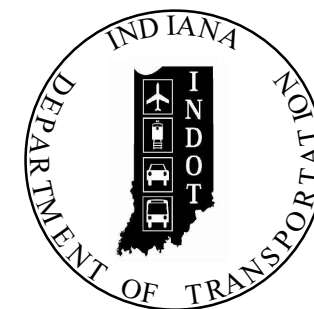


PROJECT	DESIGNATION
1800147	1800147
CONTRACT	BRIDGE FILE
R-40576	N/A

CULVERT ASSETS	
Des. No.	Culvert Asset ID
1800147	CV-157-011-21.14

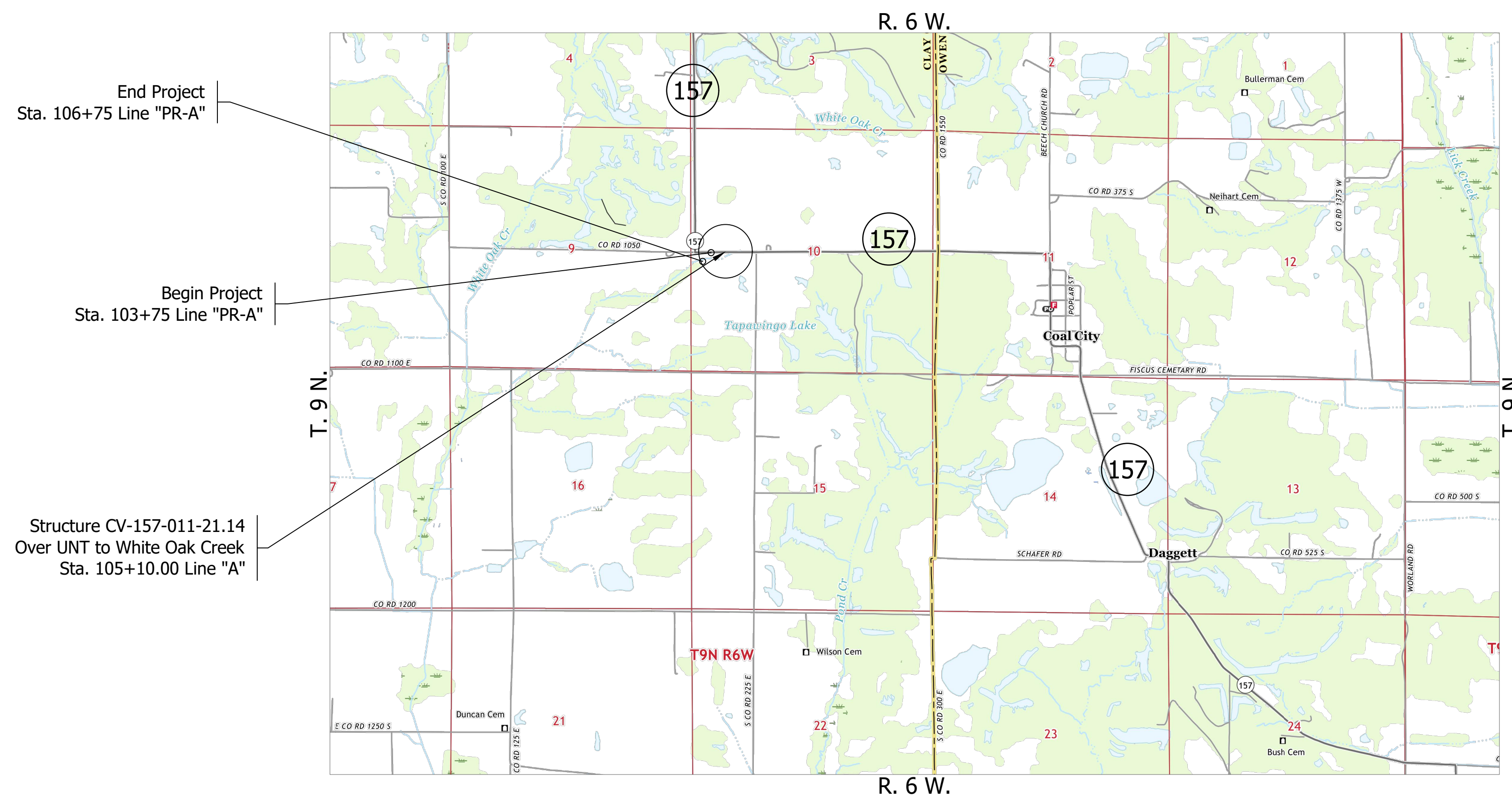
INDIANA DEPARTMENT OF TRANSPORTATION



ROAD PLANS

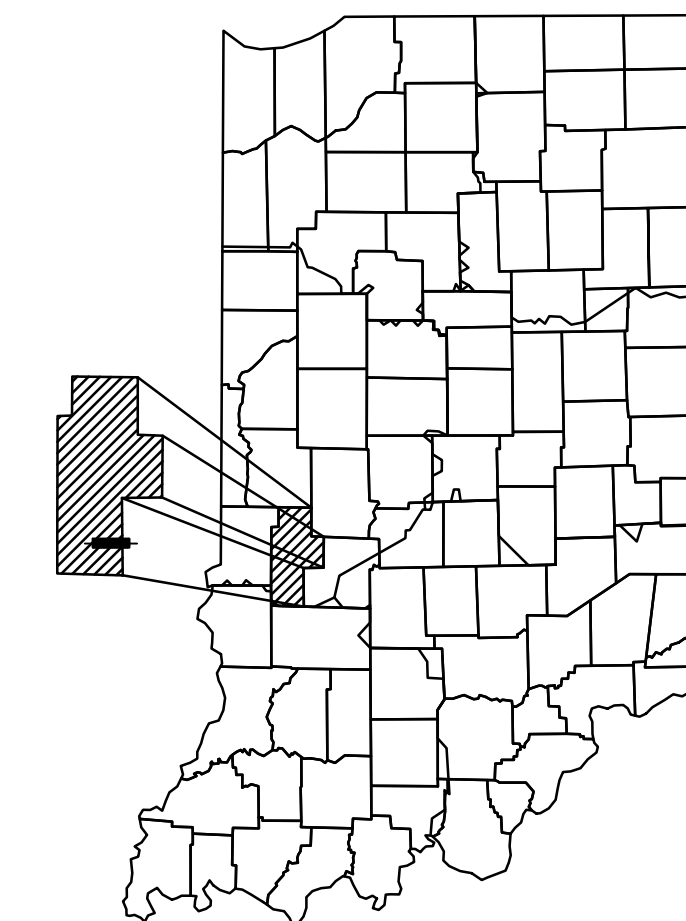
ROUTE: SR 157 AT: RP 21+14
 PROJECT NO. 1800147 P.E.
 1800147 R/W
 1800147 CONST.

Small Structure Replacement on SR 157 over Unnamed Tributary to White Oak Creek, Located 5.19 Miles South of SR 246, Section 10, Township 9 North, Range 6 West, Harrison Township, Clay County, Indiana.

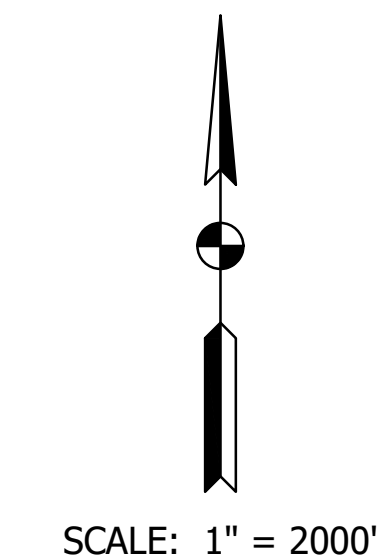


LOCATION MAP
CLAY COUNTY

TRAFFIC DATA		
A.A.D.T. (2022)		572 V.P.D.
A.A.D.T. (2042)		657 V.P.D.
D.H.V (2042)		78 V.P.H.
DIRECTIONAL DISTRIBUTION		51.4 %
TRUCKS		42 A.A.D.T.
		6.3 % A.A.D.T.
DESIGN DATA		
