LA CODE: 7066

PROJECT	DESIGNATION
1700156 & 1700159	1700156 & 1700159
CONTRACT	BRIDGE FILE
B-40554	058-42-10340 & 058-42-10341

INDIANA DEPARTMENT OF TRANSPORTATION

STRUCTURE INFORMATION

STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
058-42-10340	PRESTRESSED CONCRETE 36X49 BULB-TEE BEAM	1 SPAN: 67'-0" SKEW: 25°00'00"	POLLARD DITCH	55+41.00 LINE "A"
058-42-10341	PRESTRESSED CONCRETE 36X49 BULB-TEE BEAM	1 SPAN: 62'-0" SKEW: NONE	UNT POLLARD DITCH	59+55.38 LINE "A"

KIN PROJECT INFORMATION

DESIGNATION	PROJECT DESCRIPTION	
1700156	SR 58 OVER POLLARD DITCH	LEAD DES
1700159	SR 58 OVER UNT TO POLLARD DITCH	

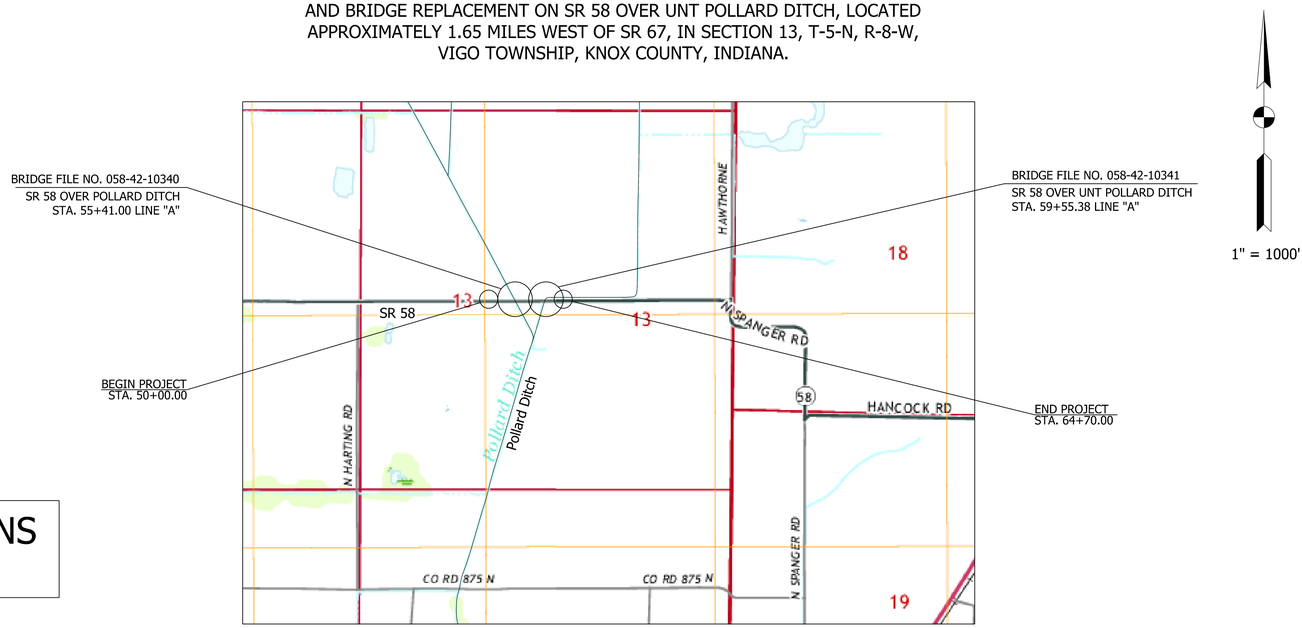
RIGHT-OF-WAY PLANS

FOR SPANS OVER 20 FEET

ROUTE: SR 58 AT: RP 27+13 & 27+22

PROJECT NO. 1700156 & 1700159 (R/W)

BRIDGE REPLACEMENT ON SR 58 OVER POLLARD DITCH, LOCATED APPROXIMATELY 1.74 MILES WEST OF SR 67, IN SECTION 13, T-5-N, R-8-W, VIGO TOWNSHIP, KNOX COUNTY, INDIANA, AND BRIDGE REPLACEMENT ON SR 58 OVER UNT POLLARD DITCH, LOCATED APPROXIMATELY 1.65 MILES WEST OF SR 67, IN SECTION 13, T-5-N, R-8-W, VIGO TOWNSHIP, KNOX COUNTY, INDIANA.



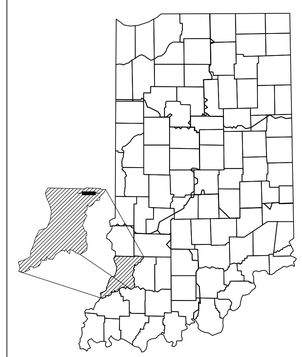
LOCATION MAP
(KNOX COUNTY)

TRAFFIC DATA

A.A.D.T.	(2022)	545	V.P.D.
A.A.D.T.	(2042)	560	V.P.D.
D.H.V.	(2042)	54	V.P.H.
DIRECTIONAL DISTRIBUTION		50.28	%
TRUCKS		10.72	% A.A.D.T.
		15.39	% D.H.V.

DESIGN DATA

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



PROJECT LOCATION SHOWN BY
KNOX COUNTY

LATITUDE: 38° 52' 02" N LONGITUDE: 87° 15' 08" W

BRIDGE LENGTH:	0.013 & 0.012	MI.
ROADWAY LENGTH:	0.254	MI.
TOTAL LENGTH:	0.278	MI.
MAX. GRADE:	1.82	%

HYDROLOGIC UNIT CODE: 051202020801

PRELIMINARY R/W PLANS
AUGUST 05, 2020

NOTE: PROJECT LIMITS ENCOMPASS BOTH DES 1700156 AND DES 1700159

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

HNTB Indiana, Inc.
The HNTB Companies
Infrastructure Solutions
111 Monument Circle
Suite 1200
Indianapolis, IN 46204

DRAFT
NOT FOR CONSTRUCTION

APPROVED: _____ OFFICE OF REAL ESTATE DIRECTOR DATE

RECOMMENDED FOR APPROVAL: _____ ACQUISITION TEAM LEADER DATE

BRIDGE FILE
058-42-10340 & 058-42-10341
DESIGNATION
1700156 & 1700159

SURVEY BOOK	SHEETS
ELECTRONIC	1 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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UTILITIES

COMMUNICATIONS

AT&T - DISTRIBUTION
240 N. MERIDIAN ST, ROOM 1791
INDIANAPOLIS, IN 46204
MATT SPINDLER
(317) 265-3050

TDS TELECOM (SANDBORN)
16924 WEST VICTOR ROAD
NEW BERLIN, WI 53151
(262) 754-3063
MATT SCHULTE
MATT.SCHULTE@TDSTELECOM.COM

TELEPHONE

FRONTIER
8001 WEST JEFFERSON BLVD.
FORT WAYNE, IN 46804
(260) 461-3324
JOE SARLL
UTILITYCORDREQ@FTR.COM

GAS AND ELECTRIC

ATLAS ENERGY INDIANA, LLC
32 SOUTH COURT STREET, SUITE F
SULLIVAN, IN 47882
(812) 268-4900
WARREN HANKS
WHANKS@ATLASENERGY.COM

WIN ENERGY R.E.M.C.
3981 S. US HWY 41
VINCENNES, IN 47591
(812) 882-5140
GREGORY WOLVEN
GAWPE@WINENERGYREMC.COM

PIPELINE

COUNTRYMARK REFINING AND
LOGISTICS, LLC
1200 REFINERY ROAD
MT. VERNON, IN 47620
(812) 838-8160
TONY FERHENBACHER
TONY.FERHENBACHER@COUNTRYMARK.COM

WATER

KNOX COUNTY WATER, INC.
654 N. ANSON RD.
VINCENNES, IN 47591
(812) 726-5330
RICHARD MCNEW
COUNTYWATER@KNOXCOUNTY.IN.GOV

INDEX

SHEET NO.	SUBJECT
1	TITLE SHEET
2	R/W INDEX
3	LOCATION CONTROL ROUTE SURVEY
4	PLAT NO. 1
5-6	TYPICAL CROSS SECTIONS
7-8	PLAN AND PROFILE
9-10	LAYOUT
11-14	GENERAL PLAN
15	SUMMARY TABLES

REVISIONS

SHEET NO.	DATE	REVISED

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: CDC DRAWN: CDC
CHECKED: MRS CHECKED: MRS

INDIANA
DEPARTMENT OF TRANSPORTATION

R/W INDEX

HORIZONTAL SCALE	BRIDGE FILE
N/A	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
N/A	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	2 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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2019R00715
2019R00715
LISA CLARK-BENOCK
KNOX COUNTY RECORDER
VINCENNES, IN
RECORDED ON
02/26/2019 10:45:07AM
REC FEE:25.00
PAGES: 1

LA CODE: 7066

Surveyor's Report

In accordance with Title 865, Article 1, Chapter 12 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 survey as a result of uncertainties in reference monumentation and inconsistencies in lines of occupation.

Location of Survey

This project is located on SR 58 over Pollard Ditch, located 1.7 miles west of SR 67 in Knox County, Indiana in Section 13, Township 5 North, Range 8 West.

Purpose of Survey

The purpose of this survey is to collect data for the design of two bridge replacement projects and to provide a basis for describing any right-of-way needed for the project. It is not a property retracement survey and any apparent property lines and/or corners shown are based only on physical evidence as collected during the field survey.

General

- All monument reference ties are shown on the Location Control Route Survey Plat (herein referred to as LCRS)
- All measurements are in US Survey feet unless otherwise noted. All distances shown on this LCRS represent ground measurements.
- Should additional USPLS corners be needed where none were found, they should be reestablished and tied to this survey.
- Field measurements for this survey were made in accordance with the specification outlined in Indiana Administrative Code 865 IAC-1-12-20 through 1-12-25. The decimal precision shown on this plat for the measurements and coordinates is for consistency in the mathematical calculations, and not to indicate the precision of the field work conducted for this survey.

Primary Control and Basis of Bearings

Unless noted otherwise, all bearings, distances, areas, and coordinates shown hereon are based upon the Indiana Geospatial Coordinate System's (InGCS) "Knox" zone per NAD 83 (2011) epoch 2010.00 and are reported in U.S. Survey Feet and decimal parts thereof. The "Knox" zone was developed to minimize the differences between ground measured horizontal distances and the corresponding grid coordinate (map) distances within the county bearing this zone's name.

InGCS "Knox" Zone Parameters
Geometric Datum: NAD 83(2011) epoch 2010.00
Projection Type: Transverse Mercator
Central meridian: 87°27'00" west longitude
Central Meridian scale factor: 1.000015
Latitude of Grid Origin: 38°24'00" north latitude
False Northing: 36,000.000m (118,110.00 U.S. Ft)
False Easting: 240,000.000m (787,400.00 U.S. Ft)

Alignment

No road plans were found, and only limited bridge plans were found for this project. INDOT's road log indicates this section of road was a county-maintained gravel roadway until 1935 when the State constructed a bituminous mixture on gravel. Line "A" this survey should be considered an original alignment.

Original Alignment Reference Monuments

500. Mag nail set at P.O.T. Station 50+00.00 Line "A".
501. Mag nail set at P.O.T. Station 57+50.00 Line "A".
502. Mag nail set at P.O.T. Station 65+00.00 Line "A".

