STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS**

PLANS FOR PROPOSED TOWNSHIP BRIDGE PROGRAM PROJECT

SECTION 23-04132-00-BR RICHLAND COUNTY DENVER ROAD DISTRICT

TR 52

PLAN	0	50*	100
PROFILE HOR.	0	501	100
PROFILE VERT.	0	\$'	10"
CROSS SECTIONS			
HOR.	0	100	20'
VERT.	0	10"	20'

STANDARD DRAWINGS

ITEM COVER SHEET

STANDARD 000001-08 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS STANDARD 280001-07 TEMPORARY PROSION CONTROL SYSTEMS STANDARD 515001-04 NAME PLATE FOR BRIDGES

SUMMARY OF QUANTITIES, TYPICAL SECTIONS, GENERAL NOTES, AND DETAILS

BRIDGE SHOULDER WIDENING PLAN AND FIELD ENTRANCE DETAIL

PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS

SCHEDULE OF QUANTITIES AND DETAILS

FENCE (SPECIAL) DETAIL PLAN AND PROFILE

STEEL RAILING, TYPE S-1 ABUTMENT DETAILS

PILE DETAILS

BORINGLOGS

GENERAL PLAN AND ELEVATION

CROSS SECTIONS OF ROADWAY

STANDARD 542301-03 PRECAST REINFORCED CONCRETE FLARED END S STANDARD 542311-07 TRAVERSABLE PIPE GRATE FOR CONCRETE EN

STANDARD 701901-10 TRAFFIC CONTROL DEVICES STANDARD 725001-01 OBJECT AND TERMINAL MARK STANDARD RIP 21-9 TYPICAL APPLICATION

RAL LOCAL HIGHWAYS

FIC CONTROL DEV

JOINT UTILITY LOCATING INFORMATIO

1-800-892-0123 OR 811 WEBSITE: https://www.illinois1call.com/

INDEX OF SHEETS

SHEET

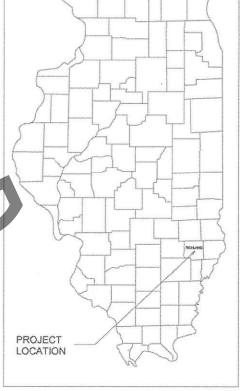
PROPOSED STRUCTURE NUMBER 080-3235 SINGLE SPAN PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE 62'-81/2" SPAN, 27" DEPTH BEAMS, 24.0' WIDE DECK 25° FORWARD RIGHT SKEW NO EXISTING STRUCTURE NUMBER

SECTION 23-04132-00-BR BEGINS STA. 0+00.00

R9E

NET LENGTH SECTION 23-04132-00-BR = 800.00 FEET = 0.152 MILES

ROUTE SECTION TOTAL COUNTY 23-04132-00-BR RICHLAND DENVER ROAD DISTRICT ILLINOIS





LICENSE EXPIRES 11/30/2025

CHARLESTON ENGINEERING, INC.

CONSULTING ENGINEERS - LAND SURVEYORS 105 NORTH KITCHELL AVENUE

P.O. BOX 397 OLNEY, ILLINOIS 62450

(618) 392-0736
ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513

SECTION 23-04132-00-BR ENDS STA. 8+00.00

T 5 N

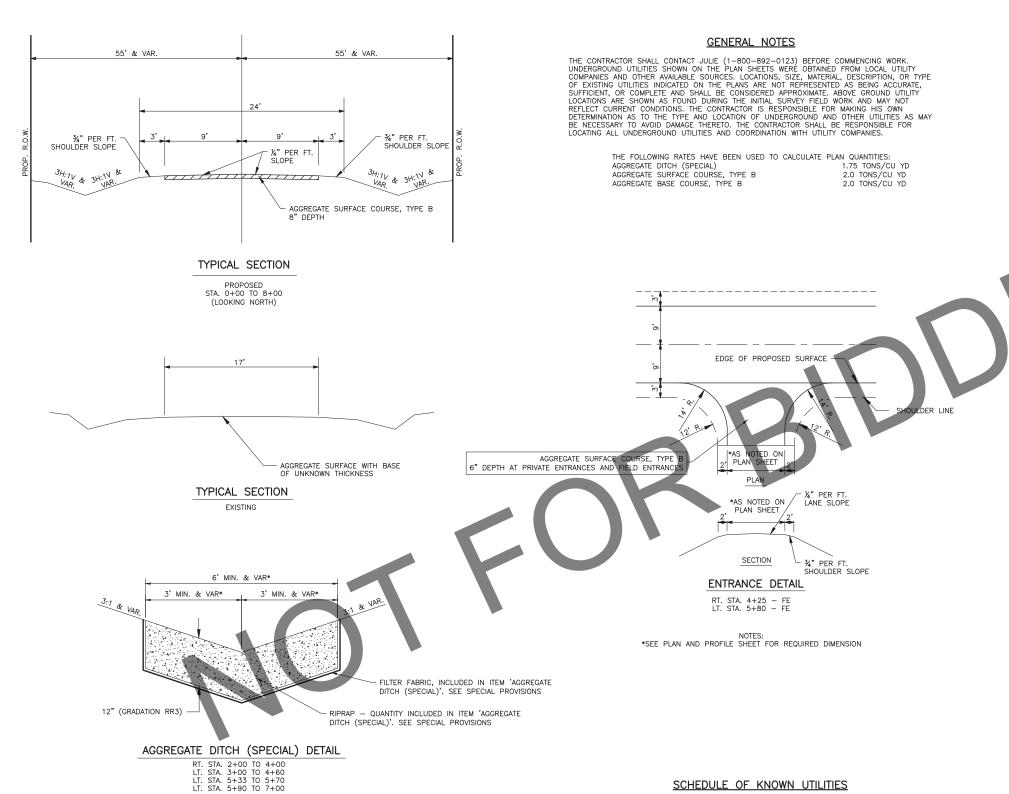
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PASSED

