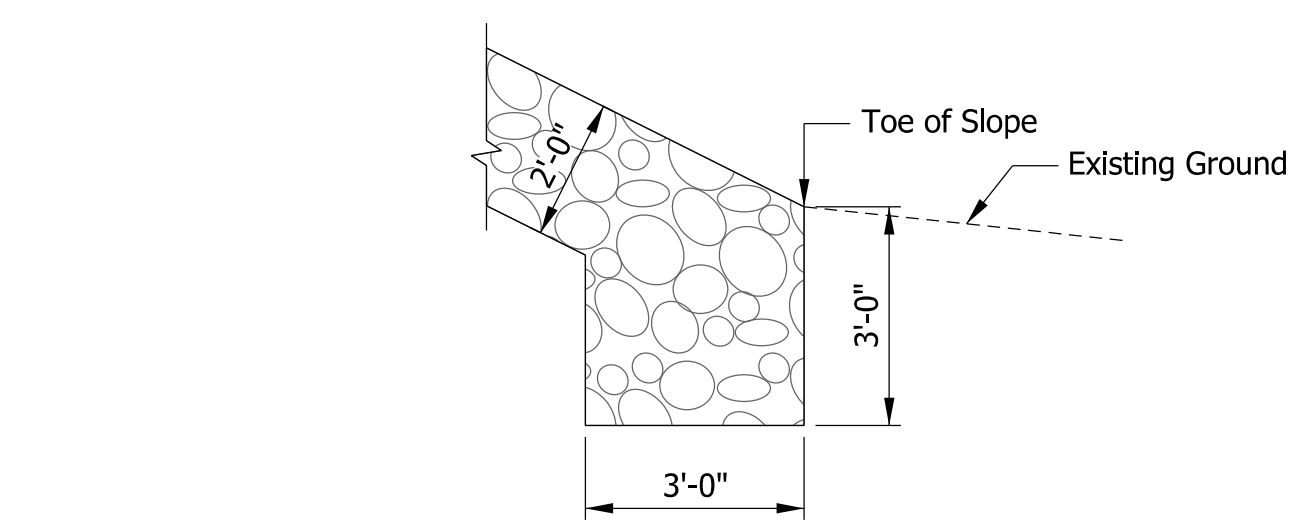
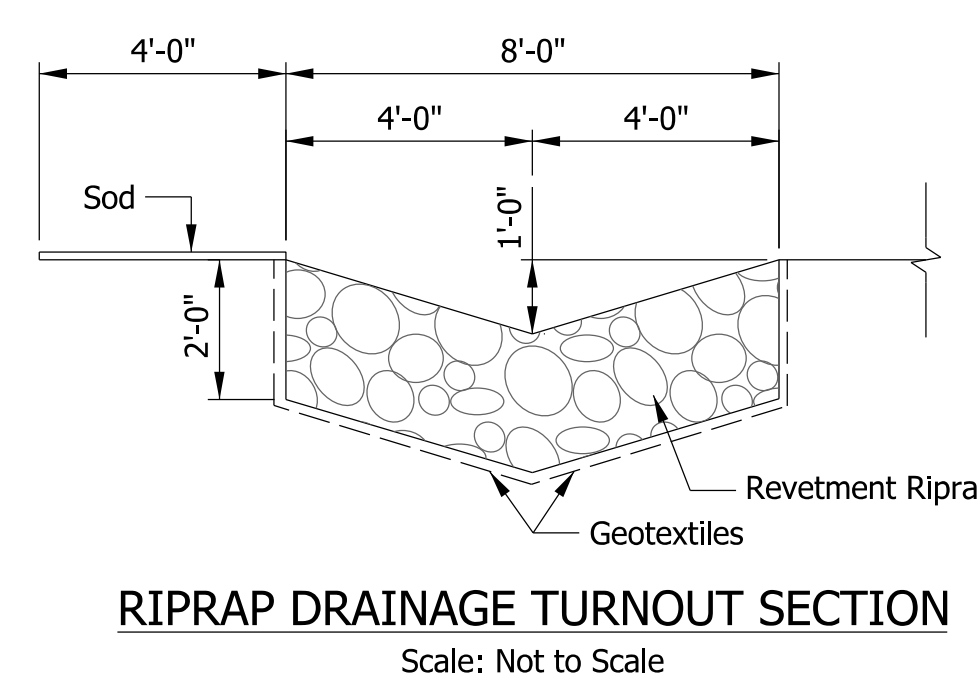
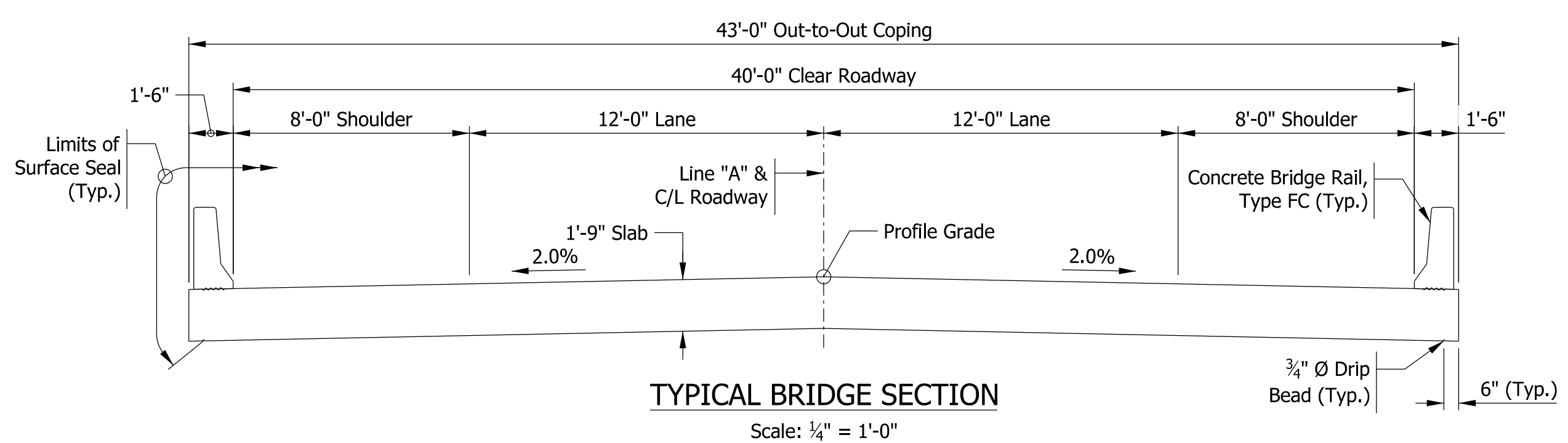
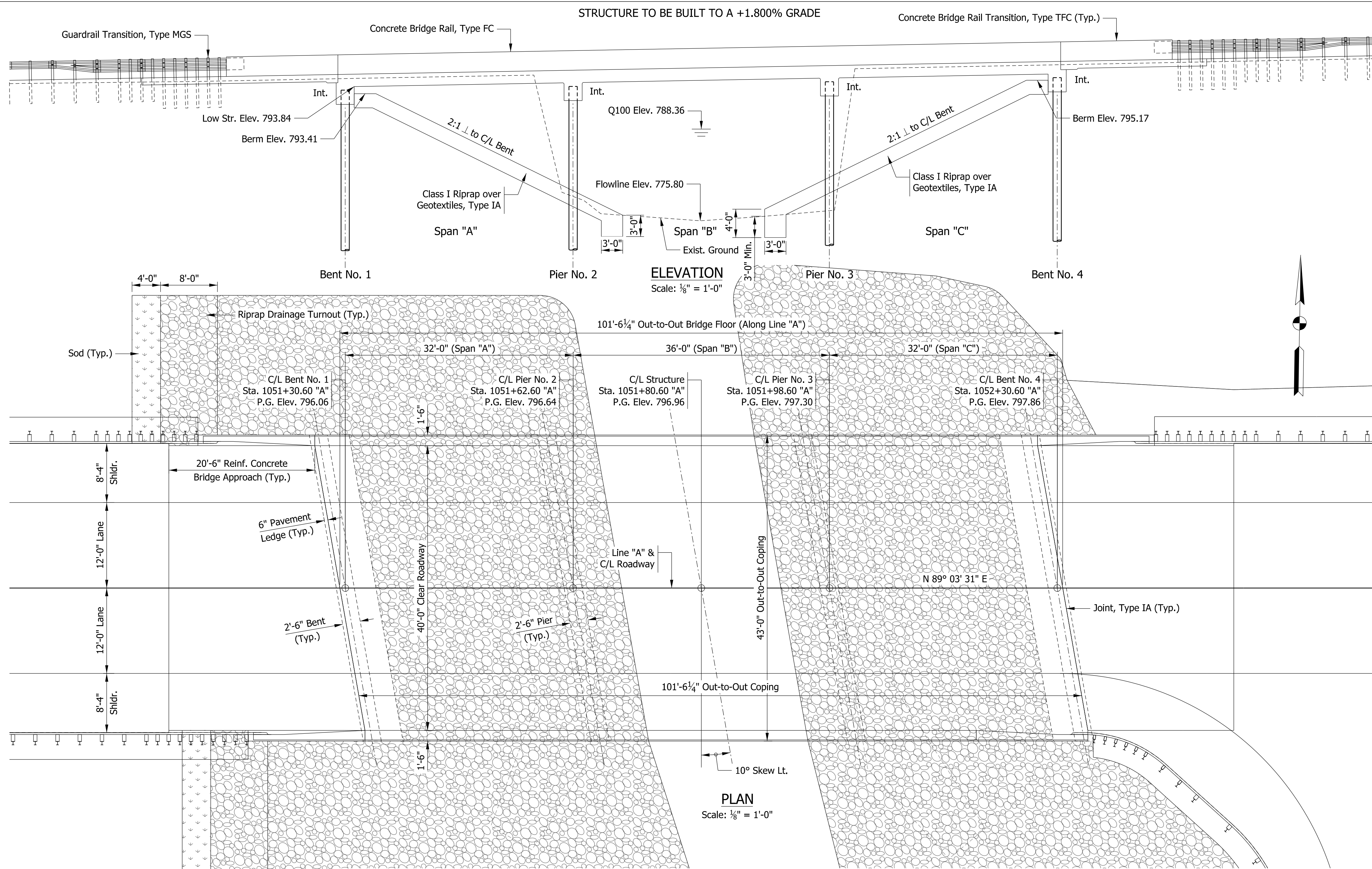
Fill +25%	900 CYS
Common Excavation	1,485 CYS
Waterway Excavation	963 CYS
Waste	1,548 CYS
Benching (estimated)	535 CYS