DESIGN SPEED		55 M.P.H.
PROJECT DESIGN CRITERIA		3R (Non-Freeway)
FUNCTIONAL CLASSIFICATION		RURAL COLLECTOR
RURAL/URBAN		RURAL
TERRAIN		LEVEL
ACCESS CONTROL		NONE



PROJECT LOCATION SHOWN BY CLAY



LATITUDE: 39° 14' 02.9" N LONGITUDE: 87° 04' 12.8" W

BRIDGE LENGTH:	0.000	MI.
ROADWAY LENGTH:	0.057	MI.
TOTAL LENGTH:	0.057	MI.
MAX. GRADE:	2.49	%

STAGE 1
PLANS SUBMITTAL
05/15/2020

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



PLANS PREPARED BY:	Infrastructure Engineering, Inc.	317-243-9800 PHONE NUMBER
CERTIFIED BY:		DATE
APPROVED FOR LETTING:	INDIANA DEPARTMENT OF TRANSPORTATION	DATE

BRIDGE FILE	N/A
DESIGNATION	1800147
SURVEY BOOK	SHEETS
ELECTRONIC	1 of 14
CONTRACT	PROJECT
R-40576	1800147

Last Update: May 14, 2020, 1:14pm
Drawing name: Q:\P\19\3853-OC - Small Str - SR 157 UNT White Oak Crk 1800147 (INDOT)\DWG\Sheets\3853-OC - Title Sheet.dwg