Primary Control Points Set This Survey

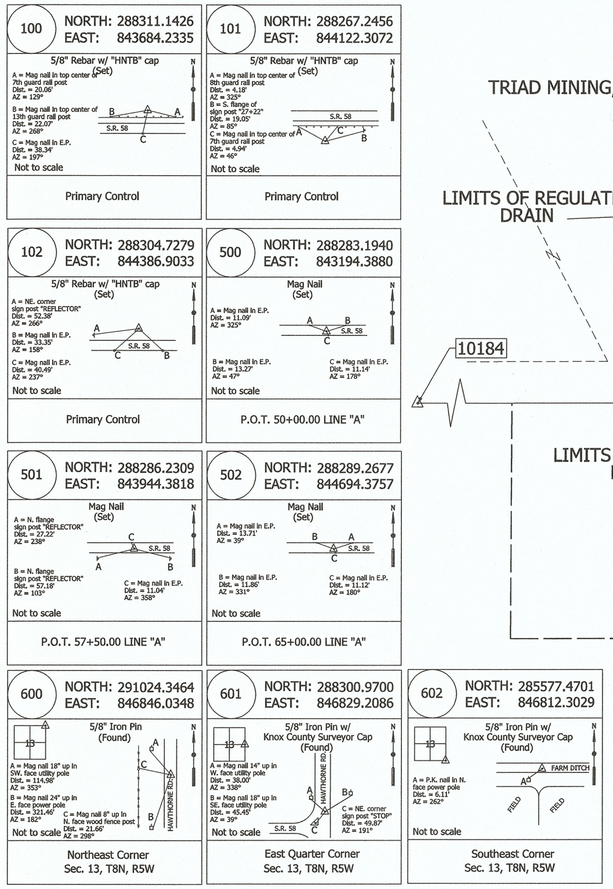
100. A 5/8"rebar with cap was set in the grass on the north side of SR 58.
101. A 5/8"rebar with cap was set in the grass on the south side of SR 58.
102. A 5/8"rebar with cap was set in the grass on the north side of SR 58.

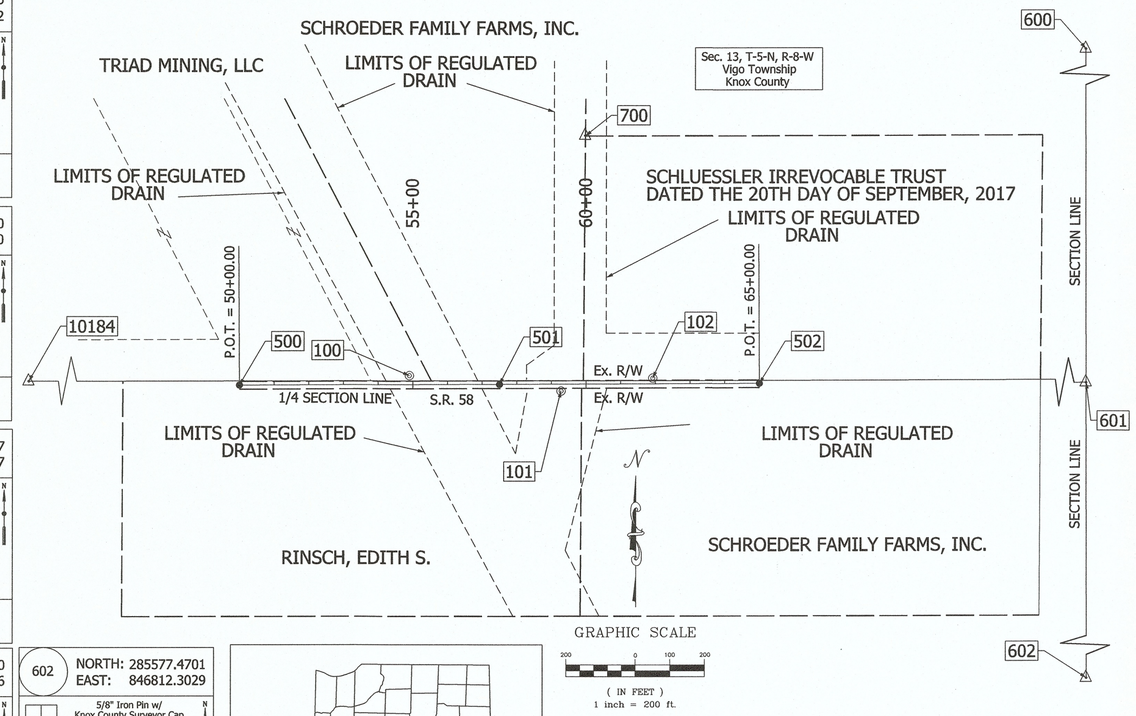
Corners of the PLSS

Section corners and certain quarter section corners were originally monumented by the Federal Government during the original subdivision of the State of Indiana. Corners shown on this survey were monumented for the Federal Government by setting wood posts at these corners in accordance with the Federal Government's Instructions. Without a continuous chain of record proving the perpetuation of the location of the wood posts, it is impossible to know or determine that the monuments found at these corners, this survey, are in these same location as the original wood posts. The remaining quarter section and quarter-quarter section corners were to be monumented by Local Surveyors (County Surveyors or Private Surveyors) after the initial Federal government survey. The monumentation of the locations of these corners were to be established in accordance with the Federal Government's Instructions for the subdivision of sections. There is not any direct evidence available indicating that the Instructions for the subdivision of sections were followed to determine the location of these corners. Therefore, monuments shown on this survey as marking corners set subsequent to the Federal Government Survey may not be in their "theoretical"location resulting from adherence to said Instructions.

Recovery of PLSS Corner Monuments
Item numbers refer to monument numbers shown on the LCRS.

600. A 5/8"Iron Pin was found per Knox County Surveyor reference tie and accepted as the Northeast Corner of Section 13, Township 5 North, Range 8 West.
601. A 5/8"Iron Pin with "Knox County Surveyor"cap was found per Knox County Surveyor reference tie and accepted as the East Quarter Corner of Section 13, Township 5 North, Range 8 West.
602. A 5/8"Iron Pin with "Knox County Surveyor"was found and accepted as the Southeast Corner of Section 13, Township 5 North, Range 8 West.
10184. The position of the West Quarter Corner of Section 13, Township 5 North, Range 8 West was established by using NAD 83 SPC coordinate values as shown on survey plat prepared for Triad Mining, Inc. by Douglas J. McDonald, LS, dated 11-24-2000 as Project No. 2000-63. The SPC coordinate values were converted to the "Knox" Zone of the InGCS.

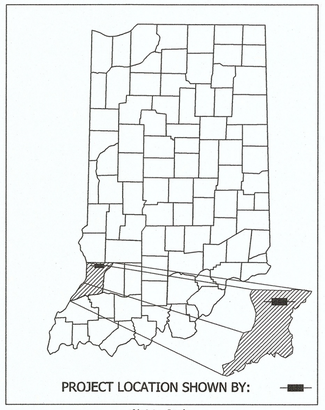




POINT #	DESCRIPTION	NORTHING (INGCS KNOX)	EASTING (INGCS KNOX)
100	5/8" Rebar W/Cap "HNTB" Set	288311.1426	843684.2335
101	5/8" Rebar W/Cap "HNTB" Set	288267.2456	844122.3072
102	5/8" Rebar W/Cap "HNTB" Set	288304.7279	844386.9033
500	Mag Nail Set	288283.1940	843194.3880
501	Mag Nail Set	288286.2309	843944.3818
502	Mag Nail Set	288289.2677	844694.3757
600	5/8 Iron Pin Found	291024.3464	846846.0348
601	5/8 Iron Pin W/Cap "KNOX COUNTY SURVEYOR" Found	288300.9700	846829.2086
602	5/8 Iron Pin W/Cap "KNOX COUNTY SURVEYOR" Found	285577.4701	846812.3029
700	1" Iron Pin Found	289001.6909	844191.9138

Plat Legend

- △ Found Section corner monument, as described on Plat
- ● Mag Nail set, as described on Plat
- ◎ Set 5/8" Rebar with cap, as described on Plat
- ● Found Monument, as described on Plat



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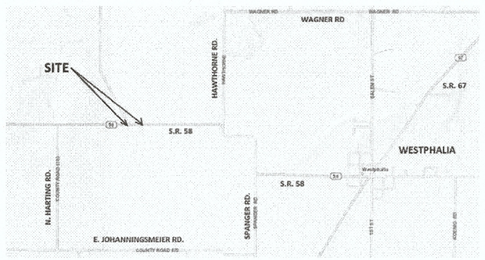


Surveyor's Report

Right of Way Note

The existing right of way line, parcel ownership information shown on this plat are preliminary and subject to change based on verification/validation of title. This information is shown only to help orient the user of this plat as it relates to project centerlines and is not intended to establish existing right of way lines or ownership lines. The source used to plot existing right of way line and ownership lines shown on this plat is from last deed of record obtained from County Recorder's Office as well as other sources cited on this plat. The designer/consultant responsible for Right of Way Engineering will complete the final determination for this information.

Easement Note

Location of any easements are based on last deed of record available at the Recorder's Office. These deed records were found during initial research, and in no way represent all possible easements that could be recovered by a title search

SURVEY STARTED		
1/23/2019		
SURVEY COMPLETED		
2/12/2019		
ROUTE PLAT SHEETS		
1	of	1

FIELD SURVEYOR STATEMENT

THIS SURVEY, TO THE BEST OF MY KNOWLEDGE AND BELIEF, IS EXCUTEDACCORDING TO THE PROVISIONS OF 865 I.A.C. 1-12-20 REGARDING ROUTESURVEYS, EXCEPT THAT ANY DATA SHOWN REGARDING THE LOCATION OR DESCRIPTION OF THE EXISTING PARCELS IS NOT PART OF THIS SURVEY.