DISTRICT SEVEN ENGINEER OF

Bid Based on

FUNCTIONAL CLASSIFICATION - LOCAL ROAD ADT = 50DESIGN SPEED = 30 MPH



*SEE PLAN & PROFILE AND CROSS SECTION SHEETS FOR VARIABLE WIDTHS AND DITCH SIDE SLOPES

			TOTAL
ITEM NO.	ITEM	UNIT	QUANTITY
1	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.50
2	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	24
3	AGGREGATE DITCH (SPECIAL)	TON	510
4	EARTH EXCAVATION	CU YD	570
5	CHANNEL EXCAVATION	CU YD	485
6	FURNISHED EXCAVATION	CU YD	1,120
7	POROUS GRANULAR EMBANKMENT (SPECIAL)	TON	106
8	TRENCH BACKFILL	CU YD	80
9	PERIMETER EROSION BARRIER	FOOT	150
10	STONE DUMPED RIPRAP, CLASS A4	TON	930
11	AGGREGATE BASE COURSE, TYPE B	TON	425
12	AGGREGATE SURFACE COURSE, TYPE B	TON	900
13	REMOVAL OF EXISTING STRUCTURES	EACH	1
14	PIPE CULVERT REMOVAL	FOOT	72
15	CONCRETE STRUCTURES	CU YD	31.8
16	CONCRETE ENCASEMENT	CU YD	2.8
17	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1,536
18	REINFORCEMENT BARS	POUND	4,880
19	STEEL RAILING, TYPE S1	FOOT	133
20	FURNISHING STEEL PILES HP12X53	FOOT	280
21	DRIVING PILES	FOOT	280
22	TEST PILE STEEL HP12X53	EACH	1
23	PILE SHOES	EACH	8
24	NAME PLATES	EACH	1
25	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 48"	EACH	2
26	TRAVERSABLE PIPE GRATE (SPECIAL)	EACH	2
27	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	40
28	PIPE CULVERTS, CLASS D, TYPE 2 48"	FOOT	80
29	TERMINAL MARKER - DIRECT APPLIED	EACH	4

FOOT

30 FENCE (SPECIAL)

SUMMARY OF QUANTITIES

SCHEDULE OF KNOWN UTILITIES

DESIGN STAGE JULIE NO. A242650372

PHONE NUMBER E-MAIL ADDRESS
618-783-8765 thuber@norriselectric.com MAILING ADDRESS 8543 N. ILLINOIS 130, NEWTON, IL 62448

COMMITMENTS

- 1. U.S. ARMY CORPS OF ENGINEERS SECTION 404 NATIONWIDE PERMIT.
- 2. TREES THREE (3) INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED BETWEEN APRIL 1 AND SEPTEMBER 30 OF ANY GIVEN YEAR.

CHARLESTON ENGINEERING, INC.	DESIGNED - BMB	REVISED -	CTATE OF HUNDIC	CHAMARY OF CHANTITIES TYPICAL SECTIONS	ROUTE	SECTION	COUNTY	SHEETS	NO.
CONSULTING ENGINEERS - LAND SURVEYORS	DRAWN — BMB	REVISED -	STATE OF ILLINOIS	SUMMARY OF QUANTITIES, TYPICAL SECTIONS,	TR 52	23-04132-00-BR	RICHLAND	20	2
105 NORTH KITCHELL AVENUE OLNEY, ILLINOIS 62450	CHECKED - BMB	REVISED -	DEPARTMENT OF TRANSPORTATION	GENERAL NOTES, AND DETAILS	111 32	23 0+132 00 BK	MOTIDAND	20	
P.O. BOX 397 (618) 392-0736 ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513	DATE - 7-16-2025	REVISED -	DELY (KIMERAL OF THAT (140)	02/12/1/12 / 1/0/20 / 1/1/10 / 1/1/10	DENVER ROAD DISTRICT		ILLINOIS		

	SEEDING SCHEDULE									
ľ	TEM NUMBER	1		FOR INFORM	MATION ONLY					
			NITROGEN	PHOSPHOROUS	SUITABLE POTASSIUM					
		SEEDING, CLASS 2	FERTILIZER NUTRIENT	FERTILIZER NUTRIENT	FERTILIZER NUTRIENT	MULCH METHOD 2				
LOCATION	STATION	(SPECIAL)	(100 LBS/ACRE)	(100 LBS/ACRE)	(100 LBS/ACRE)	(2 TONS/ACRE)				
		(ACRE)	(POUND)	(POUND)	(POUND)	(TONS)				
LT. & RT.	STA. 1+00.00 TO 4+66.09	0.30	30	30	30	0.60				
LT. & RT.	STA. 5+33.91 TO 8+00.00	0.20	20	20	20	0.40				
	TOTAL =	0.50	50	50	50	1.00				

NOTE: FERTILIZER AND MULCH QUANTITIES SHOWN ARE FOR INFORMATION ONLY, SEE SPECIAL PROVISIONS

TREE REMOVAL SCHEDULE									
ITI	EM NUMBER	₹	2						
			TREE REMOVAL,						
		OFFSET	OVER 15 UNITS						
LOCATION	STATION	FROM CL	DIAMETER						
		(FT)	(UNIT)						
LT.	STA. 4+58	25	24						
		TOTAL =	24						

AGGREGATE DITCH SCHEDULE						
ITEN	/I NUMBER	3				
		AGGREGATE				
		DITCH				
LOCATION	STATION	(SPECIAL)				
		(TON)				
RT.	STA. 2+00 TO 4+00	180				
LT.	STA. 3+00 TO 4+60	195				
LT.	STA. 5+33 TO 5+70	30				
LT.	STA. 5+90 TO 7+00	105				
	TOTAL =	510				

			TO	TAL =	150		
RT.	STA.	5+50	ТО	7+00	150		
					(FOOT)		
LOCATION		STATI	ON		BARRIER		
					EROSION		
					PERIMETER		
ITI	EMNU	JMBEF	t		9		
PERIMETER EROSION BARRIER							

PIPE CULVERT REMOVAL SCHEDULE								
ITEM NUMBER 14								
LOCATION	STATION	DIAMETER	TYPE	PIPE CULVERT REMOVAL				
		(IN)		(FOOT)				
A.R.	STA. 4+06	48 E.R.S.	ELLIPTICAL CMP	51				
LT.	STA. 5+51	18	CMP	21				
			TOTAL =	72				