NOTE: No direct payment for benching. Benching will be included in the cost of common excavation.

CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE
 3 SPANS: 32'-0", 36'-0", 32'-0"
 40'-0" CLEAR SPAN; 10° SKEW LT.
 U.S. 224 OVER HOLHOUSE DITCH
 ADAMS COUNTY, INDIANA

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER		DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: KCH		DRAWN: KCH/PFC		1" = 30'	224-01-10306
CHECKED: MJM	CHECKED: SG/MJM			LAYOUT	VERTICAL SCALE	DESIGNATION
					1" = 5'	1701394
					SURVEY BOOK	SHEETS
					ELECTRONIC	12 of 30
					CONTRACT	PROJECT
					B-42474	1701394

Model: Layout 9/10/2019 1:14:11 PM User: kharrison



CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE
 3 SPANS: 32'-0", 36'-0", 32'-0"
 40'-0" CLEAR SPAN; 10° SKEW LT.
 U.S. 224 OVER HOLHOUSE DITCH
 ADAMS COUNTY, INDIANA

GENERAL NOTES

PLANS FOR THE EXISTING STRUCTURE ARE ON FILE WITH INDOT UNDER STRUCTURE 224-01-01546. EXISTING STRUCTURE TO BE REMOVED.

REINFORCING STEEL COVER SHALL BE 2 1/2" MIN. IN TOP AND 1" MIN IN BOTTOM OF FLOOR SLABS AND 2" IN ALL OTHER PARTS UNLESS NOTED.

THE EXPOSED FACES OF THE END BENTS, THE TOP OF THE DECK, ALL EXPOSED FACES OF THE CONCRETE BARRIER, THE FACE OF THE DECK COPING AND THE UNDERSIDE OF THE DECK FROM THE COPING TO THE DRIP BEAD SHALL BE SEALED WITH A PENETRATING EPOXY SEALER.

WHERE NEW WORK IS TO BE FITTED TO OLD WORK, THE CONTRACTOR SHALL CHECK ALL DIMENSIONS AND CONDITIONS IN THE FIELD, REPORT ALL ERRORS AND DISCREPANCIES TO THE ENGINEER AND ASSUME RESPONSIBILITY FOR THEIR CORRECTNESS AND THE FIT OF THE NEW PART TO THE OLD.

DESIGN STRENGTHS

CLASS "C" CONCRETE f'c = 4,000 PSI
 REINFORCING STEEL fy = 60,000 PSI

DESIGN DATA

LIVE LOAD: DESIGNED FOR HL-93 LOADING WITH IMPACT AND DISTRIBUTION IN ACCORDANCE WITH THE 2017 A.A.S.H.T.O. LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, WITH INTERIMS THROUGH 2018.

DEAD LOAD: ACTUAL WEIGHT PLUS 35 PSF (COMPOSITE) FOR FUTURE WEARING SURFACE.

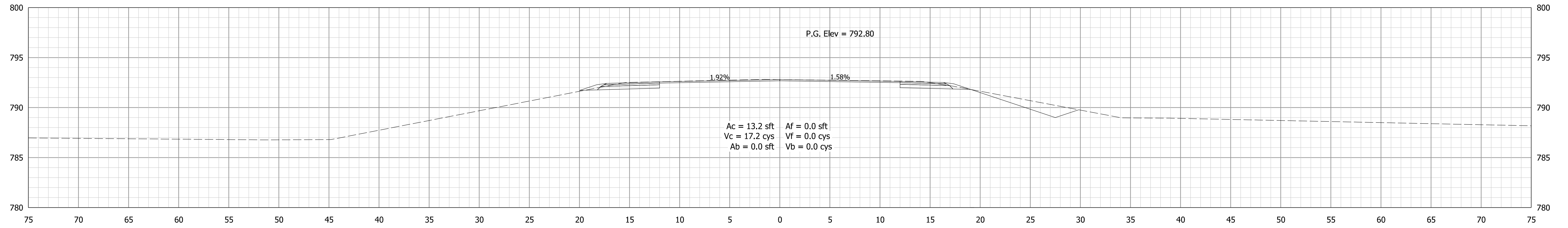
FLOOR SLAB: DESIGNED WITH A 1'-8 1/2" STRUCTURAL DEPTH AND A 1/2" INTEGRAL WEARING SURFACE.

INDIANA
 DEPARTMENT OF TRANSPORTATION

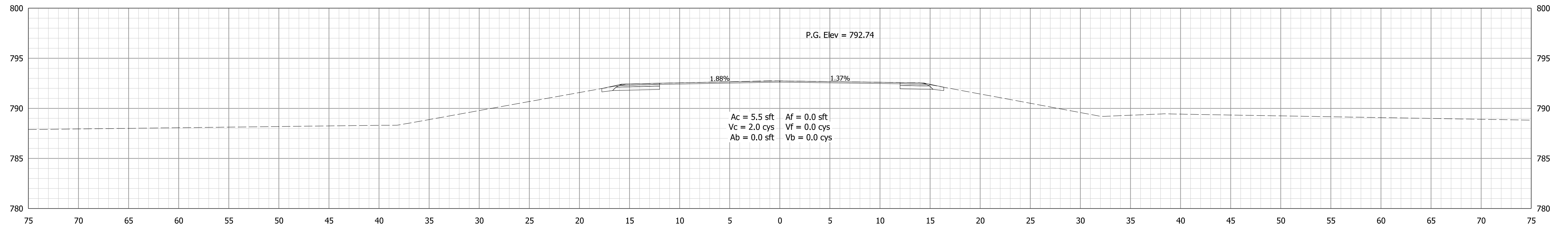
GENERAL PLAN

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: MG	DRAWN: PFC	
CHECKED: MJM	CHECKED: MJM	

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	224-01-10306
VERTICAL SCALE	DESIGNATION
AS NOTED	1701394
SURVEY BOOK	SHEETS
ELECTRONIC	13 of 30
CONTRACT	PROJECT
B-42474	1701394

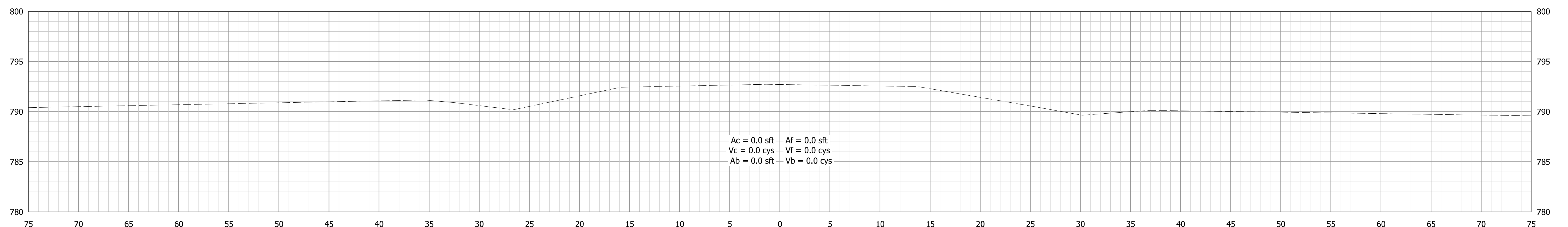


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1047+50.00 "A"

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Sta. 1047+40.00 "A"



1047+00.00 "A"

