PROJECT	DESIGNATION
CONTRACT	BRIDGE FILE
	79-00007

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
TIPPECANOE CO. BRIDGE NO.7	PRESTRESSED CONCRETE TYPE I I-BEAM	30° LEFT	LAURAMIE CREEK	℄ STR. STA. 74+37.77 LINE "D"

TIPPECANOE COUNTY HIGHWAY DEPARTMENT

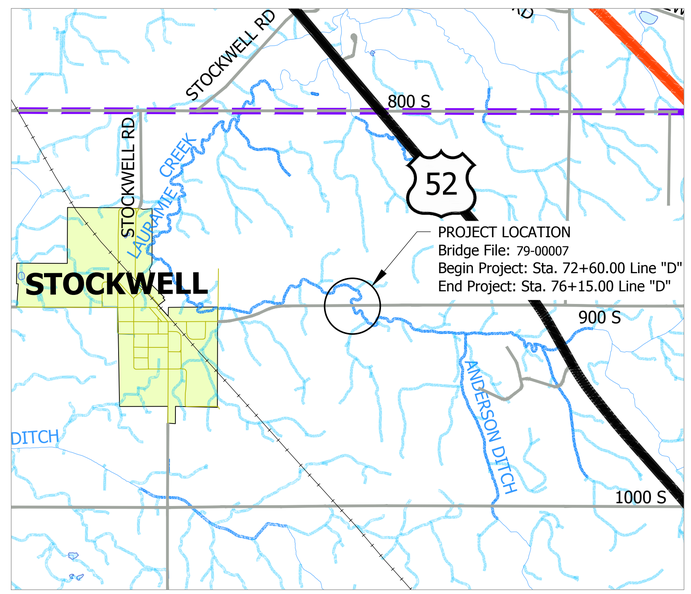
BRIDGE No. 7 PLANS

FOR SPANS OVER 20 FEET

CR 900 S OVER LAURAMIE CREEK

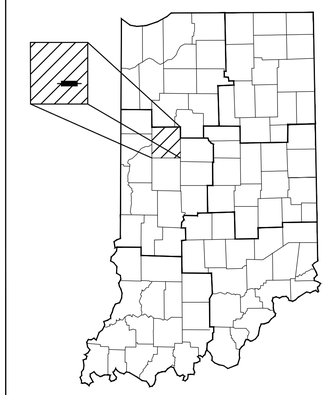
TRAFFIC DATA	
A.A.D.T. (2023)	658 V.P.D.
A.A.D.T. (2043)	803 V.P.D.
D.H.V. (2043)	96 V.P.H.
DIRECTIONAL DISTRIBUTION	52%
TRUCKS	3%
DESIGN DATA	**CR 900 S**
DESIGN SPEED	50 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR COLLECTOR
RURAL/URBAN	RURAL
TERRAIN	LEVEL
ACCESS CONTROL	NONE

Superstructure Replacement on County Road 900 S over Lauramie Creek
Located 0.69 Miles East of CR 725 E
Section 9, T-21-N, R-3-W, Lauramie Township, Tippecanoe County



LOCATION MAP

SCALE: 1" = 2000'



PROJECT LOCATION SHOWN BY
Tippecanoe County

LATITUDE: 40°16'43" N LONGITUDE: 86°45'13" W

PROJECT LENGTH	
BRIDGE LENGTH:	0.009 MILE
ROADWAY LENGTH:	0.070 MILE
TOTAL LENGTH:	0.079 MILE
MAX. GRADE:	3.0 %

HUC14: 05120107040120

NO ADDITIONAL RIGHT-OF-WAY REQUIRED FOR THIS PROJECT

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

VS ENGINEERING
8 N. 3rd St. Suite 302
Lafayette, IN 47901
P: (765) 742-0295
vsei@vsengineering.com
www.vsengineering.com

MICHAEL W. PETERSON
REGISTERED
No. 890025
STATE OF INDIANA
PROFESSIONAL ENGINEER

PLANS PREPARED BY: VS ENGINEERING, INC. TEL: (765) 742-0295 PHONE NUMBER

CERTIFIED BY: Michael W. Peterson 06/12/2023 DATE

BRIDGE FILE		
79-00007		
DESIGNATION		
	SHEET	
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CONTRACT	PROJECT	

PRINT DATE: 6/15/23
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UTILITIES

UTILITY	OWNER	CONTACT
COMMUNICATIONS	FRONTIER	CHARLES McKEAN 2401 CHICAGO ST. VALPARAISO, IN 46383 PHONE: (219) 531-6947 (O) PHONE: (219) 476-5109 (M) E-MAIL: chuck.mckean@ftr.com
GAS	CENTER POINT ENERGY	STEVEN NEAL GAS ENGINEERING 3419 RASCAL DR. LAFAYETTE, IN 47909 PHONE: (765) 449-5673 (O) PHONE: (765) 637-8295 (M) E-MAIL: steven.neal@centerpointenergy.com
ELECTRIC	DUKE ENERGY	DON McDUFFY 100 S. MILL CREEK RD. NOBLESVILLE, IN 46062 PHONE: (317) 776-5320 (O) E-MAIL: dei-dline-coord@duke-energy.com

HOLEY MOLEY SAYS

"DIG SAFELY"

"IT'S THE LAW"

CALL 2 WORKING DAYS BEFORE YOU DIG

811 or 1-800-382-5544

CALL TOLL FREE

*PER INDIANA STATE LAW IC8-1-26.
IT IS AGAINST THE LAW TO EXCAVATE
WITHOUT NOTIFYING THE UNDERGROUND
LOCATION SERVICE TWO (2) WORKING
DAYS BEFORE COMMENCING WORK.*

GENERAL NOTES

All earth shoulders, median areas, and cut and fill slopes shall be plain or mulch seeded except where sodding is specified.
This set of Plans shall not be construed to be a property retracement survey. Where apparent property lines, corners, subdivision or section corner information are shown, they are based on physical evidence or testimony.
These plans show the location of the utilities as existing in the field by the respective utility companies; therefore, VS Engineering, Inc. does not accept any responsibility for the accuracy of this information.
In accordance with Indiana Code 8-1, Chapter 26, the Contractor shall notify the Indiana Underground Plant Protection Service at 1-800-382-5544 at least two (2) full working days prior to any excavation or demolition.
Utilities in addition to those shown herein may be present.
It shall be the Contractor's responsibility to notify and coordinate with all affected utilities.

INDEX

SHEET No.	SUBJECT
1	TITLE
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9	ABUTMENT NO.1 DETAILS
10	ABUTMENT NO.2 DETAILS
11	FRAMING PLAN & BEAM DETAILS
12	BEAM DETAILS
13 - 14	SUPERSTRUCTURE DETAILS
15	SCREEDS
16	APPROACH SLAB DETAILS
17	BRIDGE SUMMARY
18 - 24	CROSS SECTIONS - LINE "D"

REVISIONS

REV #	SHEET NO.	DATE	DESCRIPTION OF REVISION

MICHAEL W. PETERSON
REGISTERED
No. 890025
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 06/12/2023 DATE

DESIGNED: MWP DRAWN: JRT

CHECKED: JRT CHECKED: MWP

TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

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SCALE	BRIDGE FILE
N/A	79-00007
	DESIGNATION

SHEET 2 of 24

CONTRACT | PROJECT

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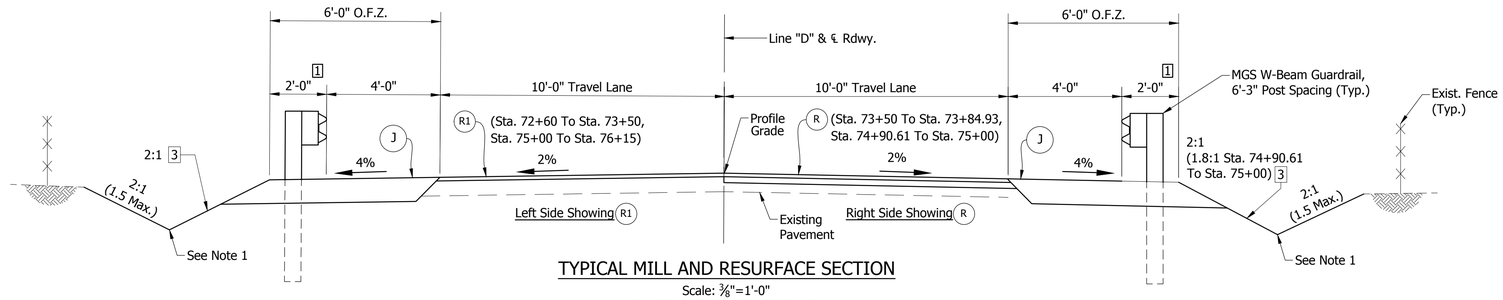
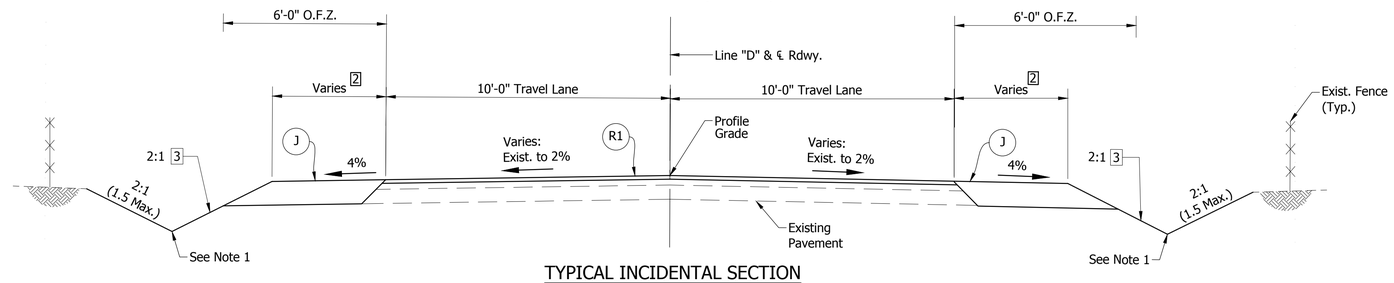


TYPICAL MILL AND RESURFACE SECTION

Scale: ⅜"=1'-0"
Sta. 72+60 To Sta. 73+84.93, "D"
Sta. 74+90.61 To Sta. 76+15, "D"

1 4'-0" at Guardrail End Treatments

3 Transition To 1.5:1 Sta. 74+90.61 To Sta. 75+50
1.5:1 Sta. 75+50 To Sta. 76+15 (See Note 2)



TYPICAL INCIDENTAL SECTION

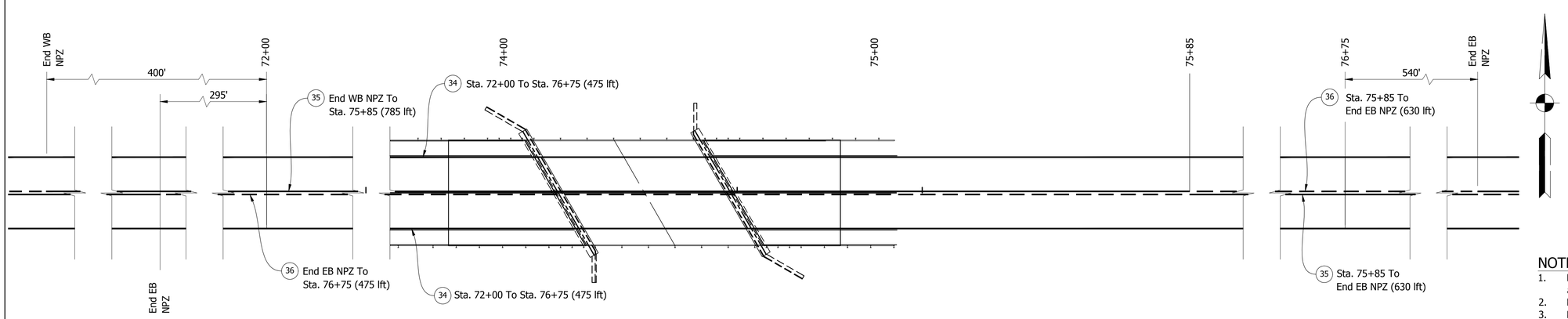
Scale: ⅜"=1'-0"
Sta. 72+00 To Sta. 72+60, "D"
Sta. 76+15 To Sta. 76+75, "D"

2 Varies from 2'-0" to 4'-0" from Sta. 72+00.00 To Sta. 72+60, "D"
Varies from 4'-0" to 2'-0" from Sta. 76+15 To Sta. 76+75, "D"
8'-0" Max. at Guardrail End Treatments

3 1.5:1 Sta. 76+15 To Sta. 76+75 (See Note 2)

LEGEND

- R 165 lbs/syd HMA Surface, 9.5 mm on 275 lbs/syd HMA Intermediate, 19.0 mm on Variable Depth Asphalt Millimg, 4" Average
- R1 165 lbs/syd HMA Surface, 9.5 mm on 1½" Asphalt Milling
- J 10" Compacted Aggregate, No. 53
- 34 4 in. Solid White Paint Line
- 35 4 in. Solid Yellow Paint Line
- 36 4 in. Broken Yellow Paint Line



PAVEMENT MARKING PLAN

Not to Scale

NOTES

1. Ditches shall be constructed such that existing ditch flowlines and grades are perpetuated.
2. Erosion control mat shall be placed on all slopes steeper than 2:1.
3. For grading at Type OS End Treatment, see INDOT Standard Drawing E 601-GRET-06.
4. After Milling the Existing Asphalt Pavement Surface, any cracks that remain visible with 0.25" width or greater shall be sealed before applying Tack Coat to the Milled Surface. The materials used to fill cracks shall be PG 64-22 only; no emulsion should be used. The sealed cracks should not be overbonded.

MICHAEL W. PETERSON
REGISTERED
No. 890025
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 06/12/2023