	PIPE CULVERT SCHEDULE										
ITEM	NUMBER	27	28	8	11	25	26				
		PIPE CULVERTS,	PIPE CULVERTS,		AGGREGATE	PRECAST REINFORCED	TRAVERSABLE				
		CLASS D, TYPE 1	CLASS D, TYPE 2	TRENCH	BASE COURSE,	CONCRETE FLARED END	PIPE GRATE				
LOCATION	STATION	18"	48"	BACKFILL	TYPE B	SECTIONS 48"	(SPECIAL)				
		(FOOT)	(FOOT)	(CY)	(TON)	(EACH)	(EACH)				
A.R.	STA. 3+91.56	-	80	80	410	2	2				
LT.	STA. 5+80	40	-	-	15	-	-				
	TOTAL =	40	80	80	425	2	2				

ROADWAY SCHEDULE							
	ITEM NUMBER	12					
LOCATION	STATION	AGGREGATE SURFACE COURSE, TYPE B					
LOCATION	STATION						
		(TON)					
LT. & RT.	STA. 0+00.00 TO 4+66.90	490					
LT. & RT.	STA. 5+33.10 TO 8+00.00	310					
RT.	STA. 4+25 (F.E.)	85					
LT.	STA. 5+80 (F.E.)	15					
	TOTAL =	900					

		EARTHWOR	K SCHEDULE							
CODE NUMBER 4 5 N/A N/A N/A N/A N/A N/A									N/A	
								ESTIMATED		
								SUITABLE		EARTHWORK
					ESTIMATED	ESTIMATED		MATERIAL		BALANCE
		EARTH	CHANNEL	PERCENT	UNSUITABLE	SUITABLE	SHRINKAGE	ADJUSTED FOR		WASTE (+) OR
LOCATION	STATION	EXCAVATION	EXCAVATION	USED	MATERIAL	MATERIAL	FACTOR	SHRINKAGE	EMBANKMENT	SHORTAGE (-)
		(CU YD)	(CU YD)	(%)	(CU YD)	(CU YD)	(%)	(CU YD)	(CU YD)	(CU YD)
LT. & RT.	STA. 1+50 TO 4+66.90	90		100	0	90	25	68	1145	-1077
LT. & RT.	STA. 4+66.90 TO 5+33.10 (PROPOSED BRIDGE)		485	50	242.5	242.5	25	182		182
LT. & RT.	STA. 5+33.10 TO 8+00	65		100	0	65	25	49	370	-321
	SUBTOTAL =	155	485		242.5	397.5	İ	299	1515	
	VOLUMES	NOT SHOWN O	N CROSS SECTION	ON SHEETS				•		
LT. & RT.	CONCRETE STRUCTURES & POROUS GRANULAR EMBANKMENT ABUTMENT BACKFILL VOID	130		100	0	130	25	98		98
LT. & RT.	AGGREGATE DITCH (SPECIAL)	285		100	0	285	25	214		214
RT.	STA. 4+25 (FIELD ENTRANCE)								155	-155
LT.	STA. 5+80 (FIELD ENTRANCE)								60	-60
	TOTAL =	570	485		242.5	812.5		611	1730	-1119

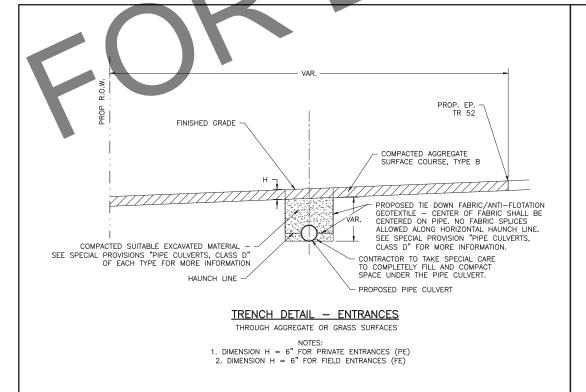
NOTES: 1. COST OF EXCAVATION FOR CONCRETE STRUCTURES INCLUDED IN ITEM "EARTH EXCAVATION."

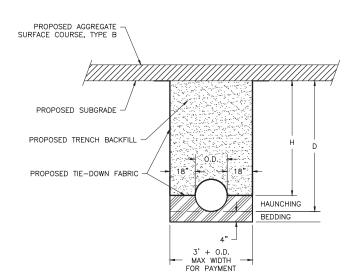
- 2. SUITABLE EXCAVATED MATERIAL EXCAVATED FROM THE CHANNEL SHALL BE USED TO CONSTRUCT THE SHOULDER WIDENING
- 3. UNSUITABLE MATERIAL SHALL BE DISPOSED OFF THE JOBSITE BY THE CONTRACTOR.
- 4. FURNISHED EXCAVATION = 1120 C.Y.

	RIPRAP SCHEDULE							
	ITEM NUMBER			10				
				STONE				
				DUMPED				
			OFFSET	RIPRAP,				
LOCATION	STATION		FROM CL	CLASS A4				
		T	(FT)	TON				
LT. & RT.	STA. 4+58	V	0 TO 55	812				
RT.	STA. 4+67 TO 5+33 55			118				
			TOTAL =	930				

	FENCE SCHEDULE							
ITE	ITEM NUMBER		N/A	N/A				
		FENCE	FENCE	CATTLE GUARD				
LOCATION	STATION	(SPECIAL)	REMOVAL	REMOVAL				
		(FOOT)	(FOOT)	(FOOT)				
LT.	STA. 4+00 TO 4+39	45	-	-				
LT.	STA. 5+08 TO 7+21	230	-	-				
LT.	STA. 4+00 TO 7+21	-	325	-				
LT.	STA. 4+80 TO 5+20	-	-	40				
	TOTAL =	275	325	40				

NOTE: FENCE REMOVAL AND CATTLE GUARD REMOVAL QUANTITY SHOWN IS FOR INFORMATION ONLY. FENCE REMOVAL AND CATTLE GUARD REMOVAL WILL NOT BE PAID FOR SEPARATALY, BUT SHALL BE INCLUDED IN THE COST OF FENCE (SPECIAL). RE-ERECTION OF THE CATTLE GUARD WILL BE BY OTHERS.





