

LOCATION MAP

PORTION TO BE IMPROVED \_\_\_\_\_ STATE AND FEDERAL ROUTES \_\_\_\_ OTHER ROADS \_\_\_\_\_

# DESIGN DESIGNATION

CURRENT A.D.T. (2019)	454
DESIGN YEAR A.D.T. (2040)	844
DESIGN HOURLY VOLUME (2040)	N/A
DIRECTIONAL DISTRIBUTION	50%
TRUCKS (24 HOUR B&C)	1%
DESIGN SPEED	55 MPH
LEGAL SPEED	55 MPH
DESIGN FUNCTIONAL CLASSIFICATION	LOCAL RURAL



SCOTT C. COLEMAN, P.E., P.S. COUNTY ENGINEER

BRIDGE 58-1.61 REPLACEMENT

BLOOMFIELD TOWNSHIP 2020

## INDEX OF SHEETS

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#### PROJECT DESCRIPTION

THE REPLACEMENT OF A SINGLE SPAN STEEL BRIDGE WITH A CORRUGATED STEEL DECK WITH PRESTRESSED CONCRETE COMPOSITE BOX BEAMS ON REINFORCED CONCRETE CAPPED PILE ABUTMENTS.

PROJECT NO.-FEDERAL

FEDERAL I

9

58

RIDGE

 $\mathbf{m}$ 

MINOR ROADWAY WORK ON C.R. 58.

CONTRACTED WORK WILL INCLUDE THE DESIGN, MANUFACTURE, AND INSTALLATION OF THE BRIDGE SUPERSTRUCTURE AND FURNISHING OF RELATED SUPERSTRUCTURE MATERIAL.

THE SUBSTRUCTURE, WEARING SURFACE, AND ALL REMAINING SITE WORK WILL BE BY COUNTY FORCES.

#### 2019 SPECIFICATIONS

EXCEPT WHERE OTHERWISE NOTED, THE CONSTRUCTION AND MATERIAL SPECIFICATIONS OF THE STATE OF OHIO, DATED JANUARY 1, 2019, INCLUDING CHANGES AND SUPPLEMENTAL SPECIFICATIONS LISTED HEREON, SHALL GOVERN THIS IMPROVEMENT.

## DOMESTIC STEEL

DOMESTIC STEEL USE REQUIREMENTS AS SPECIFIED IN SECTION 153.011 OF THE OHIO REVISED CODE APPLY TO THIS PROJECT. COPIES OF SECTION 153.011 OF THE OHIO REVISED CODE CAN BE OBTAINED FROM ANY OF THE OFFICES OF THE DEPARTMENT OF ADMINISTRATIVE SERVICES.

### **APPROVALS**

DATE

WE, THE COMMISSIONERS OF LOGAN COUNTY, OHIO, HEREBY APPROVE THESE PLANS AND DECLARE THAT THE NECESSARY RIGHT-OF-WAY IS AVAILABLE FOR THIS IMPROVEMENT.

BOARD OF LOGAN COUNTY, OHIO,

I HEREBY APPROVE THIS PLAN AND DECLARE THAT THE MAKING OF THIS IMPROVEMENT WILL REQUIRE THE CLOSING OF THE HIGHWAY TO THROUGH TRAFFIC, AND THAT PROVISIONS FOR THE MAINTENANCE AND SAFETY OF TRAFFIC WILL BE AS SET FORTH ON THESE PLANS AND ESTIMATES.