DESIGNED: MWP | DRAWN: JRT
CHECKED: JRT | CHECKED: MWP

TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	79-00007
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SURVEY BOOK	SHEET		
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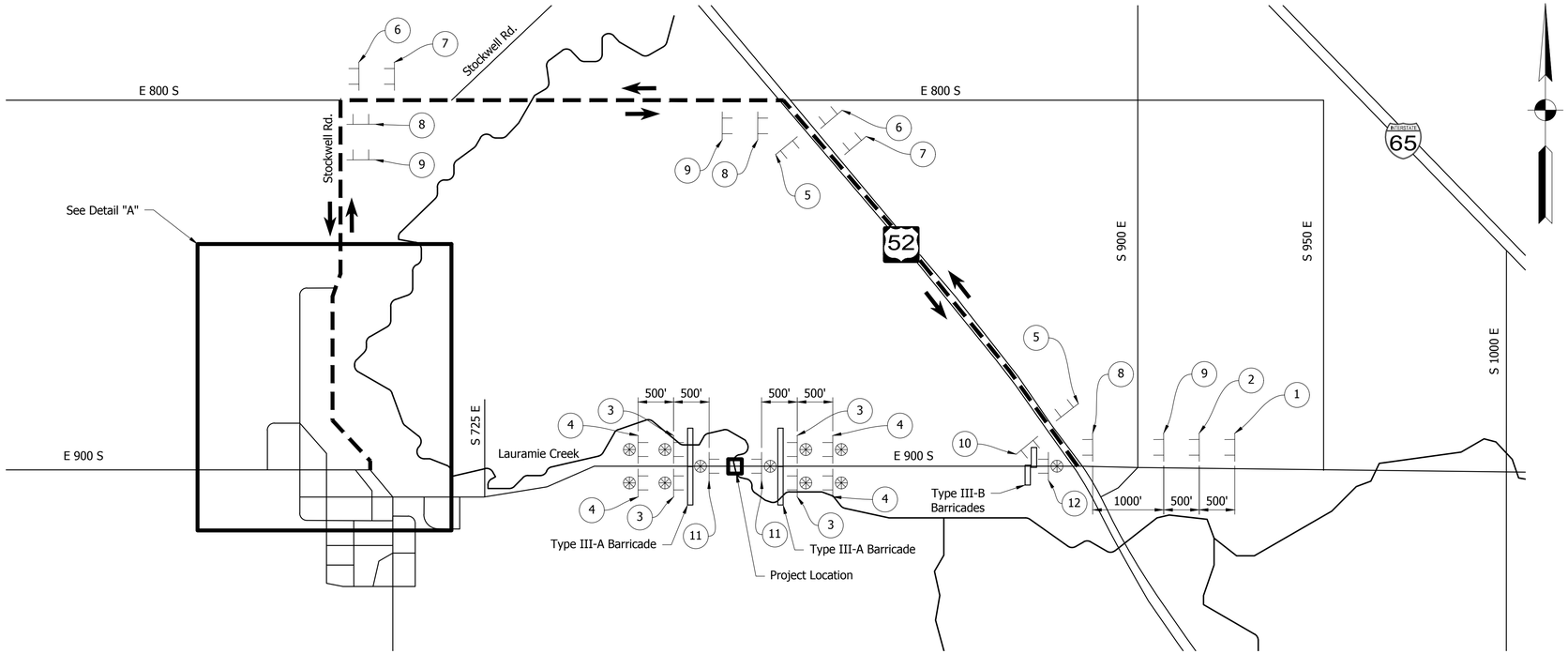
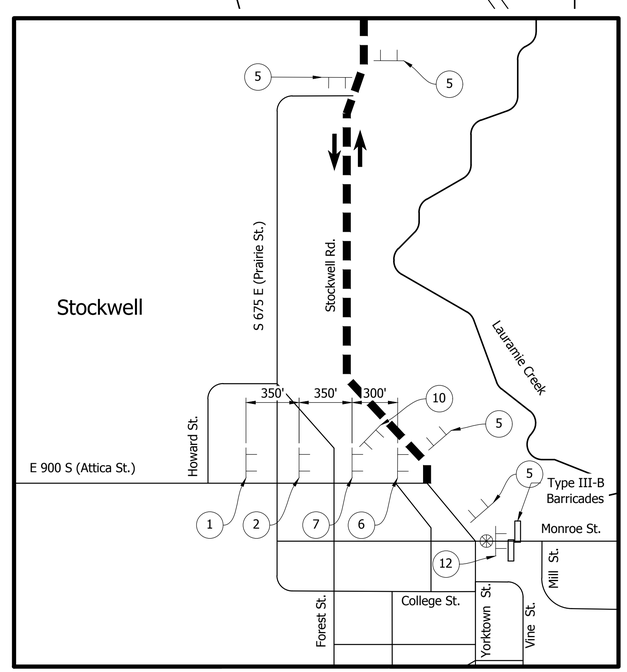


DETOUR PLAN

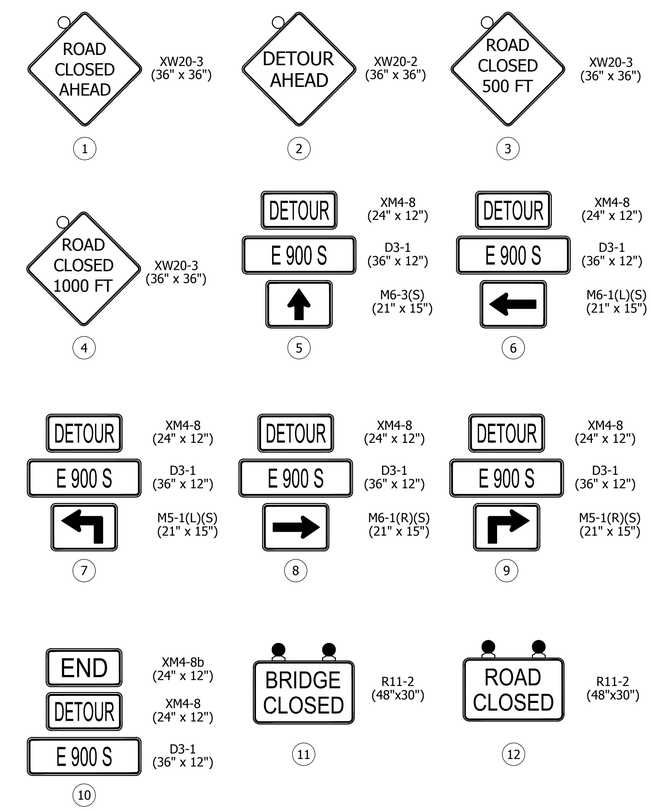
Scale: 1" = 1000'



DETAIL "A"

Scale: 1" = 500'

CONSTRUCTION SIGN LEGEND



M.O.T. QUANTITIES

CONSTRUCTION SIGN, TYPE A	12 EACH
ROAD CLOSURE SIGN ASSEMBLY	4 EACH
DETOUR ROUTE MARKER ASSEMBLY	19 EACH
TYPE III-A BARRICADE	48 LFT
TYPE III-B BARRICADE	24 LFT

LEGEND

- CONSTRUCTION SIGN W/TYPE "A" LIGHT
- CONSTRUCTION SIGN
- DETOUR ROUTE
- DIRECTION OF DETOUR

NOTES:

1. Refer to INDOT Standard Drawings E 801-TCDT, E 801-TCSN, E 801-TCLG For Further Details of Traffic Control Signs.

MICHAEL W. PETERSON REGISTERED No. 890025 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 06/12/2023

DESIGNED: MAH | DRAWN: MAH

CHECKED: MWP | CHECKED: MWP

TIPPECANOE COUNTY HIGHWAY DEPARTMENT

TRAFFIC MAINTENANCE DETAILS

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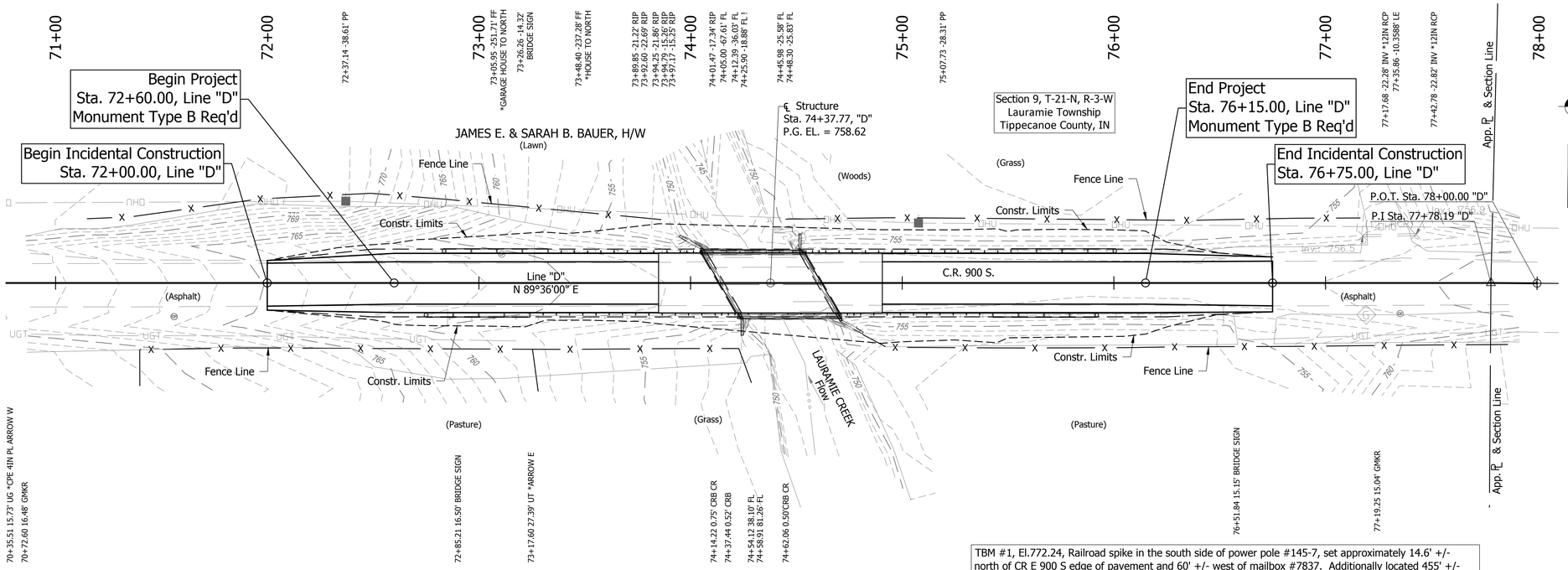


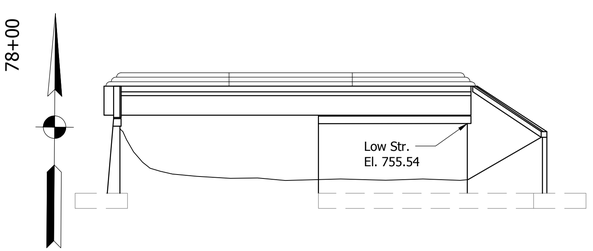
SITUATION PLAN

SCALE: 1" = 30'-0" CONTOUR INTERVAL = 1 FT.

TBM #1, El.772.24, Railroad spike in the south side of power pole #145-7, set approximately 14.6' +/- north of CR E 900 S edge of pavement and 60' +/- west of mailbox #7837. Additionally located 455' +/- from the centerline of the bridge over Lauramie Creek.

TBM #2, El.758.92, Cut square in the southwest wing wall of bridge. Cut square is located 17.5' +/- west of the centerline of CR E 900 S and 15' +/- south from the centerline of bridge over Lauramie Creek.

TBM #3, El.760.58, Aluminum Bertsen Monument located at the centerline of CR E 900 S approximately 360' +/- from the centerline of bridge over Lauramie Creek.



EXISTING STRUCTURE

The existing structure, built in 1955, is a single-span reinforced concrete girder bridge, 48 feet in length, on cantilever-type reinforced concrete abutments with spread footings. Existing superstructure to be removed.

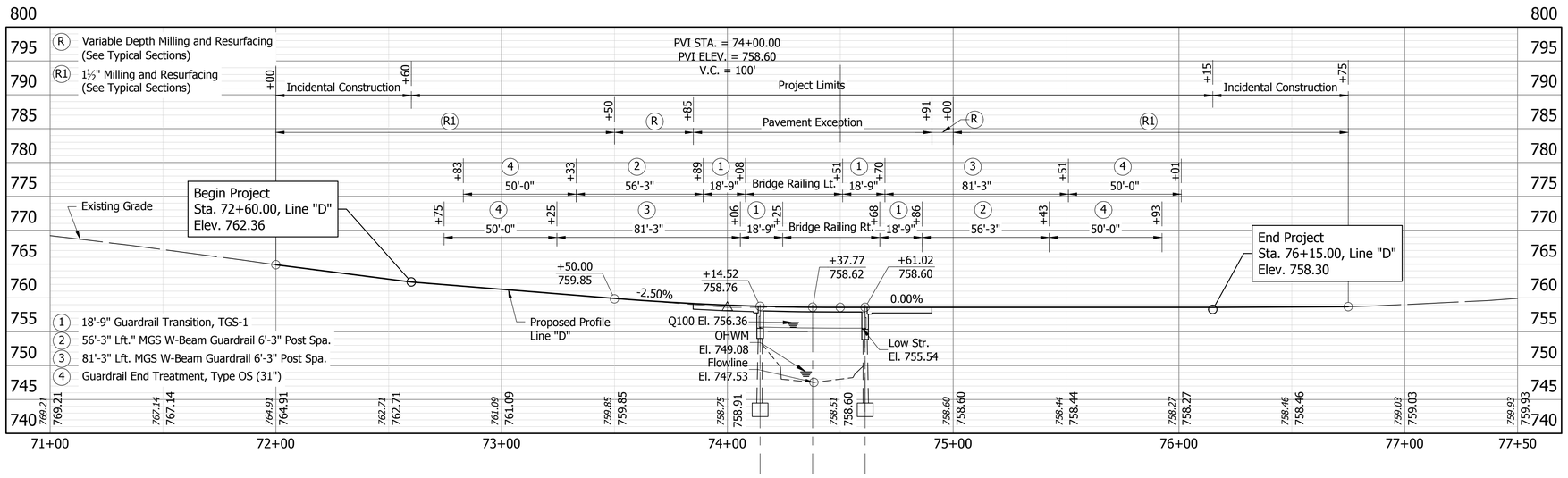
HYDRAULIC DATA

Waterway Opening Required	n/a
Waterway Opening Provided	n/a
Drainage Area	17.60 sq.mi.
Drainage Discharge Q100	2,930 cfs.
Velocity, Average	9.0 ft./s
Q100 Elev.	756.36 ft.
Estimated Scour Elev.	n/a
Backwater at Q100	n/a
Existing Waterway Area	326.00 sft.
Existing Backwater	n/a
Low Structure Elev.	ft.
Existing Low Structure Elev.	755.54 ft.

EARTHWORK TABULATION

Fill +25%	300 cys.
Common Excavation	60 cys.
Borrow	240 cys.
*Benching	200 cys.

* No Direct Payment



PROFILE

SCALE: HORIZ. 1" = 30'-0" VERT. 1" = 10'-0"

PRESTRESSED CONCRETE TYPE I I-BEAM BRIDGE
SUPERSTRUCTURE REPLACEMENT
1 SPAN @ 46'-6"
28'-0" CLEAR ROADWAY SKEW: 30° LEFT
CR 900 S OVER LAURAMIE CREEK
TIPPECANOE COUNTY

MICHAEL W. PETERSON REGISTERED No. 890025 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 06/12/2023

