INDEX OF SHEETS STATE OF ILLINOIS 04-25-2025 LETTING ITEM 161 SHEET NO. DESCRIPTION **COVER SHEET** GENERAL NOTES, TYPICAL SECTIONS, 2 **DETAILS** SUMMARY OF QUANTITIES, 3 LOCAL BRIDGE FORMULA PROGRAM SCHEDULES OF QUANTITIES TRAFFIC CONTROL PLAN PIKE COUNTY 5 **EROSION CONTROL PLAN** PLAN AND PROFILE STRUCTURE PLANS SECTION 22-16119-00-BR 17-19 **CROSS SECTIONS** S.B.I 36 (TR 424B) OVER

PROPOSED STRUCTURE SN 075-3336

ON CONCRETE SPILL-THRU ABUTMENTS,

50'-0" BK TO BK, 28'-0" O TO O DECK,

BEGINS

10° SKEW RT. AHEAD.

PLAN PROFILE HORIZ. SCALES-PROFILE VERT. CROSS SECTIONS HORIZ. CROSS SECTIONS VERT. 遇 LOCATION OF SECTION INDICATED THUS: -SINGLE SPAN 21" PPC DK BM SUPERSTRUCTURE SECTION 22-16119-00-BR **ENDS** STATION 25+00.00 **EXISTING STRUCTURE SN 075-0050** SINGLE SPAN CONCRETE THRU GIRDER. THE STRUCTURE SECTION 22-16119-00-BR IS 33'-0" BK TO BK OF ABUTMENTS, 23'-8" O TO O DECK, STATION 22+50.00 AND IS NOT SKEWED. (TO BE REMOVED) R. 3 W. 4th P.M.

UTILITY COMPANIES

ILLINOIS ELECTIVE COOP WINCHESTER, IL

METRO COMMUNICATION CO. SULLIVAN, IL

PIKE CO. WATER DISTRICT #1 PITTSFIELD, IL

J.U.L.LE.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811

HIGHWAY STANDARDS (INCLUDED IN PROPOSAL)

BLR 27-1 TRAFFIC BARRIER TERMINAL TYPE 5A

515001-04 NAME PLATE FOR BRIDGES

701901-10 TRAFFIC CONTROL DEVICES

280001-07 TEMPORARY EROSION CONTROL SYSTEMS

000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

725001-01 OBJECT AND TERMINAL MARKERS
BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR

CONSTRUCTION ON RURAL LOCAL HIGHWAYS

630301-09 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS

CONTRACT NO. 93829

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED

NEWBURG ROAD DISTRICT

BLUE CREEK

PROJECT NO. R32N(845)

JOB NUMBER C-96-002-24

LOCATION MAP



NET LENGTH OF PROJECT = 250.00 FEET = 0.047 MILES

DESIGN CLASSIFICATION: LOCAL ROAD (NON-URBAN)
DESIGN ADT = 25 (2024)
DESIGN SPEED = 30 MPH



ENGINEERS SEAL

2024 NEWBURG ROAD DISTRICT HIGHWAY COMMISSIONER APPROVED IKE COUNTY ENGINEER January 2024 DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS Released For Bid Based on Limited Review REGION FOUR ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

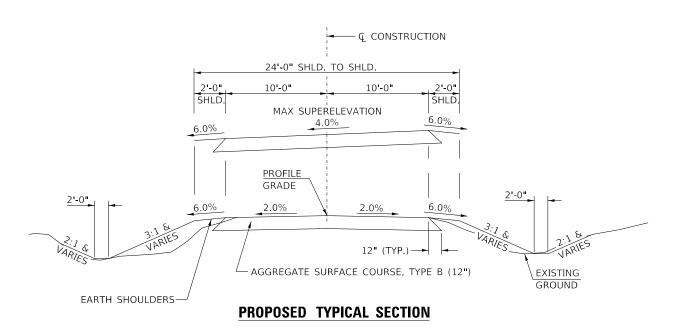
COUNTY

PIKE 19 1

SECTION

FED. ROAD DIST. NO. 7 ILLINOIS CONTRACT NO. 93829

TR 424B 22-16119-00-BR



STA. 22+50.00 TO STA. 24+17.00 STA. 24+67.00 TO STA. 25+00.00

EXCEPT TRANSITIONS

BRIDGE OMISSION STA. 24+17.00 TO STA. 24+67.00

GENERAL NOTES

THE REMOVAL OF EXISTING OIL AND CHIP SURFACE AND GRAVEL OR CRUSHED STONE BASE COURSE WHICH MAY BE NECESSARY FOR THE CONSTRUCTION OF THE PROJECT SHALL BE REMOVED AS EARTH EXCAVATION AND NO COMPENSATION WILL BE ALLOWED FOR ADDITIONAL LABOR OR EQUIPMENT REQUIRED.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

ALL EXISTING DRAINAGE STRUCTURES NOT BEING REMOVED BY THE CONTRACTOR THAT ARE DAMAGED DURING CONSTRUCTION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.

ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION.

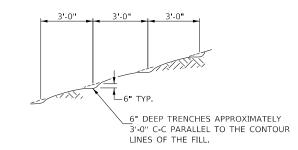
THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY AND THE ROAD DISTRICT, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

THE FINAL SURFACE OF ALL DISTURBED/EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE COHESIVE VEGETATION SUSTAINING SOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING VEGETATION SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. TOPSOIL MAY BE STRIPPED AND STOCKPILED FROM THE SITE OR HAULED IN FROM AN ALTERNATE LOCATION AS APPROVED BY THE ENGINEER.

ALL ELEVATIONS SHOWN REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.



NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER
THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED
AS SHOWN IN DETAIL, COST SHALL BE INCLUDED
WITH SEEDING, CLASS 2 (SPECIAL).

DETAIL OF CONTOUR PLOWING

USER NAME = JSavage	DESIGNED	-	LBK	REVISED	-	
	DRAWN	-	LBK	REVISED	-	
PLOT SCALE = \$SCALE\$	CHECKED	-	JPS/BAN	REVISED	-	
PLOT DATE = 12/19/2024	DATE	-	12/19/2024	REVISED	-	

PIKE COUNTY S.B.I 36 (TR 424B) OVER BLUE CREEK

*	SPECIALTY	ITEM
---	------------------	------

EARTHWORK SUMMARY										
STATION TO STATION	EARTH EXCAVATION	CHANNEL EXCAVATION	STRUCTURE EXCAVATION	FILL	WASTE (SHORTAGE)					
STATION TO STATION	20200100	20300100	50200100							
	CU YD									
RDWY 22+50.00 - 24+17.00	103			22	55					
RDWY 24+67.00 - 25+00.00	15			12	0					
CHANNEL		180								
STRUCTURE			65							
TOTAL	118	180	65	30	55					
USE	120	180	65	-	55					
				(0.050)	CLID TNIK ACE \					

(@ 25% SHRINKAGE)

	AGGREGA	ATE SURF	ACE COURSE	, TYPE B					
	40200800								
STATION T	O STATION	THICKNESS	WIDTH	LENGTH	TON				
22+50.00	23+00.00	1.00'	19.32' AVG.	50.00'	68				
23+00.00	24+17.00	1.00'	21.00'	117.00'	172				
24+67.00	25+00.00	1.00'	18.16'	33.00'	42				
TOTAL					282				