KURT M. VONDERHEIDE REGISTERED No. LS20200082 STATE OF INDIANA LAND SURVEYOR

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

PREPARED BY: Kurt M. Vonderheide 2/20/2019
REGISTERED LAND SURVEYOR, FIELD DATE

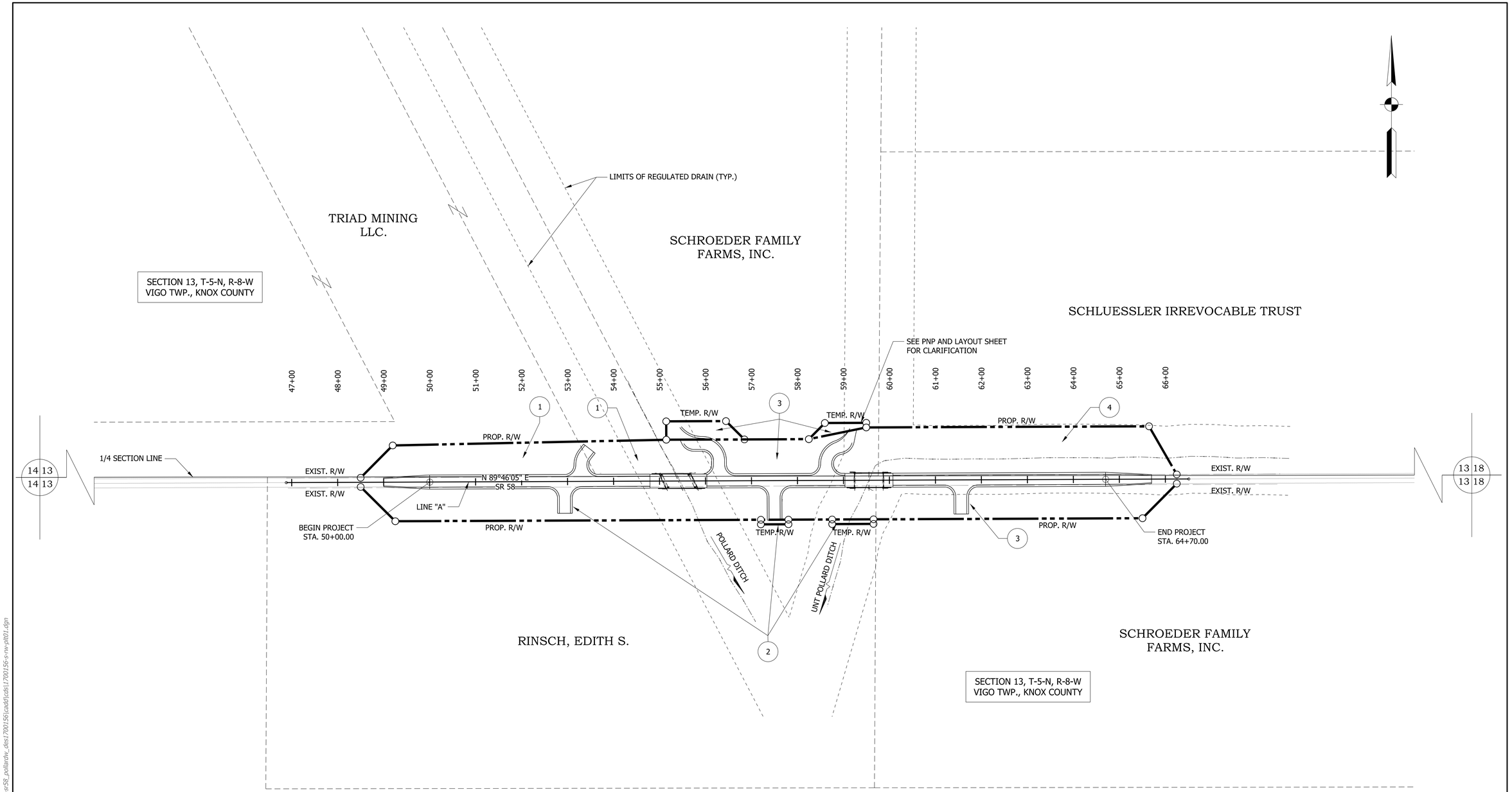
INDIANA
DEPARTMENT OF TRANSPORTATION

LOCATION CONTROL ROUTE SURVEY

HORIZONTAL SCALE	BRIDGE FILE
1" = 200'	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
N/A	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	3 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

3 pro
1 PB25

HNTB



DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: CDC | DRAWN: CDC

CHECKED: MRS | CHECKED: MRS

INDIANA
DEPARTMENT OF TRANSPORTATION

PLAT NO. 1

HORIZONTAL SCALE	BRIDGE FILE
1" = 100'	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
1" = 100'	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	4 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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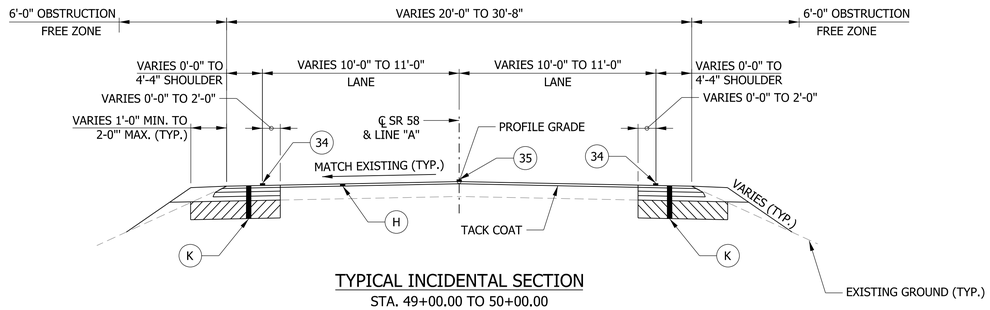

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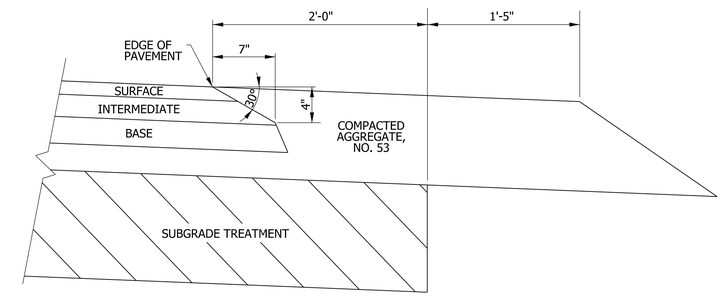

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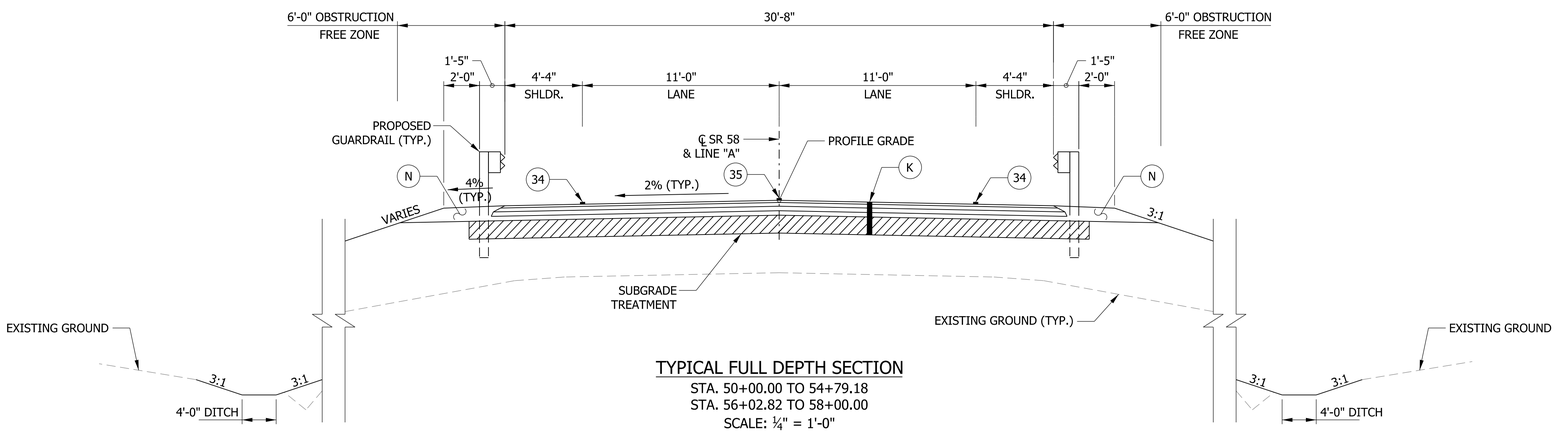
1½" = 1'-0"



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STA. 50+00.00 TO 54+79.18
STA. 56+02.82 TO 58+00.00
SCALE: ¼" = 1'-0"

NOTE TO REVIEWER

PAVEMENT COMPOSITION TO BE REVISED UPON RECEIPT OF PAVEMENT DESIGN.

- (H) 165 LB/SYS QC/QA - HMA, 3, 64, SURFACE, 9.5 MM
- (K) 165 LB/SYS QC/QA - HMA, 3, 64, SURFACE 9.5 MM ON
  275 LB/SYS QC/QA - HMA, 2, 64, INTERMEDIATE 19.0 MM ON
  330 LB/SYS QC/QA - HMA, 2, 64, BASE 19.0 MM ON
  3 INCHES OF COMPACTED AGGREGATE, NO. 53, BASE, ON
  SUBGRADE TREATMENT TYPE IC
- (N) COMPACTED AGGREGATE, NO. 53
- (34) LINE, PAINT, SOLID, WHITE 4 IN.
- (35) LINE, PAINT, BROKEN, YELLOW, 4 IN.

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: RRJ DRAWN: RRJ
CHECKED: MRS CHECKED: MRS

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
058-42-10340

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
AS SHOWN	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	5 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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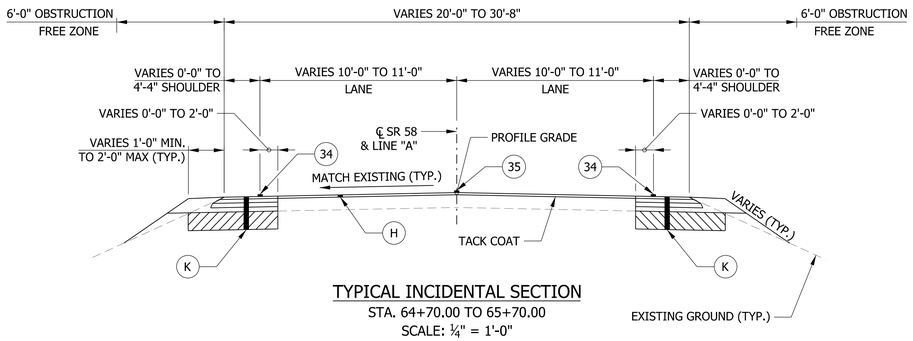

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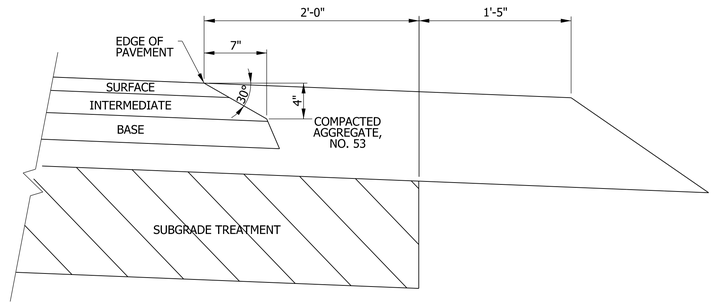
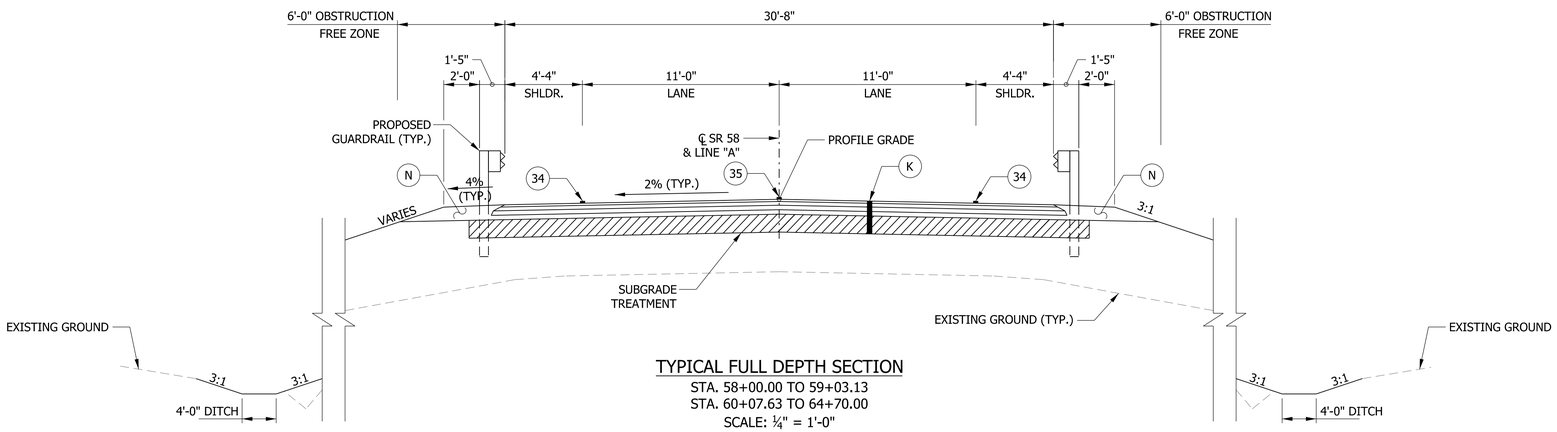


TYPICAL SECTION WITHOUT GUARDRAIL AND SAFETY EDGE ON HMA PAVEMENT
1½" = 1'-0"



TYPICAL FULL DEPTH SECTION
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STA. 60+07.63 TO 64+70.00
SCALE: ¼" = 1'-0"

NOTE TO REVIEWER

PAVEMENT COMPOSITION TO BE REVISED UPON RECEIPT OF PAVEMENT DESIGN.

