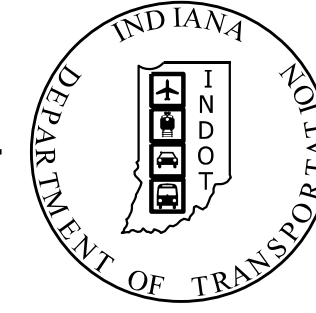


PROJECT	DESIGNATION
1702989	1702989
CONTRACT	
R-43059	

INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

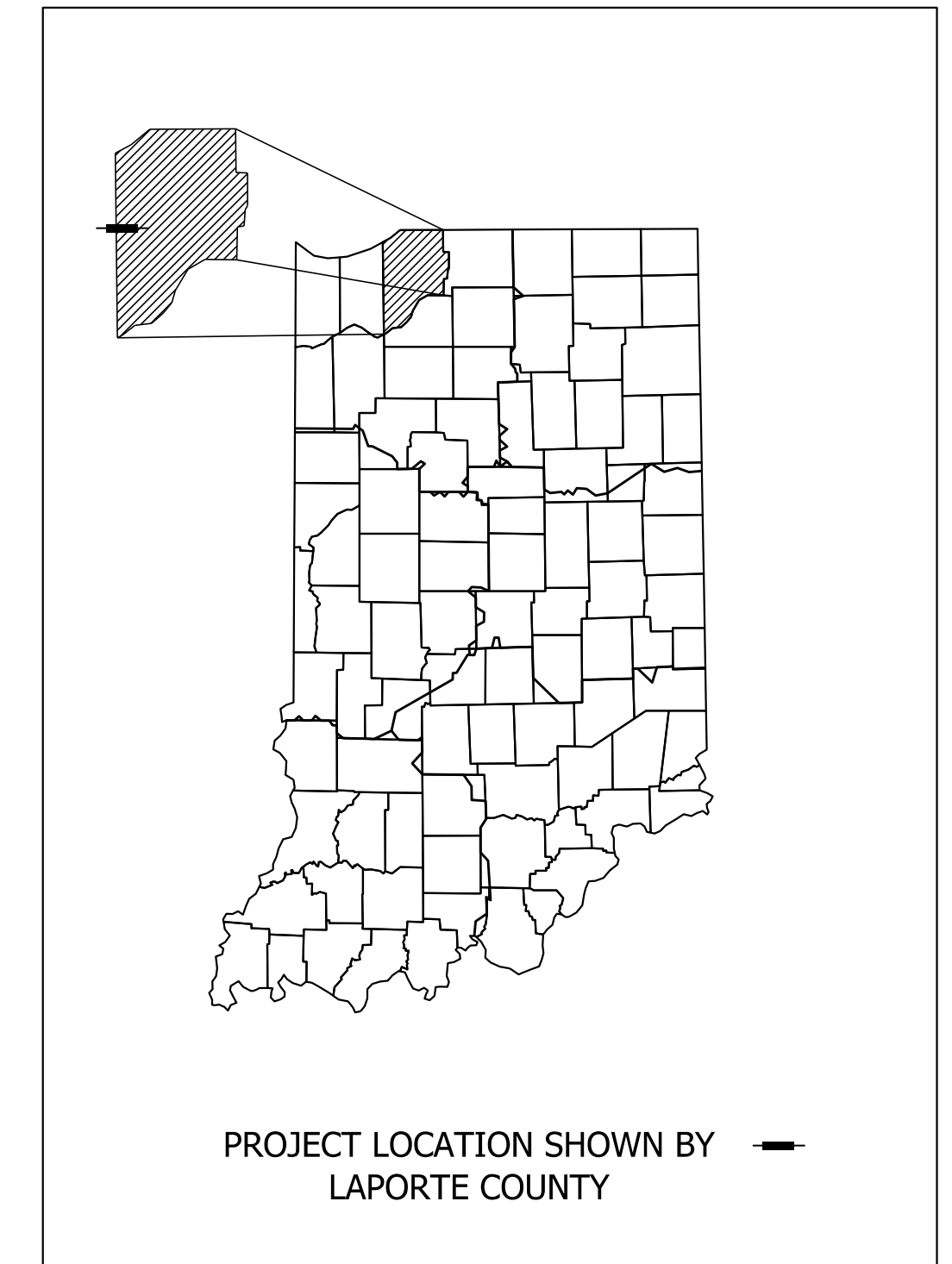
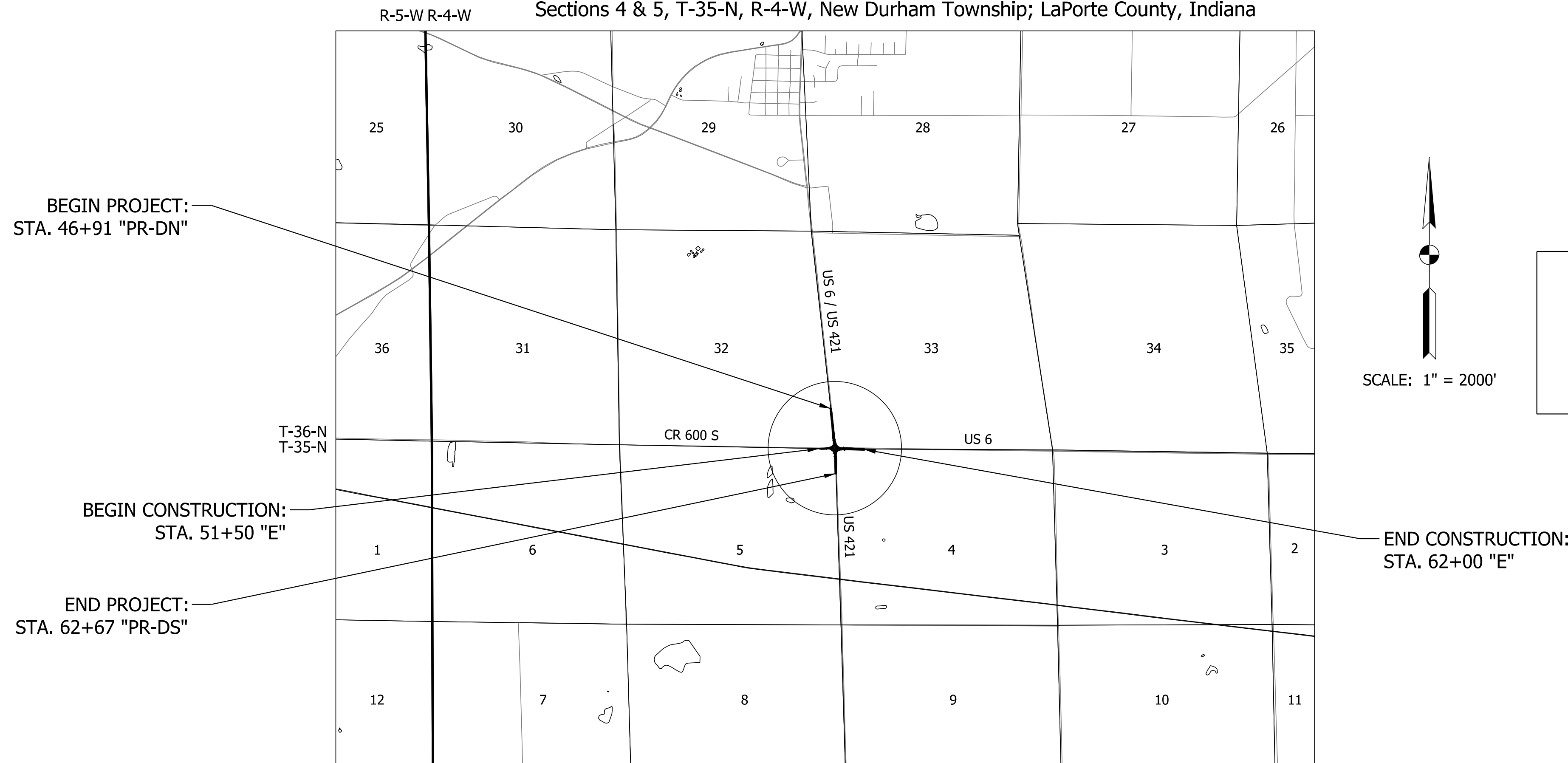
ROUTE: US 6 FROM: RP 36+003 to RP 36+006

PROJECT NO. 1702989 P.E.
 1702989 R/W
 1702989 CONST.

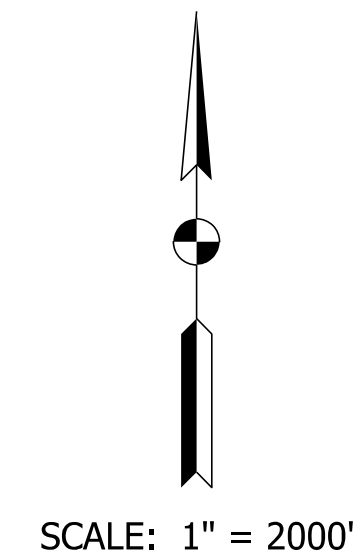
TRAFFIC DATA	North	South	East	West	
	Approach US 6 & US 421	Approach US 421	Approach US 6	Approach CR 600 S	
A.A.D.T. (2024)	5,970	3,920	3,490	1,010	V.P.D.
A.A.D.T. (2042)	6,490	4,270	3,800	1,100	V.P.D.
D.H.V. (2042)	588	380	347	110	V.P.H.
DIRECTIONAL DISTRIBUTION	56%	56%	53%	58%	%
TRUCKS	18.5%	15.0%	19.8%	2.5%	A.A.D.T.
	13.5%	14.1%	13.2%	2.2%	D.H.V.

DESIGN DATA	45	45	55	40	M.P.H.
DESIGN SPEED					
PROJECT DESIGN CRITERIA	Reconstruction (4R), Non-Freeway				
FUNCTIONAL CLASSIFICATION	US 6 & US 421: Principal Arterial-Other				CR 600 S: Minor Collector
RURAL/URBAN					RURAL
TERRAIN					LEVEL
ACCESS CONTROL					NONE

New Construction Roundabout at Intersection of US 6 and US 421, South Junction
 Sections 32 & 33, T-36-N, R-4-W, Clinton Township; and
 Sections 4 & 5, T-35-N, R-4-W, New Durham Township; LaPorte County, Indiana

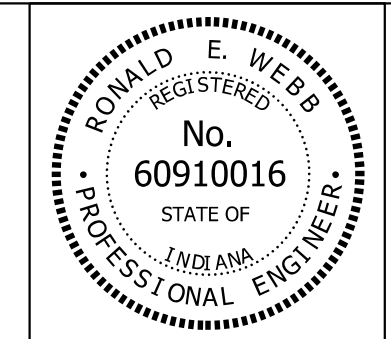


LATITUDE: 41° 31' 06" N LONGITUDE: 86° 53' 39" W



GROSS LENGTH;	0.30	MI.
NET LENGTH:	0.30	MI.
MAX. GRADE:	2.00	%

INDIANA DEPARTMENT OF TRANSPORTATION
 STANDARD SPECIFICATIONS DATED 2024
 TO BE USED WITH THESE PLANS



PLANS PREPARED BY: GAI Consultants Inc. 317-570-6800 PHONE NUMBER
 CERTIFIED BY: *Ronald E. Webb* 8-22-2023 DATE
 APPROVED FOR LETTING: *Mark Bailey* 11/10/2023 DATE
 INDIANA DEPARTMENT OF TRANSPORTATION

	DESIGNATION	
	1702989	
SURVEY BOOK	SHEETS	
	1 of 82	
CONTRACT	PROJECT	
R-43059	1702989	

By: HuythKT Per: Transportation.tbl Model: RD - Title Sheet
 Plot: 8/24/2023 2:22 AM
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UTILITIES

Electric

Kankakee Valley REMC
8642 W. US Hwy 30 PO Box 157
Wanatah, IN 46390
Contact: Bri Travis
Phone: (800)552-2622
Email: btravis@kyremc.com

NIPSCO Electric (LaPorte)
801 East 86th Avenue
Merrillville, IN 46410
Contact: Chris Stallon
Phone: (219)647-5036
Email: cstallon@nisource.com

Sanitary

Town of Westville
100 Setser Drive
Westville, IN 46391
Contact: Nathan Howell
Phone: (219)921-6292
Email: westville.utility@westville.us

Gas

NIPSCO Gas (LaPorte)
801 East 86th Avenue
Merrillville, IN 46410
Contact: Dean Garrett
Phone: (219)647-4912
Email: utilitycoordination@nisource.com

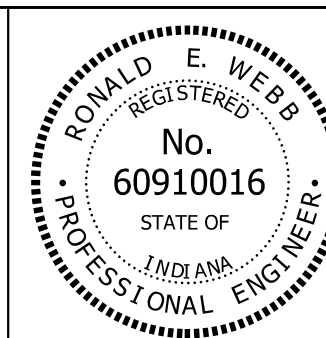
Communication

Frontier
8001 West Jefferson Blvd
Fort Wayne, IN 46804
Contact: Chuck McKean
Phone: (219)476-5109
Email: Chuck.McKean@ftr.com

GENERAL NOTES

INDEX

SHEET NO.	DRAWINGS INDEX
1	TITLE
2	INDEX AND GENERAL NOTES
3 - 5	TYPICAL SECTIONS
6 - 8	LOCATION CONTROL ROUTE SURVEY
9 - 11	GEOMETRIC TIE SHEETS
12 - 13	TEMPORARY TRAFFIC CONTROL
14 - 20	PLAN AND PROFILES
21 - 29	CONSTRUCTION DETAILS
30 - 31	SPOT ELEVATION DETAILS
32 - 37	EROSION CONTROL DETAILS
38 - 47	SIGNS AND PAVEMENT MARKINGS
48 - 52	LIGHTING PLAN DETAILS
53 - 55	APPROACH TABLES
56	UNDERDRAIN TABLE
57	STRUCTURE DATA, PIPE MATERIAL, & MISCELLANEOUS TABLES
58 - 82	CROSS SECTIONS

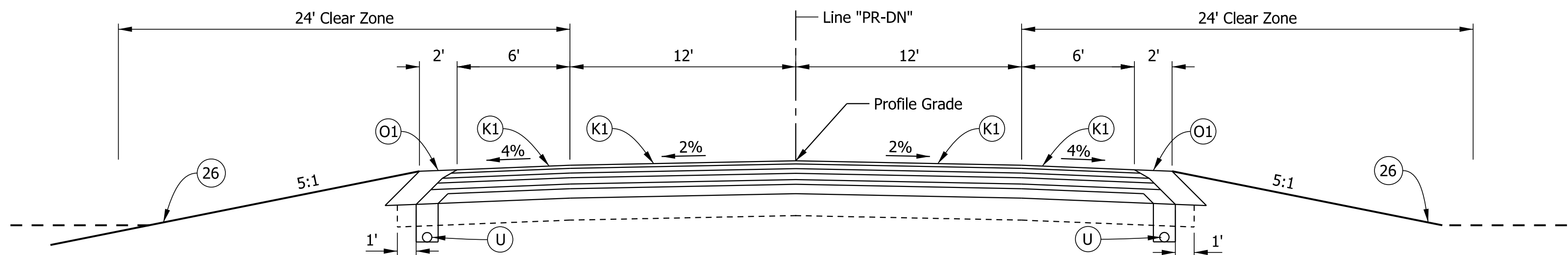


RECOMMENDED FOR APPROVAL	<i>Ronald E. Webb</i>	8-24-2023
	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: ZJM	
CHECKED: REW	CHECKED: REW	

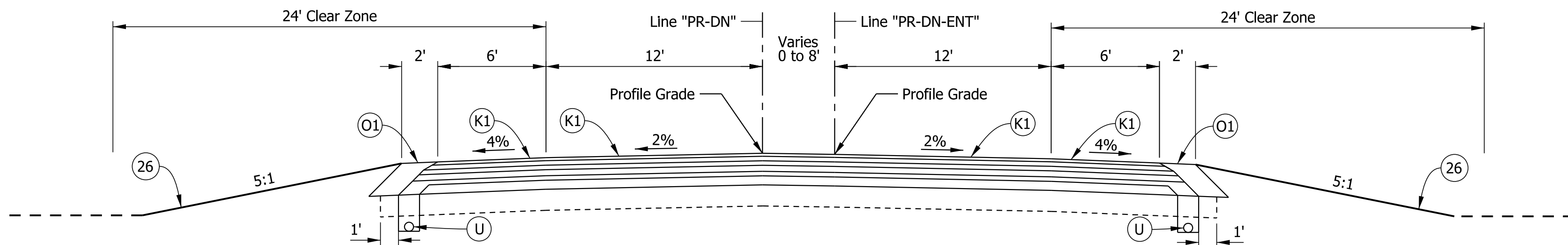
INDIANA
DEPARTMENT OF TRANSPORTATION

INDEX AND GENERAL NOTES

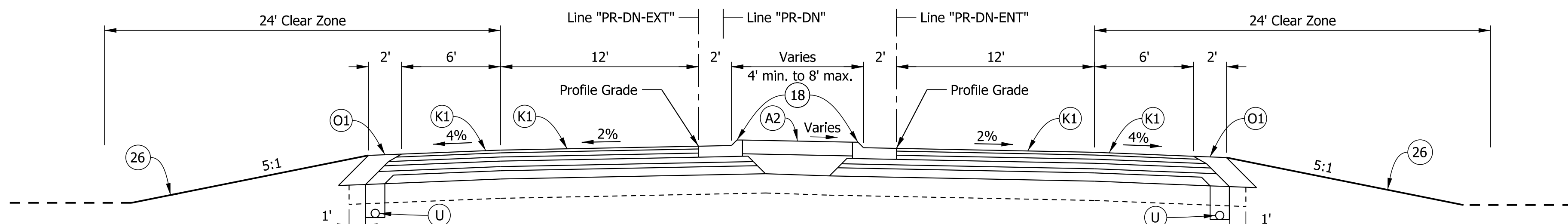
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	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	2 of 82
CONTRACT	PROJECT
R-43059	1702989



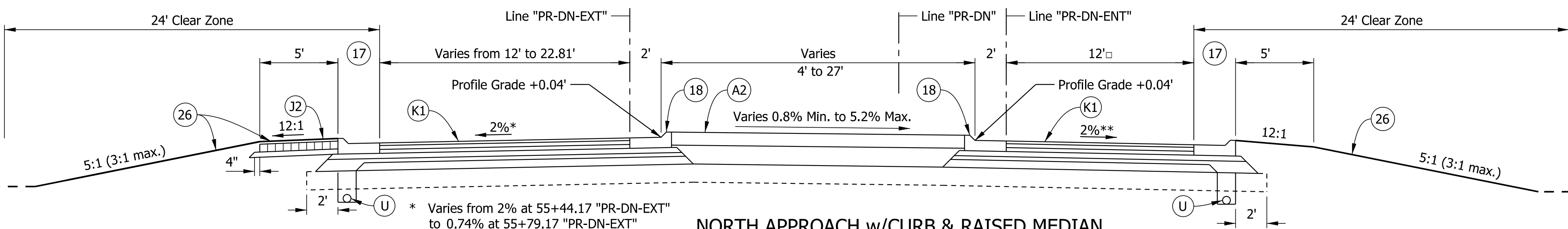
NORTH APPROACH RECONSTRUCT TRAVEL LANES
P.O.T. 46+91 Line "PR-DN" to P.O.T. 51+00 Line "PR-DN"



NORTH APPROACH w/SHOULDER & FLUSH MEDIAN
P.O.T. 51+00 Line "PR-DN" to P.O.T. 52+69.64 Line "PR-DN"
P.C. 51+00 Line "PR-DN-ENT" to P.O.T. 52+69.60 Line "PR-DN-ENT"

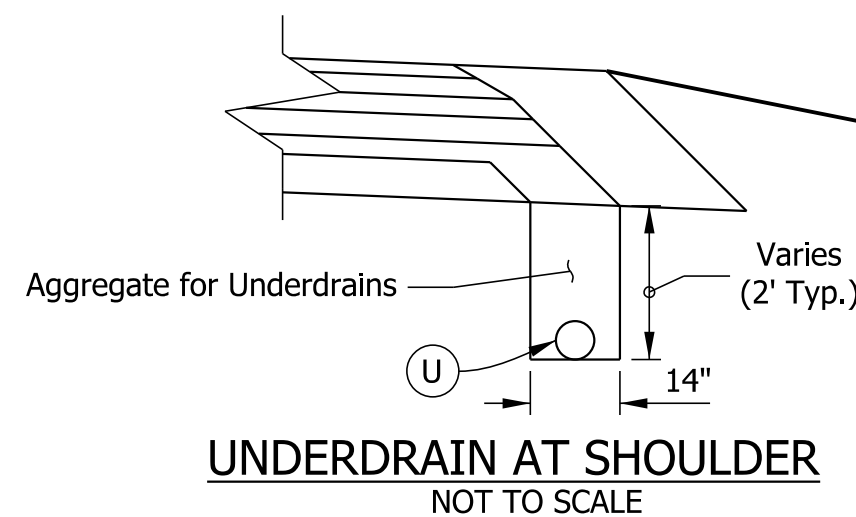


NORTH APPROACH w/SHOULDER & RAISED MEDIAN
P.O.T. 52+69.64 Line "PR-DN" to P.O.C. 54+45.33 Line "PR-DN-EXT"
P.O.T. 52+69.60 Line "PR-DN-ENT" to P.O.C. 54+44.99 Line "PR-DN-ENT"

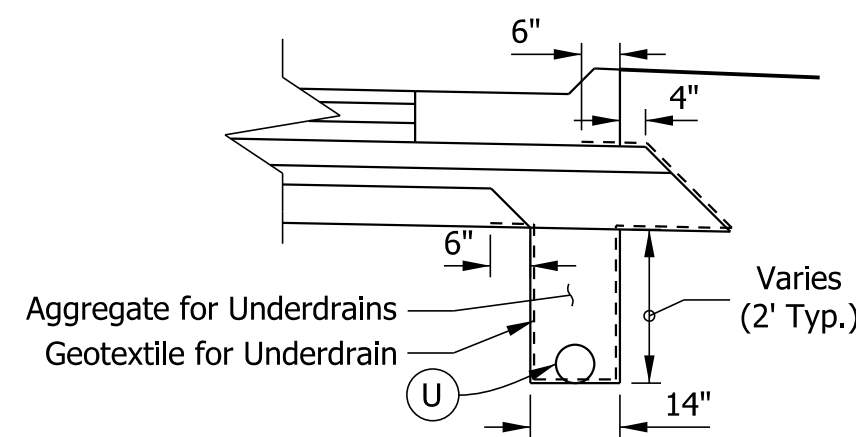


NORTH APPROACH w/CURB & RAISED MEDIAN
P.O.C. 54+45.33 Line "PR-DN-EXT" to P.O.T. 55+79.17 Line "PR-DN-EXT"
P.O.C. 54+44.99 Line "PR-DN-ENT" to P.O.C. 55+81.16 Line "PR-DN-ENT"

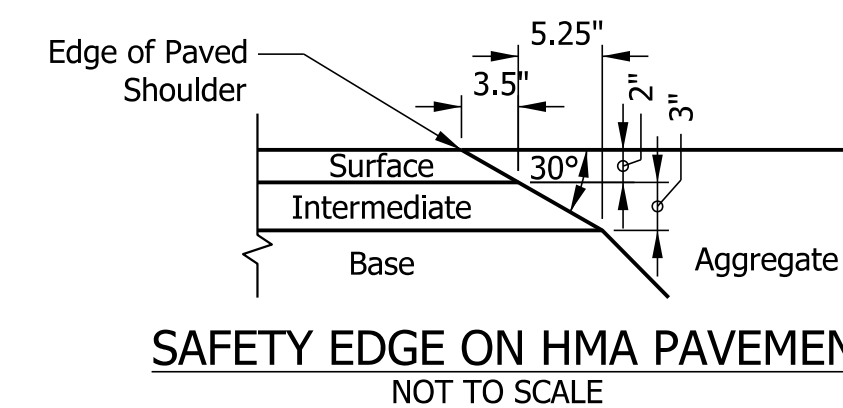
* Varies from 2% at 55+44.17 "PR-DN-EXT" to 0.74% at 55+79.17 "PR-DN-EXT"
** Varies from 2% at 55+77.13 "PR-DN-ENT" to 1.96% at 55+81.16 "PR-DN-ENT"
□ Varies from 16' at 54+44.99 "PR-DN-ENT" to 12' at 54+89.94 "PR-DN-ENT" to 20.94' at 55+81.16 "PR-DN-ENT"



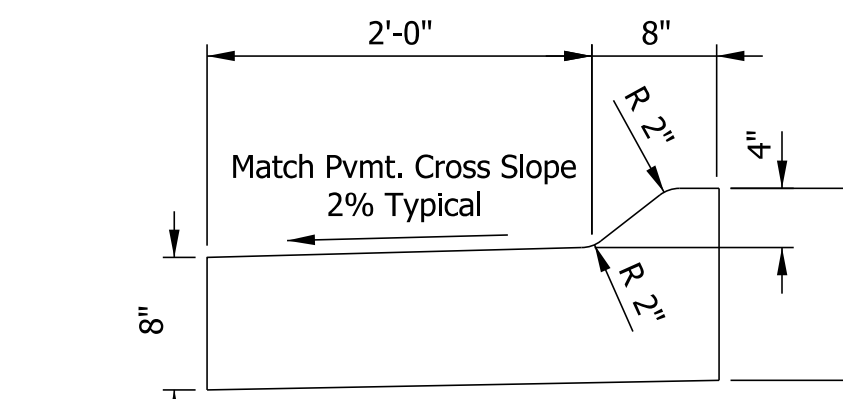
UNDERDRAIN AT SHOULDER
NOT TO SCALE



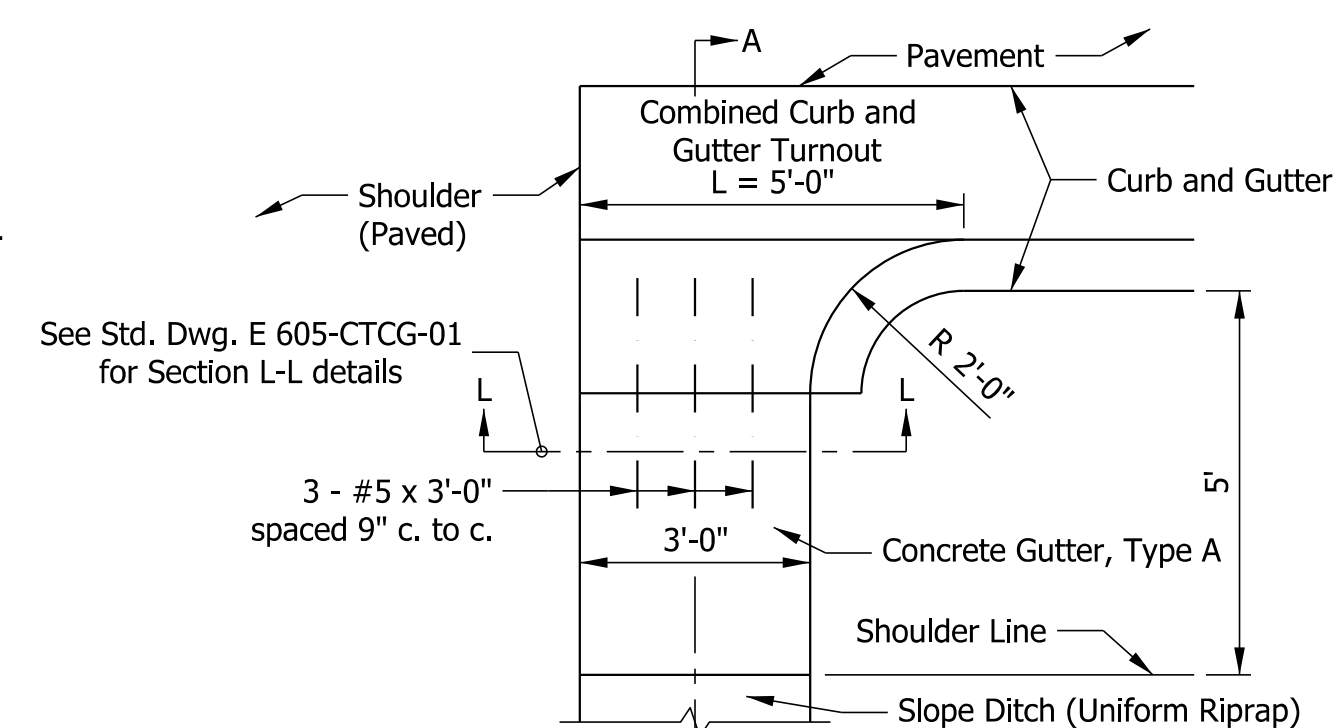
UNDERDRAIN AT CURB & GUTTER
NOT TO SCALE



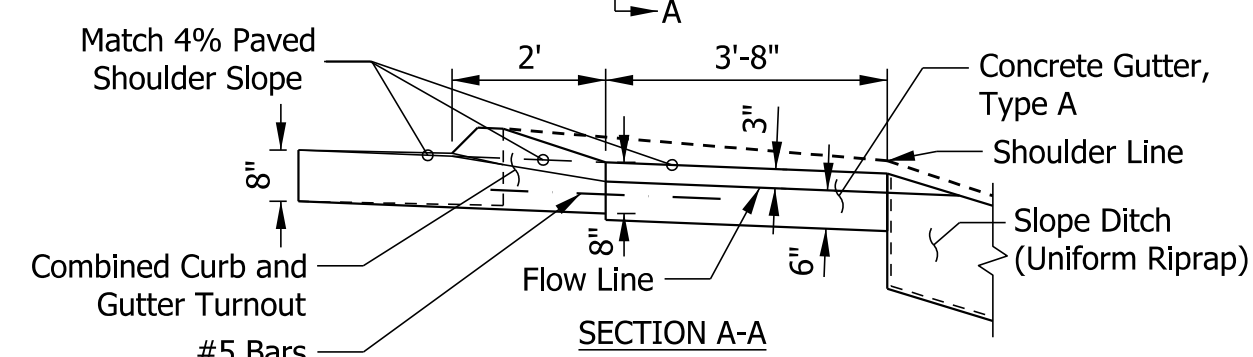
SAFETY EDGE ON HMA PAVEMENT
NOT TO SCALE



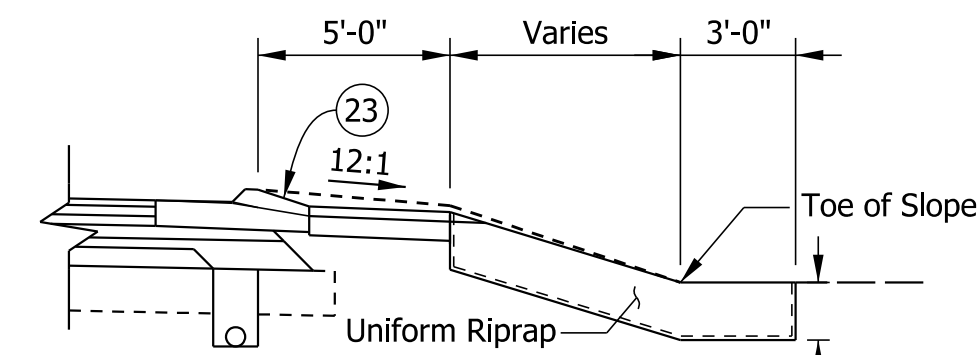
COMBINED CONCRETE CURB AND GUTTER, TYPE B MODIFIED
NOT TO SCALE



COMBINED CURB AND GUTTER TURNOUT AT SHOULDER
NOT TO SCALE



RIPRAP SLOPE DITCH



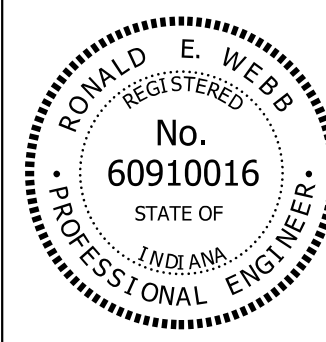
OVERSIZE VEHICLE APRON

54+63.2 Line "PR-DN-ENT" to 55+74.9 Line "PR-DN-ENT"
□ Varies from 5' at 54+79.0 "PR-DN-ENT" to 10.2' at 55+13.6 "PR-DN-ENT" to 5' at 55+56.3 "PR-DN-ENT"

LEGEND

- (A1) Truck Apron
PCCP, 10 in. w/ Transverse D-1 Joints @ 15 ft. spacing*, on 14 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
(* Spacing measured at the outer radius of the apron)
- (A2) PCCP, 10 in., on 15 in. Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
- (J2) Geocell Confinement System:
2 in. Infill Topsoil-Aggregate Mix, on 6 in. Geocell Confining System, on 4 in. of Compacted Aggregate, No. 53, on Geotextile for Pavement, Type 2B, on Subgrade Treatment Type III
- (K1) Full Depth HMA, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 330 lbs/syd QC/QA HMA, 4, 76, Intermediate, 12.5mm, on 330 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 440 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 300 lbs/syd QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on 6 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
- (K2) HMA for Approaches, Type B, consisting of:
165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O1) 21 in. of Compacted Aggregate, No. 53
- (O2) 10 in. of Compacted Aggregate, No. 53
- (R1) HMA Resurfacing Mainline, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 2" Asphalt Surface Milling
- (R2) HMA Resurfacing Approaches, consisting of:
165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
- (U) Pipe, 6 in., Type 4
- (17) Concrete Curb and Gutter, Type B
- (18) Concrete Curb and Gutter, Type B, Modified
- (19) Concrete Curb and Gutter, Modified (Roundabout)
- (23) Combined Curb and Gutter Turnout w/Concrete Gutter, Type A
- (26) Mulched Seeding, Type R

Plot: 8/24/2023 11:43:18 AM By: HuythKT Per: Transportation.tbl Model: Typical Section 01

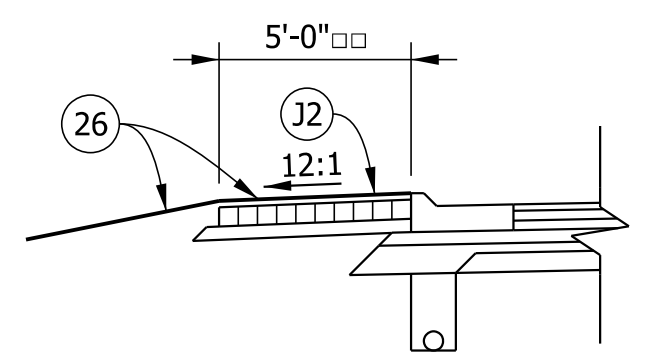


RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE
DESIGNED: JJV DRAWN: ZJM & JJV
CHECKED: REW CHECKED: REW

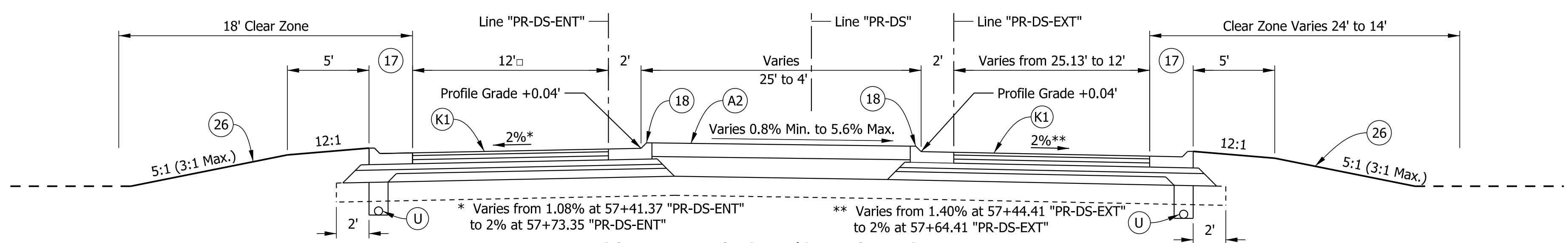
INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
LINES "PR-DN", "PR-DN-EXT, & "PR-DN-ENT"

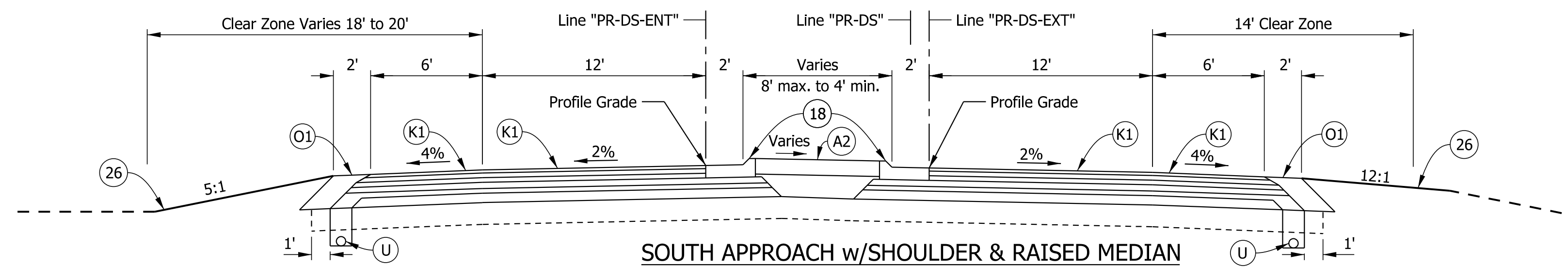
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1" = 5'	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	3 of 82
CONTRACT	PROJECT
R-43059	1702989



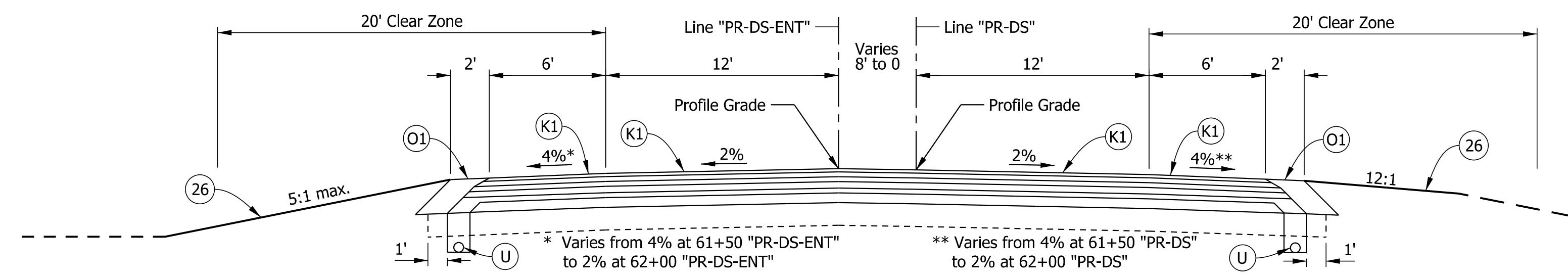
OVERSIZE VEHICLE APRON
 57+37.4 Line "PR-DS-ENT" to 58+71.0 Line "PR-DS-ENT"
 □ Varies from 5' at 57+72.3 "PR-DS-ENT" to 8.9' at 58+08.3 "PR-DS-ENT" to 5' at 58+38.1 "PR-DS-ENT"



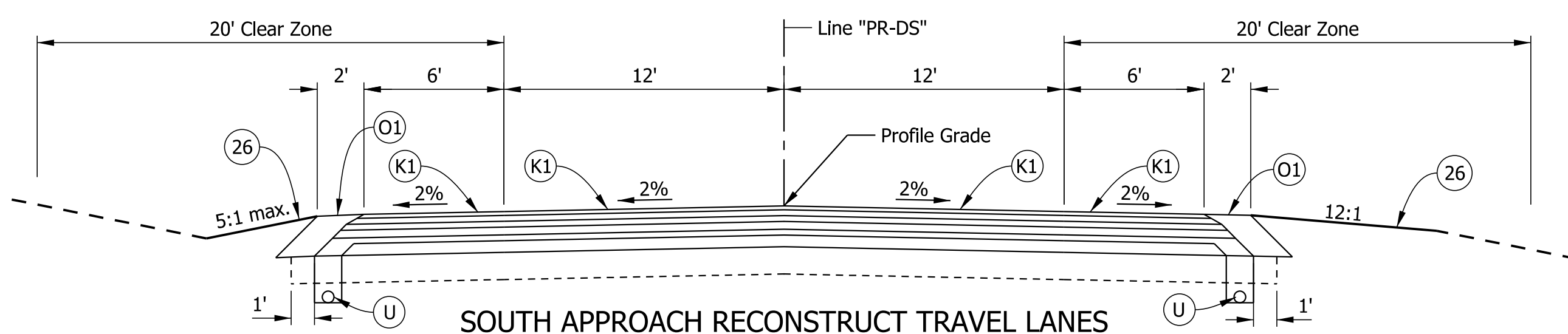
SOUTH APPROACH w/CURB & RAISED MEDIAN
 P.O.C. 57+41.37 Line "PR-DS-ENT" to P.O.T. 58+74.20 Line "PR-DS-ENT"
 P.O.T. 57+44.41 Line "PR-DS-EXT" to P.O.C. 58+57.64 Line "PR-DS-EXT"



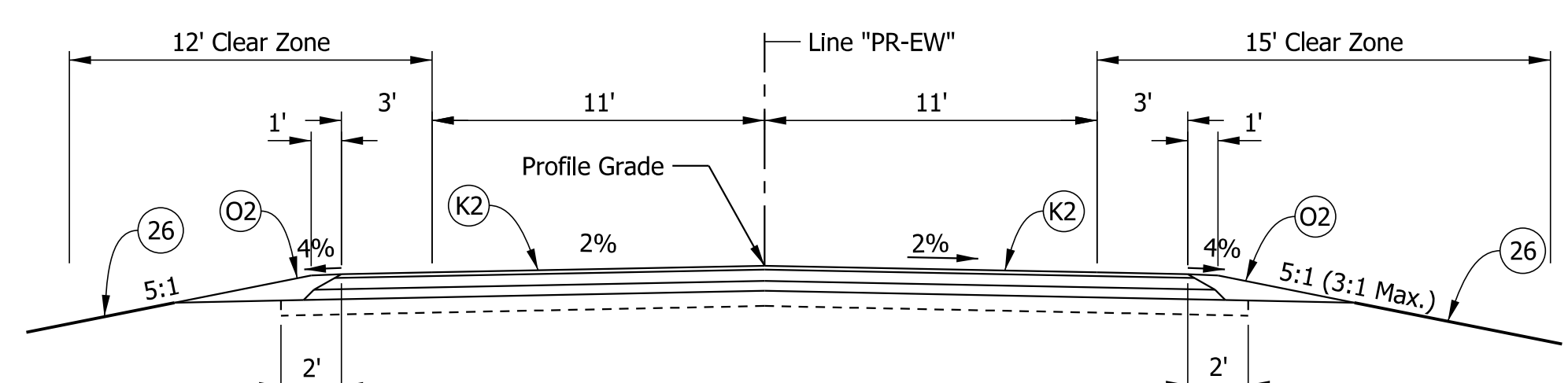
SOUTH APPROACH w/SHOULDER & RAISED MEDIAN
 P.O.T. 58+74.20 Line "PR-DS-ENT" to P.O.T. 60+52.93 Line "PR-DS-ENT"
 P.O.C. 58+57.64 Line "PR-DS-EXT" to P.O.T. 60+52.92 Line "PR-DS"



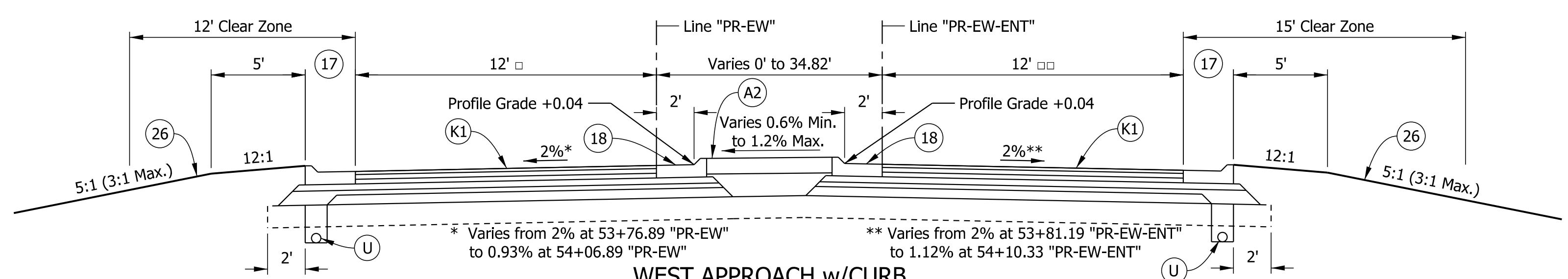
SOUTH APPROACH w/SHOULDER & FLUSH MEDIAN
 P.O.T. 60+52.93 Line "PR-DS-ENT" to P.T. 62+50.00 Line "PR-DS-ENT"
 P.O.T. 60+52.92 Line "PR-DS" to P.O.T. 62+50.00 Line "PR-DS"



SOUTH APPROACH RECONSTRUCT TRAVEL LANES
 P.O.T. 62+50 Line "PR-DS" to P.O.T. 62+67 Line "PR-DS"



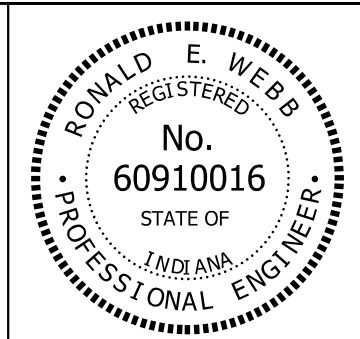
WEST APPROACH w/SHOULDER
 P.C. 51+50 Line "PR-EW" to P.O.C. 52+76.18 Line "PR-EW"



WEST APPROACH w/CURB
 □ Varies from 12' at 52+76.18 "PR-EW" to 25.03' at 54+06.89 "PR-EW"
 P.O.C. 52+76.18 Line "PR-EW" to P.O.T. 54+06.89 "PR-EW"
 P.C. 53+14.21 "PR-EW-ENT" TO P.O.T. 54+10.33 "PR-EW-ENT"
 □ Varies from 12' at 53+01.51 "PR-EW" to 17.50' at 54+10.33 "PR-EW-ENT"

- LEGEND**
- (A1) Truck Apron
 PCCP, 10 in. w/ Transverse D-1 Joints @ 15 ft. spacing*, on 14 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 (* Spacing measured at the outer radius of the apron)
 - (A2) PCCP, 10 in., on 15 in. Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (J2) Geocell Confinement System:
 2 in. Infill Topsoil-Aggregate Mix, on 6 in. Geocell Confining System, on 4 in. of Compacted Aggregate, No. 53, on Geotextile for Pavement, Type 2B, on Subgrade Treatment Type III
 - (K1) Full Depth HMA, consisting of:
 220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 330 lbs/syd QC/QA HMA, 4, 76, Intermediate, 12.5mm, on 440 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 300 lbs/syd QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on 6 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (K2) HMA for Approaches, Type B, consisting of:
 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
 - (O1) 21 in. of Compacted Aggregate, No. 53
 - (O2) 10 in. of Compacted Aggregate, No. 53
 - (R1) HMA Resurfacing Mainline, consisting of:
 220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 2" Asphalt Surface Milling
 - (R2) HMA Resurfacing Approaches, consisting of:
 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
 - (U) Pipe, 6 in., Type 4
 - (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Modified (Roundabout)
 - (23) Combined Curb and Gutter Turnout w/Concrete Gutter, Type A
 - (26) Mulched Seeding, Type R