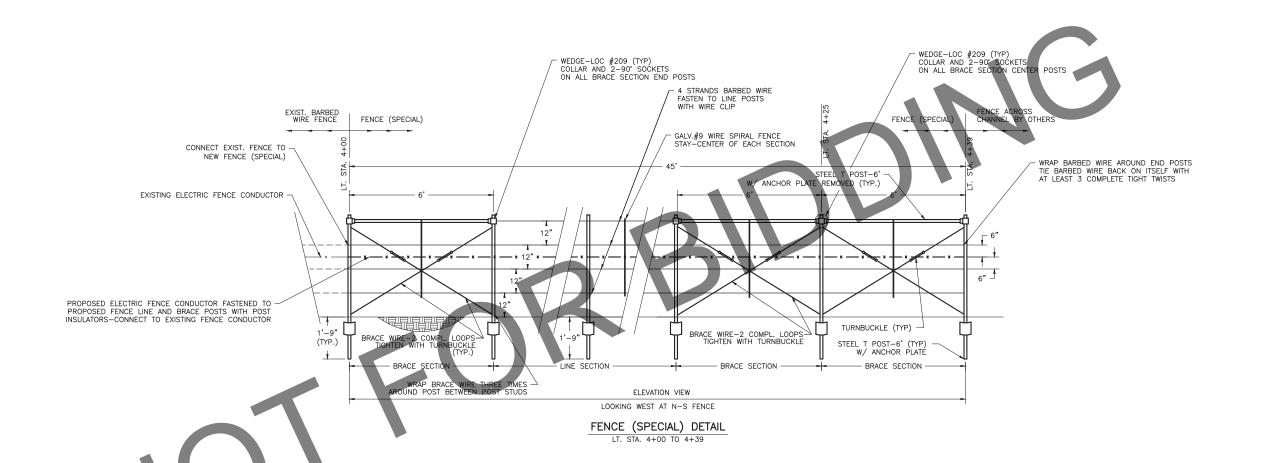
TRENCH DETAIL - PIPE CULVERTS, CLASS D, TYPE 2 48"

- 1. BEDDING AND HAUNCHING TO THE MIDPOINT OF PIPE INCLUDED IN ITEM "PIPE CULVERTS, CLASS D, TYPE 2 48".
 2. TIE DOWN FABRIC CENTER OF FABRIC SHALL BE CENTERED ON PIPE. NO FABRIC SPLICES ALLOWED ALONG HORIZONTAL HAUNCH LINE.

CHARLESTON ENGINEERING, INC. DESIGNED - BMB REVISED -ROUTE SECTION COUNTY SHEETS NO. STATE OF ILLINOIS CONSULTING ENGINEERS - LAND SURVEYORS DRAWN - BMB REVISED -SCHEDULE OF QUANTITIES AND DETAILS TR 52 23-04132-00-BR 20 RICHLAND 105 NORTH KITCHELL AVENUE OLNEY, ILLINOIS 62450
P.O. BOX 397 (618) 392-0736

NOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513

DATE - 7-16-2025 REVISED -DEPARTMENT OF TRANSPORTATION DENVER ROAD DISTRICT ILLINOIS REVISED -



 CHARLESTON ENGINEERING, INC.
 DESIGNED - BMB

 CONSULTING ENGINEERS - LAND SURVEYORS
 DRAWN - BMB

 105 NORTH KITCHELL AVENUE OLIPEY, ILLINOIS 62450 P.O. BOX 397 (618) 392-0736
 CHECKED - BMB

 LINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513
 DATE - 7-16-2025

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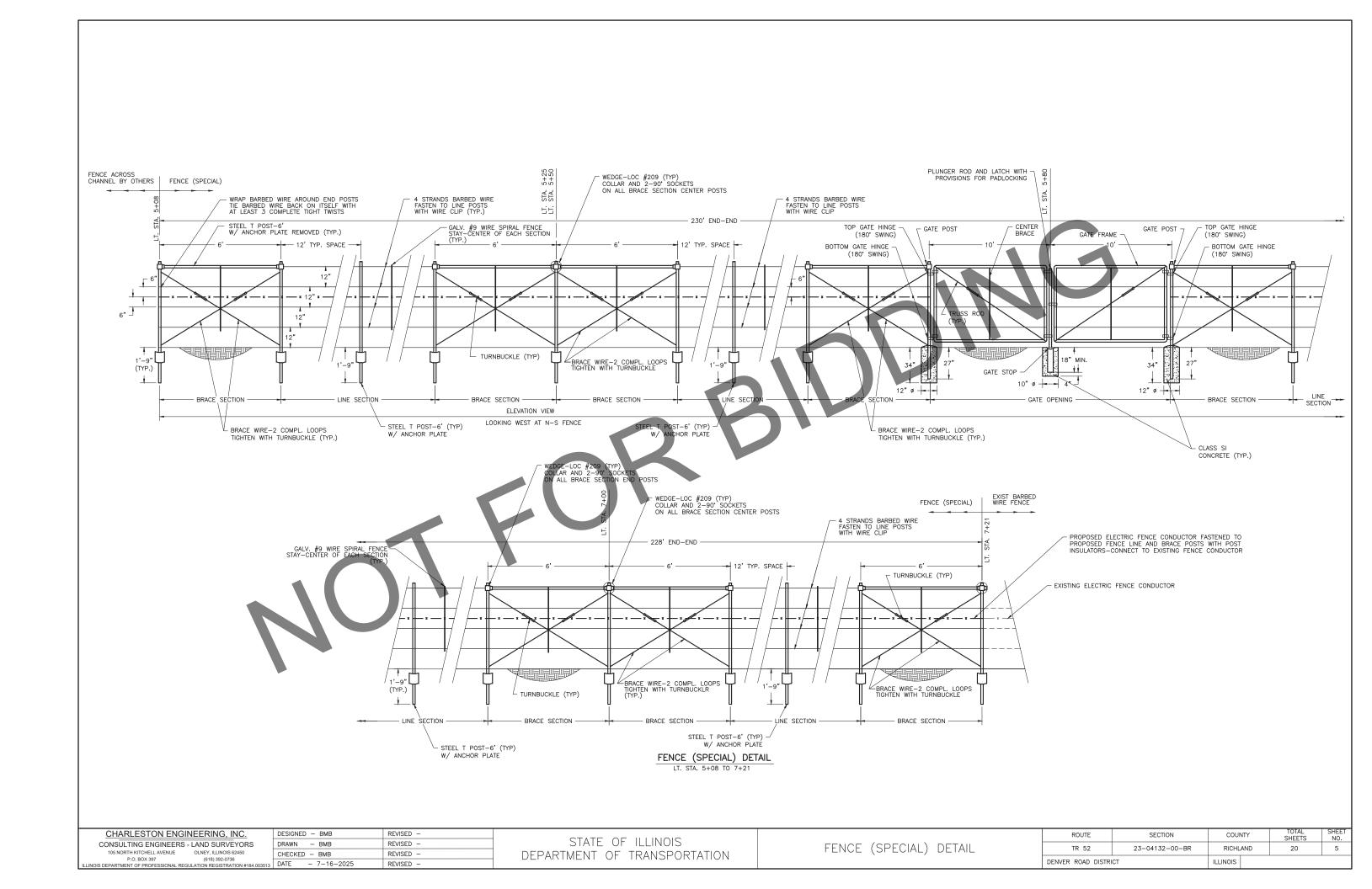
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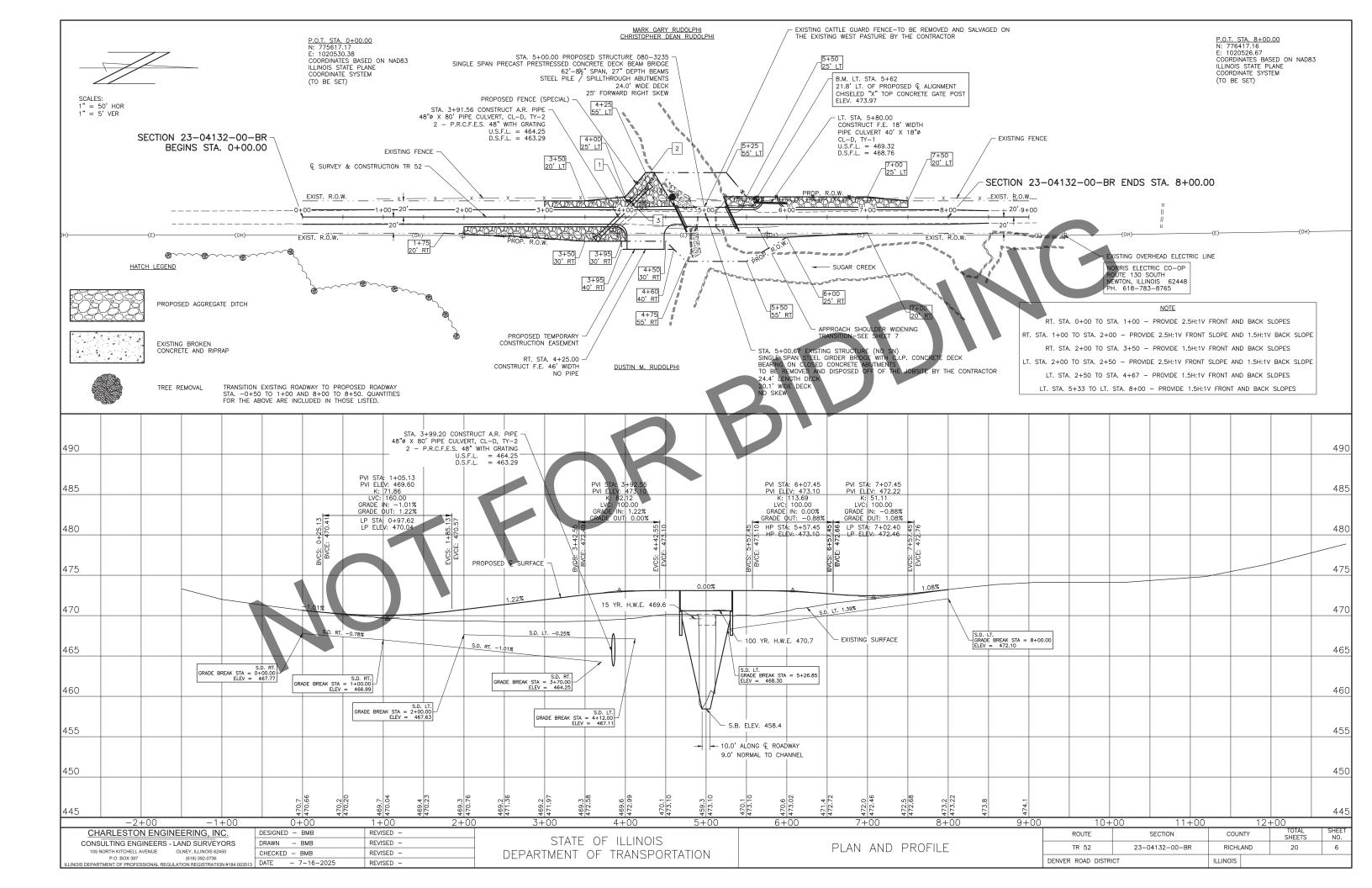
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION FENCE (SPECIAL) DETAIL