PER II	PERIMETER EROSION BARRIER									
	28000400									
STATION T	O STATION	SIDE	FOOT							
22+50	24+14	LEFT	180							
24+64	25+61	LEFT	115							
24+70	25+00	RIGHT	50							
TOTAL			345							

TEMPORARY DITCH CHECKS						
	28000305					
STATION	SIDE	FOOT				
22+88	RIGHT	12				
23+26	RIGHT	12				
23+63	RIGHT	12				
24+00	RIGHT	12				
24+38	RIGHT	12				
TOTAL		60				

TRAFFI		TERMINAL) TANGENT	TYPE 1
	6310	0167	
STATION T	O STATION	SIDE	EACH
24+91.03	25+41.03	LT	1
TOTAL			1

SCALE: NONE

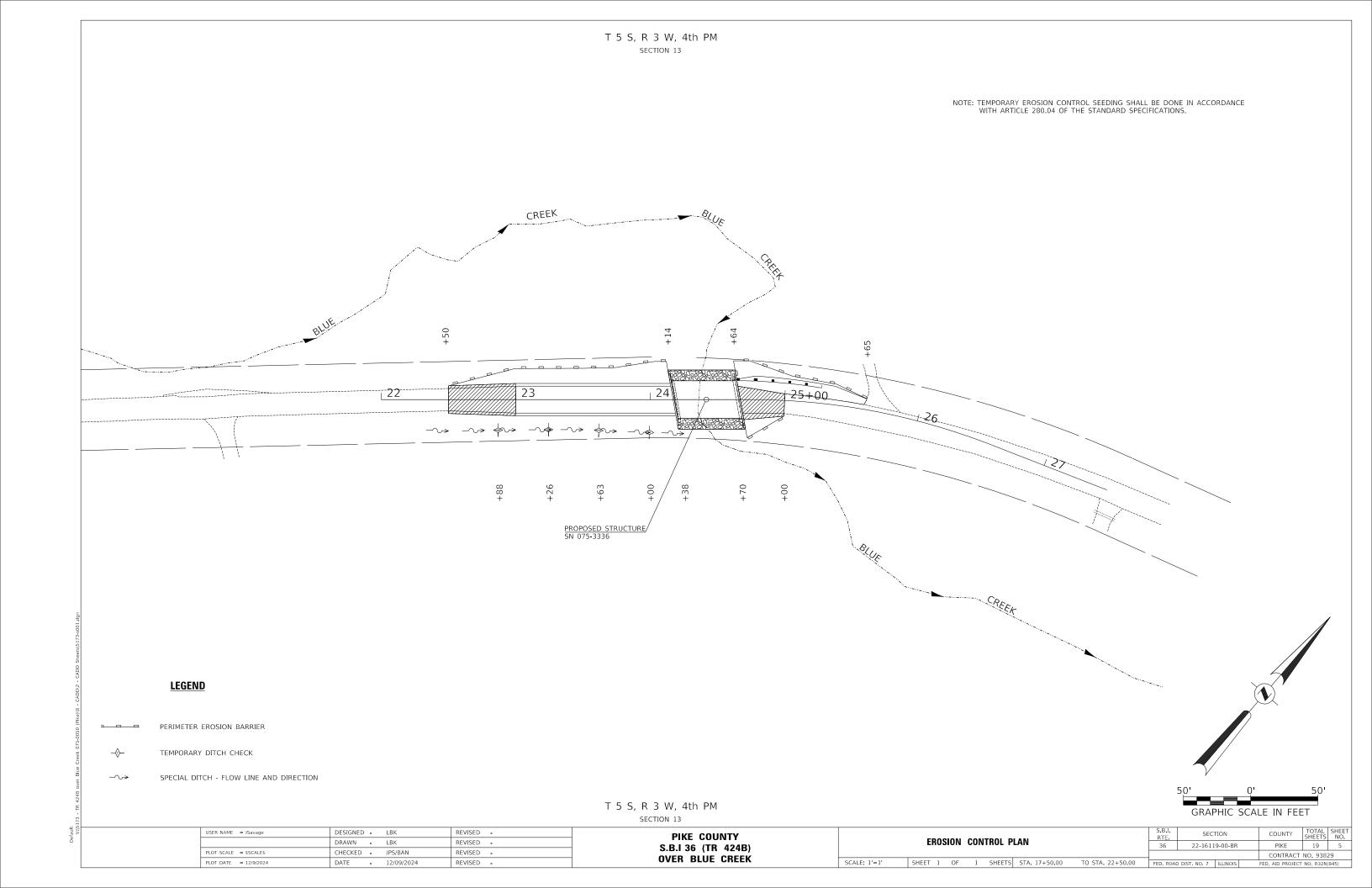
TRAFFIC	BARRIER	TERMINAL,	TYPE	5A
	631	00075		
STATION TO	NOITATE C	SIDE	EAC	Н
24+64.53	24+91.03	LT	1	
TOTAL	-		1	

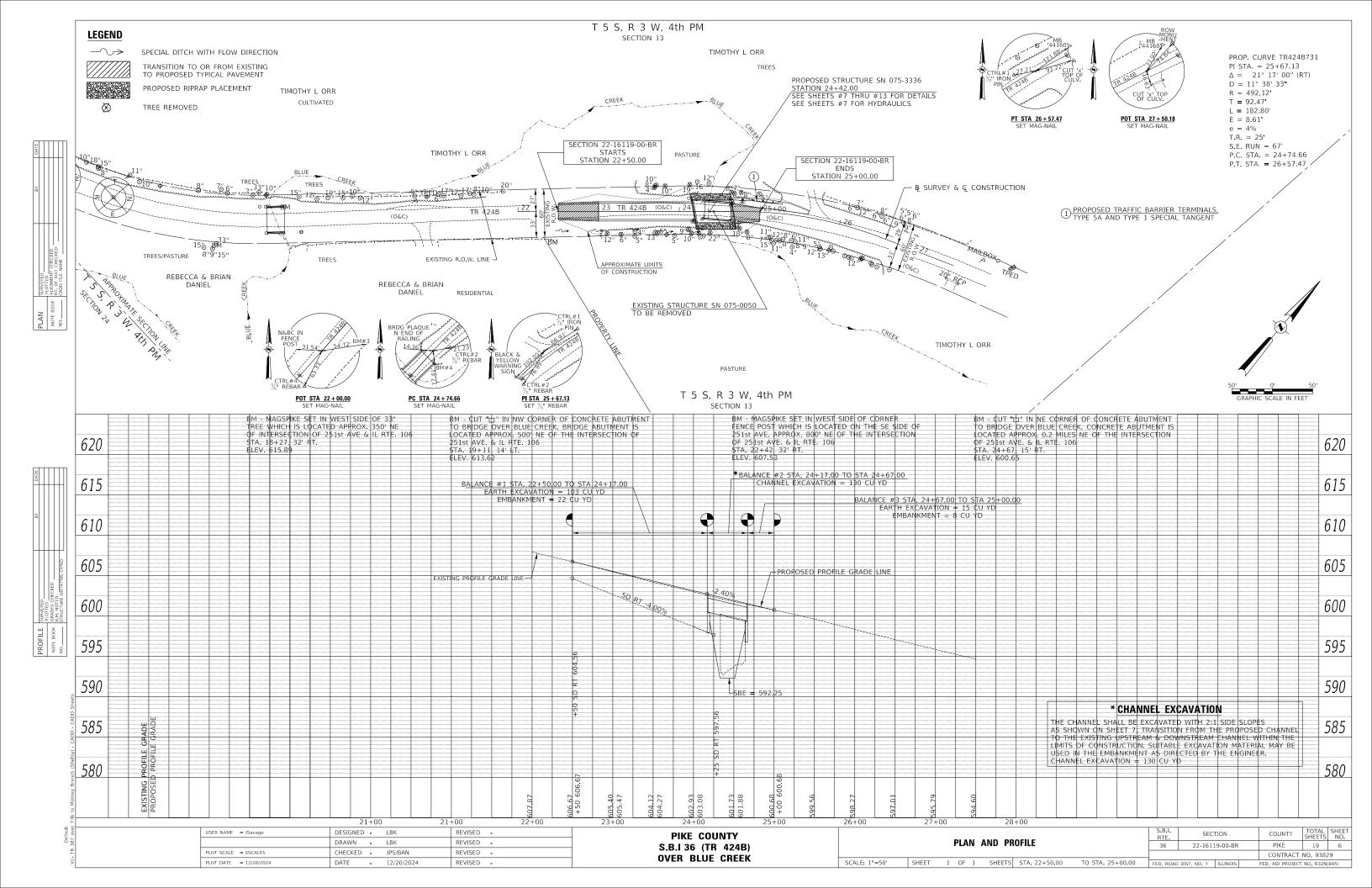
USER NAME = JSavage	DESIGNED	-	LBK	REVISED	-	
	DRAWN	-	LBK	REVISED	- <u> </u>	
PLOT SCALE = \$SCALE\$	CHECKED	-	JPS	REVISED	-	
PLOT DATE = 2/10/2025	DATE	-	02/10/2025	REVISED	-	