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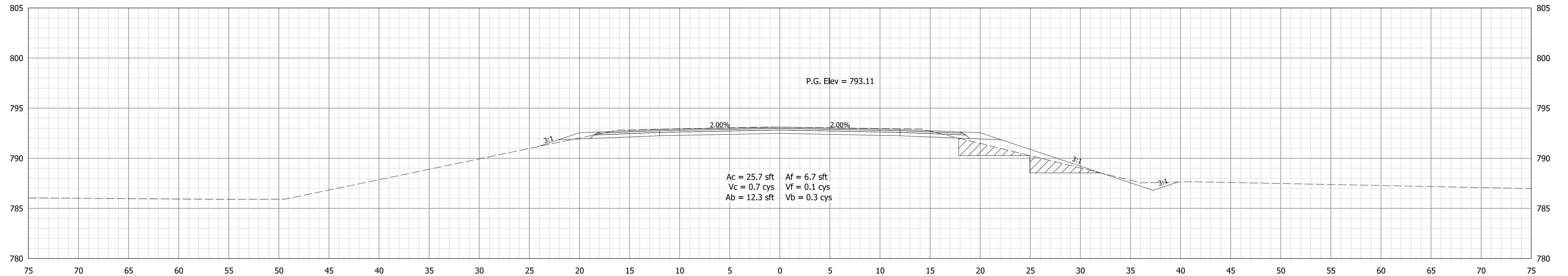
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ PFC	DRAWN: _____ PFC	
CHECKED: _____ MJM	CHECKED: _____ SG	

INDIANA
DEPARTMENT OF TRANSPORTATION

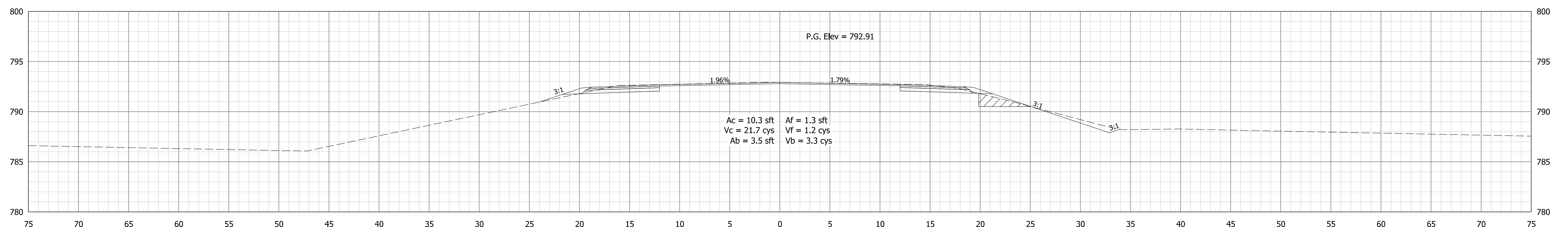
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 15 of 30
CONTRACT B-42474	PROJECT 1701394



1049+00.00 "A"

BEGIN PROJECT
 Sta. 1049+00.00 "A"



1048+50.00 "A"

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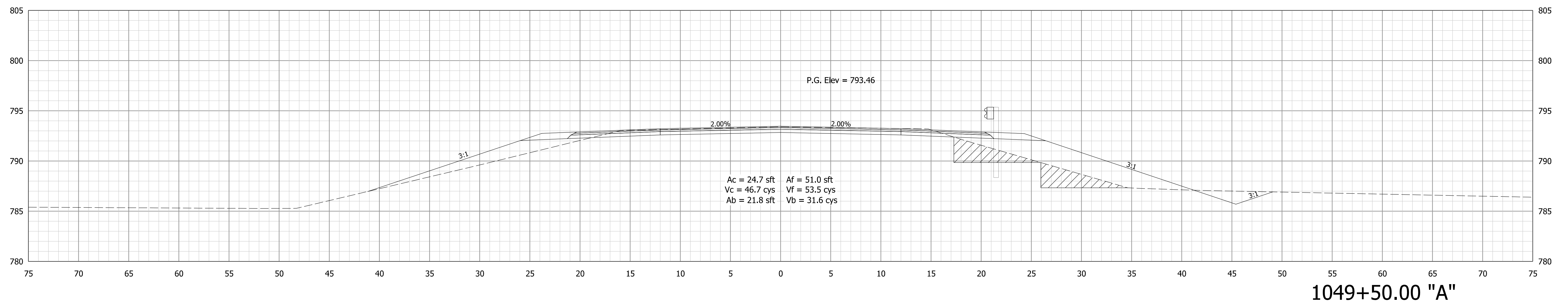
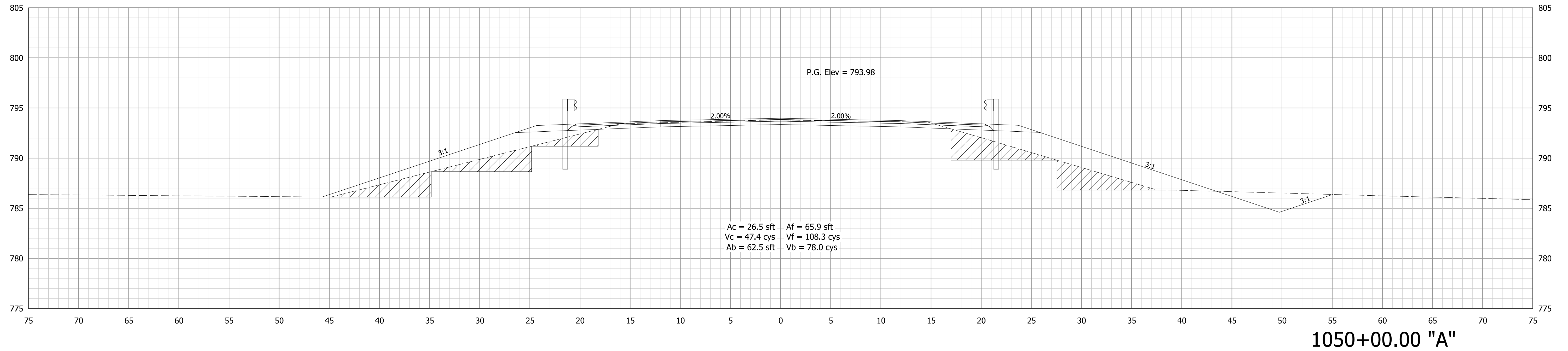
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ PFC	DRAWN: _____ PFC	
CHECKED: _____ MJM	CHECKED: _____ SG	

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK	SHEETS
ELECTRONIC	16 of 30
CONTRACT B-42474	PROJECT 1701394



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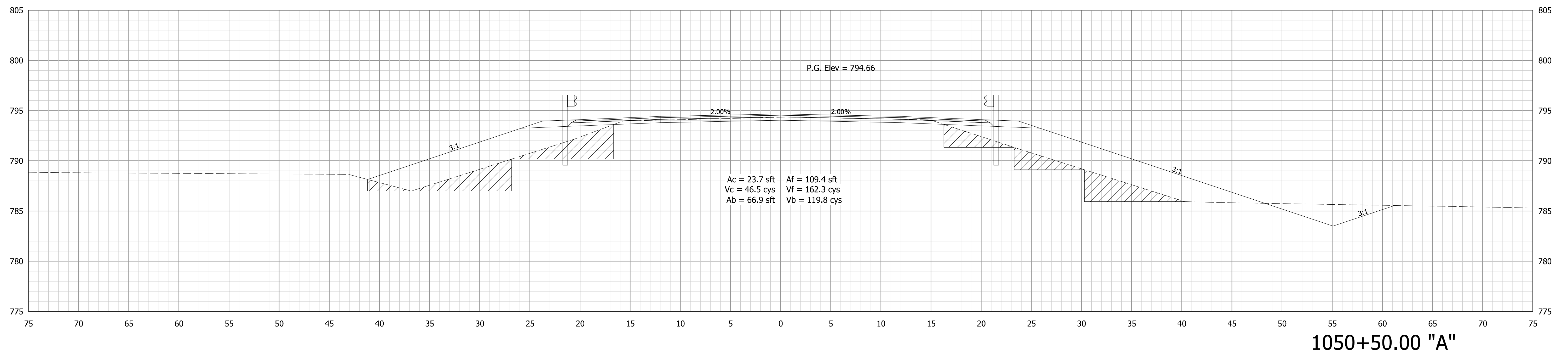
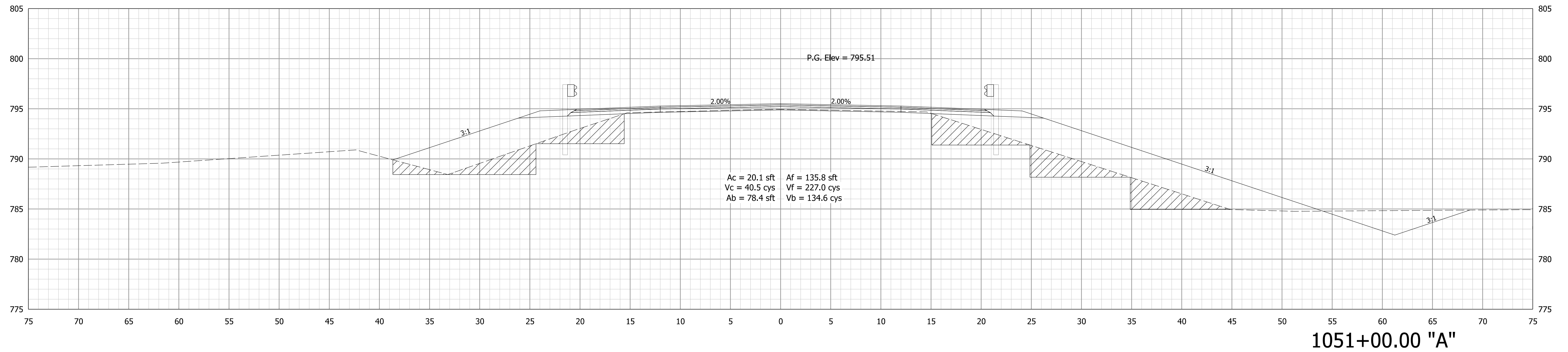
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RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE _____	DESIGNED: _____ PFC _____ DRAWN: _____ PFC _____ CHECKED: _____ MJM _____ CHECKED: _____ SG _____
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INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 17 of 30
CONTRACT B-42474	PROJECT 1701394