- (H) 165 LB/SYS QC/QA - HMA, 3, 64, SURFACE, 9.5 MM
- (K) 165 LB/SYS QC/QA - HMA, 3, 64, SURFACE 9.5 MM ON
  275 LB/SYS QC/QA - HMA, 2, 64, INTERMEDIATE 19.0 MM ON
  330 LB/SYS QC/QA - HMA, 2, 64, BASE 19.0 MM ON
  3 INCHES OF COMPACTED AGGREGATE, NO. 53, BASE, ON
  SUBGRADE TREATMENT TYPE IC
- (N) COMPACTED AGGREGATE, NO. 53
- (34) LINE, PAINT, SOLID, WHITE 4 IN.
- (35) LINE, PAINT, BROKEN, YELLOW, 4 IN.

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: RRJ DRAWN: RRJ
CHECKED: MRS CHECKED: MRS

INDIANA
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS
058-42-10341

HORIZONTAL SCALE	BRIDGE FILE
AS SHOWN	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
AS SHOWN	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	6 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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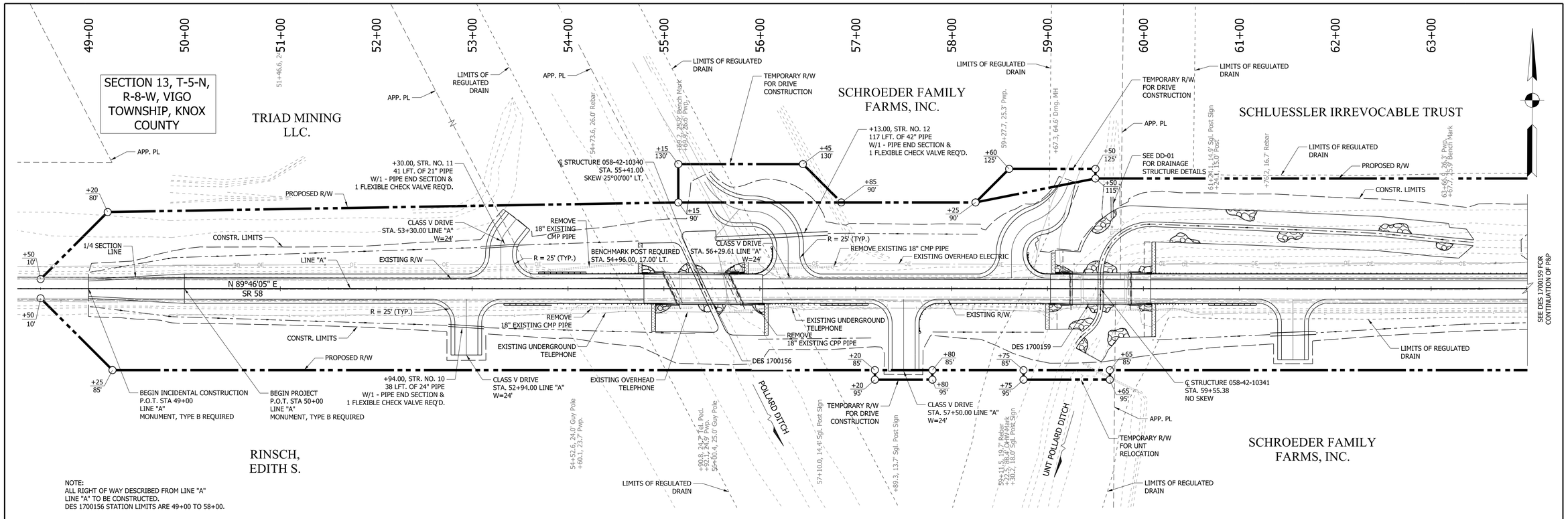

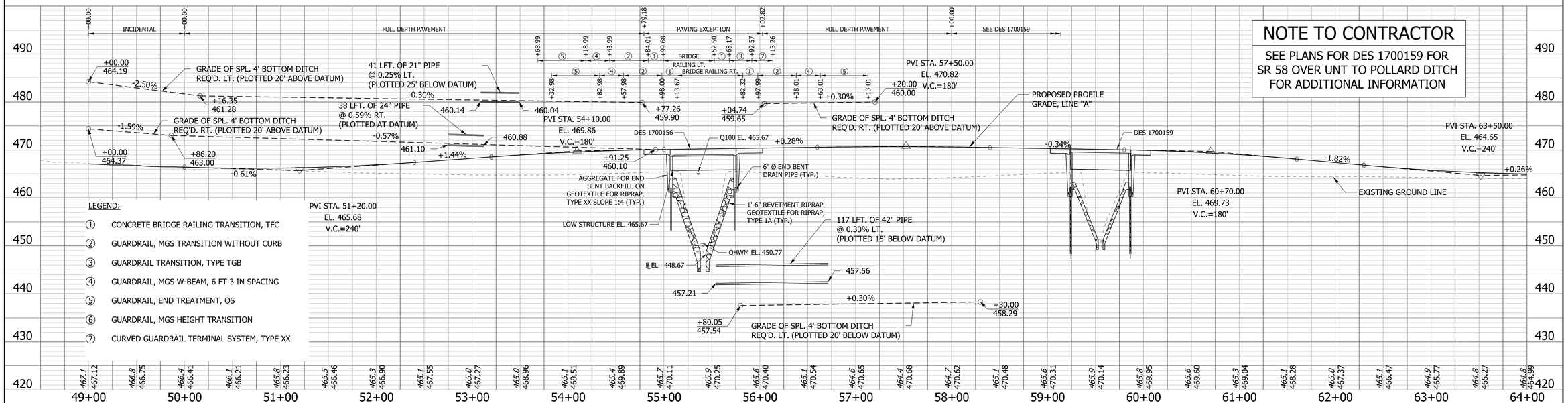

NOTE TO CONTRACTOR

SEE PLANS FOR DES 1700159 FOR SR 58 OVER UNT TO POLLARD DITCH FOR ADDITIONAL INFORMATION

NOTE TO REVIEWER

REFERENCE TIES AND BENCHMARKS WILL BE ADDED FOR FUTURE SUBMITTAL

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: EAH DRAWN: EAH
CHECKED: TMB CHECKED: RRJ

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
058-42-10340

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
1" = 10'	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	7 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

rrjacobs
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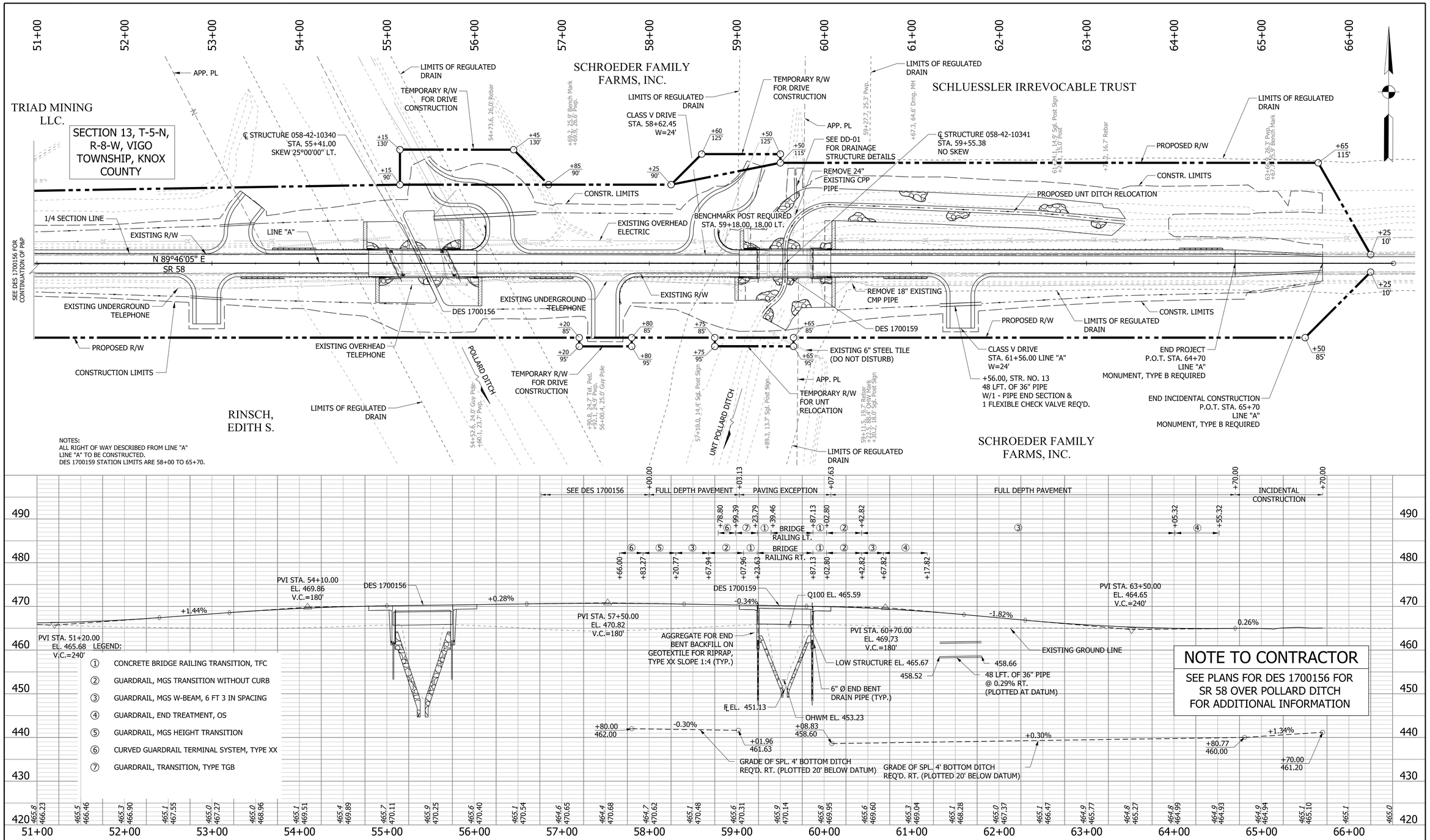

NOTE TO REVIEWER

REFERENCE TIES AND BENCHMARKS WILL BE ADDED FOR FUTURE SUBMITTAL

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: EAH DRAWN: EAH
CHECKED: RRJ CHECKED: RRJ