PIKE	COU	NTY
S.B.I 36	(TR	424B)
OVER B	LUE	CREEK

SUMMARY OF QUANTITIES						S.B.I. RTE.				COUNTY TOT		SHEET NO.		
		S	UMM	IARY	OF QUA	ANTITIES		36	22-1611	19-00-BR		PIKE	19	3
												CONTRACT	NO. 9382	9
	SHEET	1	OF	1	SHEETS	STA. 22+50.00	TO STA. 25+00.00	FED. ROAD	DIST. NO. 7	ILLINOIS	FE	D. AID PROJECT N	IO. R32N(84	5)







B.M.: Mag Spike in Westside of 33" Tree

Cut "□" in NW Corner of Concrete Abutment to Bridge Over Blue Creek. Sta. 18+27, 32' LT. STA 19+11, 14' LT. Elev. 615.89

Cut "□" in NE Corner of Concrete Abutment to Bridge Over Blue Creek. Sta. 24+67, 15 RT.

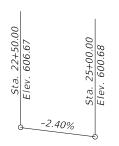
Elev. 600.65

Existing Structure:

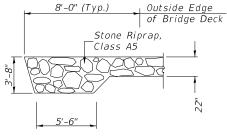
Single span thru girder on concrete abutments. The structure is 33'-0" back to back of abutments, 23'-8" out to out deck, and is not skewed. Str. No. 075-0050

Salvage: None

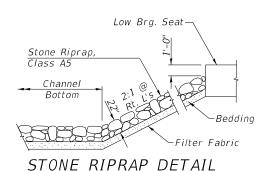
Road to be closed to traffic during construction.



PROFILE GRADE TR 424B



SECTION A-A



WATERWAY INFORMATION

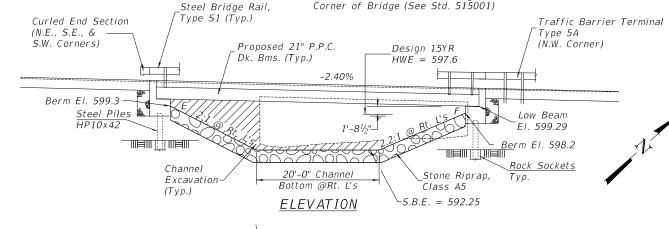
Drainage Area = 0.76 Sq. Mi. Low Grade Elev. = 600.66 @ Sta. 25+00.00										
Flood	Freq.		Opening						ater El.	
F1000	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	
Design	15	<i>573</i>	127	159	597.6	0.2	0.0	597.8	597.6	
Base	100	948	152	193	598.4	0.8	0.3	599.2	598.7	

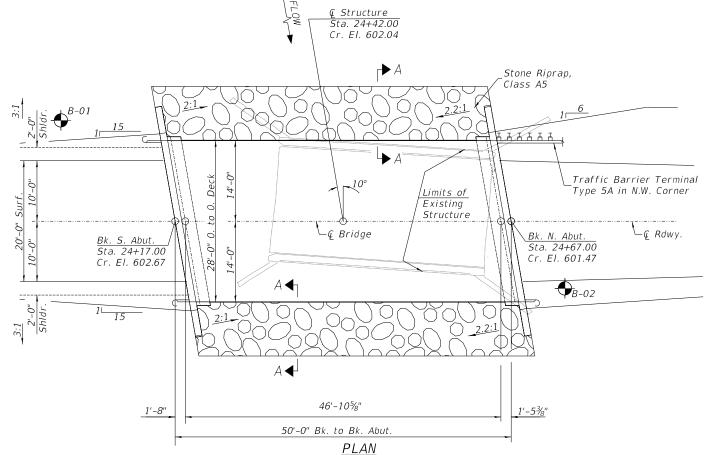
Mag Spike in West Side of Corner Fence Post Sta. 22+42, 32' Rt. Elev. 607.53

BLUE CREEK BUILT 202 BY PIKE COUNTY SEC. 22-16119-00-BR S.B.I 36 STA. 20+00.00 F.A. PROJ. NO. R32N(845) STR. NO. 075-3336 LOADING HL-93

NAME PLATE

Locate Name Plate at S.E. Wingwall Corner of Bridge (See Std. 515001)





DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

DESIGN STRESSES

(FIELD UNITS) f'c = 3,500 p.s.i. (Conc. Str.)

fy = 60,000 p.s.i. (Rein.)

(PRECAST PRESTRESSED UNITS) f'c = 6,000 p.s.i.f'ci = 5,000 p.s.i.f'c = 5,000 p.s.i. (Conc. Superstr.) $f's = 270,000 \text{ p.s.i.} (\frac{1}{2}" \text{ Strands})$

 $f'si = 201,960 \text{ p.s.i.} (\frac{1}{2}" \text{ Strands})$

SCALE: NONE

SHEET 1

LOADING HL-93

Allow 50#/sq. ft. for future wearing surface.

USER NAME = JSavage	DESIGNED -	LBK	REVISED -
	DRAWN -	LBK	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED -	JPS/BAN	REVISED -
PLOT DATE = 12/19/2024	DATE -	12/04/2024	REVISED -

PIKE COUNTY S.B.I 36 (TR 424B) **OVER BLUE CREEK**

GENERAL PLAN & ELEVATION OF 10 SHEETS

GENERAL NOTES

For Soil Boring logs, see Special Provisions.

A Corrosion Inhibitor shall be used in the concrete for Precast Prestressed Concrete Deck Beams according to Articles 1020.05(b)(10) and 1021.07 of the Standard Specifications.

Reinforcement Bars designated (E) shall be epoxy coated.

Layout of the slope protection system may be varied in the field to suit ground conditions as directed by the Engineer.