COMMISSIONERS

DATE LOGAN COUNTY, OHIO, ENGINEER

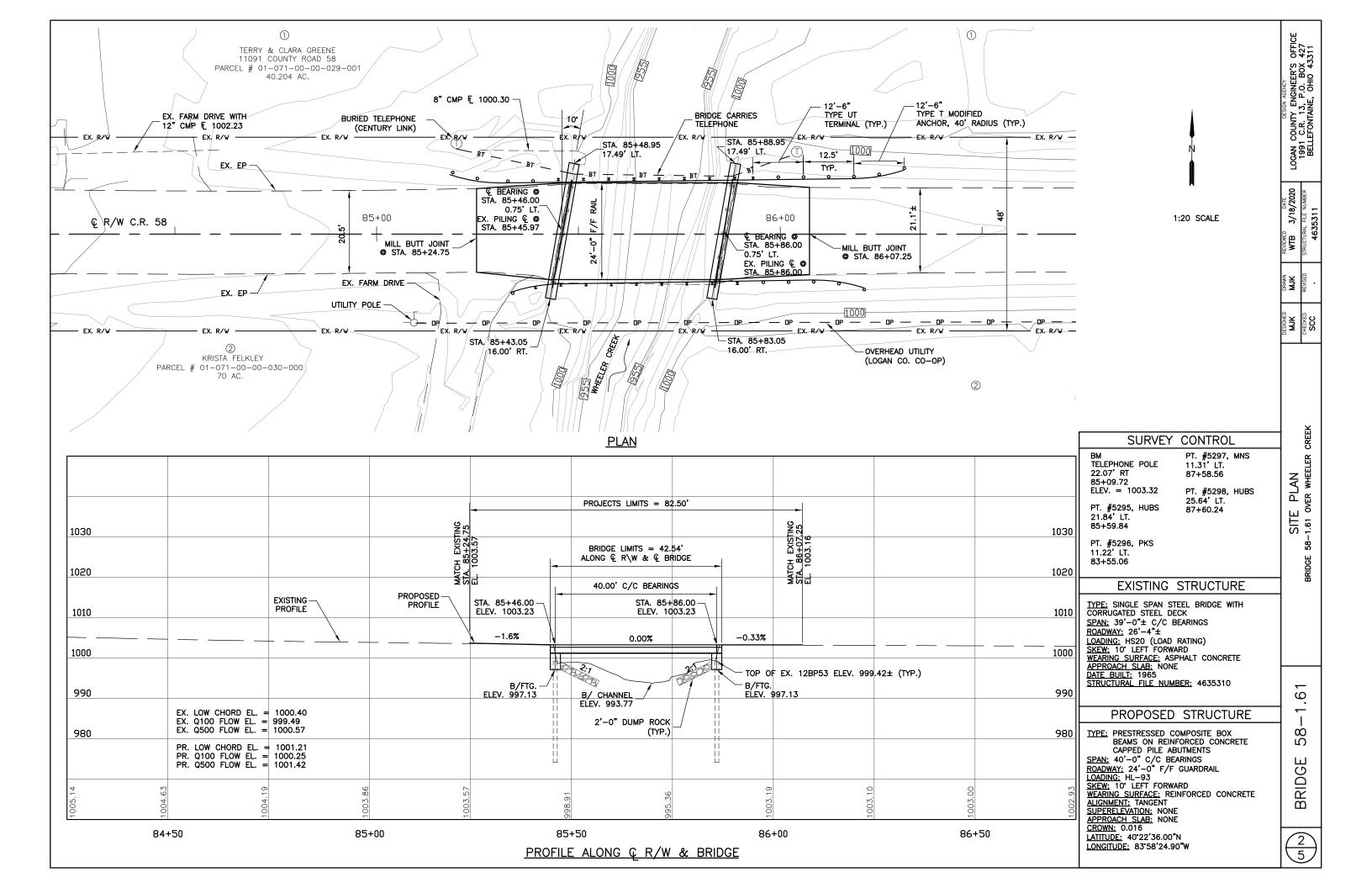
2 WORKING DAYS
BEFORE YOU DIG
CALL TOLL FREE 800-362-2764
GRIGHT OF THE PROTECTION SERVICE