UTILITIES

DUKE ENERGY
 3395 GREENBUSH ST.
 LAFAYETTE, IN 47905
 (269) 274-5259

FRONTIER COMMUNICATION
 115 N. BOW ST.
 THORNTOWN, IN 46071
 (765) 742-2635



**Know what's below.
 Call before you dig.**

INDIANA UNDERGROUND
 1-800-382-5544 OR CALL 811
 24 HOURS A DAY 7 DAYS A WEEK

INDEX

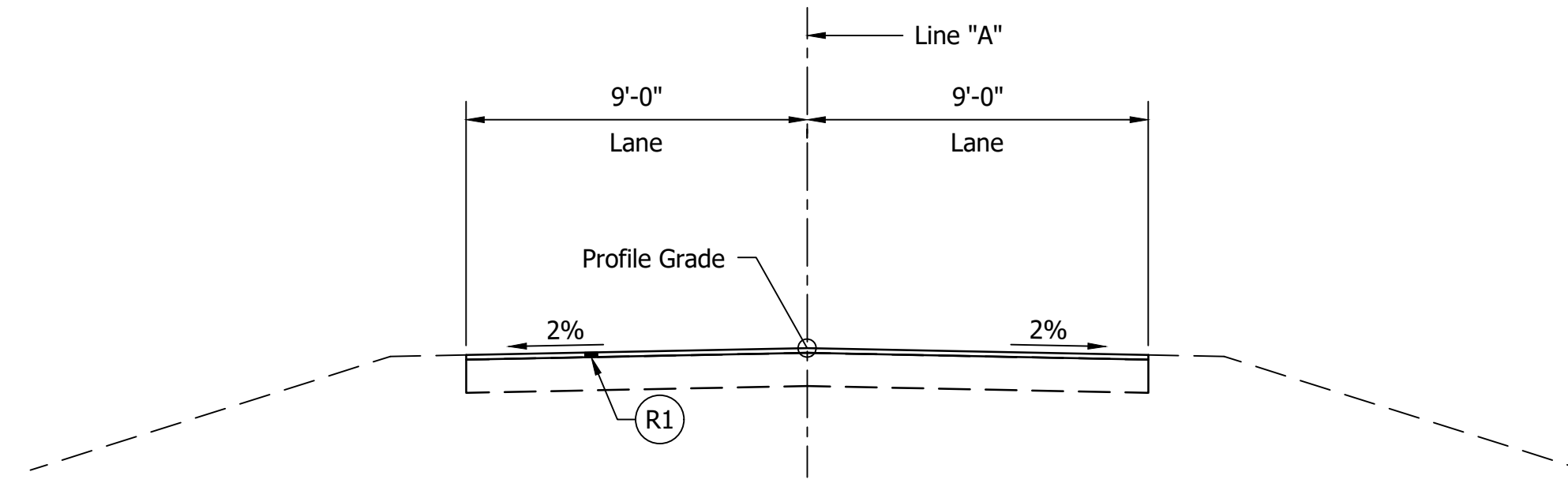
SHEET NO.	SUBJECT
1	TITLE
2	INDEX
3	TYPICAL SECTIONS
4	DETOUR
5	PLAN AND PROFILE
6	GENERAL PLAN
7	ROADWAY SUMMARY TABLES
8-14	ROADWAY CROSS SECTIONS

REVISIONS

SHEET NO.	DATE	REVISED

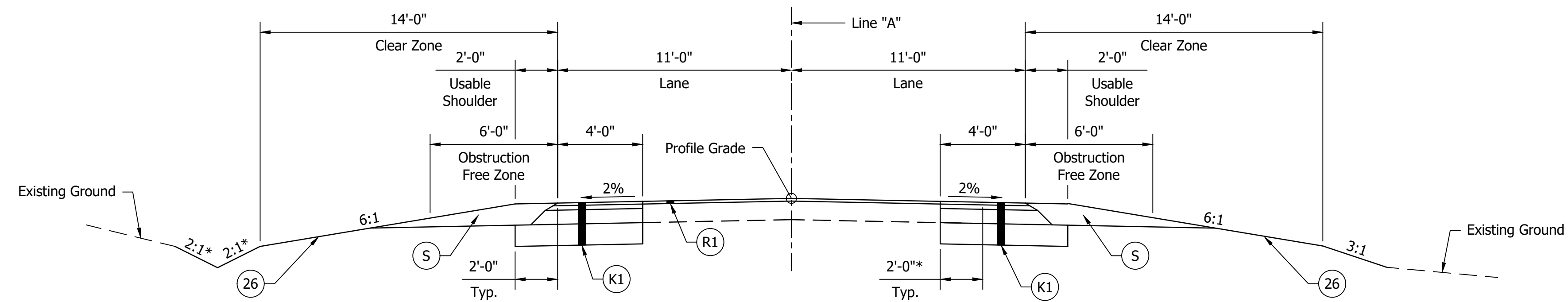
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER DATE	INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE	BRIDGE FILE
			AS NOTED	N/A
DESIGNED: EAS 05/2020 DRAWN: EAS 05/2020	INDEX		VERTICAL SCALE	DESIGNATION
CHECKED: DTQ 05/2020 CHECKED: NDB 05/2020			N/A	1800147
			SURVEY BOOK	SHEET
	ELECTRONIC	2 of 14		
	CONTRACT	PROJECT		
	R-40576	1800147		