The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

TOTAL BILL OF MATERIAL

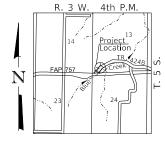
ITEM	UNIT	SUPER	SUB	TOTAL
Rock Excavation	CU YD		10	10
Channel Excavation	CU YD		180	180
Stone Riprap, Class A5	TON		275	275
Removal of Existing Structures	EACH			1
Structure Excavation	CU YD		65	65
Concrete Structures	CU YD		31.2	31.2
Concrete Superstructure	CU YD	0.5		0.5
Concrete Encasement	CU YD		9.3	9.3
Precast Prestressed Concrete Deck Beams (21" Depth)	SQ FT	1,344		1,344
Reinforcement Bars	POUND		3,100	3,100
Reinforcement Bars, Epoxy Coated	POUND	140		140
Steel Railing, Type S-1	FOOT	100		100
Furnishing Steel Piles HP10x42	FOOT		90	90
Drilling and Setting Piles (in Rock)	CU FT		157	157
Name Plates	EACH		1	1
Preformed Joint Strip Seal	FOOT		29	29
Terminal Marker - Direct Applied	EACH	3		3
1) See Special Provisions				

(1) See Special Provisions

I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style of structure and complies with requirements of the current

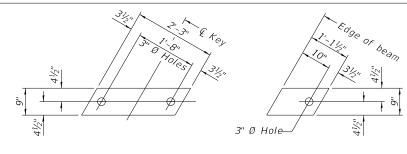
AASHTO Standard Specification for Highway Bridges.
This design complies with all requirements of the current
AASHTO Guide Specifications for Seismic Design of highway bridges.

Illinois Structural No. 6527 Expires 11/30/2026



LOCATION SKETCH

SECTION COUNTY 22-16119-00-BR PIKE 19 S.N. 075-3336 CONTRACT NO. 93829



1/2" <u>FABRIC BEARING PAD</u> (Interior) 1/2" <u>FABRIC BEARING PAD</u> (Exterior)

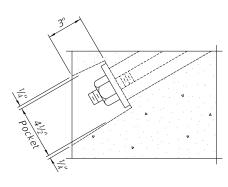
FIXED

Notes:

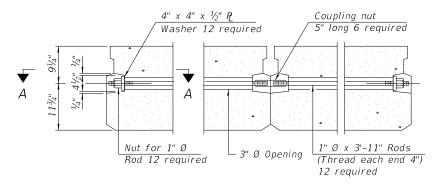
All bearing pads shall be $\frac{1}{2}$ " thick.

Omit holes when using expansion bearings.

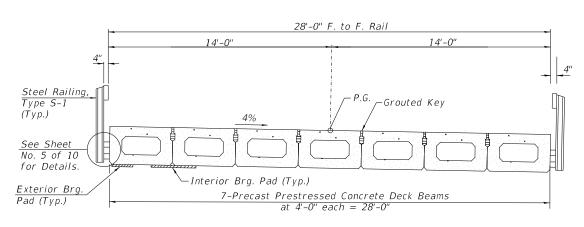
Expansion bearing pads shall be bonded to the substructure.



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



PROPOSED CROSS SECTION

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be $\frac{1}{2}$ " and the nominal cross-sectional area shall be 0.153 sq. in.

The 1" O rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Two $\frac{1}{8}$ " fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum $2\frac{1}{2}$ " Ø lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications,

shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

See side retainer detail on sheet 7 of 10.

See joint details on sheets 6 & 7 of 10.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY	
Precast Prestressed Conc. Deck Bms. (21" depth)	Sq. Ft.	1,344	

See Sheet #7 of 10 for Rail Post Spacing 48'-0" 24'-0" 24'-0" <u>(C</u> Lifting loops <u>(</u>C Transverse) ♀ 3" Ø Hole for transverse 2 each end tie assemblies tie diaphragm 0 ¾" Ø Drain holes bott. ⅓" Ø Vent holes top Exterior - Side Retainer ℚ 2" Ø Holes for dowel/ rods at fixed ends only 2'-83/4" 20'-1" 20'-1" 3'-01/4"

ote: Connect hea

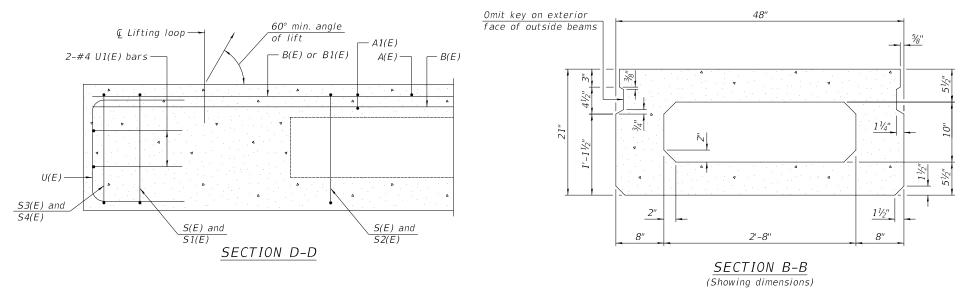
Connect beams in pairs with the transverse tie configuration shown.

PLAN VIEW

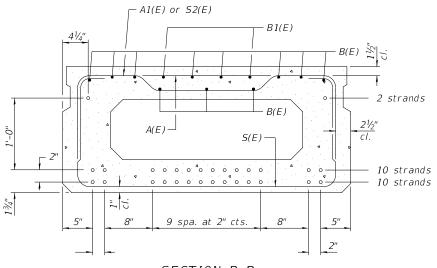
USER NAME = JSavage	DESIGNED	-	LBK	REVISED	-
	DRAWN	-	LBK	REVISED	-
PLOT SCALE = \$SCALE\$	CHECKED	-	JPS/BAN	REVISED	-
PLOT DATE = 12/16/2024	DATE	-	12/04/2024	REVISED	-

PIKE COUNTY S.B.I 36 (TR 424B) OVER BLUE CREEK

		S.B.I. SECTION		TOTAL SHEETS	SHEET NO.
SUPERSTRUCTURE	36	36 22-16119-00-BR		19	8
		S.N. 075-3336	CONTRACT	NO. 938	29
SCALE: NONE SHEET 2 OF 10 SHEETS	FED. RO	FED. ROAD DIST. NO. 7 ILLINOIS FED. AID PRO			45)