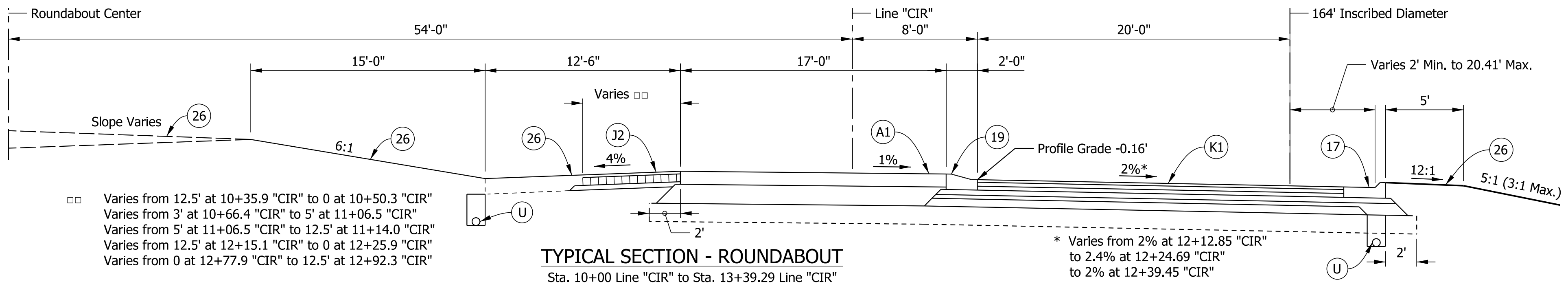
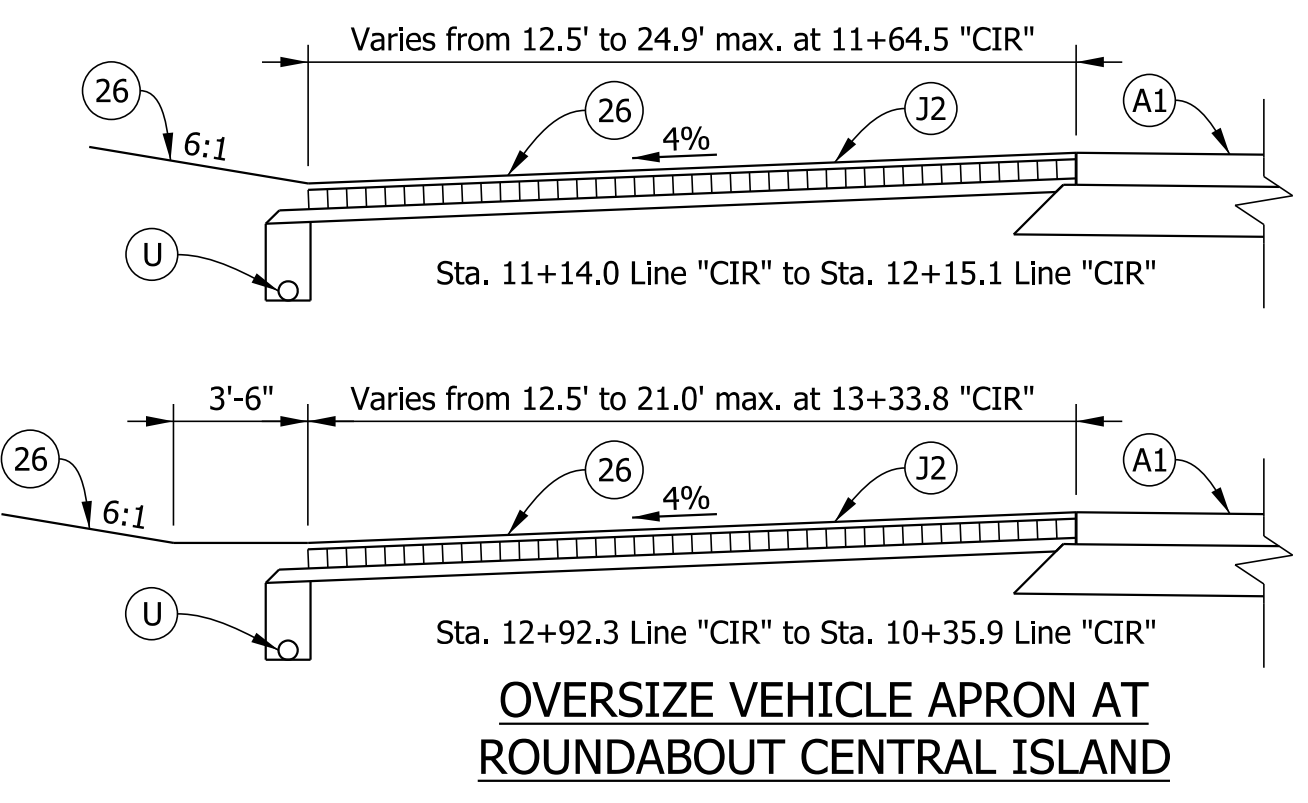
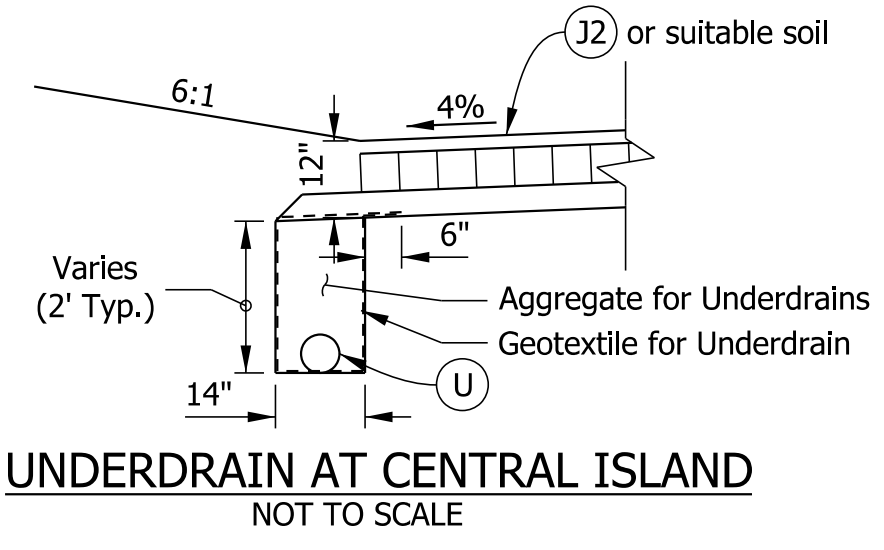
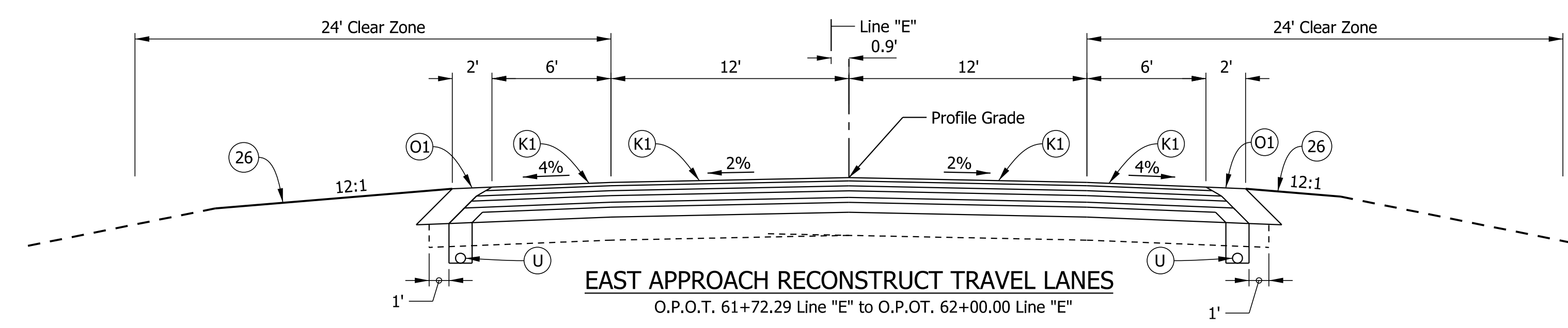
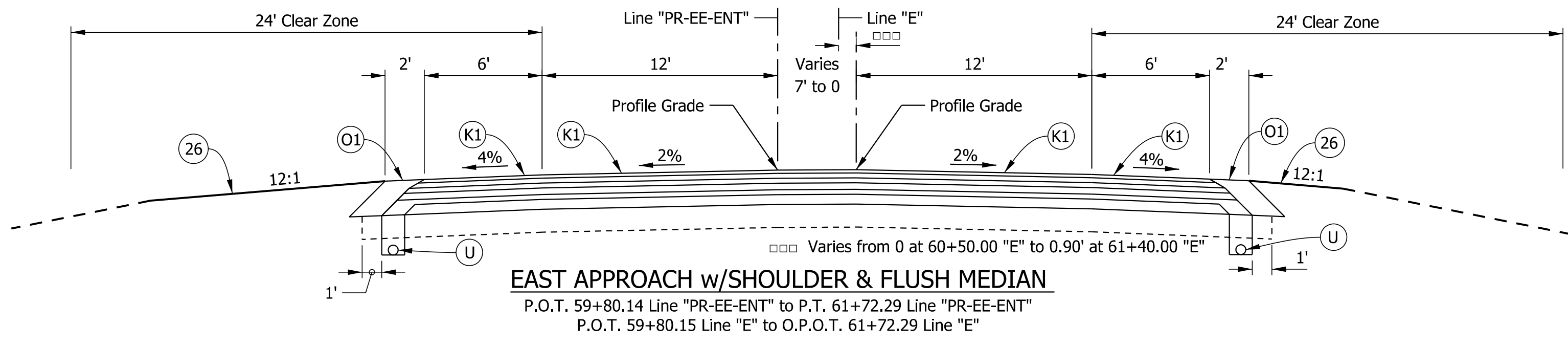
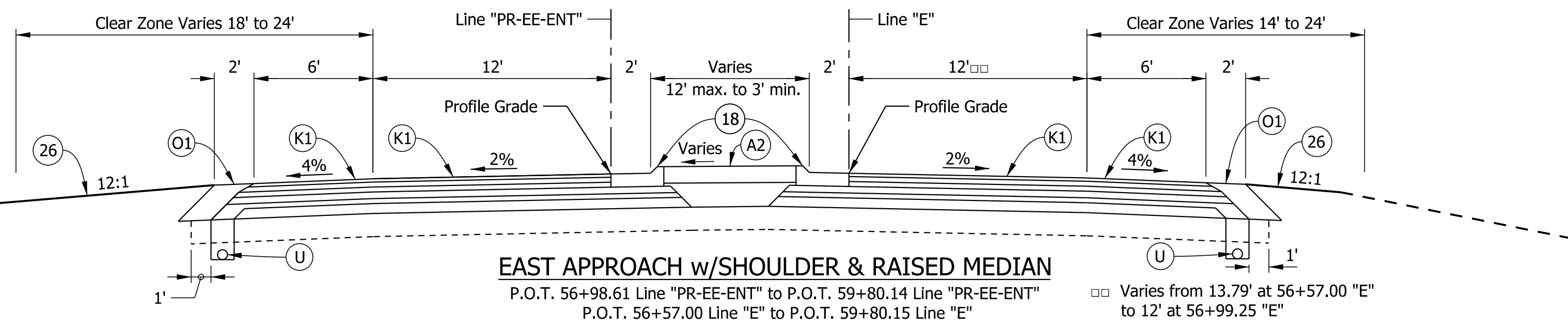
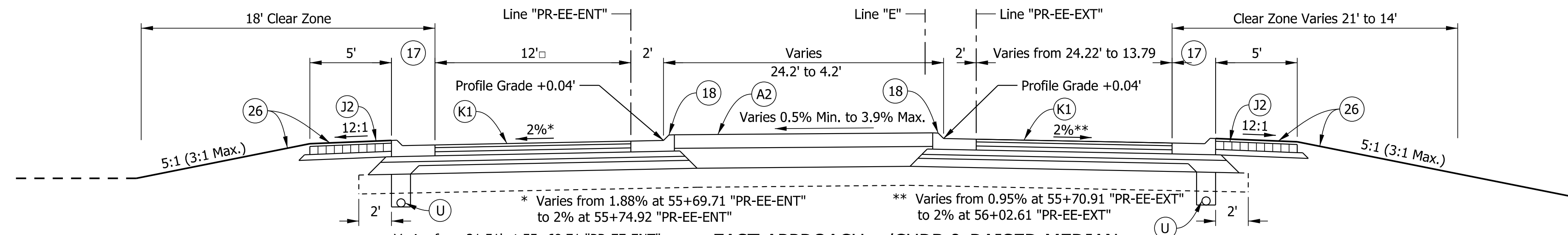
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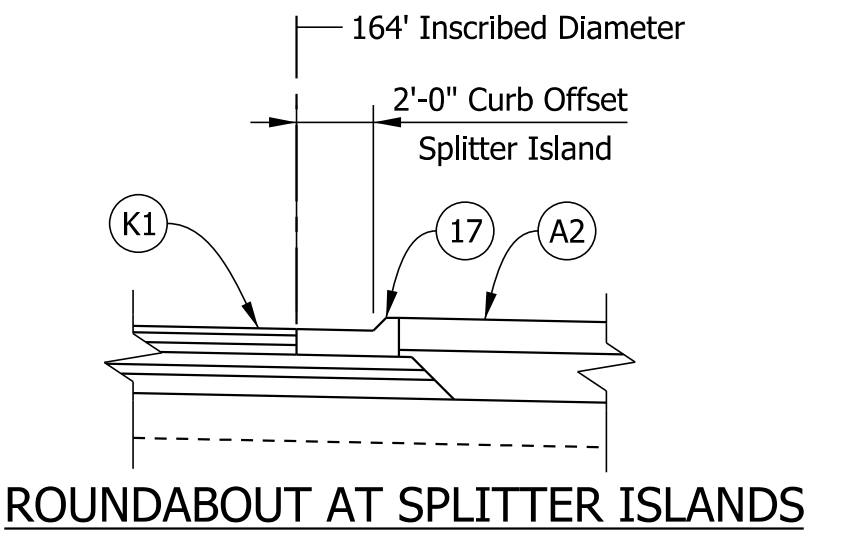
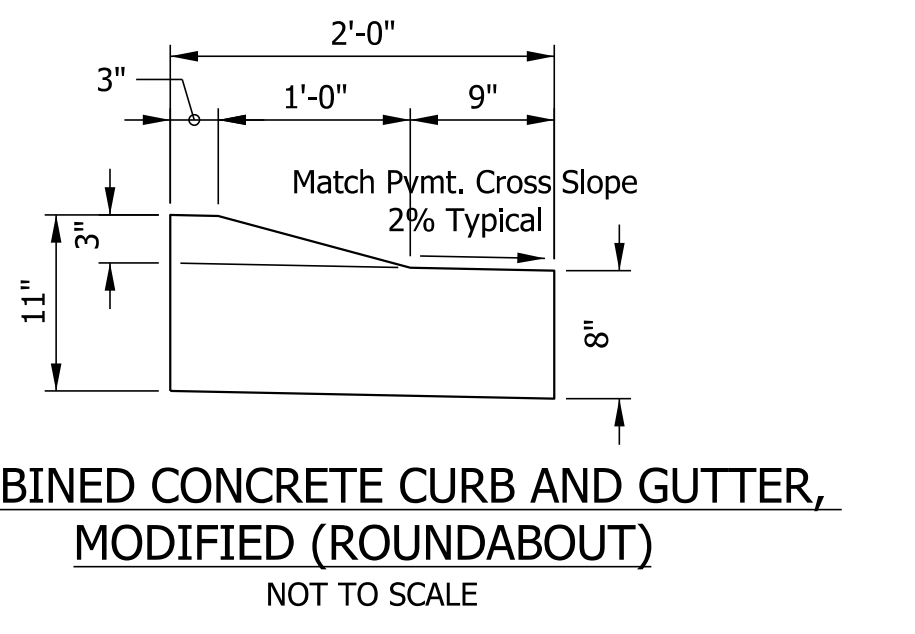
RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE
 DESIGNED: JJV DRAWN: JJV
 CHECKED: REW CHECKED: REW

INDIANA DEPARTMENT OF TRANSPORTATION
 TYPICAL SECTIONS
 LINE "PR-DS" & "PR-EW"

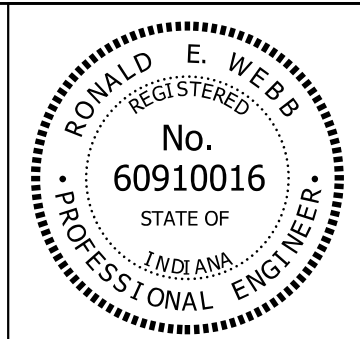
SCALE	BRIDGE FILE
1" = 5'	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	4 of 82
CONTRACT	PROJECT
R-43059	1702989



- LEGEND**
- (A1) Truck Apron
 PCCP, 10 in. w/ Transverse D-1 Joints @ 15 ft. spacing*, on 14 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 (* Spacing measured at the outer radius of the apron)
 - (A2) PCCP, 10 in., on 15 in. Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (J2) Geocell Confinement System:
 2 in. Infill Topsoil-Aggregate Mix, on 6 in. Geocell Confining System, on 4 in. of Compacted Aggregate, No. 53, on Geotextile for Pavement, Type 2B, on Subgrade Treatment Type III
 - (K1) Full Depth HMA, consisting of:
 220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 330 lbs/syd QC/QA HMA, 4, 76, Intermediate, 12.5mm, on 330 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 440 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 300 lbs/syd QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on 6 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (K2) HMA for Approaches, Type B, consisting of:
 165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
 - (O1) 21 in. of Compacted Aggregate, No. 53
 - (O2) 10 in. of Compacted Aggregate, No. 53
 - (R1) HMA Resurfacing Mainline, consisting of:
 220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 2" Asphalt Surface Milling
 - (R2) HMA Resurfacing Approaches, consisting of:
 165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling
 - (U) Pipe, 6 in., Type 4
 - (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Modified (Roundabout)
 - (23) Combined Curb and Gutter Turnout w/Concrete Gutter, Type A
 - (26) Mulched Seeding, Type R



Plot: 8/24/2023 11:43:39 AM By: HuyhNKT Per: Transportation.tbl Model: Typical Section 03



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: JJV
 CHECKED: REW CHECKED: REW

INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS LINES "E" & "CIR"

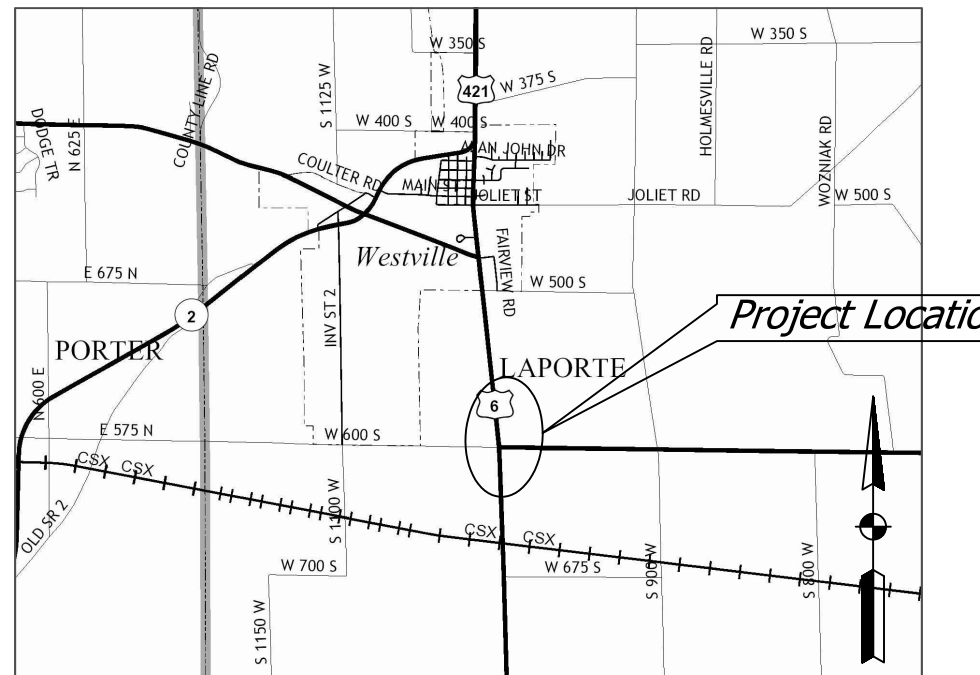
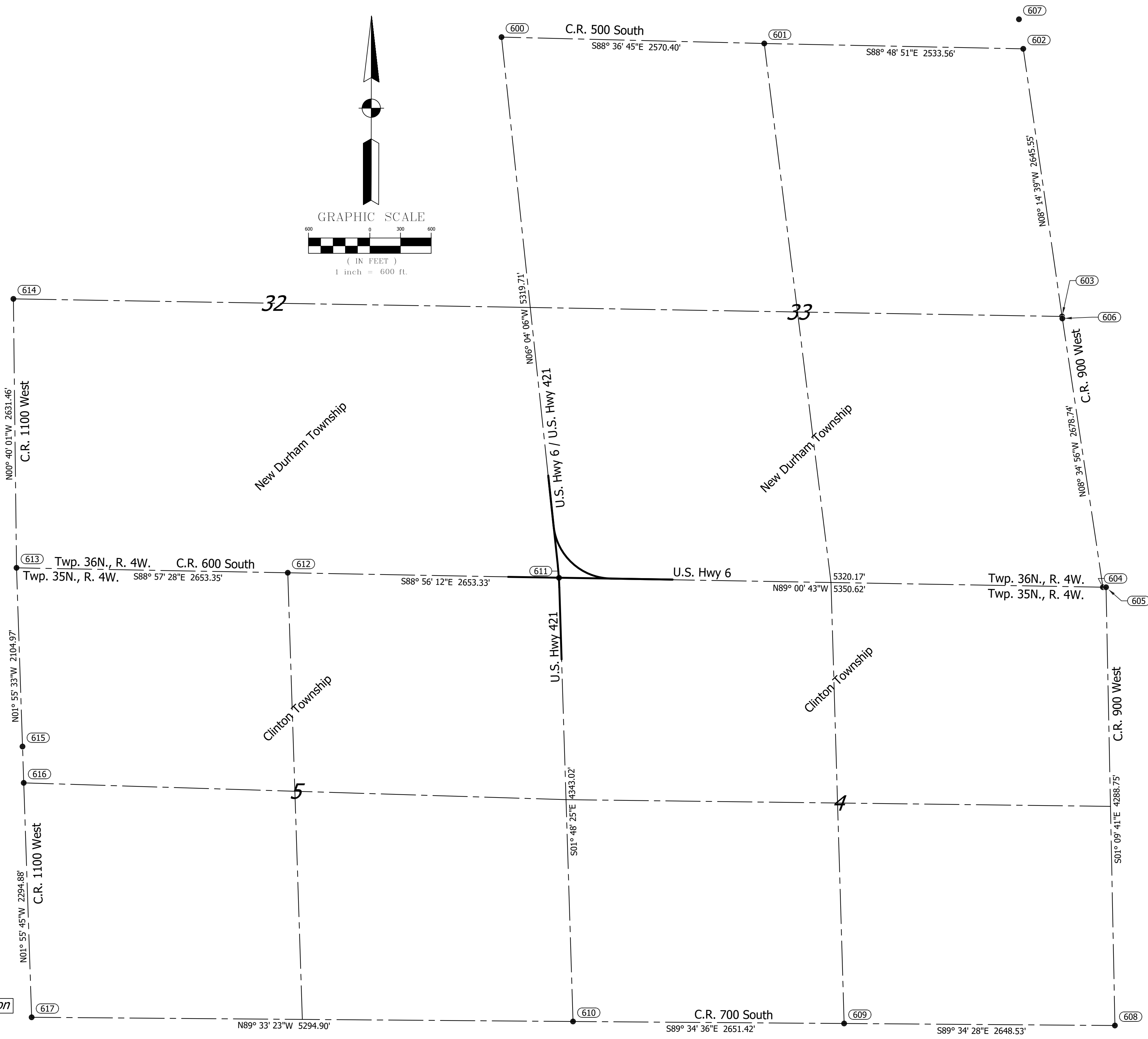
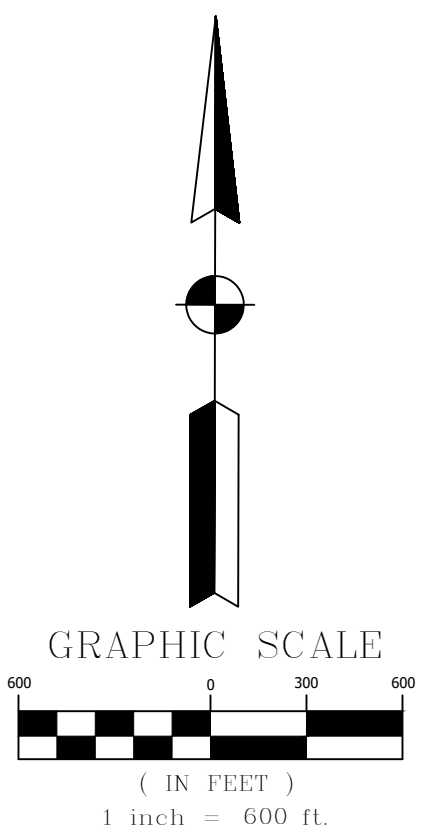
SCALE 1" = 5'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 5 of 82
CONTRACT R-43059	PROJECT 1702989

SURVEYOR REPORT
(ROUTE SURVEY)

The subject US Route 6/US Route 421 intersection improvement project is in the Town of Westville and is located in Sections 4 & 5, Township 35 North, Range 4 West and in Sections 32 & 33, Township 36 North, Range 4 West, in Clinton & New Durham Townships, LaPorte County, Indiana.

- The purpose of this Location Control Route Survey is to collect pertinent survey data for the design of a round-a-bout project for the US-6/US-421 intersection and to serve as the basis for describing additional right-of-way parcels needed to complete this project. This is not a boundary retracement survey. All apparent property lines and corners found and shown on this plat are based on field observations and limited deed information. The property lines and corners are included on this plat for informational purposes only.
- In accordance with Title 865, Article 1, Chapter 12, sections 20 through 25 of the Indiana Administrative Code ("Rule 12"), the following observations and opinions are submitted regarding the various uncertainties in the locations of the lines and corners established this route survey as a result of uncertainties in reference monuments, lines of occupation, inconsistencies in right-of-way grants, and random errors in measurement.
- Alignment Data:

Lines C, D and E from INDOT Project No ST-212-4(F) were reestablished by using existing monumentation, physical evidence of R/W (fences / concrete markers), and original plan geometry. No centerline monuments were found for said "Lines". Therefore, plan geometry from the 1999 Location Control Route Survey (LCRS) by Cole Associates Inc., (tangents, deltas & curve data) was held to reestablish said "Lines". The section corners depicted on said 1999 LCRS plat were recovered and located with this current survey and used to rotate/translate the plan geometry from said 1999 LCRS. The largest horizontal difference noted between section corner monuments found on said 1999 LCRS and the current survey was 0.05' and the largest angular difference was 0°00'14".
- Plats, notes and witnesses utilized this survey:
 - Road plans:
 - Right-of-Way Plans Intersection Improvement U.S. 6 at RP 036+051, Project No. STP-212-4(F), Code 3947, by H. Stewart Kline & Assoc., dated December 12, 2000.
 - Section Corner Witnesses:
 - Section corner witnesses obtained online from the LaPorte County Surveyors Office web site.
 - Based on the LaPorte County Surveyors naming convention, the following section corners were searched for in the field: (Twp 35 N., R. 4W.: 0471, 0472, 0473, 0474, 0475, 0476, 0480, 0482, 0483, 0484), (Twp 36 N., R. 4W.: 0851, 0852, 0853, 0854, 0855). All corners found were in agreement with the witnesses except the following which were not found, or the monument was different: (0472, 0484, 0853). Distances appear to be in substantial agreement with the LCRS plat listed in Item '4A' above and the survey listed in '4C' below.
 - Surveys of Record:
 - "Plat of Survey for Northern Indiana Public Service Company", by Metro Consulting Associates, dated January 25, 2019 and recorded March 12, 2019 as Document #2018R-02583-2.
 - Location Control Route Survey Plat, by Cole Associates Inc. a DLZ Company, dated June 7, 1999 and recorded June 10, 1999 as Document #99-13067.
- Monuments and Markers
 - Section corner monuments found and used, as shown on this survey plat, appear to be in substantial agreement with the section corner monuments shown on the LaPorte County Section Corner witness sheets.
 - The field measurements for this survey were made in accordance with the specifications for an "Urban Survey" as described in 865 IAC-1-12-7 (acceptable "relative positional accuracy" (RPA) 0.07 feet + 50 parts per million) and furthermore do not exceed the maximum allowable RPA per 865 IAC 1-12-22(a) (0.5).
- In accordance with 865 IAC 1-12-23, the following opinions are submitted regarding the various uncertainties in the locations of the lines and corners found or established on this survey:
 - The uncertainties in the location of the lines and corners found or established on this survey, due to the availability and condition of reference monuments, (section corners / property corners) is estimated to be less than 5 feet. The cause of these uncertainties could relate to "lost" or "obliterated" section corners.
 - The uncertainties in the location of the lines and corners found or established on this survey due to occupation or possession lines is estimated to be less than 10 feet. Cause of uncertainty in occupation could relate to property owners not having a correct understanding of their property lines prior to the placement of improvements (fences, plantings, driveways, etc.) or they may have intentionally kept their improvements away from their property lines. Agreements (either written or unwritten) between adjoining property owners may also be potential cause of discrepancies between apparent occupation and ownership lines.
 - The points established (reference points #1 - #6) are considered original monuments for this survey and therefore have no error as related to this survey.
- The monuments found and established for this survey were located by a combination of conventional traverse/radial measurement techniques and the use of GNSS equipment (RTK method). The correction source for RTK collection is a base station operated by GAI, Geoid12A (CONUS) geoid model was used. The distances shown on this plat are InGCS "grid" distances, however the grid to ground distances are negligible in the Indiana Geospatial Coordinate System.
- The BASIS OF BEARINGS: bearings, distances and coordinates shown on this plat are based on the Indiana Geospatial Coordinate System (InGCS) "LaPorte" zone per NAD83 (2011) epoch 2010.00, unless noted otherwise. The reported distances and coordinates are U.S. Survey Feet and decimal parts thereof. The InGCS "LaPorte" zone has the following published parameters: Geometric Datum - NAD83(2011) epoch 2010.00, Projection Type - Transverse Mercator, Central Meridian - 86°45'00" West longitude, Central Meridian Scale factor 1.000027, Latitude of Grid Origin 40°54'00" North latitude, False Northing - 36,000,000m (118,110.00 US Ft), False Easting - 240,000,000m (787,400.00 US Ft).
- The number of significant figures shown for the coordinates and station / offsets are for mathematical calculations only and are not intended to imply the precision of the original measurements.
- This route survey is not intended in any way to be a property retracement survey and the property lines shown are for informational purposes only. The right-of-way shown (Existing R/W) is based on the deeds for parcels obtained by the State of Indiana. The right-of-way shown (App. R/W) is based on the "assumed" County right-of-way width and no documents transferring ownership to the State or County were found.



This plat was prepared by: David G. Croft, PS
 "I affirm under the penalties for perjury that I have taken reasonable care to redact each social security number in this document, unless required by law."

Printed Name: David G. Croft

SURVEY STARTED		
10/29/2019		
SURVEY COMPLETED		
01/08/2020		
ROUTE PLAT SHEETS		
1	OF	3



9998 Crosspoint Blvd.
Indianapolis, IN 46256
(317) 436-4823
WWW.GAICONCONSULTANTS.COM

Project No. D190007.00

SURVEYOR STATEMENT
 THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-25 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



RECOMMENDED FOR APPROVAL: *David G. Croft* March 12, 2020
 REGISTERED LAND SURVEYOR DATE

DESIGNED: N/A DRAWN: DGC
 CHECKED: N/A CHECKED: JDH

U.S.-6 & U.S.-421
LaPORTE COUNTY, INDIANA

LOCATION CONTROL ROUTE SURVEY

SCALE	BRIDGE FILE
as noted	N/A
ROUTE	PROJECT NO.
US-6/US-421	1702989
SURVEY BOOK	SHEETS
N/A	6 of 82
CONTRACT	COUNTY
R-43059	LaPORTE

Point	Station	Offset	Baseline	INGCS "Hamilton" Zone		Latitude	Longitude	Description	Point Condition	Relation to Ground	Point Origin
				Northing	Easting						
Reference Points											
1	55+82.15	39.889' RL	"D"	343564.868	747881.485	41°31'07.22400"N	86°53'39.53161"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
2	N/A	N/A	N/A	343471.388	747386.284	41°31'06.25026"N	86°53'46.03896"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
3	61+68.14	27.953' LL	"E"	343494.644	748659.642	41°31'06.54214"N	86°53'29.95844"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
4	63+74.06	24.848' RL	"D"	342776.737	747927.341	41°30'59.43852"N	86°53'38.91152"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
5	51+23.95	30.580' LL	"D"	344027.596	747903.185	41°31'11.79565"N	86°53'39.25650"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
6	N/A	N/A	N/A	344507.932	747943.933	41°31'16.54028"N	86°53'40.04580"W	5/8" REBAR SET W/GAI-TRAV. CAP	NEW	FLUSH	GAI
Section 8, 1/4 Corners Found											
600	N/A	N/A	N/A	348766.918	747367.776	41°31'58.60844"N	86°53'46.40020"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
601	N/A	N/A	N/A	348704.678	749937.421	41°31'58.03507"N	86°53'12.61306"W	IRON AXLE ROD FOUND	GOOD	0.50' BELOW	LCSD
602	N/A	N/A	N/A	348652.241	752470.439	41°31'57.55566"N	86°52'39.30010"W	MONUMENT FOUND (HARRISON)	GOOD	0.50' BELOW	LCSD
603	N/A	N/A	N/A	348634.027	752849.796	41°31'51.69477"N	86°52'34.27007"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
604	N/A	N/A	N/A	343385.285	753249.536	41°31'05.53333"N	86°52'28.96490"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
605	N/A	N/A	N/A	343384.667	753279.981	41°31'05.52666"N	86°52'28.56439"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
606	N/A	N/A	N/A	346014.241	753852.722	41°31'31.49922"N	86°52'34.23105"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
607	N/A	N/A	N/A	348941.302	752426.499	41°32'00.41072"N	86°52'39.86514"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
608	N/A	N/A	N/A	339096.888	753264.909	41°30'23.16698"N	86°52'27.24607"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
609	N/A	N/A	N/A	339116.561	750718.449	41°30'23.32219"N	86°53'02.14663"W	MONUMENT FOUND (HARRISON)	GOOD	0.65' BELOW	LCSD
610	N/A	N/A	N/A	339136.154	748067.102	41°30'23.47289"N	86°53'36.99506"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
611	N/A	N/A	N/A	343477.015	747930.153	41°31'06.33671"N	86°53'38.88881"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
612	N/A	N/A	N/A	343526.259	745377.282	41°31'06.78825"N	86°54'13.76320"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
613	N/A	N/A	N/A	343574.526	742824.375	41°31'07.22696"N	86°54'48.63692"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
614	N/A	N/A	N/A	346205.803	742593.749	41°31'33.22180"N	86°54'49.10501"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
615	N/A	N/A	N/A	341826.079	742883.049	41°30'49.95445"N	86°54'47.82189"W	MONUMENT FOUND (HARRISON)	GOOD	FLUSH	LCSD
616	N/A	N/A	N/A	341470.74	742895.112	41°30'46.44410"N	86°54'47.65491"W	1.5" IRON ROD FOUND	GOOD	0.35' BELOW	LCSD
617	N/A	N/A	N/A	339177.159	742772.364	41°30'23.78618"N	86°54'46.58292"W	MONUMENT FOUND (HARRISON)	GOOD	0.80' BELOW	LCSD
Survey Monuments Found											
1038	52+92.44	33.42' RL	E	343447.8207	747733.03507	N/A	N/A	CONCRETE R/W MARKER	GOOD	ABOVE	INDOT
1039	52+92.36	17.96' RL	E	343463.31907	747733.21507	N/A	N/A	CONCRETE R/W MARKER	LEARNING	ABOVE	INDOT
1113	53+84.29	33.29' RL	E	343446.47707	747824.87207	N/A	N/A	CONCRETE R/W MARKER	LEARNING	ABOVE	INDOT
1235	62+82.77	43.08' RL	D	342867.41207	742867.41207	N/A	N/A	CONCRETE R/W MARKER	GOOD	ABOVE	INDOT
1236	62+83.08	30.65' RL	D	342867.49807	742867.49807	N/A	N/A	CONCRETE R/W MARKER	GOOD	ABOVE	INDOT
20717	52+25.10	30.00' LL	C	343930.46107	747915.67907	N/A	N/A	CONCRETE R/W MARKER	POOR	ABOVE	INDOT
Alignment Points											
300	63+00.00	0.000'	"D"	342851.54657	747949.84607	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
301	P.T. 57+69.06	0.000'	"D"	343382.22597	747933.13737	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
302	P.I. 56+62.24	1.994' LL	"D"	343489.08647	747929.77277	N/A	N/A	NO MONUMENT SET	NEW	FLUSH	GAI
303	P.C. 55+55.33	0.000'	"D"	343595.39897	747918.45257	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
304	P.C. 51+66.77	0.000'	"C"	343981.77027	747877.31177	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
305	47+00.00	0	"D"	344445.92087	747827.88887	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
306	50+00.00	0.000'	"E"	343486.17037	747441.19417	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI
307	P.I. 56+73.39	191.855' RL	"C"	343478.00387	747930.95287	N/A	N/A	NO MONUMENT SET	NEW	FLUSH	GAI
308	POT / PT 59+96.44	0.000'	"E" & "C"	343469.55747	748437.49667	N/A	N/A	NO MONUMENT SET	NEW	FLUSH	GAI
309	62+00.00	0.000'	"E"	343466.16367	748641.02597	N/A	N/A	MAG NAIL SET	NEW	FLUSH	GAI

*LCSD = LAPORTE COUNTY SURVEYORS OFFICE

Southwest Quarter
Section 32, T. 36N., R. 4W.
New Durham Township,
LaPorte County, Indiana

Richard O. Krumbacher
Doc. #2008R-06410
Tax. ID #46-09-32-400-006.000-027
(Farm Field)

Northeast Quarter
Section 5, T. 35N., R. 4W.
Clinton Township,
LaPorte County, Indiana

NP Westville Industrial, LLC
Doc. #2019R-00794
Tax. ID #46-13-05-200-009.000-044
(Commercial Use)

Continued on Sheet No. 3

Continued on Sheet No. 3

LEGEND

- APP. Apparent
- Edge of Pavement
- Apparent R/W Lines
- Apparent Property Lines
- Apparent Section Lines
- Existing Fence
- R/W Right-of-Way
- Coordinate Point Set
- Reference Point Set
- Existing Survey Monument Found
- Alignment Point Calculated

GRAPHIC SCALE
(IN FEET)
1 inch = 50 ft.

STA. 50+00.00 LINE "E"	STA. 59+96.44 LINE "E"	STA. 62+00.00 LINE "E"
POINT #306 MAG NAIL SET	POINT #308 NO MONUMENT SET	POINT #309 MAG NAIL SET

ALIGNMENT POINTS

Southwest Quarter
Section 33, T. 35N., R. 4W.
New Durham Township,
LaPorte County, Indiana

Roy H. Kresel Corp.
Doc. #83-08309
Tax. ID #46-09-33-300-011.000-027
(Farm Field)

CURVE DATA
P.I.=56+73.39 "C"
D=10°00'00"
Δ=82°58'00" Lt.
R=572.96'
L=829.67'
T=506.61'
E = 191.85'

POINT #2	POINT #3	POINT #5

REFERENCE POINTS

This plat was prepared by: David G. Croft, PS

"I affirm under the penalties for perjury that I have taken reasonable care to redact each social security number in this document, unless required by law."

Printed Name: David G. Croft

SURVEY STARTED		
10/29/2019		
SURVEY COMPLETED		
01/08/2020		
ROUTE PLAT SHEETS		
2	OF	3

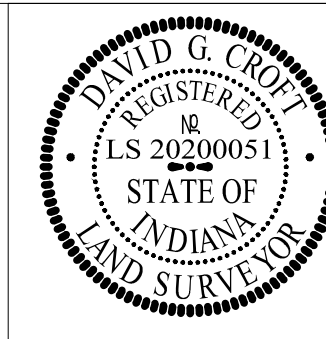


9998 Crosspoint Blvd.
Indianapolis, IN 46256
(317) 436-4823
WWW.GAICONSULTANTS.COM

Project No. D190007.00

SURVEYOR STATEMENT

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXECUTED ACCORDING TO THE PROVISIONS OF TITLE 865 I.A.C. 1-12-20 THROUGH 1-12-25 REGARDING ROUTE SURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT A PART OF THIS SURVEY.



RECOMMENDED FOR APPROVAL		March 12, 2020
DESIGNED: N/A	DRAWN: DGC	
CHECKED: N/A	CHECKED: JDH	

U.S.-6 & U.S.-421
LaPORTE COUNTY, INDIANA

LOCATION CONTROL ROUTE SURVEY

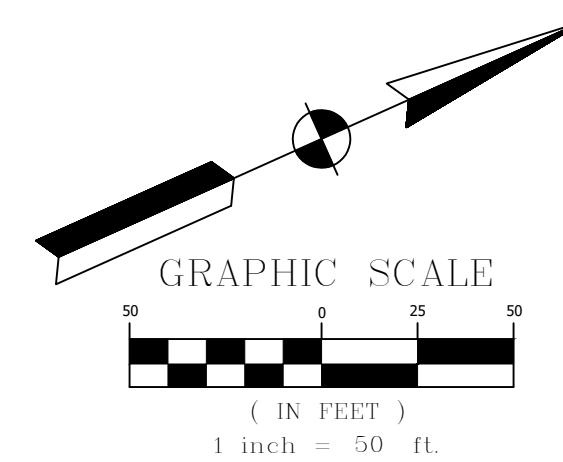
SCALE	BRIDGE FILE
as noted	N/A
ROUTE	PROJECT NO.
US-6/US-421	1702989
SURVEY BOOK	SHEETS
N/A	7 of 82
CONTRACT	COUNTY
R-43059	LaPORTE

<p>STA. 63+00.00 LINE "D"</p> <p>POINT #300 MAG NAIL SET</p>	<p>STA. 57+69.06 LINE "D"</p> <p>POINT #301 MAG NAIL SET</p>	<p>STA. 55+55.33 LINE "D"</p> <p>POINT #302 MAG NAIL SET</p>	<p>STA. 51+66.77 LINE "D"</p> <p>POINT #303 MAG NAIL SET</p>	<p>STA. 47+00.00 LINE "D"</p> <p>POINT #304 MAG NAIL SET</p>
--	--	--	--	--

ALIGNMENT POINTS

LEGEND

- APP. Apparent
- Edge of Pavement
- - - Apparent R/W Lines
- - - Apparent Property Lines
- - - Apparent Section Lines
- - - Existing Fence
- - - R/W Right-of-Way
- 222 Coordinate Point Numbers
- ▲ Reference Point Set
- Existing Survey Monument Found
- Alignment Point Calculated



Southwest Quarter
Section 32, T. 36N., R. 4W.
New Durham Township,
LaPorte County, Indiana

Richard O. Krumbacher
Doc. #2008R-06410
Tax. ID #46-09-32-400-006.000-027
(Farm Field)

Patricia A. & Aaron Patrick Kresel
Doc. #2004R-01721
Tax. ID #46-09-33-300-010.000-027
(Farm Field)

Roy H. Kresel Corp.
Doc. #83-08309
Tax. ID #46-09-33-300-011.000-027
(Farm Field)

Northeast Quarter
Section 5, T. 35N., R. 4W.
Clinton Township,
LaPorte County, Indiana

NP Westville Industrial, LLC
Doc. #2019R-00794
Tax. ID #46-13-05-200-009.000-044
(Commercial Use)

CURVE DATA
P.I.=56+62.24 "D"
D=2°00'00"
Δ=4°16'28" Rt.
R=2864.78'
L=213.73'
T=106.91'
E = 1.99'

CURVE DATA
P.I.=56+73.39 "C"
D=10°00'00"
Δ=82°58'00" Lt.
R=572.96'
L=829.67'
T=506.61'
E = 191.85'

Northwest Quarter
Section 4, T. 35N., R. 4W.
Clinton Township,
LaPorte County, Indiana

Robert W. & LaVonn L. Meyers
Doc. #98-06473
Tax. ID #46-13-04-100-005.000-044
(Farm Field)

<p>POINT #1</p>	<p>POINT #4</p>	<p>POINT #6</p>
-----------------	-----------------	-----------------

REFERENCE POINTS

This plat was prepared by: David G. Croft, PS

"I affirm under the penalties for perjury that I have taken reasonable care to redact each social security number in this document, unless required by law."

Printed Name: David G. Croft

SURVEY STARTED		
10/29/2019		
SURVEY COMPLETED		
01/08/2020		
ROUTE PLAT SHEETS		
3	OF	3



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Project No. D190007.00

SURVEYOR STATEMENT

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RECOMMENDED FOR APPROVAL	<i>David G. Croft</i>	March 12, 2020
DESIGNED: N/A	DRAWN: DGC	DATE
CHECKED: N/A	CHECKED: JDH	

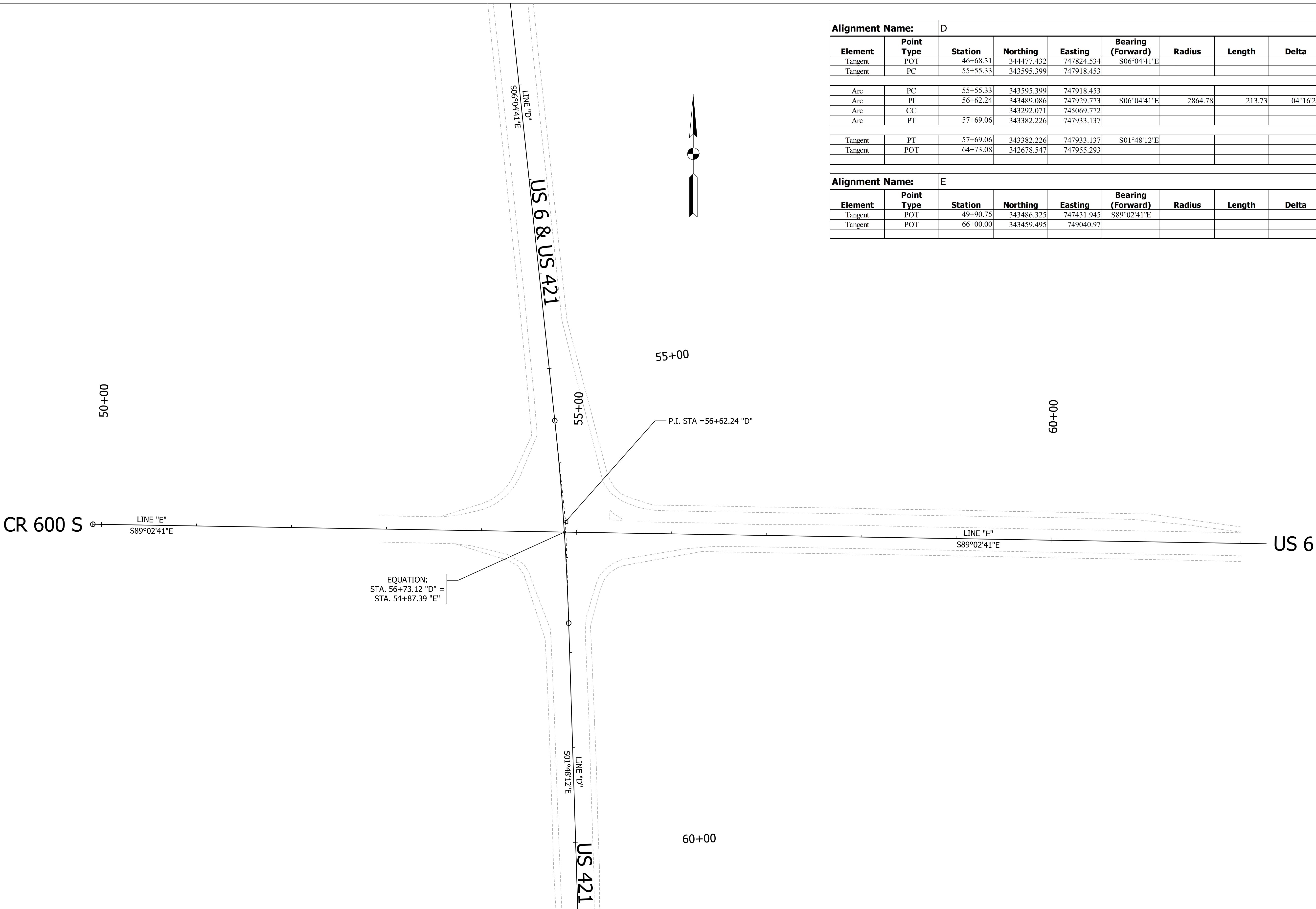
U.S.-6 & U.S.-421
LaPORTE COUNTY, INDIANA

LOCATION CONTROL ROUTE SURVEY

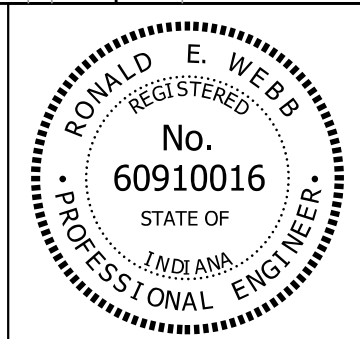
SCALE	BRIDGE FILE
as noted	N/A
ROUTE	PROJECT NO.
US-6/US-421	1702989
SURVEY BOOK	SHEETS
N/A	8 of 82
CONTRACT	COUNTY
R-43059	LaPORTE

Alignment Name:		D								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POT	46+68.31	344477.432	747824.534	S06°04'41"E					
Tangent	PC	55+55.33	343595.399	747918.453						
Arc	PC	55+55.33	343595.399	747918.453						
Arc	PI	56+62.24	343489.086	747929.773	S06°04'41"E	2864.78	213.73	04°16'28"	Right	
Arc	CC		343292.071	745069.772						
Arc	PT	57+69.06	343382.226	747933.137						
Tangent	PT	57+69.06	343382.226	747933.137	S01°48'12"E					
Tangent	POT	64+73.08	342678.547	747955.293						

Alignment Name:		E								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POT	49+90.75	343486.325	747431.945	S89°02'41"E					
Tangent	POT	66+00.00	343459.495	749040.97						



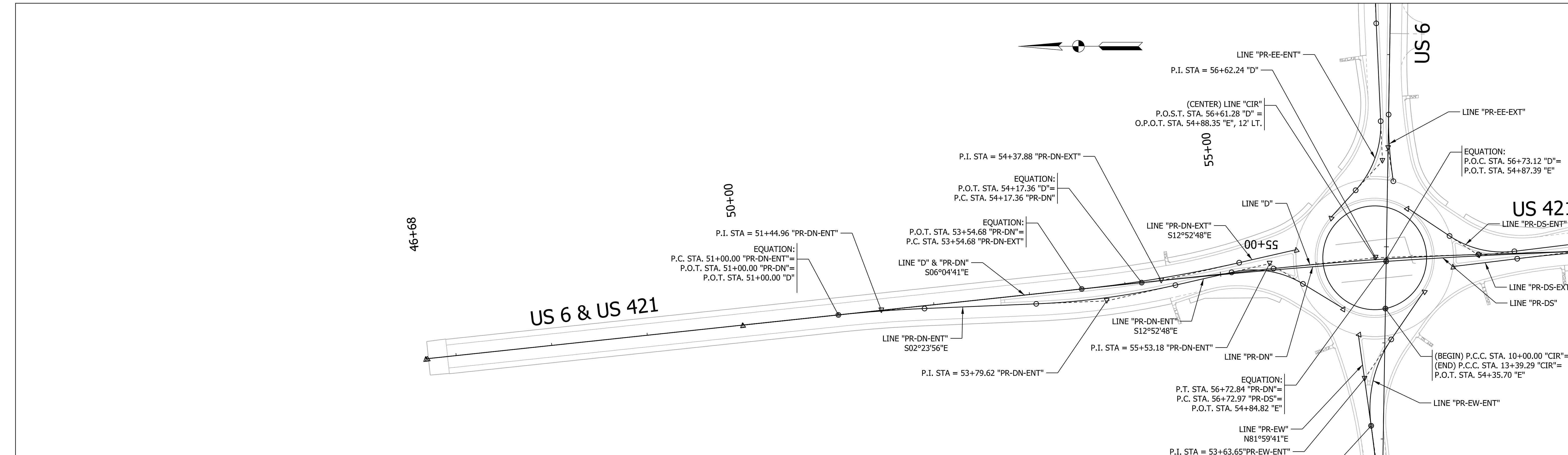
Plot: 8/24/2023 10:26:30 AM By: HuythKT Per: Transportation.tbl Model: Sheet 1



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE
 DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: JJV

INDIANA DEPARTMENT OF TRANSPORTATION
 GEOMETRIC TIE SHEET
 EXISTING ALIGNMENTS

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 9 of 82
CONTRACT R-43059	PROJECT 1702989



Alignment Name:		PR-DN								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POT	46+70.00	344475.751	747824.712						
Tangent	PC	54+17.36	343732.591	747903.844						
Arc	PC	54+17.36	343732.591	747903.844						
Arc	PI	55+45.12	343605.554	747917.371		6561.68	255.48	2°13'51"	Right	
Arc	CC		343037.83	741379.049						
Arc	PT	56+72.84	343478.087	747925.943	S03°50'50"E					