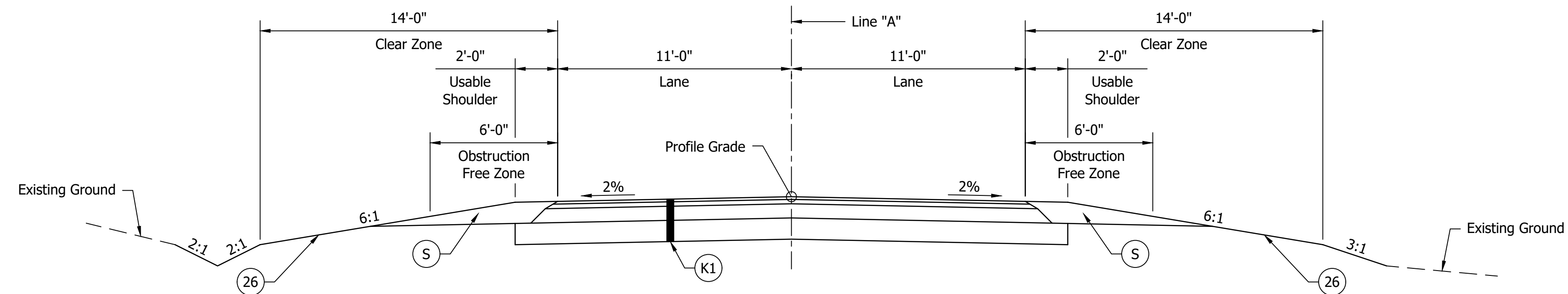
TRANSITION PAVEMENT

Scale: 1/4" = 1'-0"
 Sta. 102+75.00 to Sta. 103+75.00
 Sta. 106+75.00 to Sta. 107+75.00



WIDENING AND OVERLAY

Scale: 1/4" = 1'-0"
 Sta. 103+75.00 to Sta. 104+75.00
 Sta. 105+30.00 to Sta. 106+75.00



FULL DEPTH PAVEMENT

Scale: 1/4" = 1'-0"
 Sta. 104+75.00 to Sta. 105+30.00

LEGEND

- (R1) 1 1/2" mill existing pavement then overlay with 165 lbs/sys QC/QA-HMA, 3, 70, Surface, 9.5 mm
- (K1) 165 lbs/sys QC/QA-HMA, 3, 70, Surface, 9.5 mm on 275 lbs/sys QC/QA-HMA, 2, 70, Intermediate, 19.0 mm on 880 lbs/sys QC/QA-HMA, 2, 70, Base, 19.0 mm on Subgrade Treatment, Type IC
- (S) Compacted Aggregate, No. 53
- (26) Mulched Seeding, R

NOTES
 - All stationing along Line "PR-A"



NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: EAS	05/2020	DRAWN: EAS	05/2020		
CHECKED: DTQ	05/2020	CHECKED: NDB	05/2020		