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE
058-42-10341

HORIZONTAL SCALE	BRIDGE FILE
1" = 50'	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
1" = 10'	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	8 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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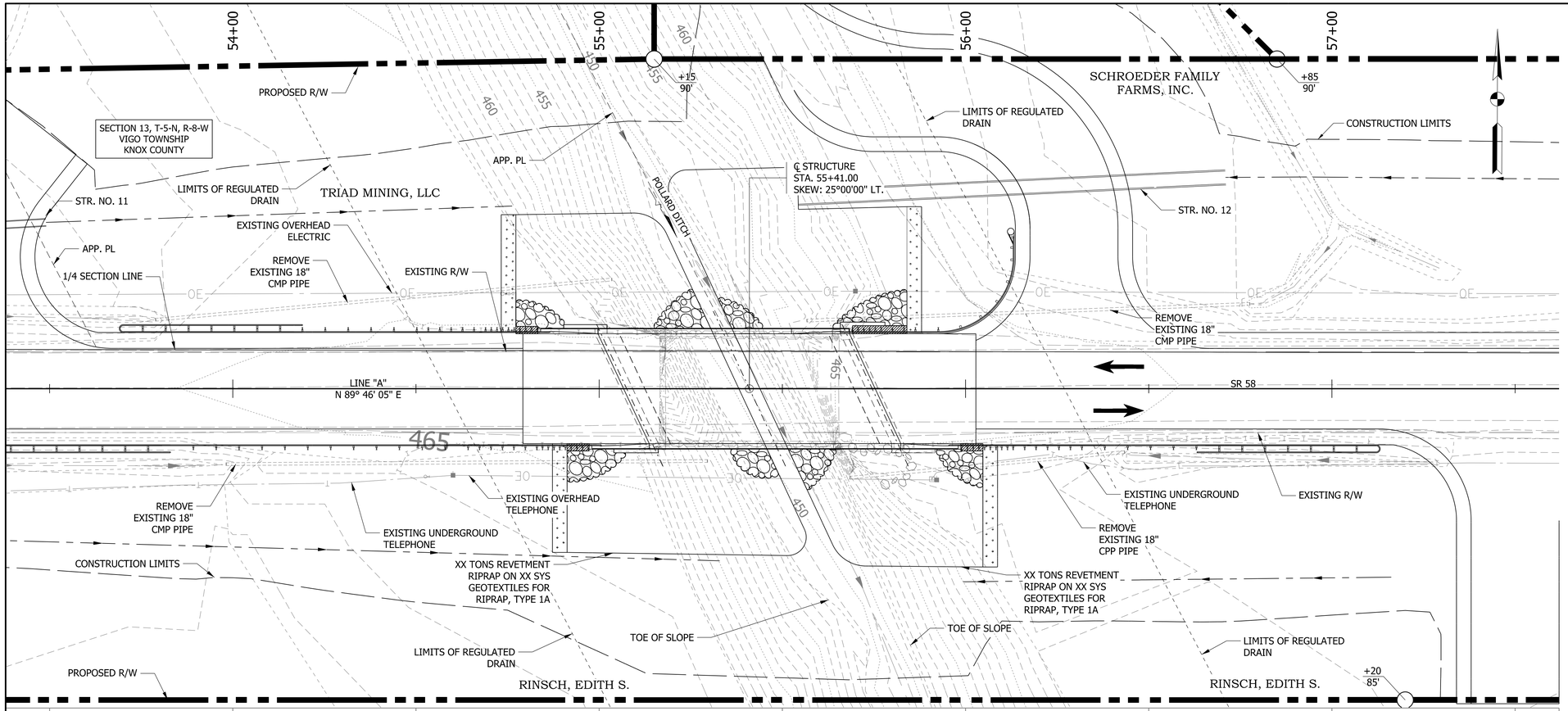

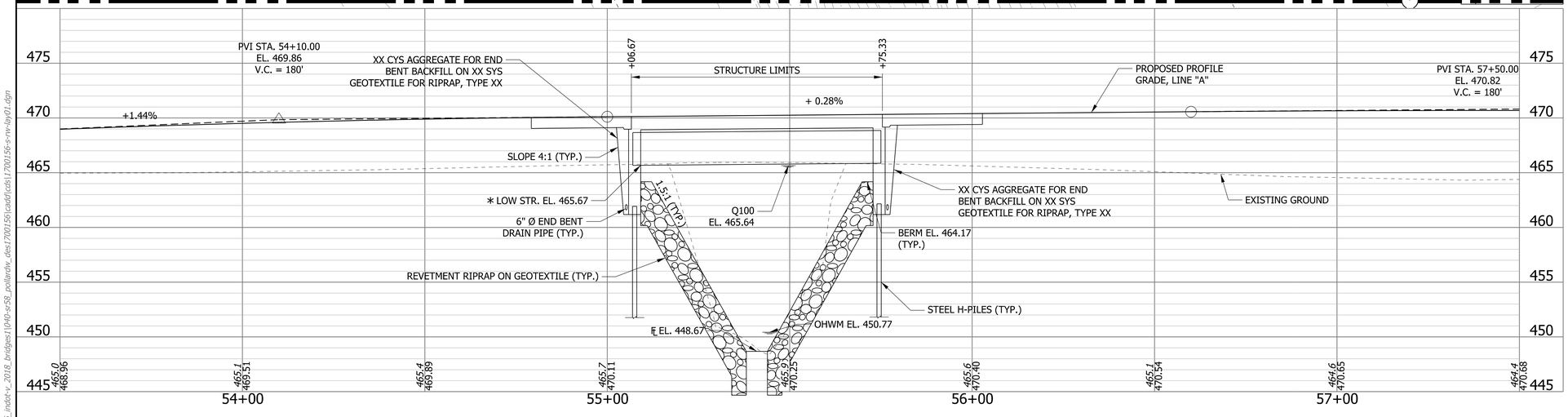

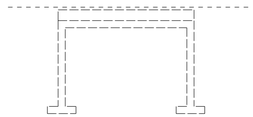

EXISTING STRUCTURE

THE EXISTING STRUCTURE WAS BUILT IN 1920 AS A STANDARD TRUSS BUILT ON CONCRETE ABUTMENTS. IN 1964 AND 1980 THE STRUCTURE WAS REHABILITATED. THE TRUSS WAS REMOVED, AND BOX BEAM SUPERSTRUCTURE INSTALLED. THE BRIDGE FLOOR LENGTH IS 49'-0" AND THE CLEAR ROADWAY WIDTH IS 28'-6". THE EXISTING STRUCTURE IS TO BE REMOVED AND REPLACED. EXISTING PLANS ARE ON FILE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION AS FILE NO. 058-42-06072 B.

HYDRAULIC DATA

WATERWAY OPENING REQUIRED	504.74	SFT
WATERWAY OPENING PROVIDED	527.9	SFT
DRAINAGE AREA	15.99	SQ MI
DESIGN DISCHARGE, Q100	3,720	CFS
VELOCITY	0.89	FT/S
Q100 ELEV.	465.67	FT
Q500 ELEV.	466.36	FT
ESTIMATED SCOUR ELEV.	423.02	FT
BACKWATER AT Q100	0.03	FT
EXISTING WATERWAY OPENING (STRAIGHT)	439.91	SFT
EXISTING BACKWATER	0.03	FT
MIN. LOW STRUCTURE ELEV. REQ.	465.67	FT
EXISTING LOW STRUCTURE ELEV.	463.62	FT

HYDRAULIC SCOUR DATA

NOT OVERTOPPING Q500 FLOW DATA:

VELOCITY (MAX.)	5.97	FT/S
SCOUR DEPTH (CONTRACTION)	25.65	FT
SCOUR DEPTH (TOTAL)	25.65	FT
LOW SCOUR ELEV.	423.02	FT

EARTHWORK TABULATION

FILL + 25%	xxx	CYS
COMMON EXCAVATION	xxx	CYS
USABLE WATERWAY EXCAVATION (70%)	0	CYS
SURPLUS FOUNDATION EXCAVATION	0	CYS
WASTE	xxx	CYS
TOTAL WATERWAY EXCAVATION	0	CYS
EXCAVATION UNCLASSIFIED	0	CYS
Ø BENCHING (ESTIMATED)	0	CYS

Ø NO DIRECT PAYMENT FOR BENCHING. BENCHING WILL NOT BE PAID FOR AS COMMON EXCAVATION.

∗ LOW STRUCTURE ELEVATION IS AN ESTIMATE AND WILL BE REFINED DURING FINAL DESIGN.

SINGLE SPAN PRESTRESSED CONCRETE
BULB-TEE BEAM BRIDGE
1 SPAN: 67'-0"
SKEW: 25°00'00" LT
30'-0" CLEAR ROADWAY
SR 58 OVER POLLARD DITCH
KNOX COUNTY

NOTE TO REVIEWER

EARTHWORK TABULATION WILL BE UPDATED FOR FUTURE SUBMITTALS

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: CDC DRAWN: CDC
CHECKED: TMB CHECKED: RRJ

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT
058-42-10340

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	9 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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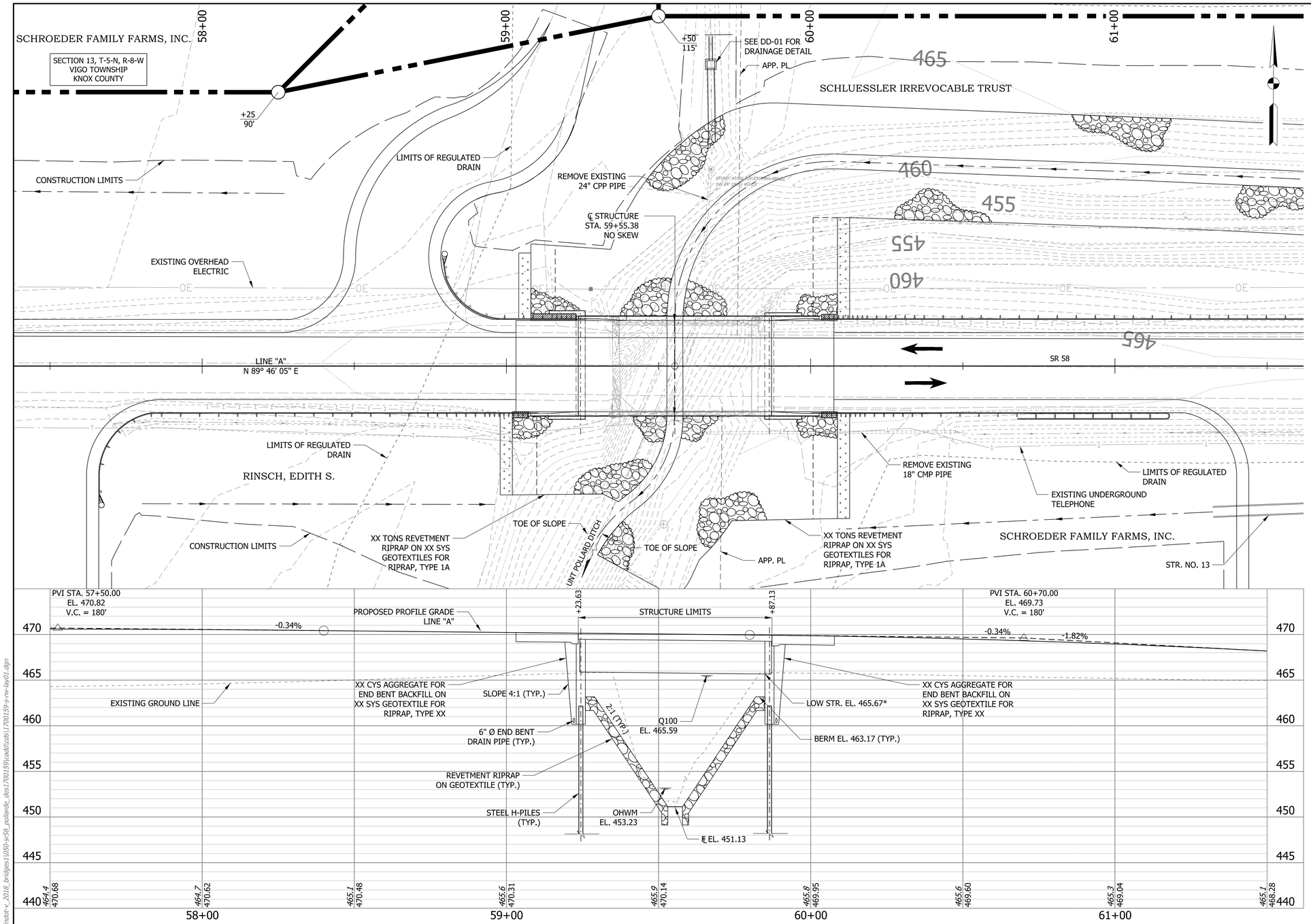

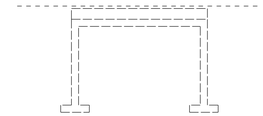

EXISTING STRUCTURE

THE EXISTING STRUCTURE WAS BUILT IN 1920 AS A STANDARD TRUSS BUILT ON CONCRETE ABUTMENTS. IN 1964 AND 1980 THE STRUCTURE WAS REHABILITATED. THE TRUSS WAS REMOVED, AND BOX BEAM SUPERSTRUCTURE INSTALLED. THE BRIDGE FLOOR LENGTH IS 49'-0" AND THE CLEAR ROADWAY WIDTH IS 28'-6". THE EXISTING STRUCTURE IS TO BE REMOVED AND REPLACED. EXISTING PLANS ARE ON FILE WITH THE INDIANA DEPARTMENT OF TRANSPORTATION AS FILE NO. 058-42-06073.