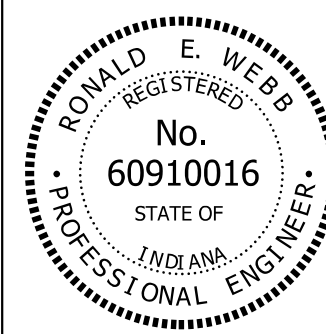
Alignment Name:		PR-DN-ENT								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POB	50+00.00	344147.606	747859.653						
Tangent	PC	51+00.00	344048.168	747870.242						
Arc	PC	51+00.00	344048.168	747870.242						
Arc	PI	51+44.96	344003.457	747875.002		1400	89.9	3°40'45"	Right	
Arc	CC		343899.934	746478.111						
Arc	PT	51+89.90	343958.531	747876.884						
Tangent	PT	51+89.90	343958.531	747876.884						
Tangent	PC	53+06.25	343842.286	747881.754						
Arc	PC	53+06.25	343842.286	747881.754						
Arc	PI	53+79.62	343768.972	747884.825		800	146.35	10°28'53"	Left	
Arc	CC		343875.77	748681.053						
Arc	PT	54+52.59	343697.441	747901.182						
Tangent	PT	54+52.59	343697.441	747901.182						
Tangent	PC	55+12.59	343638.95	747914.557						
Arc	PC	55+12.59	343638.95	747914.557						
Arc	PI	55+53.18	343599.386	747923.604		100	77.11	44°10'50"	Right	
Arc	CC		343616.659	747817.073						
Arc	PT	55+89.70	343564.707	747902.519						
Tangent	PT	55+89.70	343564.707	747902.519						
Tangent	POE	56+39.41	343522.237	747876.696						

Alignment Name:		PR-DN-EXT								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POB	50+00.00	344147.606	747859.653						
Tangent	PC	53+54.68	343794.919	747897.208						
Arc	PC	53+54.68	343794.919	747897.208						
Arc	PI	54+37.88	343712.186	747906.017		1400	166.21	6°48'08"	Left	
Arc	CC		343943.154	749289.338						
Arc	PT	55+20.89	343631.078	747924.564						
Tangent	PT	55+20.89	343631.078	747924.564						
Tangent	POE	55+81.92	343571.586	747938.167						

Alignment Name:		PR-EW-ENT								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Arc	PC	51+50.00	343483.669	747591.173						
Arc	PI	52+32.27	343482.298	747673.435		1050	164.21	8°57'38"	Left	
Arc	CC		344533.524	747608.679						
Arc	PRC	53+14.21	343493.756	747754.907						
Arc	PRC	53+14.21	343493.756	747754.907						
Arc	PI	53+63.65	343500.641	747803.867		128	94.36	42°14'22"	Right	
Arc	CC		343367.003	747772.733						
Arc	PT	54+08.58	343472.826	747844.743						
Tangent	PT	54+08.58	343472.826	747844.743						
Tangent	POE	54+69.11	343438.769	747894.793						

Alignment Name:		PR-EW								
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction	
Tangent	POT	50+00.00	343486.167	747441.193	S89°02'46"E					
Tangent	PC	51+50.00	343483.669	747591.173						
Arc	PC	51+50.00	343483.669	747591.173	S89°02'46"E					
Arc	PI	52+32.27	343482.298	747673.435		1050	164.21	08°57'38"	Left	
Arc	CC		344533.524	747608.679						
Arc	PT	53+14.21	343493.756	747754.907						
Tangent	PT	53+14.21	343493.756	747754.907	N81°59'41"E					
Tangent	POT	54+09.70	343507.053	747849.46						

Plot: 8/24/2023 10:26:41 AM By: HuyNHTK Per: Transportation.tbl Model: Sheet 2

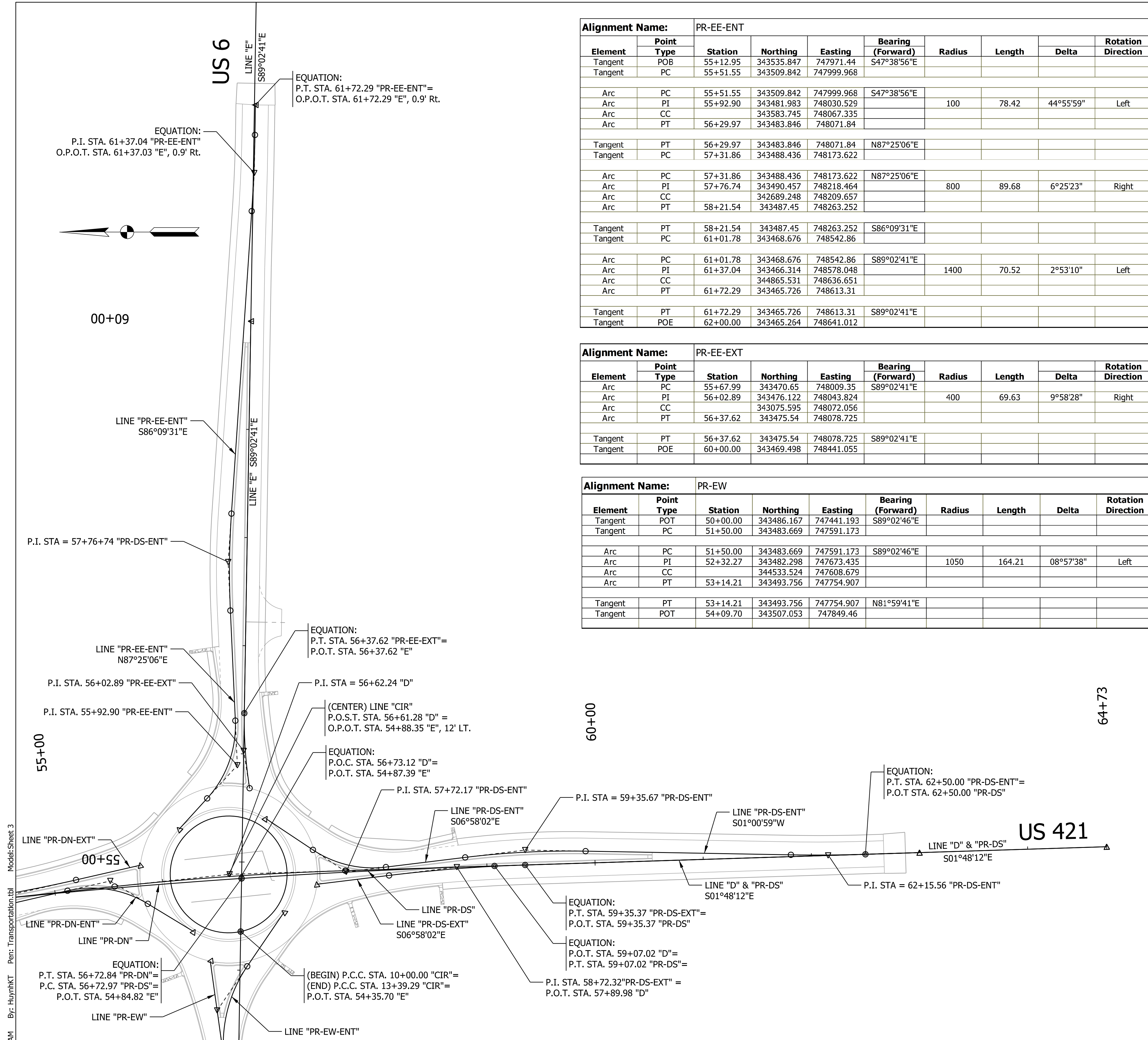


RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE
 DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: REW

INDIANA
 DEPARTMENT OF TRANSPORTATION

GEOMETRIC TIE SHEET
 LINES "PR-DN" & "PR-EW"

SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 10 of 82
CONTRACT R-43059	PROJECT 1702989



Alignment Name:		PR-EE-ENT							
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction
Tangent	POB	55+12.95	343535.847	747971.44	S47°38'56"E				
Tangent	PC	55+51.55	343509.842	747999.968					
Arc	PC	55+51.55	343509.842	747999.968	S47°38'56"E				
Arc	PI	55+92.90	343481.983	748030.529		100	78.42	44°55'59"	Left
Arc	CC		343583.745	748067.335					
Arc	PT	56+29.97	343483.846	748071.84					
Tangent	PT	56+29.97	343483.846	748071.84	N87°25'06"E				
Tangent	PC	57+31.86	343488.436	748173.622					
Arc	PC	57+31.86	343488.436	748173.622	N87°25'06"E				
Arc	PI	57+76.74	343490.457	748218.464		800	89.68	6°25'23"	Right
Arc	CC		342689.248	748209.657					
Arc	PT	58+21.54	343487.45	748263.252					
Tangent	PT	58+21.54	343487.45	748263.252	S86°09'31"E				
Tangent	PC	61+01.78	343468.676	748542.86					
Arc	PC	61+01.78	343468.676	748542.86	S89°02'41"E				
Arc	PI	61+37.04	343466.314	748578.048		1400	70.52	2°53'10"	Left
Arc	CC		344865.531	748636.651					
Arc	PT	61+72.29	343465.726	748613.31					
Tangent	PT	61+72.29	343465.726	748613.31	S89°02'41"E				
Tangent	POE	62+00.00	343465.264	748641.012					

Alignment Name:		PR-EE-EXT							
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction
Arc	PC	55+67.99	343470.65	748009.35	S89°02'41"E				
Arc	PI	56+02.89	343476.122	748043.824		400	69.63	9°58'28"	Right
Arc	CC		343075.595	748072.056					
Arc	PT	56+37.62	343475.54	748078.725					
Tangent	PT	56+37.62	343475.54	748078.725	S89°02'41"E				
Tangent	POE	60+00.00	343469.498	748441.055					

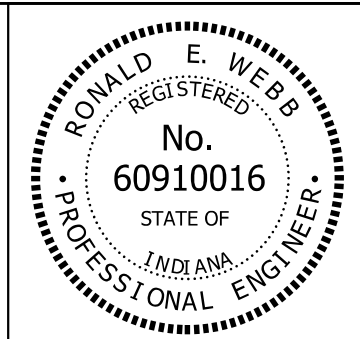
Alignment Name:		PR-EW							
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction
Tangent	POT	50+00.00	343486.167	747441.193	S89°02'46"E				
Tangent	PC	51+50.00	343483.669	747591.173					
Arc	PC	51+50.00	343483.669	747591.173	S89°02'46"E				
Arc	PI	52+32.27	343482.298	747673.435		1050	164.21	08°57'38"	Left
Arc	CC		344533.524	747608.679					
Arc	PT	53+14.21	343493.756	747754.907					
Tangent	PT	53+14.21	343493.756	747754.907	N81°59'41"E				
Tangent	POT	54+09.70	343507.053	747849.46					

Alignment Name:		PR-DS-ENT							
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction
Tangent	POB	56+82.90	343455.734	747981.325	S33°34'52"W				
Tangent	PC	57+35.23	343412.135	747952.379					
Arc	PC	57+35.23	343412.135	747952.379	S33°34'52"W				
Arc	PI	57+72.17	343381.36	747931.947		100	70.77	40°32'54"	Left
Arc	CC		343356.823	748035.689					
Arc	PT	58+06.00	343344.693	747936.428					
Tangent	PT	58+06.00	343344.693	747936.428	S06°58'02"E				
Tangent	PC	58+79.84	343271.402	747945.384					
Arc	PC	58+79.84	343271.402	747945.384	S06°58'02"E				
Arc	PI	59+35.67	343215.988	747952.156		800	111.47	7°59'01"	Right
Arc	CC		343174.361	747151.292					
Arc	PT	59+91.31	343160.171	747951.166					
Tangent	PT	59+91.31	343160.171	747951.166	S01°00'59"W				
Tangent	PC	61+81.10	342970.41	747947.799					
Arc	PC	61+81.10	342970.41	747947.799	S01°00'59"W				
Arc	PI	62+15.56	342935.96	747947.188		1400	68.9	2°49'11"	Left
Arc	CC		342945.579	749347.579					
Arc	PT	62+50.00	342901.521	747948.273					
Tangent	PT	62+50.00	342901.521	747948.273	S01°48'12"E				
Tangent	POE	63+00.00	342851.546	747949.846					

Alignment Name:		PR-DS-EXT							
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction
Tangent	POB	57+41.92	343408.534	747920.567	S06°58'02"E				
Tangent	PC	58+09.19	343341.76	747928.727					
Arc	PC	58+09.19	343341.76	747928.727	S06°58'02"E				
Arc	PI	58+72.32	343279.096	747936.384		1400	126.18	5°09'50"	Right
Arc	CC		343171.938	746539.065					
Arc	PT	59+35.37	343215.996	747938.371					
Tangent	PT	59+35.37	343215.996	747938.371	S01°48'12"E				
Tangent	POE	63+00.00	342851.546	747949.846					

Alignment Name:		PR-DS							
Element	Point Type	Station	Northing	Easting	Bearing (Forward)	Radius	Length	Delta	Rotation Direction
Arc	PC	56+72.97	343478.087	747925.943	S03°50'50"E				
Arc	PI	57+90.01	343361.31	747933.796		6561.68	234.06	2°02'38"	Right
Arc	CC		343037.83	741379.049					
Arc	PT	59+07.02	343244.326	747937.479					
Tangent	PT	59+07.02	343244.326	747937.479	S01°48'12"E				
Tangent	POT	64+73.08	342678.547	747955.293					

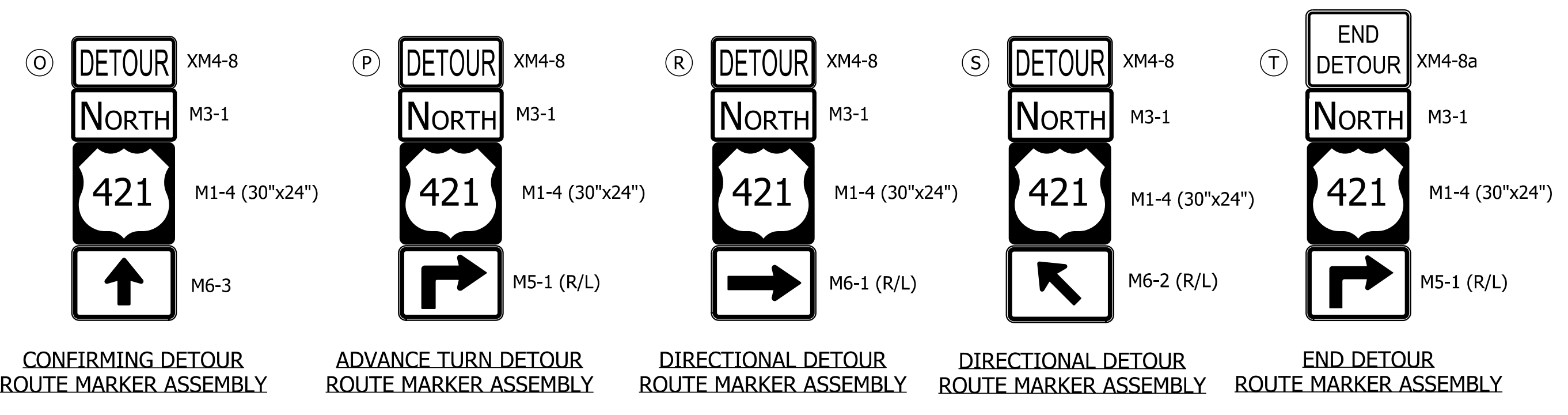
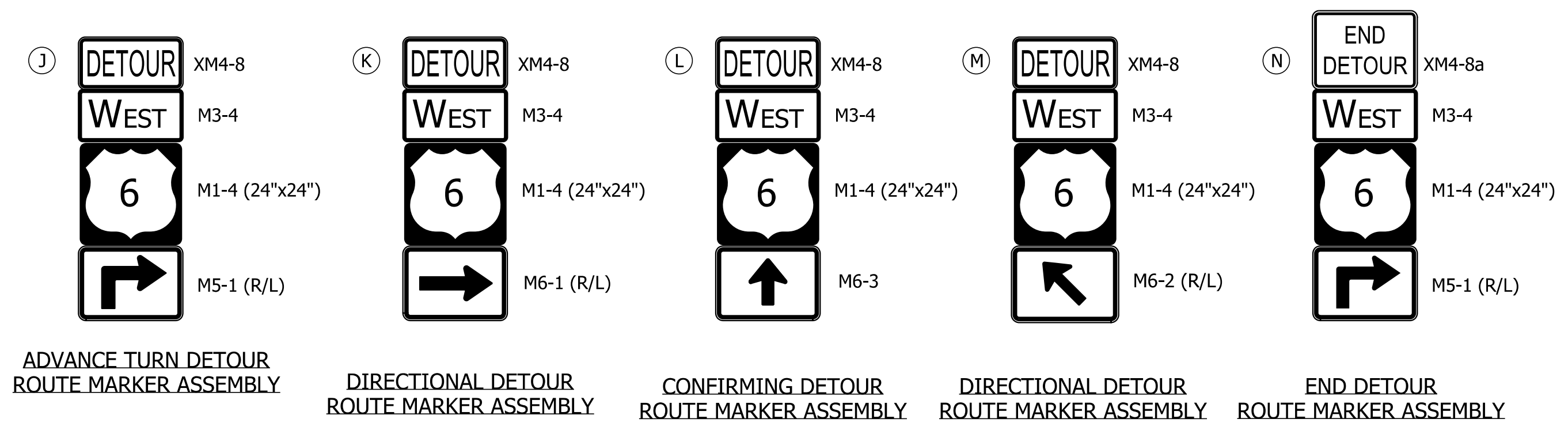
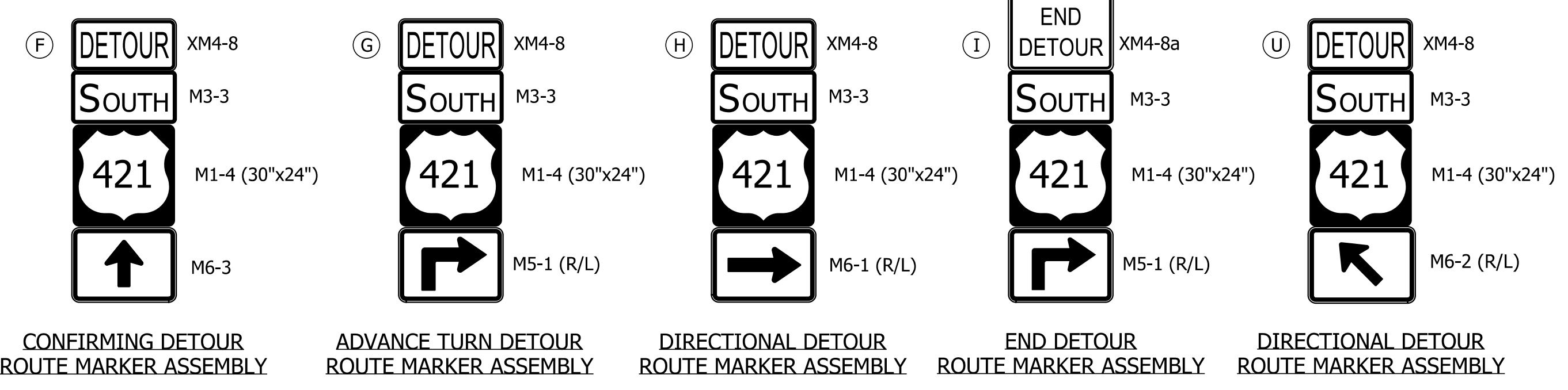
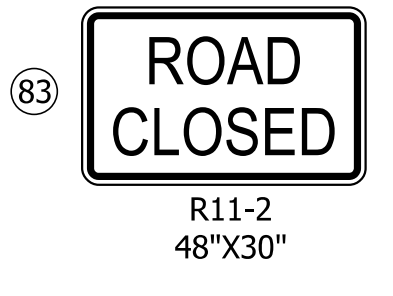
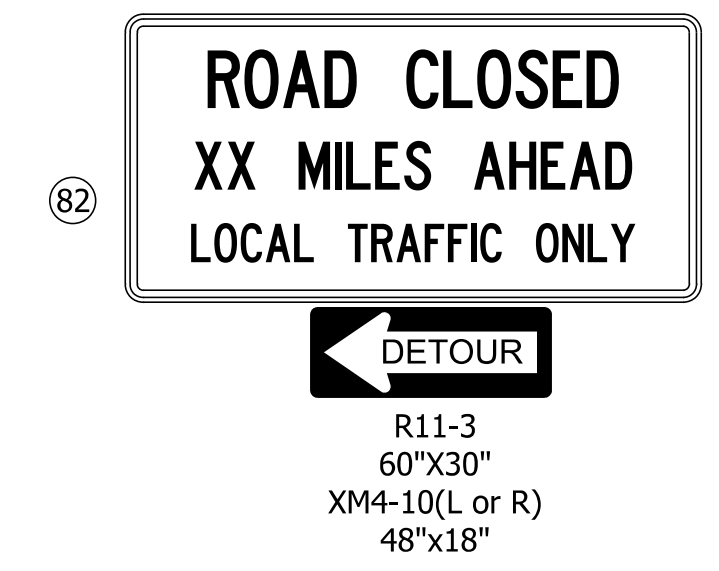
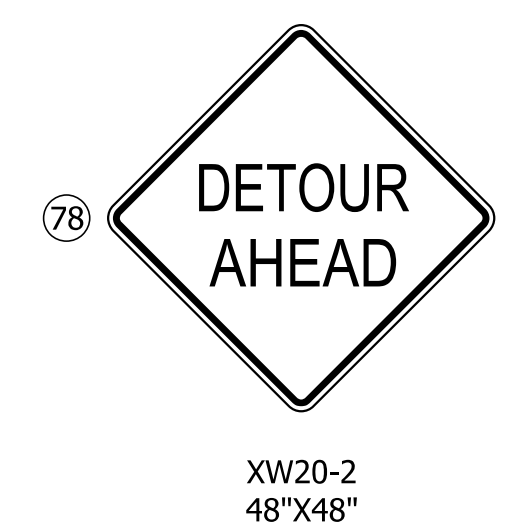
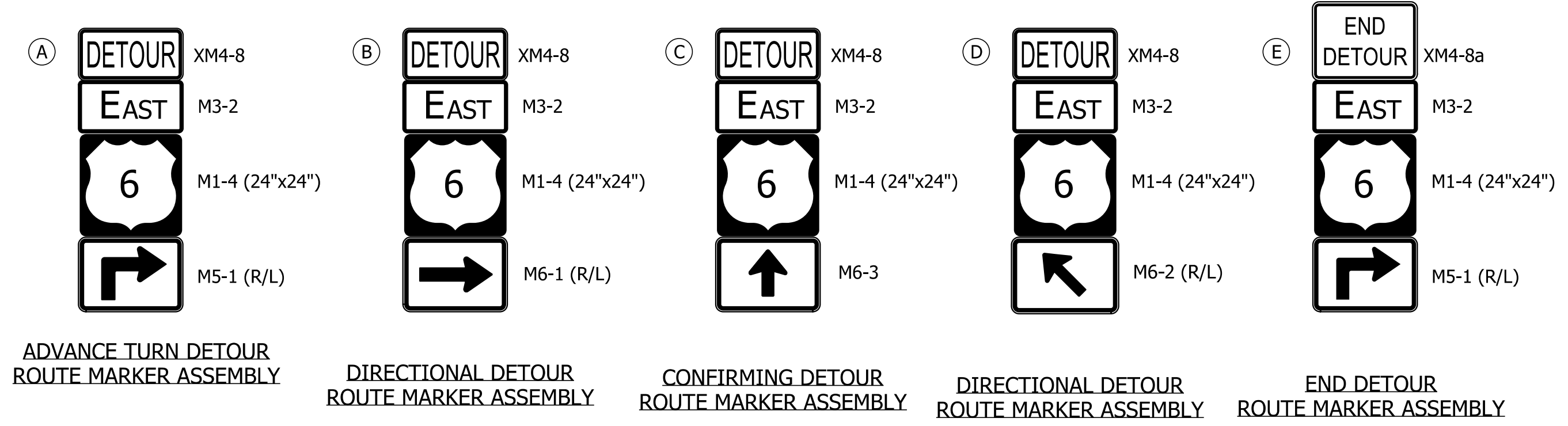
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RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE
 DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: REW

INDIANA
 DEPARTMENT OF TRANSPORTATION
 GGEOMETRIC TIE SHEET
 LINES "PR-DS" & "E"

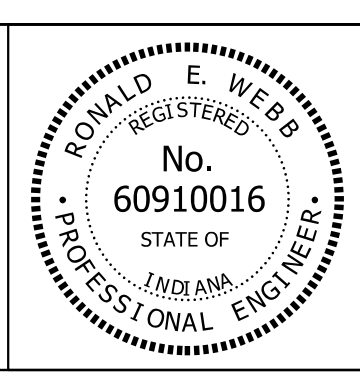
SCALE 1" = 50'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 11 of 82
CONTRACT R-43059	PROJECT 1702989



CONSTRUCTION SIGN SUMMARY TABLE						
DESCRIPTION	SIGN TYPE	GENERAL	1	2	3	MAX TOTAL
ROAD CONSTRUCTION AHEAD (XW20-1)	A		4			4
WORKSITE ADDED PENALTY (XW2-6)	A		4			4
DETOUR AHEAD (XW20-2)	A		4			4
ROAD CLOSED AHEAD (XW20-3)	A		4			4
ROAD CLOSED 1000 FT (XW20-3)	A		8			8
ROAD CLOSED 500 FT (XW20-3)	A		8			8
DETOUR AHEAD (XW20-2)	A		4			4
ROAD CLOSURE SIGN ASSEMBLY (R11-3)			3			3
ROAD CLOSURE SIGN ASSEMBLY (R11-2)			4			4
BARRICADE TYPE III-B				228		228
DETOUR ROUTE MARKER ASSEMBLY			42			42
DETOUR ROUTE MARKER ASSEMBLY - 2 ROUTES			9			9
PORTABLE CHANGEABLE MESSAGE SIGN			4			4

TEMPORARY TRAFFIC CONTROL QUANTITIES					
ITEM	UNITS	PHASE 1	PHASE 2	PHASE 3	TOTAL
CONSTRUCTION SIGN, A	EACH	36			36
ROAD CLOSURE SIGN ASSEMBLY	EACH	7			7
DETOUR ROUTE MARKER ASSEMBLY	EACH	42			42
DETOUR ROUTE MARKER ASSEMBLY - MULTIPLE ROUTES	EACH	9			9
BARRICADE TYPE III-B	LFT	228			228
PORTABLE CHANGEABLE MESSAGE SIGN	EACH	4			4

Plc8/24/2023 10:27:33 AM By: HuythKT Per: Transportation.tbl Model: Temporary Traffic Control - Sheet 1



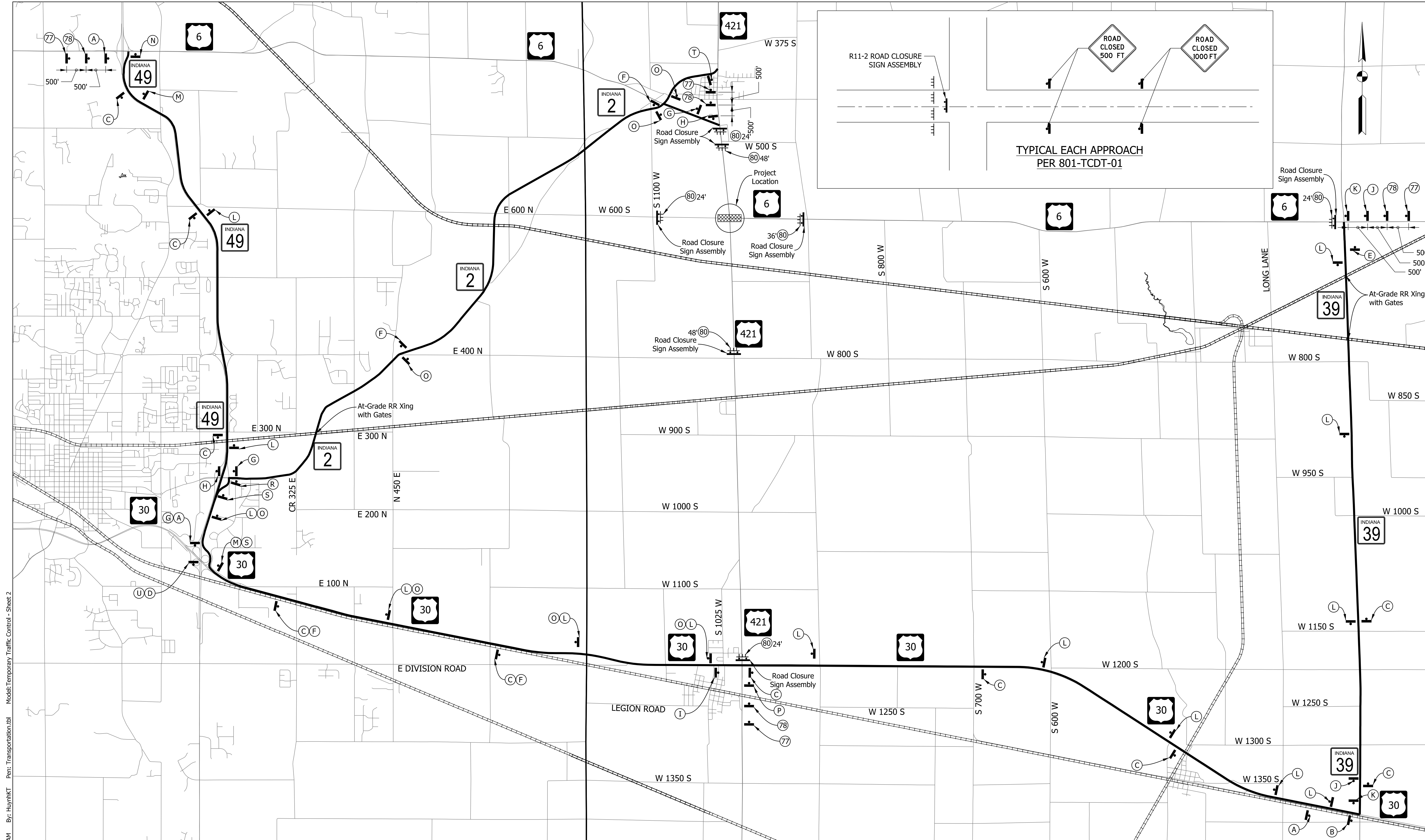
RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: MWM
CHECKED: REW CHECKED: REW

INDIANA DEPARTMENT OF TRANSPORTATION

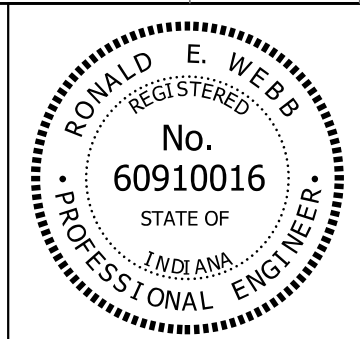
TEMPORARY TRAFFIC CONTROL PLAN

SCALE	BRIDGE FILE
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	12 of 82
CONTRACT	PROJECT
R-43059	1702989



Plot: 8/24/2023 10:28:30 AM By: HuythKT Pen: Transportation.tbl Model: Temporary Traffic Control - Sheet 2

- Legend**
- Project Location
 - Construction Sign
 - Road Closure Sign Assembly
 - Type III-B Barricades



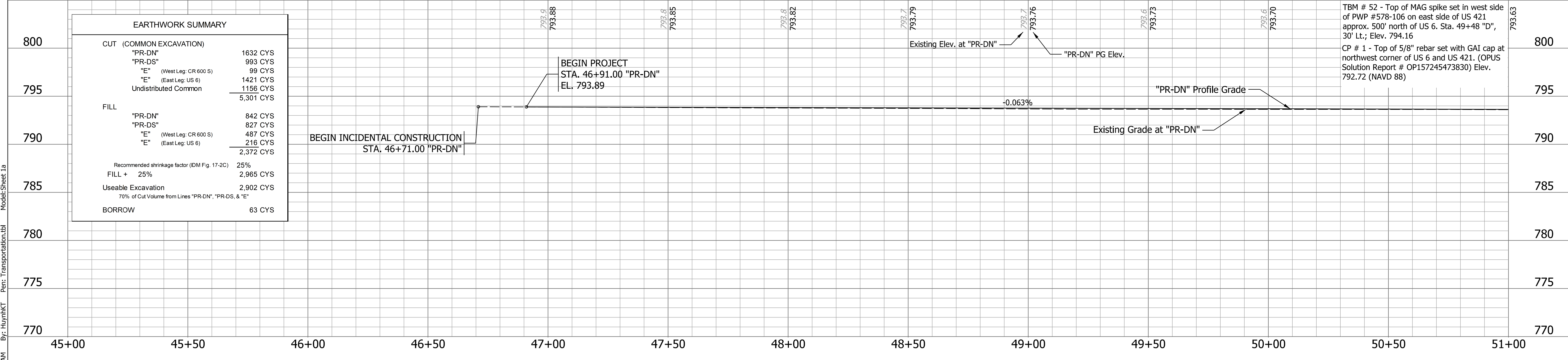
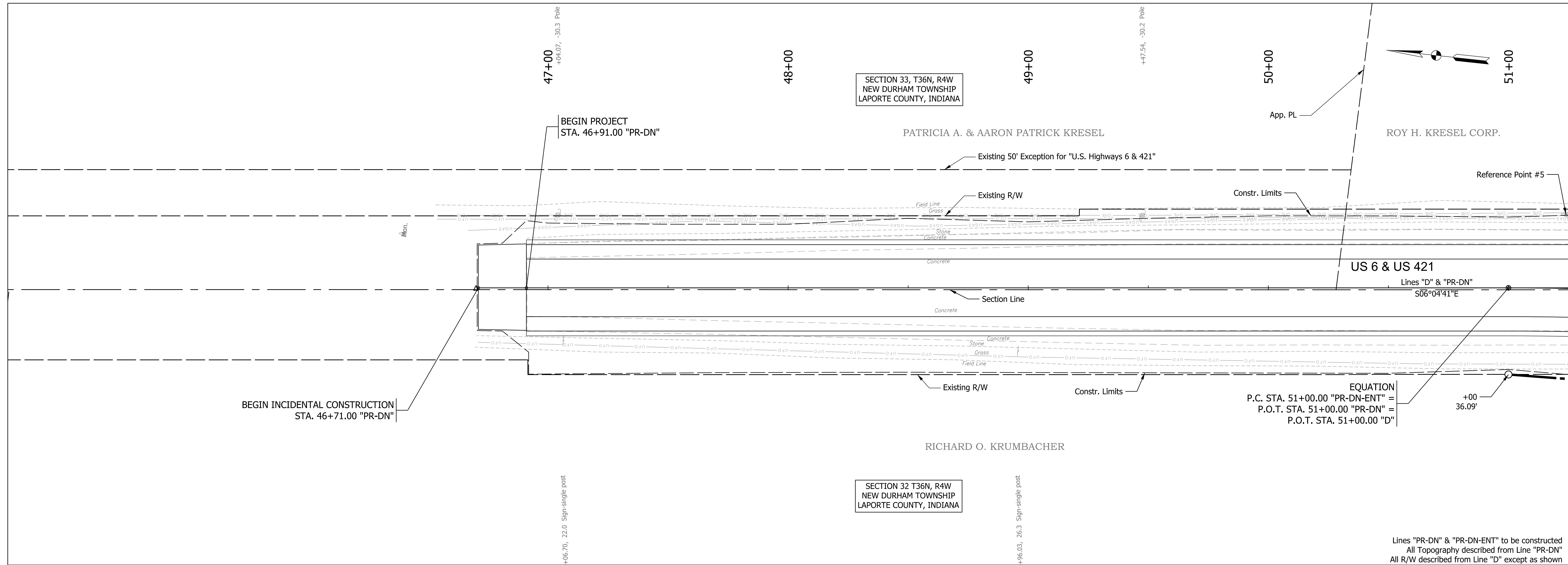
RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: MWM
 CHECKED: REW CHECKED: REW

INDIANA
DEPARTMENT OF TRANSPORTATION

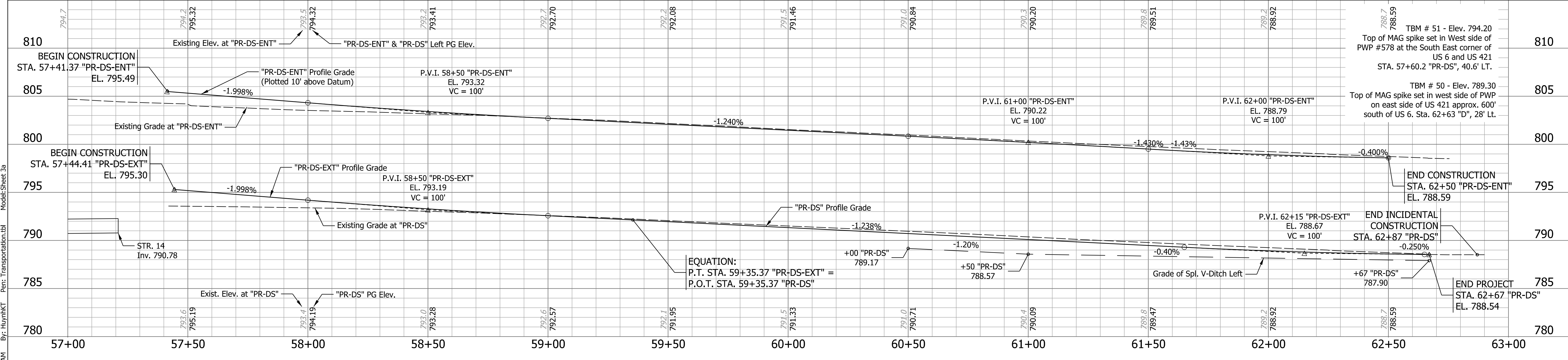
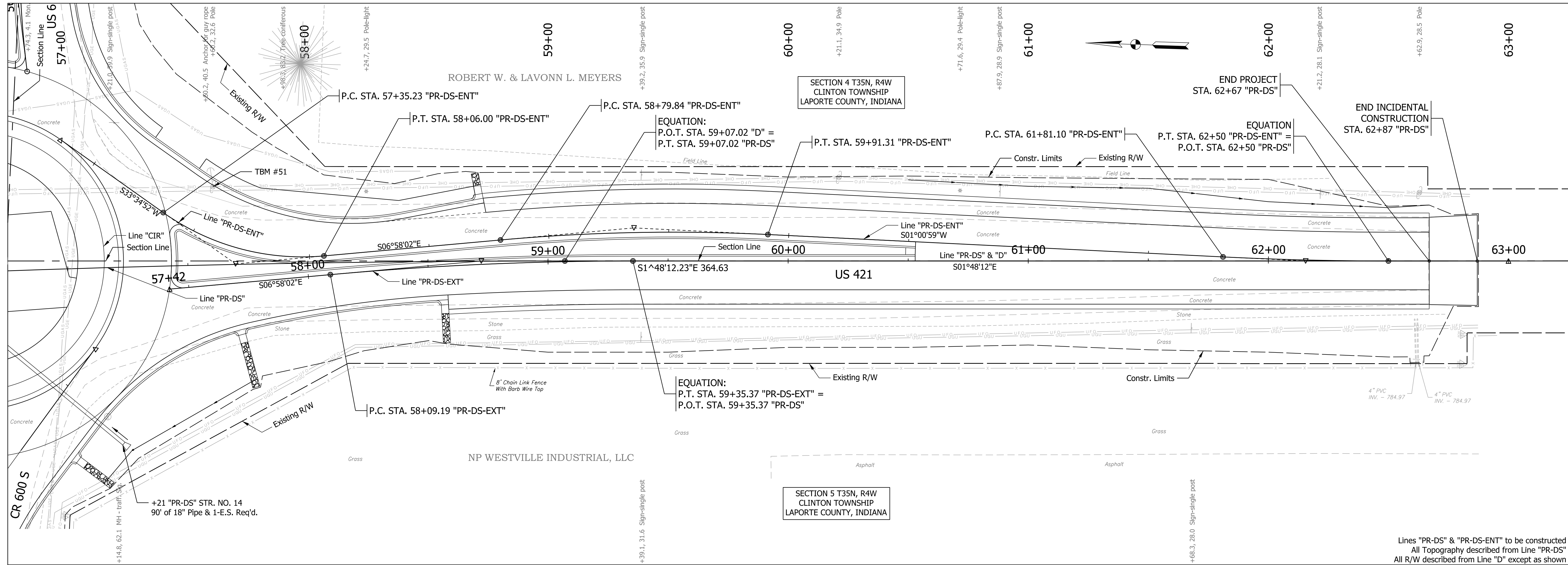
TEMPORARY TRAFFIC
CONTROL PLAN

SCALE 1" = 3000'	BRIDGE FILE
SURVEY BOOK	DESIGNATION 1702989
CONTRACT R-43059	SHEETS 13 of 82
	PROJECT 1702989



EARTHWORK SUMMARY	
CUT (COMMON EXCAVATION)	
"PR-DN"	1632 CYS
"PR-DS"	993 CYS
"E" (West Leg: CR 600 S)	99 CYS
"E" (East Leg: US 6)	1421 CYS
Undistributed Common	1156 CYS
FILL	5,301 CYS
"PR-DN"	842 CYS
"PR-DS"	827 CYS
"E" (West Leg: CR 600 S)	487 CYS
"E" (East Leg: US 6)	216 CYS
Recommended shrinkage factor (DM Fig. 17-2C)	25%
FILL + 25%	2,965 CYS
Useable Excavation	2,902 CYS
70% of Cut Volume from Lines "PR-DN", "PR-DS, & "E"	
BORROW	63 CYS

		RECOMMENDED FOR APPROVAL <i>Ronald E. Webb</i> 8-24-2023 DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
		DESIGNED: JJV DRAWN: KTH CHECKED: REW CHECKED: JJV		PLAN AND PROFILE LINES "D", "PR-DN", & "PR-DN-ENT"	VERTICAL SCALE 1" = 5'
				SURVEY BOOK	SHEETS 14 of 82
				CONTRACT R-43059	PROJECT 1702989



Lines "PR-DS" & "PR-DS-ENT" to be constructed
 All Topography described from Line "PR-DS"
 All R/W described from Line "D" except as shown

10:31:41 AM By: HuyhNT Per: Transportation.tbl Model:Sheet 2a
 Date: 8/24/2023
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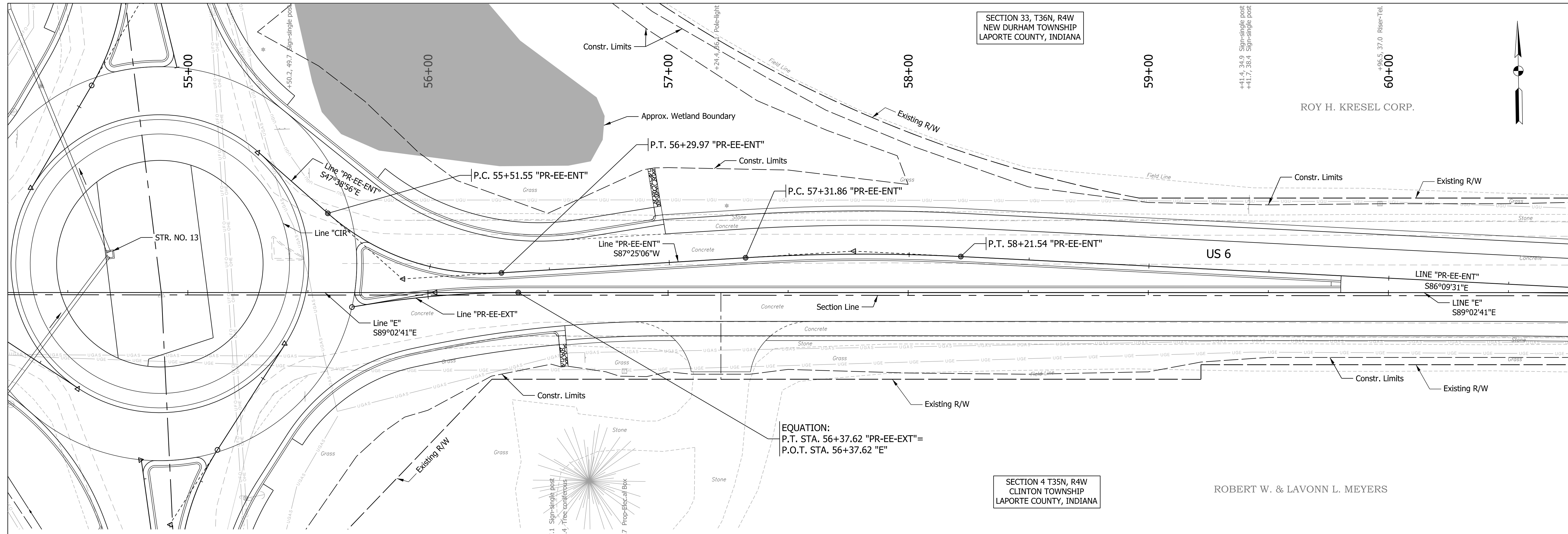
RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: JJV

INDIANA
 DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
 LINES "D", "PR-DS", & "PR-DS-ENT"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 16 of 82
CONTRACT R-43059	PROJECT 1702989



SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

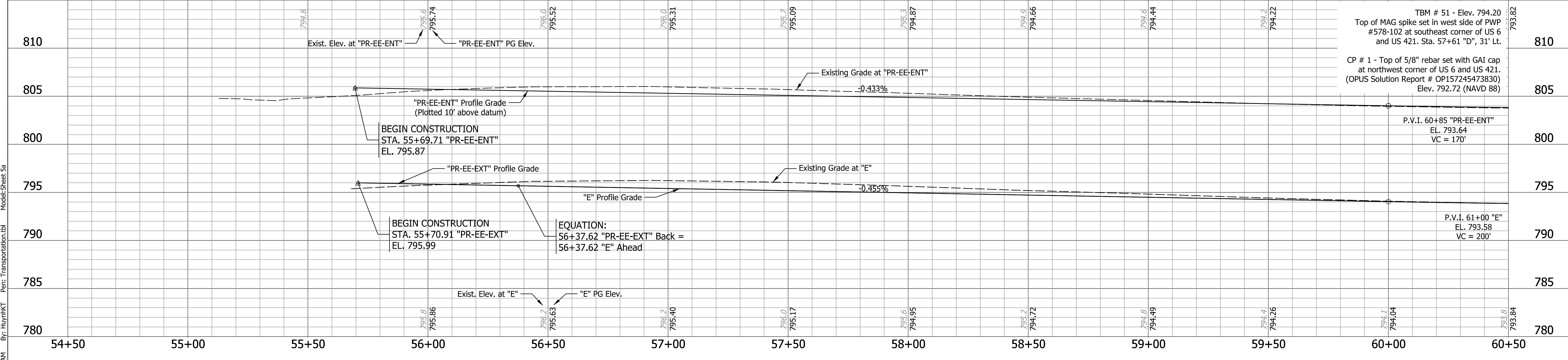
ROY H. KRESEL CORP.

SECTION 4 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

ROBERT W. & LAVONN L. MEYERS

EQUATION:
P.T. STA. 56+37.62 "PR-EE-EXT" =
P.O.T. STA. 56+37.62 "E"

Lines "PR-EE-ENT", "PR-EE-EXT", & "E" to be constructed
All Topography and R/W described from Line "E" except as shown

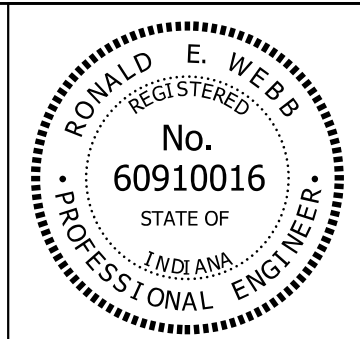


TBM # 51 - Elev. 794.20
Top of MAG spike set in west side of PWP
#578-102 at southeast corner of US 6
and US 421. Sta. 57+61 "D", 31' Lt.
Elev. 792.72 (NAVD 88)

P.V.I. 60+85 "PR-EE-ENT"
EL. 793.64
VC = 170'

P.V.I. 61+00 "E"
EL. 793.58
VC = 200'

Plot: 8/24/2023 10:33:01 AM By: HuyuhtKT Per: Transportation.tbl Model: Sheet Ea



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE
DESIGNED: JJV DRAWN: KTH
CHECKED: REW CHECKED: JJV

INDIANA
DEPARTMENT OF TRANSPORTATION
PLAN AND PROFILE
LINES "E", "PR-EE-EXT", & "PR-EE-ENT"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 18 of 82
CONTRACT R-43059	PROJECT 1702989

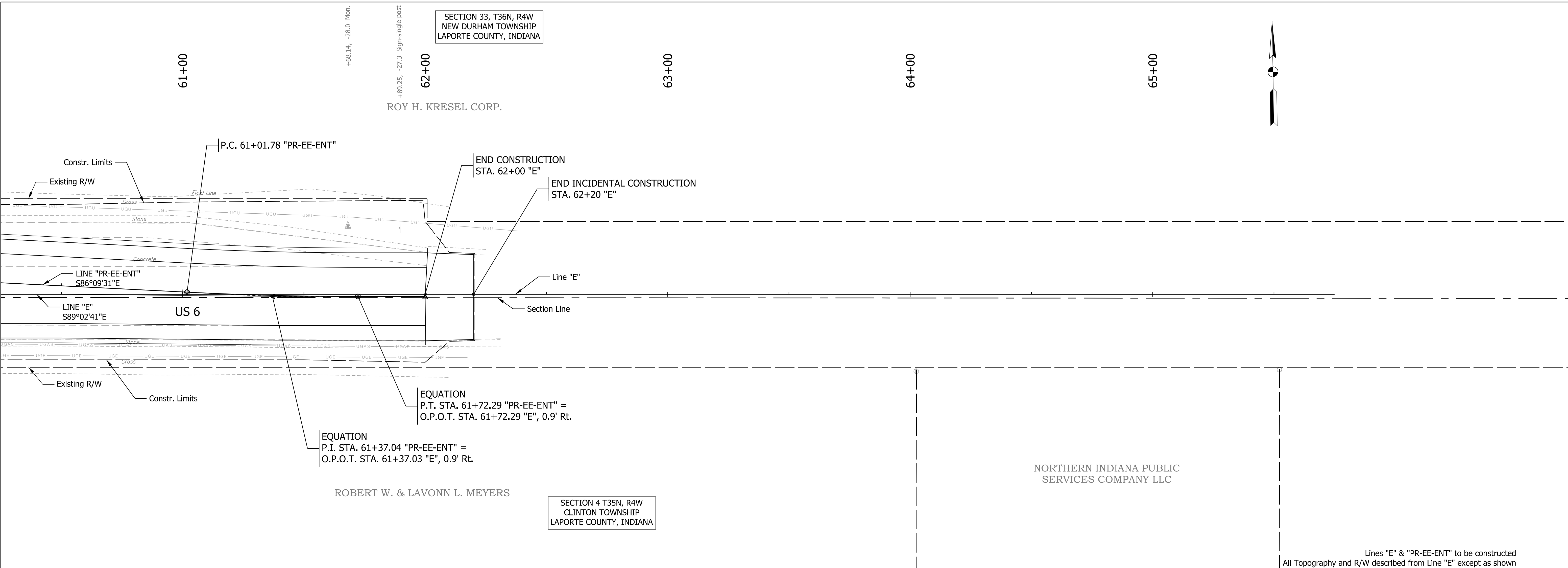
SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

ROY H. KRESEL CORP.