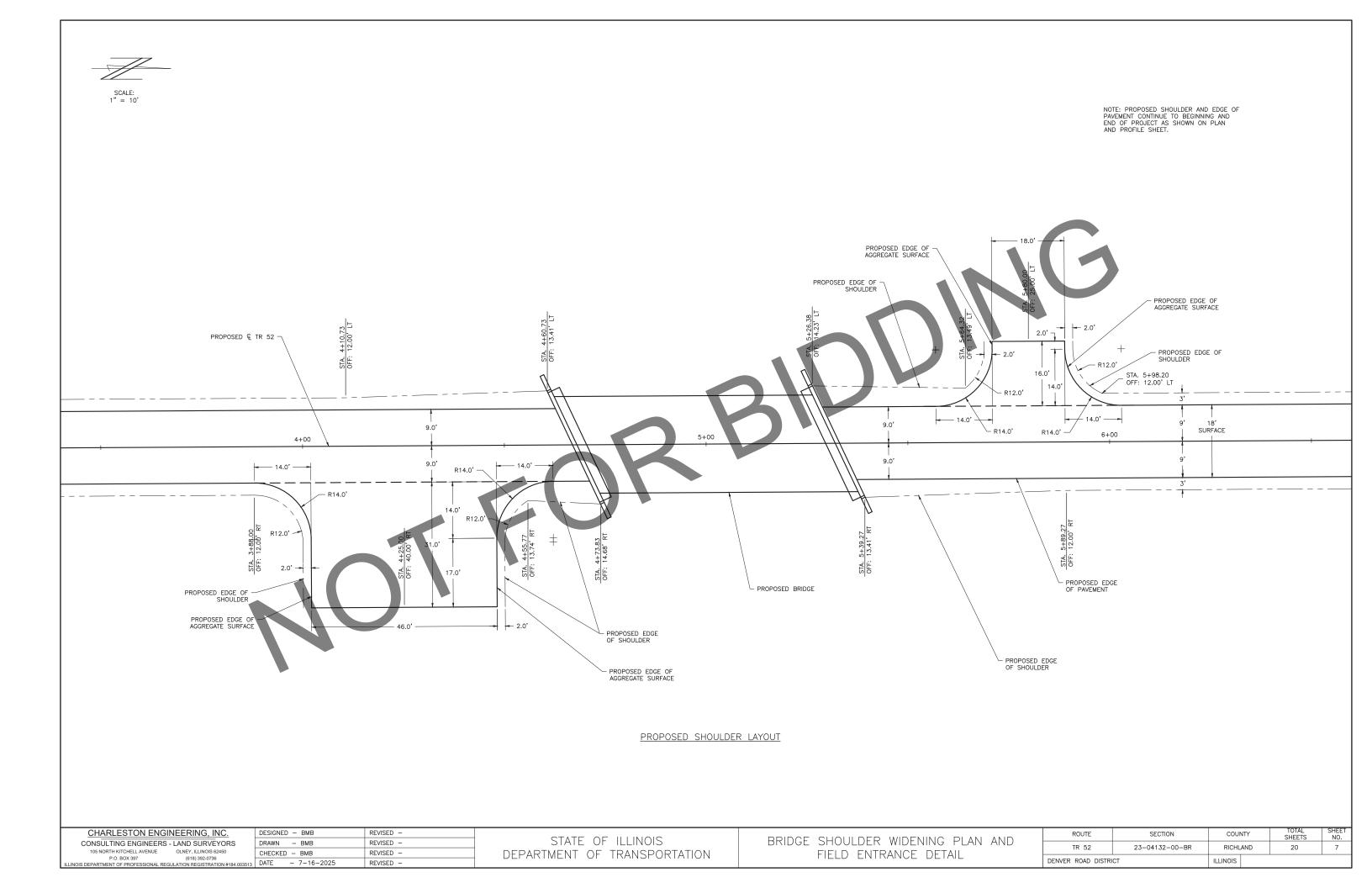
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 TOTAL SHEETS NO.

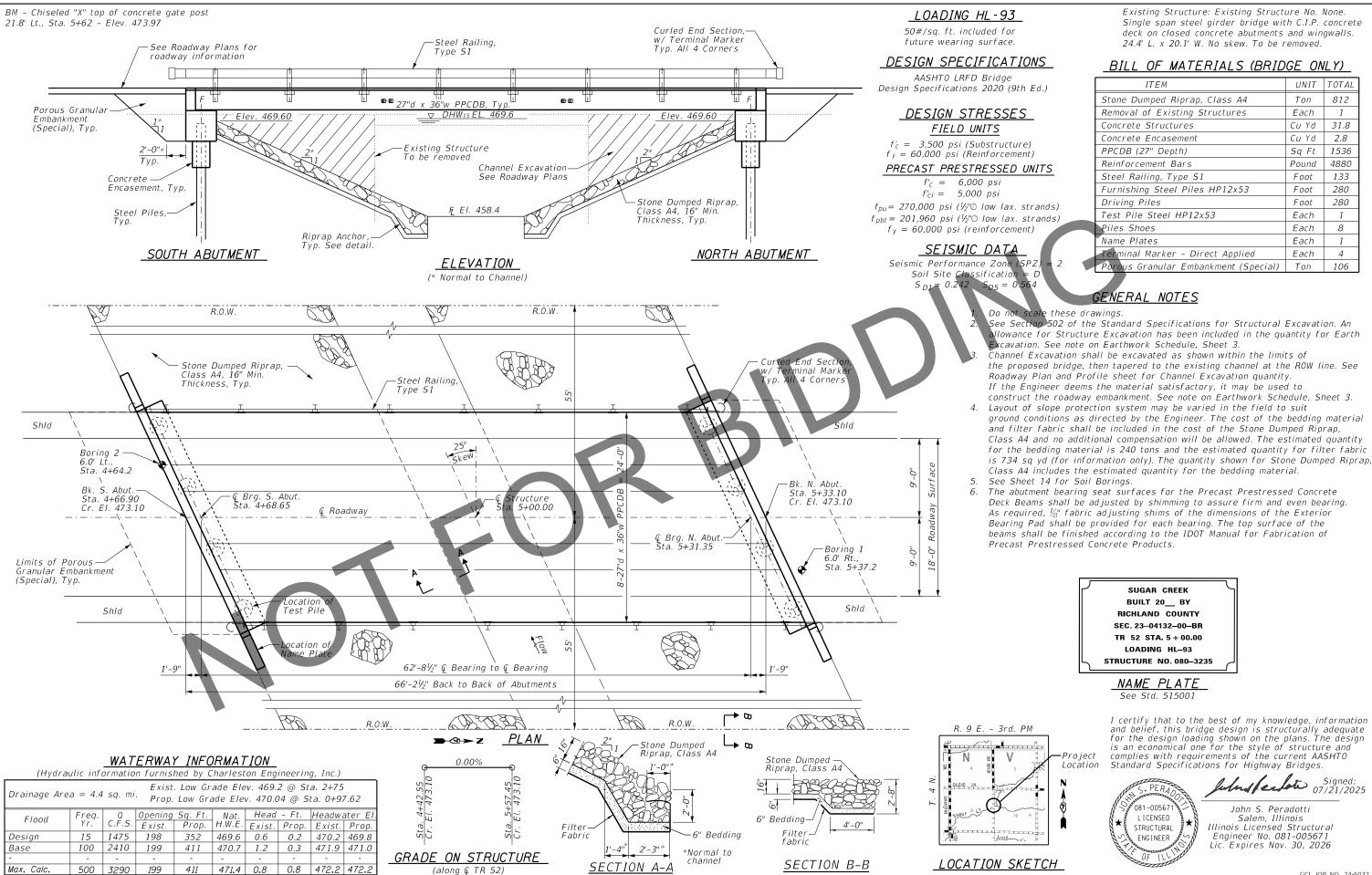
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 DENVER ROAD DISTRICT
 ILLINOIS
 ILLINOIS