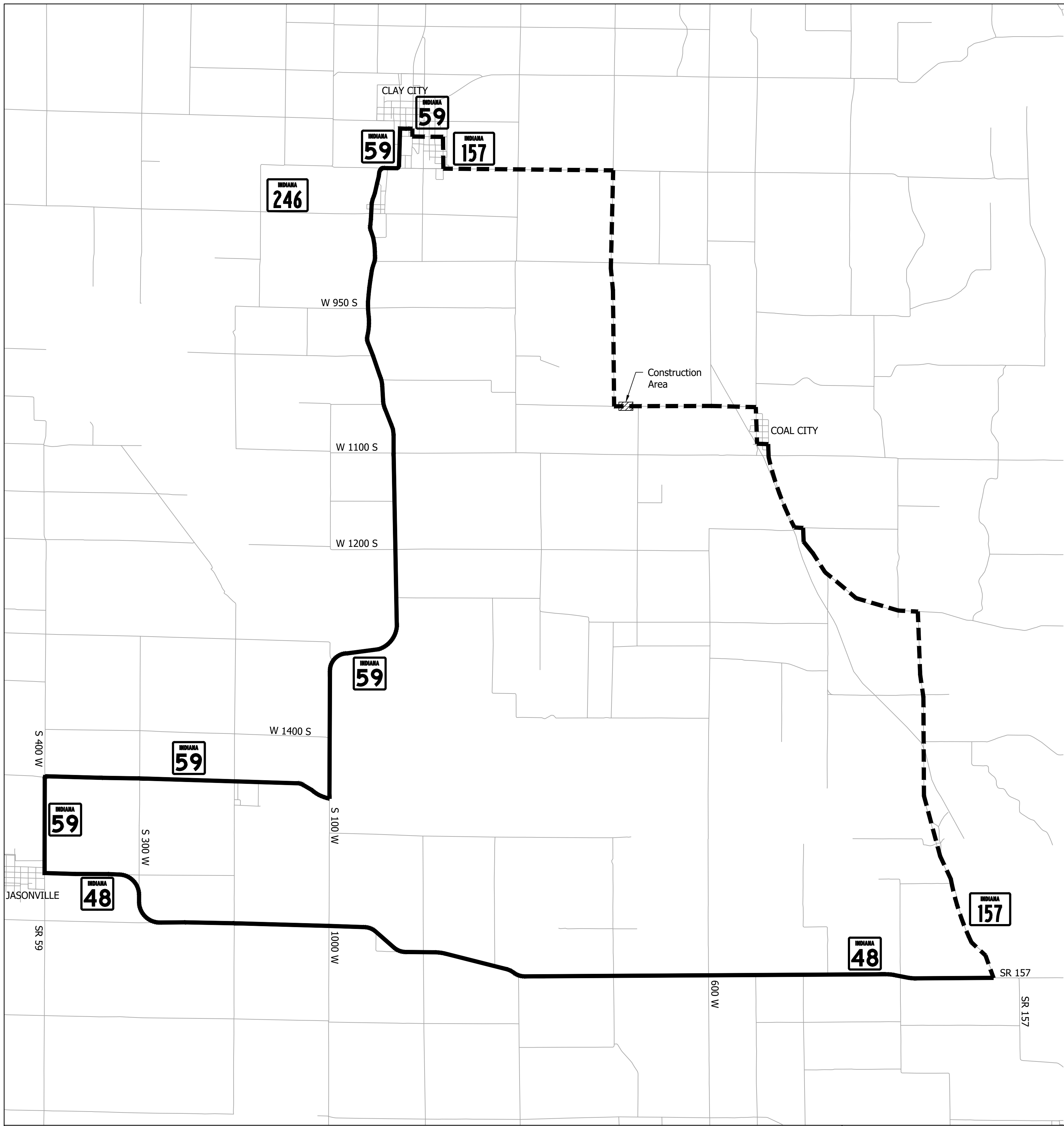
INDIANA DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	N/A
VERTICAL SCALE	DESIGNATION
N/A	1800147
SURVEY BOOK	SHEET
ELECTRONIC	3 of 14
CONTRACT	PROJECT
R-40576	1800147



Last Update: May 14, 2020 - 1:52pm
 Drawing name: Q:\P-19\3853-OC - Small Str - SR 157 UNT White Oak Ck 1800147 (INDOT)\DWG\Sheets\3853-OC - Detour.dwg



LEGEND

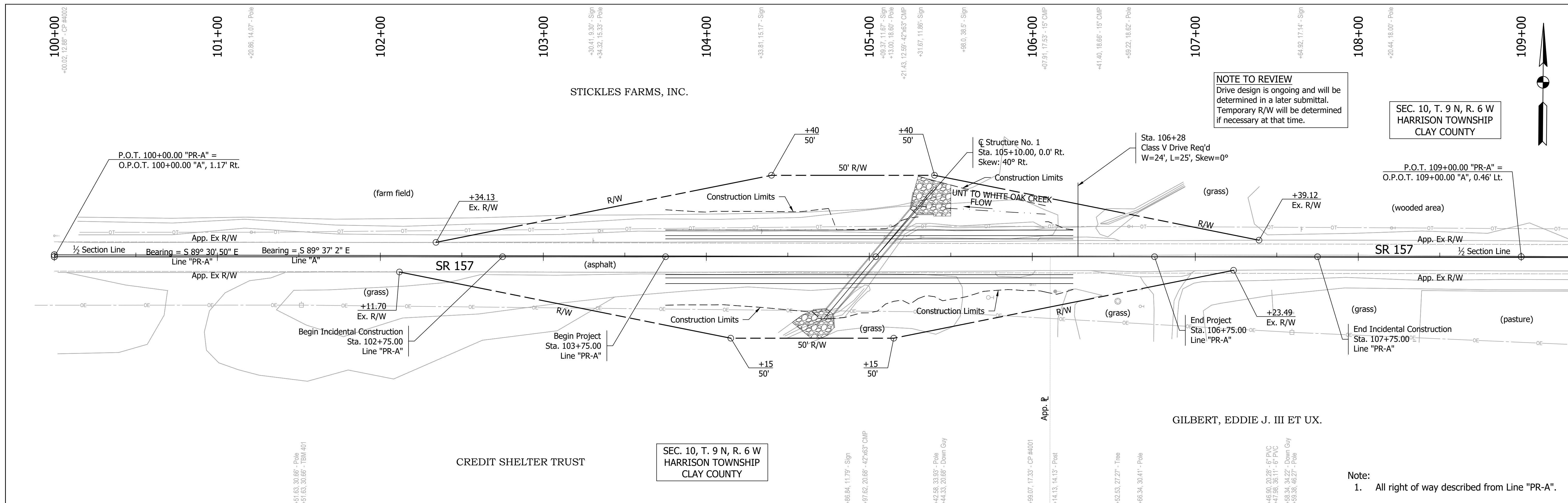
- Road to be closed during construction
- Proposed detour route
- Construction Area