HYDRAULIC DATA

WATERWAY OPENING REQUIRED	358.44	SFT
WATERWAY OPENING PROVIDED	488.81	SFT
DRAINAGE AREA	1.73	SQ MI
DESIGN DISCHARGE, Q100	860	CFS
VELOCITY	0.20	FT/S
Q100 ELEV.	465.59	FT
Q500 ELEV.	466.30	FT
ESTIMATED SCOUR ELEV.	413.16	FT
BACKWATER AT Q100	0.00	FT
EXISTING WATERWAY OPENING	242.60	SFT
EXISTING BACKWATER	0.00	FT
MIN. LOW STRUCTURE ELEV. REQ.	465.67	FT
EXISTING LOW STRUCTURE ELEV.	463.69	FT

HYDRAULIC SCOUR DATA

NOT OVERTOPPING Q500 FLOW DATA:

VELOCITY (MAX.)	2.39	FT/S
SCOUR DEPTH (CONTRACTION)	37.97	FT
SCOUR DEPTH (TOTAL)	37.97	FT
LOW SCOUR ELEV.	413.16	FT

EARTHWORK TABULATION

FILL + 25%	xxx	CYS
COMMON EXCAVATION	xxx	CYS
USABLE WATERWAY EXCAVATION (70%)	0	CYS
SURPLUS FOUNDATION EXCAVATION	0	CYS
WASTE	xxx	CYS
TOTAL WATERWAY EXCAVATION	0	CYS
EXCAVATION UNCLASSIFIED	0	CYS
Ø BENCHING (ESTIMATED)	0	CYS

Ø NO DIRECT PAYMENT FOR BENCHING. BENCHING WILL NOT BE PAID FOR AS COMMON EXCAVATION.

* LOW STRUCTURE ELEVATION IS AN ESTIMATE AND WILL BE REFINED DURING FINAL DESIGN.

SINGLE-SPAN PRESTRESSED
CONCRETE BULB-TEE BEAM
1 SPAN: 62'-0"
30'-0" CLEAR ROADWAY
SR 58 OVER UNT POLLARD DITCH
KNOX COUNTY

NOTE TO REVIEWER

EARTHWORK QUNATITIES WILL BE UPDATED FOR FUTURE SUBMITTALS

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: CDC DRAWN: CDC
CHECKED: TMB CHECKED: RRJ

INDIANA
DEPARTMENT OF TRANSPORTATION

LAYOUT
058-42-10341

HORIZONTAL SCALE	BRIDGE FILE
1/16" = 1'-0"	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	10 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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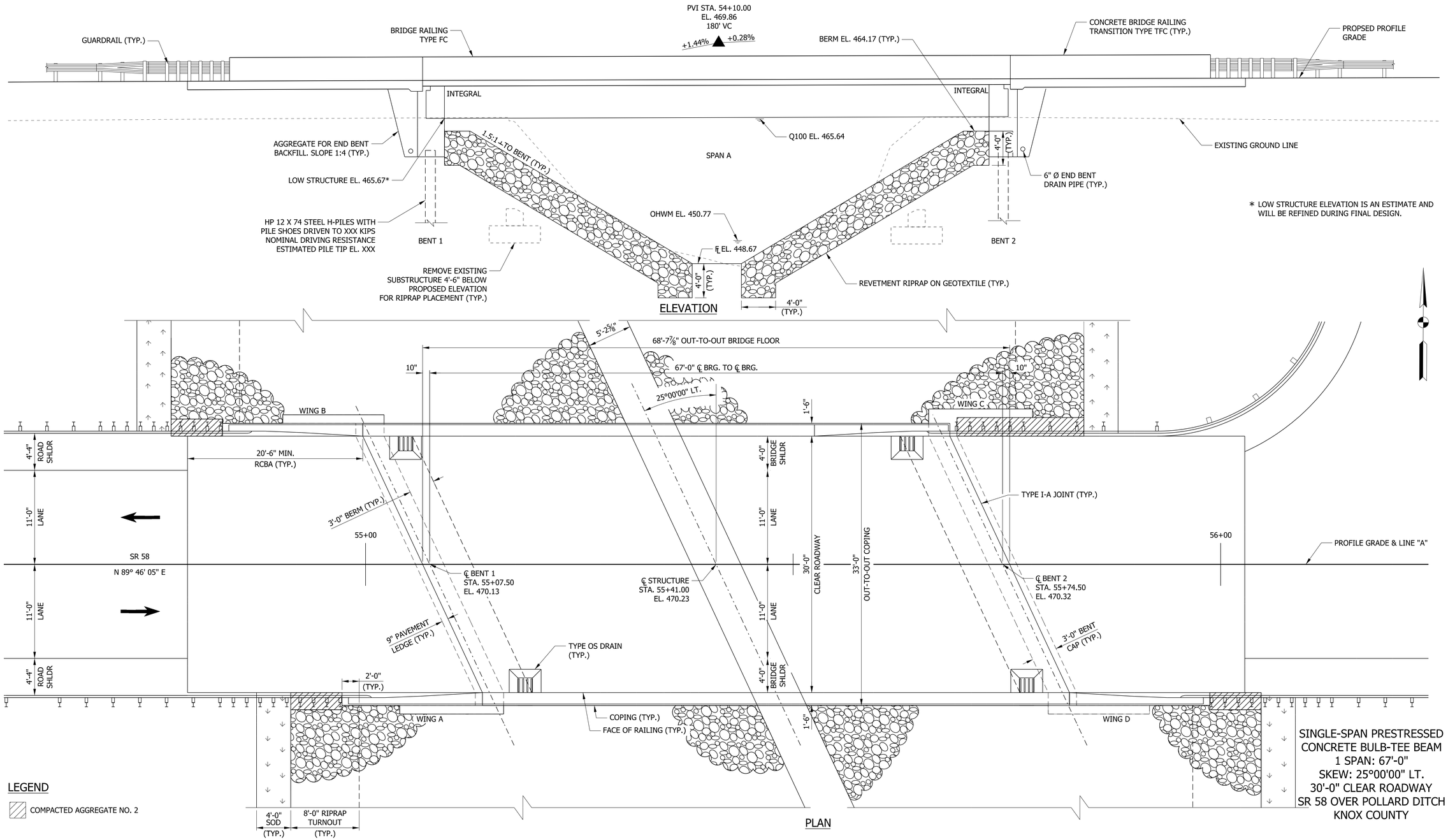
STRUCTURE TO BE BUILT ON A 180' VERTICAL CURVE



SINGLE-SPAN PRESTRESSED CONCRETE BULB-TEE BEAM
1 SPAN: 67'-0"
SKEW: 25°00'00" LT.
30'-0" CLEAR ROADWAY
SR 58 OVER POLLARD DITCH
KNOX COUNTY

NOTE TO REVIEWER	NOTE TO REVIEWER
PAVEMENT LEDGE HAS BEEN INCREASED TO 9" PER COORDINATION WITH THE INDOT STRUCTURES COMMITTEE	PER COORDINATION WITH VINCENNES DISTRICT AND INDOT HYDRAULICS, EXISTING LOW STRUCTURE ELEVATION IS TO BE MAINTAINED

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER _____ DATE

DESIGNED: EAH DRAWN: EAH
CHECKED: TMB CHECKED: RRJ

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
058-42-10340

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	11 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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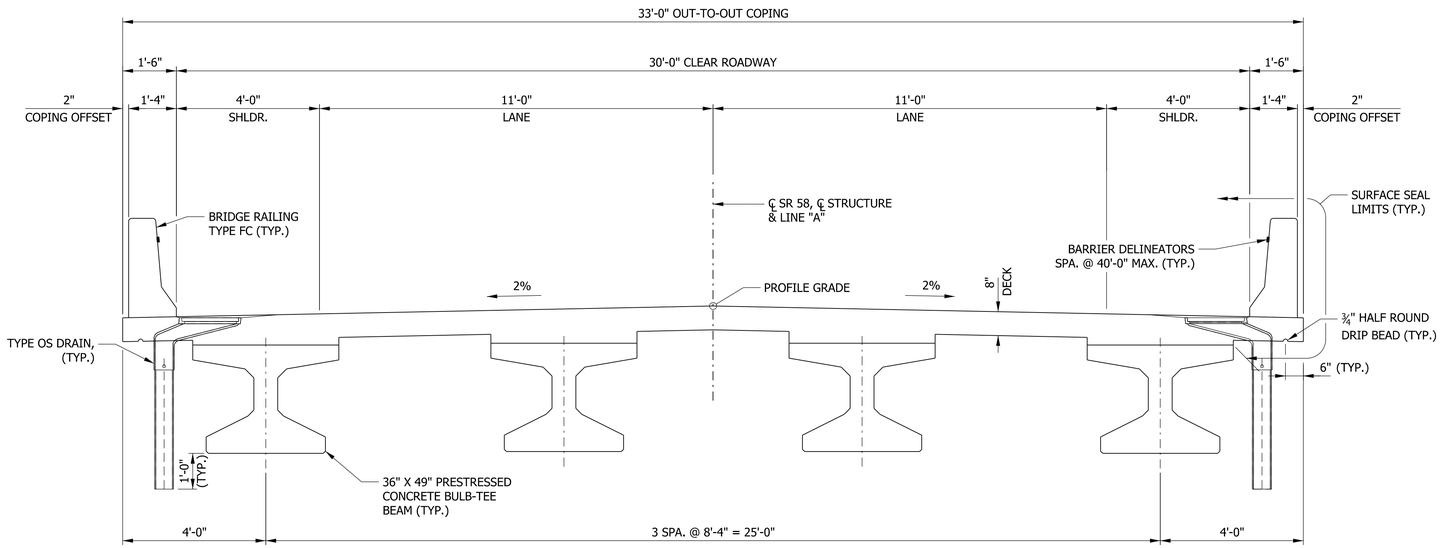
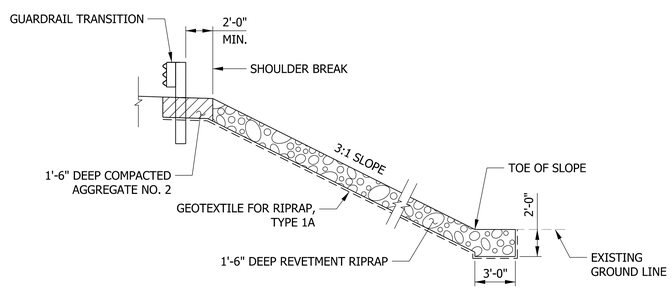
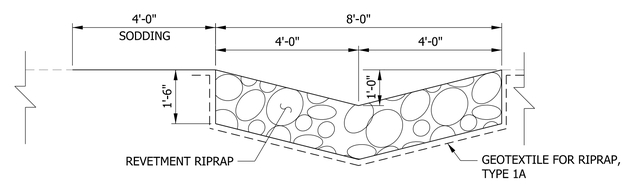


TYPICAL SECTION
(LOOKING AHEAD STATION)
SCALE: ½" = 1'-0"



ELEVATION
SCALE: 3/16" = 1'-0"



TYPICAL SECTION
SCALE: ½" = 1'-0"

TURNOUT DETAILS

GENERAL NOTES

REINFORCING BAR COVER SHALL BE 2½" MIN. IN TOP AND 1" MIN. IN BOTTOM OF FLOOR SLABS, AND 2" MIN. IN ALL OTHER PARTS, UNLESS NOTED.