_gonzalez

GONZALEZ COMPANIES, LLC
7 CARPENTER DRIVE
SALEM, IL 62881
PHONE (618) 222-2221
www.gonzalezcos.com

 DESIGNED JSP
 REVISED

 DRAWN JN
 REVISED

 CHECKED BLT
 REVISED

 DATE 07/21/2025
 REVISED

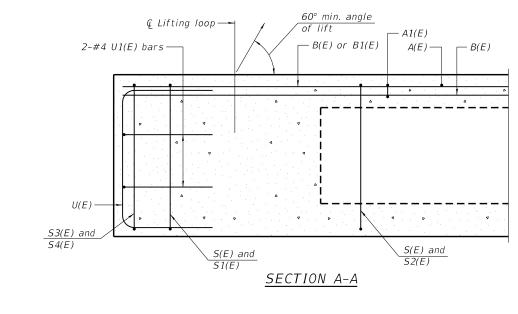
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

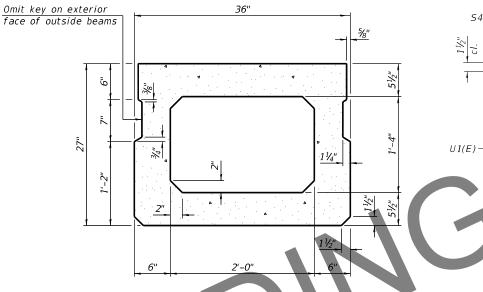
GENERAL PLAN AND ELEVATION

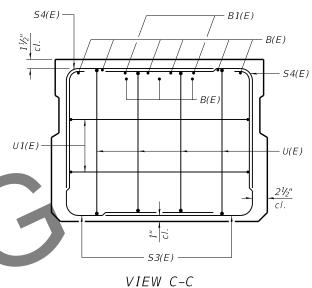
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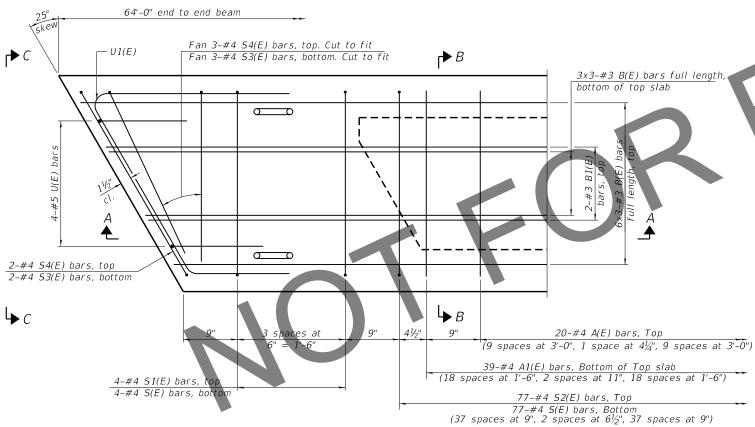
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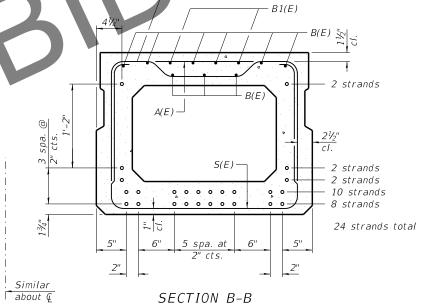


PLAN VIEW

Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Bars indicated thus: 6x3-#3, etc. indicates 6 lines of bars with 3 lengths per line.





(Showing reinforcement and permissible strand locations)

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

MINIMUM BAR LAP

BAR LIST ONE BEAM ONLY

(For information only)

Ε	Bar	No.	Size	Length	Shape
Α	(E)	20	#4	2'-7"	
Α.	1(E)	39	#4	2'-10"	{
В	(E)	27	#3	22'-3"	
В	1(E)	4	#3	10'-0"	
S	(E)	85	#4	7'-5"	
5	1(E)	8	#4	5'-11"	
5.	2(E)	77	#4	6'-2"	
5.	3(E)	10	#4	4'-11"	_]
S	4(E)	10	#4	4'-2"	
U	(E)	8	#5	4'-6"	
U.	1(E)	4	#4	6'-6"	\neg

TR 52

See sheet 10 for additional details and Bill of Material.