DESIGNED: MWP DRAWN: JRT
CHECKED: JRT CHECKED: MWP

TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

LAYOUT

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	79-00007
VERTICAL SCALE	DESIGNATION
AS NOTED	
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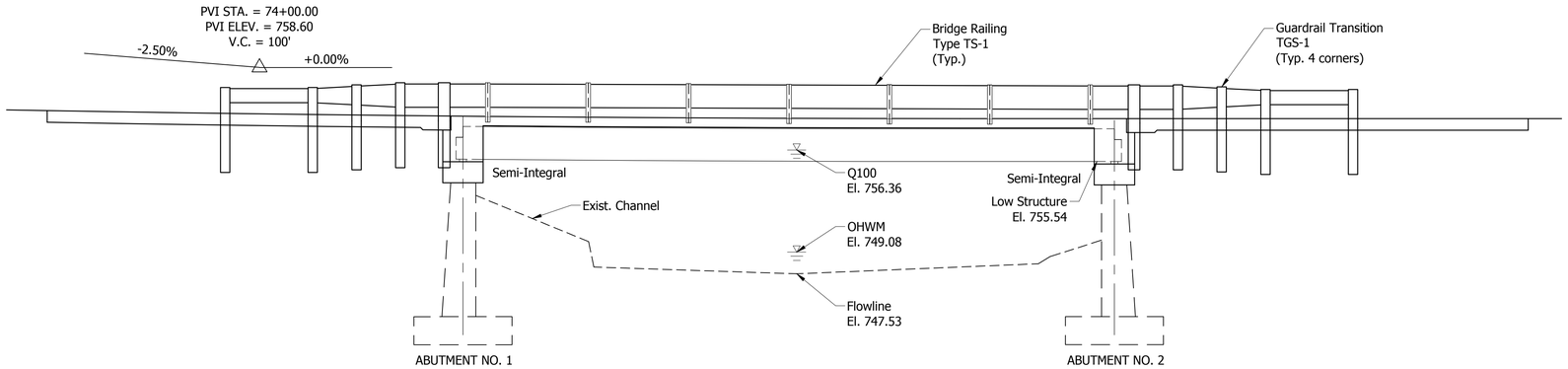
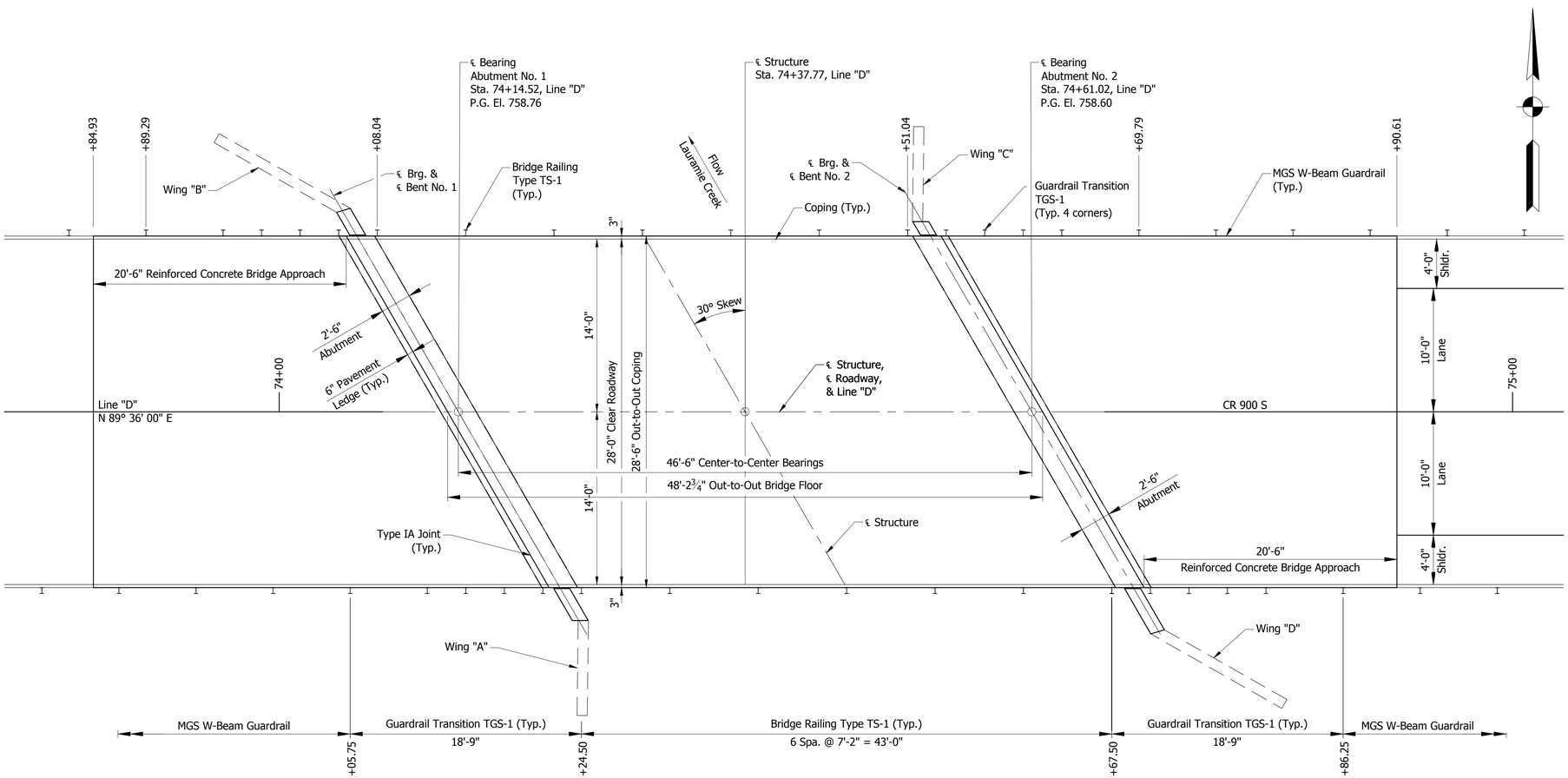
SUPERSTRUCTURE REPLACEMENT BUILT TO A 100' V.C. INTO A 0% GRADE



ELEVATION

Scale: 3/16" = 1'-0"



PLAN

Scale: 3/16" = 1'-0"

GENERAL NOTES

Reinforcing bar covering shall be 2 1/2" in top and 1" in bottom of the floor slabs and 2" in all other parts unless noted.

Where new work is to be fitted to old work, the Contractor shall check all dimensions and conditions in the field, and report any errors or discrepancies to the Engineer and assume responsibility for their correctness and fit of the new part to the old.

Existing abutments shall be patched in accordance with 710 and the Special Provisions. Estimated quantity = 200 sft.

Apply Surface Seal in accordance with 709 to all exposed faces of existing abutments and wings. Estimated quantity = 900 sft.

DESIGN DATA

LIVE LOAD: Designed for HL-93 loading, in accordance with AASHTO LRFD Bridge Design (8th Edition) Specifications and Interims.

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

FLOOR SLAB: Designed for with a 7½" structural depth plus a 1/2" sacrificial wearing surface.

DESIGN STRENGTHS:

CONCRETE:
- Class "C": f'c = 4,000 psi
- Class "A": f'c = 3,500 psi
- Class "B"; f'c = 3,000 psi

REINFORCING BARS:
- Grade 60: fy = 60,000 psi

PRESTRESSED CONCRETE TYPE I I-BEAM BRIDGE
SUPERSTRUCTURE REPLACEMENT
1 SPAN @ 46'-6"
28'-0" CLEAR ROADWAY SKEW: 30° LEFT
CR 900 S OVER LAURAMIE CREEK
TIPPECANOE COUNTY

MICHAEL W. PETERSON REGISTERED No. 890025 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 06/12/2023 DATE

DESIGNED: JRT DRAWN: JRT
CHECKED: MWP CHECKED: MWP

TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

GENERAL PLAN

SCALE	BRIDGE FILE
AS NOTED	79-00007
	DESIGNATION
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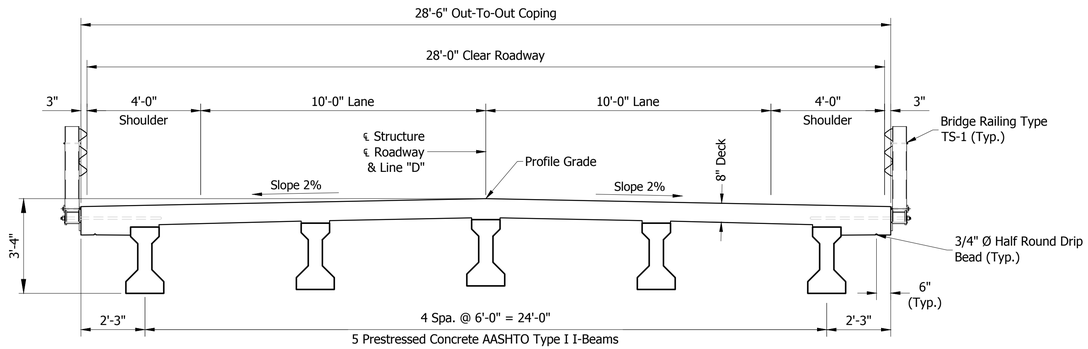
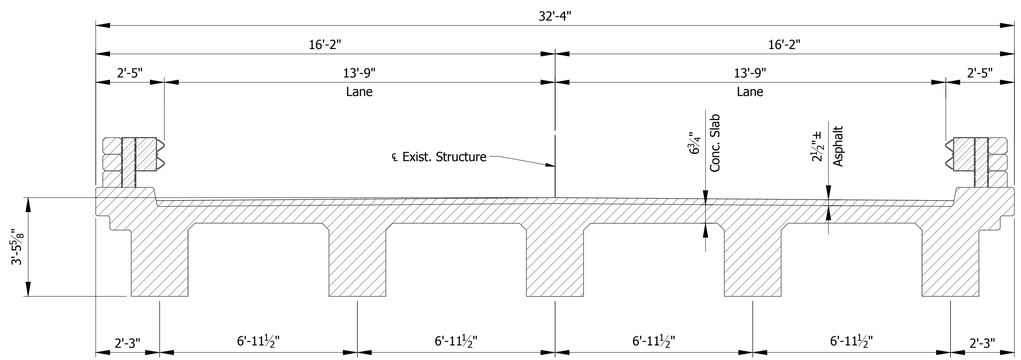


PROPOSED SECTION

Scale: 3/8" = 1'-0"



EXISTING SECTION

(Perpendicular to Roadway)

Scale: 3/8" = 1'-0"

LEGEND

Limits of Present Structure, Remove Portions

PRESTRESSED CONCRETE TYPE I I-BEAM BRIDGE
SUPERSTRUCTURE REPLACEMENT
1 SPAN @ 46'-6"
28'-0" CLEAR ROADWAY SKEW: 30° LEFT
CR 900 S OVER LAURAMIE CREEK
TIPPECANOE COUNTY

MICHAEL W. PETERSON REGISTERED No. 890025 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 06/12/2023

DESIGNED: FL DRAWN: JRT

CHECKED: MWP CHECKED: MWP

TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

GENERAL PLAN

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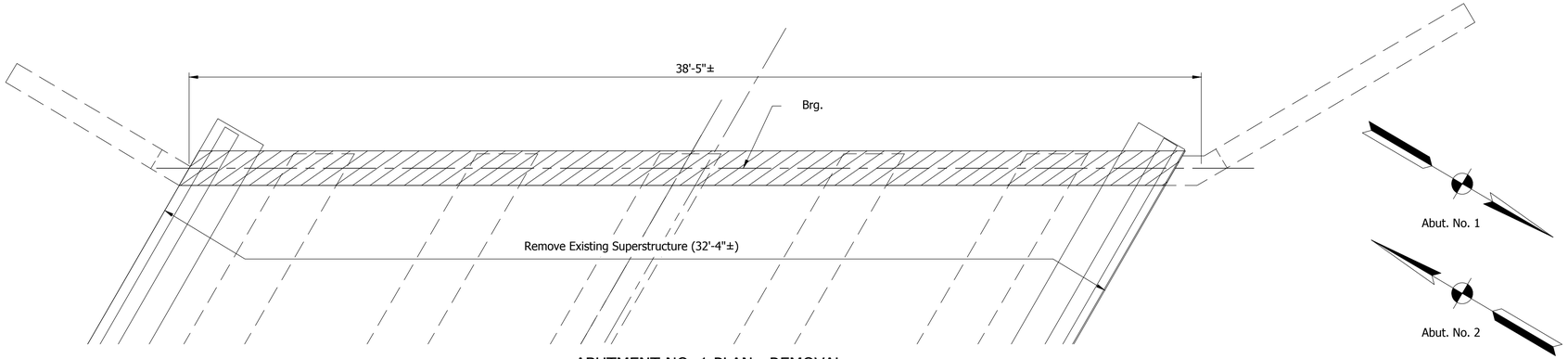
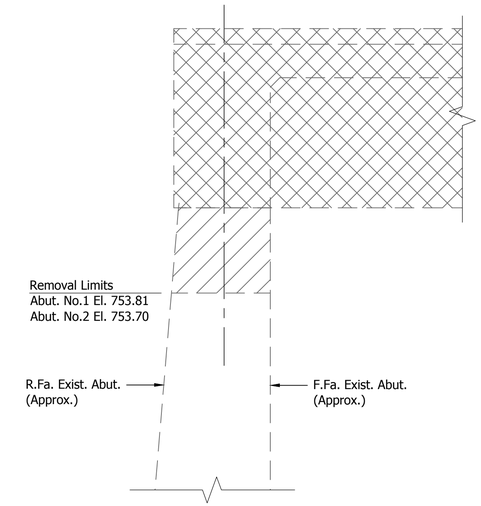


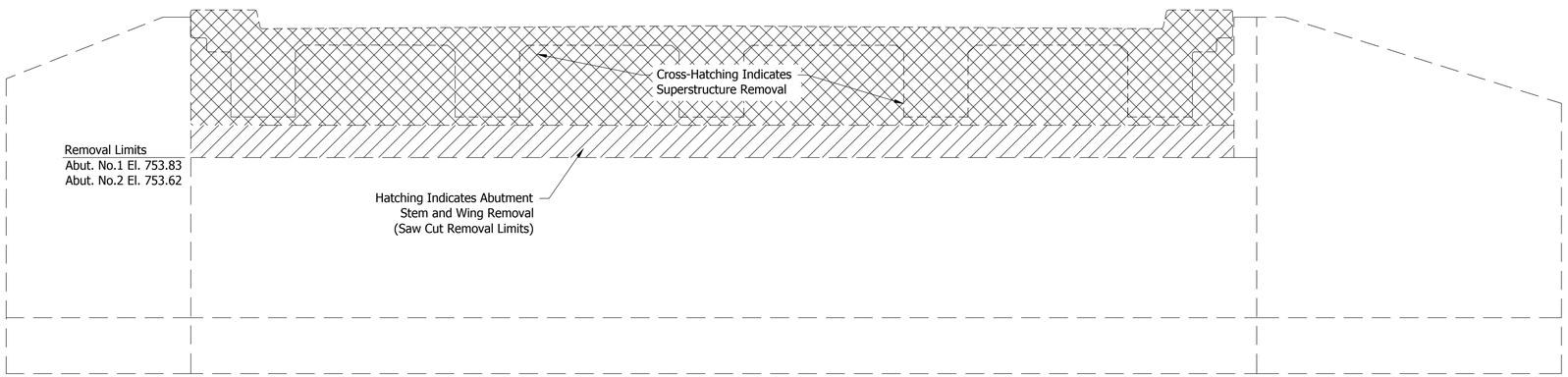
ABUTMENT NO. 1 PLAN - REMOVAL

Scale: 3/8" = 1'-0"
(Abutment No. 1 Shown, Abutment No. 2 Same By 180° Rotation.
Unless Noted Otherwise)



ABUTMENT SECTION - REMOVAL

Scale: 3/4" = 1'-0"



ABUTMENT NO. 1 ELEVATION - REMOVAL

Scale: 3/8" = 1'-0"
(Abutment No. 1 Shown, Abutment No. 2 Same By Other Hand.
Unless Noted Otherwise)

MICHAEL W. PETERSON
REGISTERED
No. 890025
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 06/12/2023

DESIGNED: FL | DRAWN: JRT
CHECKED: MWP | CHECKED: MWP

TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

ABUTMENT REMOVAL DETAILS

SCALE	BRIDGE FILE
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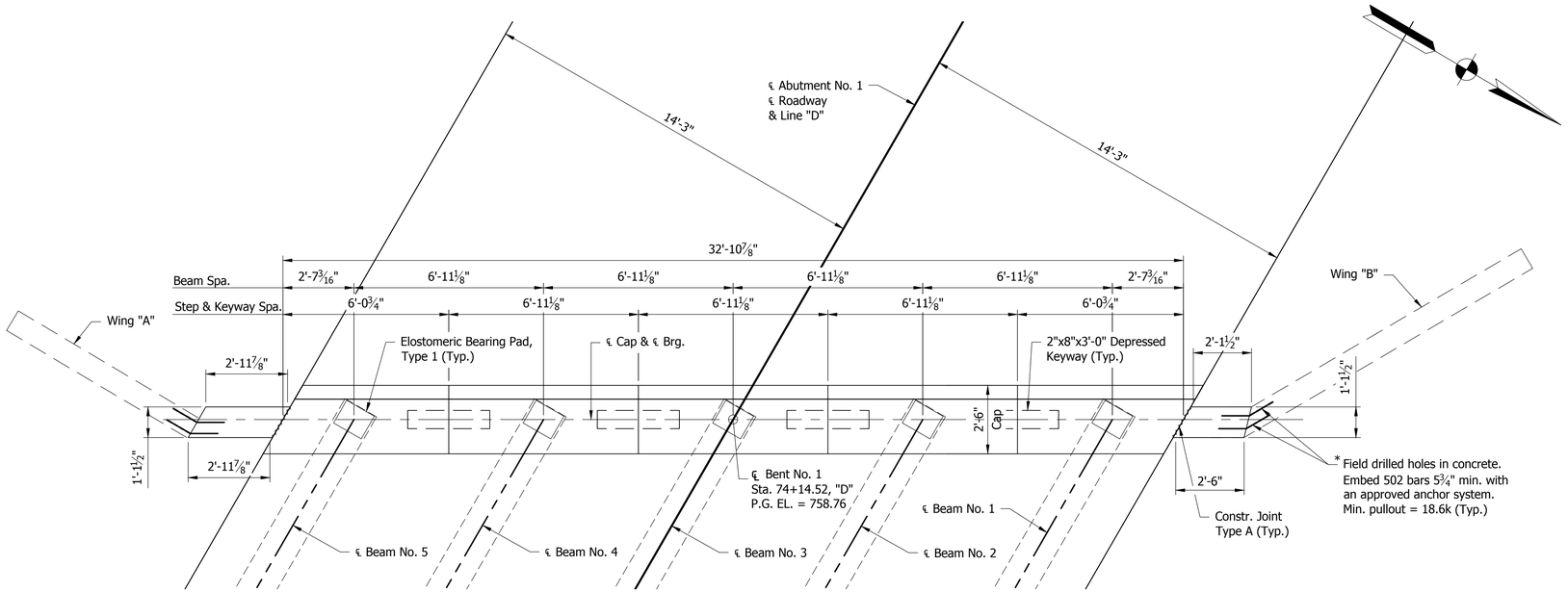
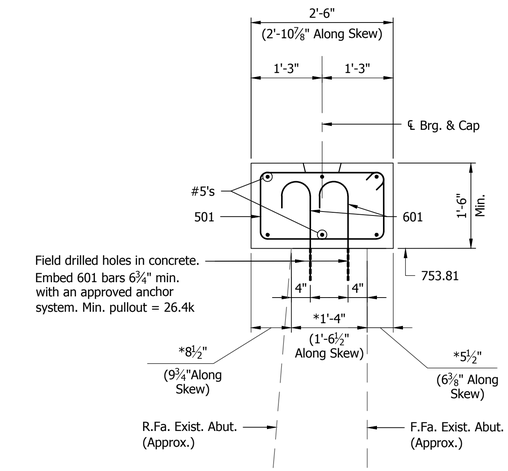