ROBERT W. & LAVONN L. MEYERS

SECTION 4 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

NORTHERN INDIANA PUBLIC
SERVICES COMPANY LLC

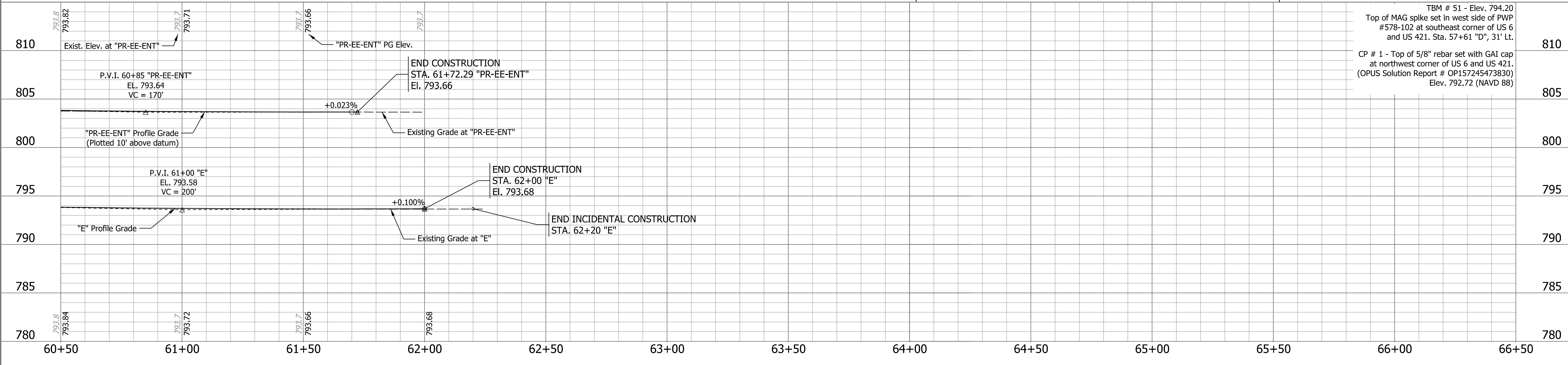


EQUATION
P.I. STA. 61+37.04 "PR-EE-ENT" =
O.P.O.T. STA. 61+37.03 "E", 0.9' Rt.

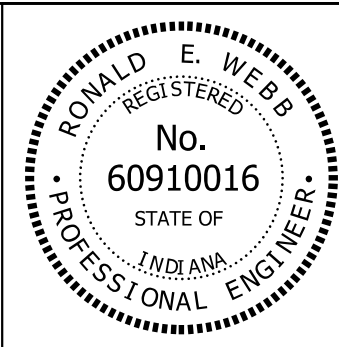
EQUATION
P.T. STA. 61+72.29 "PR-EE-ENT" =
O.P.O.T. STA. 61+72.29 "E", 0.9' Rt.

Lines "E" & "PR-EE-ENT" to be constructed
All Topography and R/W described from Line "E" except as shown

TBM # 51 - Elev. 794.20
Top of MAG spike set in west side of PWP
#578-102 at southeast corner of US 6
and US 421. Sta. 57+61 "D", 31' Lt.
CP # 1 - Top of 5/8" rebar set with GAI cap
at northwest corner of US 6 and US 421.
(OPUS Solution Report # OP157245473830)
Elev. 792.72 (NAVD 88)



Plot: 8/26/2023 2:52:06 PM By: HuythKT Per: Transportation.tbl Model: Sheet Ga



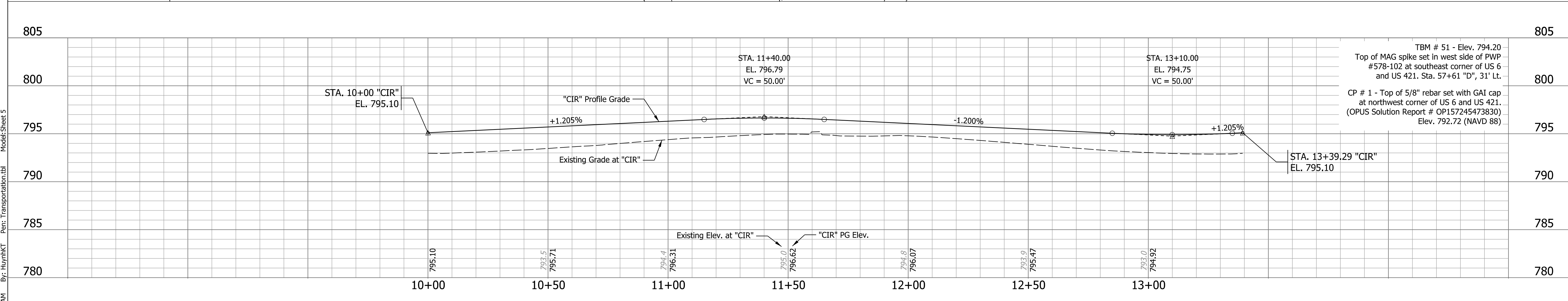
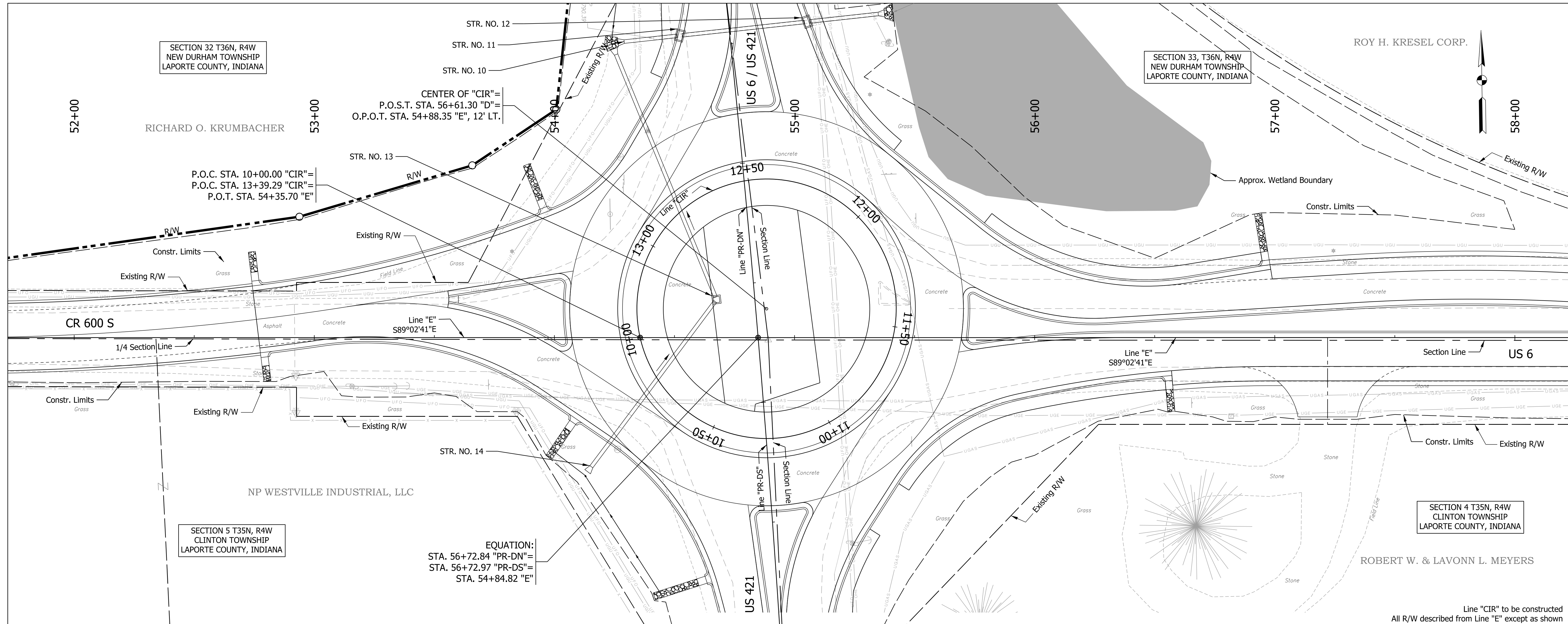
RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: KTH
CHECKED: REW CHECKED: JJV

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
LINES "E" & "PR-EE-ENT"

HORIZONTAL SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 19 of 82
CONTRACT R-43059	PROJECT 1702989



By: HuythKT Per: Transportation.tbl Model: Sheet 5
 Date: 8/24/2023 10:33:54 AM
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RECOMMENDED FOR APPROVAL
 RONALD E. WEBB
 No. 60910016
 STATE OF INDIANA
 PROFESSIONAL ENGINEER

DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: JJV

8-24-2023 DATE

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
 LINE "CIR"

SCALE 1" = 20'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 20 of 82
CONTRACT R-43059	PROJECT 1702989

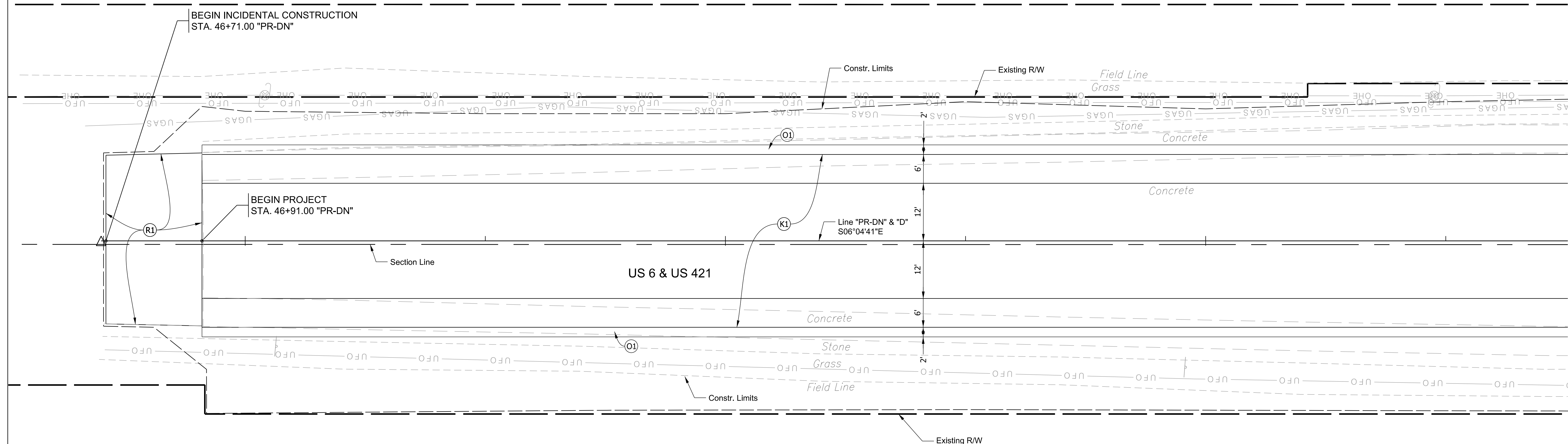
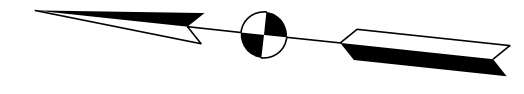
47+00

48+00

49+00

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

PATRICIA A. & AARON PATRICK KRESEL



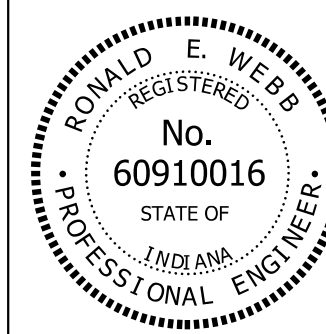
RICHARD O. KRUMBACHER

SECTION 32 T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

LEGEND

- (17) Concrete Curb and Gutter, Type B
- (18) Concrete Curb and Gutter, Type B, Modified
- (19) Concrete Curb and Gutter, Roundabout
- (22) Concrete Center Curb, Type B
- (23) Combined Curb and Gutter Turnout w/Concrete Gutter, Type A
- (26) Mulched Seeding, Type R
- (A1) Truck Apron
PCCP, 10 in. w/ Transverse D-1 Joints @ 15 ft. spacing, on
14 in. of Compacted Aggregate, No. 53, on
Subgrade Treatment Type IBC
- (A2) PCCP, 10 in., on
15 in. Compacted Aggregate, No. 53, on
Subgrade Treatment Type IBC
- (12) Geocell Confinement System:
2 in. Infill Topsoil-Aggregate Mix, on
6 in. Geocell Confinement System, on
4 in. of Compacted Aggregate, No. 53, on
Geotextile for Pavement, Type 2B, on
Subgrade Treatment Type III

- (K1) Full Depth HMA, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on
330 lbs/syd QC/QA HMA, 4, 76, Intermediate, 12.5mm, on
330 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on
440 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on
300 lbs/syd QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on
6 in. of Compacted Aggregate, No. 53, on
Subgrade Treatment Type IBC
- (K2) HMA for Approaches, Type B, consisting of:
165 lb/syd HMA Surface, Type B, on
495 lb/syd HMA Intermediate, Type B, on
4 in. of Compacted Aggregate, No. 53, on
Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O1) 21 in. of Compacted Aggregate, No. 53
- (O2) 10 in. of Compacted Aggregate, No. 53
- (R1) HMA Resurfacing Mainline, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on
2" Asphalt Surface Milling
- (R2) HMA Resurfacing Approaches, consisting of:
165 lb/syd HMA Surface, Type B, on
1 1/2" Asphalt Surface Milling



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: KTH
CHECKED: REW CHECKED: JJV

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
47+00 TO 50+50 LINES "D" & "PR-DN"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 21 of 82
CONTRACT R-43059	PROJECT 1702989

Plot: 8/24/2023 10:34:51 AM By: HuythKT Per: Transportation.tbl Model: Sheet 1

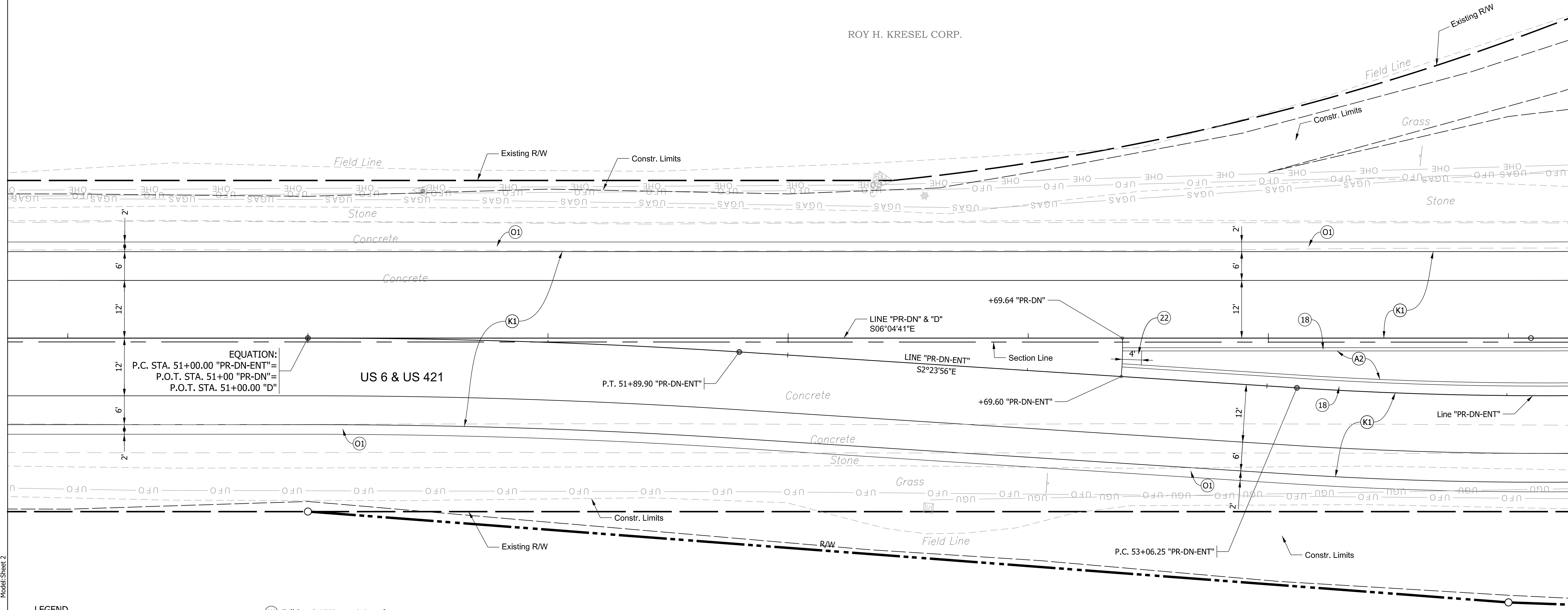
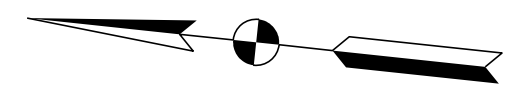
51+00

52+00

53+00

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

ROY H. KRESEL CORP.



EQUATION:
P.C. STA. 51+00.00 "PR-DN-ENT"
P.O.T. STA. 51+00 "PR-DN"
P.O.T. STA. 51+00.00 "D"

US 6 & US 421

P.T. 51+89.90 "PR-DN-ENT"

LINE "PR-DN-ENT"
S2°23'56"E

+69.64 "PR-DN"

+69.60 "PR-DN-ENT"

P.C. 53+06.25 "PR-DN-ENT"

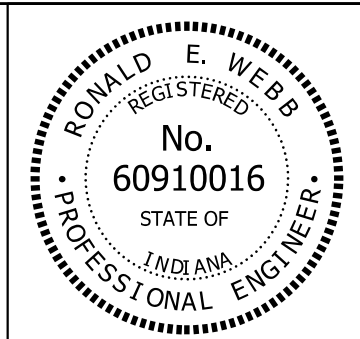
Pic: 8/24/2023 10:35:03 AM By: HuythKT Per: Transportation.tbl Model: Sheet 2

- LEGEND**
- (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Roundabout
 - (22) Concrete Center Curb, Type B
 - (23) Combined Curb and Gutter Turnout w/Concrete Gutter, Type A
 - (26) Mulched Seeding, Type R
 - (A1) Truck Apron
PCCP, 10 in. w/ Transverse D-1 Joints @ 15 ft. spacing, on
14 in. of Compacted Aggregate, No. 53, on
Subgrade Treatment Type IBC
 - (A2) PCCP, 10 in., on
15 in. Compacted Aggregate, No. 53, on
Subgrade Treatment Type IBC
 - (12) Geocell Confinement System:
2 in. Infill Topsoil-Aggregate Mix, on
6 in. Geocell Confinement System, on
4 in. of Compacted Aggregate, No. 53, on
Geotextile for Pavement, Type 2B, on
Subgrade Treatment Type III

- (K1) Full Depth HMA, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on
330 lbs/syd QC/QA HMA, 4, 76, Intermediate, 12.5mm, on
330 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on
440 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on
300 lbs/syd QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on
6 in. of Compacted Aggregate, No. 53, on
Subgrade Treatment Type IBC
- (K2) HMA for Approaches, Type B, consisting of:
165 lb/syd HMA Surface, Type B, on
495 lb/syd HMA Intermediate, Type B, on
4 in. of Compacted Aggregate, No. 53, on
Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O1) 21 in. of Compacted Aggregate, No. 53
- (O2) 10 in. of Compacted Aggregate, No. 53
- (R1) HMA Resurfacing Mainline, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on
2" Asphalt Surface Milling
- (R2) HMA Resurfacing Approaches, consisting of:
165 lb/syd HMA Surface, Type B, on
1 1/2" Asphalt Surface Milling

RICHARD O. KRUMBACHER

SECTION 32 T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE

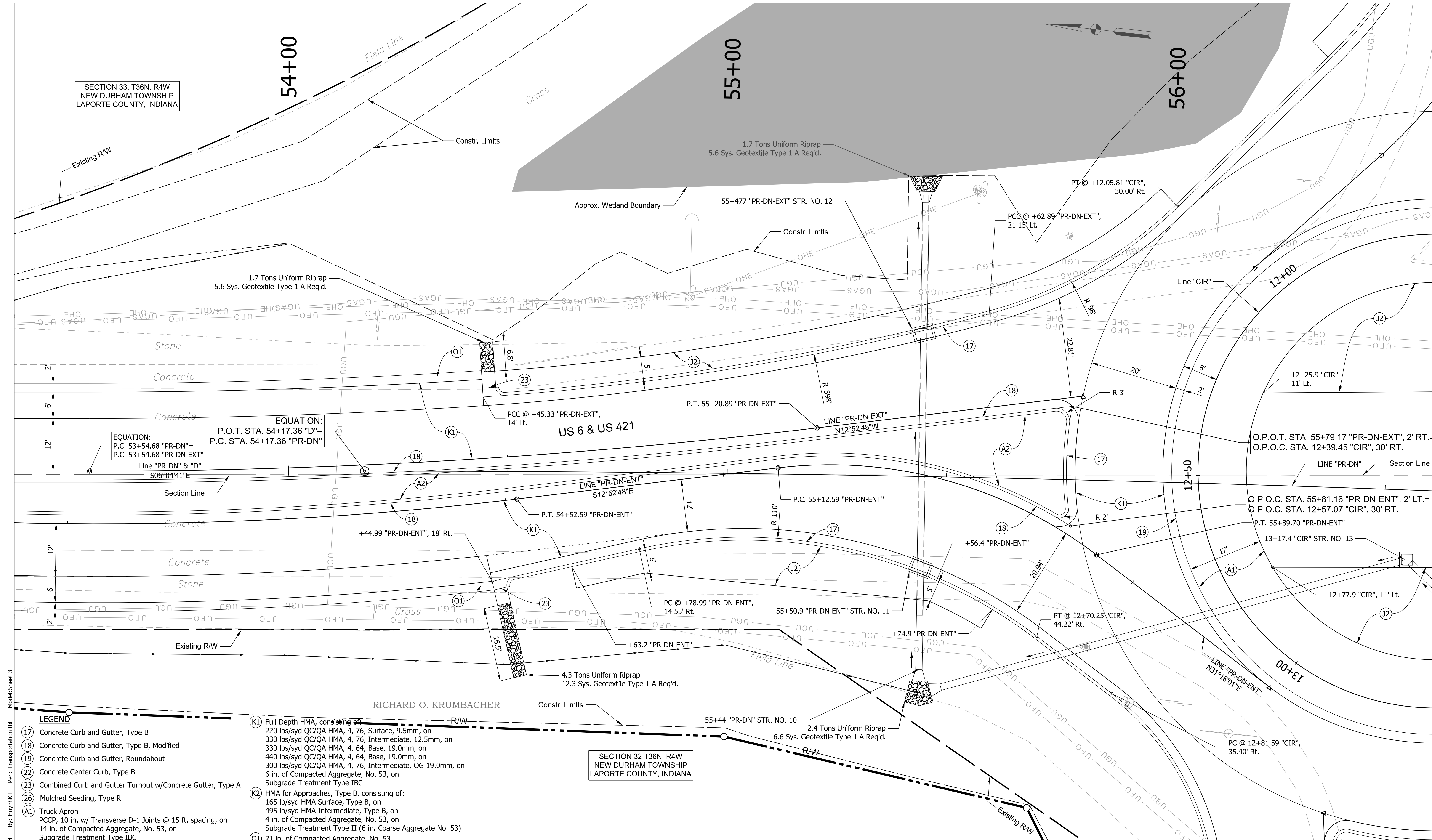
DESIGNED: JJV DRAWN: KTH
CHECKED: REW CHECKED: JJV

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
50+50 TO 53+50 LINES "D" & "PR-DN"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 22 of 82
CONTRACT R-43059	PROJECT 1702989

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

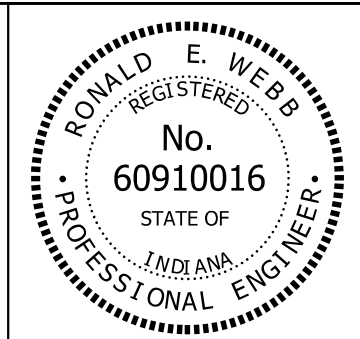


Model: Sheet 3
 Per: Transportation.tbl
 By: HuynhKT
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 Plot: 8/24/2023
 Z:\Infra\2019\190007.00 - INDOT LaPorte US 6 RAB\CAD\Production Drawings\D190007.00 - Construction Detail.dgn

- LEGEND**
- (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Roundabout
 - (22) Concrete Center Curb, Type B
 - (23) Combined Curb and Gutter Turnout w/Concrete Gutter, Type A
 - (26) Mulched Seeding, Type R
 - (A1) Truck Apron
PCCP, 10 in. w/ Transverse D-1 Joints @ 15 ft. spacing, on 14 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (A2) PCCP, 10 in., on 15 in. Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (J2) Geocell Confinement System:
2 in. Infill Topsoil-Aggregate Mix, on 6 in. Geocell Confinement System, on 4 in. of Compacted Aggregate, No. 53, on Geotextile for Pavement, Type 2B, on Subgrade Treatment Type III

- (K1) Full Depth HMA, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 330 lbs/syd QC/QA HMA, 4, 76, Intermediate, 12.5mm, on 330 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 440 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 300 lbs/syd QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on 6 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
- (K2) HMA for Approaches, Type B, consisting of:
165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O1) 21 in. of Compacted Aggregate, No. 53
- (O2) 10 in. of Compacted Aggregate, No. 53
- (R1) HMA Resurfacing Mainline, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 2" Asphalt Surface Milling
- (R2) HMA Resurfacing Approaches, consisting of:
165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling

SECTION 32 T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA



RECOMMENDED FOR APPROVAL
Ronald E. Webb
 DESIGN ENGINEER
 8-24-2023 DATE

DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: JJV

INDIANA
 DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
 53+50 TO 56+50 LINES "D",
 "PR-DN-ENT" & "PR-DN-EXT"

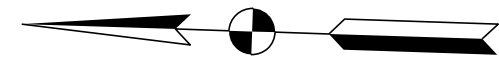
SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 23 of 82
CONTRACT R-43059	PROJECT 1702989

57+00

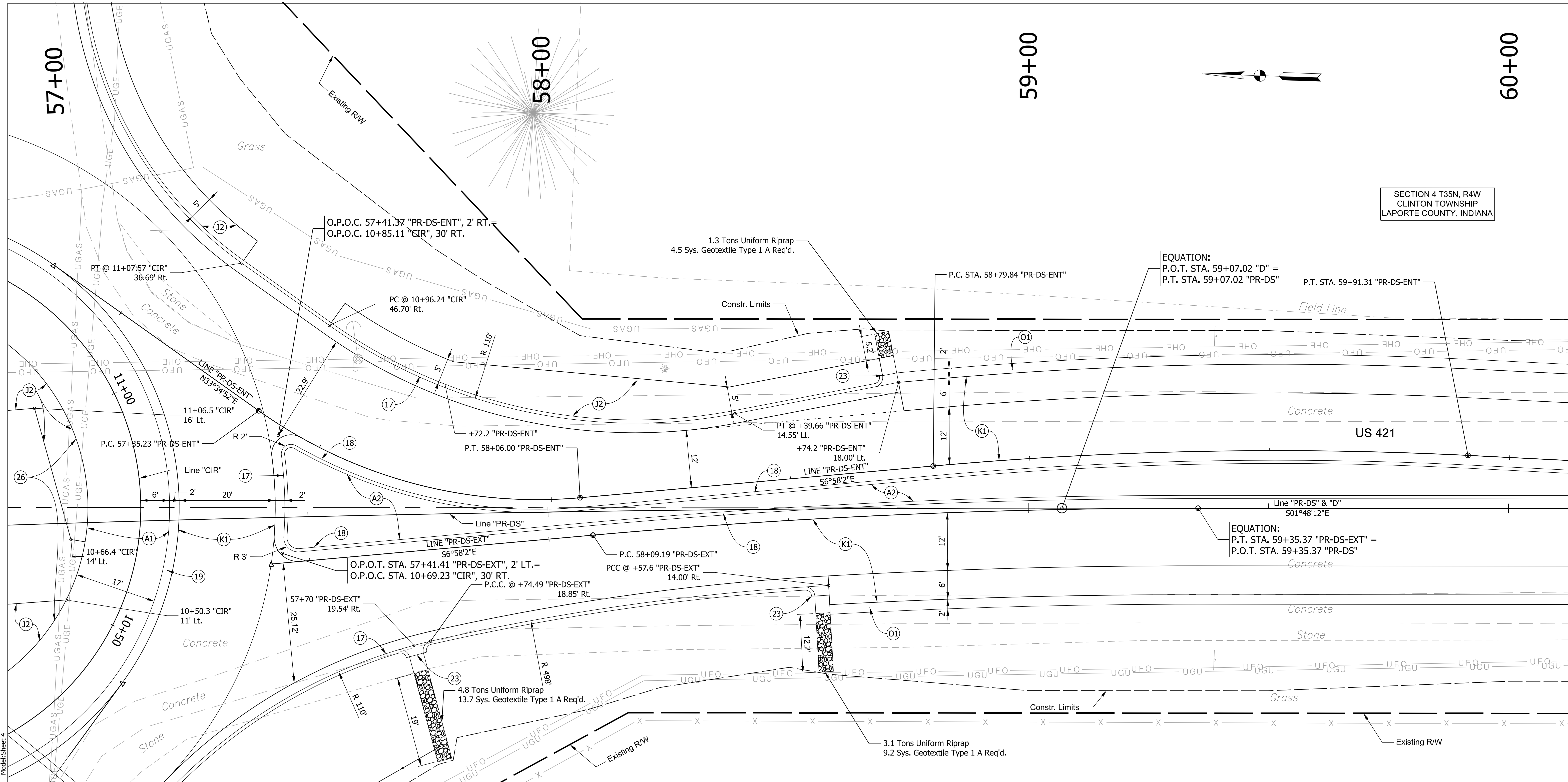
58+00

59+00

60+00



SECTION 4 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA



EQUATION:
P.O.T. STA. 59+07.02 "D" =
P.T. STA. 59+07.02 "PR-DS" P.T. STA. 59+91.31 "PR-DS-ENT"

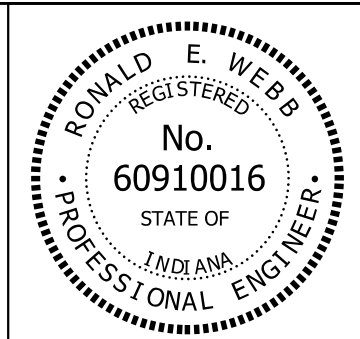
EQUATION:
P.T. STA. 59+35.37 "PR-DS-EXT" =
P.O.T. STA. 59+35.37 "PR-DS"

SECTION 5 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

- LEGEND**
- (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Roundabout
 - (22) Concrete Center Curb, Type B
 - (23) Combined Curb and Gutter Turnout w/Concrete Gutter, Type A
 - (26) Mulched Seeding, Type R
 - (A1) Truck Apron
PCCP, 10 in. w/ Transverse D-1 Joints @ 15 ft. spacing, on 14 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (A2) PCCP, 10 in., on 15 in. Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (J2) Geocell Confinement System:
2 in. Infill Topsoil-Aggregate Mix, on 6 in. Geocell Confinement System, on 4 in. of Compacted Aggregate, No. 53, on Geotextile for Pavement, Type 2B, on Subgrade Treatment Type III

- (K1) Full Depth HMA, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 330 lbs/syd QC/QA HMA, 4, 76, Intermediate, 12.5mm, on 330 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 440 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 300 lbs/syd QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on 6 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
- (K2) HMA for Approaches, Type B, consisting of:
165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O1) 21 in. of Compacted Aggregate, No. 53
- (O2) 10 in. of Compacted Aggregate, No. 53
- (R1) HMA Resurfacing Mainline, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 2" Asphalt Surface Milling
- (R2) HMA Resurfacing Approaches, consisting of:
165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling

Plot: 8/24/2023 10:35:46 AM By: HuyuNKT Per: Transportation.tbl Model: Sheet: 4



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: KTH
CHECKED: REW CHECKED: JJV

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
57+00 TO 60+00 LINES "D", "PR-DS",
"PR-DS-ENT" & "PR-DS-EXT"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 24 of 82
CONTRACT R-43059	PROJECT 1702989

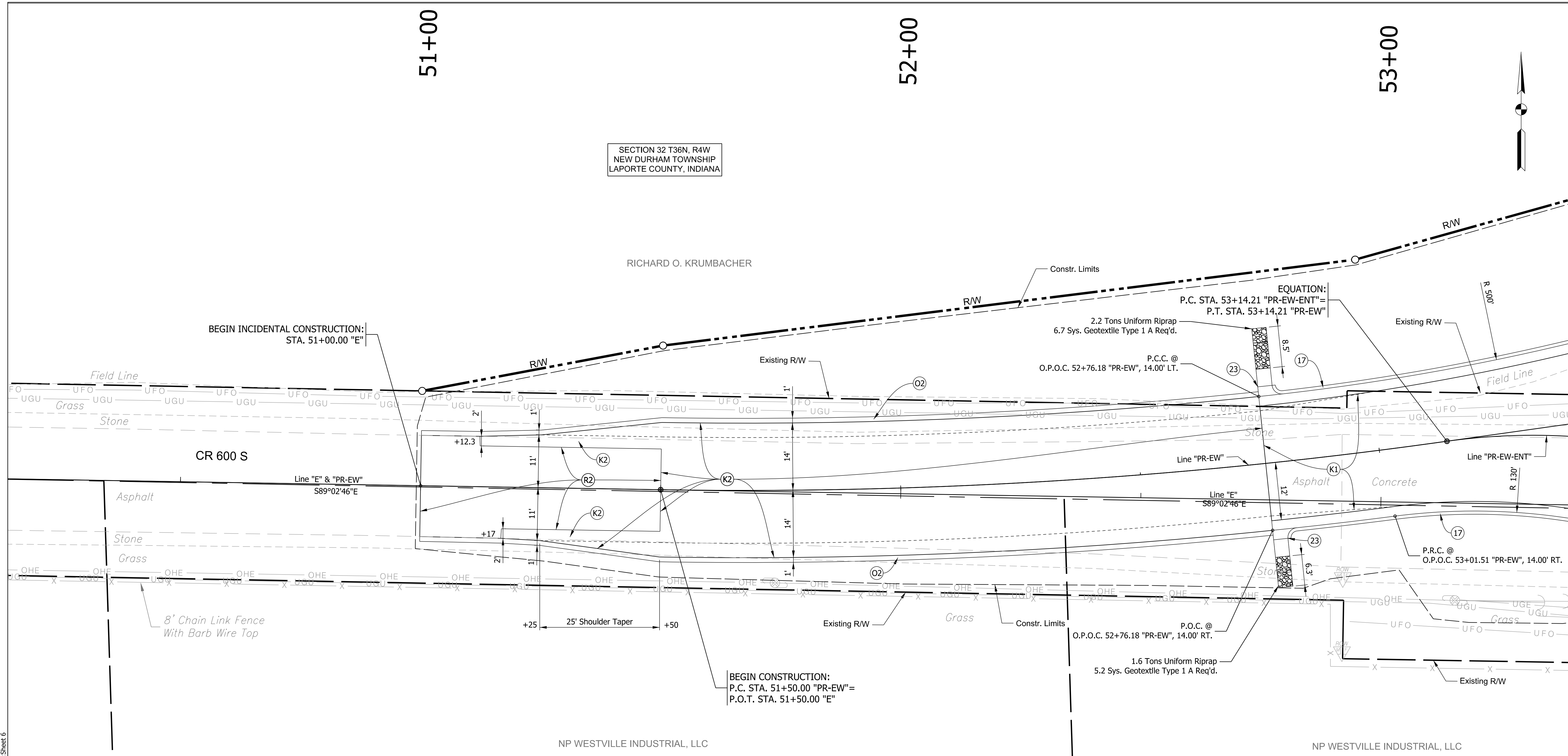
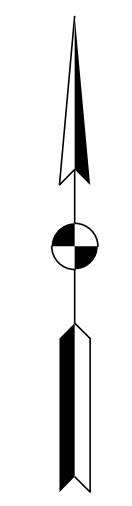
51+00

52+00

53+00

SECTION 32 T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

RICHARD O. KRUMBACHER



BEGIN INCIDENTAL CONSTRUCTION:
STA. 51+00.00 "E"

BEGIN CONSTRUCTION:
P.C. STA. 51+50.00 "PR-EW"=
P.O.T. STA. 51+50.00 "E"

EQUATION:
P.C. STA. 53+14.21 "PR-EW-ENT"=
P.T. STA. 53+14.21 "PR-EW"

P.R.C. @
O.P.O.C. 53+01.51 "PR-EW", 14.00' RT.

O.P.O.C. 52+76.18 "PR-EW", 14.00' RT.
P.O.C. @
1.6 Tons Uniform Riprap
5.2 Sys. Geotextile Type 1 A Req'd.

NP WESTVILLE INDUSTRIAL, LLC

NP WESTVILLE INDUSTRIAL, LLC

SECTION 5 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

- LEGEND**
- (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Roundabout
 - (22) Concrete Center Curb, Type B
 - (23) Combined Curb and Gutter Turnout w/Concrete Gutter, Type A
 - (26) Mulched Seeding, Type R
 - (A1) Truck Apron
PCCP, 10 in. w/ Transverse D-1 Joints @ 15 ft. spacing, on 14 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (A2) PCCP, 10 in., on 15 in. Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (12) Geocell Confinement System:
2 in. Infill Topsoil-Aggregate Mix, on 6 in. Geocell Confinement System, on 4 in. of Compacted Aggregate, No. 53, on Geotextile for Pavement, Type 2B, on Subgrade Treatment Type III

- (K1) Full Depth HMA, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 330 lbs/syd QC/QA HMA, 4, 76, Intermediate, 12.5mm, on 330 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 440 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 300 lbs/syd QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on 6 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
- (K2) HMA for Approaches, Type B, consisting of:
165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O1) 21 in. of Compacted Aggregate, No. 53
- (O2) 10 in. of Compacted Aggregate, No. 53
- (R1) HMA Resurfacing Mainline, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 2" Asphalt Surface Milling
- (R2) HMA Resurfacing Approaches, consisting of:
165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: KTH
CHECKED: REW CHECKED: JJV

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
50+50 TO 53+50 LINES "E",
"PR-EW", & "PR-EW-ENT"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 26 of 82
CONTRACT R-43059	PROJECT 1702989

Model: Sheet 6
Pen: Transportation.tbl
By: HyunhKT
Date: 8/24/2023 10:36:13 AM
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SECTION 32 T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

SECTION 4 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

RICHARD O. KRUMBACHER

3.9 Tons Uniform Riprap
11.4 Sys. Geotextile Type 1 A Req'd.
O.P.O.T. 54+06.89 "PR-EW", 2' RT. =
O.P.O.C. 13+18.62 "CIR", 30' RT.

P.C. STA. 55+51.55 "PR-EE-ENT"
P.T. @ 11+77.63 "CIR", 42.90' RT.

O.P.O.C. 55+69.71 "PR-EE-ENT", 2' RT. =
O.P.O.C. 11+63.06 "CIR", 30' RT.

O.P.O.T. 54+10.33 "PR-EW-ENT", 2' LT. =
O.P.O.C. 13+38.79 "CIR", 30' RT.

EQUATION:
P.T. 56+72.84 "PR-DN" =
P.C. 56+72.97 "PR-DS" =
P.O.T. 54+84.82 "E"

EQUATION:
P.T. STA. 56+37.62 "PR-EE-EXT" =
P.O.T. STA. 56+37.62 "E"

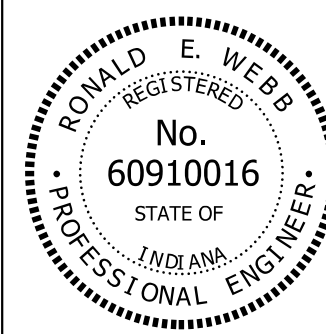
O.P.O.C. 55+70.91 "PR-EE-EXT", 2' LT. =
O.P.O.C. 11+47.47 "CIR", 30' RT.

LEGEND

- (17) Concrete Curb and Gutter, Type B
- (18) Concrete Curb and Gutter, Type B, Modified
- (19) Concrete Curb and Gutter, Roundabout
- (22) Concrete Center Curb, Type B
- (23) Combined Curb and Gutter Turnout w/Concrete Gutter, Type A
- (26) Mulched Seeding, Type R
- (A1) Truck Apron
PCCP, 10 in. w/ Transverse D-1 Joints @ 15 ft. spacing, on
14 in. of Compacted Aggregate, No. 53, on
Subgrade Treatment Type IBC
- (A2) PCCP, 10 in., on
15 in. Compacted Aggregate, No. 53, on
Subgrade Treatment Type IBC
- (J2) Geocell Confinement System:
2 in. Infill Topsoil-Aggregate Mix, on
6 in. Geocell Confinement System, on
4 in. of Compacted Aggregate, No. 53, on
Geotextile for Pavement, Type 2B, on
Subgrade Treatment Type III

- (K1) Full Depth HMA, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on
330 lbs/syd QC/QA HMA, 4, 76, Intermediate, 12.5mm, on
330 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on
440 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on
300 lbs/syd QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on
6 in. of Compacted Aggregate, No. 53, on
Subgrade Treatment Type IBC
- (K2) HMA for Approaches, Type B, consisting of:
165 lb/syd HMA Surface, Type B, on
495 lb/syd HMA Intermediate, Type B, on
4 in. of Compacted Aggregate, No. 53, on
Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O1) 21 in. of Compacted Aggregate, No. 53
- (O2) 10 in. of Compacted Aggregate, No. 53
- (R1) HMA Resurfacing Mainline, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on
2" Asphalt Surface Milling
- (R2) HMA Resurfacing Approaches, consisting of:
165 lb/syd HMA Surface, Type B, on
1 1/2" Asphalt Surface Milling

Plot: 8/24/2023 10:36:30 AM By: HyunhKT Per: Transportation.tbl Model: Sheet 7



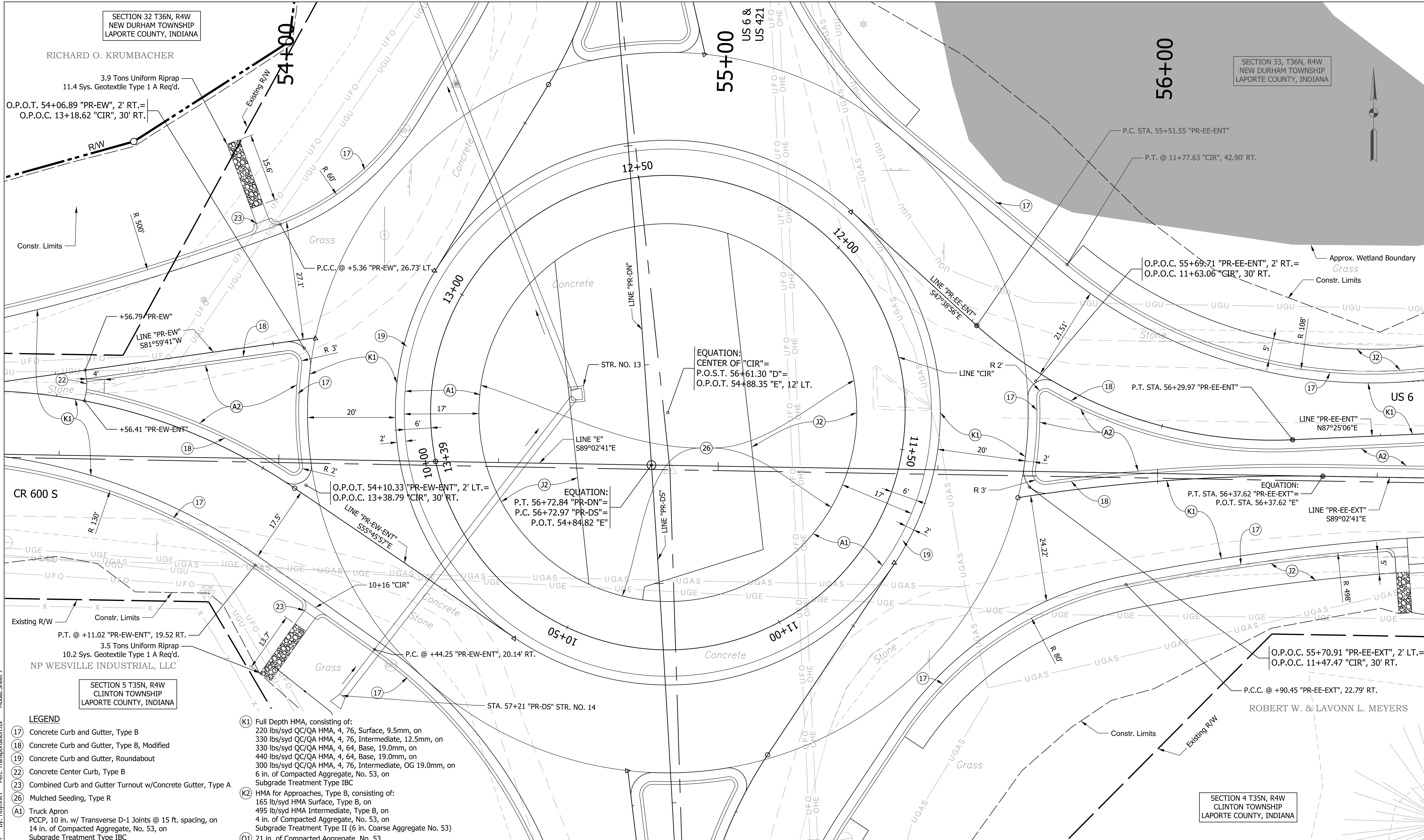
RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE

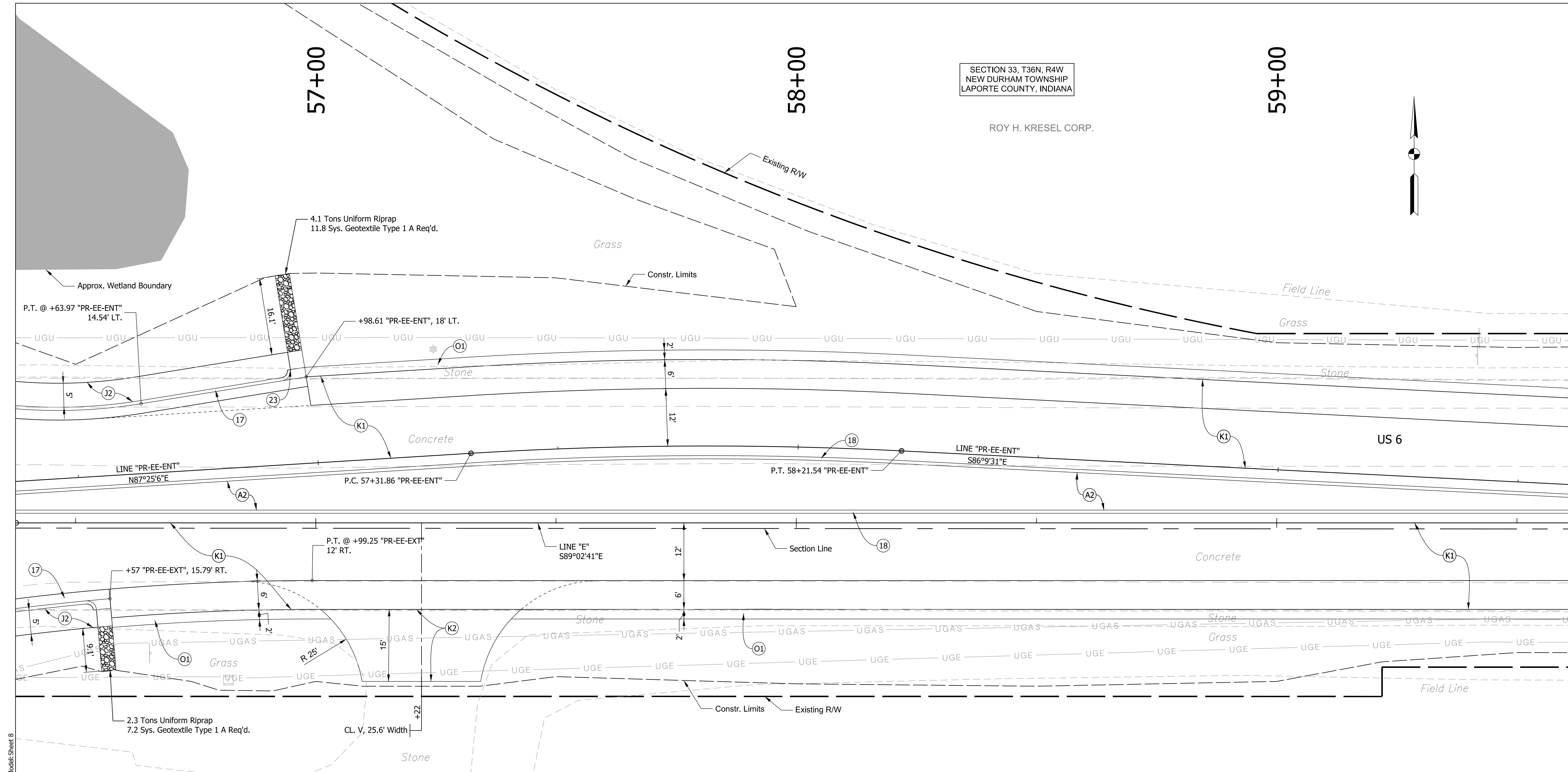
DESIGNED: JJV DRAWN: KTH
CHECKED: REW CHECKED: JJV

INDIANA
DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
53+50 TO 56+50 LINES "E", "CIR", "PR-EW",
"PR-EW-ENT", "PR-EE-ENT", & "PR-EE-EXT"

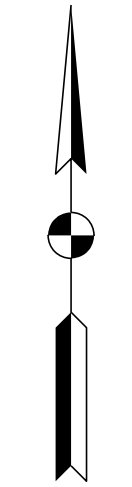
SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 27 of 82
CONTRACT R-43059	PROJECT 1702989





SECTION 33, T36N, R4W
 NEW DURHAM TOWNSHIP
 LAPORTE COUNTY, INDIANA

ROY H. KRESEL CORP.