NOT FOR CONSTRUCTION

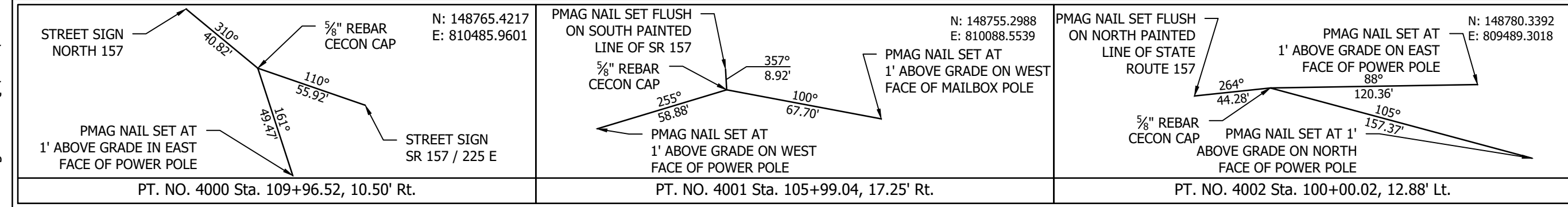
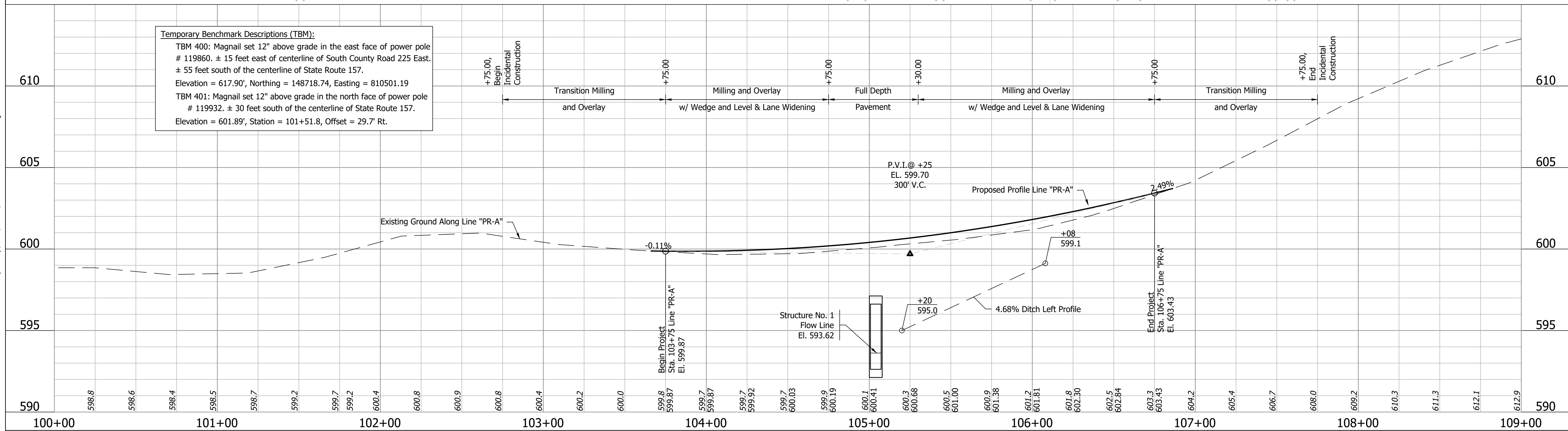
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE
DESIGNED: EAS	05/2020	DRAWN: EAS	05/2020	
CHECKED: DTQ	05/2020	CHECKED: NDB	05/2020	

INDIANA DEPARTMENT OF TRANSPORTATION	
DETOUR	

HORIZONTAL SCALE	BRIDGE FILE
NOT TO SCALE	N/A
VERTICAL SCALE	DESIGNATION
N/A	1800147
SURVEY BOOK	SHEET
ELECTRONIC	4 of 14
CONTRACT	PROJECT
R-40576	1800147



Note:
1. All right of way described from Line "PR-A".