ABUTMENT NO. 1 PLAN

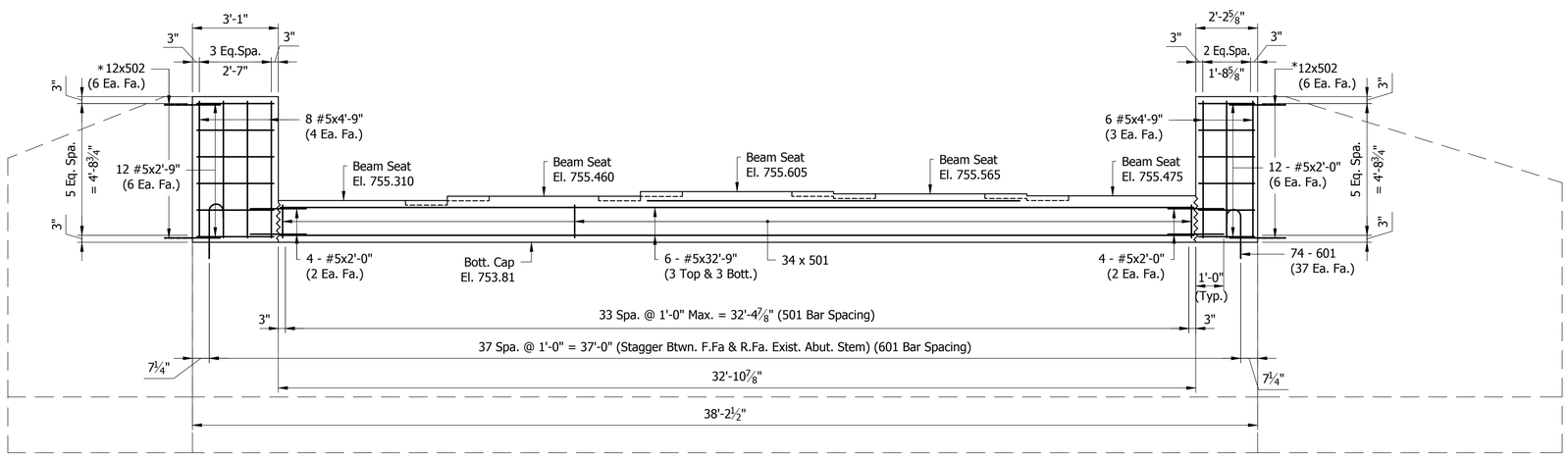
Scale: 3/8" = 1'-0"



SECTION THRU CAP

Scale: 3/4 = 1'-0"

* Dimensions may vary. Verify thickness of abutment stem and span between abutment faces prior to ordering beams or beginning superstructure removal.



ABUTMENT NO. 1 ELEVATION

Scale: 3/8" = 1'-0"

MICHAEL W. PETERSON
REGISTERED
No. 890025
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 06/12/2023 DATE

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TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

ABUTMENT NO. 1 DETAILS

SCALE	BRIDGE FILE
AS NOTED	79-00007
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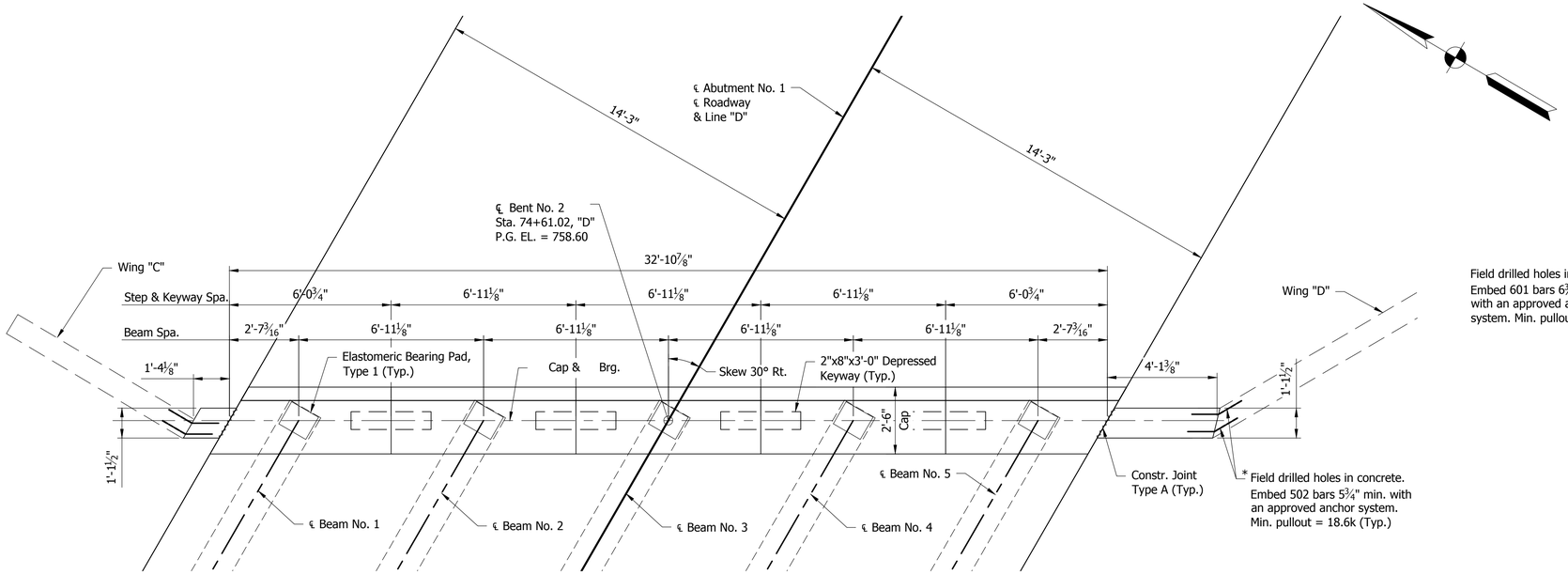
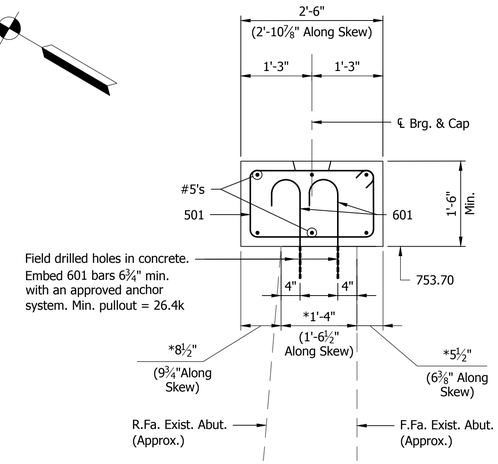


ABUTMENT NO. 2 PLAN

Scale: 3/8" = 1'-0"



SECTION THRU CAP

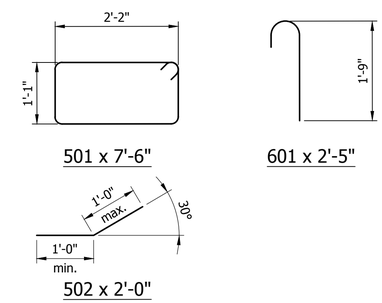
Scale: 3/4 = 1'-0"

BILL OF MATERIALS
ABUTMENTS No. 1 & 2 (TOTAL)

REINFORCING BARS EPOXY COATED			
Size & Mark	No. of Bars	Length	Weight (Lbs.)
601	148	2'-5"	
TOTAL #6 EPOXY COATED REINFORCING			537
501	68	7'-6"	
502	48	2'-0"	
#5	6	32'-9"	
#5	6	33'-3"	
#5	28	4'-9"	
#5	12	3'-9"	
#5	12	2'-9"	
#5	28	2'-0"	
#5	12	1'-0"	
TOTAL #5 EPOXY COATED REINFORCING			1,336
TOTAL EPOXY COATED REINFORCING BARS			1,873

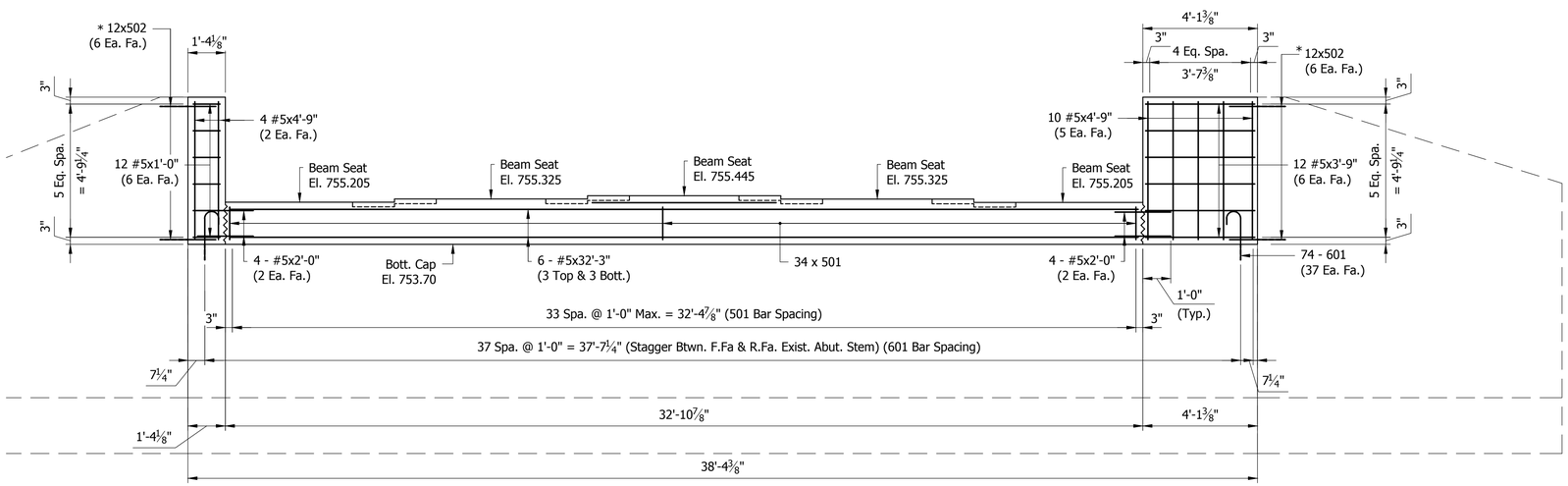
CONCRETE	
CONCRETE, C, SUBSTRUCTURE	
ABUTMENT No. 1	7.1 CYS.
ABUTMENT No. 2	7.3 CYS.
TOTAL CONCRETE, C, SUBSTRUCTURE	14.4 CYS.

MISCELLANEOUS	QTY.
FIELD DRILLED HOLES IN CONCRETE	148 EACH
SURFACE SEAL (EXIST. ABUTS. & WINGS)	900 SFT
AGGREGATE FOR END BENT BACKFILL	22 CYS
GEOTEXTILE FOR RIPRAP, TYPE 1A	48 SYS
PIPE, END BENT DRAIN, 6 IN.	74 LFT
PATCHING CONCRETE STRUCTURE	200 SFT



BAR BENDING DIAGRAMS

Scale: 3/4 = 1'-0"



ABUTMENT NO. 2 ELEVATION

Scale: 3/8" = 1'-0"

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TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

ABUTMENT NO. 2 DETAILS

SCALE	BRIDGE FILE
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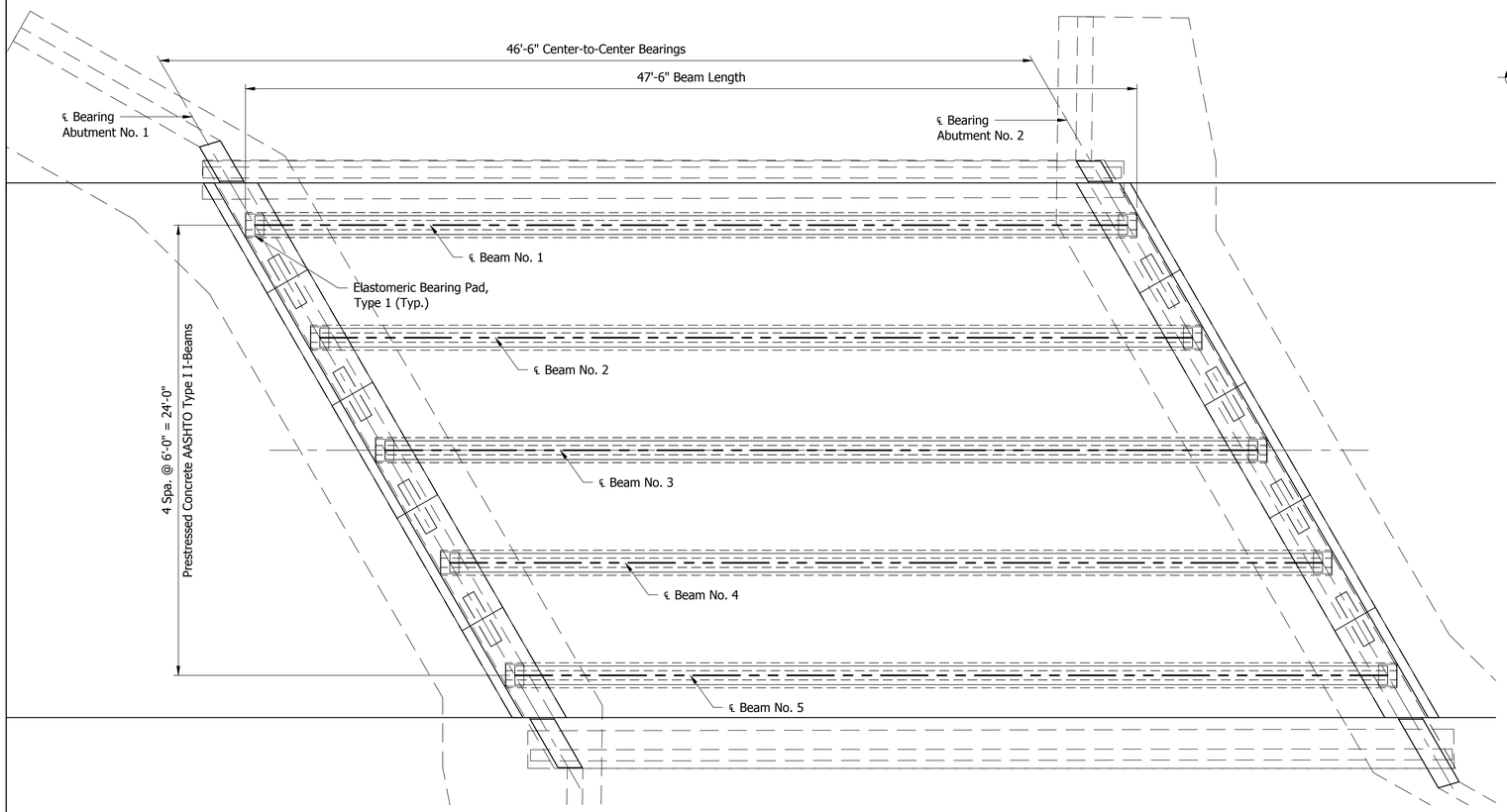


FRAMING PLAN

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

DESIGN DATA

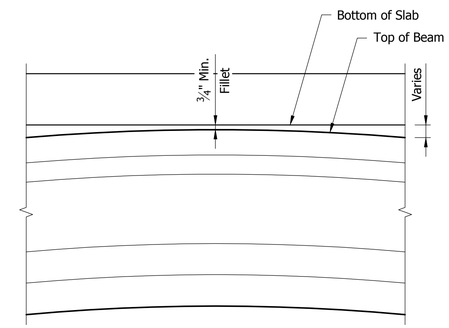
PRESTRESSED CONCRETE NORMAL WEIGHT:
- f'c = 6,000 psi @ 28 days
- Initial f'c = 5,000 psi @ Release of Strands

PRESTRESSING STRANDS:
- 0.5"Ø, Uncoated, Lo-Lax, Seven Wire Strand (As = 0.154 in²)
- Min. Tensile Strength = 270,000 psi
- Initial Pull = 33.82 Kips per strand

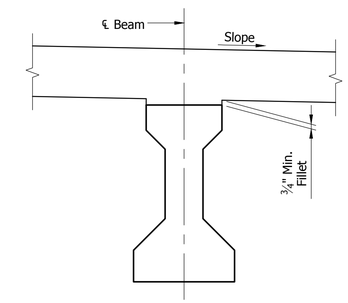
REINFORCING STEEL:
- Grade 60: Fy = 60,000 psi

GENERAL NOTES - BEAMS

1. Beams shall be cast a minimum 28 days prior to pouring the deck.
2. Beams are to be lifted and supported at the bearing points during handling, storage and transportation.
3. Estimated elastic shortening is 0.182 in.
4. Allowance in beam length should be made during fabrication.
5. For Fabrication Tolerances of Prestressed Beams, see Standard Drawings E707-BPBF-01 thru -04.
6. For Reinforcing Bar Notes, see Standard Drawing E703-BRST-01.
7. Reinforcing Bars designated "E" shall be epoxy coated.
8. Top of beams shall be scored transversely at about 3" on center with a pointed tool.
9. See INDOT standard specifications 707.08 for handling and shipping of precast prestressed concrete beam.
10. See Sheet 12 for Additional Beam and Bearing Details.