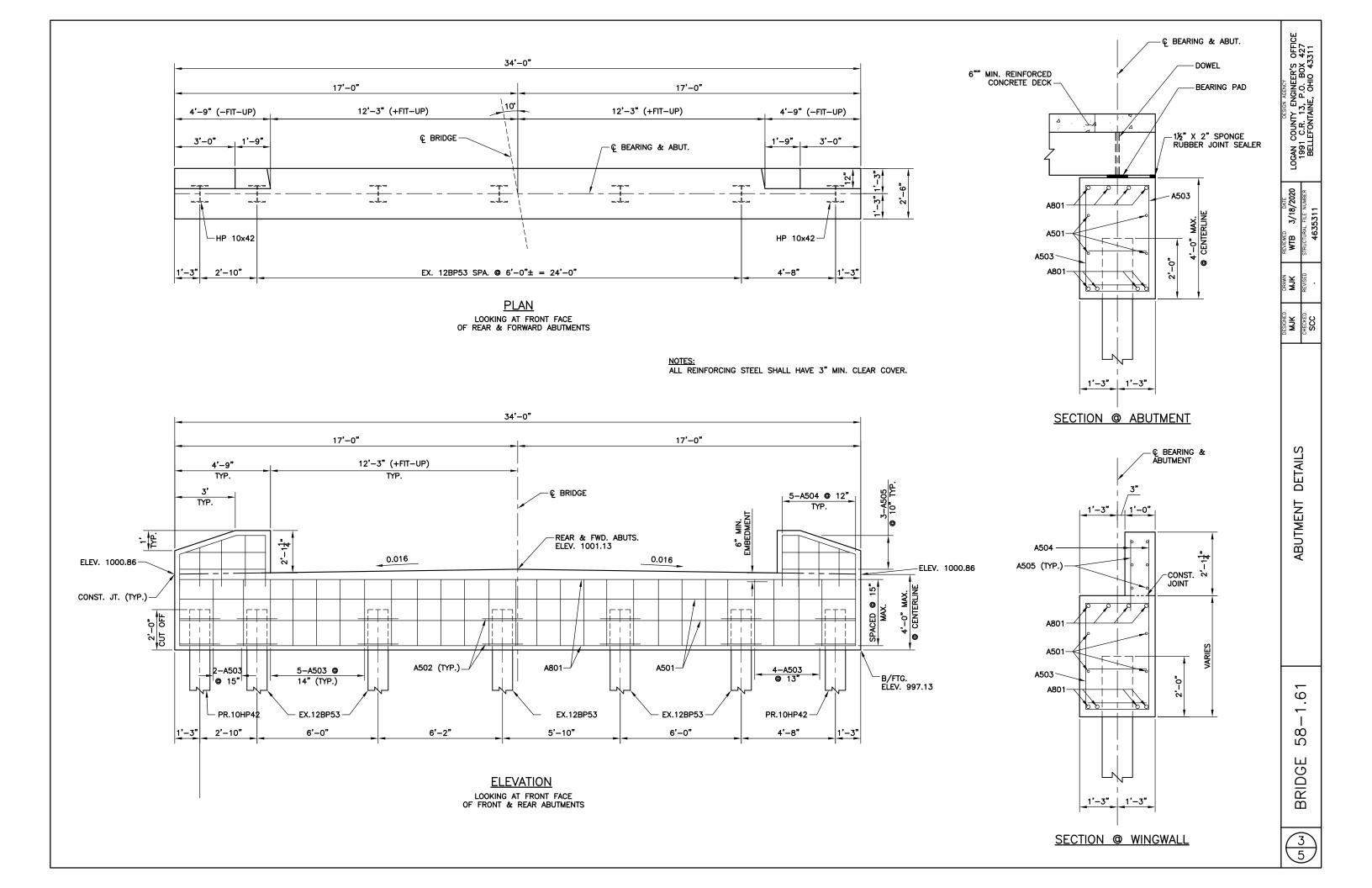
PLANS PREPARED BY: LOGAN COUNTY ENGINEER'S OFFICE 1991 C.R. 13, P.O. BOX 427 BELLEFONTAINE, OHIO 43311

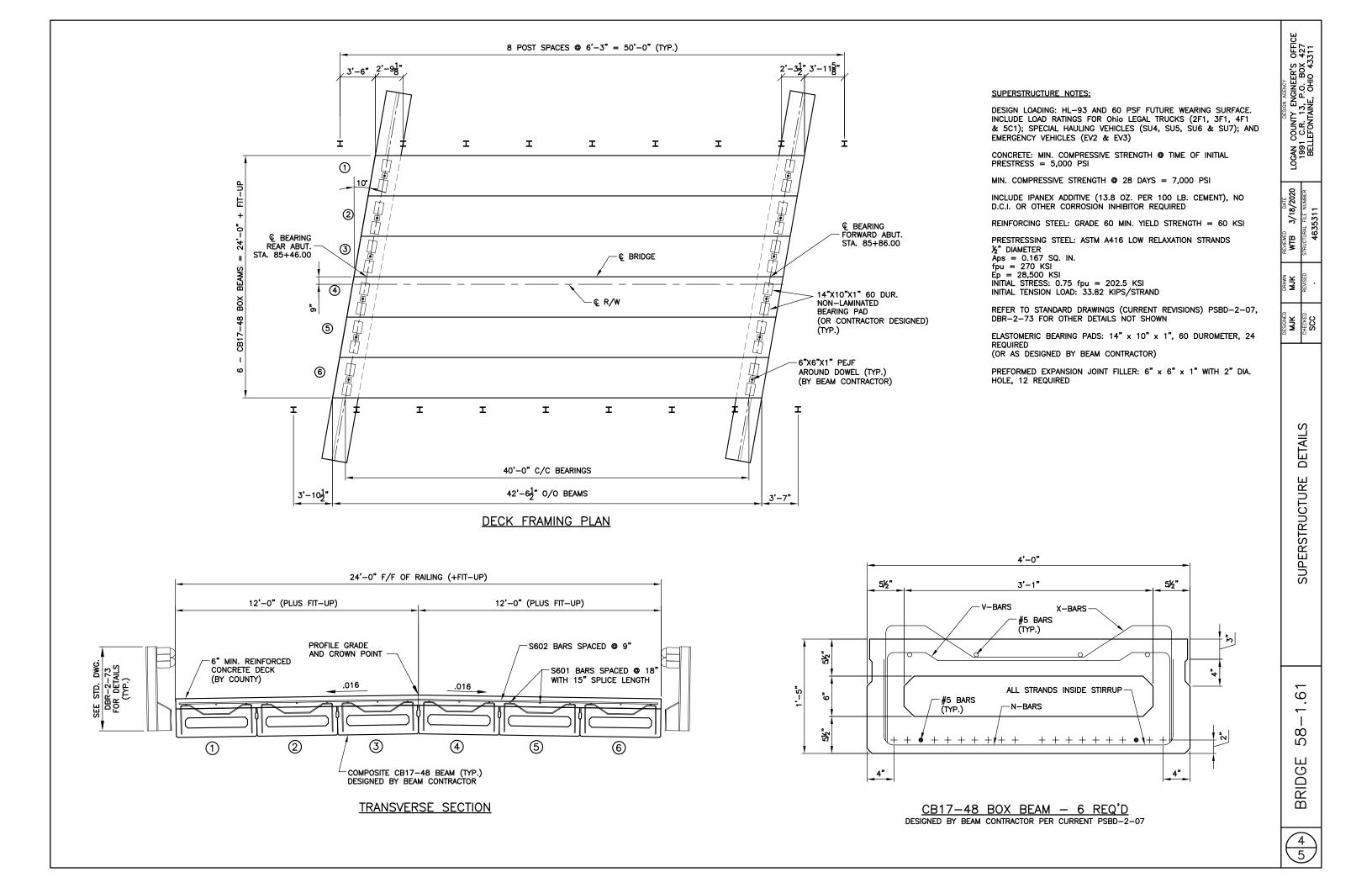
SIGNED:			
DATE:			