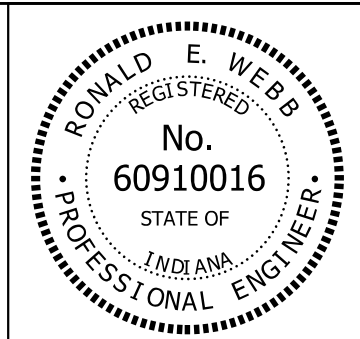


SECTION 4 T35N, R4W
 CLINTON TOWNSHIP
 LAPORTE COUNTY, INDIANA

ROBERT W. & LAVONN L. MEYERS

- LEGEND**
- (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Roundabout
 - (22) Concrete Center Curb, Type B
 - (23) Combined Curb and Gutter Turnout w/Concrete Gutter, Type A
 - (26) Mulched Seeding, Type R
 - (A1) Truck Apron
 PCCP, 10 in. w/ Transverse D-1 Joints @ 15 ft. spacing, on
 14 in. of Compacted Aggregate, No. 53, on
 Subgrade Treatment Type IBC
 - (A2) PCCP, 10 in., on
 15 in. Compacted Aggregate, No. 53, on
 Subgrade Treatment Type IBC
 - (J2) Geocell Confinement System:
 2 in. Infill Topsoil-Aggregate Mix, on
 6 in. Geocell Confinement System, on
 4 in. of Compacted Aggregate, No. 53, on
 Geotextile for Pavement, Type 2B, on
 Subgrade Treatment Type III

- (K1) Full Depth HMA, consisting of:
 220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on
 330 lbs/syd QC/QA HMA, 4, 76, Intermediate, 12.5mm, on
 330 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on
 440 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on
 300 lbs/syd QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on
 6 in. of Compacted Aggregate, No. 53, on
 Subgrade Treatment Type IBC
- (K2) HMA for Approaches, Type B, consisting of:
 165 lb/syd HMA Surface, Type B, on
 495 lb/syd HMA Intermediate, Type B, on
 4 in. of Compacted Aggregate, No. 53, on
 Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O1) 21 in. of Compacted Aggregate, No. 53
- (O2) 10 in. of Compacted Aggregate, No. 53
- (R1) HMA Resurfacing Mainline, consisting of:
 220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on
 2" Asphalt Surface Milling
- (R2) HMA Resurfacing Approaches, consisting of:
 165 lb/syd HMA Surface, Type B, on
 1 1/2" Asphalt Surface Milling



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: JJV

INDIANA
 DEPARTMENT OF TRANSPORTATION

CONSTRUCTION DETAILS
 56+50 TO 59+50 LINE "E" & "PR-EE-ENT"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 28 of 82
CONTRACT R-43059	PROJECT 1702989

Modals/Sheet 8
 Per: Transportation.tbl
 By: HuynhKT
 Date: 8/24/2023 12:07:33 PM
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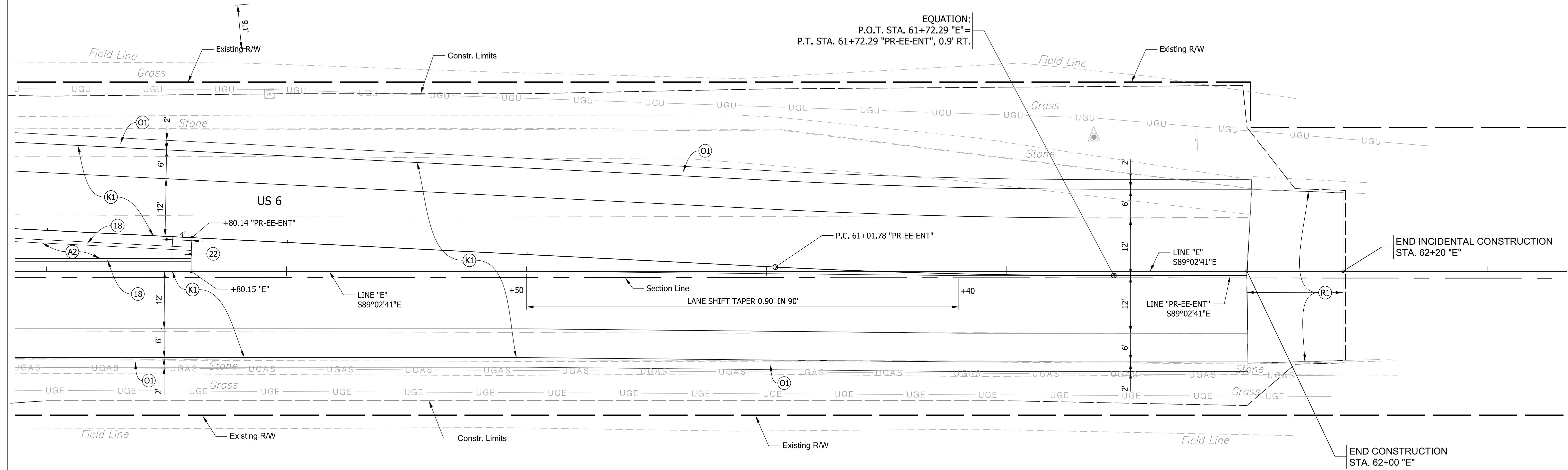
60+00

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

61+00

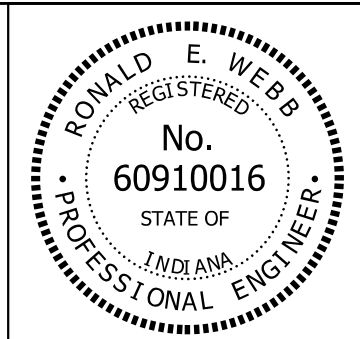
ROY H. KRESEL CORP.

62+00



ROBERT W. & LAVONN L. MEYERS

SECTION 4 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: KTH
CHECKED: REW CHECKED: JJV

INDIANA
DEPARTMENT OF TRANSPORTATION

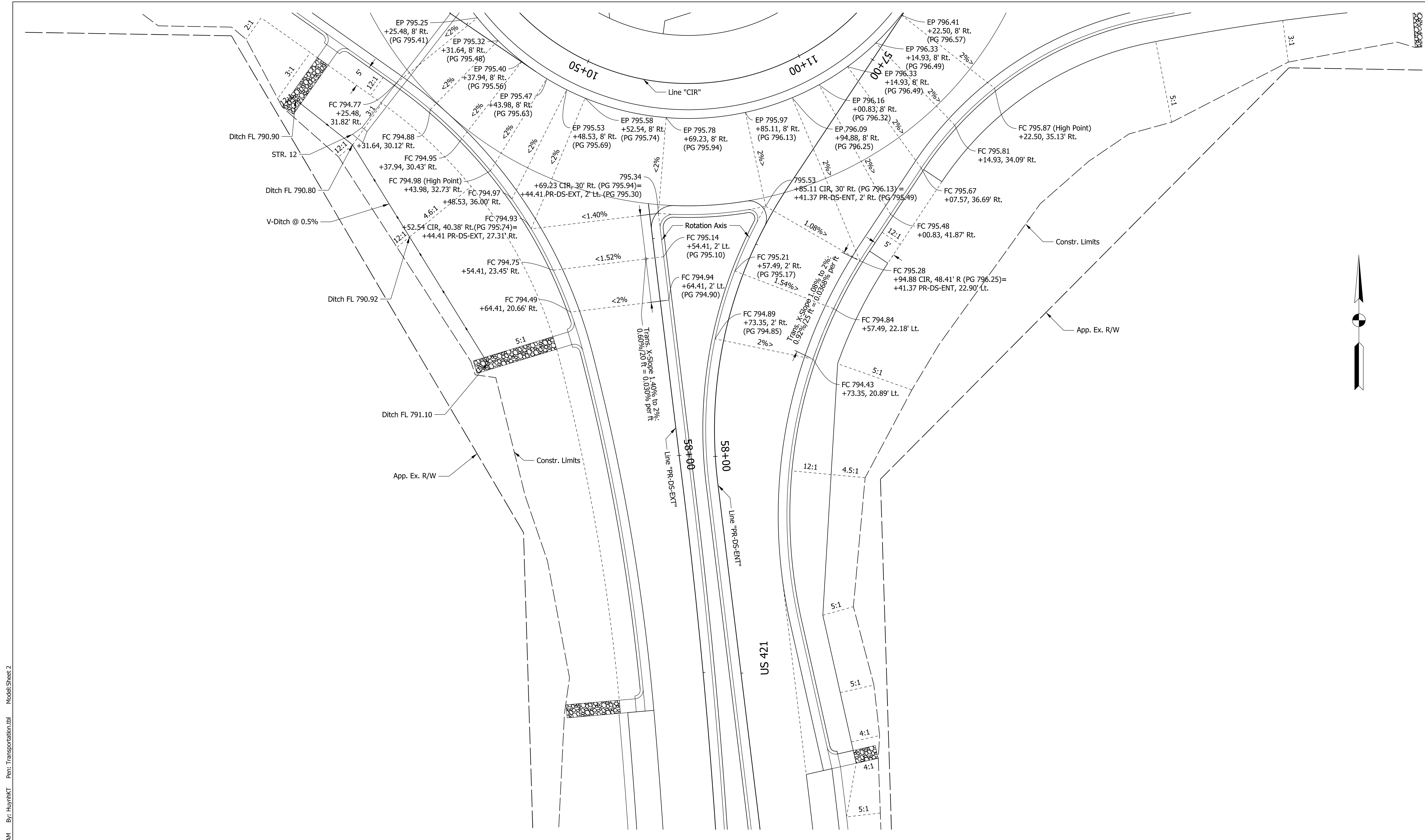
CONSTRUCTION DETAILS
59+50 TO 62+50 LINES "E" & "PR-EE-ENT"

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 29 of 82
CONTRACT R-43059	PROJECT 1702989

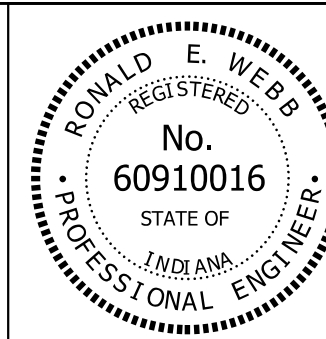
Plot: 8/24/2023 10:36:52 AM By: HuyhNT Per: Transportation.tbl Model: Sheet 9

- LEGEND**
- (17) Concrete Curb and Gutter, Type B
 - (18) Concrete Curb and Gutter, Type B, Modified
 - (19) Concrete Curb and Gutter, Roundabout
 - (22) Concrete Center Curb, Type B
 - (23) Combined Curb and Gutter Turnout w/Concrete Gutter, Type A
 - (26) Mulched Seeding, Type R
 - (A1) Truck Apron
PCCP, 10 in. w/ Transverse D-1 Joints @ 15 ft. spacing, on 14 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (A2) PCCP, 10 in., on 15 in. Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
 - (J2) Geocell Confinement System:
2 in. Infill Topsoil-Aggregate Mix, on 6 in. Geocell Confinement System, on 4 in. of Compacted Aggregate, No. 53, on Geotextile for Pavement, Type 2B, on Subgrade Treatment Type III

- (K1) Full Depth HMA, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 330 lbs/syd QC/QA HMA, 4, 76, Intermediate, 12.5mm, on 330 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 440 lbs/syd QC/QA HMA, 4, 64, Base, 19.0mm, on 300 lbs/syd QC/QA HMA, 4, 76, Intermediate, OG 19.0mm, on 6 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type IBC
- (K2) HMA for Approaches, Type B, consisting of:
165 lb/syd HMA Surface, Type B, on 495 lb/syd HMA Intermediate, Type B, on 4 in. of Compacted Aggregate, No. 53, on Subgrade Treatment Type II (6 in. Coarse Aggregate No. 53)
- (O1) 21 in. of Compacted Aggregate, No. 53
- (O2) 10 in. of Compacted Aggregate, No. 53
- (R1) HMA Resurfacing Mainline, consisting of:
220 lbs/syd QC/QA HMA, 4, 76, Surface, 9.5mm, on 2" Asphalt Surface Milling
- (R2) HMA Resurfacing Approaches, consisting of:
165 lb/syd HMA Surface, Type B, on 1 1/2" Asphalt Surface Milling



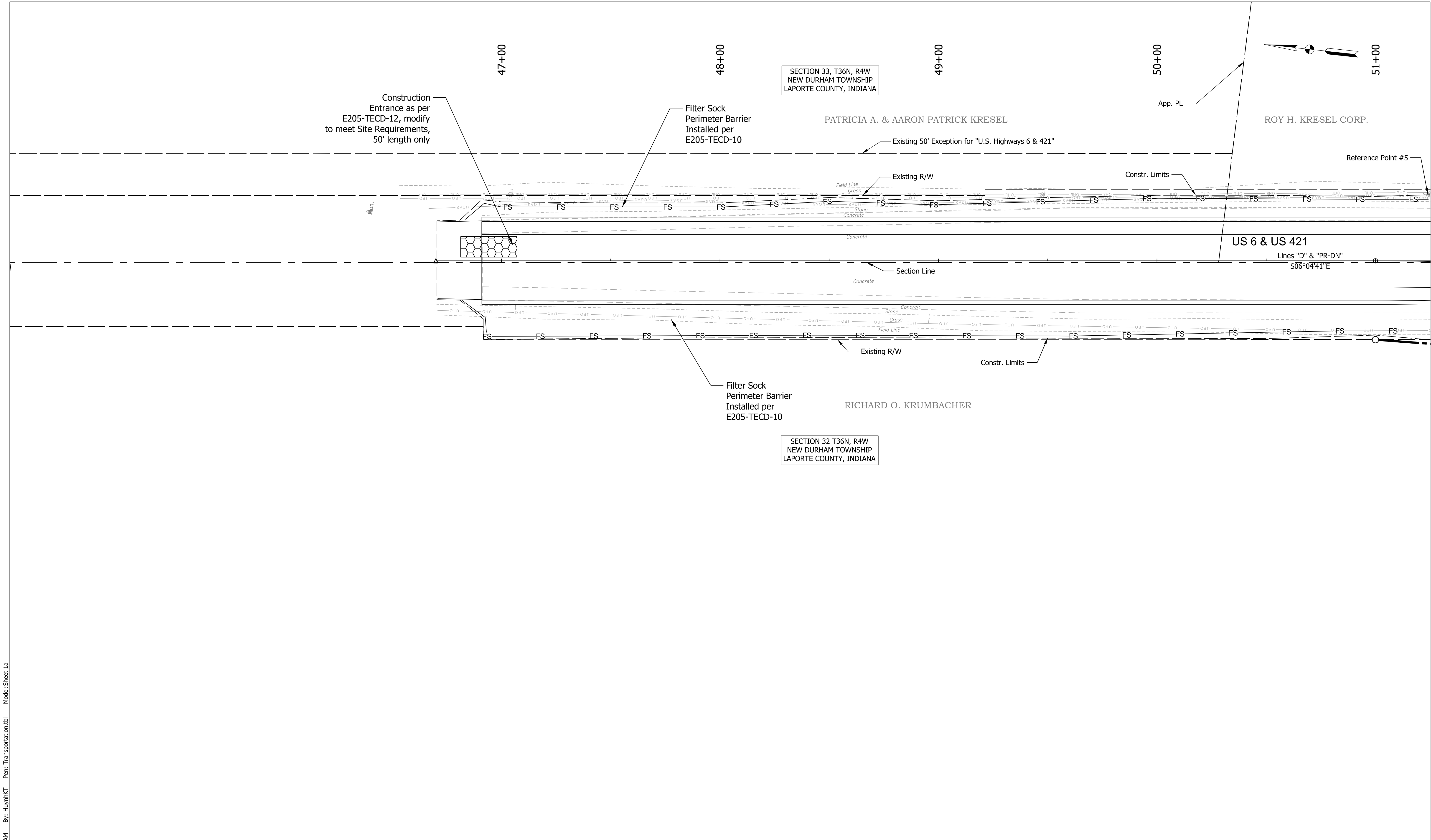
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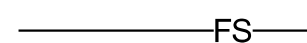


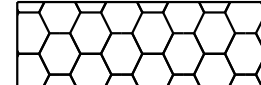
RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE
 DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: JJV

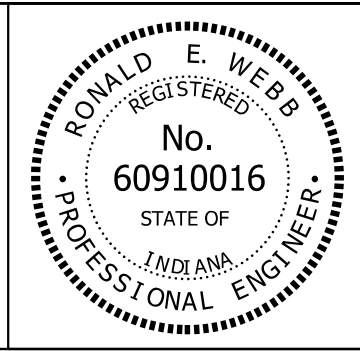
INDIANA
DEPARTMENT OF TRANSPORTATION
SPOT ELEVATION & GRADING DETAILS

SCALE 1" = 10'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 31 of 82
CONTRACT R-43059	PROJECT 1702989



Plc: 8/25/2023 11:47:57 AM By: HuythKT Pen: Transportation.tbl Model: Sheet 1a

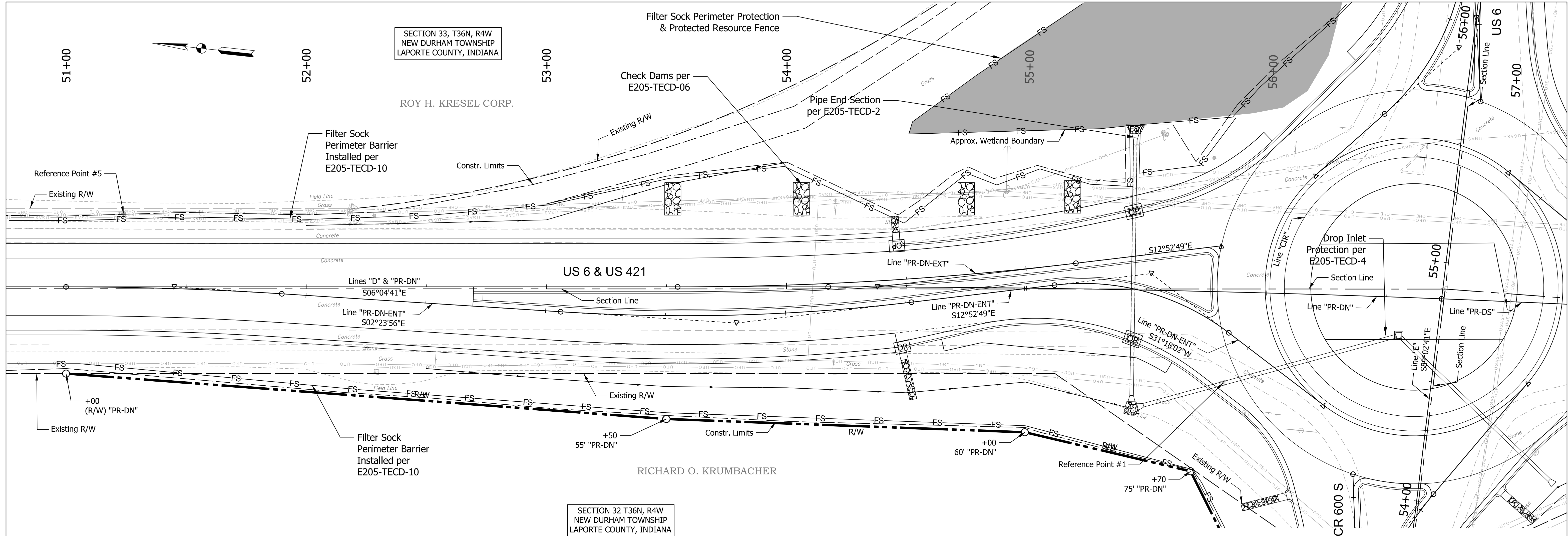
LEGEND	
	- Filter Sock
	- Outlet Protection
	- Check Dam (Revetment Riprap)
	- Temporary Construction Entrance



RECOMMENDED FOR APPROVAL	<i>Ronald E. Webb</i>	8-24-2023
	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: MWM	
CHECKED: REW	CHECKED: JJV	

INDIANA DEPARTMENT OF TRANSPORTATION	
EROSION CONTROL DETAILS LINES "D", "PR-DN", & "PR-DN-ENT"	

SCALE	BRIDGE FILE
1" = 20'	
1" = 5'	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	32 of 82
CONTRACT	PROJECT
R-43059	1702989



Plot: 8/25/2023 11:48:14 AM By: HuythKT Pen: Transportation.tbl Model: Sheet 2a

LEGEND

- Filter Sock
- Check Dam (Revetment Riprap)
- Outlet Protection
- Temporary Construction Entrance

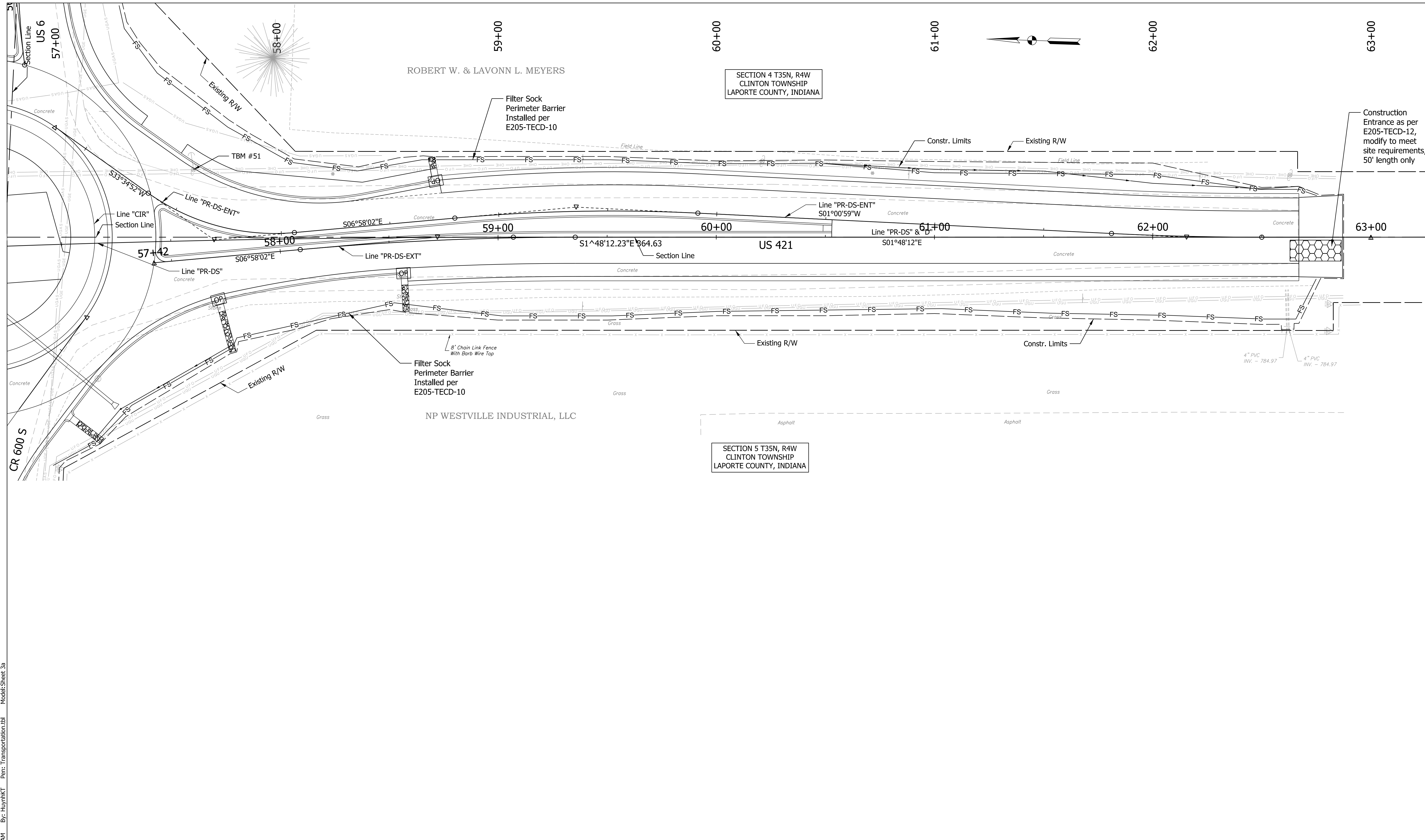


RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE
 DESIGNED: JJV DRAWN: MWM
 CHECKED: REW CHECKED: JJV

INDIANA
 DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS
 LINES "D", "PR-DN", & "PR-DN-ENT"

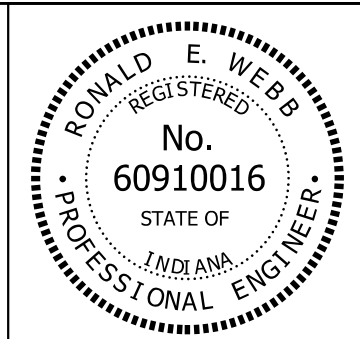
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1" = 20'	
DESIGNATION	
1" = 5'	1702989
SURVEY BOOK	SHEETS
	33 of 82
CONTRACT	PROJECT
R-43059	1702989



Plot: 8/25/2023 11:48:26 AM By: HuythKT Pen: Transportation.tbl Model: Sheet 2a

LEGEND

- Filter Sock
- Outlet Protection
- Check Dam (Revetment Riprap)
- Temporary Construction Entrance



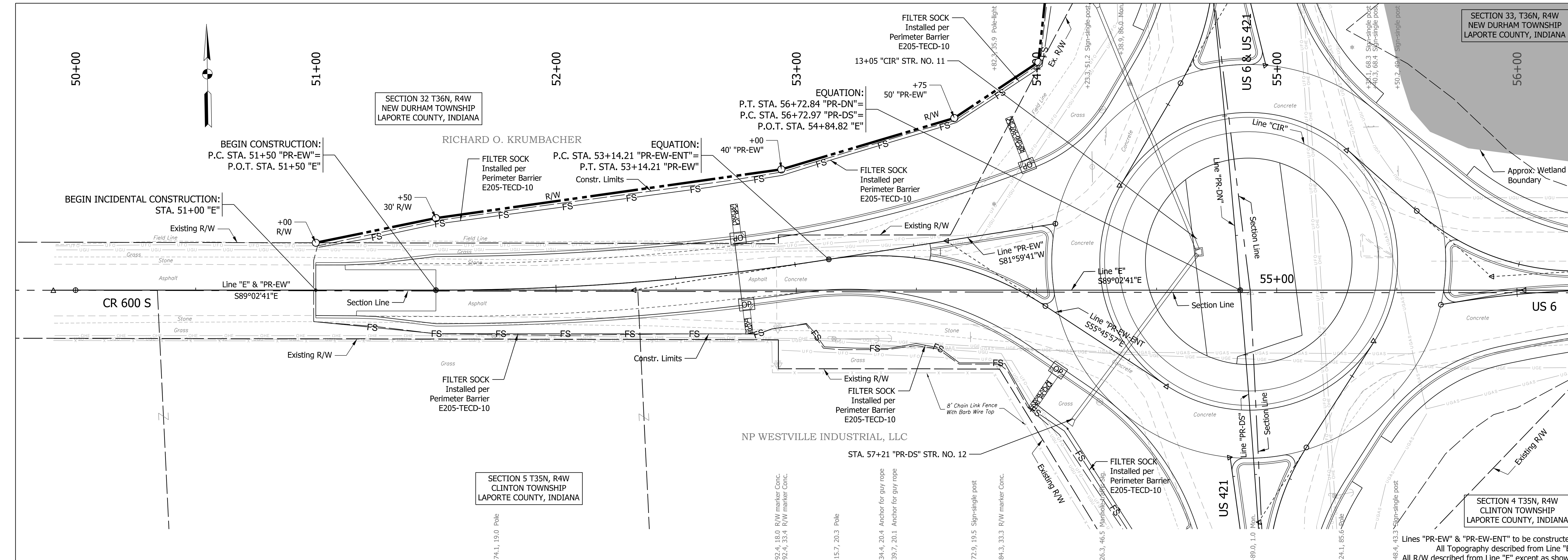
RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: MWM
CHECKED: REW CHECKED: JJV

INDIANA
DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL DETAILS
LINES "D", "PR-DS", & "PR-DS-ENT"**

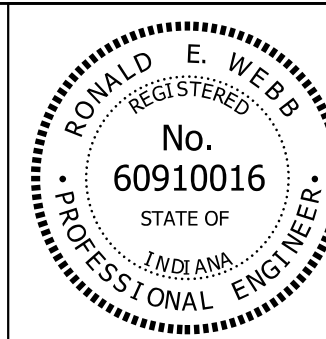
SCALE 1" = 20'	BRIDGE FILE
1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 34 of 82
CONTRACT R-43059	PROJECT 1702989



Plot: 8/25/2023 11:48:29 AM By: HuythKT Pen: Transportation.tbl Model: Sheet 4a

LEGEND

- Filter Sock
- Outlet Protection
- Check Dam (Retrofit Riprap)
- Temporary Construction Entrance

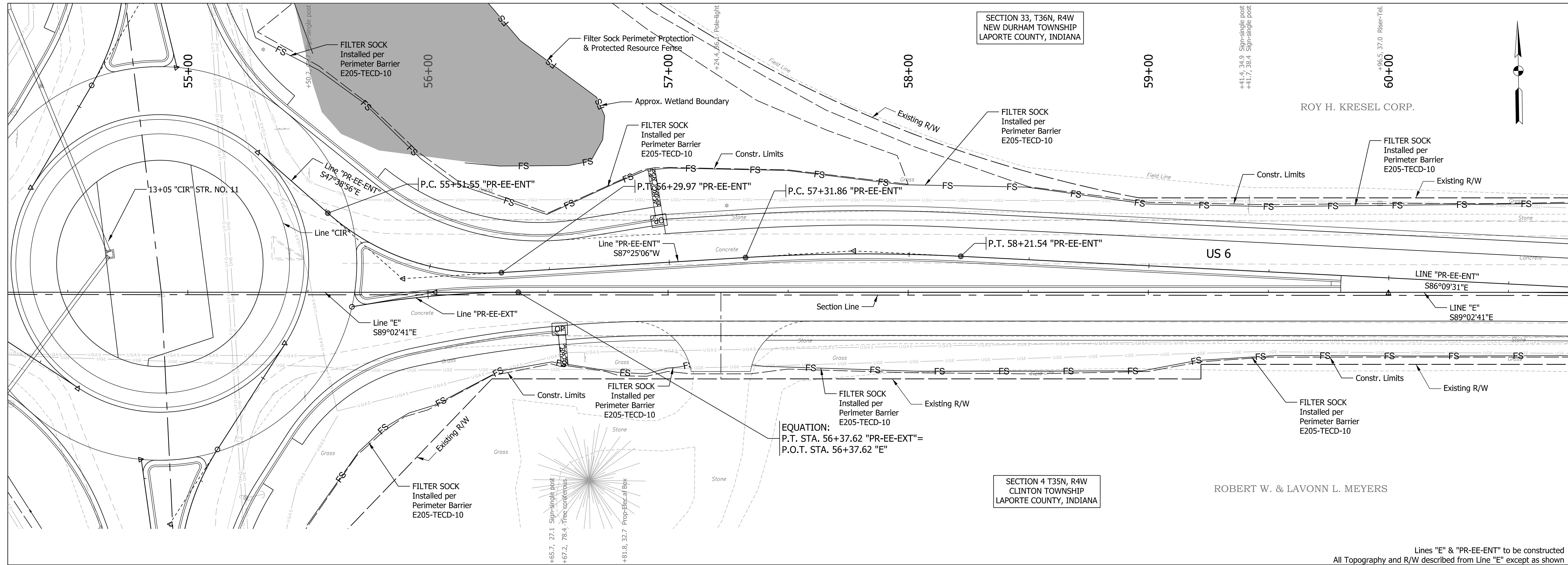


RECOMMENDED FOR APPROVAL	<i>Ronald E. Webb</i>	8-24-2023
	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

INDIANA
 DEPARTMENT OF TRANSPORTATION

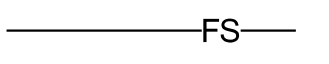
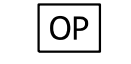

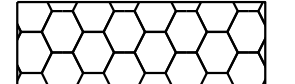
EROSION CONTROL DETAILS
LINES "E", "PR-EW" & "PR-EW-ENT"

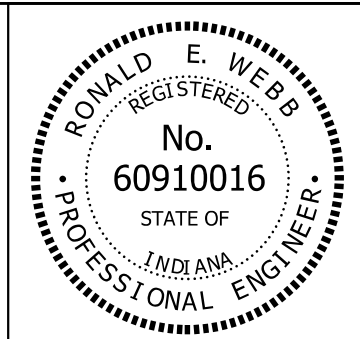
HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	35 of 82
CONTRACT	PROJECT
R-43059	1702989



Lines "E" & "PR-EE-ENT" to be constructed
All Topography and R/W described from Line "E" except as shown

Plot: 8/25/2023 11:48:41 AM By: HuythKT Pen: Transportation.tbl Model: Sheet Ea

LEGEND	
	- Filter Sock
	- Outlet Protection
	- Check Dam (Revetment Riprap)
	- Temporary Construction Entrance



RECOMMENDED FOR APPROVAL	<i>Ronald E. Webb</i>	8-24-2023
DESIGNED: JJV	DRAWN: KTH	DATE
CHECKED: REW	CHECKED: JJV	

INDIANA DEPARTMENT OF TRANSPORTATION	
EROSION CONTROL DETAILS LINES "E", "PR-EE-EXT", & "PR-EE-ENT"	

HORIZONTAL SCALE	BRIDGE FILE
1" = 20'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	36 of 82
CONTRACT	PROJECT
R-43059	1702989

SECTION 33, T36N, R4W
NEW DURHAM TOWNSHIP
LAPORTE COUNTY, INDIANA

ROY H. KRESEL CORP.

SECTION 4 T35N, R4W
CLINTON TOWNSHIP
LAPORTE COUNTY, INDIANA

ROBERT W. & LAVONN L. MEYERS

NORTHERN INDIANA PUBLIC
SERVICES COMPANY LLC

TEMPORARY EROSION CONTROL TABLE

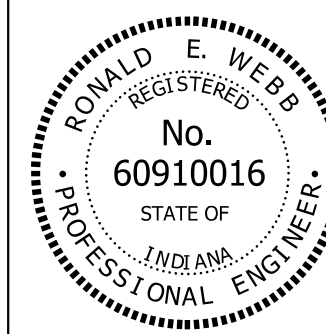
STATION	LOCATION		PERIMETER PROTECTION, FILTER SOCK	TEMPORARY CHECK DAM, REVETMENT RIPRAP	CONSTRUCTION ENTRANCE No. 2 STONE	TEMPORARY GEOTEXTILE	FILTER STONE	OUTLET PROTECTION COUNT AS INLET PROTECTION	SEDIMENT REMOVE	Protected Resource Fence	REMARKS
	LEFT	RIGHT									
Line "PR-DN"											
46+80 - 55+85	X		976	23			96	1			
46+72 - 47+22	X				45.00	67					
46+80 - 55+92		X	931					1			
Line "PR-DS"											
56+95 - 62+74		X	613					2			
57+45 - 62+74	X		547					1			
62+36 - 62+86		X				45	67		10		
Line "PR-EW"											
51+00 - 54+10	X		302					2			
51+00 - 54+50		X	290					2			
Line "E"											
56+18 - 60+50	X		444					1			
55+70 - 57+08		X	152					1			
57+35 - 60+50		X	315								
AROUND WETLAND	X		515							515.00	
60+50 - 62+10	X		265								
60+50 - 62+10		X	263								
TOTALS			5613	23	45	112	163	11	10	515	

LEGEND

FS - Filter Sock

- Check Dam (Revetment Riprap)

- Temporary Construction Entrance



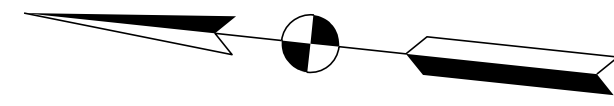
RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: MWM
CHECKED: REW CHECKED: JJV

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL DETAILS
LINES "E" & "PR-EE-ENT"

SCALE 1" = 20'	BRIDGE FILE
1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 37 of 82
CONTRACT R-43059	PROJECT 1702989



46+68

47+00

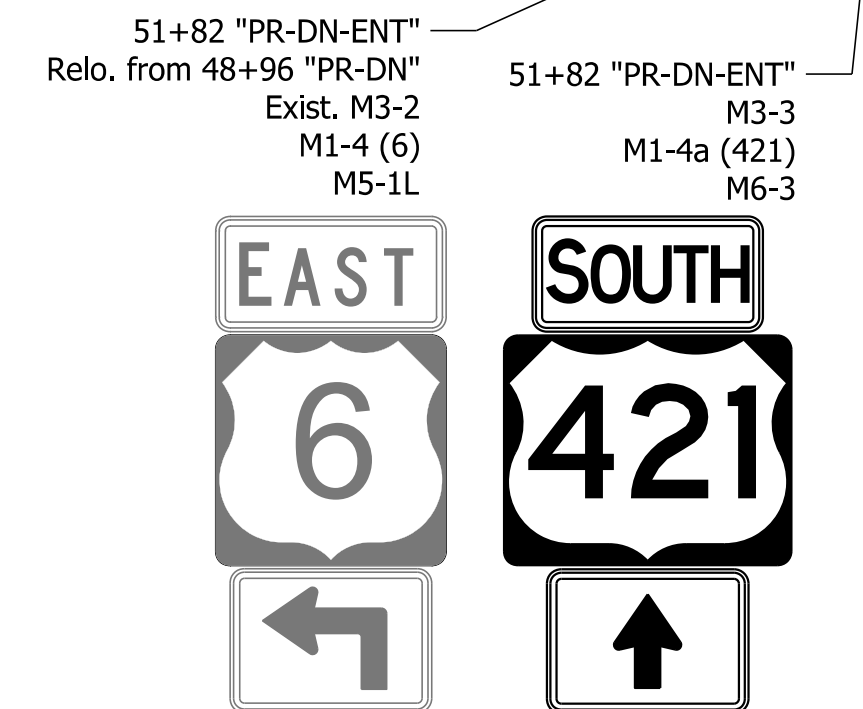
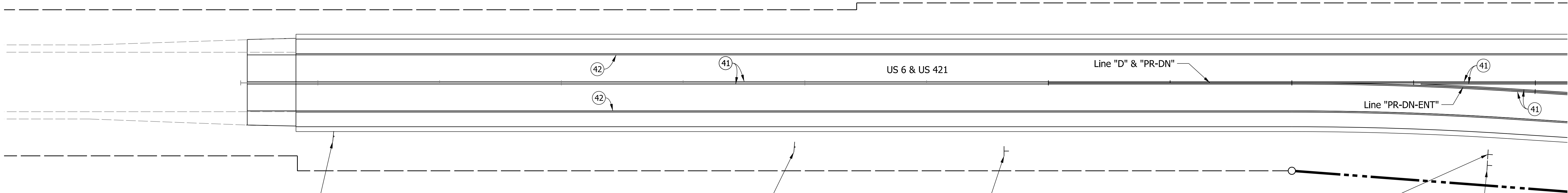
48+00

49+00

50+00

51+00

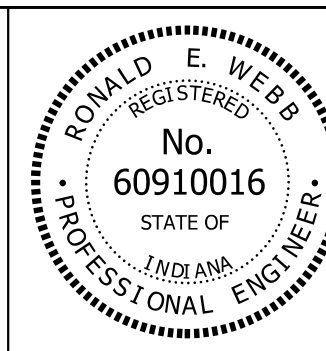
52+00



Plc: 9/28/2023 2:15:26 PM By: HuythKT Pen: Transportation.tbl Model: Sheet 1

LEGEND

- EXISTING SIGN
- EXISTING ROAD NAME SIGN
- PROPOSED SIGN
- DELINEATOR POST, FLEXIBLE, TYPE II
- ④ LINE, THERMOPLASTIC, DOTTED, WHITE, 10 IN. (2-FT. LINE, 2-FT. GAP)
- ④ LINE, THERMOPLASTIC, SOLID, YELLOW, 6 IN.
- ④ LINE, THERMOPLASTIC, SOLID, WHITE, 6 IN.
- ④ TRANSVERSE MARKING, THERMOPLASTIC, YIELD LINE, WHITE, 36 IN.

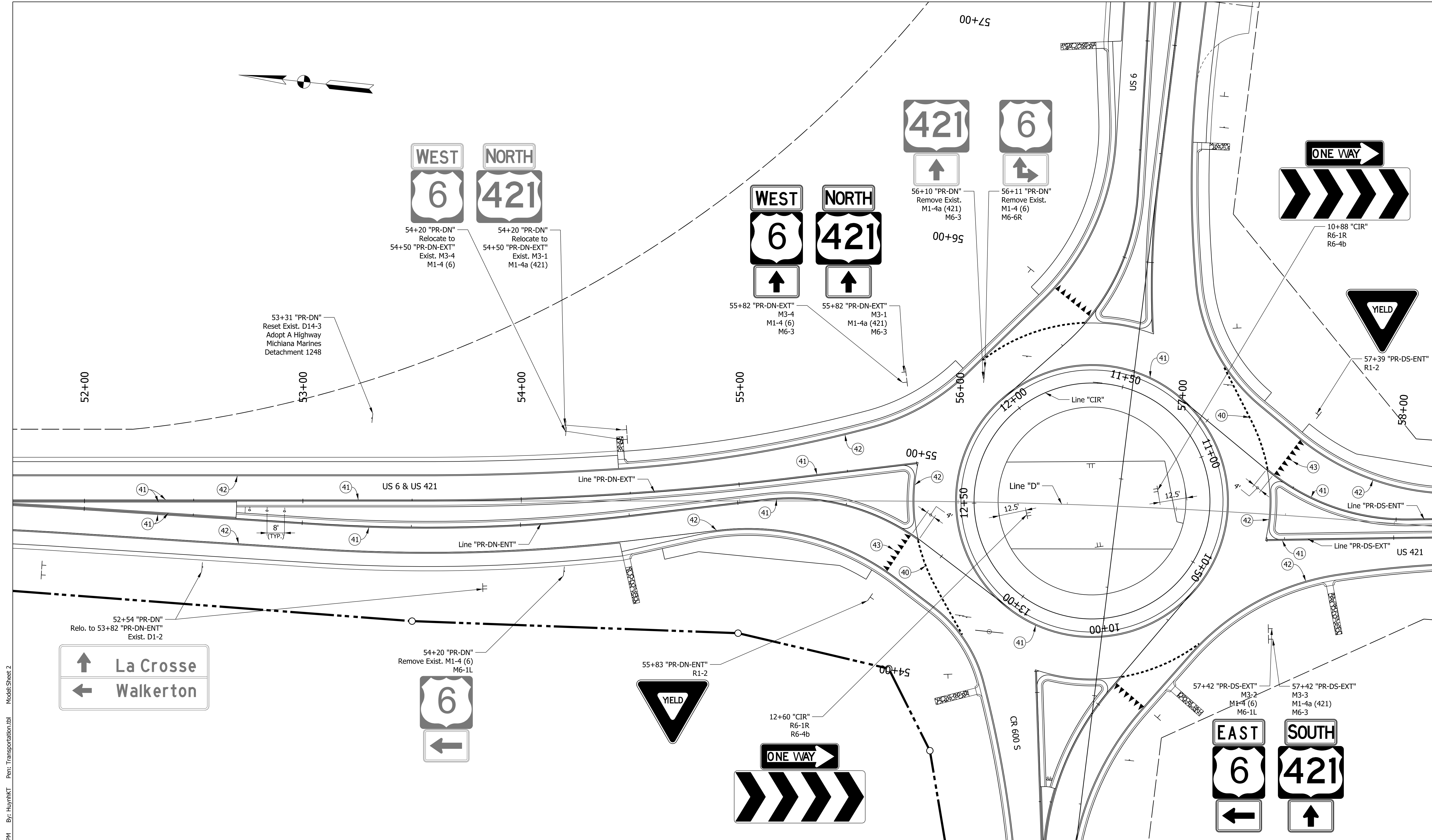


RECOMMENDED FOR APPROVAL	<i>Ronald E. Webb</i>	DESIGN ENGINEER	9-28-2023	DATE
DESIGNED: JJV	DRAWN: KTH			
CHECKED: REW	CHECKED: JJV			

INDIANA
DEPARTMENT OF TRANSPORTATION

SIGNS & PAVEMENT MARKINGS

SCALE	BRIDGE FILE
1" = 20'	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	38 of 82
CONTRACT	PROJECT
R-43059	1702989

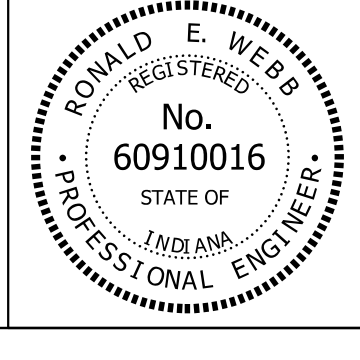


P:\c9\28\2023 12:24:35 PM By: HuythKT Per: Transportation.tbl Model: Sheet 2

LEGEND

	EXISTING SIGN
	EXISTING ROAD NAME SIGN
	PROPOSED SIGN
	DELINEATOR POST, FLEXIBLE, TYPE II

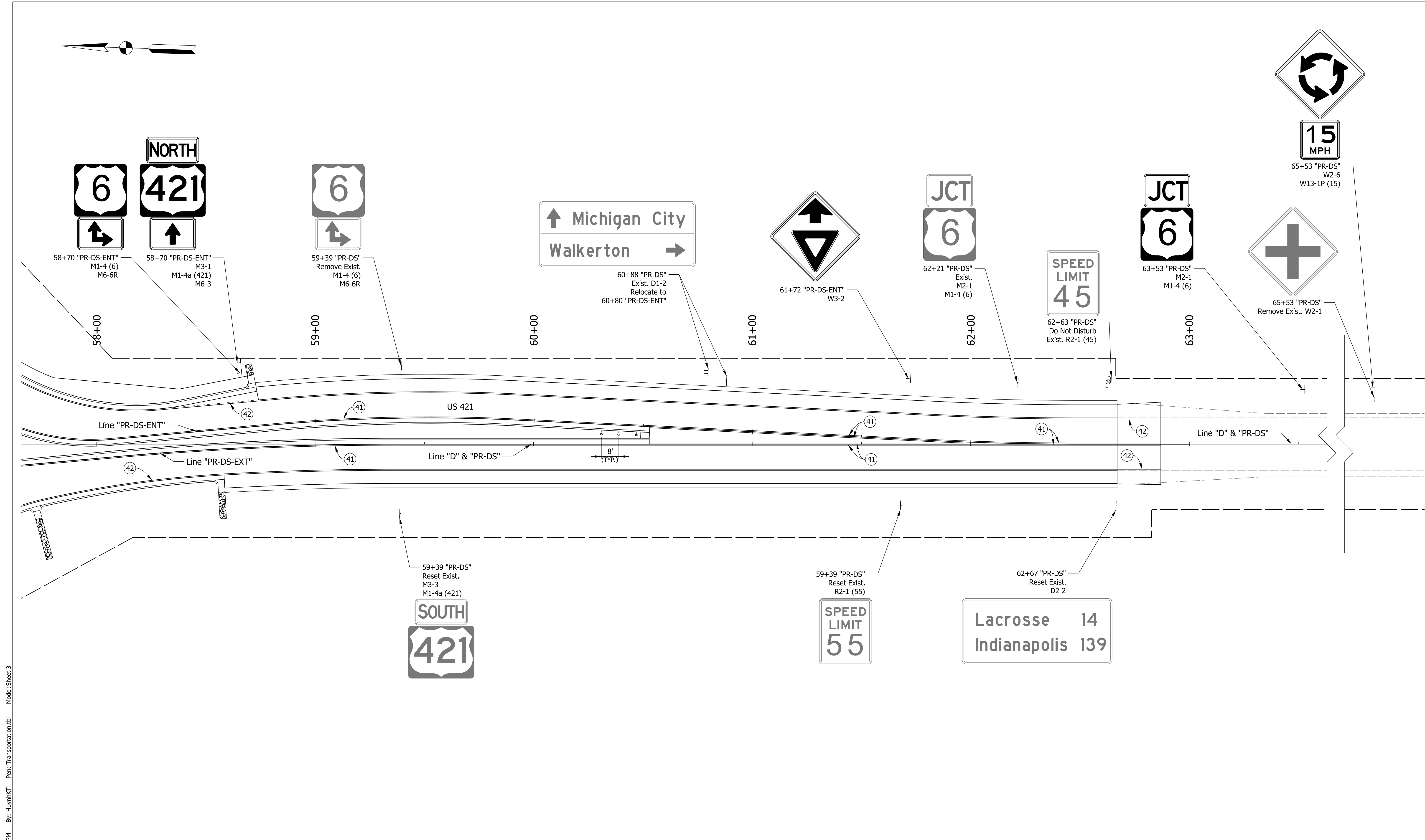
- (40) LINE, THERMOPLASTIC, DOTTED, WHITE, 10 IN. (2-FT. LINE, 2-FT. GAP)
- (41) LINE, THERMOPLASTIC, SOLID, YELLOW, 6 IN.
- (42) LINE, THERMOPLASTIC, SOLID, WHITE, 6 IN.
- (43) TRANSVERSE MARKING, THERMOPLASTIC, YIELD LINE, WHITE, 36 IN.



RECOMMENDED FOR APPROVAL	<i>Ronald E. Webb</i>	DESIGN ENGINEER	9-28-2023	DATE
DESIGNED:	JJV	DRAWN:	KTH	
CHECKED:	REW	CHECKED:	JJV	

INDIANA DEPARTMENT OF TRANSPORTATION	
SIGNS & PAVEMENT MARKINGS	

SCALE	BRIDGE FILE
1" = 20'	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	39 of 82
CONTRACT	PROJECT
R-43059	1702989

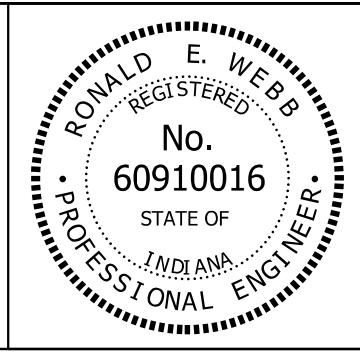


Plc:9/28/2023 12:24:50 PM By: HuynhKT Pen: Transportation.tbl Model:Sheet 3

LEGEND

	EXISTING SIGN
	EXISTING ROAD NAME SIGN
	PROPOSED SIGN
	DELINEATOR POST, FLEXIBLE, TYPE II

	LINE, THERMOPLASTIC, DOTTED, WHITE, 10 IN. (2-FT. LINE, 2-FT. GAP)
	LINE, THERMOPLASTIC, SOLID, YELLOW, 6 IN.
	LINE, THERMOPLASTIC, SOLID, WHITE, 6 IN.
	TRANSVERSE MARKING, THERMOPLASTIC, YIELD LINE, WHITE, 36 IN.