ELEVATION ALONG BEAM



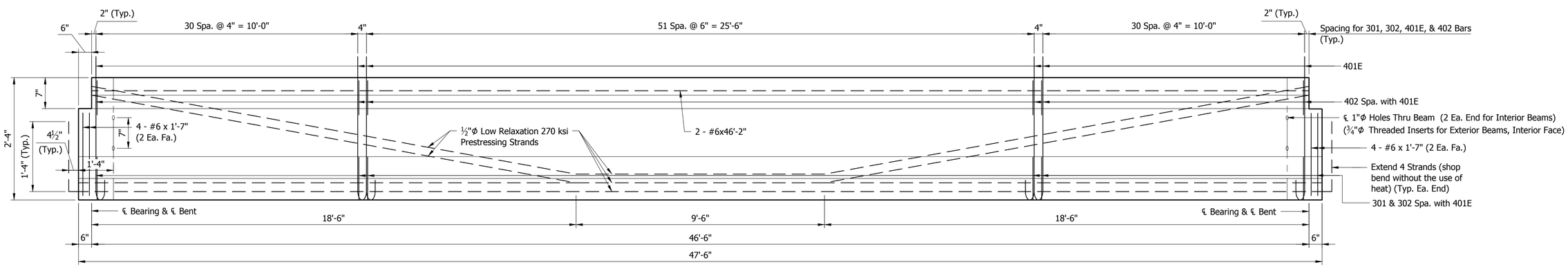
SECTION @ MIDSPAN

TABLE OF CAMBERS AT MIDSPAN (in.)	
Initial Camber	+1.68
Dead Load Deflection	-0.632
Residual Camber	+1.048

- Denotes Downward Deflection
+ Denotes Upward Camber

FILLET DETAIL

Not To Scale



BEAM ELEVATION

Horizontal Scale: 1/2" = 1'-0"
Vertical Scale: 1" = 1'-0"

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HIGHWAY DEPARTMENT

FRAMING PLAN & BEAM DETAILS

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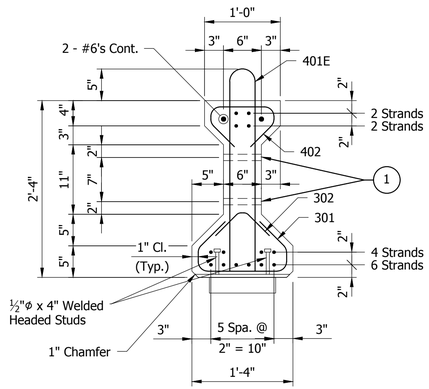
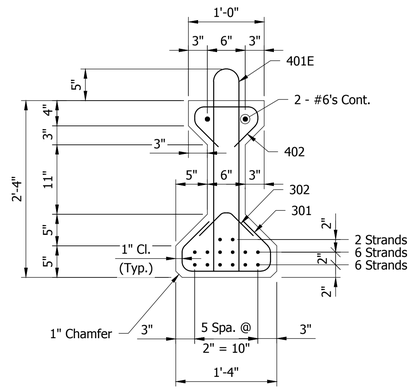
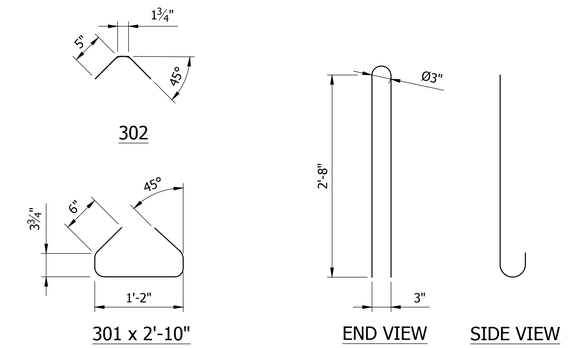


END BEAM SECTION
Scale: 1" = 1'-0"

1 Interior Beams:
1"Ø Holes for #6E Bars
Exterior Beams, Inside Face:
¾"Ø Inserts for #6E Threaded Bars

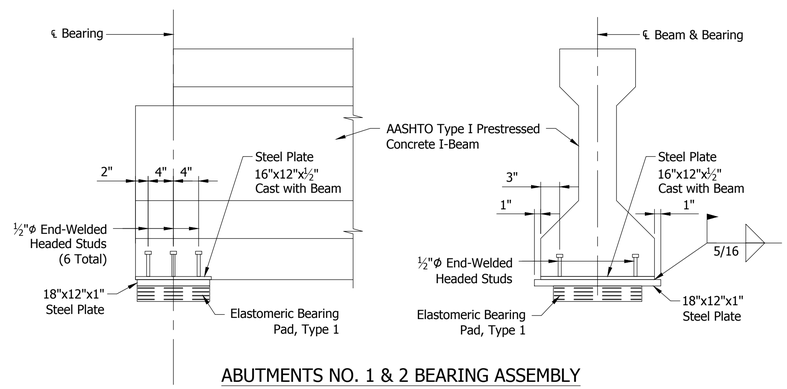


MID-SPAN BEAM SECTION
Scale: 1" = 1'-0"



Bars 301 & 302 combine to form one stirrup.

BAR BENDING DETAILS
Scale: 1" = 1'-0"



ABUTMENTS NO. 1 & 2 BEARING ASSEMBLY DETAILS
Scale: 1" = 1'-0"

NOTES

1. See Standard Drawing E-726-BEBP-01 For Elastomeric Bearing Pad, Type 1 Details.
2. Finished Bearing Surfaces Shall Be Clean and Free Of Loose Material Before Placing Bearing Pad.
3. Steel Bearing Assemblies, All Hardware and Anchor Bolt Shall Be A709 Grade 36 Hot Dipped Galvanized in Accordance With Requirements of A.S.T.M. A123 or A153.

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TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

BEAM DETAILS

SCALE	BRIDGE FILE
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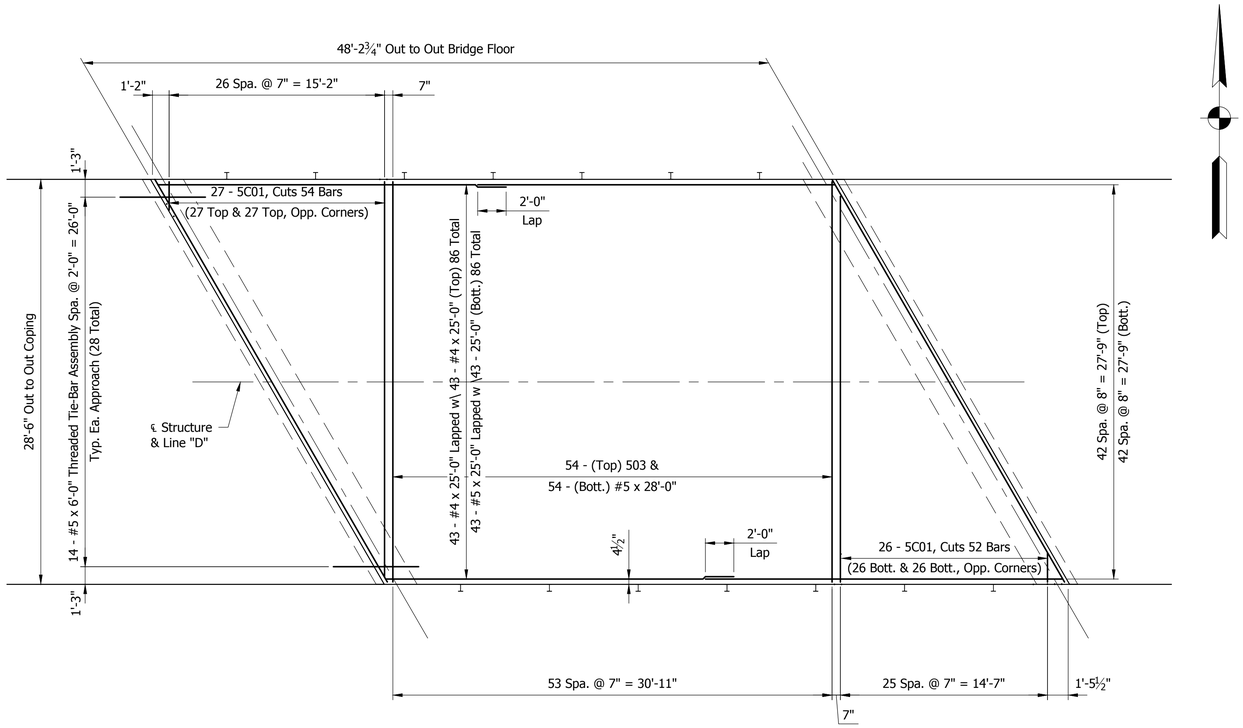
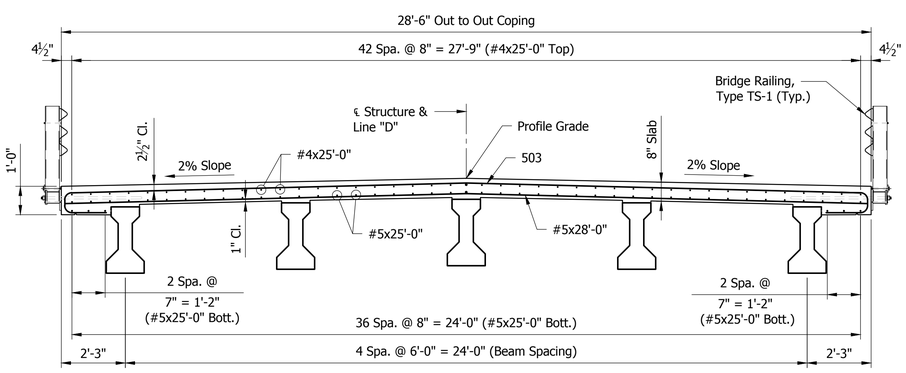


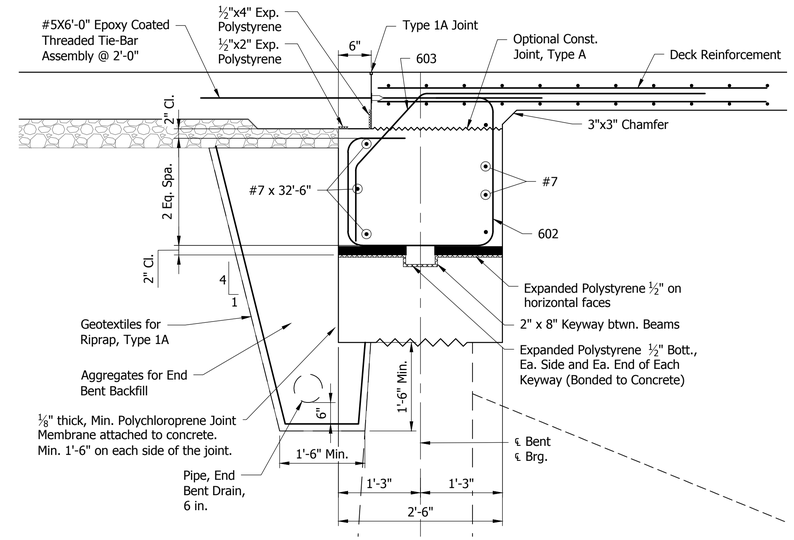
PLAN

Scale: 3/16" = 1'-0"



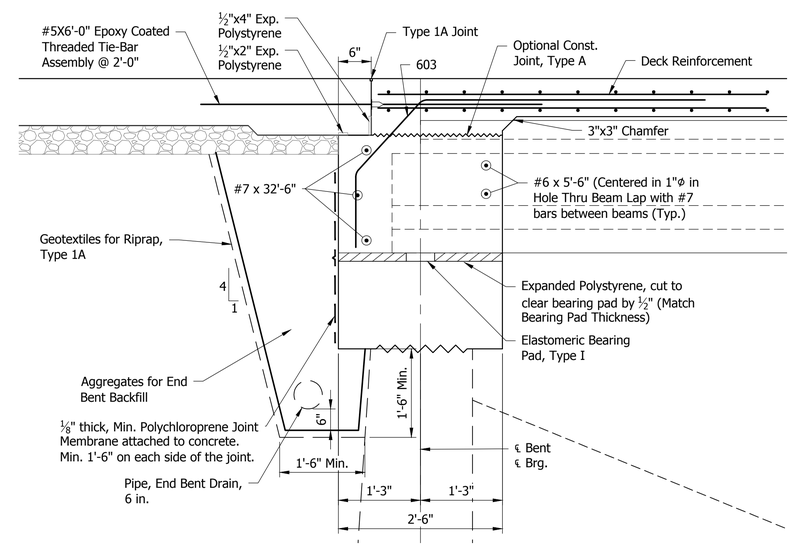
TYPICAL SECTION

Scale: 3/8" = 1'-0"



SECTION BETWEEN BEAMS

Scale: 3/4" = 1'-0"



SECTION AT BEAMS

Scale: 3/4" = 1'-0"

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MICHAEL W. PETERSON REGISTERED No. 890025 STATE OF INDIANA PROFESSIONAL ENGINEER

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TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