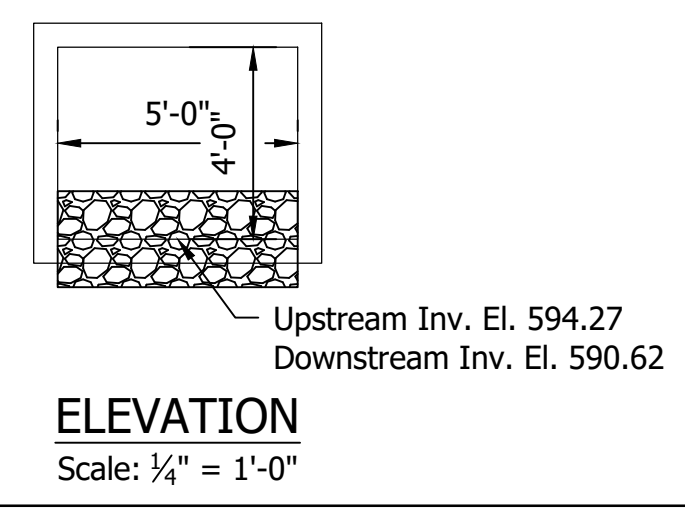
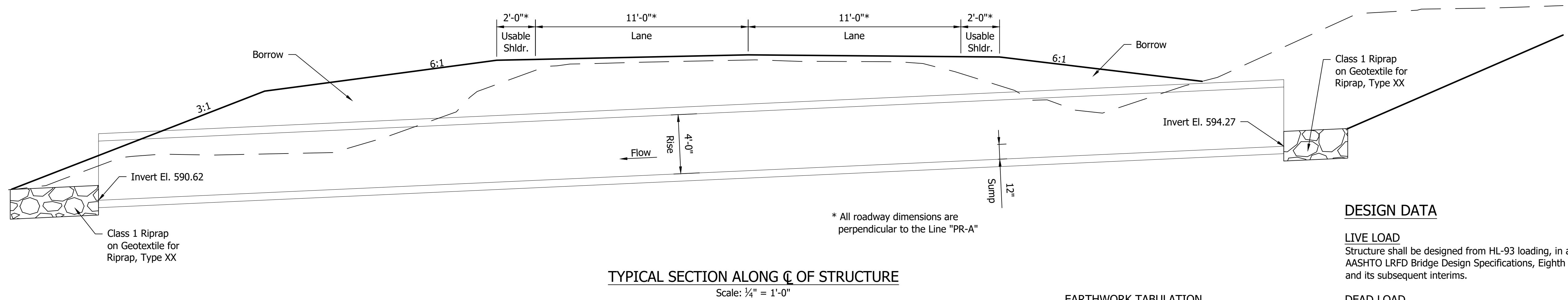
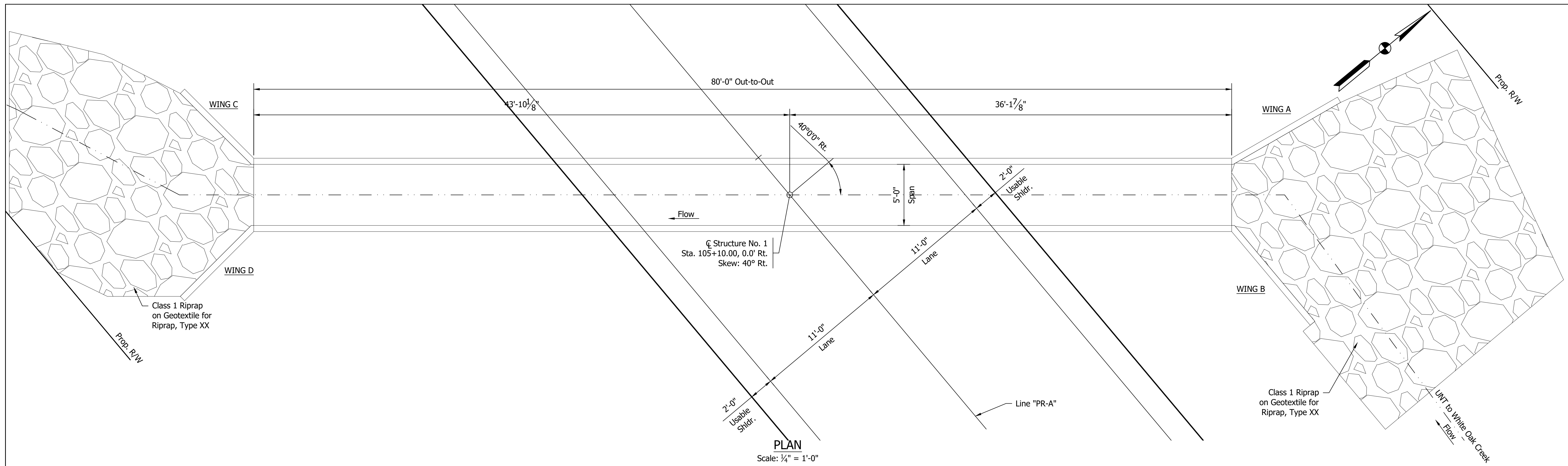
NOT FOR CONSTRUCTION

RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: EAS	05/2020	DRAWN: EAS
CHECKED: DTQ	05/2020	CHECKED: NDB
	05/2020	

INDIANA DEPARTMENT OF TRANSPORTATION

PLAN AND PROFILE

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE N/A
VERTICAL SCALE 1" = 3'	DESIGNATION 1800147
SURVEY BOOK ELECTRONIC	SHEET 5 of 14
CONTRACT R-40576	PROJECT 1800147



NOTE TO REVIEW
 Coordination with geotechnical is ongoing and the geotextile type will be determined in a later submittal.

EARTHWORK TABULATION

Fill +20%	XXX	cys
Common Excavation (80%)	XXX	cys
Usable Waterway Excavation (70%)	XXX	cys
Surplus Foundation Excavation	XXX	cys
Waste (Borrow)	XXX	cys
Total Waterway Excavation	XXX	cys
Excavation Unclassified	XXX	cys
Benching (Estimated)	XXX	cys
No direct payment for Benchng. Benchng will not be paid for as Common Excavation.		