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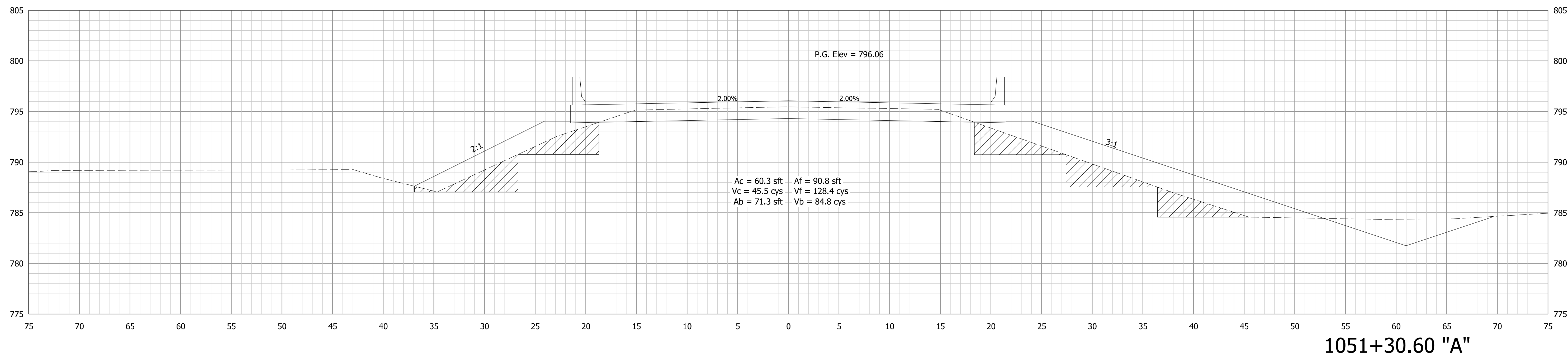
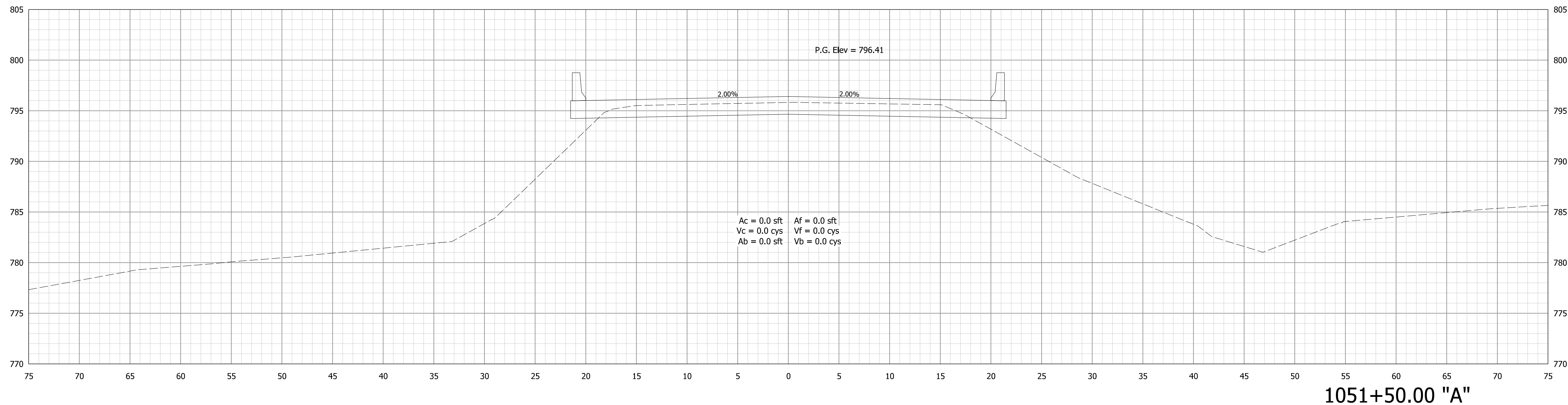
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: PFC	DRAWN: PFC	
CHECKED: MJM	CHECKED: SG	

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	224-01-10306
VERTICAL SCALE	DESIGNATION
1" = 5'	1701394
SURVEY BOOK	SHEETS
ELECTRONIC	18 of 30
CONTRACT	PROJECT
B-42474	1701394

STA. 1050+50.00 "A" TO STA. 1051+00.00 "A"



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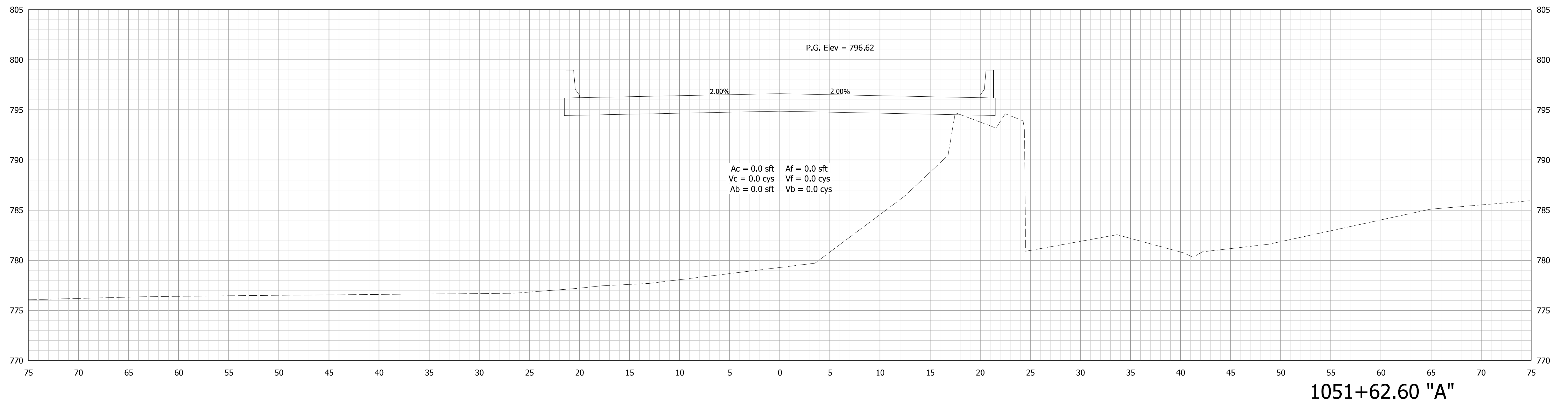
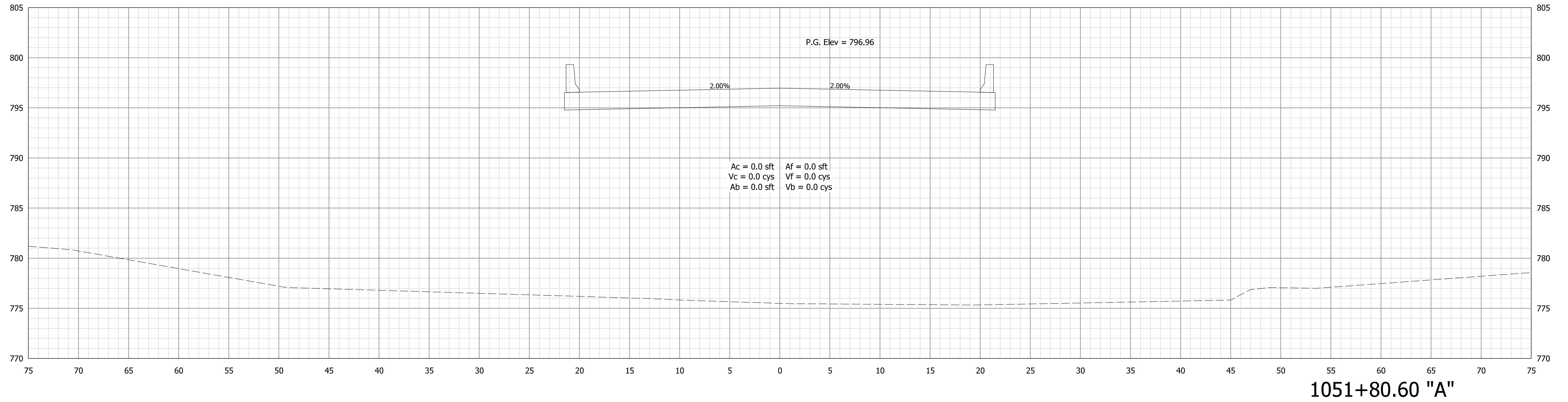
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: PFC	DRAWN: PFC	
CHECKED: MJM	CHECKED: SG	

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	224-01-10306
VERTICAL SCALE	DESIGNATION
1" = 5'	1701394
SURVEY BOOK	SHEETS
ELECTRONIC	19 of 30
CONTRACT	PROJECT
B-42474	1701394