**Rail post anchor devices (Sheet 5 of 10) to be cast into exterior face of outside beams.



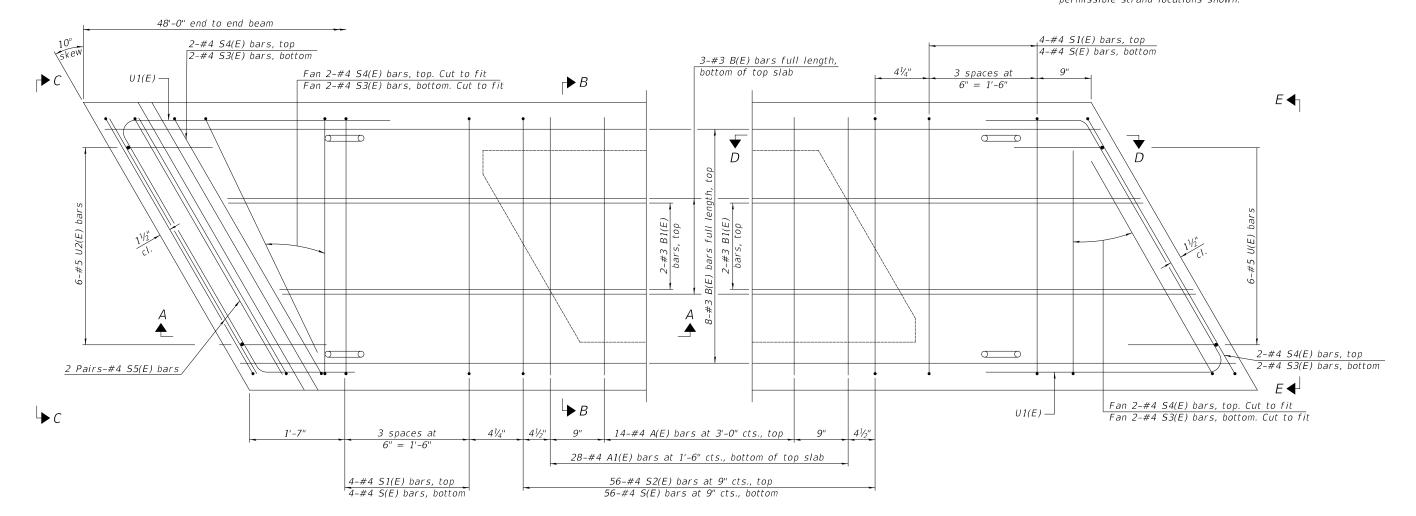
SECTION B-B

(Showing reinforcement and permissible strand locations)

 $22-\frac{1}{2}$ " Ø Strands Each Strand Stressed to 30,900 Lbs. 10-Strands $1\frac{3}{4}$ " up, 10-Strands $3\frac{3}{4}$ " up, 2-Strands $15\frac{3}{4}$ " up.

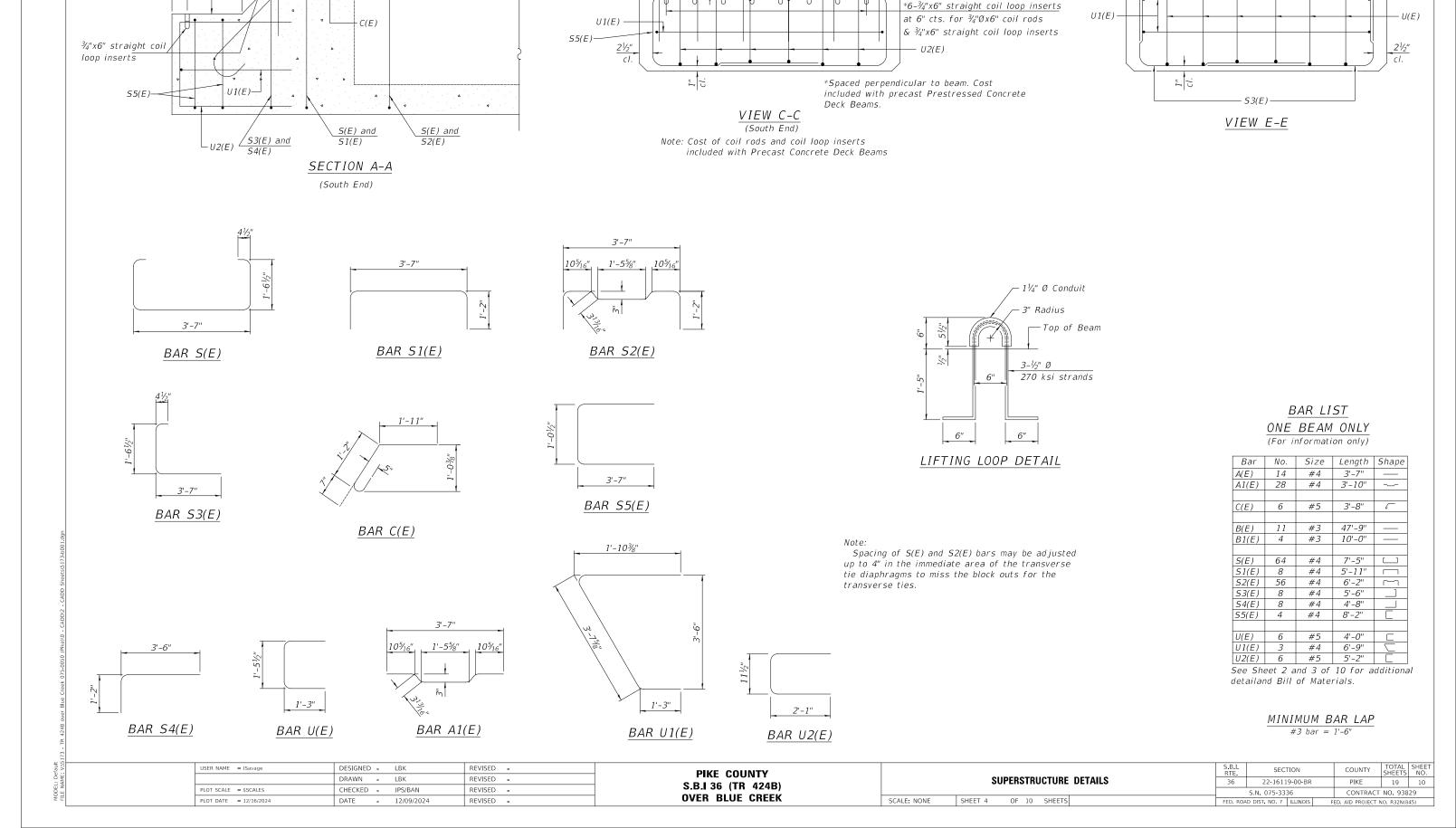
Note:

Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.



PLAN VIEW

USER NAME = JSavage	DESIGNED -	LBK	REVISED -	PIKE COUNTY		S.B.I. RTF	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	LBK	REVISED -		SUPERSTRUCTURE DETAILS	36	22-16119-00-BR	PIKE	19	9
PLOT SCALE = \$SCALE\$	CHECKED -	JPS/BAN	REVISED -	S.B.I 36 (TR 424B)		S	.N. 075-3336	CONTRAC	T NO. 938	29
PLOT DATE = 12/16/2024	DATE -	12/13/2024	REVISED -	OVER BLUE CREEK	SCALE: NONE SHEET 3 OF 10 SHEETS	FED. ROAD	DIST. NO. 7 ILLINOIS	FED. AID PROJECT	NO. R32N(8-	45)



*6-¾"x6" straight coil loop inserts

& ¾"x6" straight coil loop inserts

at 6" cts. for ¾"Øx6" coil rods

S4(E)-

B1(E)

- B(E)

- S4(E)