RECOMMENDED FOR APPROVAL	<i>Ronald E. Webb</i>	DESIGN ENGINEER	9-28-2023	DATE
DESIGNED:	JJV	DRAWN:	KTH	
CHECKED:	REW	CHECKED:	JJV	

INDIANA DEPARTMENT OF TRANSPORTATION	
SIGNS & PAVEMENT MARKINGS	

SCALE	BRIDGE FILE
1" = 20'	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	40 of 82
CONTRACT	PROJECT
R-43059	1702989

SIGN DETAIL
1:20

BORDER
R=1.5"
TH=0.75"

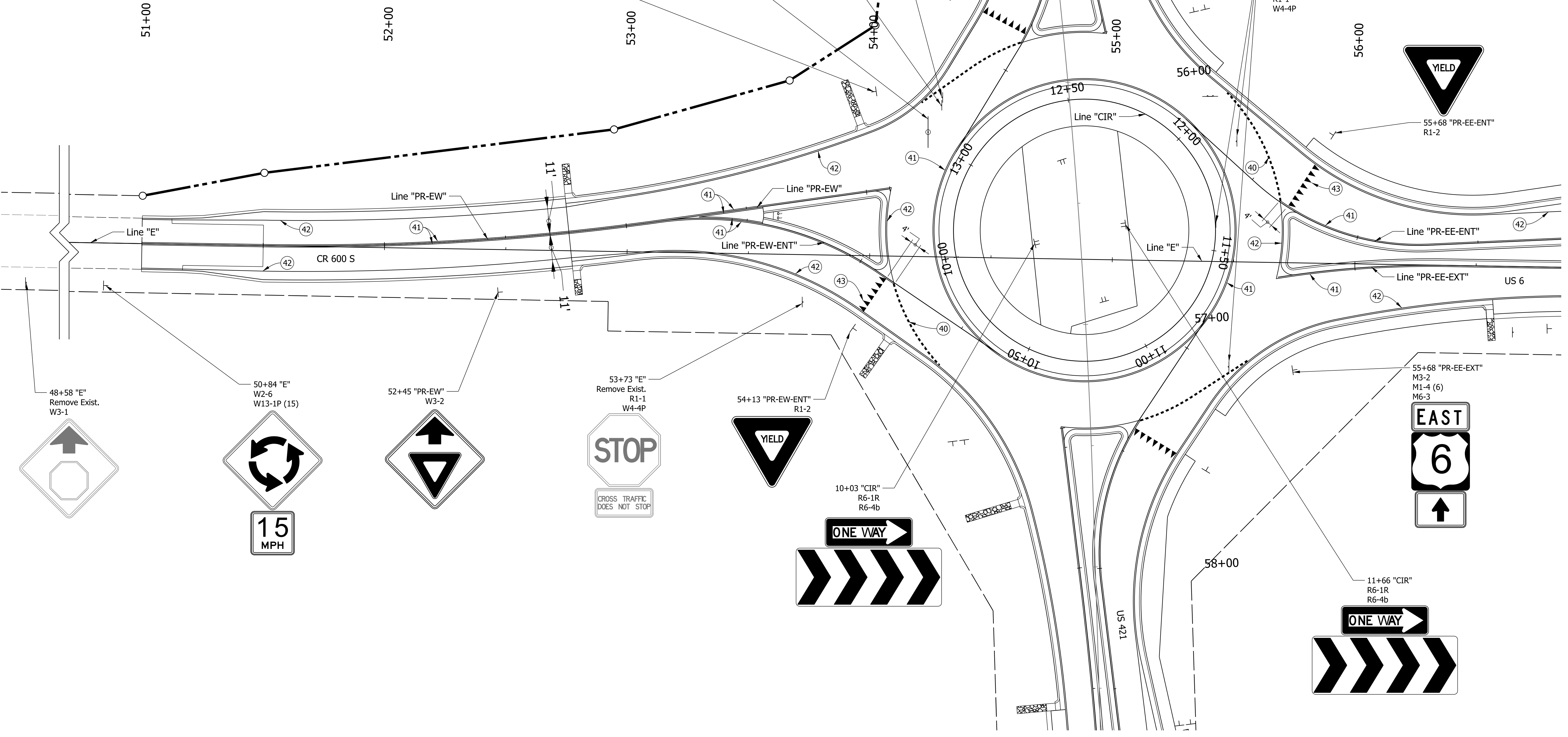
LETTER POSITIONS (X)

LETTER	POSITION (X)	LENGTH	SERIES/SIZE
6	0	0	S
0	10.5	16	20.3
S	26.3	2.8	5.3
			8

Panel Style: gaisign_destination.tbl
Dimensions are in inches/centimeters

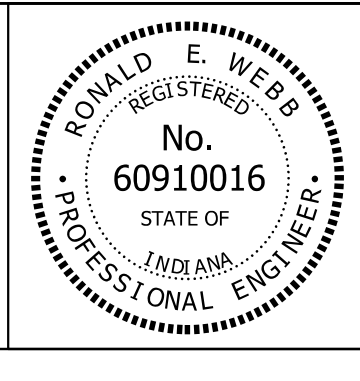
SIGN NUMBER	D1-1d
WIDTH x HEIGHT	4'-0" x 1'-0"
BORDER WIDTH	0.75"
CORNER RADIUS	1.5"
MOUNTING	Ground
BACKGROUND TYPE	Reflective
COLOR	Green
LEGEND/BORDER TYPE	Reflective
COLOR	White/White

SYMBOL	ROT	X	Y	WD	HT
AR_Type D	315	36.4	2.8	5.3	8



- LEGEND**
- EXISTING SIGN
 - EXISTING ROAD NAME SIGN
 - PROPOSED SIGN
 - ⊕ DELINEATOR POST, FLEXIBLE, TYPE II

- ④ LINE, THERMOPLASTIC, DOTTED, WHITE, 10 IN. (2-FT. LINE, 2-FT. GAP)
- ④ LINE, THERMOPLASTIC, SOLID, YELLOW, 6 IN.
- ④ LINE, THERMOPLASTIC, SOLID, WHITE, 6 IN.
- ④ TRANSVERSE MARKING, THERMOPLASTIC, YIELD LINE, WHITE, 36 IN.



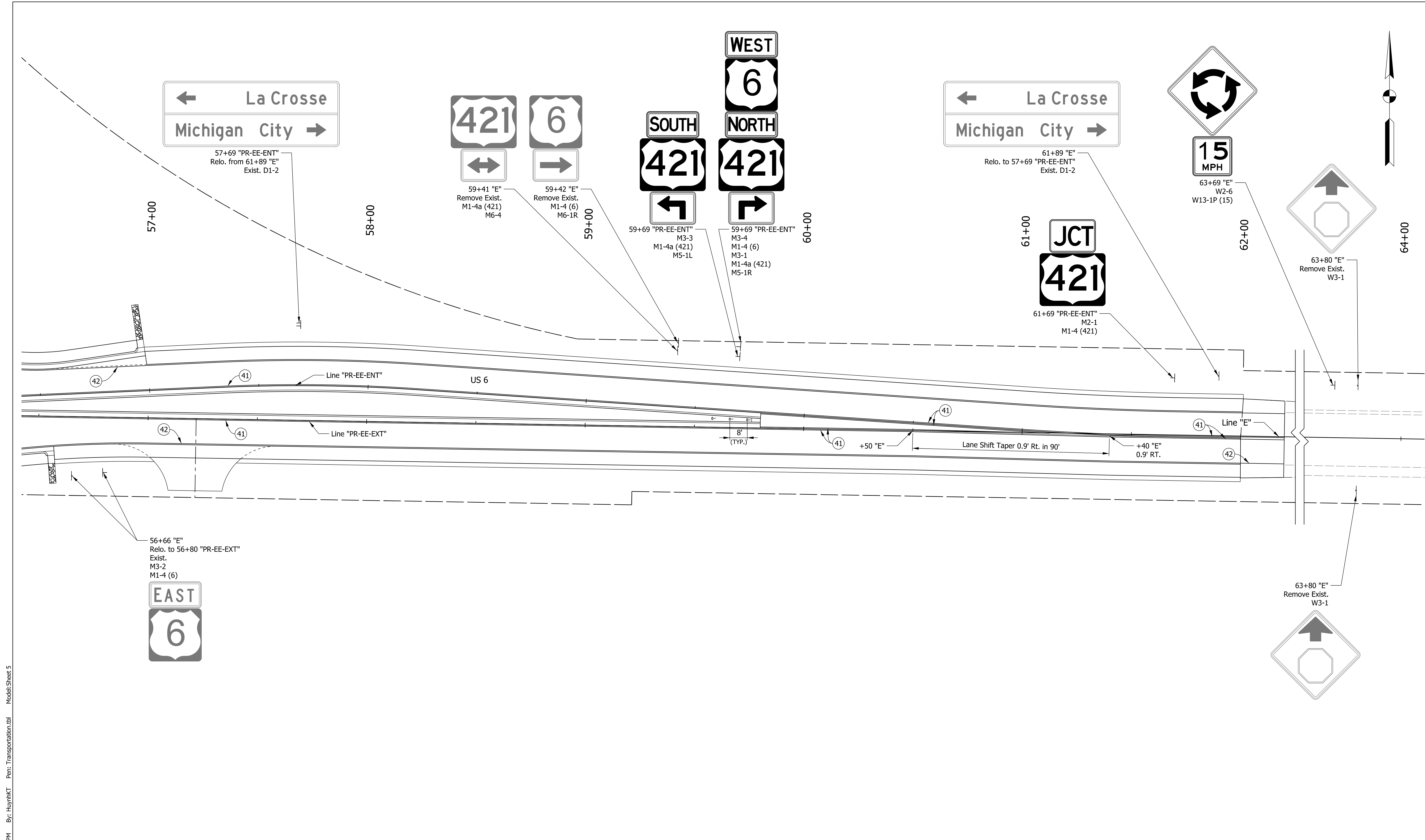
RECOMMENDED FOR APPROVAL	<i>Ronald E. Webb</i>	10-2-2023
DESIGNED:	JJV	DRAWN:
CHECKED:	REW	CHECKED:

INDIANA
DEPARTMENT OF TRANSPORTATION

SIGNS & PAVEMENT MARKINGS

SCALE	BRIDGE FILE
1" = 20'	
SURVEY BOOK	DESIGNATION
R-43059	1702989
	SHEETS
	41 of 82
	PROJECT
	1702989

P10:10/2/2023 10:48:24 AM By: HuythKT Pen: Transportation.tbl Model: Sheet 4

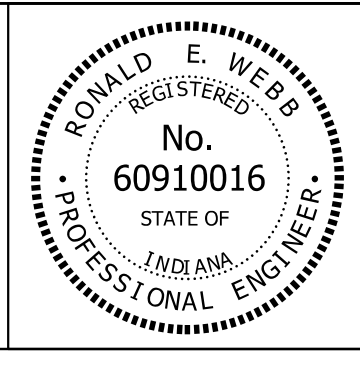


2:15:57 PM By: HuythKT Pen: Transportation.tbl Model: Sheet 5

Pic: 9/28/2023

LEGEND	
	EXISTING SIGN
	EXISTING ROAD NAME SIGN
	PROPOSED SIGN
	DELINEATOR POST, FLEXIBLE, TYPE II

	LINE, THERMOPLASTIC, DOTTED, WHITE, 10 IN. (2-FT. LINE, 2-FT. GAP)
	LINE, THERMOPLASTIC, SOLID, YELLOW, 6 IN.
	LINE, THERMOPLASTIC, SOLID, WHITE, 6 IN.
	TRANSVERSE MARKING, THERMOPLASTIC, YIELD LINE, WHITE, 36 IN.



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 9-28-2023
DESIGN ENGINEER DATE

DESIGNED: JJV DRAWN: KTH
CHECKED: REW CHECKED: JJV

INDIANA DEPARTMENT OF TRANSPORTATION

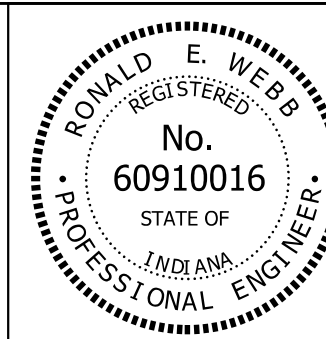
SIGNS & PAVEMENT MARKINGS

SCALE 1" = 20'	BRIDGE FILE
	DESIGNATION 1702989
SURVEY BOOK	SHEETS 42 of 82
CONTRACT R-43059	PROJECT 1702989

PAVEMENT MARKINGS SUMMARY OF QUANTITIES

LOCATION	Side	LINE, THERMOPLASTIC				LINE, THERMOPLASTIC				TRANSVERSE MARKING, THERMOPLASTIC, CROSSHATCH LINE		TRANSVERSE MARKINGS THERMOPLASTIC, YIELD LINE		TRANSVERSE MARKING, THERMOPLASTIC, CROSSWALK LINE		PAVEMENT MESSAGE MARKING, THERMOPLASTIC		DELINEATOR POST, FLEXIBLE, TYPE II	
		DOTTED WHITE 4 in	DOTTED YELLOW 4 in	DOTTED WHITE 10 in	DOTTED YELLOW 8 in	SOLID WHITE 6 in	SOLID YELLOW 6 in	SOLID WHITE 8 in	SOLID YELLOW 8 in	SOLID WHITE 24 in	SOLID YELLOW 24 in	SOLID WHITE 27 in	SOLID WHITE 36 in	SOLID WHITE 12 in	SOLID WHITE 24 in	WORD ONLY	LANE INDICATION ARROW	YELLOW	WHITE
		ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	ft	EACH	EACH	EACH	EACH
North Leg - US 6 & 421																			
Lines "PR-DN", "PR-DN-EXT & ENT"																			
46+71	51+53	LT & RT								964	964								
51+53	52+70	LT & RT								234	468								
52+75	52+91	Center																3	
52+70	55+82	LT									312								
52+70	56+03	LT								344									
52+70	55+87	RT									317								
52+70	56+29	RT								349									
55+83		RT											14						
South Leg - US 421																			
Lines "PR-DS", "PR-DS-ENT & EXT"																			
56+90	60+53	LT								352									
57+35	60+53	LT									318								
57+39		LT											14						
57+13	60+53	RT								350									
57+42	60+53	RT									311								
60+32	60+48	Center																3	
60+53	61+97	LT & RT								288	576								
61+97	62+87	LT & RT								180	180								
West Leg - CR 600 S																			
Lines "E", "PR-EW" & "PR-EW-ENT"																			
51+00	53+30	LT & RT								460	460								
53+30	53+57	LT & RT								54	108								
53+62		Center																2	
53+57	54+20	LT								74									
53+57	54+10	LT									53								
53+47	54+17	RT									70								
53+47	57+13	RT								88									
54+13		RT											12						
East Leg - US 6																			
Lines "E", "PR-EE-ENT & EXT"																			
55+39	59+80	LT								458									
55+64	59+80	LT									416								
55+68		LT											14						
55+68	59+80	RT									412								
55+57	59+80	RT								429									
59+59	59+75	Center																3	
59+80	61+13	LT & RT								266	532								
61+13	62+20	LT & RT								214	214								
Line "CIR"																			
10+00	13+39	RT									393								
10+04	10+29	RT			20														
10+67	10+89	RT								33									
10+89	11+22	RT			26														
11+45	11+67	RT								33									
11+67	12+00	RT			26														
12+37	12+61	RT								36									
12+61	12+92	RT			24														
13+16	13+39	RT								40									
TOTALS			0	0	96	0	5,246	6,104	0	0	0	0	54	0	0	0	0	11	0

Plc:9/28/2023 12:18:46 PM By: HuythKT Pen: Transportation.tbl Model: Pavement Marking



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 9-28-2023 DATE
 DESIGN ENGINEER
 DESIGNED: JJV DRAWN: ZJM
 CHECKED: REW CHECKED: REW

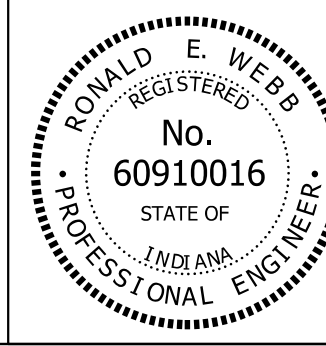
INDIANA DEPARTMENT OF TRANSPORTATION
 PAVEMENT MARKING TABLE

SCALE	BRIDGE FILE
None	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	43 of 82
CONTRACT	PROJECT
R-43059	1702989

SHEET SIGN & POST SUMMARY

SIGN											POST									
PLAN SHEET NO. / LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN. x IN.)			GROUND - MOUNTED SIGN AREA (ft ²)			SIGN, GROUND MOUNTED, RESET EACH	SIGN, SHEET, REMOVE EACH	SIGN, SHEET, RELOCATE EACH	SQUARE								
			W	x	H	0.080"	0.100"	0.125"				2 1/2" X 2 1/2" - 12 GA. (TYPE 3)		2" X 2" - 12 GA. (TYPE 2)		2 1/4" X 2 1/4" - 12 GA. (TYPE 1)				
						Up to 30"	31" to 60"	61" and over				UNREINFORCED ANCHOR POST LENGTH (FT.)		REINFORCED ANCHOR POST LENGTH (FT.)		REINFORCED ANCHOR POST LENGTH (FT.)				
												1	2	TOTAL	1	2	TOTAL	1	TOTAL	
Line "PR-DN"																				
34	47+07 RT	Existing W2-1							1											
34	48+96 RT	Existing								1										
	Relo. to 51+82 RT	M3-2	24	x	12														12.0	12.0
		M1-4 (6)	24	x	24															
		M5-1L	21	x	15															
34	49+82 RT	W2-6	30	x	30	6.25													12.9	12.9
		W13-1P (15)	18	x	18	2.25														
34	51+82 RT	M3-3	24	x	12	2.00													12.5	12.5
		M1-4 (421)	24	x	24	4.00														
		M6-3	21	x	15	2.19														
35	52+54 RT	Existing								1										
	Relo. to 53+82 RT	D1-2	72	x	30							10.3	11.2	21.5						
35	53+31 LT	Existing D14-3						1												
35	54+20 RT	Existing							1											
		M1-4 (6)	24	x	24															
		M6-1L	21	x	15															
35	54+20 LT	Existing								1										
	Relo. to 54+50 LT	M3-4	24	x	12														10.2	10.2
		M1-4 (6)	24	x	24															
35	54+20 LT	Existing								1										
	Relo. to 54+50 LT	M3-1	24	x	12														10.7	10.7
		M1-4a (421)	30	x	24															
35	55+82 LT	M3-4	24	x	12	2.00													11.5	11.5
		M1-4 (6)	24	x	24	4.00														
		M6-3	21	x	15	2.19														
35	55+82 LT	M3-1	24	x	12	2.00													12.0	12.0
		M1-4a (421)	30	x	24	5.00														
		M6-3	21	x	15	2.19														
35	55+83 RT	R1-2	36	36	36	3.90													10.0	10.0
35	56+10 LT	Existing							1											
		M1-4a (421)	24	x	24															
		M6-3	21	x	15															
35	56+11 LT	Existing							1											
		M1-4 (6)	24	x	24															
		M6-6R	21	x	15															
TOTAL THIS SHEET						34.07	3.90	0.00	1	4	4			0.0			21.5		91.8	

Plc:8/24/2023 10:43:36 AM By: HuythKT Per: Transportation.tbl Model:Sign_Summary 1



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE
 DESIGNED: JJV DRAWN: ZJM
 CHECKED: REW CHECKED: REW

INDIANA
 DEPARTMENT OF TRANSPORTATION

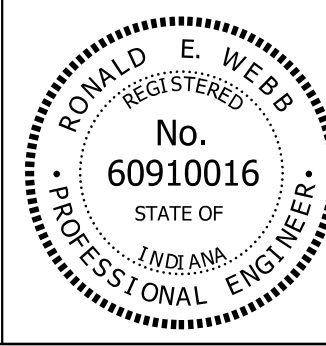
SIGN SUMMARY TABLE

SCALE	BRIDGE FILE
None	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	44 of 82
CONTRACT	PROJECT
R-43059	1702989

SHEET SIGN & POST SUMMARY

SIGN												POST					
PLAN SHEET NO. / LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN. x IN.)			GROUND - MOUNTED SIGN AREA (ft ²)			SIGN, GROUND MOUNTED, RESET EACH	SIGN, SHEET, REMOVE EACH	SIGN, SHEET, RELOCATE EACH	SQUARE					
			W	x	H	0.080"	0.100"	0.125"				2 1/2" X 2 1/2" - 12 GA. (TYPE 3)		2" X 2" - 12 GA. (TYPE 2)		2 1/4" X 2 1/4" - 12 GA. (TYPE 1)	
						Up to 30"	31" to 60"	61" and over				UNREINFORCED ANCHOR POST LENGTH (FT.)		REINFORCED ANCHOR POST LENGTH (FT.)		REINFORCED ANCHOR POST LENGTH (FT.)	
												1	2	TOTAL	1	2	TOTAL
Line "PR-DS" 35	57+39 LT	R1-2	36	36	36		3.90									10.0	10.0
35	57+42 RT	M3-2	24	x	12	2.00										11.5	11.5
		M1-4 (6)	24	x	24	4.00											
		M6-1L	21	x	15	2.19											
35	57+42 RT	M3-3	24	x	12	2.00										12.0	12.0
		M1-4a (421)	30	x	24	5.00											
		M6-3	21	x	15	2.19											
36	58+70 LT	M1-4 (6)	24	x	24	4.00										9.8	9.8
		M6-6R	21	x	15	2.19											
36	58+70 RT	M3-1	24	x	12	2.00										11.3	11.3
		M1-4a (421)	30	x	24	5.00											
		M6-3	21	x	15	2.19											
36	59+39 LT	Existing							1								
		M1-4 (6)	24	x	24												
		M6-6R	21	x	15												
36	59+39 RT	Existing							1								
		M3-3	24	x	12												
		M1-4a (421)	30	x	24												
36	60+88 LT Relo. to 60+80 LT	Existing								1						9.9	10.8
		D1-2	72	x	30											20.7	
36	61+68 RT	Existing							1								
		R2-1 (55)	24	x	30												
36	61+72 LT	W3-2	30	x	30	6.25										11.6	11.6
36	62+21 LT	Existing							1								
		M2-1	21	x	15												
		M1-4 (6)	24	x	24												
36	62+63 LT	Existing															
		R2-1 (45)	24	x	30												
36	62+67 RT	Existing							1								
		D2-2	72	x	30												
36	63+53 LT	M2-1	21	x	15	2.19										11.7	11.7
		M1-4 (6)	24	x	24	4.00											
36	65+53 LT	Existing							1								
		W2-1															
36	65+53 LT	W2-6	30	x	30	6.25										13.3	13.3
		W13-1P (15)	18	x	18	2.25											
TOTAL THIS SHEET						53.70	3.90	0.00	3	3	1			0.00		20.7	91.2

Plc:8/24/2023 10:44:01 AM By: HuythKT Per: Transportation.tbl Model: Sign_Summary 2



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE
 DESIGNED: JJV DRAWN: ZJM
 CHECKED: REW CHECKED: REW

INDIANA
DEPARTMENT OF TRANSPORTATION

SIGN SUMMARY TABLE

SCALE	BRIDGE FILE
None	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	45 of 82
CONTRACT	PROJECT
R-43059	1702989

SHEET SIGN & POST SUMMARY

SIGN											POST									
PLAN SHEET NO. / LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN. x IN.)			GROUND - MOUNTED SIGN AREA (ft ²)			SIGN, GROUND MOUNTED, RESET EACH	SIGN, SHEET, REMOVE EACH	SIGN, SHEET, RELOCATE EACH	SQUARE								
			W	x	H	0.080" Up to 30"	0.100" 31" to 60"	0.125" 61" and over				2 1/2" X 2 1/2" - 12 GA. (TYPE 3)			2" X 2" - 12 GA. (TYPE 2)			2 1/4" X 2 1/4" - 12 GA. (TYPE 1)		
												UNREINFORCED ANCHOR POST LENGTH (FT.)			REINFORCED ANCHOR POST LENGTH (FT.)			REINFORCED ANCHOR POST LENGTH (FT.)		
1	2	TOTAL	1	2	TOTAL	1	TOTAL													
Line "E" 37	48+58 RT	Existing W3-1							1											
37	50+84 RT	W2-6 W13-1P (15)	30 18	x	30 18	6.25 2.25											12.7	12.7		
37	52+45 RT	W3-2	30	x	30	6.25											11.1	11.1		
37	53+73 RT	Existing R1-1 & W4-4P							1											
37	54+10 LT	D1-1d (600 S)	48	x	12	4.00											8.5	8.5		
37	54+13 RT	R1-2	36	36	36	3.90											10.0	10.0		
37	54+23 LT	Existing D3-1 (600 S) D3-1 (US 421)							1											
37	54+28 LT	Existing M1-4 (6) M6-1							1											
37	54+29 LT	Existing M1-4a (421) M6-4							1											
37	55+42 LT	Existing R1-1 & W4-4P							1											
37	55+48 RT	Existing R1-1 & W4-4P							1											
37	55+50 LT	Existing R1-1 & W4-4P							1											
TOTAL THIS SHEET						14.75	7.90	0.00	0	8	0			0.00			0.0		42.3	

Plct:10/2/2023 10:48:34 AM By: HuynhKT Per: Transportation.tbl Model:Sign_Summary 3



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 10-2-2023
 DESIGN ENGINEER DATE
 DESIGNED: JJV DRAWN: ZJM
 CHECKED: REW CHECKED: REW

INDIANA
DEPARTMENT OF TRANSPORTATION

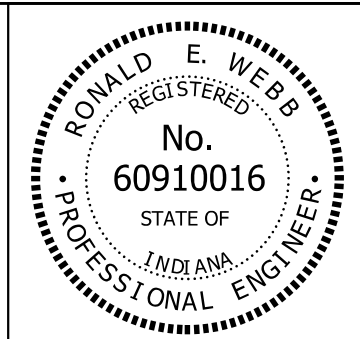
SIGN SUMMARY TABLE

SCALE	BRIDGE FILE
None	
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
	46 of 82
CONTRACT	PROJECT
R-43059	1702989

SHEET SIGN & POST SUMMARY

SIGN										POST										
PLAN SHEET NO. / LINE	SIGN LOCATION (STA.)	SIGN CODE	SIGN SIZE (IN. x IN.)			GROUND - MOUNTED SIGN AREA (ft ²)			SIGN, GROUND MOUNTED, RESET EACH	SIGN, SHEET, REMOVE EACH	SIGN, SHEET, RELOCATE EACH	SQUARE								
			W	x	H	0.080" Up to 30"	0.100" 31" to 60"	0.125" 61" and over				2 1/2" X 2 1/2" - 12 GA. (TYPE 3)			2" X 2" - 12 GA. (TYPE 2)			2 1/4" X 2 1/4" - 12 GA. (TYPE 1)		
												UNREINFORCED ANCHOR POST LENGTH (FT.)			REINFORCED ANCHOR POST LENGTH (FT.)			REINFORCED ANCHOR POST LENGTH (FT.)		
			1	2	TOTAL	1	2	TOTAL				1	TOTAL							
Line "E"																				
37	55+68 LT	R1-2	36	36	36		3.90										10.8	10.8		
37	55+68 RT	M3-2	24	x	12	2.00											11.5	11.5		
		M1-4 (6)	24	x	24	4.00														
		M6-3	21	x	15	2.19														
37	56+66 RT	Existing								1							10.2	10.2		
	Relo. to 56+80 RT	M3-2	24	x	12															
		M1-4 (6)	24	x	24															
38	59+41 LT	Existing								1										
		M1-4a (421)	30	x	24															
		M6-4	21	x	15															
38	59+42 LT	Existing								1										
		M1-4 (6)	24	x	24															
		M6-1R	21	x	15															
38	59+69 LT	M3-4	24	x	12	2.00											15.5	15.5		
		M1-4 (6)	24	x	24	4.00														
		M3-1	24	x	12	2.00														
		M1-4a (421)	30	x	24	5.00														
		M5-1R	21	x	15	2.19														
38	59+69 LT	M3-3	24	x	12	2.00											12.0	12.0		
		M1-4a (421)	30	x	24	5.00														
		M5-1L	21	x	15	2.19														
38	61+69 LT	M2-1	21	x	15	2.19											11.0	11.0		
		M1-4a (421)	30	x	24	5.00														
38	61+89 LT	Existing																		
	Relo. to 57+69 LT	D1-2	72	x	30					1			10.3	11.2	21.5					
38	63+69 LT	W2-6	30	x	30	6.25											13.3	13.3		
		W13-1P (15)	18	x	18	2.25														
38	63+80 LT	Existing								1										
		W3-1																		
38	63+80 RT	Existing								1										
		W3-1																		
Line "CIR"																				
37	10+03 LT	R6-1R	36	x	12	3.00							8.5	8.5	17.0					
		R6-4b	60	x	24	10.00														
35	10+88 LT	R6-1R	36	x	12	3.00							8.1	8.1	16.2					
		R6-4b	60	x	24	10.00														
37	11+66 LT	R6-1R	36	x	12	3.00							8.6	8.6	17.2					
		R6-4b	60	x	24	10.00														
35	12+60 LT	R6-1R	36	x	12	3.00							8.1	8.1	16.2					
		R6-4b	60	x	24	10.00														
TOTAL THIS SHEET						60.26	43.90	0.00	0	4	2				0.0		88.1		84.3	
TOTAL SHEET 1						34.07	3.90	0.00	1	4	4				0.0		21.5		91.8	
TOTAL SHEET 2						53.70	3.90	0.00	3	3	1				0.0		20.7		91.2	
TOTAL SHEET 3						14.75	7.90	0.00	0	8	0				0.0		0.0		42.3	
OVERALL TOTAL						163	60	0	4	19	7					0		131		310

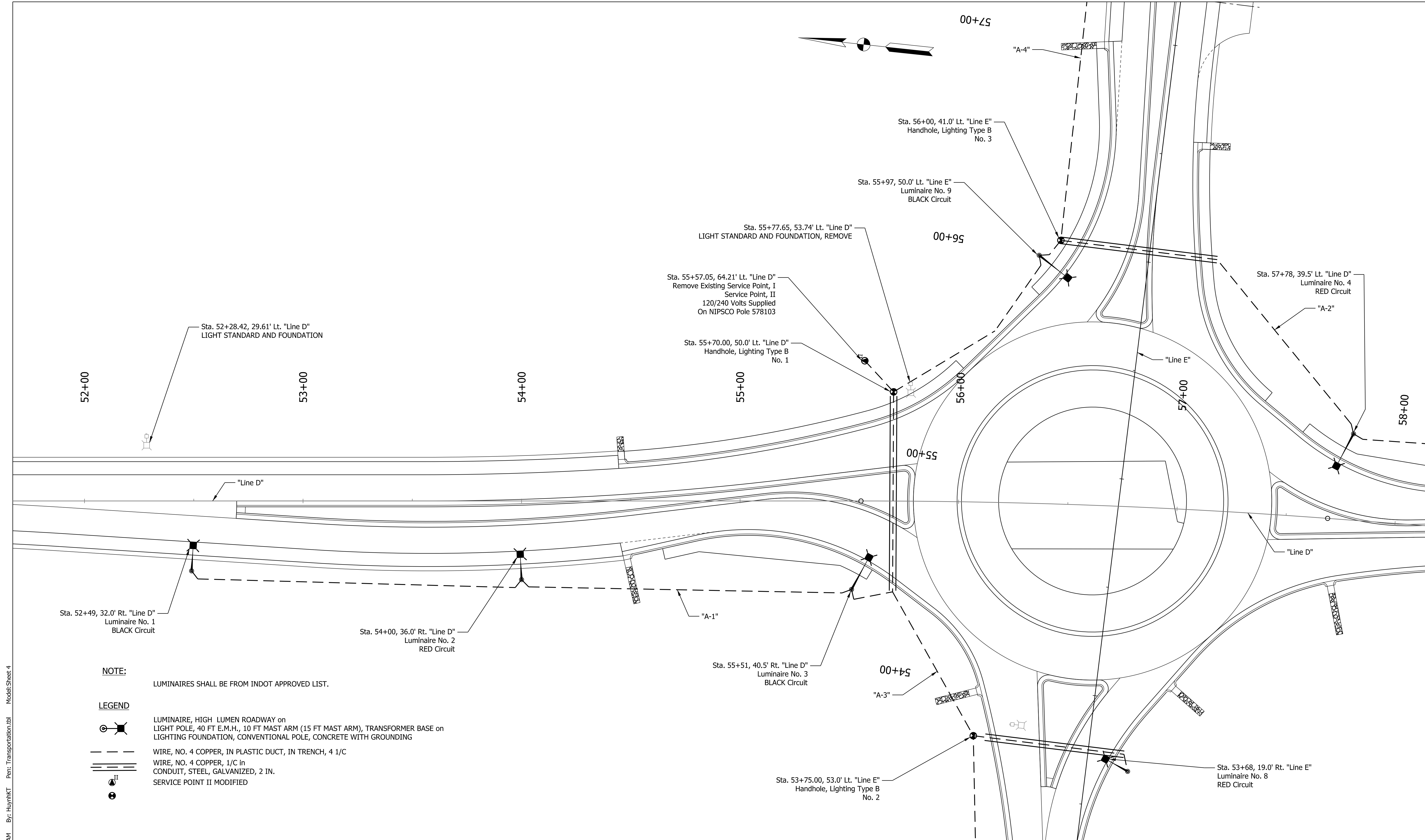
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RECOMMENDED FOR APPROVAL *Ronald E. Webb* 10-2-2023 DATE
 DESIGN ENGINEER
 DESIGNED: JJV DRAWN: ZJM
 CHECKED: REW CHECKED: REW

INDIANA DEPARTMENT OF TRANSPORTATION
SIGN SUMMARY TABLE

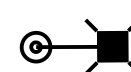
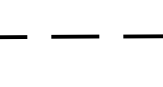
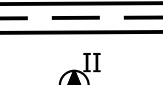

SCALE	BRIDGE FILE
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	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
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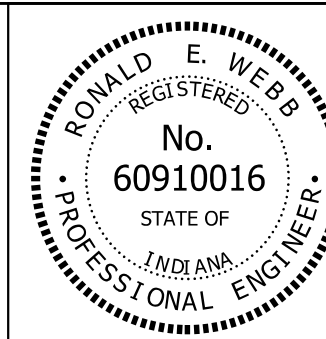
NOTE:

LUMINAIRES SHALL BE FROM INDOT APPROVED LIST.

LEGEND

-  LUMINAIRE, HIGH LUMEN ROADWAY on LIGHT POLE, 40 FT E.M.H., 10 FT MAST ARM (15 FT MAST ARM), TRANSFORMER BASE on LIGHTING FOUNDATION, CONVENTIONAL POLE, CONCRETE WITH GROUNDING
-  WIRE, NO. 4 COPPER, IN PLASTIC DUCT, IN TRENCH, 4 1/C
-  WIRE, NO. 4 COPPER, 1/C in CONDUIT, STEEL, GALVANIZED, 2 IN.
-  SERVICE POINT II MODIFIED

Model: Sheet 4
 Pen: Transportation.tbl
 By: HuythKT
 10:45:45 AM
 8/24/2023
 Z:\Infra\2019\190007.00 - INDOT LaPorte US 6 RAB\CAD\Production Drawings\190007.00 - Lighting Plan.dgn



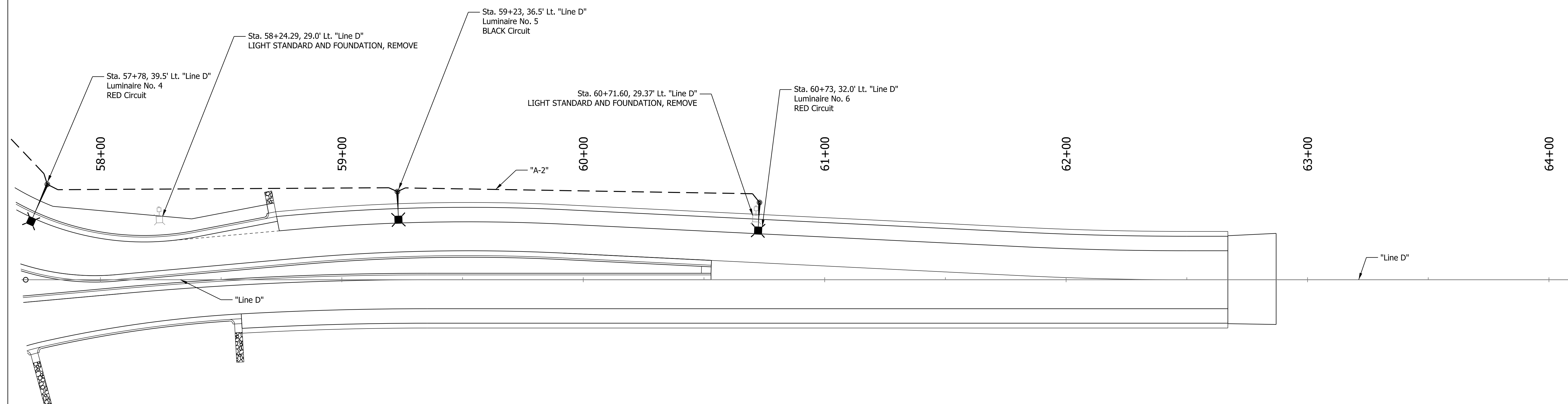
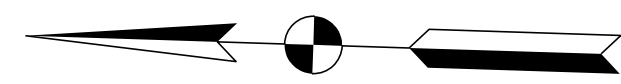
RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE

DESIGNED: MJS DRAWN: KTH
 CHECKED: REW CHECKED: MJS

INDIANA
 DEPARTMENT OF TRANSPORTATION

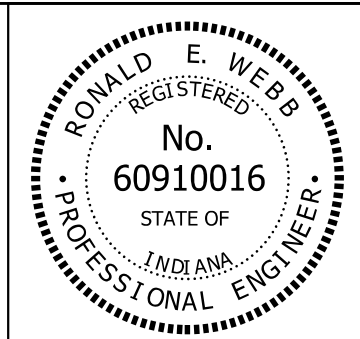
LIGHTING DETAILS
 "LINE D"

SCALE	BRIDGE FILE
	DESIGNATION
	1702989
SURVEY BOOK	SHEETS
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CONTRACT	PROJECT
R-43059	1702989



- NOTE:**
LUMINAIRES SHALL BE FROM INDOT APPROVED LIST.
- LEGEND**
- LUMINAIRE, HIGH LUMEN ROADWAY on LIGHT POLE, 40 FT E.M.H., 10 FT MAST ARM (15 FT MAST ARM), TRANSFORMER BASE on LIGHTING FOUNDATION, CONVENTIONAL POLE, CONCRETE WITH GROUNDING
 - WIRE, NO. 4 COPPER, IN PLASTIC DUCT, IN TRENCH, 4 1/C
 - WIRE, NO. 4 COPPER, 1/C in CONDUIT, STEEL, GALVANIZED, 2 IN.
 - SERVICE POINT II MODIFIED
 - HANDHOLE LIGHTING

Plot: 8/24/2023 10:45:53 AM By: HuythKT Pen: Transportation.tbl Model: Sheet 5

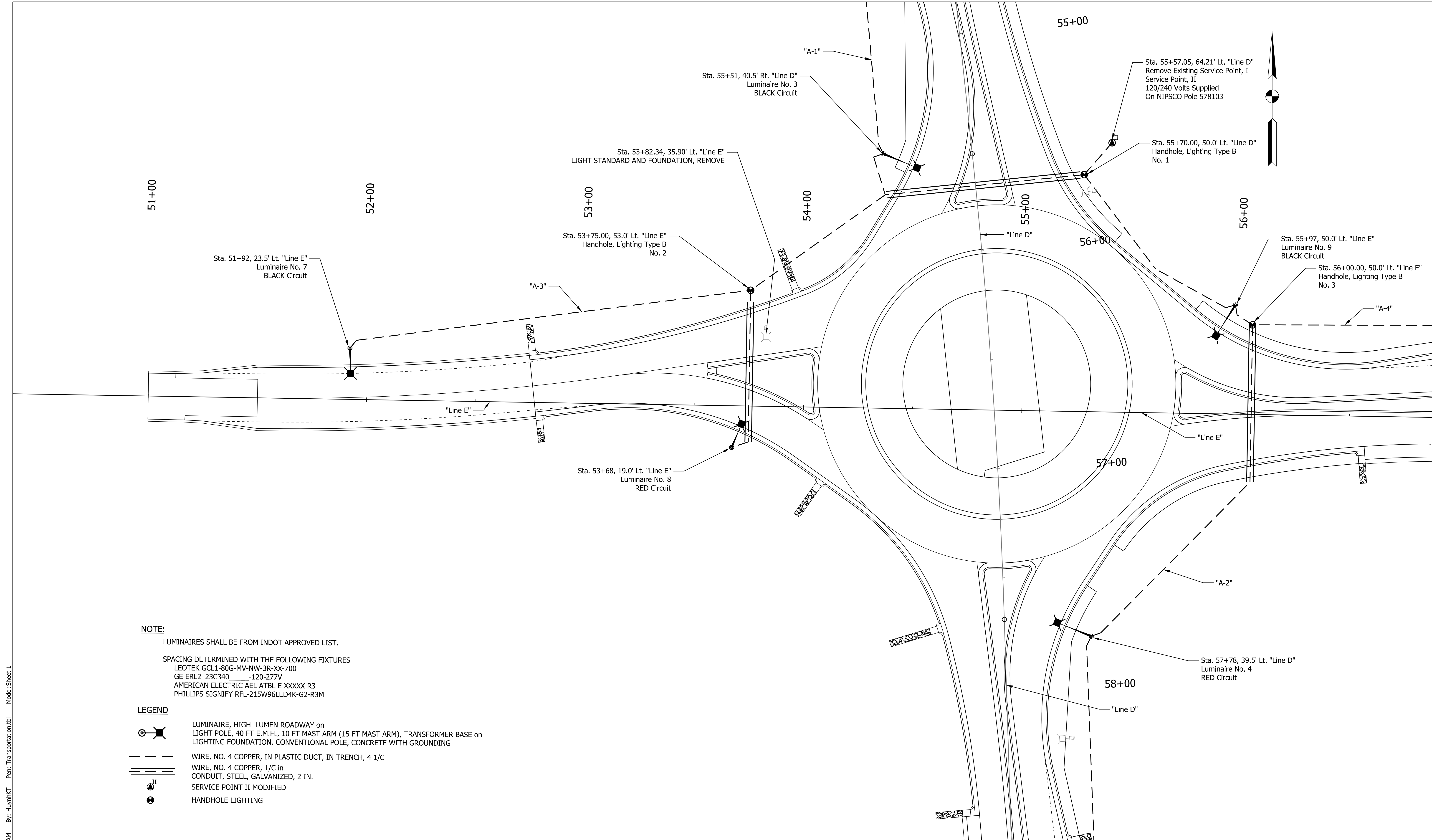


RECOMMENDED FOR APPROVAL	<i>Ronald E. Webb</i>	8-24-2023
	DESIGN ENGINEER	DATE
DESIGNED: MJS	DRAWN: KTH	
CHECKED: REW	CHECKED: MJS	

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 LIGHTING DETAILS
 "LINE D"

SCALE	BRIDGE FILE
	DESIGNATION
	1702989
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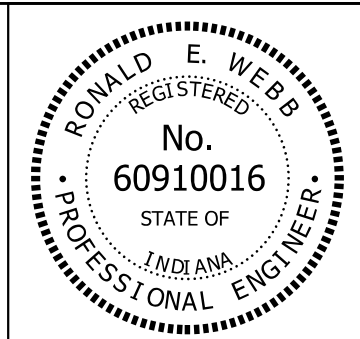


NOTE:
 LUMINAIRES SHALL BE FROM INDOT APPROVED LIST.
 SPACING DETERMINED WITH THE FOLLOWING FIXTURES
 LEOTEK GCL1-80G-MV-NW-3R-XX-700
 GE ERL2_23C340 -120-277V
 AMERICAN ELECTRIC AEL ATBL E XXXXX R3
 PHILLIPS SIGNIFY RFL-215W96LED4K-G2-R3M

LEGEND

- LUMINAIRE, HIGH LUMEN ROADWAY on LIGHT POLE, 40 FT E.M.H., 10 FT MAST ARM (15 FT MAST ARM), TRANSFORMER BASE on LIGHTING FOUNDATION, CONVENTIONAL POLE, CONCRETE WITH GROUNDING
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- WIRE, NO. 4 COPPER, 1/C in CONDUIT, STEEL, GALVANIZED, 2 IN.
- SERVICE POINT II MODIFIED
- HANDHOLE LIGHTING

Plot: 8/24/2023 10:45:59 AM By: HuythKT Per: Transportation.tbl Model: Sheet 1



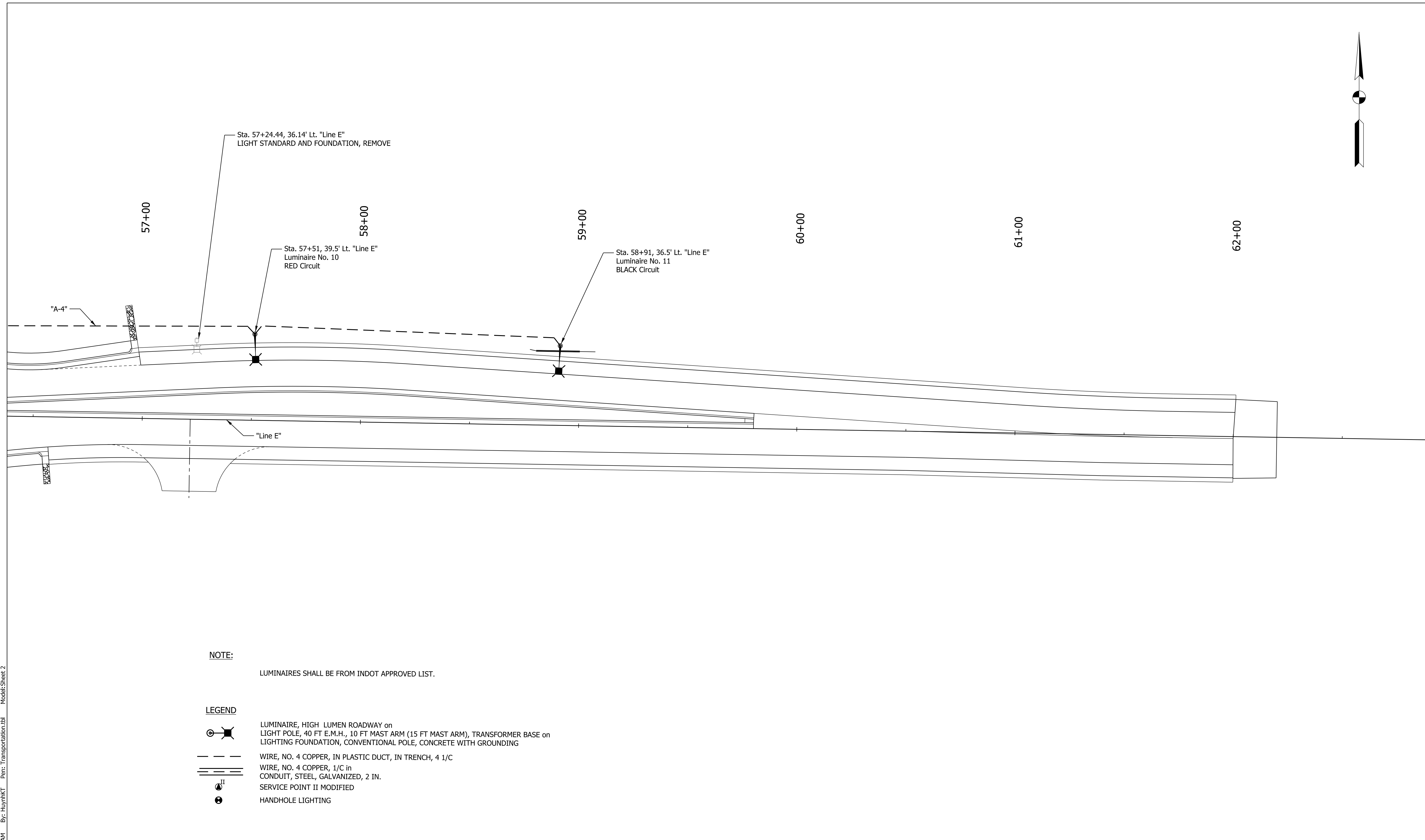
RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
 DESIGN ENGINEER DATE

DESIGNED: MJS DRAWN: KTH
 CHECKED: REW CHECKED: MJS

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LIGHTING DETAILS
 "LINE E"

SCALE	BRIDGE FILE
	DESIGNATION
	1702989
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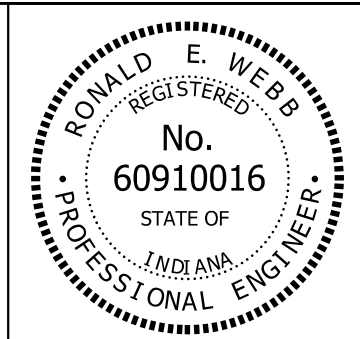
NOTE:

LUMINAIRES SHALL BE FROM INDOT APPROVED LIST.