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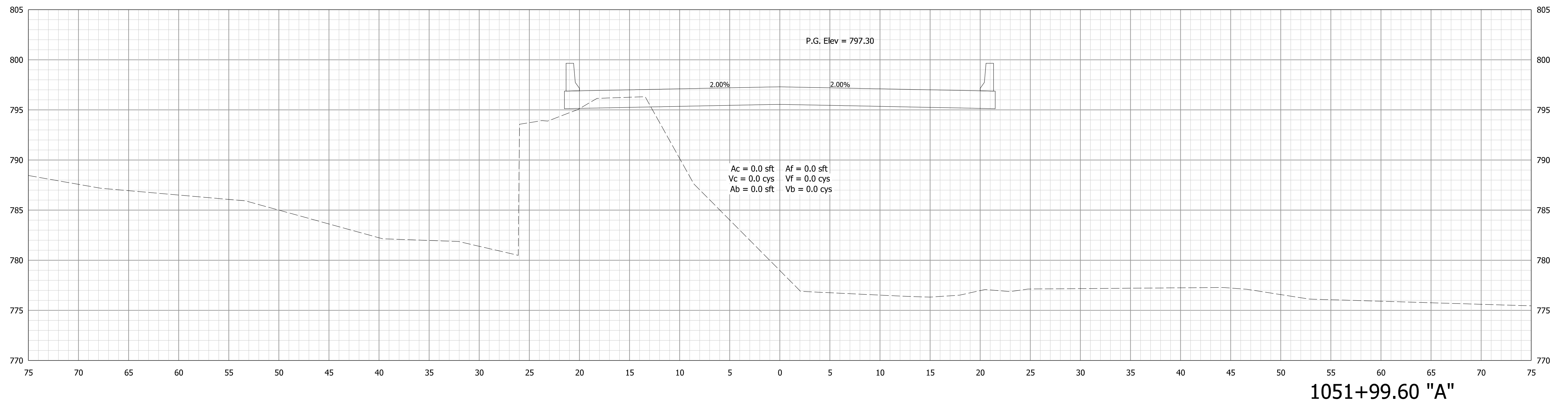
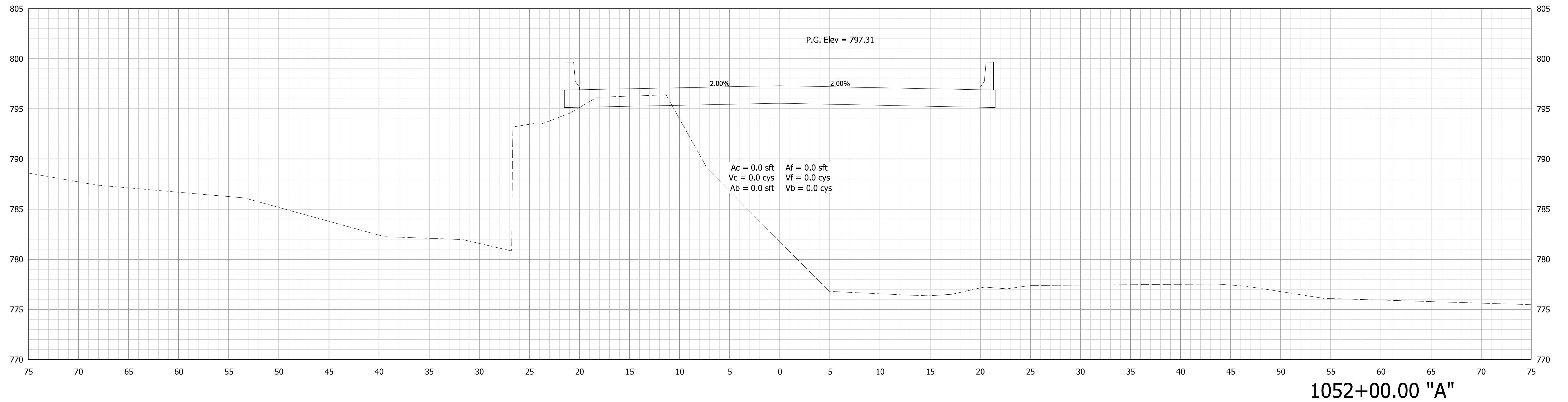
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ PFC _____	DRAWN: _____ PFC _____	
CHECKED: _____ MJM _____	CHECKED: _____ SG _____	

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 20 of 30
CONTRACT B-42474	PROJECT 1701394

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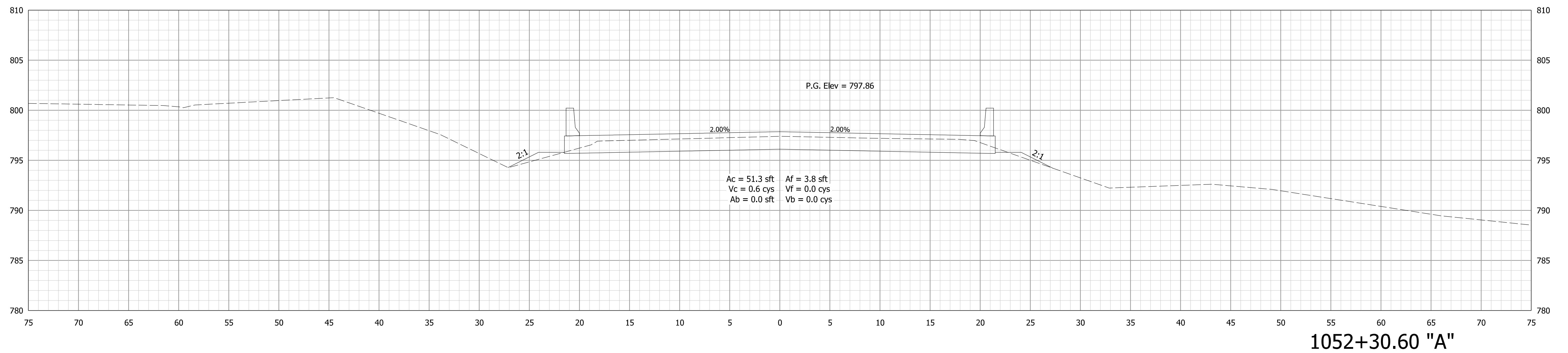
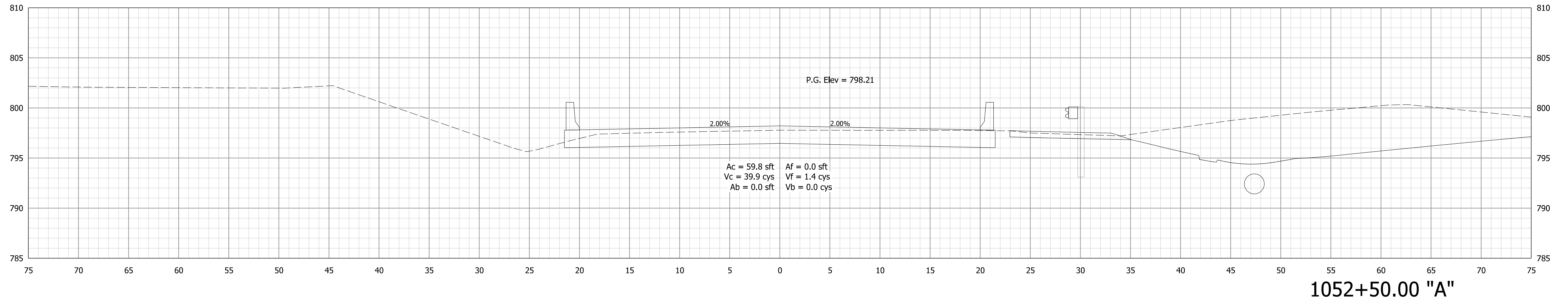
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ PFC _____	DRAWN: _____ PFC _____	
CHECKED: _____ MJM _____	CHECKED: _____ SG _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LINE "A"**

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 21 of 30
CONTRACT B-42474	PROJECT 1701394