**Perpendicular to skew

← Lifting loop →

**10"

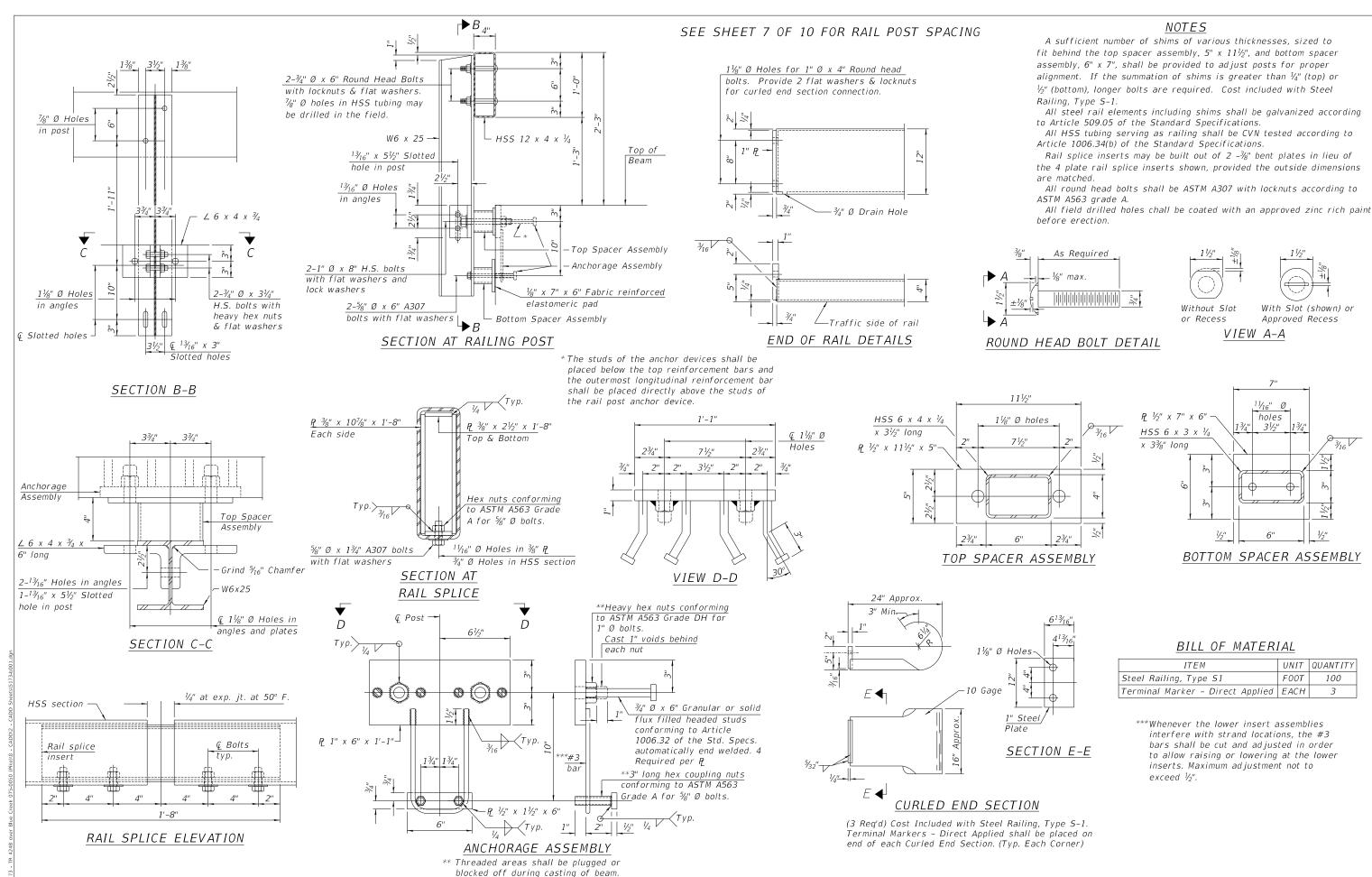
60° min. angle

- B(E)

⊢B1(E)

6-#6 C(E) bars at 8" cts.

-A1(E) A(E)---



DESIGNED - LBK REVISED -**PIKE COUNTY** DRAWN -LBK REVISED -STEEL RAILING, TYPE S1 S.B.I 36 (TR 424B) CHECKED -JPS/BAN REVISED -**OVER BLUE CREEK** 12/04/2024 SCALE: NONE SHEET 5 OF 10 SHEETS REVISED -DATE

SECTION

22-16119-00-BR

S.N. 075-3336

COUNTY

PIKE

19 11

CONTRACT NO. 93829

USER NAME = JSavage

PLOT DATE = 12/16/2024

SHOWING ROLLED RAIL JOINT

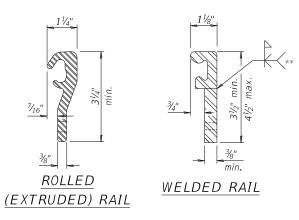
* %'' Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)

* %'' % threaded rods in %'' % holes at $\pm 4'$ -0" cts. for holding the proper joint opening based on

the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set. SHOWING WELDED RAIL JOINT

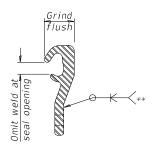
SECTION A-A

* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



LOCKING EDGE RAILS

** Back gouge not required if complete joint penetration is verified by mock-up.



LOCKING EDGE RAIL SPLICE

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar. Notes:

The strip seal shall be made continuous and shall have a minimum thickness of $\frac{1}{4}$ ". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the $4\frac{1}{2}$ " maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

The Maximum space between locking edge rail segments shall be $\frac{3}{16}$ " and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.

EXPANSION JOINT BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Preformed Joint Strip Seal	FOOT	29