SUPERSTRUCTURE DETAILS

SCALE	BRIDGE FILE
AS NOTED	79-00007
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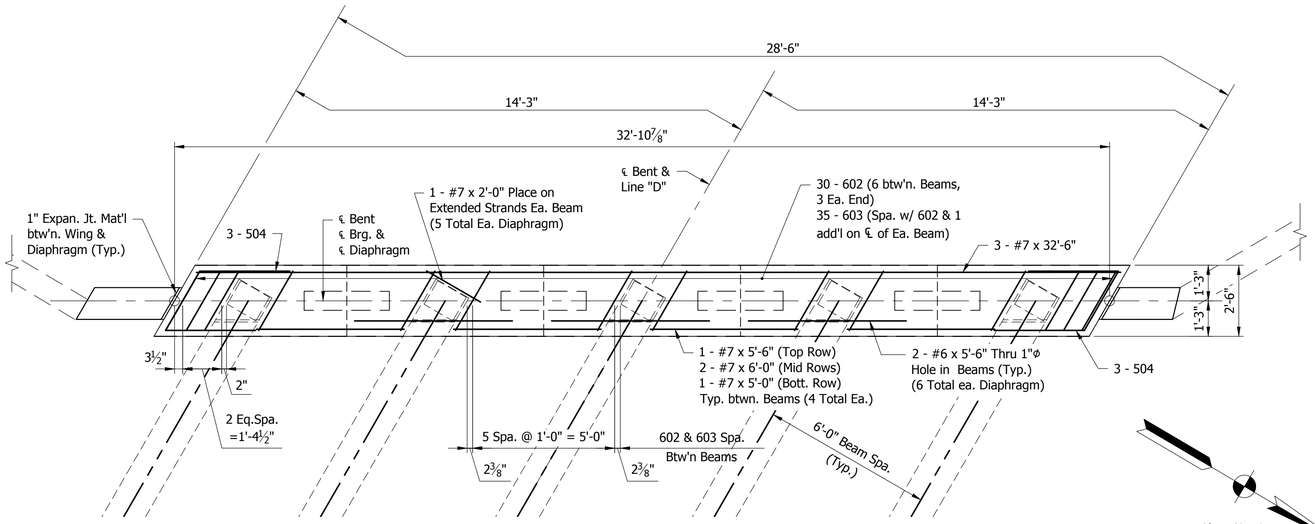
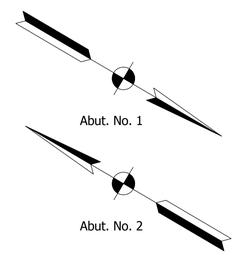
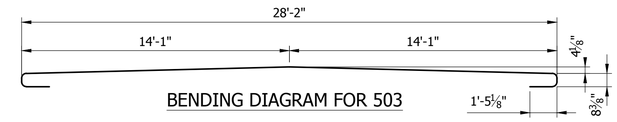


END DIAPHRAGM PLAN

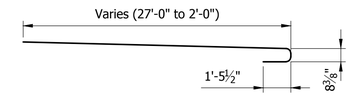
Scale: 3/8" = 1'-0"

(Abut. No.1 Shown, Abut. No.2 Similar)

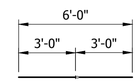




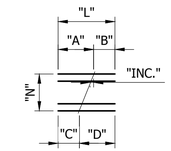
BENDING DIAGRAM FOR 503



BENDING DIAGRAM FOR 5C01

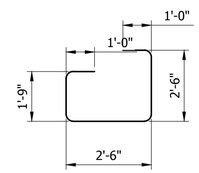


#5 THREADED TIE-BAR ASSEMBLY

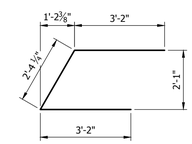


CUTTING DIAGRAM

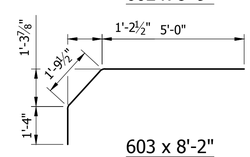
CUTTING DIAGRAM TABLE							
MARK	"N"	"A"	"B"	"C"	"D"	"INC"	"L"
5C01	60	29'-1"	4'-1"	4'-1"	29'-1"	8 1/4"	33'-2"



602 x 8'-9"



504 x 9'-6"



603 x 8'-2"

BILL OF MATERIALS
SUPERSTRUCTURE SLAB

REINFORCING BARS EPOXY COATED			
Size & Mark	No. of Bars	Length	Weight (Lbs.)
#7	6	32'-6"	
#7	16	6'-0"	
#7	8	5'-6"	
#7	8	5'-0"	
#7	10	2'-0"	
TOTAL #7 EPOXY COATED REINFORCING			807
602	60	8'-9"	
603	70	8'-2"	
#6	12	5'-6"	
TOTAL #6 EPOXY COATED REINFORCING			1,746
5C01	60	33'-2"	
503	64	32'-6"	
504	12	9'-6"	
#5	128	28'-0"	
#5	86	25'-0"	
TOTAL #5 EPOXY COATED REINFORCING			10,344
#4	86	25'-0"	
TOTAL #4 EPOXY COATED REINFORCING			1,436
TOTAL EPOXY COATED REINFORCING BARS			14,333
CONCRETE			
CONCRETE, C, SUPERSTRUCTURE			105.7 CYS
MISCELLANEOUS			QTY.
SURFACE SEAL (Estimated)			0 SFT
THREADED TIE BAR ASSEMBLY, EPOXY COATED			28

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SUPERSTRUCTURE DETAILS

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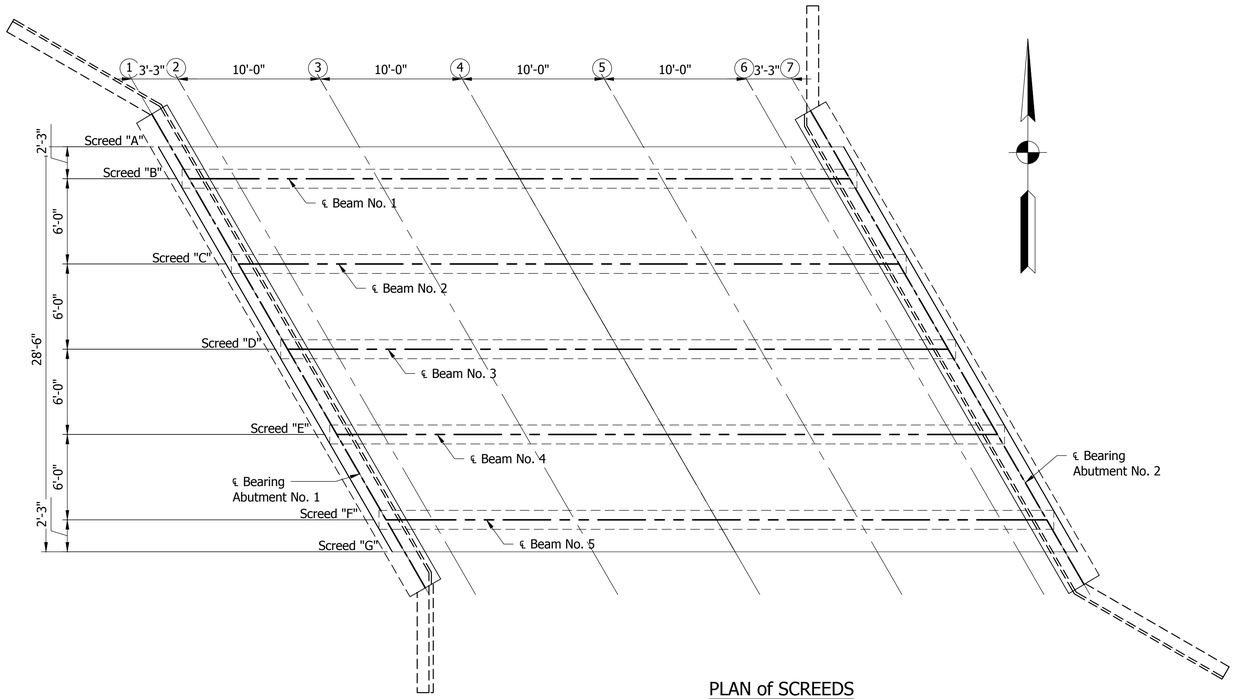
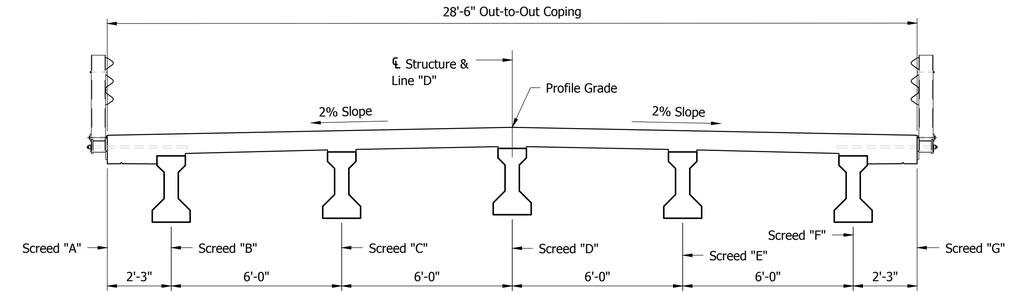


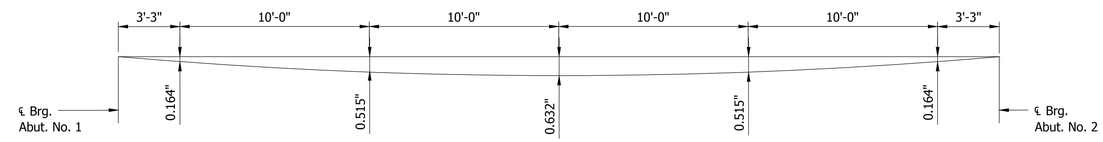
PLAN of SCREEDS

Scale: 3/16" = 1'-0"



TYPICAL SECTION

Scale: 3/8" = 1'-0"



CONCRETE DEAD LOAD DEFLECTION DIAGRAM

Scale: Not to Scale

TABLE OF SCREED ELEVATIONS

	LOCATION	1	2	3	4	5	6	7
A	Top of Coping Form	758.475	758.460	758.420	758.390	758.355	758.330	758.315
	Top of Exterior Beam							
	Top of Beam to Top of Coping							
B	Top of Screed	758.520	758.505	758.465	758.435	758.400	758.375	758.360
	Top of Exterior Beam							
	Top of Beam to Top of Screed							
C	Top of Screed	758.640	758.625	758.585	758.550	758.525	758.495	758.480
	Top of Exterior Beam							
	Top of Beam to Top of Screed							
D (P.G.)	Top of Screed	758.760	758.745	758.705	758.670	758.645	758.615	758.600
	Top of Interior Beam							
	Top of Beam to Top of Screed							
E	Top of Screed	758.640	758.625	758.585	758.550	758.525	758.495	758.480
	Top of Interior Beam							
	Top of Beam to Top of Screed							
F	Top of Screed	758.520	758.505	758.465	758.435	758.400	758.375	758.360
	Top of Interior Beam							
	Top of Beam to Top of Screed							
G	Top of Screed	758.475	758.460	758.420	758.390	758.355	758.330	758.315
	Top of Interior Beam							
	Top of Beam to Top of Screed							

Procedure and Notes:

1. After beams are set, take elevations at all screed points on top of beams. Enter these elevations in the table. Subtract these elevations from the tabulated elevations and use the resulting dimensions as the height for setting screed forms above thes points. These dimensions remain constant regardless of how much or in what order the concrete is poured.
2. Do not set screed forms by leveling.
3. No concrete in the floor slab shall be poured until the above operations are completed.
4. Screed Elevation as shown in the table include an allowance for concrete dead load deflections.

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SCREEDS

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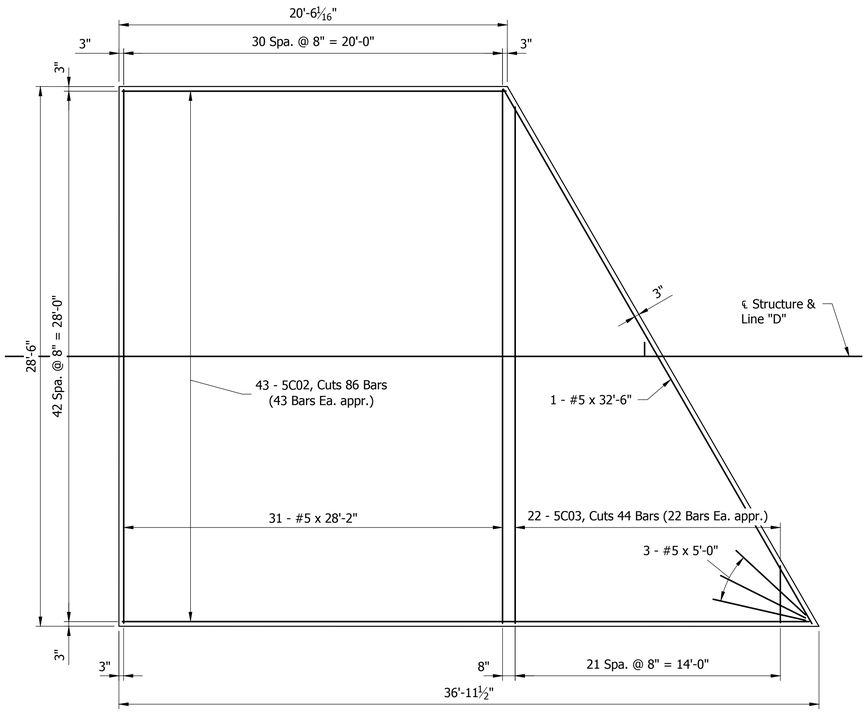
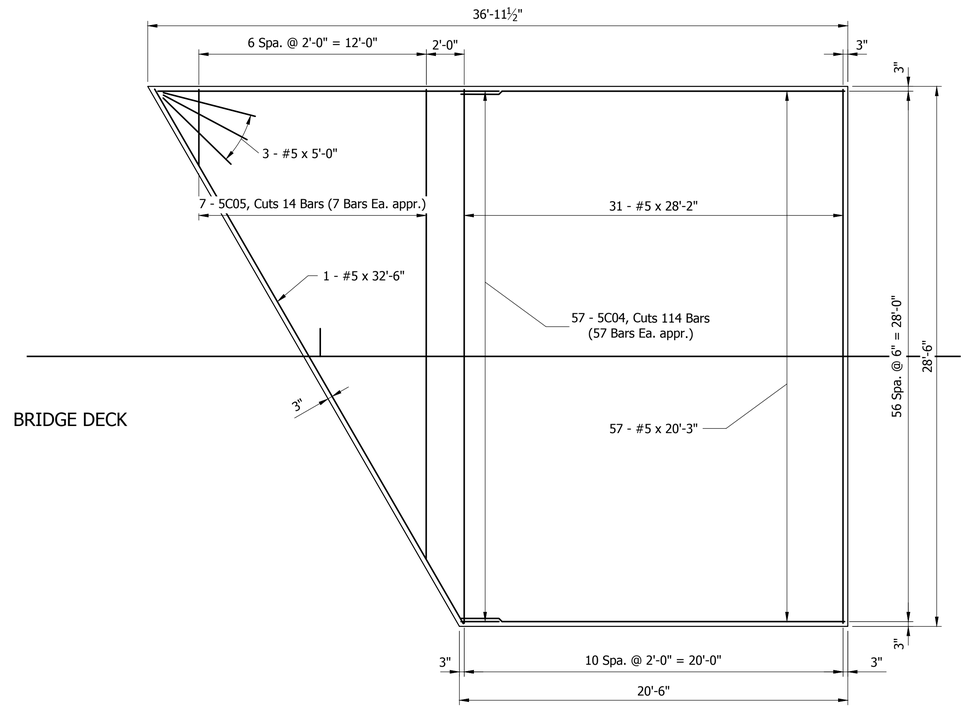


PLAN SHOWING TOP REINFORCING



PLAN SHOWING BOTTOM REINFORCING

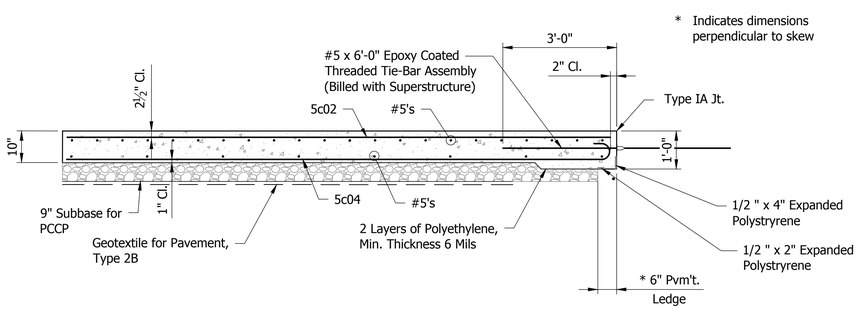
BRIDGE APPROACH PLAN

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

BILL OF MATERIALS
APPROACH SLABS (Total)