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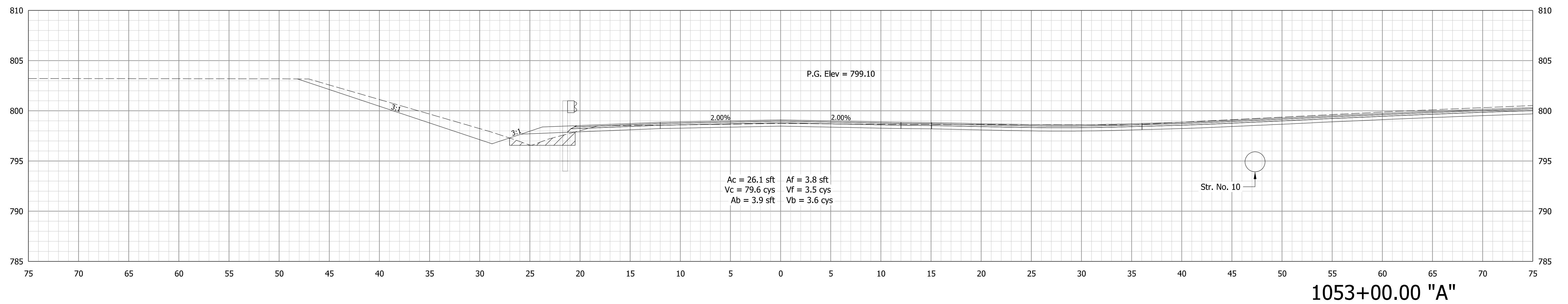
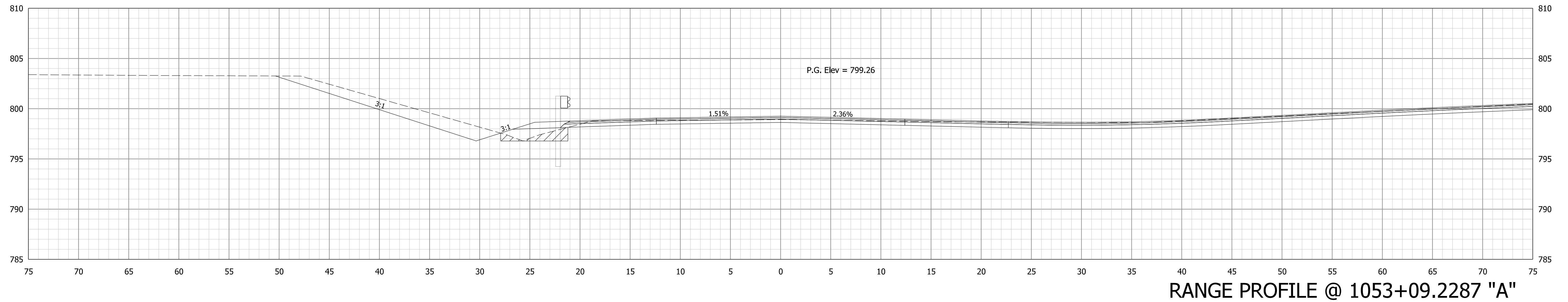
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ PFC _____	DRAWN: _____ PFC _____	
CHECKED: _____ MJM _____	CHECKED: _____ SG _____	

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 22 of 30
CONTRACT B-42474	PROJECT 1701394



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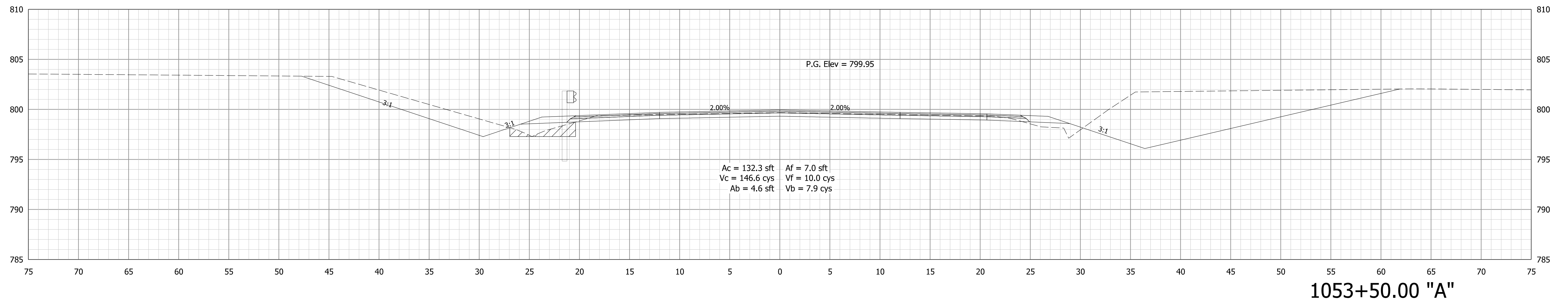
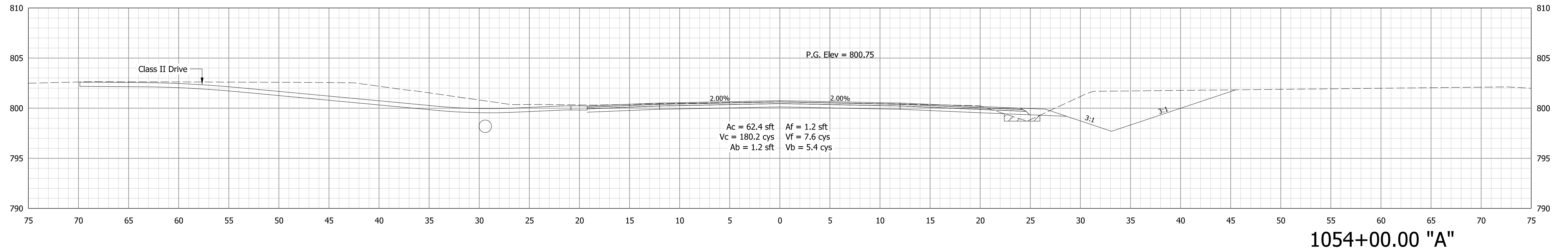
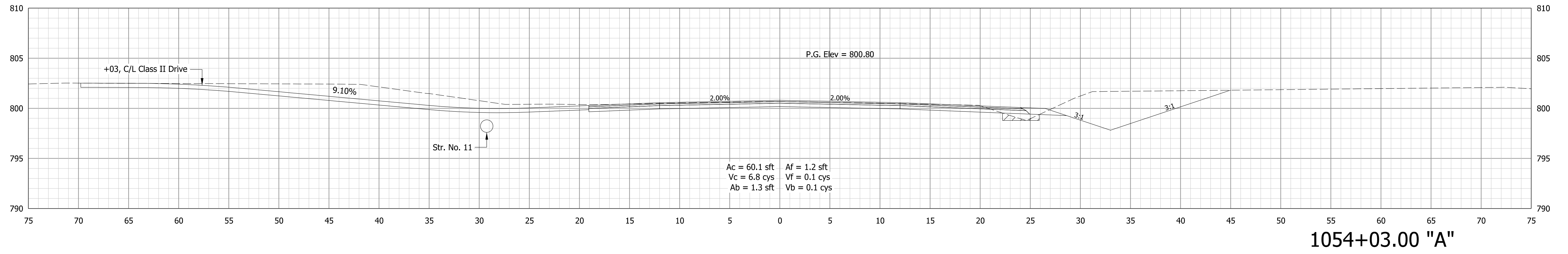
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ PFC _____	DRAWN: _____ PFC _____	
CHECKED: _____ MJM _____	CHECKED: _____ SG _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 23 of 30
CONTRACT B-42474	PROJECT 1701394



Model: A1
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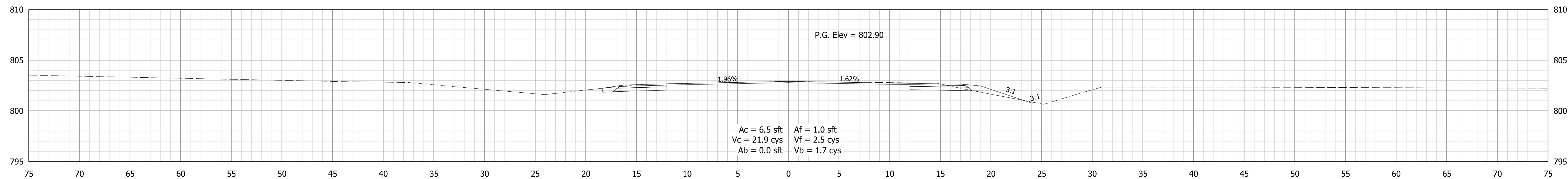
RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: PFC	DRAWN: PFC	
CHECKED: MJM	CHECKED: SG	

INDIANA
DEPARTMENT OF TRANSPORTATION

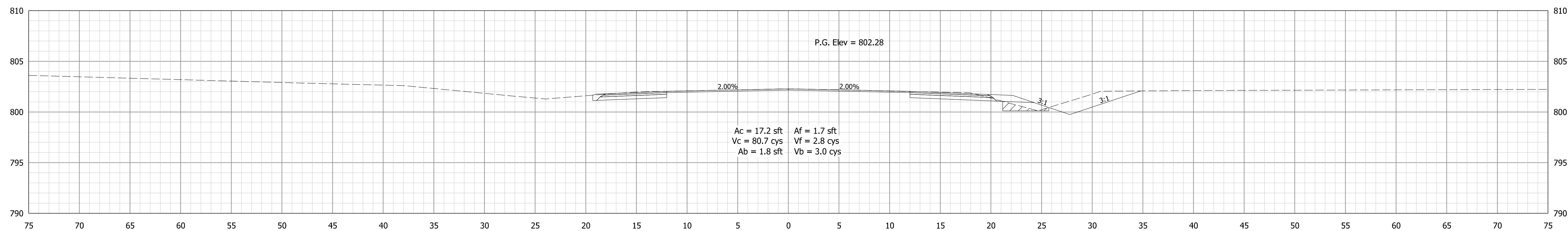
CROSS SECTIONS
LINE "A"

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VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 24 of 30
CONTRACT B-42474	PROJECT 1701394

STA. 1053+50.00 "A" TO STA. 1054+03.00 "A"