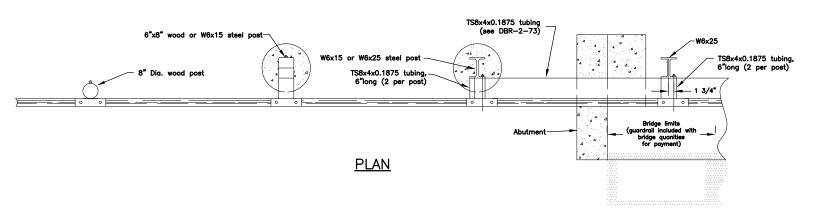
ENGINEER'S SEAL

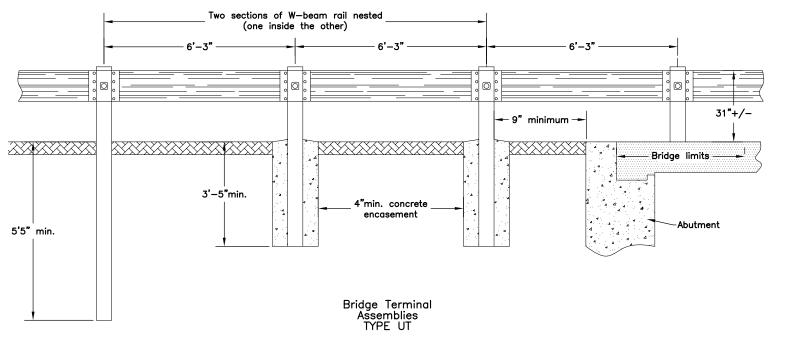
STANDARD CONSTRUCTION DRAWINGS			SUPPLEMENTAL SPECIFICATIONS	
DBR-2-73	7-19-02			
PSBD-2-07	7-20-18			
DS-1-92	7-18-03			









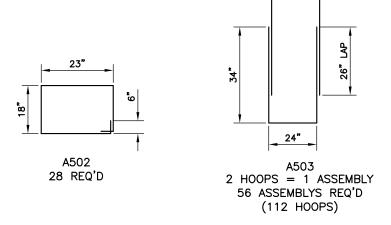


# **ELEVATION**

	REINFORCING STEEL LIST					
MARK	NUMBER PER ABUT/DECK	LENGTH EACH PIECE	LENGTH PER ABUT/DECK	TOTAL LENGTH	WEIGHT PER FT.	TOTAL WEIGHT
	BENT STEEL					
A502	14	7'–10 <b>"</b>	110	220	1.043	230
A503	28	15'-4"	430	860	1.043	897
	STRAIGHT STEEL					
A501	4	33'-6"	134	268	1.043	280
A504	20	2'-6"	50	100	1.043	105
A505	12	4'-0"	48	96	1.043	101
A801	8	33'-6"	268	536	2.67	1432
S601*	34	22'-3"	757	757	1.502	1137
S602*	57	23'-10"	1359	1359	1.502	2041
TOTAL LEN	TOTAL LENGTHS: #5 BENT: 1127 #5 SRT: 464 #8 SRT: 536 #6 SRT GALV: 2116					

<sup>\* =</sup> S601 AND S602 BARS SHALL BE HOT-DIPPED GALVANIZED AND SHALL USE GALVANIZED TIES.

A501, A801, S601 AND S602 TO BE PRE-CUT AND LABELED.



BAR BENDING DIAGRAMS

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