ALL DIMENSIONS AND ELEVATIONS ARE IN FEET (FT) UNLESS OTHERWISE NOTED.

ALL CONCRETE IS TO BE CLASS "C". REINFORCING BARS IN DECK, BARRIERS, BARRIER TRANSITIONS, AND END BENTS SHALL BE EPOXY COATED.

ALL THE EXPOSED FACES OF THE END BENTS, BARRIERS, BARRIER TRANSITIONS, THE TOP OF DECK, THE FACE OF THE DECK COPING, THE REINFORCED CONCRETE BRIDGE APPROACH SLABS, AND THE UNDERSIDE OF THE DECK FROM COPING TO THE FACE OF THE EXTERIOR BEAM SHALL RECEIVE SURFACE SEAL. ALL SURFACE SEAL WILL BE PAID FOR AS LUMP SUM.

DESIGN DATA

LIVE LOAD
SUPERSTRUCTURE AND SUBSTRUCTURE DESIGNED FOR HL-93 LOADING IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017 AND ITS SUBSEQUENT INTERIMS.

DEAD LOAD
DESIGNED FOR ACTUAL DEAD LOAD PLUS 35 PSF OF FUTURE WEARING SURFACE AND 15 PSF FOR PERMANENT METAL DECK FORMS.

FLOOR SLAB
DESIGNED WITH A 7½" STRUCTURAL DEPTH PLUS ½" SACRIFICIAL WEARING SURFACE.

SEISMIC DESIGN DATA

SEISMIC PERFORMANCE ZONE = XX
ACCELERATION COEFFICIENT = XX
SEISMIC SOIL PROFILE TYPE = XX

DESIGN STRENGTHS

PRESTRESSED CONCRETE	f'c = 8,000 psi @ 28 DAYS
PRESTRESSED CONCRETE	f'c = 6,500 psi @ RELEASE
CLASS "C" CONCRETE	f'c = 4,000 psi
REINFORCING STEEL	f'c = 60,000 psi

CONSTRUCTION LOADING

THE EXTERIOR BEAM HAS BEEN CHECKED FOR STRENGTH, DEFLECTION, AND OVERTURNING USING THE CONSTRUCTION LOADS SHOWN BELOW.
CANTILEVER OVERHANG BRACKETS WERE ASSUMED FOR SUPPORT OF THE DECK OVERHANG PAST THE EDGE OF THE EXTERIOR BEAM. THE FINISHING MACHINE WAS ASSUMED TO BE SUPPORTED 6 IN. OUTSIDE THE VERTICAL COPING FORM. THE TOP OVERHANG BRACKETS WERE ASSUMED TO BE LOCATED 6 IN. PAST THE EDGE OF THE VERTICAL COPING FORM. THE BOTTOM OVERHANG BRACKETS WERE ASSUMED TO BE BRACED AGAINST THE INTERSECTION OF THE GIRDER BOTTOM FLANGE AND WEB.

DECK FALSEWORK LOADS
DESIGNED FOR 15 PSF FOR PERMANENT METAL STAY-IN-PLACE DECK FORMS, REMOVABLE DECK FORMS, AND 2 FT EXTERIOR WALKWAY.

CONSTRUCTION LIVE LOAD
DESIGNED FOR 20 PSF EXTENDING 2 FT PAST THE EDGE OF COPING AND 75 LB/FT VERTICAL FORCE APPLIED AT A DISTANCE OF 6 IN. OUTSIDE THE FACE OF COPING OVER A 30 FT LENGTH OF THE DECK CENTERED WITH THE FINISHING MACHINE.

FINISHING-MACHINE LOAD
4500 LB DISTRIBUTED OVER 10 FT ALONG THE COPING.

WIND LOAD
STRUCTURE DESIGNED FOR 70 MPH HORIZONTAL WIND LOADING IN ACCORDANCE WITH AASHTO LRFD 3.8.1.

SINGLE-SPAN PRESTRESSED
CONCRETE BULB-TEE BEAM
1 SPAN: 67'-0"
SKEW: 25°00'00" LT.
30'-0" CLEAR ROADWAY
SR 58 OVER POLLARD DITCH
KNOX COUNTY

NOTE TO REVIEWER

SOIL INFORMATION AND SEISMIC DESIGN DATA WILL BE PROVIDED FOR THE FUTURE SUBMITTAL

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: EAH DRAWN: EAH
CHECKED: TMB CHECKED: RRJ

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
058-42-10340

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
AS NOTED	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	12 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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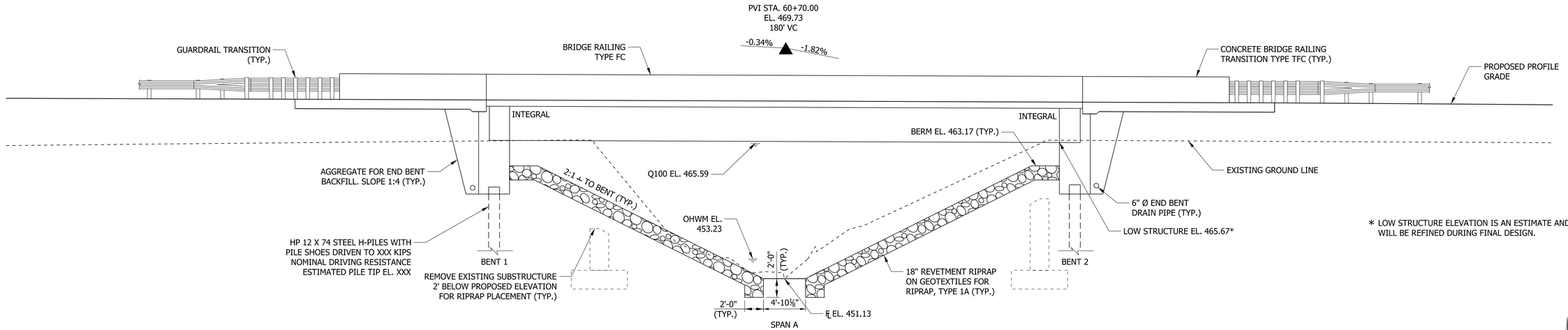
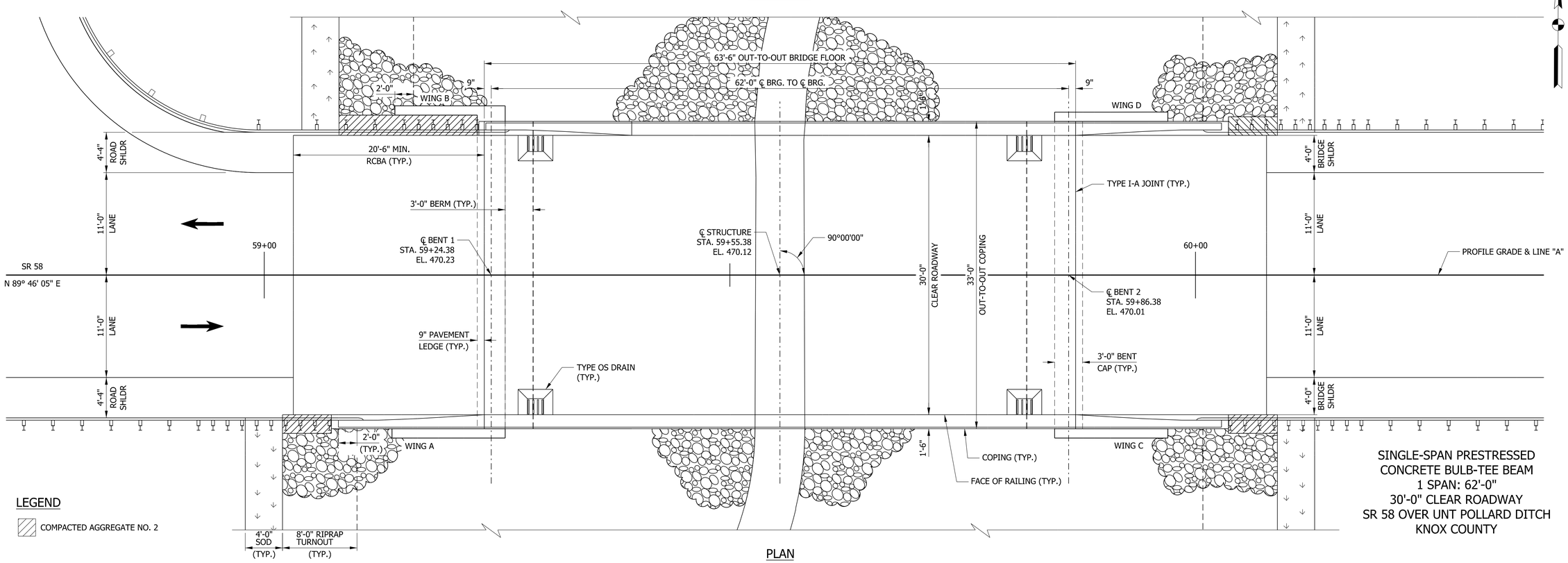
STRUCTURE TO BE BUILT ON A 180' VERTICAL CURVE



* LOW STRUCTURE ELEVATION IS AN ESTIMATE AND WILL BE REFINED DURING FINAL DESIGN.