LEGEND

- LUMINAIRE, HIGH LUMEN ROADWAY on LIGHT POLE, 40 FT E.M.H., 10 FT MAST ARM (15 FT MAST ARM), TRANSFORMER BASE on LIGHTING FOUNDATION, CONVENTIONAL POLE, CONCRETE WITH GROUNDING
- WIRE, NO. 4 COPPER, IN PLASTIC DUCT, IN TRENCH, 4 1/C
- WIRE, NO. 4 COPPER, 1/C in CONDUIT, STEEL, GALVANIZED, 2 IN.
- SERVICE POINT II MODIFIED
- HANDHOLE LIGHTING

Plc:8/24/2023 10:46:07 AM By: HuynhKT Per: Transportation.tbl Model:Sheet 2



RECOMMENDED FOR APPROVAL	<i>Ronald E. Webb</i>	8-24-2023
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CHECKED: REW	CHECKED: MJS	

INDIANA
 DEPARTMENT OF TRANSPORTATION

LIGHTING DETAILS
"LINE E"

SCALE	BRIDGE FILE
	DESIGNATION
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CONTRACT	PROJECT
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CONVENTIONAL LIGHT STANDARD - LUMINAIRE TABLE

ID NUMBER	1	2	3	4	5	6	7	8	9	10	11								
LUMINAIRE ID	1	2	3	4	5	6	7	8	9	10	11								
IES DISTRIBUTION TYPE	III	III	III	III	III	III	III	III	III	III	III								
	EDGE OF PAVEMENT	13.3	13.1			13.0	13.0	8.6			12.1	13.0							
	EDGE OF SHOULDER	7.3	7.1			7.0	7.0	7.6			6.1	7.0							
* DISTANCE IS SET-FORWARD FROM FRONT OF SIDEWALK	BACK OF CURB			12.5	12.5				7.9	12.2									
	BACK OF SIDEWALK																		
FOUNDATION TYPE (SEE LEGEND BELOW)	G	G	G	G	G	G	G	G	G	G	G								
MOUNTING HEIGHT (MH) (FT)	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0								
EDGE OF PAVEMENT (EP) ELEVATION (FT)	793.22	793.47	794.17	794.70	792.17	790.33	791.85	793.66	795.41	794.84	794.25								
TOP OF FOUNDATION ELEVATION (FT)	792.15	792.43	792.84	793.37	791.15	789.32	790.73	793.26	793.39	794.01	793.24								
ELEVATION VARIANCE (FT) (FROM EP ELEVATION)	-1.07	-1.04	-1.33	-1.33	-1.02	-1.01	-1.12	-0.40	-2.02	-0.83	-1.01								
EFFECTIVE MOUNTING HEIGHT (EMH) (FT) **	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0	40.0								
MAST ARM LENGTH (FT)	10.0	10.0	15.0	15.0	10.0	10.0	10.0	10.0	15.0	10.0	10.0								
LUMINAIRE TILT (DEGREES)	0	0	0	0	0	0	0	0	0	0	0								
CIRCUIT NUMBER	"A-1"	"A-1"	"A-1"	"A-2"	"A-2"	"A-2"	"A-3"	"A-3"	"A-4"	"A-4"	"A-4"								
CIRCUIT CONNECTION (RED OR BLACK)	51+92, 23.5' Lt. Line B Luminaire No. 7 BLACK Circuit	R	B	R	B	R	B	R	B	R	B								
CONNECTION TYPE (PER E807-LTWR-01)		2	2	2	2	1	1	1	2	2	1								
ORIENTATION ANGLE (SEE DETAIL)	0	0	0	0	0	0	0	0	0	0	0								
ORIENTATION REF. LINE (SEE LEGEND & DETAIL)	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP	EP								

** INDICATES POLE HEIGHT FOR QUANTITY PURPOSES

POLE SETBACK:

EX = USE EXISTING ANCHOR BOLTS IN BRIDGE RAILING

MAST ARM LENGTH:

EX = EXISTING POLE & MAST ARM TO REMAIN
PT = POST TOP MOUNTING

FOUNDATION TYPES:

G = LIGHT STANDARD FOUNDATION, 3 FT. DIA. X 8 FT. (GROUND MOUNTED)

BR = LIGHTING FOUNDATION ON BRIDGE RAILING

BW = BARRIER WALL

ORIENTATION REF. LINE:

EP = EDGE OF PAVEMENT

ES = EDGE OF SHOULDER

BC = BACK OF CURB

BW = BACK OF WALK

SL = STATION LINE

EXISTING LIGHT POLES

ID NUMBER	STATION	LINE	OFFSET	SIDE	Pole
1	52+28.40	D	29.6	LT.	Remove
2	55+76.70	D	55.6	LT.	Remove
3	58+24.70	D	29.5	LT.	Remove
4	60+71.60	D	29.4	LT.	Remove
5	53+42.00	E	47.9	LT.	Remove
6	57+24.40	E	36.1	LT.	Remove

PROPOSED LIGHT POLES

ID NUMBER	STATION	LINE	OFFSET	SIDE	Pole
1	52+49.00	D	32.0	RT.	
2	54+00.00	D	36.0	RT.	
3	55+51.00	D	40.5	RT.	
4	57+78.00	D	39.5	LT.	
5	59+23.00	D	47.9	LT.	
6	60+73.00	D	36.1	LT.	
7	51+92.00	E	23.5	LT.	
8	53+68.00	E	19.0	RT.	
9	55+97.00	E	50.0	LT.	
10	57+51.00	E	39.5	LT.	
11	58+91.00	E	36.5	LT.	

LIGHTING DESIGN TABLE

INITIAL LAMP LUMENS (LL) FOR LED	ABSOLUTE	
AVERAGE MAINTAINED HORIZONTAL ILLUMINANCE (Eh)	1.8	Ex. 8-1 NCHRP 672
MINIMUM HORIZONTAL ILLUMINANCE	0.5	
LIGHT LOSS FACTOR	0.80 to 0.87	See Table Below
AVERAGE/MINIMUM UNIFORMITY RATIO	3	Ex. 8-1 NCHRP 672
PERCENTAGE VOLTAGE DROP ALLOWED	10%	Fig 502-4D
MOUNTING HEIGHT (MH) (GROUND MOUNTED)	40 ft	
EFFECTIVE MOUNTING HEIGHT (EMH)	VARIES	
LUMINAIRE CLASSIFICATION	SEE LUMINAIRE TABLE	

INDOT CMS 920.01d Luminaires shall exhibit a color temperature in the range of 3500K to 4500K per ANSI C78.377 and a minimum Color Rendering Index of 70 as verified by the IESNA LM-79 test.

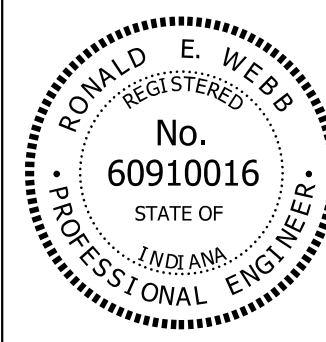
SERVICE POINT DATA

SERVICE POINT DATA	TYPE	MAIN BREAKER	BRANCH CIRCUIT	COMPUTED AMPERAGE		BRANCH CIRCUIT BREAKER	VOLTAGE DROP	
				RED	BLACK		RED	BLACK
A	II	200 AMP	A-1	1.1	2.2	30 AMP	0.077%	0.362%
			A-2	2.2	1.1	30 AMP	0.290%	0.100%
			A-3	1.1	1.1	30 AMP	0.071%	0.101%
			A-4	1.1	2.2	30 AMP	0.052%	0.221%

HANDHOLES

TYPE	ID NUMBER	STATION	LINE	OFFSET	SIDE
B	1	55+70.00	D	50.0	LT.
B	2	53+75.00	E	53.0	LT.
B	3	56+00.00	E	41.0	LT.

Plc:8/24/2023 10:46:14 AM By: HuythKT Per: Transportation.tbl Model:Sheet 6



RECOMMENDED FOR APPROVAL *Ronald E. Webb* 8-24-2023
DESIGN ENGINEER DATE

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LIGHTING DETAILS

SCALE BRIDGE FILE

DESIGNATION
1702989

SURVEY BOOK SHEETS

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CONTRACT PROJECT

R-43059 1702989

STRUCTURE DATA																																			
STRUCTURE NUMBER	LOCATION					PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE	STR. RIM ELEVATION	LENGTH	SKEW	COVER	FLOW LINE		SERVICE LIFE	SITE DESIGNATION	PH	BACKFILL METHOD	BACKFILL TYPE	STRUCTURE BACKFILL	COMPACTED EARTH BACKFILL	CONCRETE CLASS "A" FOR STRUCTURE	UNIFORM RIPRAP	GEOTEXTILE FOR RIPRAP TYPE 1A	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR. NO.	REMARKS			
	STATION	LEFT	RIGHT	CROSS	OFFSET							SIZE	UP STREAM												DOWN STREAM	YR.	EA.	TYPE	SLOPE	EA.			TYPE	SLOPE	EA.
	Line "PR-DN"																																		
10	55+45		X		44.0	18	2																								11	Remove Exist 15" CMP			
	Line "PR-DN-ENT"																																		
11	55+50.9		X			18	2	Inlet C-15	793.93		52																					12	Remove Exist 15" CMP		
	Line "PR-DN-EXT"																																		
12	55+47.7	X				18	2	Inlet C-15	794.15		29																					Outfall	Remove Exist 15" CMP		
	Line "CIR"																																		
13	13+17.4	X			32.8	18	2	Inlet F-7	794.41		109																					Outfall			
	Line "PR-DS"																																		
14	57+21		X		74.3	18	2																									13			

PIPE MATERIALS			
INT. DES.	CONC.	PLASTIC PIPE	CLAY
STRUCTURE NUMBER	10	11, 13, 14	12
PIPE TYPE / SHAPE (CIR, DEF)	2 / CIR	2 / CIR	2 / CIR
SMOOTH PIPE SIZE	18	18	18
CORRUGATED PIPE SIZE	N.A.	N.A.	N.A.
SEMI-SMOOTH PIPE SIZE	N.A.	N.A.	N.A.
CLASS	II	II	II
D ₉₀ RATING	1000	1000	1000
NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)	X	X	X
CORRUGATED PE PIPE, TYPE S (S)*	X	X	X
PROFILE WALL (RIBBED) PE PIPE (S)*	X	X	X
PROFILE WALL (CLOSED) PE PIPE (S)*	X	X	X
SMOOTH WALL PE PIPE (S)* / MAXIMUM DR	26	26	26
CORRUGATED PP PIPE (S)	X	X	X
PROFILE WALL PVC PIPE (S)	X	X	X
SMOOTH WALL PVC PIPE (S)*	X	X	X
VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)	X	X	X
FULLY BIT. PAVED & LINED (S)			
ZINC COATED (C)			
ZINC COATED W/ BPI (C)			
ALUM. COATED TYPE 2 (C)			
POLYMER PRECOATED GALVANIZED (C)			
POLYMER PRECOATED GALVANIZED CORRUGATED STEEL PIPE TYPE 1A (S)			
CORRUGATED ALUM. ALLOY (C)			
CORRUGATED ALUM. ALLOY W/ BPI (C)			
ZINC COATED (SS)			
ZINC COATED W/ BPI (SS)			
ALUM. COATED TYPE 2 (SS)			
POLYMER PRECOATED GALVANIZED (SS)			
STR. PLATE ALUMINUM ALLOY (C)			
STR. PLATE ALUMINUM ALLOY W/ CFP (C)			
STR. PLATE STEEL (C)			
STR. PLATE STEEL W/ CFP (C)			

LEGEND

PIPE MATERIAL
RCP: Reinforced Concrete Pipe
RCHEP: Reinforced Concrete Horizontal Elliptical Pipe
PE: Polyethylene
DR: Dimension Ratio
PVC: Polyvinyl Chloride
PP: Polypropylene
CORR: Corrugation
ALUM: Aluminum
STR: Structural
(LS): Lock Seam Pipe Required

PIPE PROTECTION
BPI: Bituminous Paved Invert
CFP: Concrete Field Paving
BIT: Bituminous

SHAPE
CIR: Circular Pipe
DEF: Deformed Pipe

INTERIOR DESIGNATION
(S): Smooth Pipe Material
(C): Corrugated Pipe Material
(SS): Semi-Smooth Pipe Material

PIPE SIZE
Circular pipe is shown as diameter in inches
Deformed pipe is shown as area in square feet

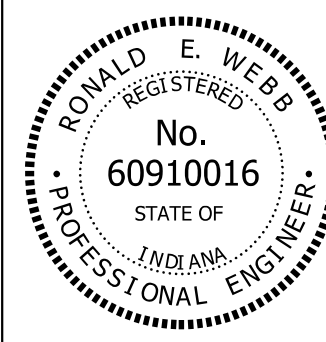
* Refer to Standard Drawings 715-PHCL-20 through -22 for nominal diameter appropriate for pay item diameter.

** Tabulated thickness refers to top and side plates. For pipes and pipe-arches with a thickness less than .280 in., bottom plates shall be of next greater available thickness.

RIGHT OF WAY MARKER			
Line	Station	LT / RT	Offset (ft)
"D"	51+00	RT	39.06
	53+50	RT	55.00
"PR-DN"	55+00	RT	60.00
	55+70	RT	75.00
"E"	51+00	LT	19.73
	51+50	LT	30.00
"PR-EW"	53+00	LT	40.00
	53+75	LT	50.00
Number of Markers		8	

MONUMENT, SECTION CORNER				
Line	Station	Offset	Northing	Easting
"D"	56+74.26	1.57' LT	343477.015	747930.153
Harrison Monument in place. LaPorte County Surveyor shall be coordinated with on location of this monument.				
Number of Monuments		1		

Plc:8/24/2023 10:48:57 AM By: HuythnKT Pen: Transportation.tbl Model: Misc. Tables



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 DESIGN ENGINEER DATE

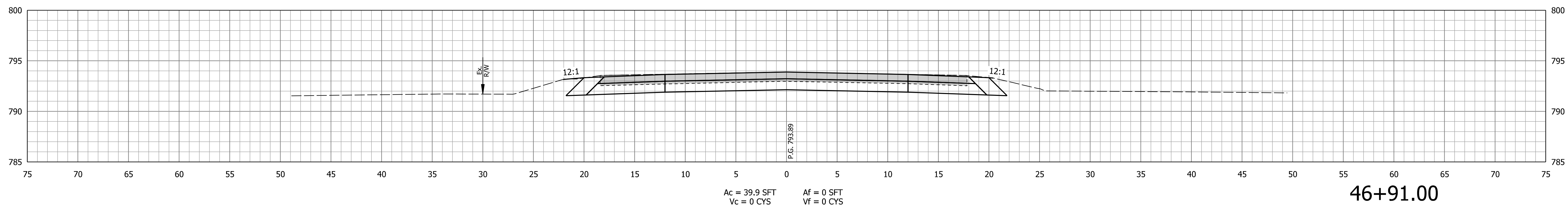
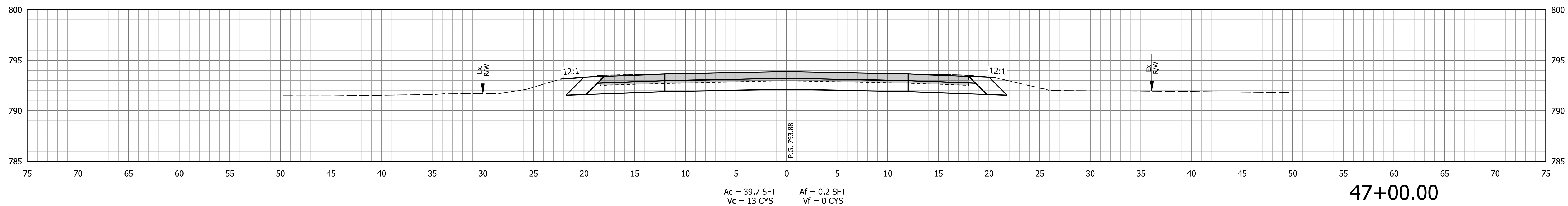
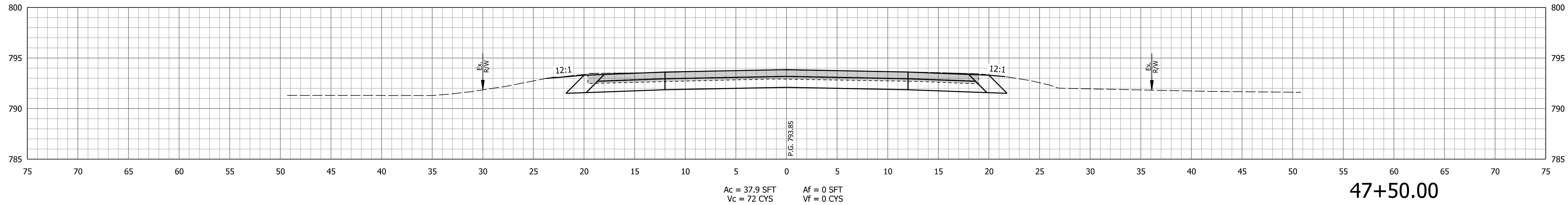
DESIGNED: JJV DRAWN: ZJM
 CHECKED: REW CHECKED: REW

INDIANA
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STRUCTURE DATA, PIPE MATERIALS, &
 MISCELLANEOUS TABLES

SCALE	BRIDGE FILE
None	
	DESIGNATION
	1702989
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CONTRACT	PROJECT
R-43059	1702989

Plot: 8/24/2023 10:50:37 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-DN



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CHECKED: REW CHECKED: JJV

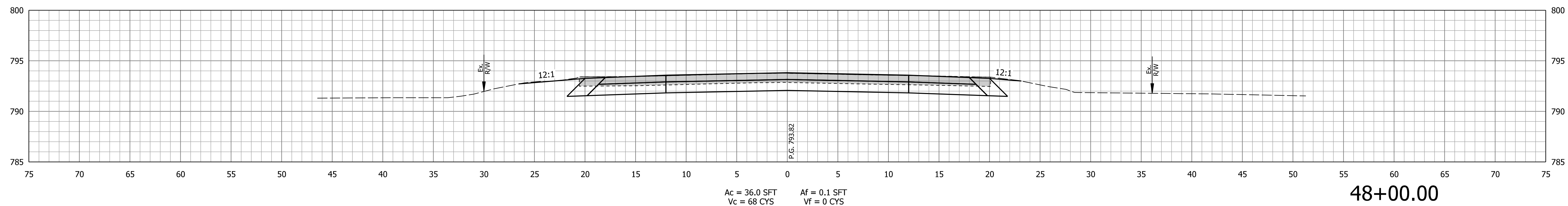
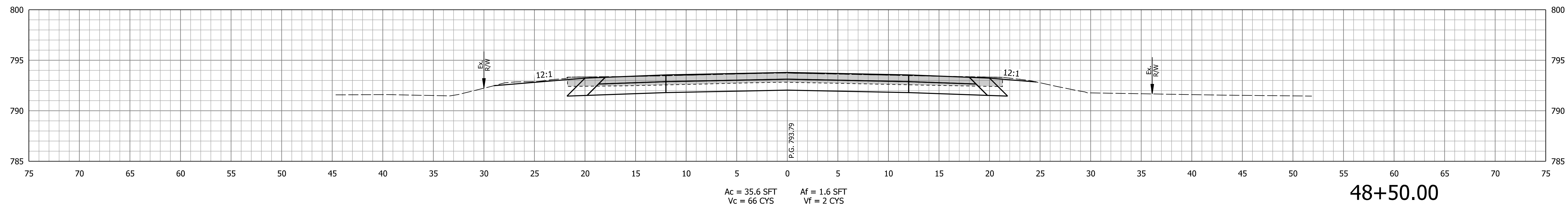
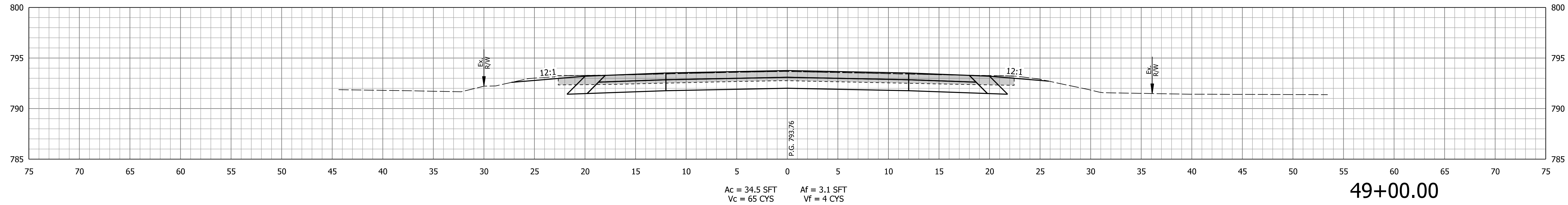
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-DN"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	58 of 82
CONTRACT	PROJECT
R-43059	1702989

STA. 46+91.00 TO STA. 47+50.00

Plot: 8/24/2023 10:50:42 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-DN



STA. 48+00.00 TO STA. 49+00.00



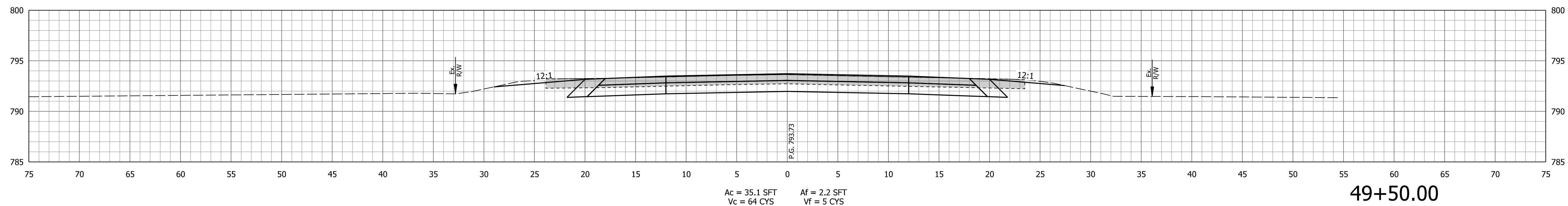
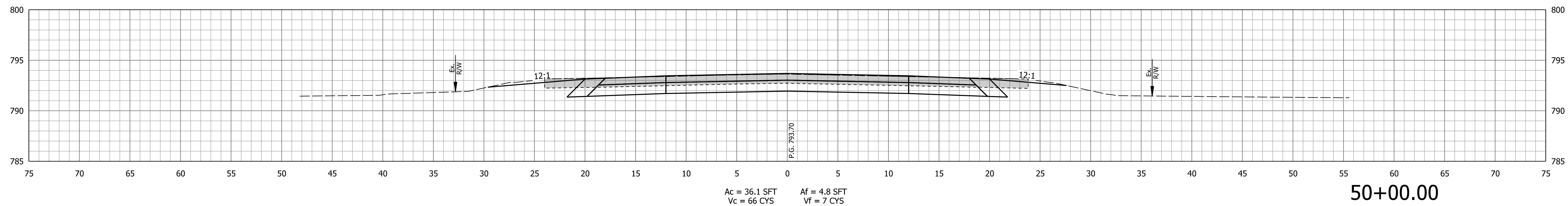
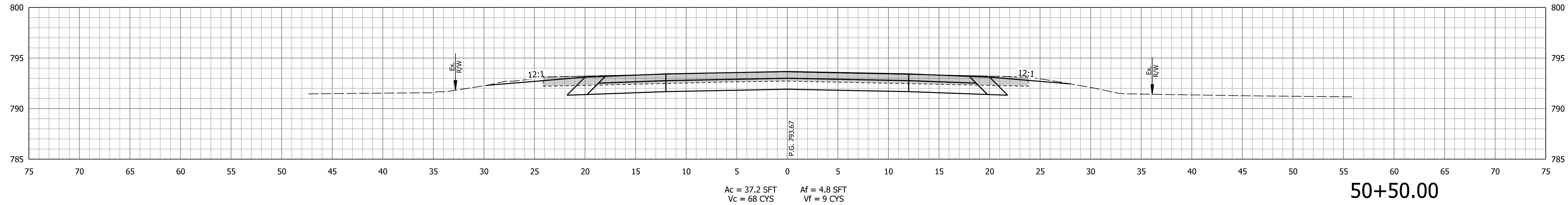
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LINE "PR-DN"**

SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 59 of 82
CONTRACT R-43059	PROJECT 1702989

Plot: 8/24/2023 10:50:47 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-DN



STA. 49+50.00 TO STA. 50+50.00



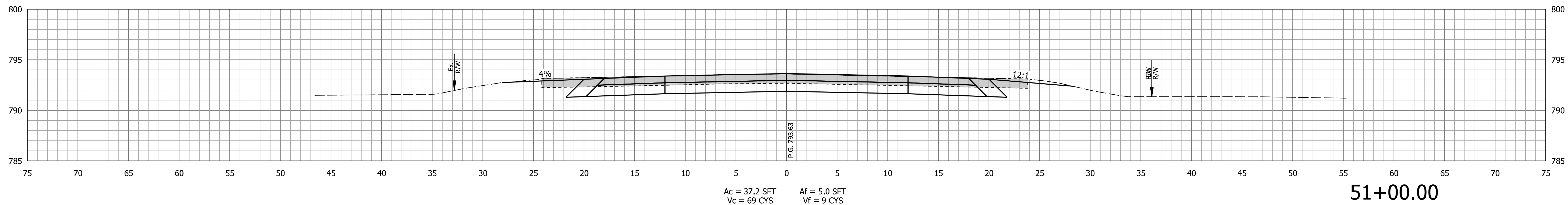
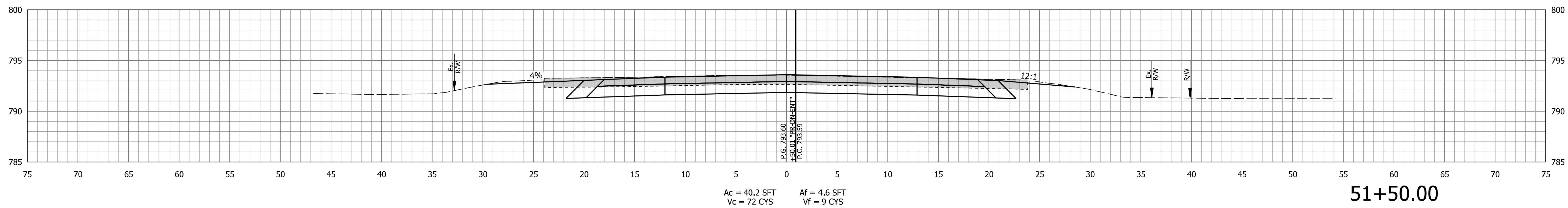
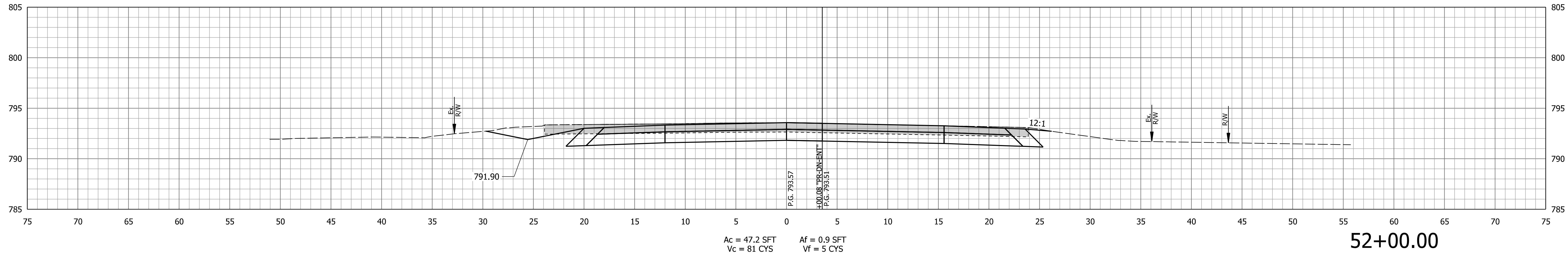
RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____
 DESIGNED: JJV _____ DRAWN: KTH _____
 CHECKED: REW _____ CHECKED: JJV _____

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-DN"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	60 of 82
CONTRACT	PROJECT
R-43059	1702989

Plot: 8/24/2023 10:50:53 AM By: HuynhKT Per: Transportation.tbl Model: Cross Sections PR-DN



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: JJV	DRAWN: KTH	
CHECKED: REW	CHECKED: JJV	

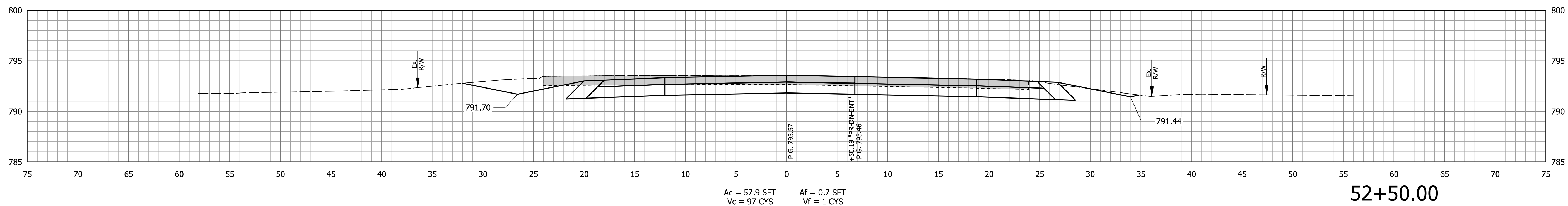
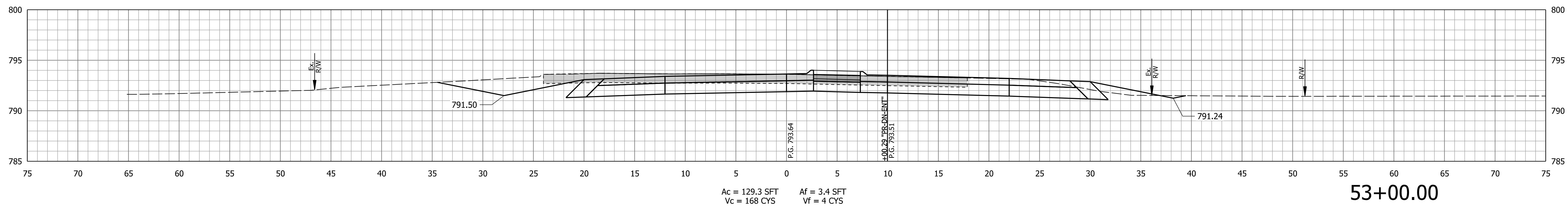
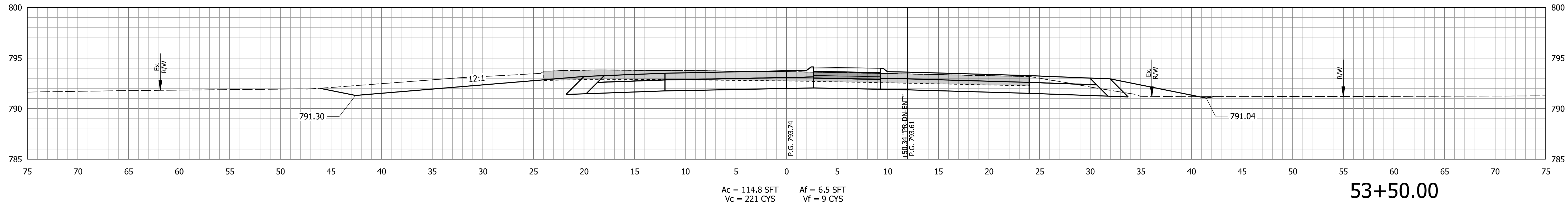
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-DN"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	61 of 82
CONTRACT	PROJECT
R-43059	1702989

STA. 51+00.00 TO STA. 52+00.00

Plot: 8/24/2023 10:50:59 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-DN



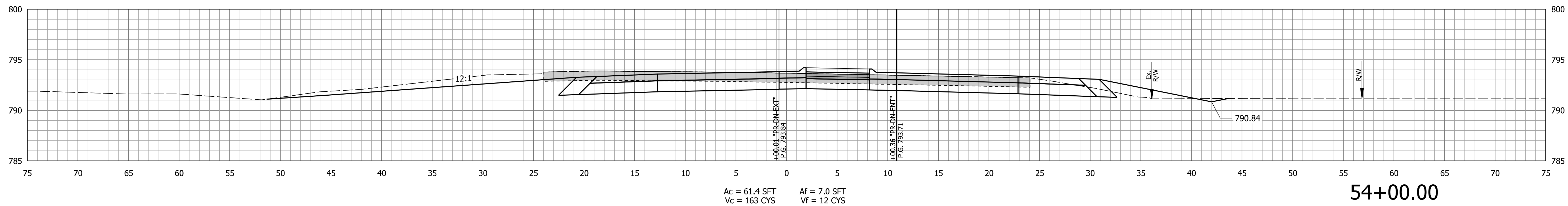
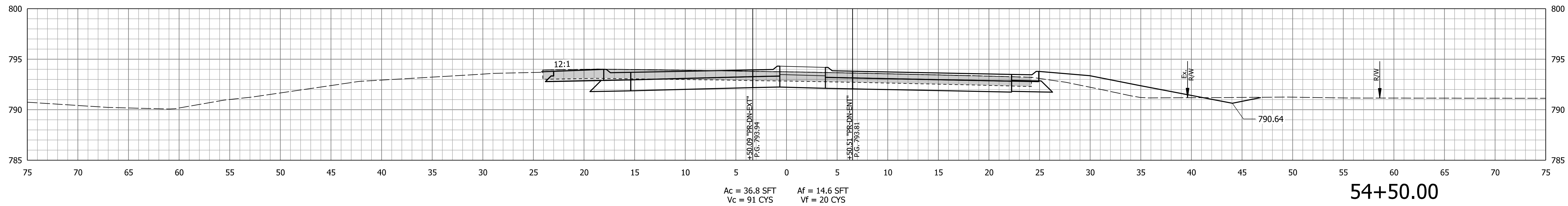
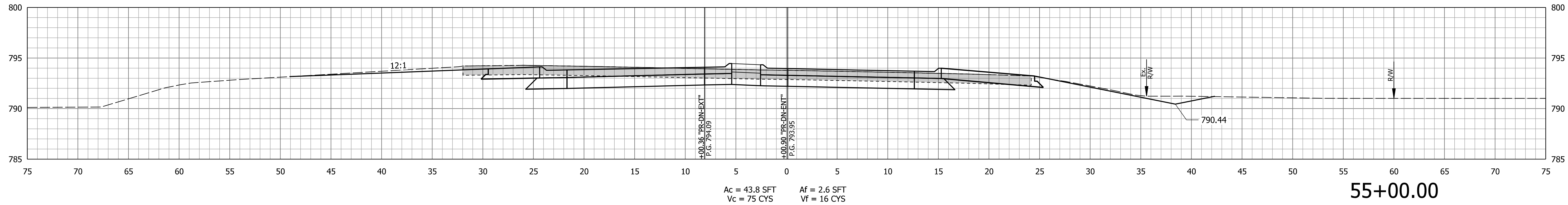
RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____
 DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: JJV

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "PR-DN"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	62 of 82
CONTRACT	PROJECT
R-43059	1702989

Plot: 8/24/2023 10:51:04 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-DN



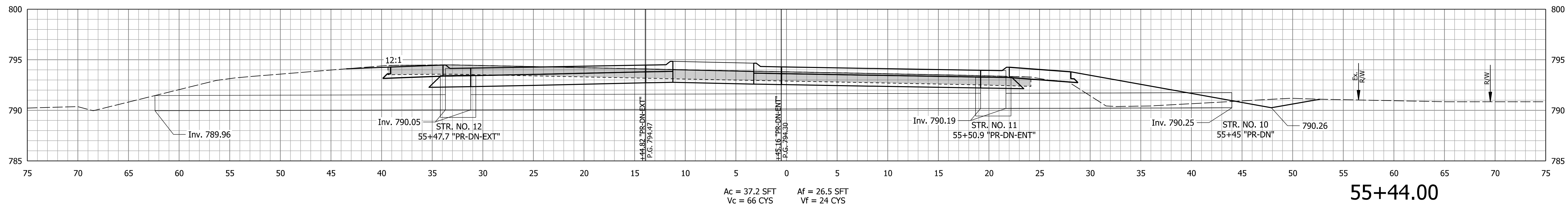
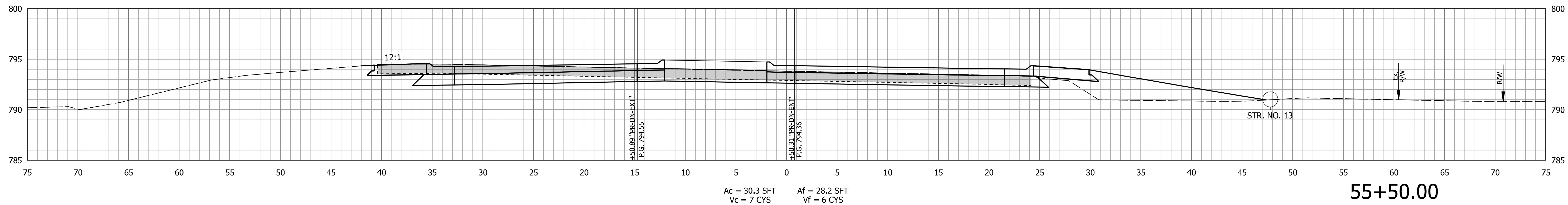
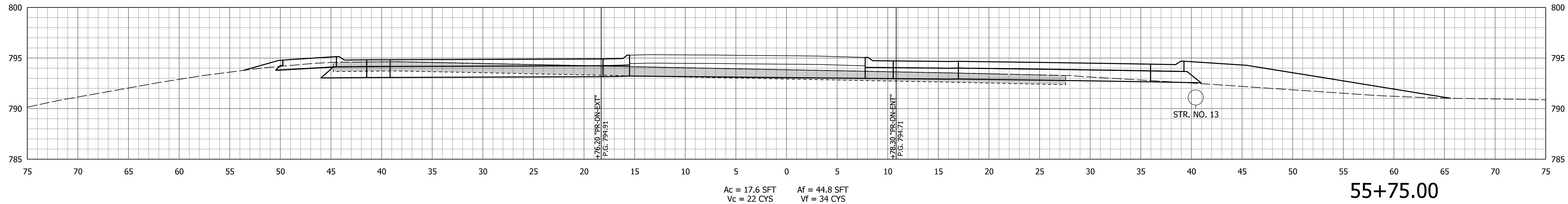
RECOMMENDED FOR APPROVAL _____
DESIGNED: JJV DRAWN: KTH
CHECKED: REW CHECKED: JJV

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-DN"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	63 of 82
CONTRACT	PROJECT
R-43059	1702989

Plot: 8/24/2023 10:51:08 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-DN



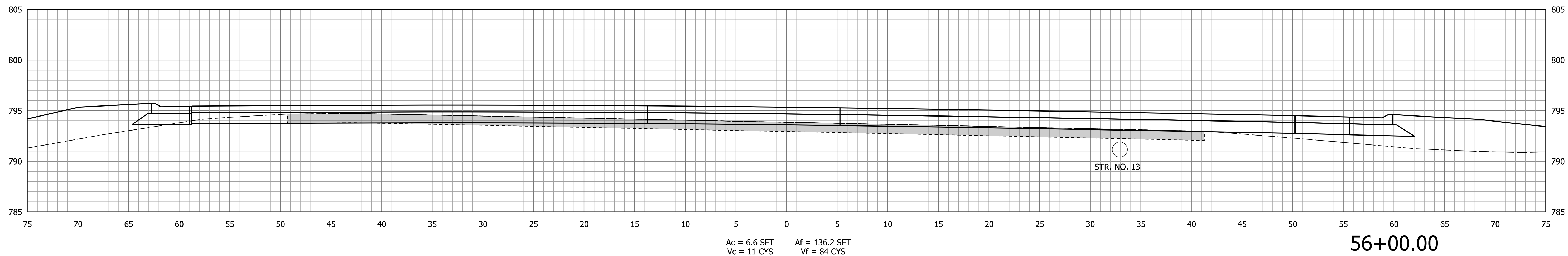
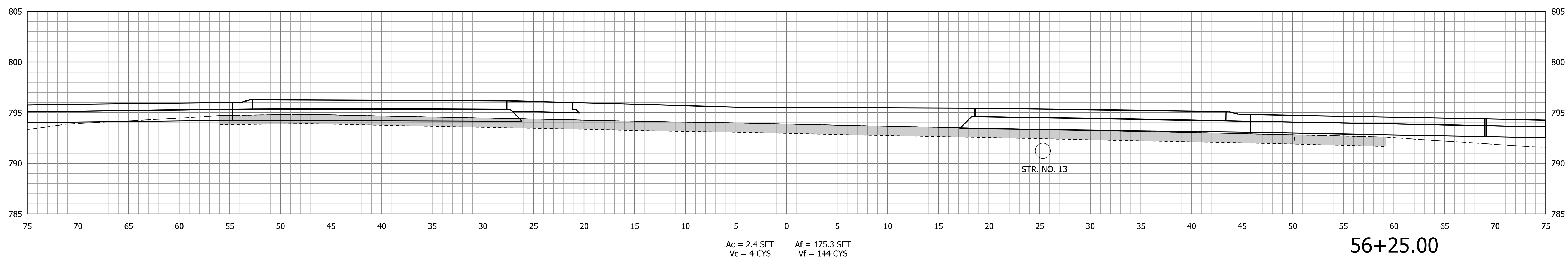
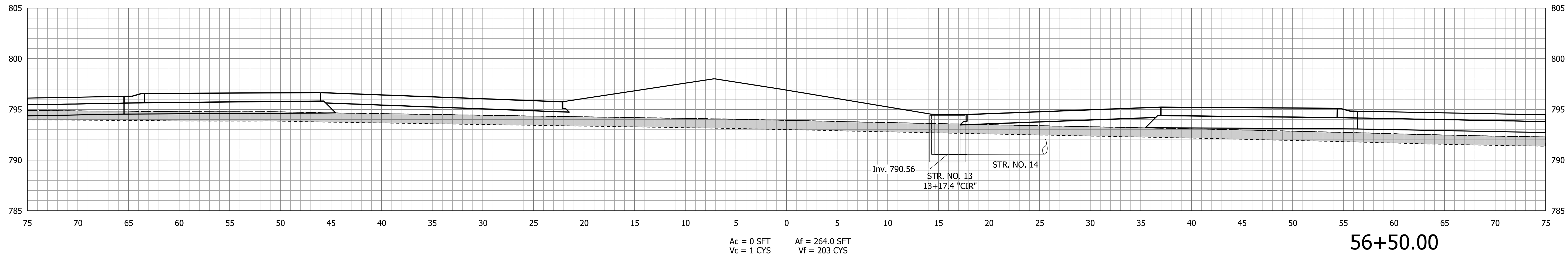
RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____
 DESIGNED: JJV DRAWN: KTH
 CHECKED: REW CHECKED: JJV

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "PR-DN"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	64 of 82
CONTRACT	PROJECT
R-43059	1702989

Plot: 8/24/2023 10:51:14 AM By: HuynhKT Per: Transportation.tbl Model: Cross Sections PR-DN



RECOMMENDED FOR APPROVAL _____ DESIGNED: <u>JJV</u> CHECKED: <u>REW</u>	DESIGN ENGINEER _____ DATE _____ DRAWN: <u>KTH</u> CHECKED: <u>JJV</u>
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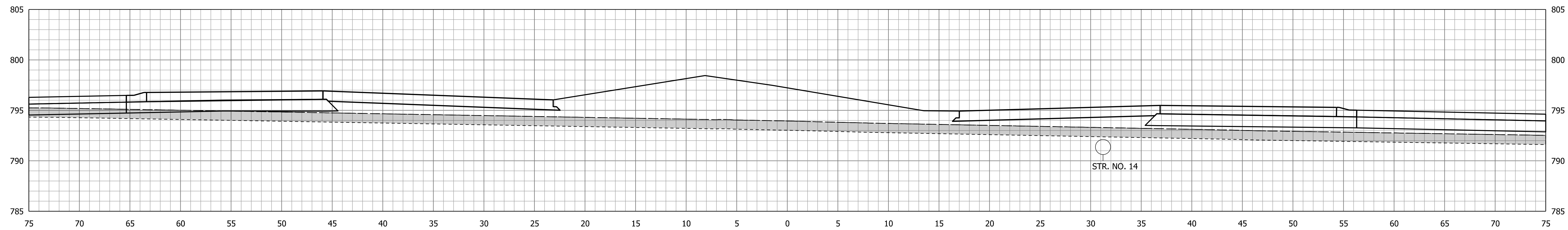
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-DN"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	65 of 82
CONTRACT	PROJECT
R-43059	1702989

STA. 56+00.00 TO STA. 56+50.00

Plc: 8/24/2023 10:51:18 AM By: HuynhKT Per: Transportation.tbl Model: Cross Sections PR-DN



Ac = 0 SFT Af = 290.1 SFT
 Vc = 0 CYS Vf = 234 CYS

56+72.84

STA. 56+72.84 TO STA. 56+72.84



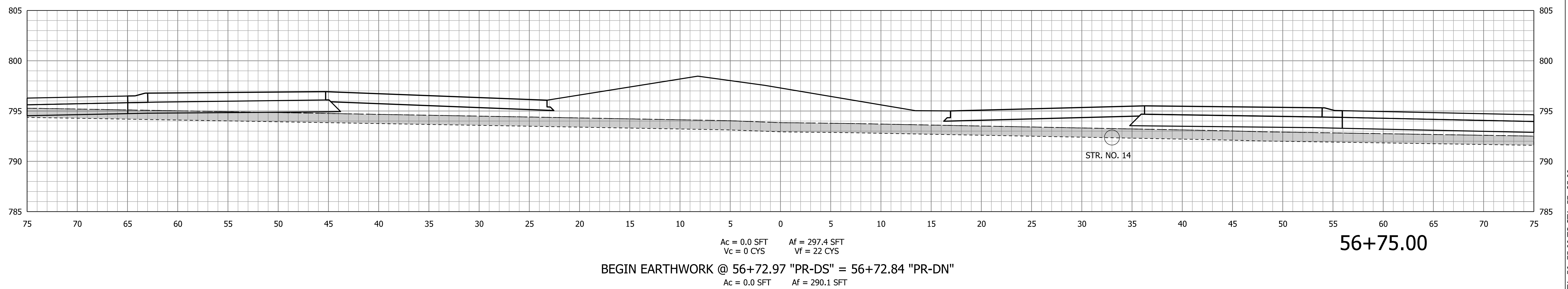
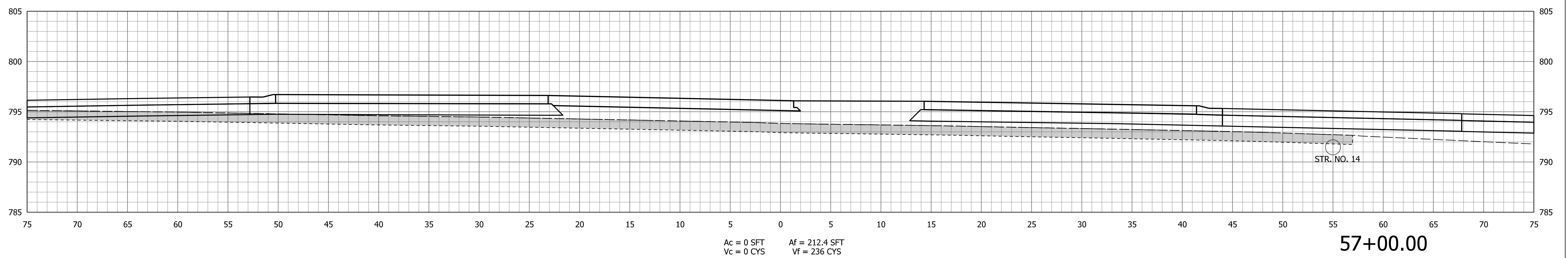
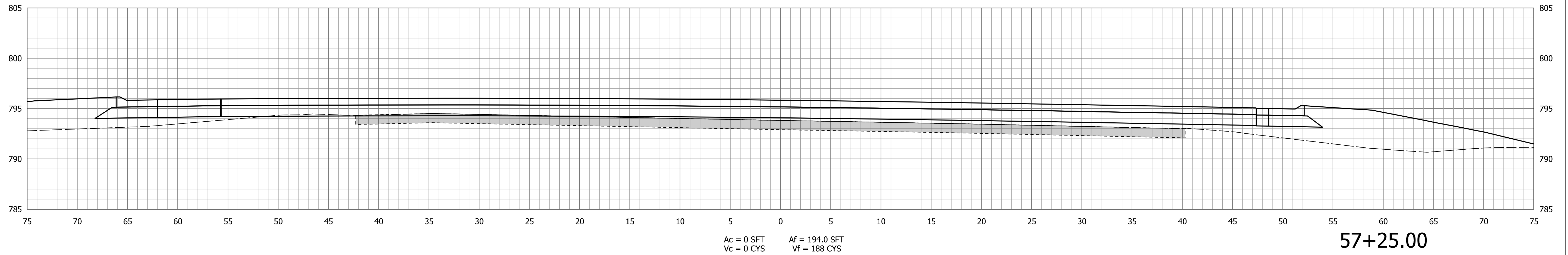
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-DN"

SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 66 of 82
CONTRACT R-43059	PROJECT 1702989

Plot: 8/24/2023 10:51:40 AM By: HuynhKT Per: Transportation.tbl Model: Cross Sections PR-DS



STA. 56+75.00 TO STA. 57+25.00



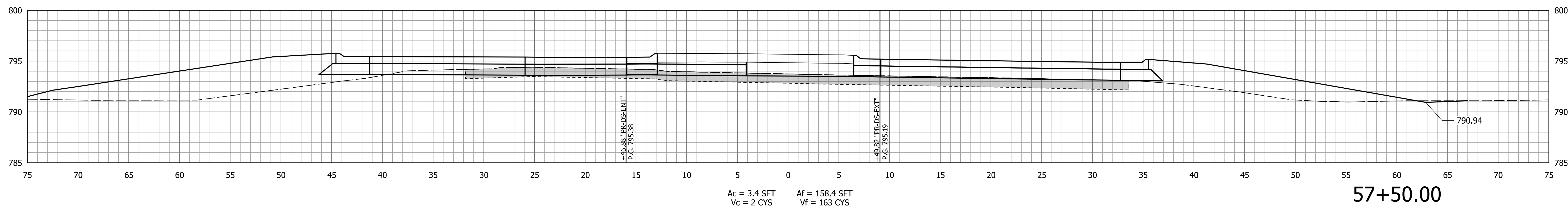
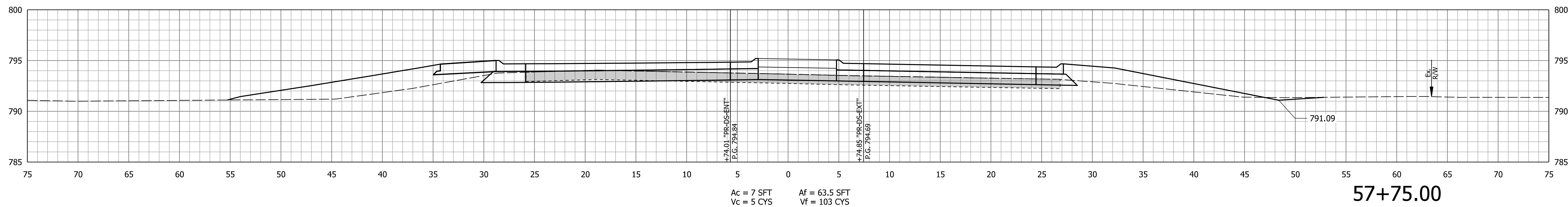
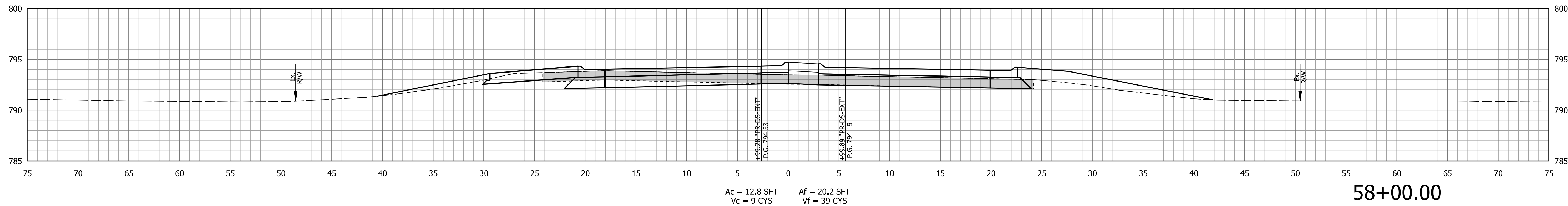
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LINE "PR-DS"**

SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 67 of 82
CONTRACT R-43059	PROJECT 1702989

Plot: 8/24/2023 10:51:47 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-DS



STA. 57+50.00 TO STA. 58+00.00



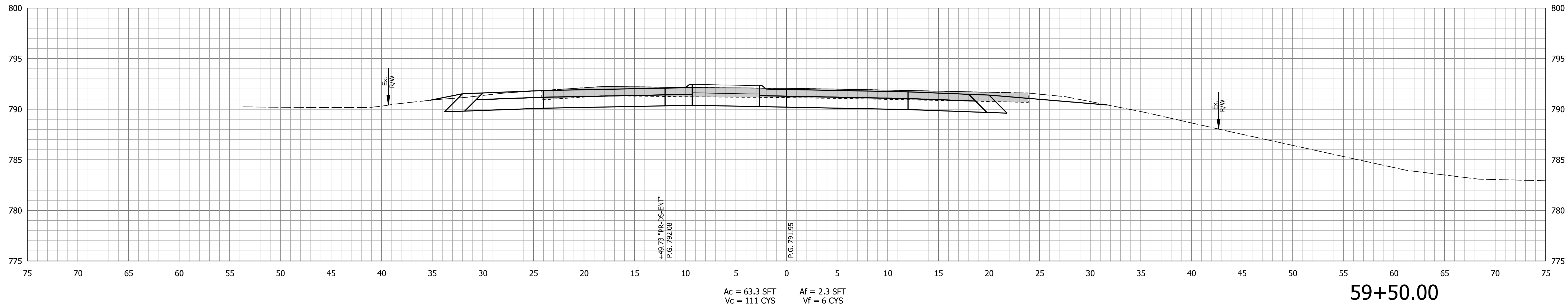
RECOMMENDED FOR APPROVAL _____ DESIGNED: JJV CHECKED: REW	DESIGN ENGINEER _____ DATE _____ DRAWN: KTH CHECKED: JJV
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INDIANA
 DEPARTMENT OF TRANSPORTATION

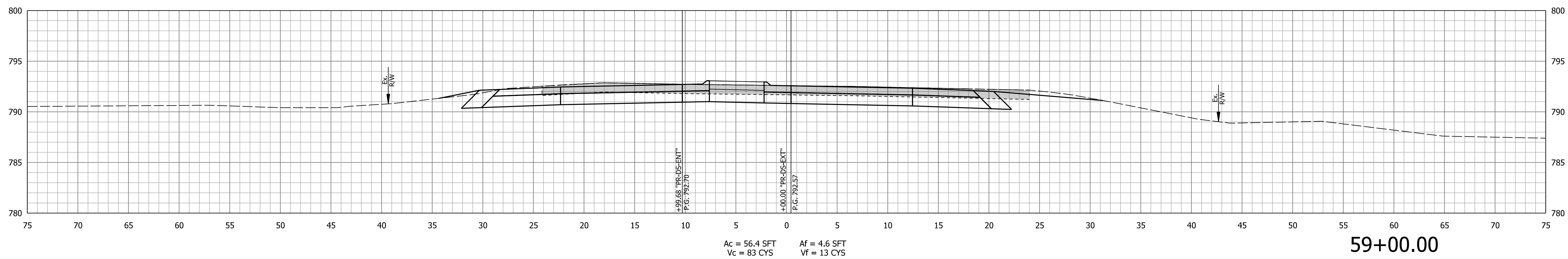
CROSS SECTIONS
 LINE "PR-DS"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	68 of 82
CONTRACT	PROJECT
R-43059	1702989

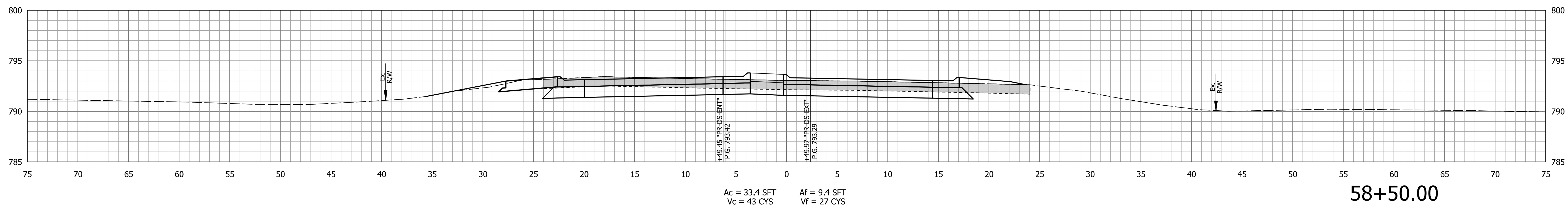
Plot: 8/24/2023 10:51:52 AM By: HuythKT Pen: Transportation.tbl Model: Cross Sections PR-DS



59+50.00



59+00.00



58+50.00



RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____
 DESIGNED: JJV _____ DRAWN: KTH _____
 CHECKED: REW _____ CHECKED: JJV _____

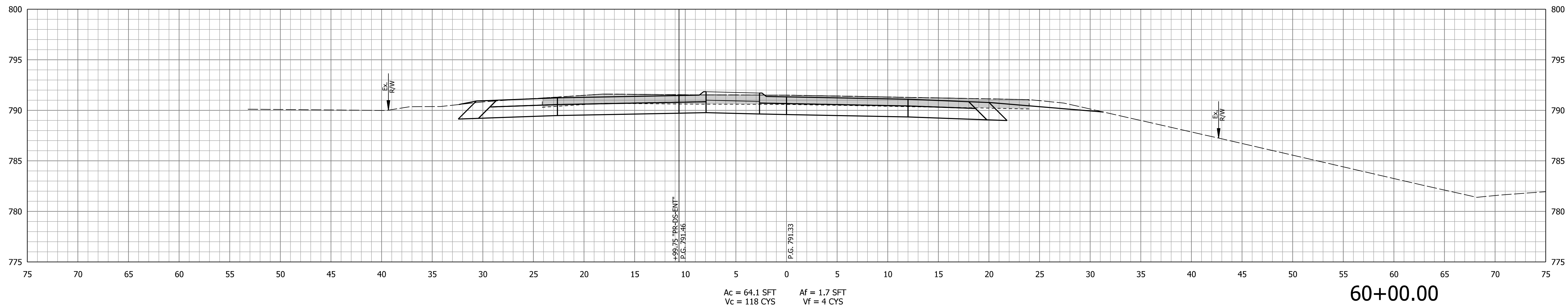
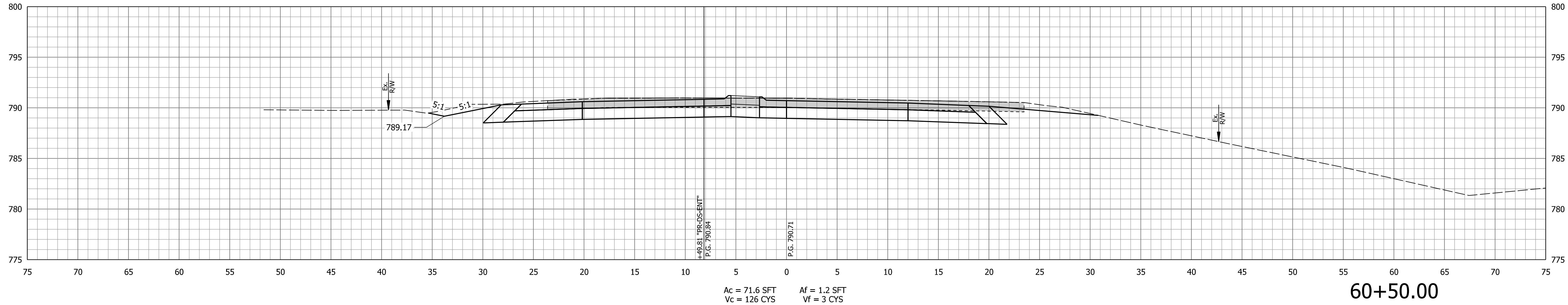
INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-DS"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	69 of 82
CONTRACT	PROJECT
R-43059	1702989

STA. 58+50.00 TO STA. 59+50.00

Plot: 8/24/2023 10:51:58 AM By: HuythKT Pen: Transportation.tbl Model: Cross Sections PR-DS



STA. 60+00.00 TO STA. 60+50.00



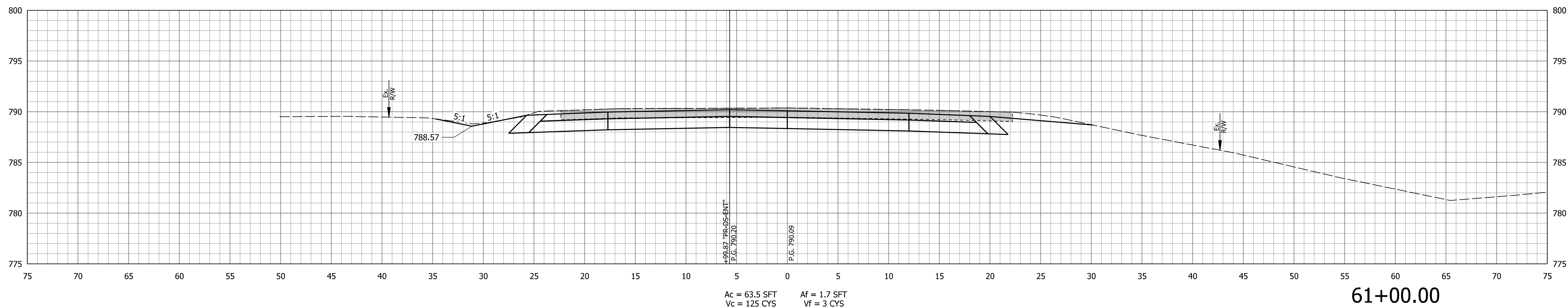
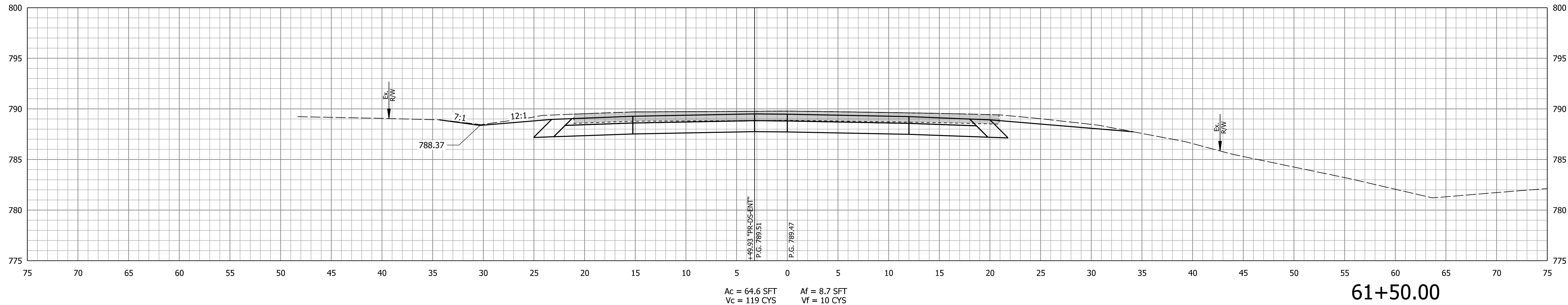
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "PR-DS"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	70 of 82
CONTRACT	PROJECT
R-43059	1702989

Plot: 8/24/2023 10:52:03 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-DS



RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____
 DESIGNED: JJV _____ DRAWN: KTH _____
 CHECKED: REW _____ CHECKED: JJV _____

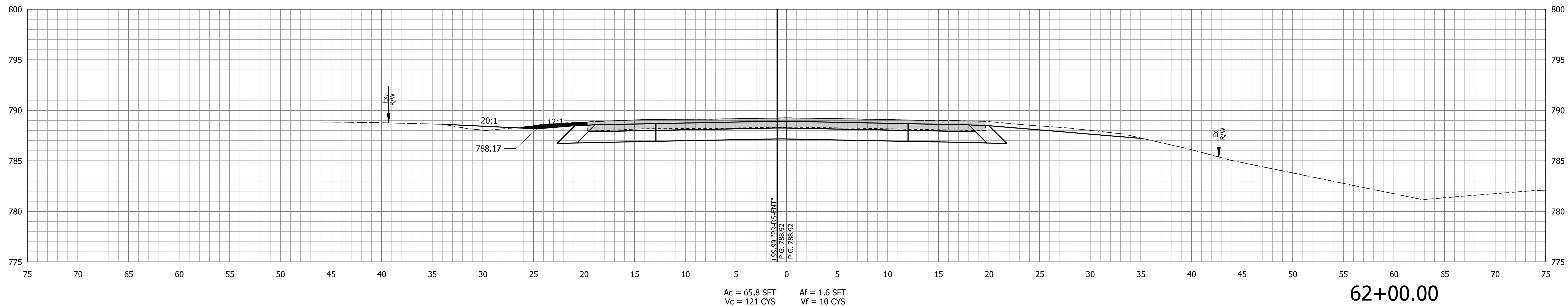
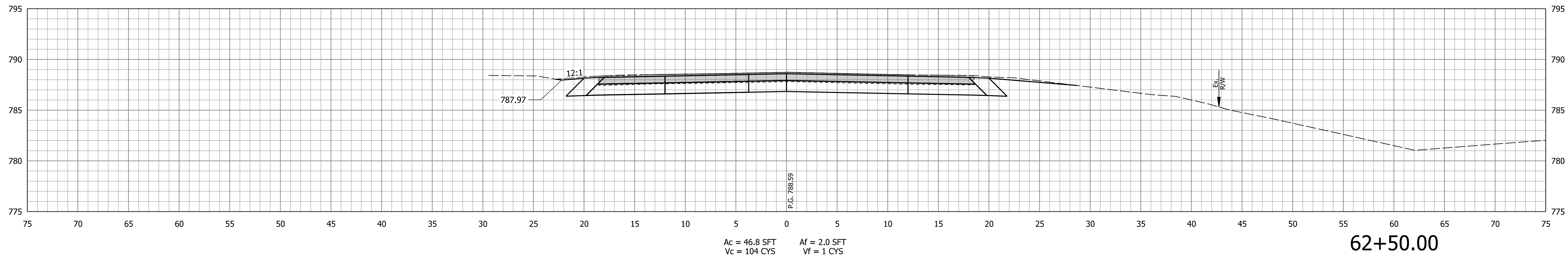
INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "PR-DS"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	71 of 82
CONTRACT	PROJECT
R-43059	1702989

STA. 61+00.00 TO STA. 61+50.00

Plot: 8/24/2023 10:52:08 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-DS



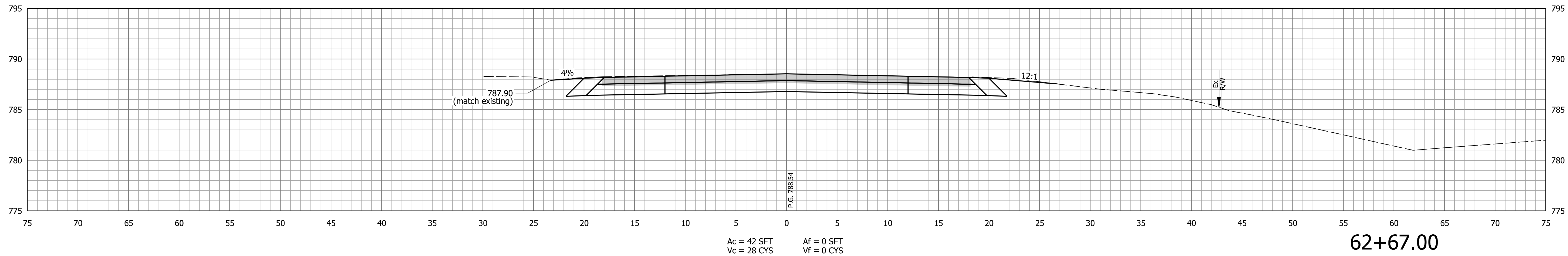
RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____
 DESIGNED: JJV _____ DRAWN: KTH _____
 CHECKED: REW _____ CHECKED: JJV _____

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "PR-DS"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	72 of 82
CONTRACT	PROJECT
R-43059	1702989

Plot: 8/24/2023 10:52:12 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-DS



62+67.00

STA. 62+67.00 TO STA. 62+67.00



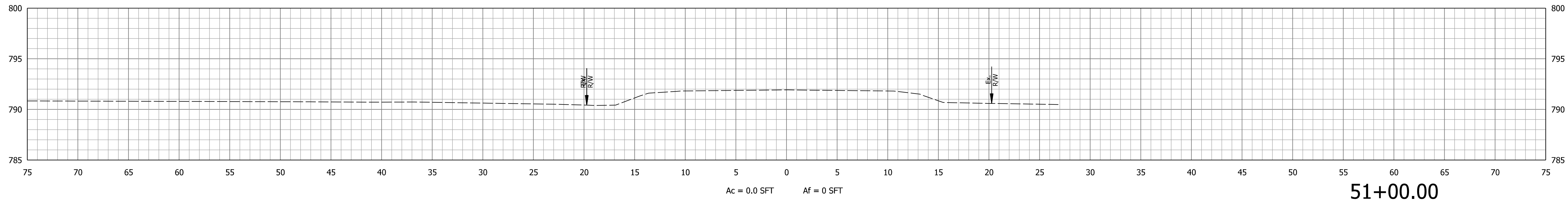
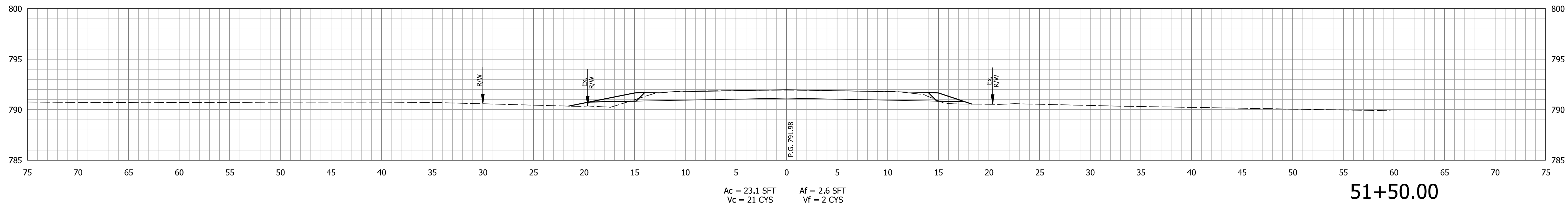
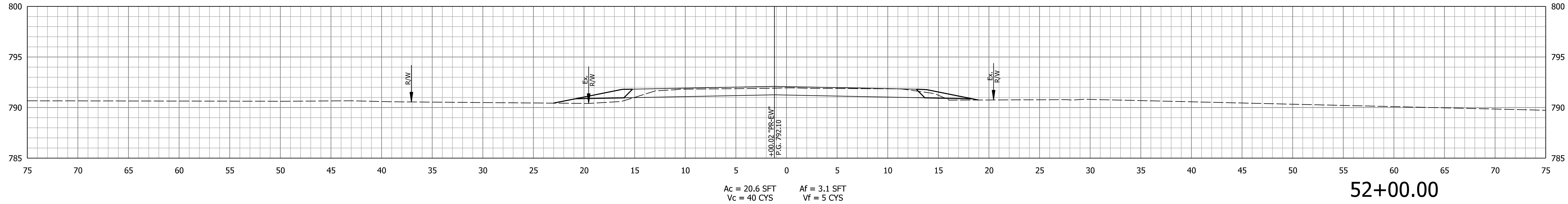
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "PR-DS"

SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 73 of 82
CONTRACT R-43059	PROJECT 1702989

Plot: 8/24/2023 10:53:23 AM By: HuynhKT Per: Transportation.tbl Model: Cross Sections PR-EW



STA. 51+00.00 TO STA. 52+00.00



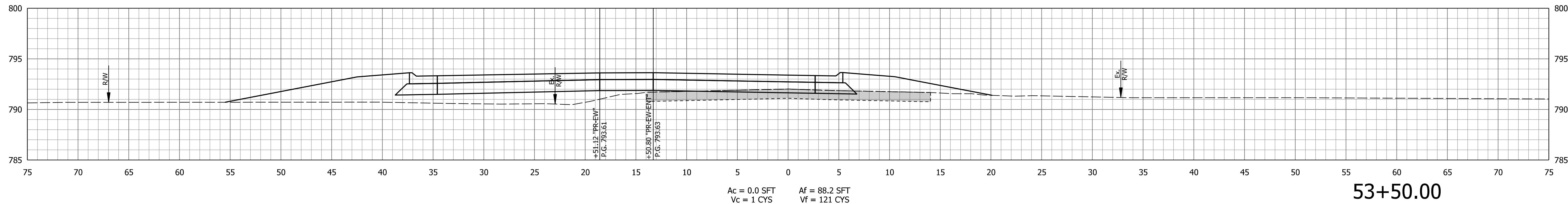
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

INDIANA
 DEPARTMENT OF TRANSPORTATION

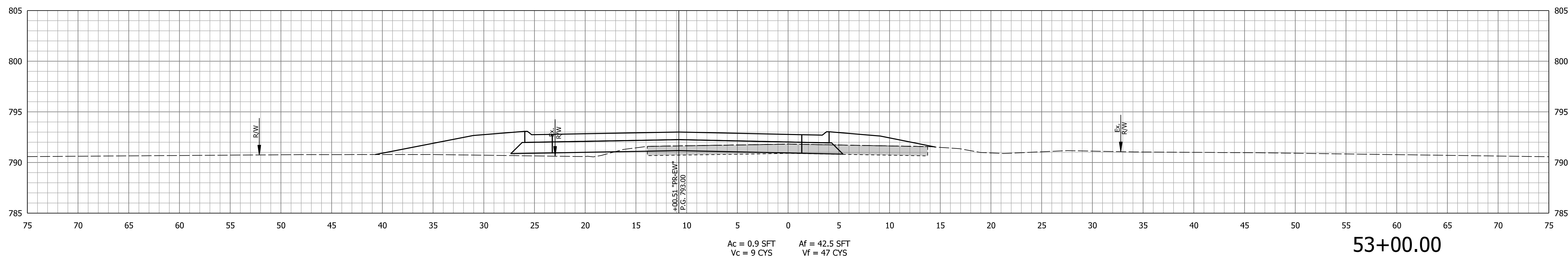
CROSS SECTIONS
 LINE "E"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	74 of 82
CONTRACT	PROJECT
R-43059	1702989

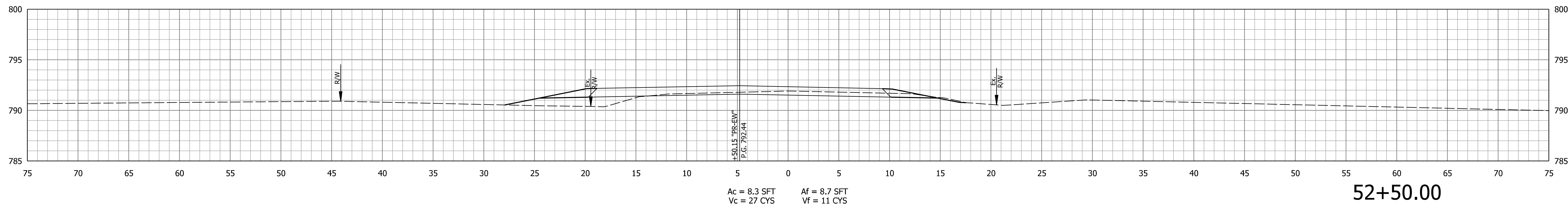
Plot: 8/24/2023 10:53:27 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-EW



53+50.00



53+00.00



52+50.00

STA. 52+50.00 TO STA. 53+50.00



RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____
 DESIGNED: JJV _____ DRAWN: KTH _____
 CHECKED: REW _____ CHECKED: JJV _____

INDIANA
DEPARTMENT OF TRANSPORTATION

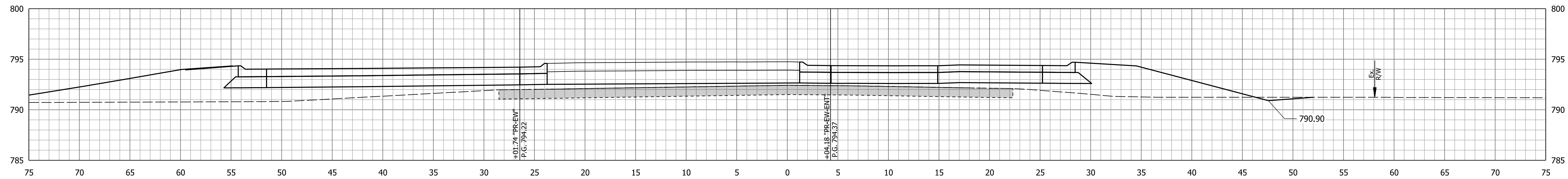
CROSS SECTIONS
LINE "E"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	75 of 82
CONTRACT	PROJECT
R-43059	1702989

Plc: 8/24/2023 10:53:32 AM By: HuythKT Per: Transportation.tbl Model: Cross Sections PR-EW

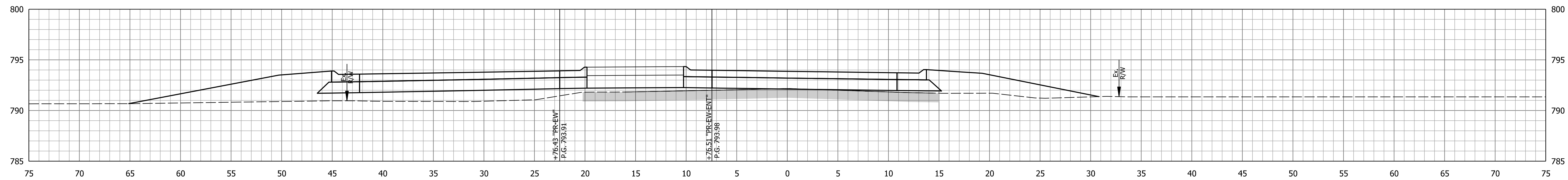
END EARTHWORK - STA. 54+10 "E"

Ac = 1.0 SFT Af = 179.2 SFT
 Vc = 0 CYS Vf = 66 CYS



Ac = 1.0 SFT Af = 179.2 SFT
 Vc = 0 CYS Vf = 138 CYS

54+00.00



Ac = 0 SFT Af = 118.6 SFT
 Vc = 0 CYS Vf = 96 CYS

53+75.00



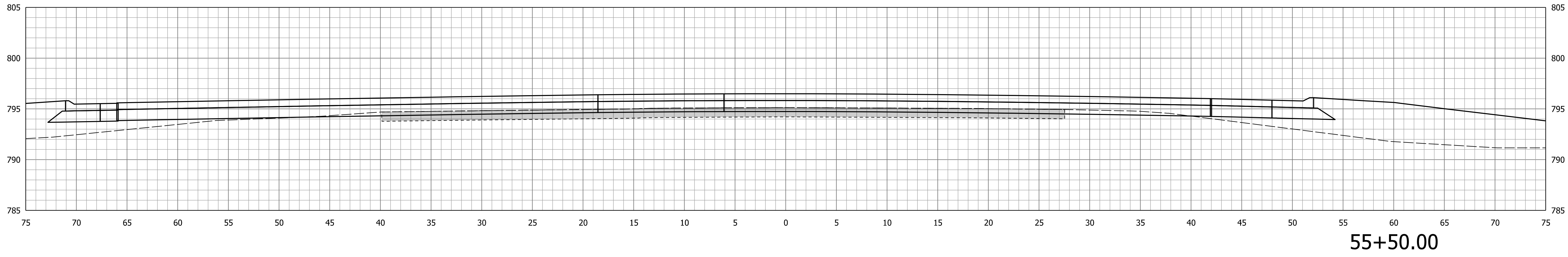
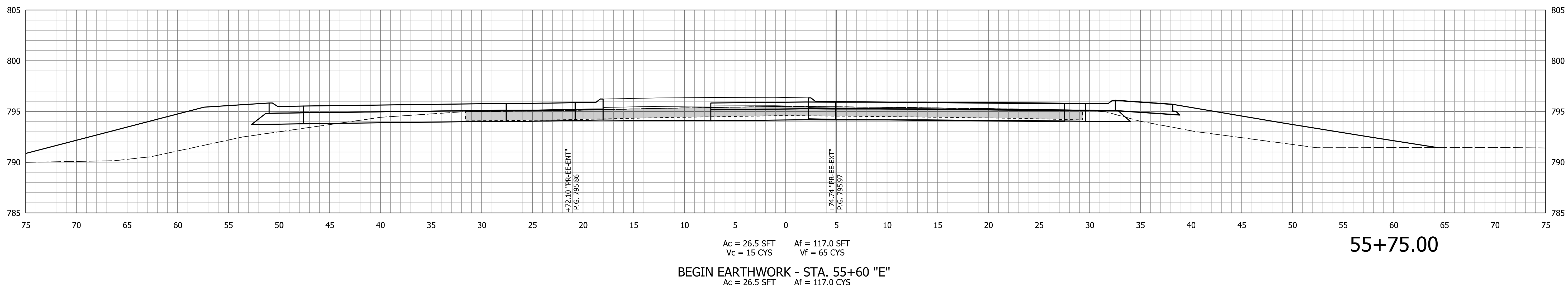
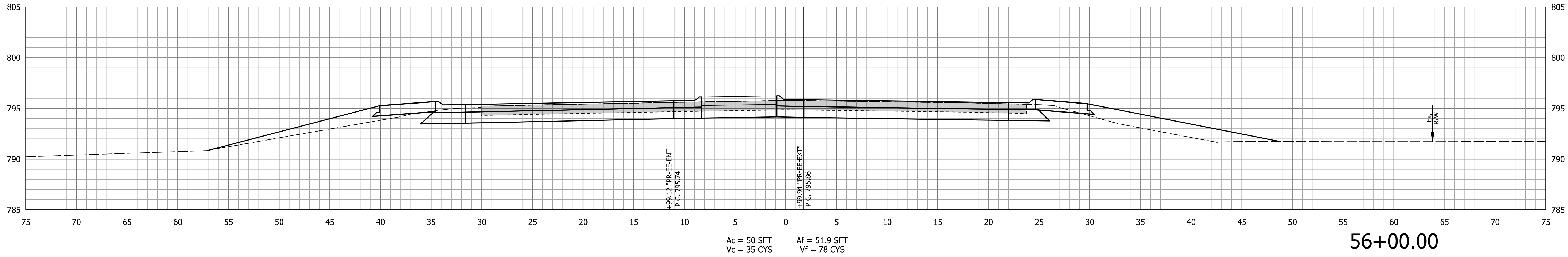
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "E"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	76 of 82
CONTRACT	PROJECT
R-43059	1702989

STA. 53+75.00 TO STA. 54+00.00



Plot: 8/24/2023 10:53:37 AM By: HuythKT Pen: Transportation.tbl Model: Cross Sections E

STA. 55+50.00 TO STA. 56+00.00



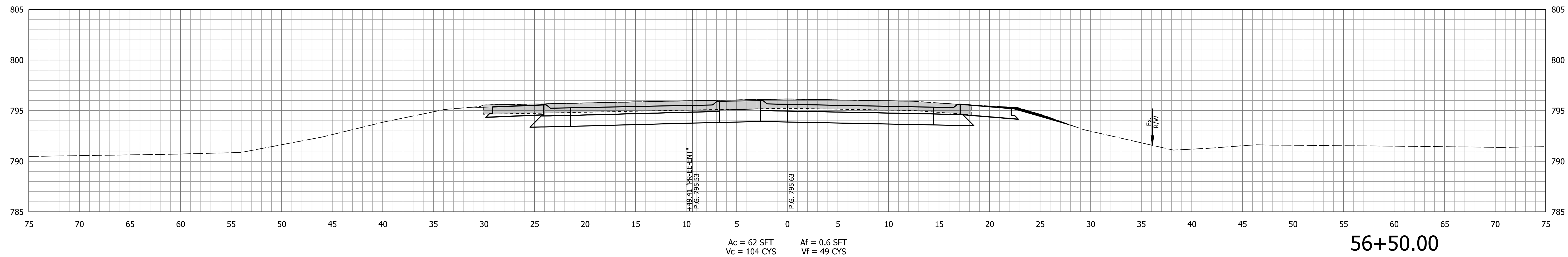
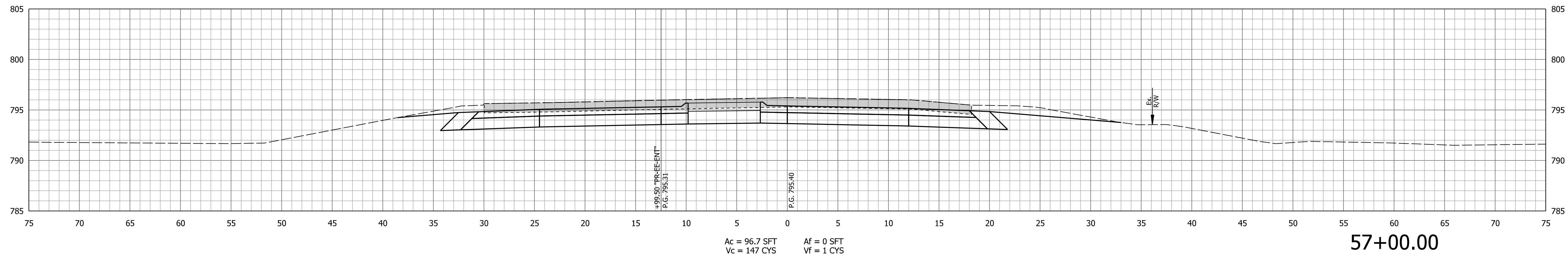
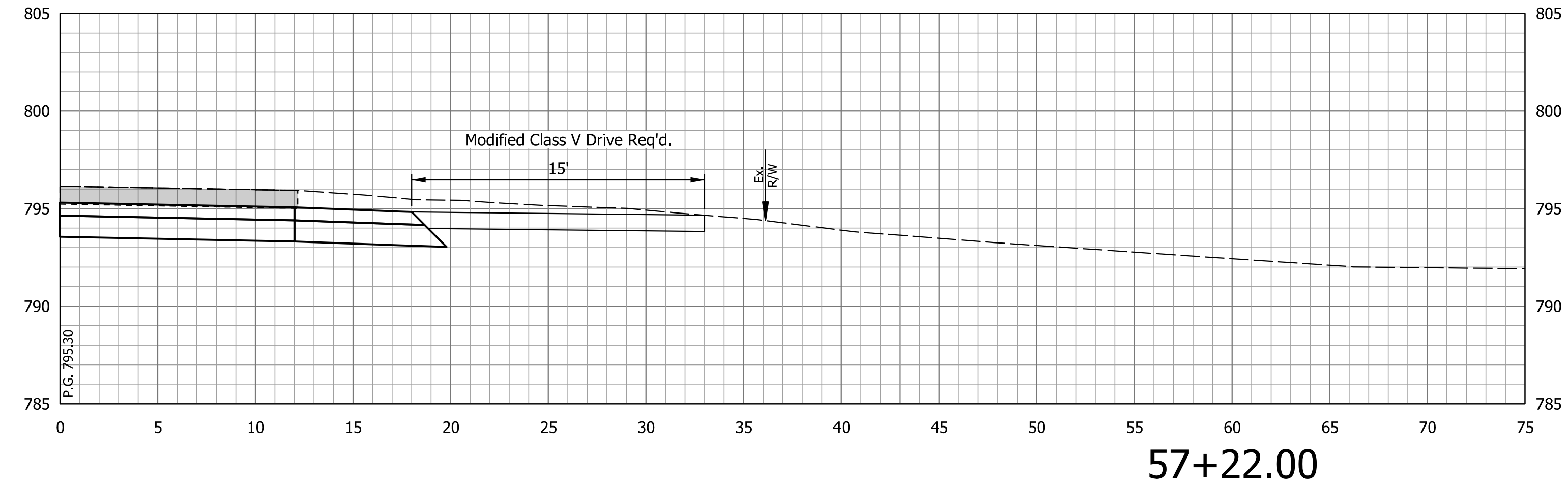
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "E"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	77 of 82
CONTRACT	PROJECT
R-43059	1702989

Plot: 8/24/2023 10:53:43 AM By: HuythKT Pen: Transportation.tbl Model: Cross Sections E



STA. 56+50.00 TO STA. 57+22.00



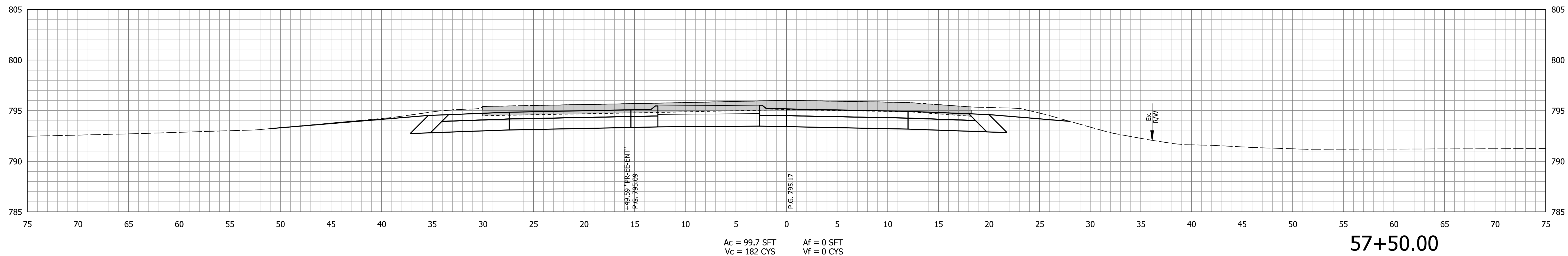
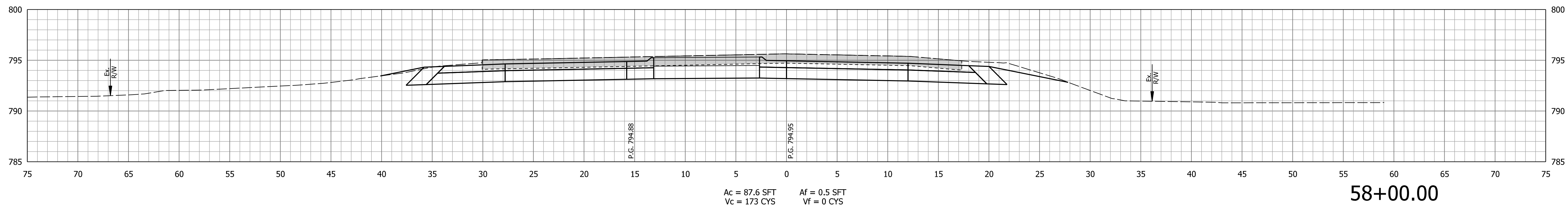
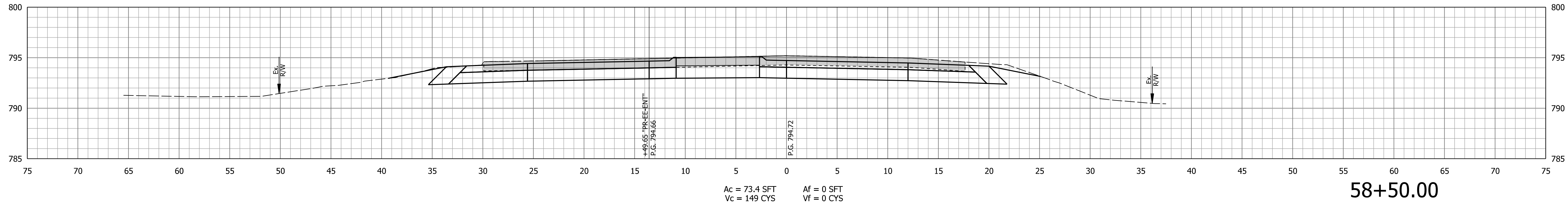
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "E"

SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 78 of 82
CONTRACT R-43059	PROJECT 1702989

Plot: 8/24/2023 10:53:48 AM By: HuythKT Pen: Transportation.tbl Model: Cross Sections E



STA. 57+50.00 TO STA. 58+50.00



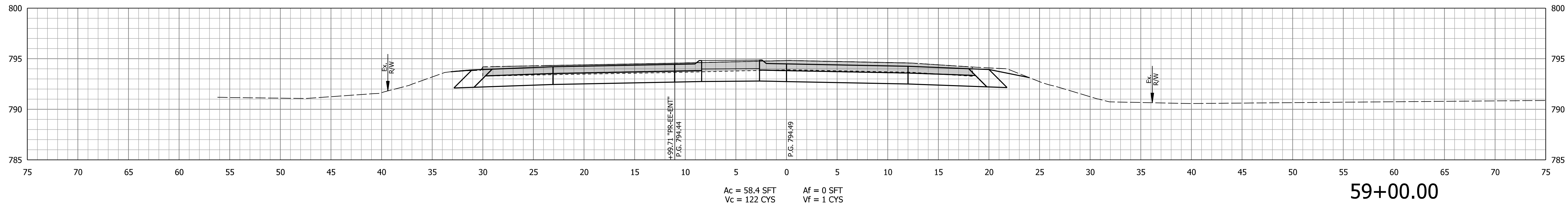
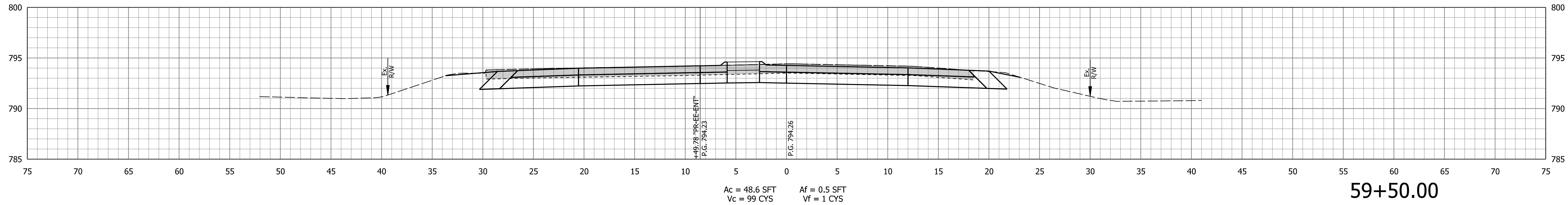
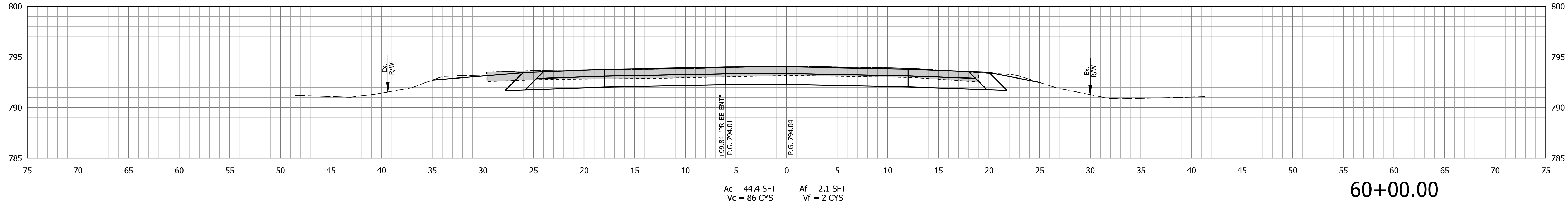
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

**INDIANA
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS
LINE "E"**

SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 79 of 82
CONTRACT R-43059	PROJECT 1702989

Plot: 8/24/2023 10:53:53 AM By: HuythKT Pen: Transportation.tbl Model: Cross Sections E



STA. 59+00.00 TO STA. 60+00.00



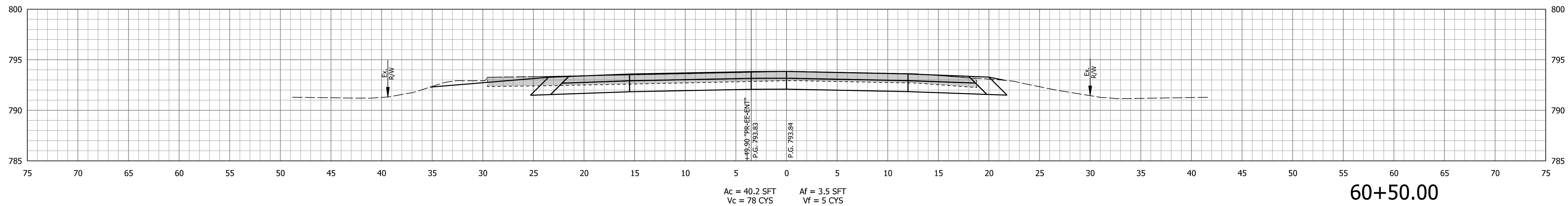
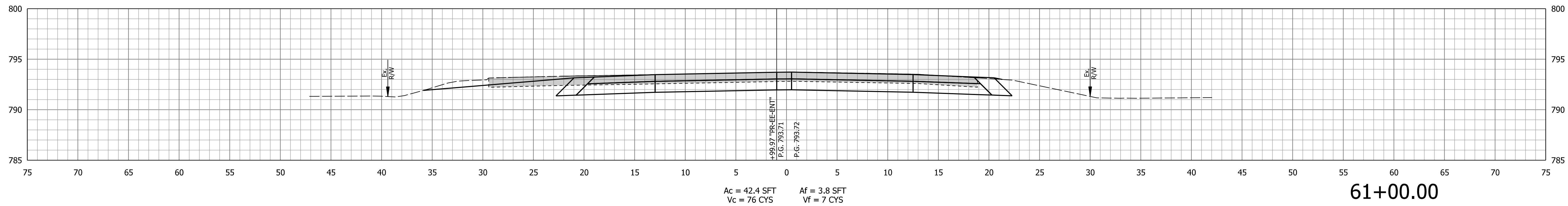
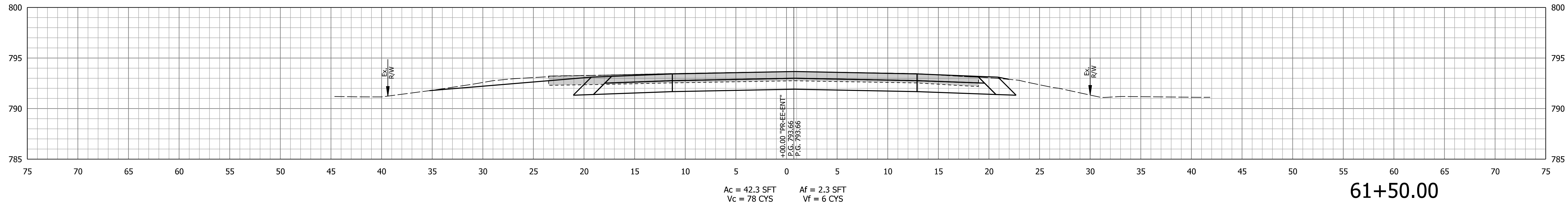
RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "E"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	80 of 82
CONTRACT	PROJECT
R-43059	1702989

Plot: 8/24/2023 10:53:58 AM By: HuythKT Pen: Transportation.tbl Model: Cross Sections E



STA. 60+50.00 TO STA. 61+50.00



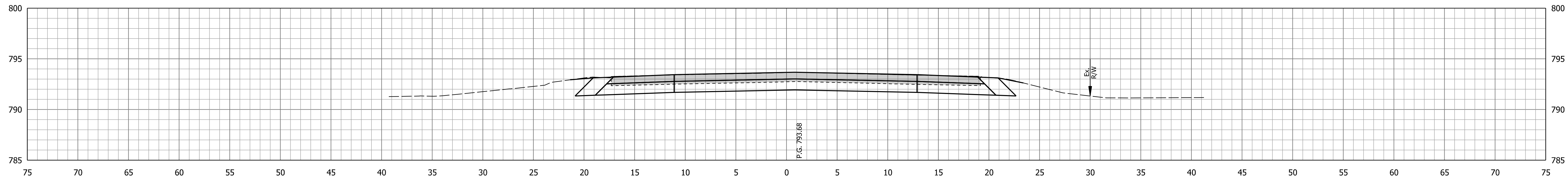
RECOMMENDED FOR APPROVAL _____
 DESIGN ENGINEER _____ DATE _____
 DESIGNED: JJV _____ DRAWN: KTH _____
 CHECKED: REW _____ CHECKED: JJV _____

INDIANA
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
 LINE "E"

SCALE	BRIDGE FILE
1" = 5'	
VERTICAL SCALE	DESIGNATION
1" = 5'	1702989
SURVEY BOOK	SHEETS
	81 of 82
CONTRACT	PROJECT
R-43059	1702989

Plot: 8/24/2023 10:54:04 AM By: HuynhKT Per: Transportation.tbl Model: Cross Sections E



Ac = 39.3 SFT Af = 0 SFT
 Vc = 76 CYS Vf = 2 CYS

62+00.00

STA. 62+00.00 TO STA. 62+00.00



RECOMMENDED FOR APPROVAL _____	DESIGN ENGINEER _____	DATE _____
DESIGNED: JJV _____	DRAWN: KTH _____	
CHECKED: REW _____	CHECKED: JJV _____	

INDIANA
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
LINE "E"

SCALE 1" = 5'	BRIDGE FILE
VERTICAL SCALE 1" = 5'	DESIGNATION 1702989
SURVEY BOOK	SHEETS 82 of 82
CONTRACT R-43059	PROJECT 1702989