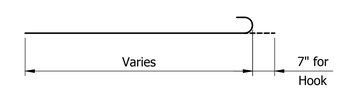
REINFORCING BARS EPOXY COATED			
Size & Mark	No. of Bars	Length	Weight (Lbs.)
5c01	43	56'-6"	
5c02	22	30'-3"	
5c03	57	21'-4"	
5c04	7	28'-9"	
#5	4	32'-6"	
#5	62	28'-2"	
#5	44	26'-3"	
#5	57	20'-3"	
#5	12	5'-0"	
TOTAL #5 EPOXY COATED REINFORCING			9,135
TOTAL EPOXY COATED REINFORCING BARS			9,135
CONCRETE			
REINFORCED CONCRETE BRIDGE APPROACH, 10" (2 @ 91 sys)			182 SYS
MISCELLANEOUS			QTY.
SUBBASE FOR PCCP (2 @ 23 CYS)			46 CYS
GEOTEXTILE FOR PAVEMENT, TYPE 2B			182 SYS

CUTTING DIAGRAM TABLE								
MARK	"N"	"A"	"B"	"C"	"D"	"INC"	"L"
5C02	43	36'-3"	20'-3"	20'-3"	36'-3"	8"	56'-6"
5C03	22	27'-3"	3'-0"	3'-0"	27'-3"	8"	30'-3"
5C04	57	18'-9"	2'-7"	2'-7"	7	6"	21'-4"
5C05	7	24'-9"	4'-0"	4'-0"	24'-9"	2'-0"	28'-9"

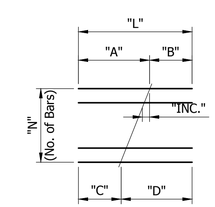


LONGITUDINAL APPROACH SECTION

Scale: 1/2" = 1'-0"



5c02 & 5c04 Bending Diagram



CUTTING DIAGRAM

MICHAEL W. PETERSON REGISTERED No. 890025 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — DATE 06/12/2023

DESIGNED: MAH | DRAWN: MAH

CHECKED: MWP | CHECKED: MWP

TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

APPROACH SLAB DETAILS

SCALE	BRIDGE FILE
AS NOTED	79-00007
	DESIGNATION
	SHEET
	16 of 24
CONTRACT	PROJECT

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SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE CLASS "C" SUPERSTR.	CONCRETE CLASS "C" SUBSTR.	CONCRETE CLASS "A" SUBSTR.	CONCRETE RAILING, TYPE C	REINFORCING BARS	REINFORCING BARS, EPOXY COATED	THREADED TIE BAR ASSEMBLY, EPOXY COATED	THREADED TIE BAR ASSEMBLY	RAILING, STEEL TS-1	CONCETE BRIDGE RAILING TRANSITION TBC	REINFORCED CONCRETE BRIDGE APPROACH (10 IN)	SUBBASE FOR PCCP	AGGREGATE FOR END BENT BACKFILL	GEOTEXTILES	PILES STEEL H, HP12 x 53	PILES PILE SHOE, HP12 x 53	PILES STEEL PIPE, 0.375 IN., 14IN.	PILES CONICAL PILE TIP, 14IN	STRUCTURAL MEMBERS CONCRETE, I-BEAM, 28 IN x 12 IN	STRUCTURAL MEMBERS CONCRETE, I-BEAM, 45 IN x 16 IN	PATCHING CONCRETE STRUCTURES	** STRUCTURAL STEEL	FIELD DRILLED HOLE IN CONCRETE	RIPRAP, CLASS __	GEOTEXTILE FOR RIPRAP, TYPE IA	GEOTEXTILE FOR PAVEMENT, TYPE 2B	EXCAVATION FOUNDATION, UNCLASSIFIED	SURFACE SEAL (EST'D)
	CYS	CYS	CYS	CYS	LBS	LBS	EACH	EACH	LFT	EACH	SYS	CYS	CYS	SYS	LFT	EACH	LFT	EACH	LFT	LFT		LBS	EACH	TON	SYS	SYS	CYS	SFT
Superstructure	105.7				14,333		28																					
Abutment No. 1 & No. 2		9.8			1,873								22								200		148		48			900
R.C. Bridge Approaches					9,135						182	46														182		
Bridge Railing Type TS-1									86																			
TOTAL	105.7	9.8			25,341		28		86		182	46	22								200		148		48	182		900

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION STATION	LOCATION STATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE COMPACTED AGGREGATE	SURFACE BEYOND R/W LINE HMA	SURFACE BEYOND R/W LINE PCCP	GRADE 1	GRADE 2	EXCAVATION CUT	EXCAVATION FILL	HMA FOR APPROCHES, TYPE B SURFACE 9.5mm (LBS FOR SYD)	HMA FOR APPROCHES, TYPE B INTERMED 19.0mm (LBS FOR SYD)	HMA FOR APPROCHES, TYPE B BASE TYPE __ (LBS FOR SYD)	HMA FOR ROADS 3,64, SURFACE, 9.5mm (LBS FOR SYD)	HMA FOR ROADS 3, 64, INTERM, 19.0mm (LBS FOR SYD)	HMA FOR ROADS 3,64 BASE 19.0 mm (LBS FOR SYD)	HMA WIDENING INTERMD TYPE B (LBS FOR SYD)	HMA WIDENING BASE TYPE B (LBS FOR SYD)	HMA WIDENING (LBS FOR SYD)	LIQUID ASPHALT SEALANT	ASPHALT MATERIAL FOR JOINT ADHESIVE, SURFACE	ASPHALT MATERIAL FOR JOINT ADHESIVE INTERMEDIATE	ASPHALT MATERIAL FOR TACK COAT	COMPACTED AGGREGATE FOR BASE NO. 53 DEPTH 3 IN	COMPACTED AGGREGATE FOR BASE NO. 53 DEPTH 10 IN	COMPACTED AGGREGATE FOR NO. 53 DEPTH 10 IN	COMPACTED AGGREGATE FOR NO. 53 DEPTH	SUBGRADE TREATMENT 1C	MILLING, ASHALT, 1 1/2"	MILLING, ASHALT, 4"	REMARKS
			FT	FT	FT	FT	SYS	SYS	SYS	%	%	CYS	CYS	TON	TON	TON	TON	TON	TON	TON	TON	TON	LFT	LFT	LFT	SYS	TON	TON	TON	TON	SYS	SYS	SYS	
72+00	73+85													35	11								185	185	35	492		47				333	78	
74+91	76+75													34	3								184	184	9	432		47				389	20	
TOTALS														69	14								369	369	44	924		94				722	98	

GUARDRAIL SUMMARY TABLE

LOCATION FROM STATION	LOCATION TO STATION	LEFT	MEDIAN LEFT	MEDIAN RIGHT	RIGHT	MGS W-BEAM GUARDRAIL LENGTH STANDARD POST SPACING, 6'-3"	STANDARD POST SPACING, 3'-1 1/2"	STANDARD POST SPACING, 1'-6 3/4"	DOUBLE FACED POST SPACING, 6'-3"	SHOP CURVED POST SPACING, 6'-3"	LONG SPAN, TYPE 1	LONG SPAN, TYPE 2	GUARDRAIL FLARE RATE	GUARDRAIL MGS HEIGHT TRANSITION	GUARDRAIL TRANSITION TGS-1	GUARDRAIL TRANSITION WITHOUT CURB	GUARDRAIL END TREATMENT TYPE"OS" (31')		CURVED W-BEAM GUARDRAIL SYSTEM TERMINAL SYSTEM	CURVED W-BEAM GUARDRAIL SYSTEM CONNECTOR SYSTEM			GUARDRAIL REMOVE	GUARDRAIL RESET	IMPACT ATTENUATOR TYPE ___	IMPACT ATTENUATOR TYPE ___	REMARKS
						LFT	LFT	LFT	LFT	LFT	EACH	EACH		EACH	EACH	EACH	EACH		TYPE	EACH	TYPE	EACH	LFT	LFT	EACH	EACH	
72+75	74+25				X	81.25									1		1											
72+83	74+08	X				56.25									1		1											
74+51	76+01	X				81.25									1		1											
74+68	75+93				X	56.25									1		1											
TOTALS						275									4		4											

MICHAEL W. PETERSON REGISTERED No. 890025 STATE OF INDIANA PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL — DESIGN ENGINEER — 06/12/2023 DATE

DESIGNED: FL DRAWN: JRT

CHECKED: MWP CHECKED: MWP

TIPPECANOE COUNTY HIGHWAY DEPARTMENT

BRIDGE SUMMARY

SCALE	BRIDGE FILE
N/A	79-00007
	DESIGNATION
	SHEET 17 of 24
CONTRACT	PROJECT

PRINT DATE: 6/16/23
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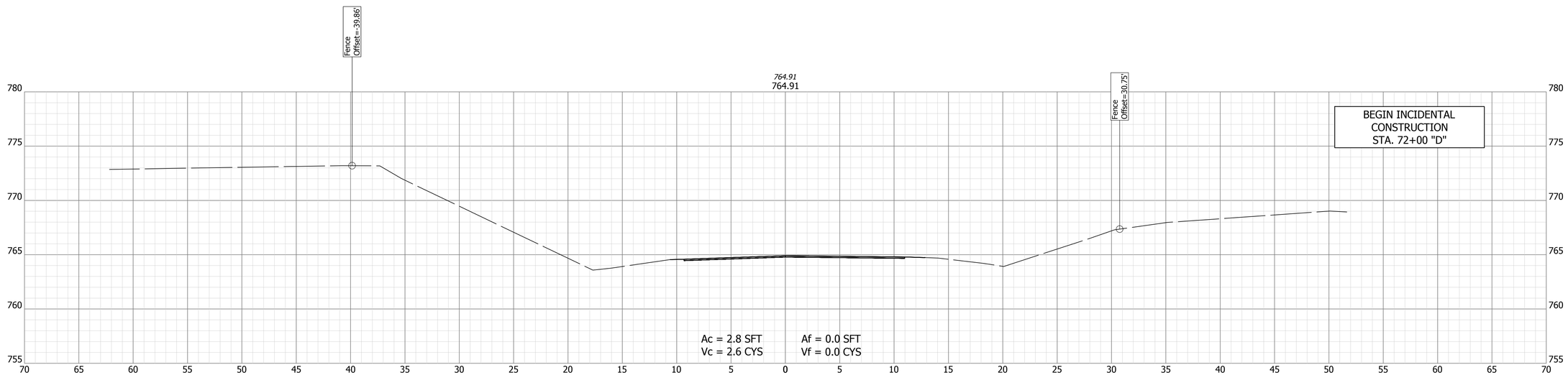

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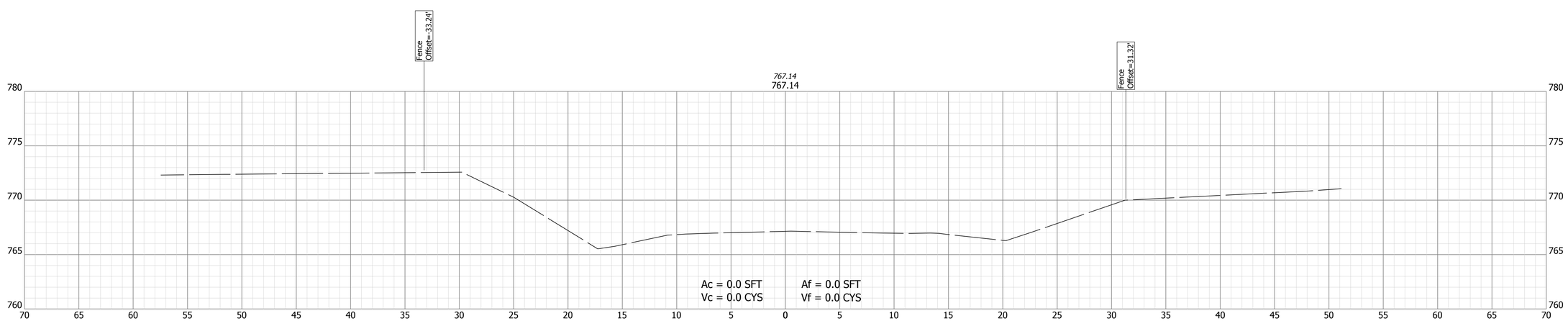

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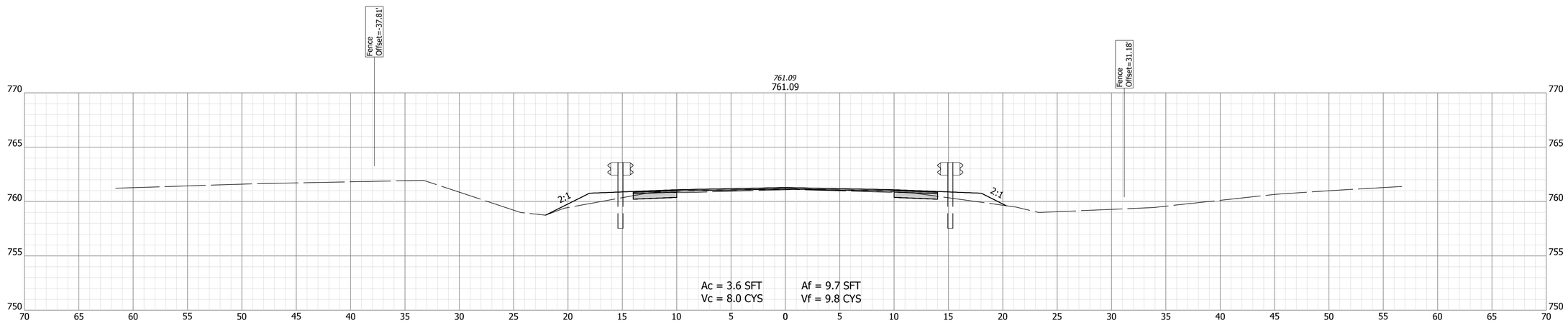
DESIGNED: MWP DRAWN: JRT
CHECKED: JRT CHECKED: MWP

TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

CROSS SECTIONS - LINE "D"

HORIZONTAL SCALE	BRIDGE FILE
1" = 5'	79-00007
VERTICAL SCALE	DESIGNATION
1" = 5'	
SURVEY BOOK	SHEET
	18 of 24
CONTRACT	PROJECT



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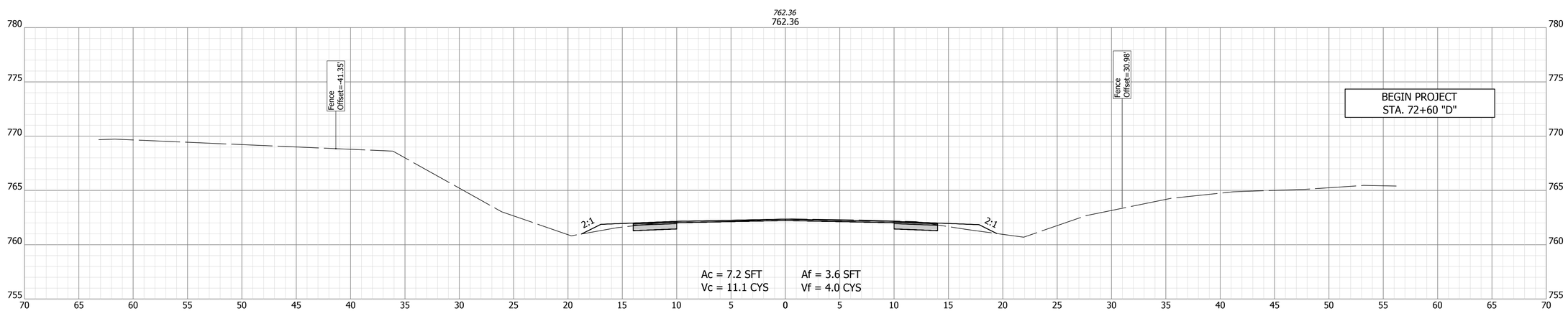

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TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