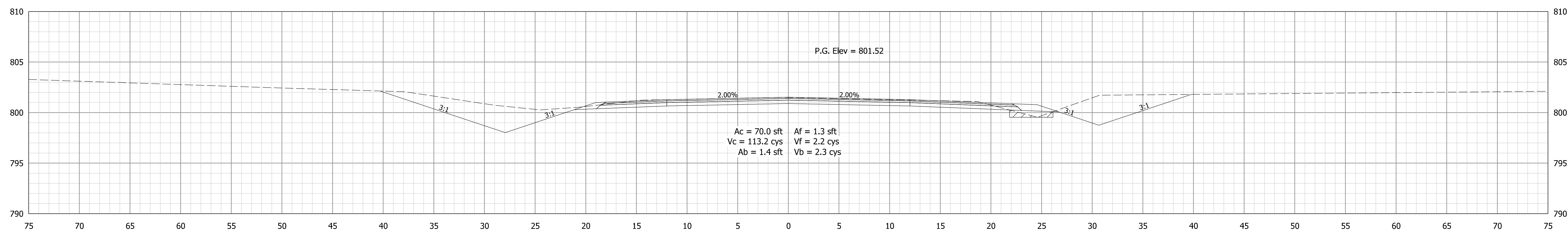


1055+50.00 "A"



1055+00.00 "A"

END PROJECT
Sta. 1055+00.00 "A"



1054+50.00 "A"

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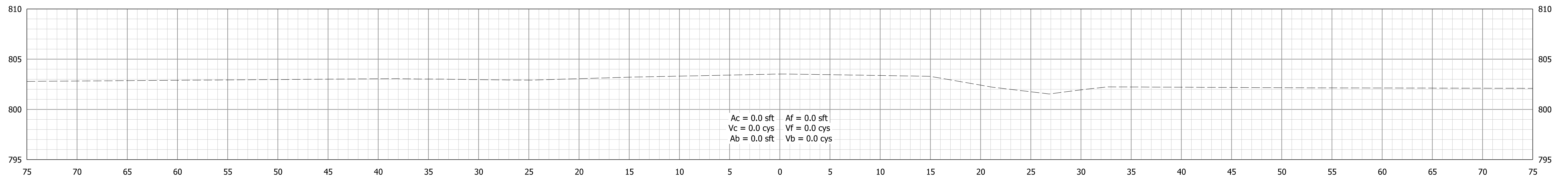
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RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: PFC	DRAWN: PFC	
CHECKED: MJM	CHECKED: SG	

INDIANA
DEPARTMENT OF TRANSPORTATION

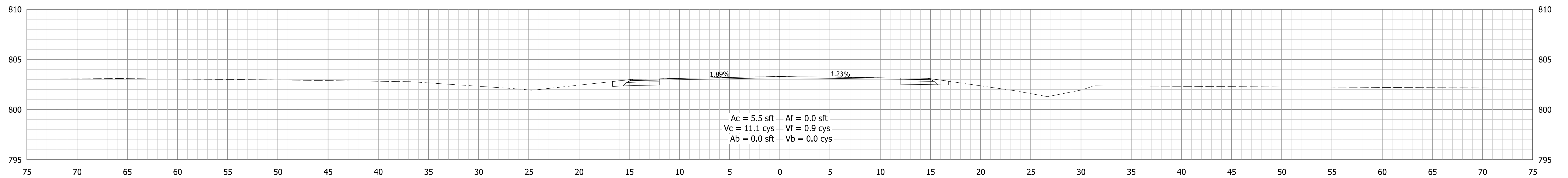
CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	224-01-10306
VERTICAL SCALE	DESIGNATION
1" = 5'	1701394
SURVEY BOOK	SHEETS
ELECTRONIC	25 of 30
CONTRACT	PROJECT
B-42474	1701394



1056+50.00 "A"

End Incidental Construction
Sta. 1056+00.00 "A"



1056+00.00 "A"

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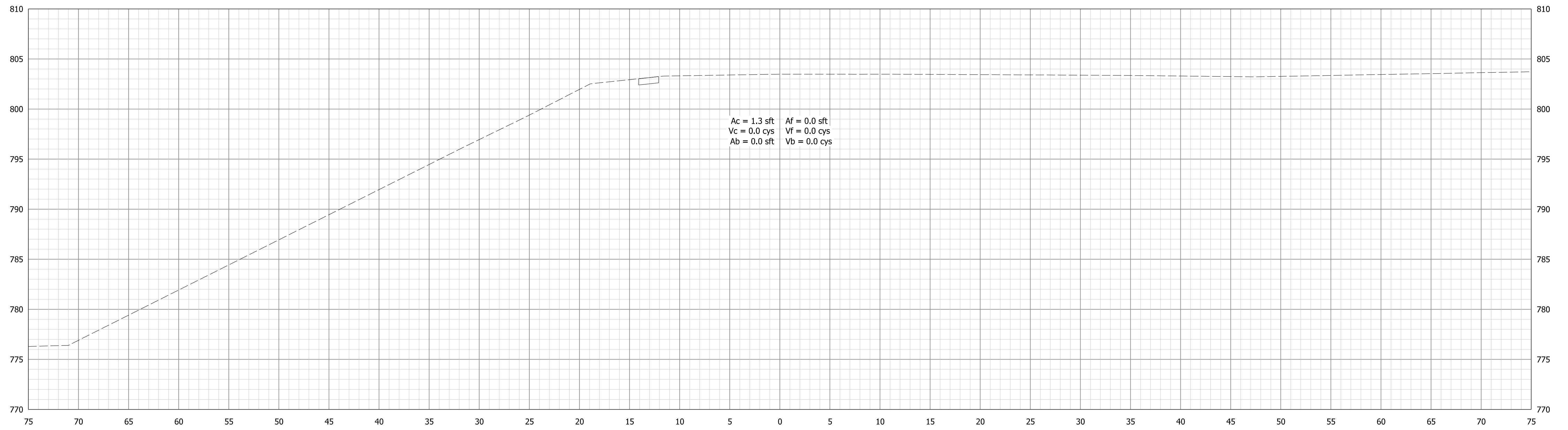
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ PFC _____	DRAWN: _____ PFC _____	
CHECKED: _____ MJM _____	CHECKED: _____ SG _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 26 of 30
CONTRACT B-42474	PROJECT 1701394



2+83.00 "S-1-A"

Model: S1A
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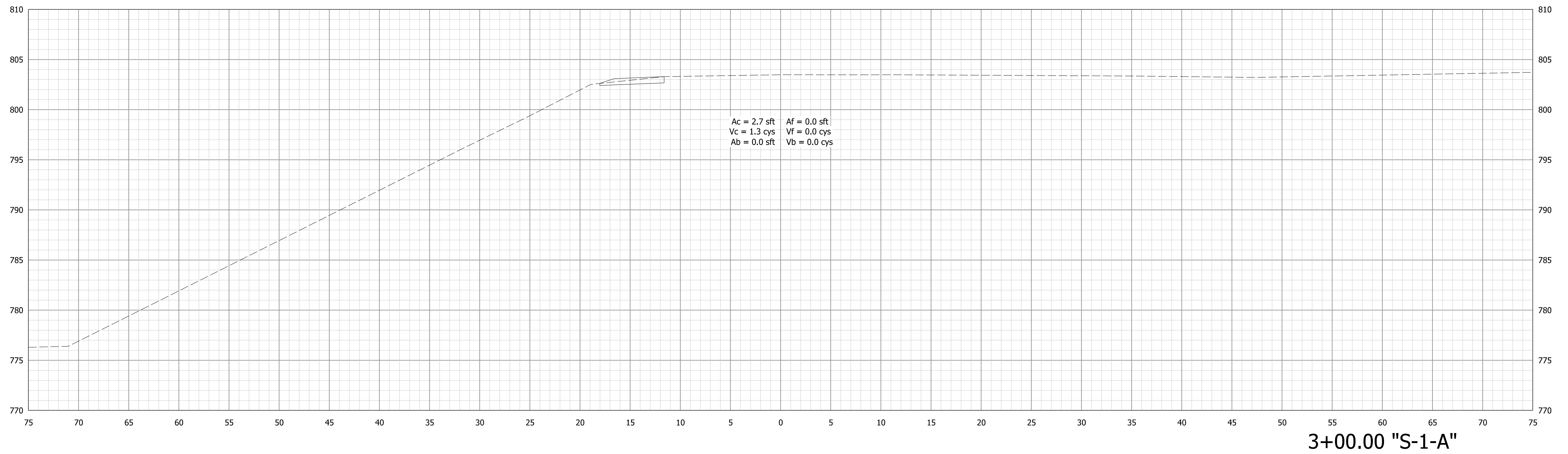
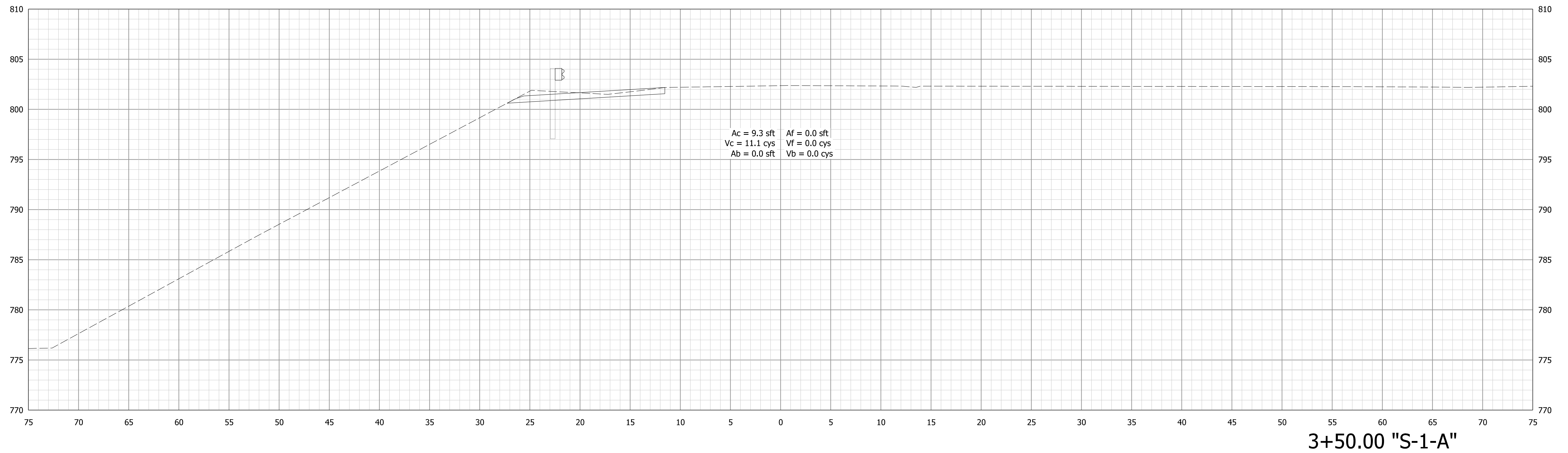
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ PFC _____	DRAWN: _____ PFC _____	
CHECKED: _____ MJM _____	CHECKED: _____ SG _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LINE "S-1-A"**