ELEVATION



PLAN

LEGEND

COMPACTED AGGREGATE NO. 2

SINGLE-SPAN PRESTRESSED
CONCRETE BULB-TEE BEAM
1 SPAN: 62'-0"
30'-0" CLEAR ROADWAY
SR 58 OVER UNT POLLARD DITCH
KNOX COUNTY

NOTE TO REVIEWER	NOTE TO REVIEWER
PAVEMENT LEDGE HAS BEEN INCREASED TO 9" PER COORDINATION WITH THE INDOT STRUCTURES COMMITTEE	PER COORDINATION WITH VINCENNES DISTRICT AND INDOT HYDRAULICS, EXISTING LOW STRUCTURE ELEVATION IS TO BE MAINTAINED

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: RRJ DRAWN: RRJ
CHECKED: MRS CHECKED: MRS

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
058-42-10341

HORIZONTAL SCALE	BRIDGE FILE
3/16" = 1'-0"	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
3/16" = 1'-0"	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	13 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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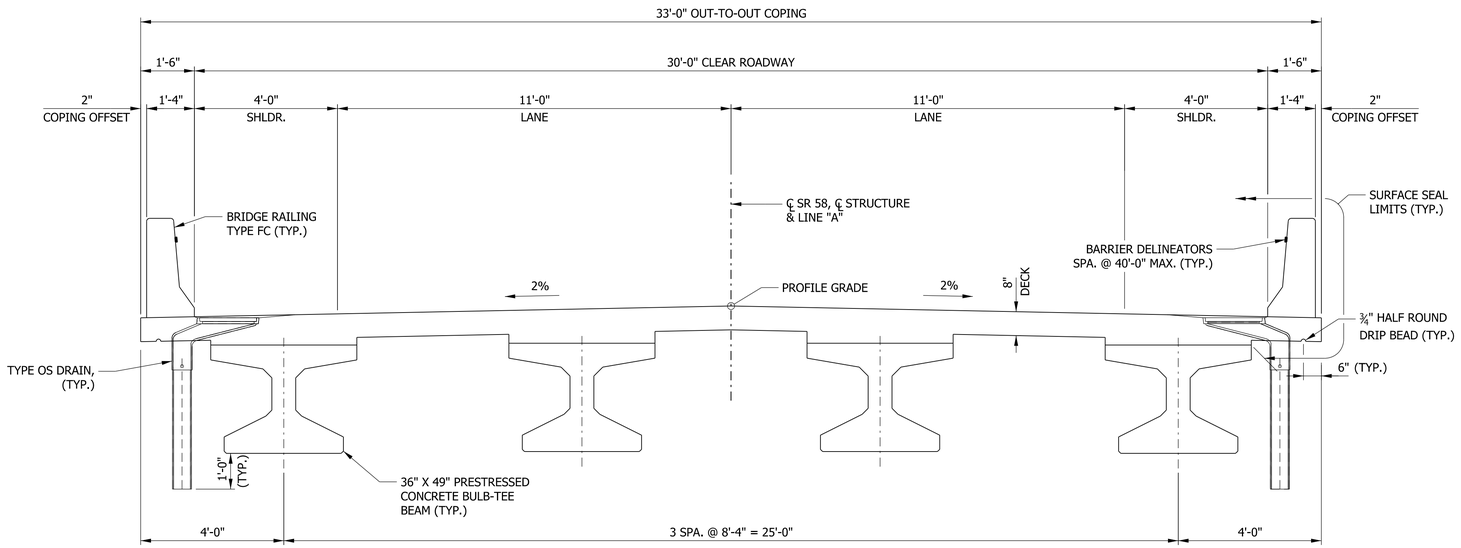
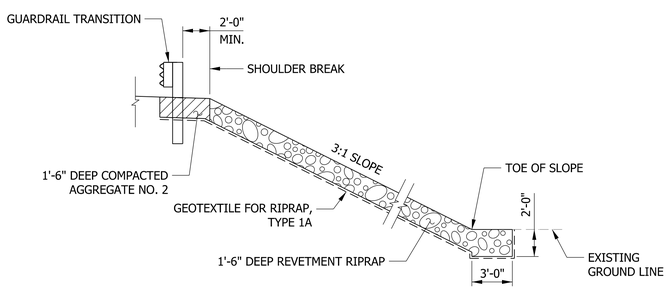
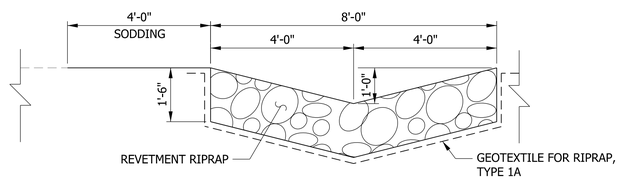


TYPICAL SECTION
(LOOKING AHEAD STATION)
SCALE: ½" = 1'-0"



ELEVATION
SCALE: 3/16" = 1'-0"



TYPICAL SECTION
SCALE: ½" = 1'-0"

TURNOUT DETAILS

GENERAL NOTES

REINFORCING BAR COVER SHALL BE 2½" MIN. IN TOP AND 1" MIN. IN BOTTOM OF FLOOR SLABS, AND 2" MIN. IN ALL OTHER PARTS, UNLESS NOTED.

ALL DIMENSIONS AND ELEVATIONS ARE IN FEET (FT) UNLESS OTHERWISE NOTED.

ALL CONCRETE IS TO BE CLASS "C". REINFORCING BARS IN DECK, BARRIERS, BARRIER TRANSITIONS, AND END BENTS SHALL BE EPOXY COATED.

ALL THE EXPOSED FACES OF THE END BENTS, BARRIERS, BARRIER TRANSITIONS, THE TOP OF DECK, THE FACE OF THE DECK COPING, THE REINFORCED CONCRETE BRIDGE APPROACH SLABS, AND THE UNDERSIDE OF THE DECK FROM COPING TO THE FACE OF THE EXTERIOR BEAM SHALL RECEIVE SURFACE SEAL. ALL SURFACE SEAL WILL BE PAID FOR AS LUMP SUM.

DESIGN DATA

LIVE LOAD
SUPERSTRUCTURE AND SUBSTRUCTURE DESIGNED FOR HL-93 LOADING IN ACCORDANCE WITH AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 8TH EDITION, 2017 AND ITS SUBSEQUENT INTERMS.

DEAD LOAD
DESIGNED FOR ACTUAL DEAD LOAD PLUS 35 PSF OF FUTURE WEARING SURFACE AND 15 PSF FOR PERMANENT METAL DECK FORMS.

FLOOR SLAB
DESIGNED WITH A 7½" STRUCTURAL DEPTH PLUS ½" SACRIFICIAL WEARING SURFACE.

SEISMIC DESIGN DATA

SEISMIC PERFORMANCE ZONE = XX
ACCELERATION COEFFICIENT = XX
SEISMIC SOIL PROFILE TYPE = XX

DESIGN STRENGTHS

PRESTRESSED CONCRETE	f'c = 8,000 psi @ 28 DAYS
PRESTRESSED CONCRETE	f'c = 6,500 psi @ RELEASE
CLASS "C" CONCRETE	f'c = 4,000 psi
REINFORCING STEEL	f'c = 60,000 psi

CONSTRUCTION LOADING

THE EXTERIOR BEAM HAS BEEN CHECKED FOR STRENGTH, DEFLECTION, AND OVERTURNING USING THE CONSTRUCTION LOADS SHOWN BELOW.
CANTILEVER OVERHANG BRACKETS WERE ASSUMED FOR SUPPORT OF THE DECK OVERHANG PAST THE EDGE OF THE EXTERIOR BEAM. THE FINISHING MACHINE WAS ASSUMED TO BE SUPPORTED 6 IN. OUTSIDE THE VERTICAL COPING FORM. THE TOP OVERHANG BRACKETS WERE ASSUMED TO BE LOCATED 6 IN. PAST THE EDGE OF THE VERTICAL COPING FORM. THE BOTTOM OVERHANG BRACKETS WERE ASSUMED TO BE BRACED AGAINST THE INTERSECTION OF THE GIRDER BOTTOM FLANGE AND WEB.

DECK FALSEWORK LOADS
DESIGNED FOR 15 PSF FOR PERMANENT METAL STAY-IN-PLACE DECK FORMS, REMOVABLE DECK FORMS, AND 2 FT EXTERIOR WALKWAY.

CONSTRUCTION LIVE LOAD
DESIGNED FOR 20 PSF EXTENDING 2 FT PAST THE EDGE OF COPING AND 75 LB/FT VERTICAL FORCE APPLIED AT A DISTANCE OF 6 IN. OUTSIDE THE FACE OF COPING OVER A 30 FT LENGTH OF THE DECK CENTERED WITH THE FINISHING MACHINE.

FINISHING-MACHINE LOAD
4500 LB DISTRIBUTED OVER 10 FT ALONG THE COPING.

WIND LOAD
STRUCTURE DESIGNED FOR 70 MPH HORIZONTAL WIND LOADING IN ACCORDANCE WITH AASHTO LRFD 3.8.1.

SINGLE-SPAN PRESTRESSED
CONCRETE BULB-TEE BEAM
1 SPAN: 67'-0"
SKEW: 25°00'00" LT.
30'-0" CLEAR ROADWAY
SR 58 OVER POLLARD DITCH
KNOX COUNTY

NOTE TO REVIEWER

SOIL INFORMATION AND SEISMIC DESIGN DATA WILL BE PROVIDED FOR THE FUTURE SUBMITTAL

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL
DESIGN ENGINEER DATE

DESIGNED: RRJ DRAWN: RRJ
CHECKED: MRS CHECKED: MRS

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
058-42-10341

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
AS NOTED	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	14 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADII	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE: COMPACTED AGGREGATE BASE	SURFACE BEYOND R/W LINE: HMA	SURFACE BEYOND R/W LINE: CONCRETE	GRADE 1	GRADE 2	GRADE 3	GRADE 4	EXCAVATION CUT	EXCAVATION FILL	CLEAR ZONE AT DRIVE	HMA MATERIALS: 3, 64, SURFACE 9.5 mm (LBS. PER SYD.) 165	HMA MATERIALS: 2, 64, INTERMD. 19.0 mm (LBS. PER SYD.) 275	HMA MATERIALS: 2, 64, BASE 19.0 mm (LBS. PER SYD.) 330	HMA MATERIAL FOR: PRIME COAT	HMA MATERIAL FOR: TACK COAT	JOINT ADHESIVE, SURFACE	JOINT ADHESIVE, INTERMEDIATE	LIQUID ASPHALT SEALANT	SUBGRADE TREATMENT, TYPE IC	MILLING, ASPHALT, 1 1/2"	MILLED HMA CORREGATIONS, SINUSOIDAL	COMPACTED AGGREGATE, NO. 53	REMARKS
		FT	FT	FT	FT	SYS	SYS	SYS	%	%	%	%	CYS	CYS	FT	SYS	SYS	SYS	SYS	SYS	LFT	LFT	LFT	SYS	SYS	LFT	TONS	
STA. 49+00.00 TO 54+79.18 LINE "A"													XX	XX		1914	1692	1692		3607	779	679	779	1927	223	958	593	
STA. 56+02.82 TO 58+00.00 LINE "A"													XX	XX		672	672	672		1344	198	198	198	760	0	395	228	
STA. 58+00.00 TO 59+03.13 LINE "A"													XX	XX		352	352	352		703	103	103	103	397	0	206	119	
STA. 60+07.63 TO 65+70.00 LINE "A"													XX	XX		1857	1635	1635		3492	763	663	763	1863	223	925	574	
52+94.00 RT. LINE "A"	CLASS V DRIVE	24	58.25	25					-2	-13	-0.23				30													
53+30.00 LT. LINE "A"	CLASS V DRIVE	24	65.46	25					-2	-13	-10	4			30													
56+29.61 LT. LINE "A"	CLASS V DRIVE	24	157.48	25	29.0				-2	-3	0.4				30													
57+50.00 RT. LINE "A"	CLASS V DRIVE	24	75.00	25	1.1				-2	-13	-11	2.66			30													
58+62.45 LT. LINE "A"	CLASS V DRIVE	24	124.70	25	24.0				-2	-13	-0.49				30													
61+56.00 RT. LINE "A"	CLASS V DRIVE	24	63.12	25					-2	-13	-0.19				30													
TOTAL													XX	XX		4795	4351	4351		9146	1843	1643	1843	4947	446	2484	1514	

NOTE TO REVIEWER

ADDITIONAL SUMMARY TABLES WILL BE UPDATED IN FUTURE SUBMITTALS.

DRAFT
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE

DESIGNED: CDC DRAWN: CDC

CHECKED: MRS CHECKED: MRS

INDIANA
DEPARTMENT OF TRANSPORTATION

SUMMARY TABLES

HORIZONTAL SCALE	BRIDGE FILE
N/A	058-42-10340 & 058-42-10341
VERTICAL SCALE	DESIGNATION
N/A	1700156 & 1700159
SURVEY BOOK	SHEETS
ELECTRONIC	15 of 15
CONTRACT	PROJECT
B-40554	1700156 & 1700159

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