PIKE COUNTY S.B.I 36 (TR 424B) OVER BLUE CREEK

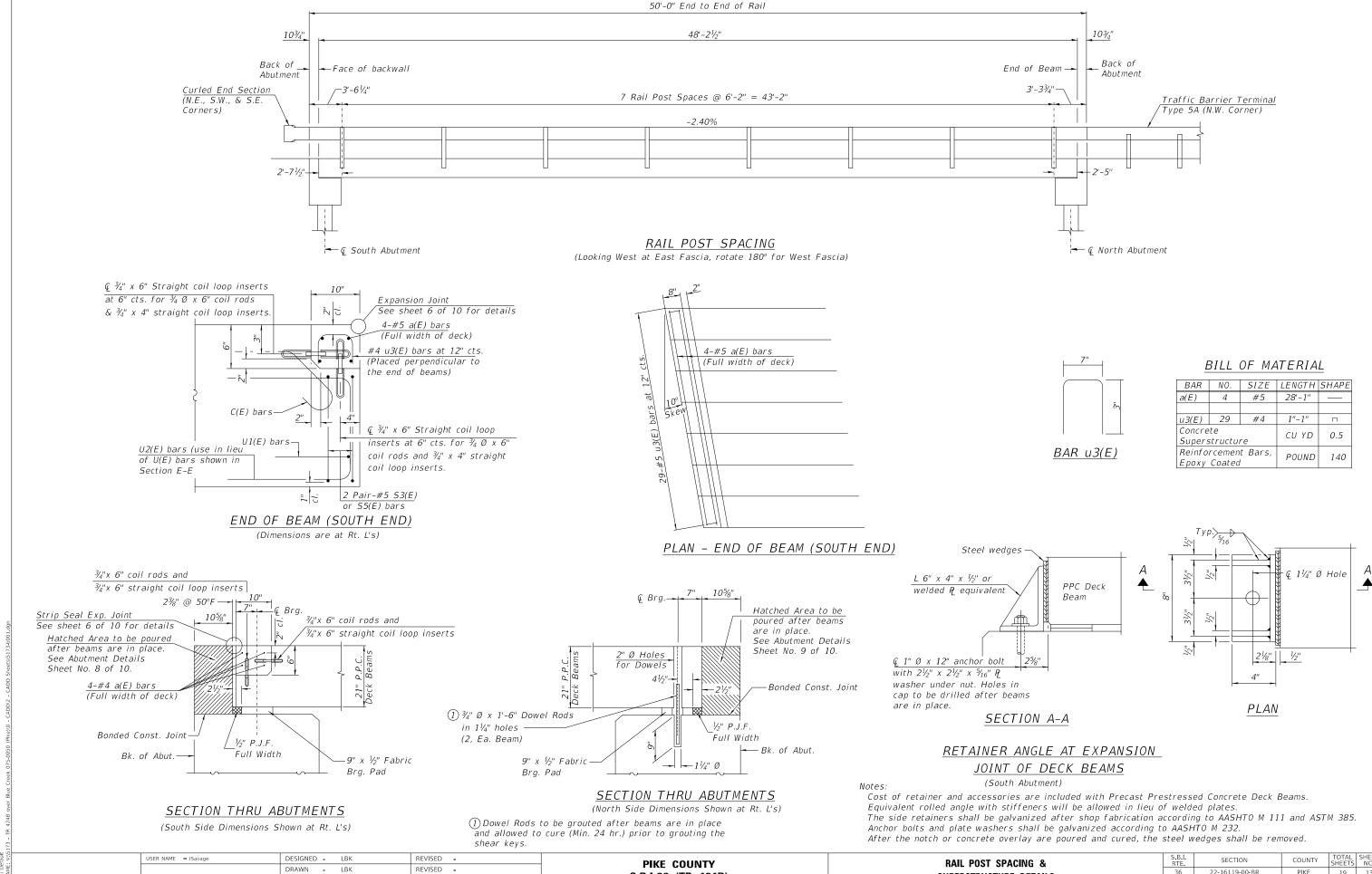
SCALE: NONE

 PERFORMED
 JOINT STRIP SEAL
 S.B.I. RTE. RTE. SECTION
 COUNTY SHEET SHEET SHOOT
 SHEET SHEET SHOOT

 36
 22-16119-00-BR
 PIKE
 19
 12

 5.N. 075-3336
 CONTRACT NO. 93829

 SHEET 6 OF 10 SHEETS



S.B.I 36 (TR 424B)