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 27 of 30
CONTRACT B-42474	PROJECT 1701394



Model: S1A 9/10/2019 1:14:27 PM User: kharrison

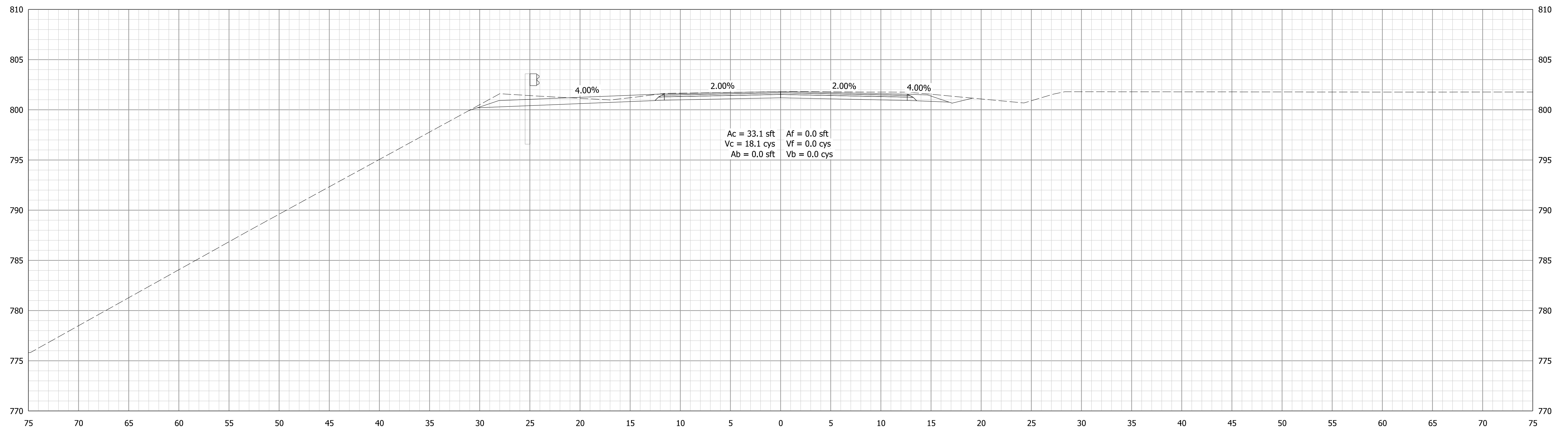
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RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ PFC _____	DRAWN: _____ PFC _____	
CHECKED: _____ MJM _____	CHECKED: _____ SG _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

**CROSS SECTIONS
LINE "S-1-A"**

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK	SHEETS
ELECTRONIC	28 of 30
CONTRACT B-42474	PROJECT 1701394



3+73.00 "S-1-A"

Begin Construction
Sta. 03+73.00 "S-1-A"

Model: S1A
9/10/2019 1:14:28 PM User: kharlison

STA. 3+73.00 "S-1-A" TO STA. 3+73.00 "S-1-A"

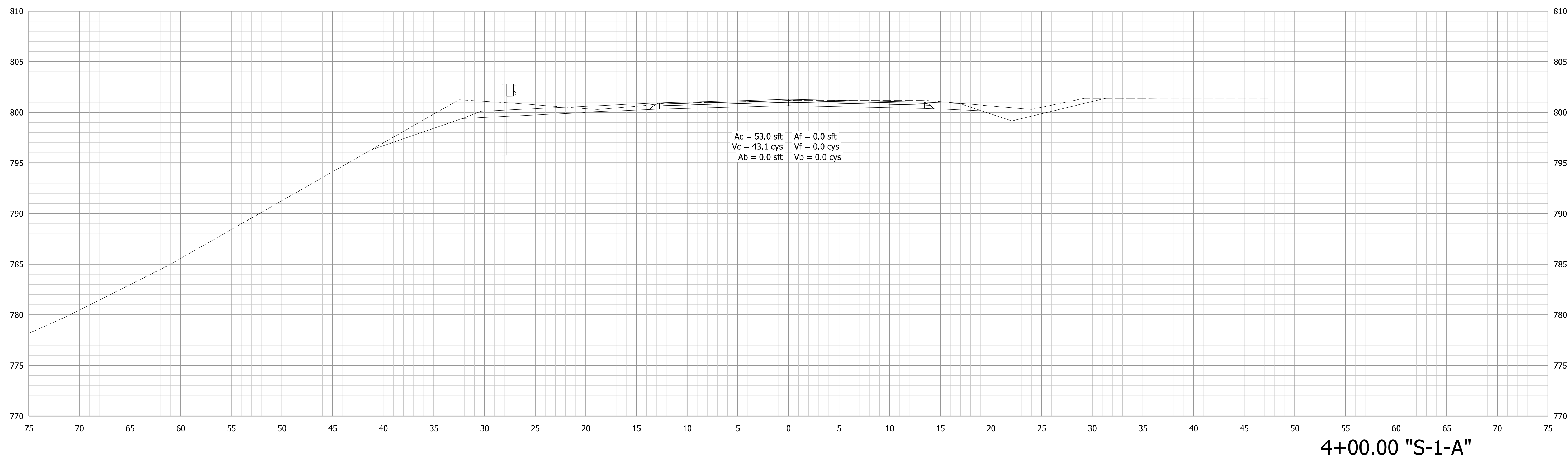
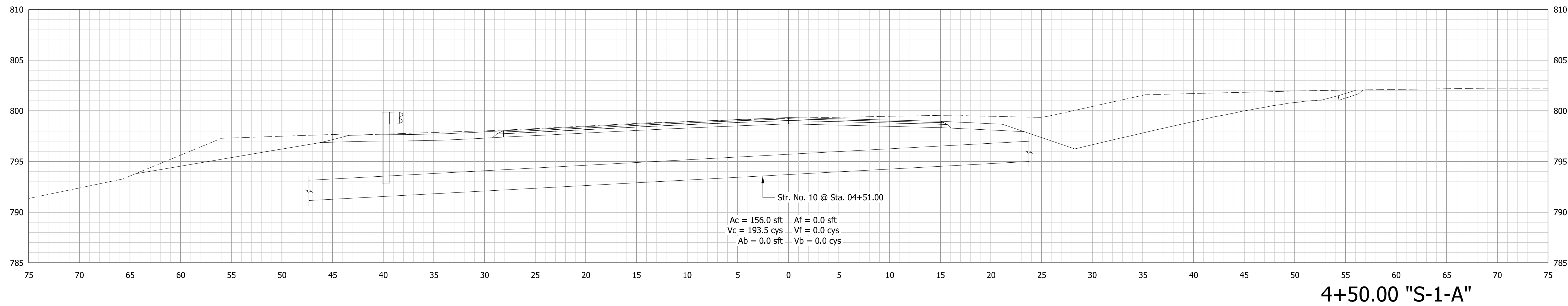
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ PFC _____	DRAWN: _____ PFC _____	
CHECKED: _____ MJM _____	CHECKED: _____ SG _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "S-1-A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 29 of 30
CONTRACT B-42474	PROJECT 1701394

End Construction
Sta. 04+79.35 "S-1-A"



Model: S1A
9/10/2019 1:14:28 PM User: kharrison

RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: _____ PFC _____	DRAWN: _____ PFC _____	
CHECKED: _____ MJM _____	CHECKED: _____ SG _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "S-1-A"

HORIZONTAL SCALE 1" = 5'	BRIDGE FILE 224-01-10306
VERTICAL SCALE 1" = 5'	DESIGNATION 1701394
SURVEY BOOK ELECTRONIC	SHEETS 30 of 30
CONTRACT B-42474	PROJECT 1701394