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	19 of 24
CONTRACT	PROJECT

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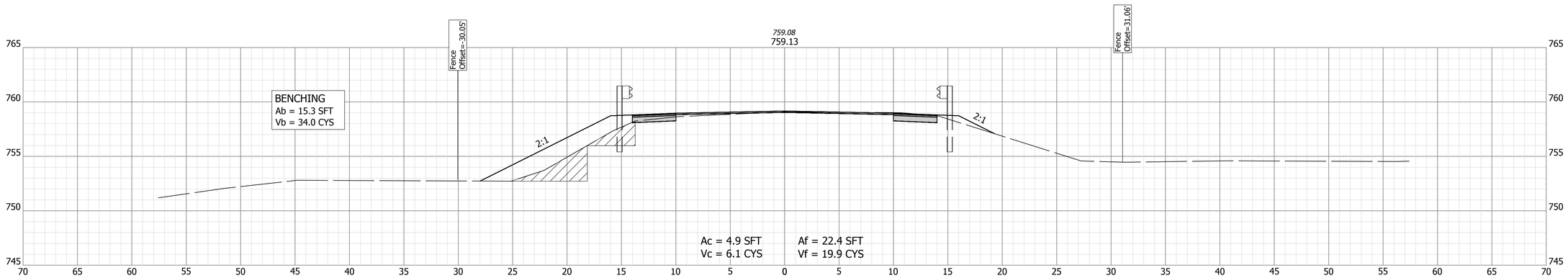

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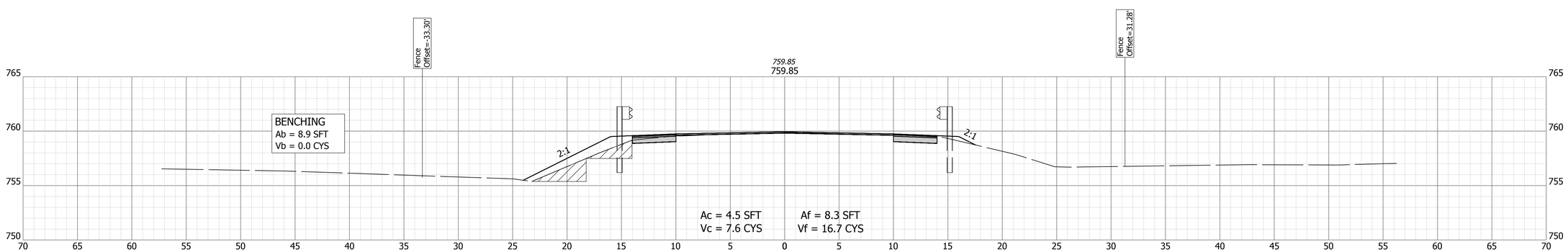

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TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

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	20 of 24
CONTRACT	PROJECT

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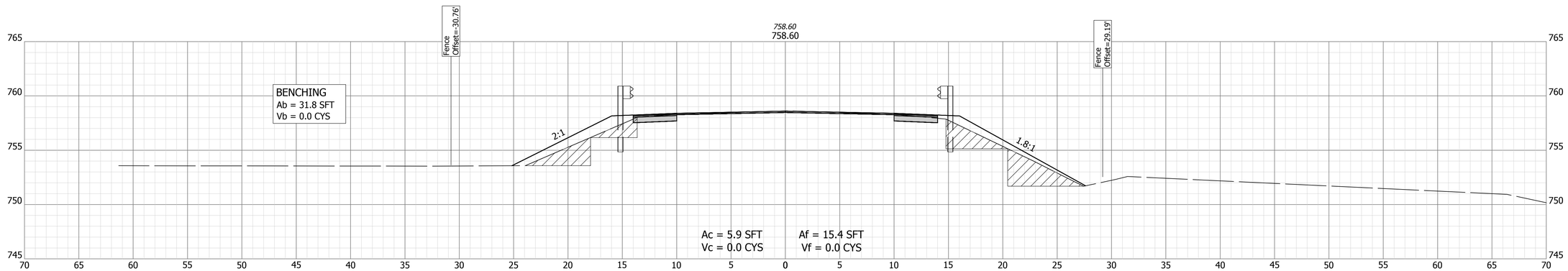

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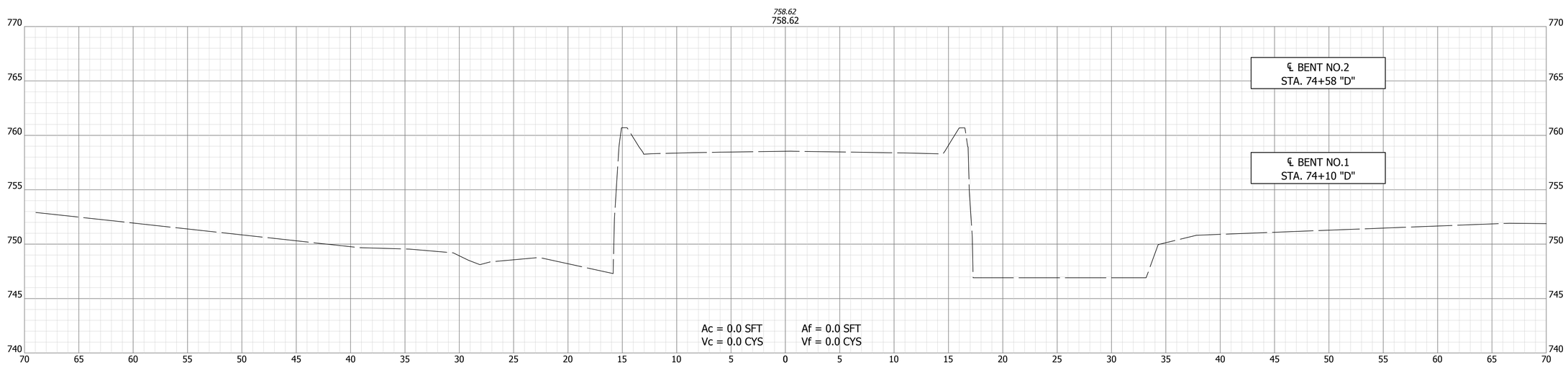

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TIPPECANOE COUNTY
HIGHWAY DEPARTMENT

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	21 of 24
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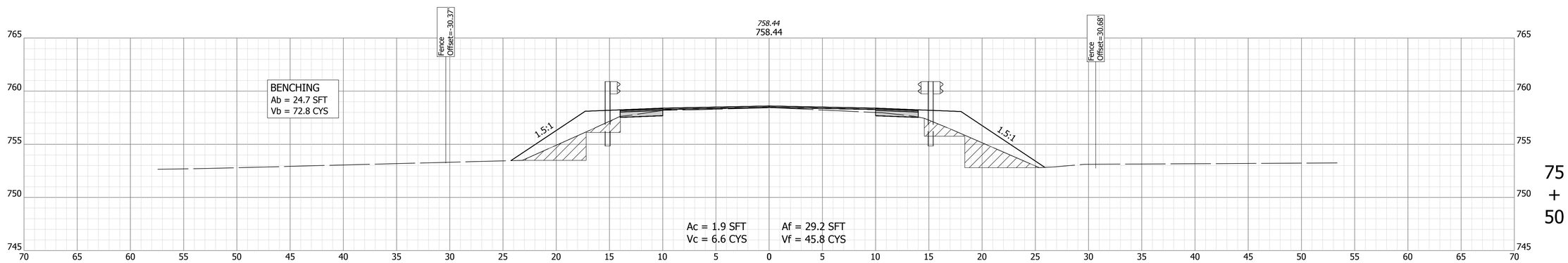

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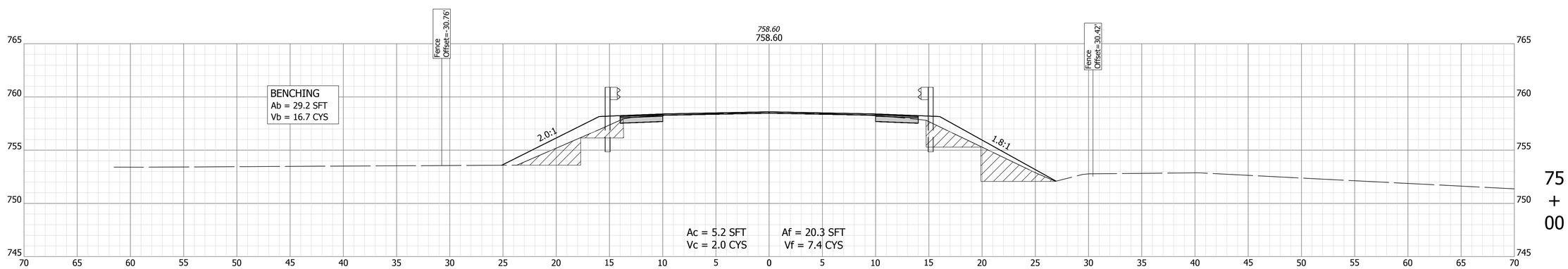

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TIPPECANOE COUNTY
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CROSS SECTIONS - LINE "D"

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VERTICAL SCALE	DESIGNATION
1" = 5'	
SURVEY BOOK	SHEET
	22 of 24
CONTRACT	PROJECT

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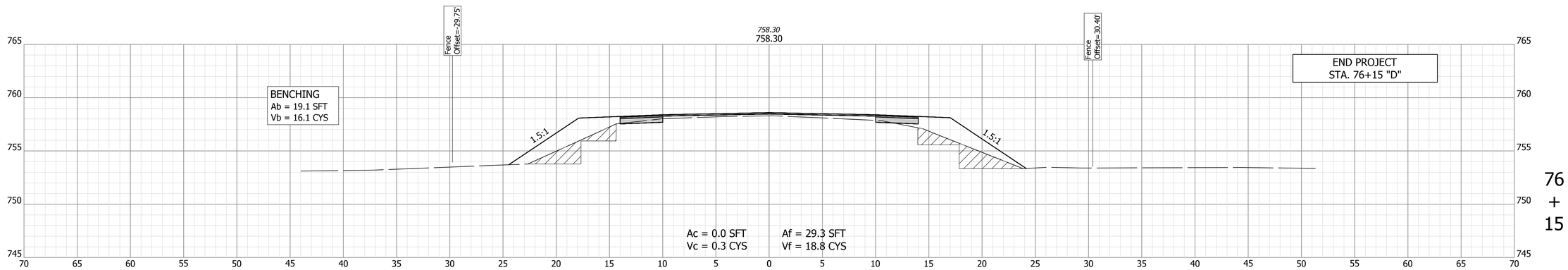

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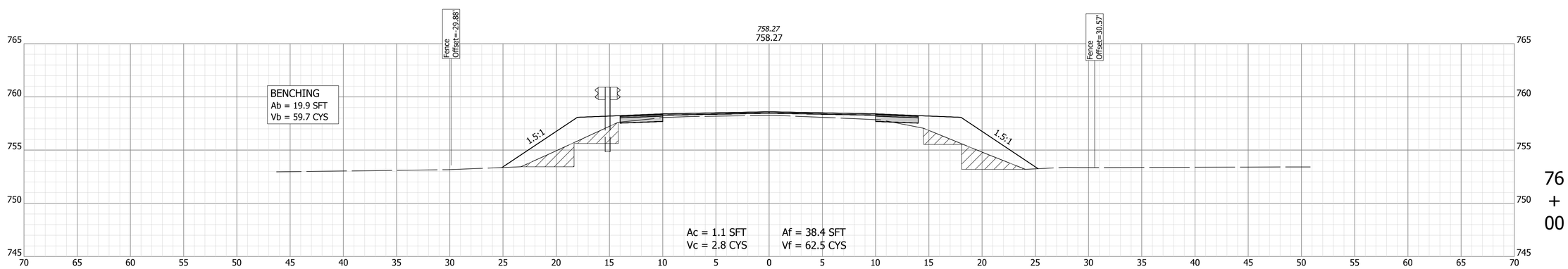

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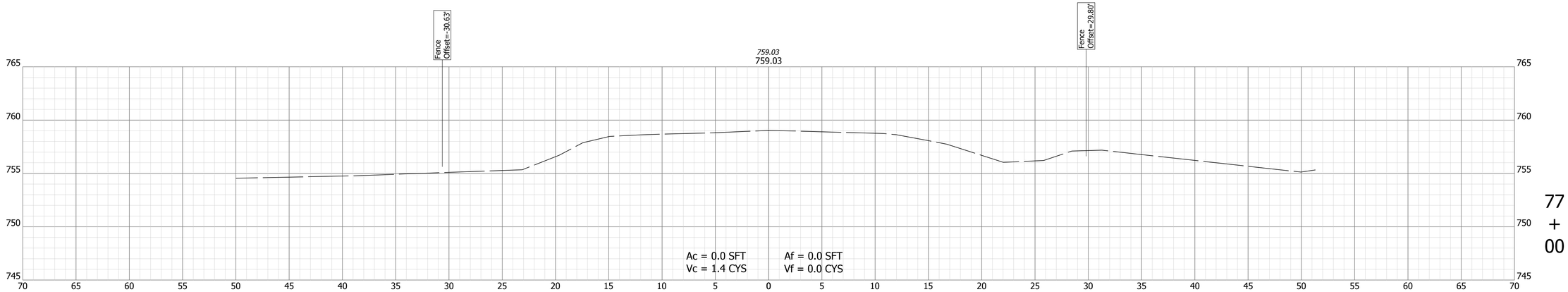
1" = 5'	
SURVEY BOOK	SHEET
	23 of 24
CONTRACT	PROJECT



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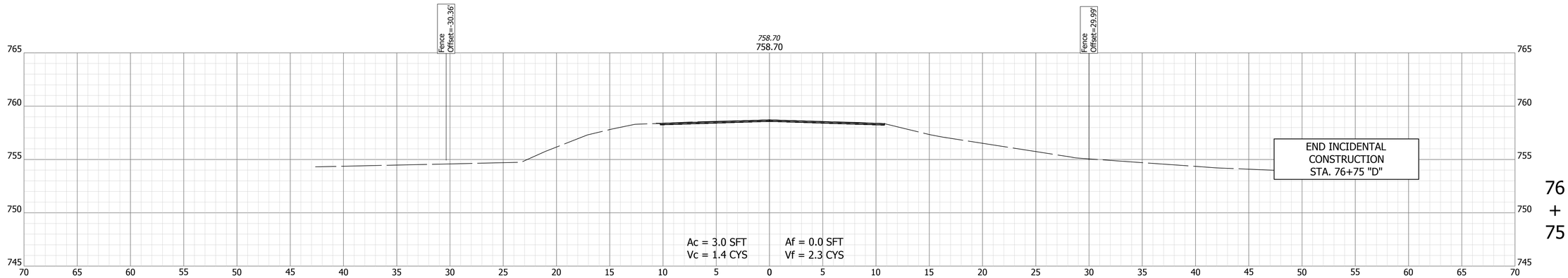

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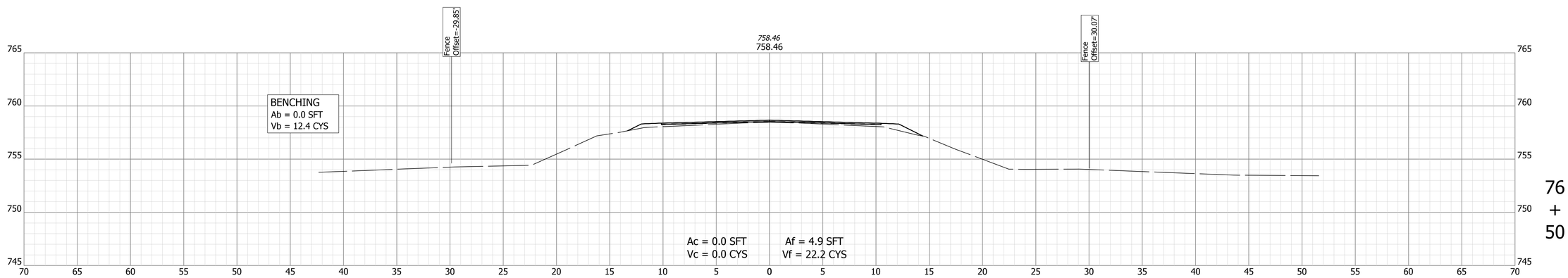

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1" = 5'	
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	24 of 24
CONTRACT	PROJECT