DESIGN DATA

LIVE LOAD
 Structure shall be designed from HL-93 loading, in accordance with AASHTO LRFD Bridge Design Specifications, Eighth Edition, 2017, and its subsequent interims.

DEAD LOAD
 Actual dead load plus 35 lb/ft² for future wearing surface.

WINGWALL SOIL PARAMETERS

Angle of friction between wingwall and foundation (δ)	= XX°
Angle of internal friction of the foundation soil (ϕ)	= XX°
Ultimate cohesion of foundation soil (c)	= X,XXX psf
Ultimate adhesion between foundation soil and concrete (Ca)	= XX psf

REINFORCED CONCRETE BOX CULVERT
 Span: 5'-0"
 Rise: 4'-0"
 Skew: 40°00'00" Left
 SR 157 over UNT to White Oak Creek,
 Clay County, Indiana

NOT FOR CONSTRUCTION	RECOMMENDED FOR APPROVAL	DESIGN ENGINEER		DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
	DESIGNED: EAS	05/2020	DRAWN: EAS	05/2020		AS NOTED	N/A
	CHECKED: DTQ	05/2020	CHECKED: NDB	05/2020		VERTICAL SCALE	DESIGNATION
						AS NOTED	1800147
GENERAL PLAN					SURVEY BOOK	SHEET	
					ELECTRONIC	6 of 14	
					CONTRACT	PROJECT	
					R-40576	1800147	

PAVEMENT QUANTITIES AND APPROACH TABLE

Table with columns: LOCATION, DESCRIPTION (APPROACH TYPE OR CLASS), WIDTH, LENGTH, RADII, DISTANCE BEYOND R/W LINE, SURFACE BEYOND R/W LINE, GRADE, EXCAVATION, CLEAR ZONE AT DRIVE, HMA FOR APPROACHES, HMA FOR ROADS, SEAL COAT TYPE, ASPHALT MATERIAL FOR, COMPACTED AGGREGATE FOR BASE NO. 53, COMPACTED AGGREGATE FOR SURFACE NO.73, REMARKS.

STRUCTURE DATA

Table with columns: STRUCTURE NUMBER, LOCATION (STATION, LEFT, CROSS, RIGHT), SIZE, PIPE TYPE, MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE, LENGTH, SKEW, FLOW LINE (COVER, UP STREAM, DOWN STREAM), SERVICE LIFE, SITE DESIGNATION, pH, BACKFILL METHOD, STRUCTURE BACKFILL, REVEMENT RIPRAP, CONCRETE CLASS A FOR STR., VIDEO INSPECTION, PIPE END SECTION, GRATED BOX END SECTION, SAFETY METAL END SECTION, REMARKS.

PAVEMENT MARKINGS SUMMARY OF QUANTITIES

Table with columns: LOCATION, LINE PAINT (SOLID WHITE, SOLID YELLOW), LINE EPOXY (SOLID WHITE, SOLID YELLOW), LINE EPOXY (BROKEN WHITE, BROKEN YELLOW, BROKEN WHITE, BROKEN YELLOW), TRANSVERSE MARKINGS THERMOPLASTIC STOP LINE (SOLID WHITE, SOLID WHITE), TRANSVERSE MARKINGS CROSSHATCH LINE (SOLID YELLOW, SOLID YELLOW), TRANSVERSE MARKINGS CROSSWALK LINE (SOLID WHITE, SOLID WHITE), PAVEMENT MESSAGE THERMOPLASTIC LANE INDICATION ARROW, PAVEMENT MESSAGE THERMOPLASTIC WORD "ONLY", SNOWPLOWABLE RAISED PAVEMENT MARKERS.

INFRASTRUCTURE ENGINEERING INCORPORATED 201 South Capitol Avenue, Suite 490 Indianapolis, IN 46225 P: 317.243.9800 F: 317.243.9100 www.infrastructure-eng.com



Last Update: May 15, 2020 - 7:12am Drawing name: Q:\P-19\3853-OC - Small Str - SR 157 UNT White Oak Ck 1800147 (INDOT)\DWG\Sheets\3853-OC - Tables.dwg

NOT FOR CONSTRUCTION

Table with columns: RECOMMENDED FOR APPROVAL, DESIGN ENGINEER, DATE, DESIGNED: EAS 05/2020, DRAWN: EAS 05/2020, CHECKED: DTQ 05/2020, CHECKED: NDB 05/2020.

INDIANA DEPARTMENT OF TRANSPORTATION

ROADWAY TABLES

Table with columns: HORIZONTAL SCALE (AS NOTED), VERTICAL SCALE (N/A), SURVEY BOOK (ELECTRONIC), CONTRACT (R-40576), BRIDGE FILE (N/A), DESIGNATION (1800147), SHEET (7 of 14), PROJECT (1800147).