OVER BLUE CREEK

JPS/BAN

- 12/04/2024

DATE

PLOT DATE = 12/16/2024

REVISED -

REVISED -

22-16119-00-BR

S.N. 075-3336

SUPERSTRUCTURE DETAILS

OF 10 SHEETS

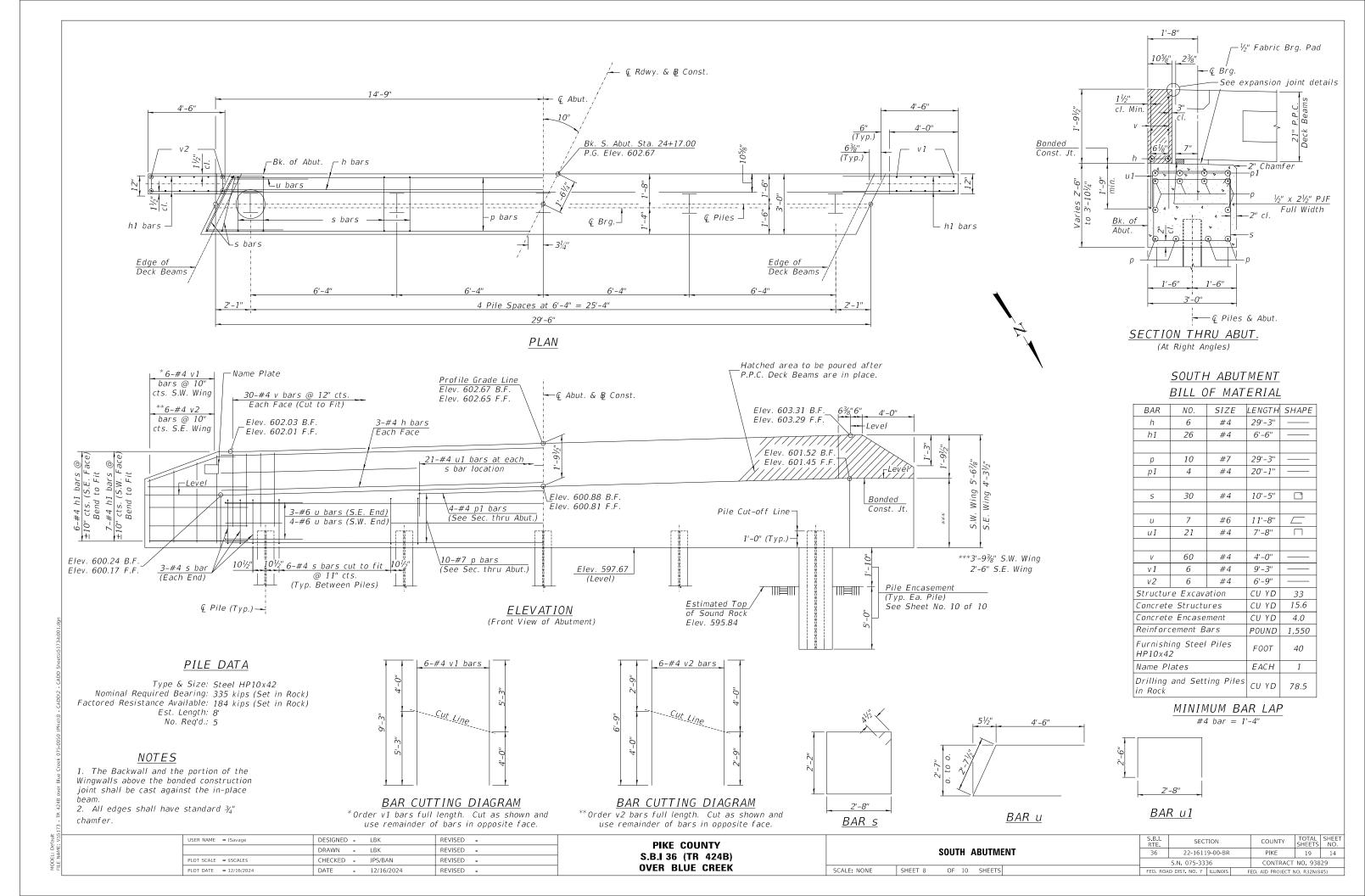
SCALE: NONE

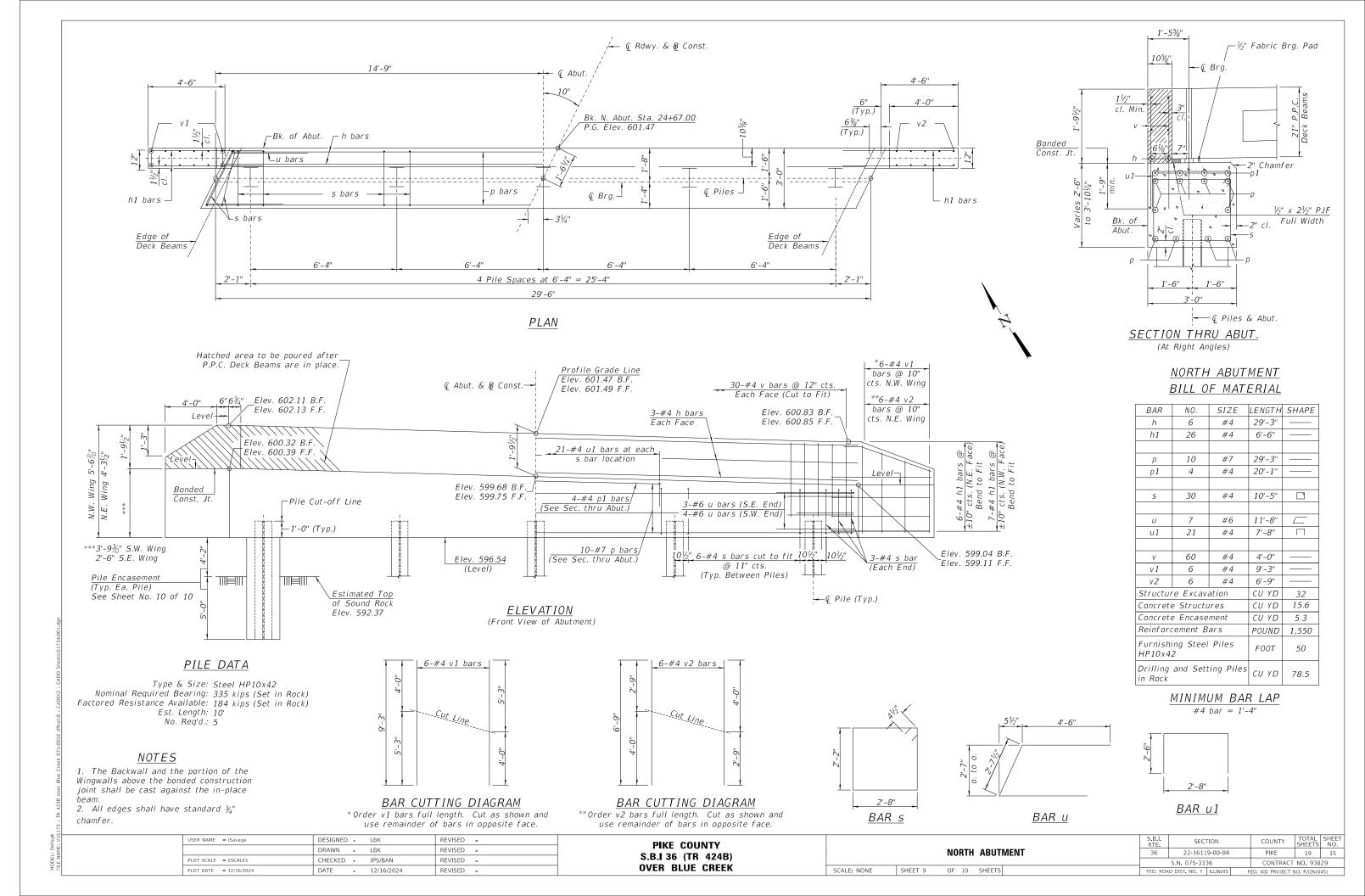
SHEET 7

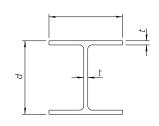
PIKE

19 13

CONTRACT NO. 93829

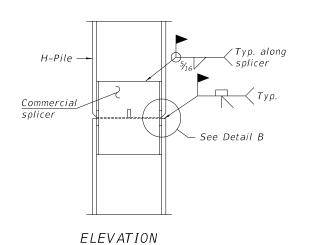






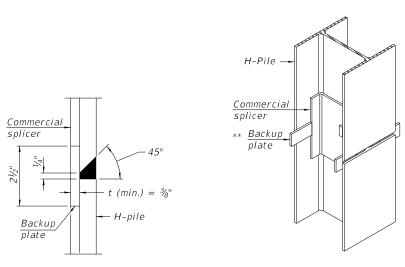
STEEL PILE TABLE

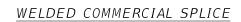
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	141/4"	14 ⁷ / ₈ "	¹³ / ₁₆ "	30"
x102	14"	143/4"	11/16"	30"
x89	137/8"	1 4 3/4"	5/8"	30"
x73	135⁄8"	145/8"	1/2"	30"
HP 12x84	121/4"	121/4"	¹ 1/ ₁₆ "	24"
x74	12½"	121/4"	5/8"	24"
x63	12"	12½"	1/2"	24"
x53	1 1 3/4"	12"	⁷ / ₁₆ "	24"
HP 10x57	10"	101/4"	%16"	24"
x42	9¾"	101/8"	⁷ / ₁₆ "	24"
HP 8x36	8"	8½"	⁷ /16"	18"



DETAIL "B"

* Typ. along four edges of flange P





ISOMETRIC VIEW

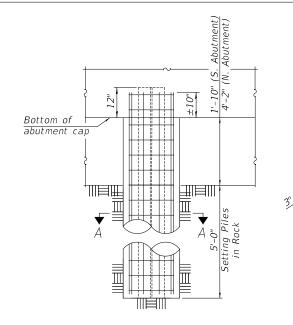
ISOMETRIC VIEW

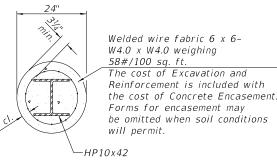
WELDED COMMERCIAL SPLICE ALTERNATE

H-Pile -

Commercial splicer

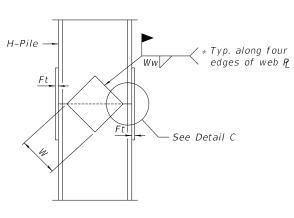
- $_*$ Interrupt welds $\frac{1}{4}$ " from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

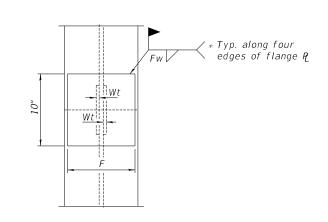




SECTION A-A

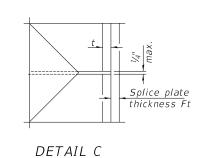
PILE ENCASEMENT





ELEVATION

END VIEW



Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	121/2"	1"	7/8"	73/4"	5/8"	1/2"
x102	121/2"	7/8"	3/4"	73/4"	5/8"	1/2"
x89	121/2"	3/4"	¹ 1/ ₁₆ "	73/4"	5/8"	1/2"
x73	121/2"	5/8"	%16"	73/4"	5/8"	1/2"
HP 12x84	10"	7/8"	¹ 1/ ₁₆ "	61/2"	5/8"	1/2"
x74	10"	7/8"	¹ ½16"	61/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	61/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	61/2"	1/2"	3/8"
HP 10x57	8"	3/4"	%16"	51/4"	1/2"	3/8"
x42	8"	5/8"	%16"	51/4"	1/2"	3/8"
HP 8x36	7"	5/2"	7/16"	41/4"	1/2"	3/2"

WELDED PLATE FIELD SPLICE

USER NAME = JSavage	DESIGNED - LBK	REVISED -	PIKE COUNTY		S.B.I.	SECTION	COUNTY TOTAL SHEETS	HEET
	DRAWN - LBK	REVISED -		HP PILE DETAILS	36	22-16119-00-BR	PIKE 19	16
PLOT SCALE = \$SCALE\$	CHECKED - JPS/BAN	REVISED -	S.B.I 36 (TR 424B)			S.N. 075-3336	CONTRACT NO. 93829	9
PLOT DATE = 12/16/2024	DATE - 12/04/2024	REVISED -	OVER BLUE CREEK	SCALE: NONE SHEET 10 OF 10 SHEETS	FED. ROAD	DIST. NO. 7 ILLINOIS	FED. AID PROJECT NO. R32N(845)	j)

PILE NAME: V15173 - TR 424B over Blue Creek 075-0050

Typ. along `splicer /