SECTION

23-04132-00-BR

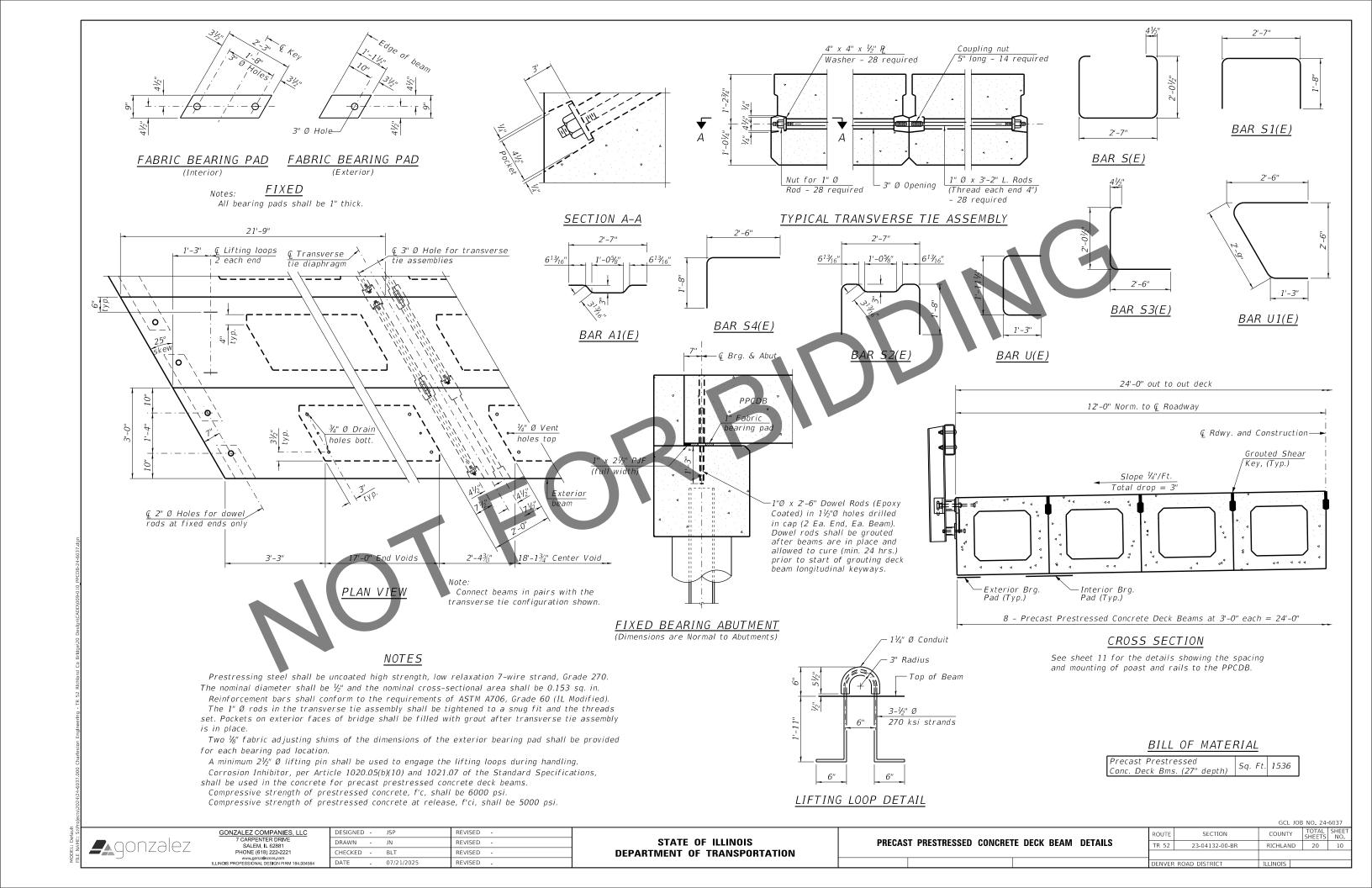
 $#3 \ bar = 1'-6''$

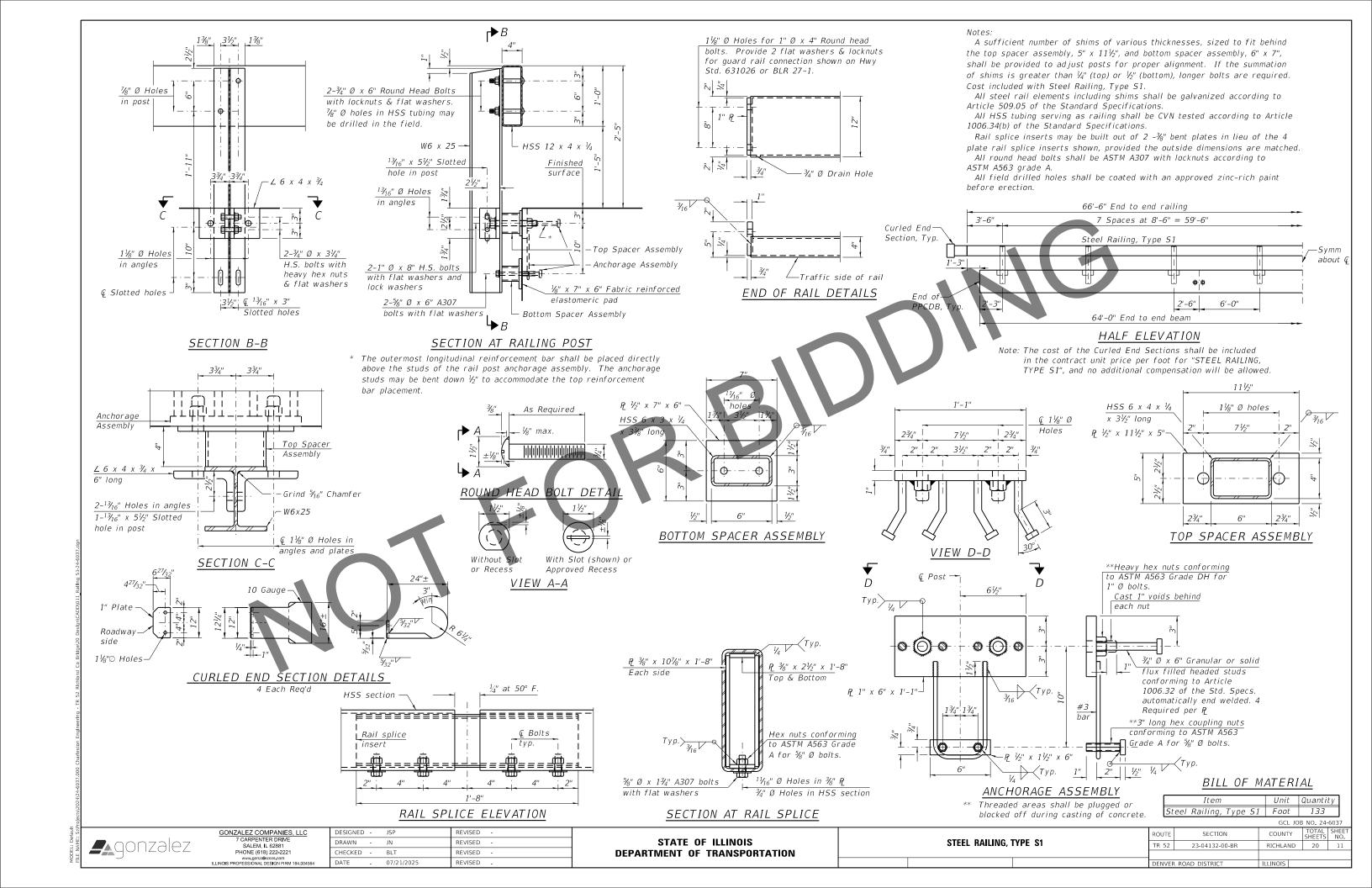
GONZALEZ COMPANIES, LLC 7 CARPENTER DRIVE / CARPENTER DRIVE
SALEM, IL 62881
PHONE (618) 222-2221
www.gonzalezcos.com
ILLINOIS PROFESSIONAL DESIGN FIRM 184.0045

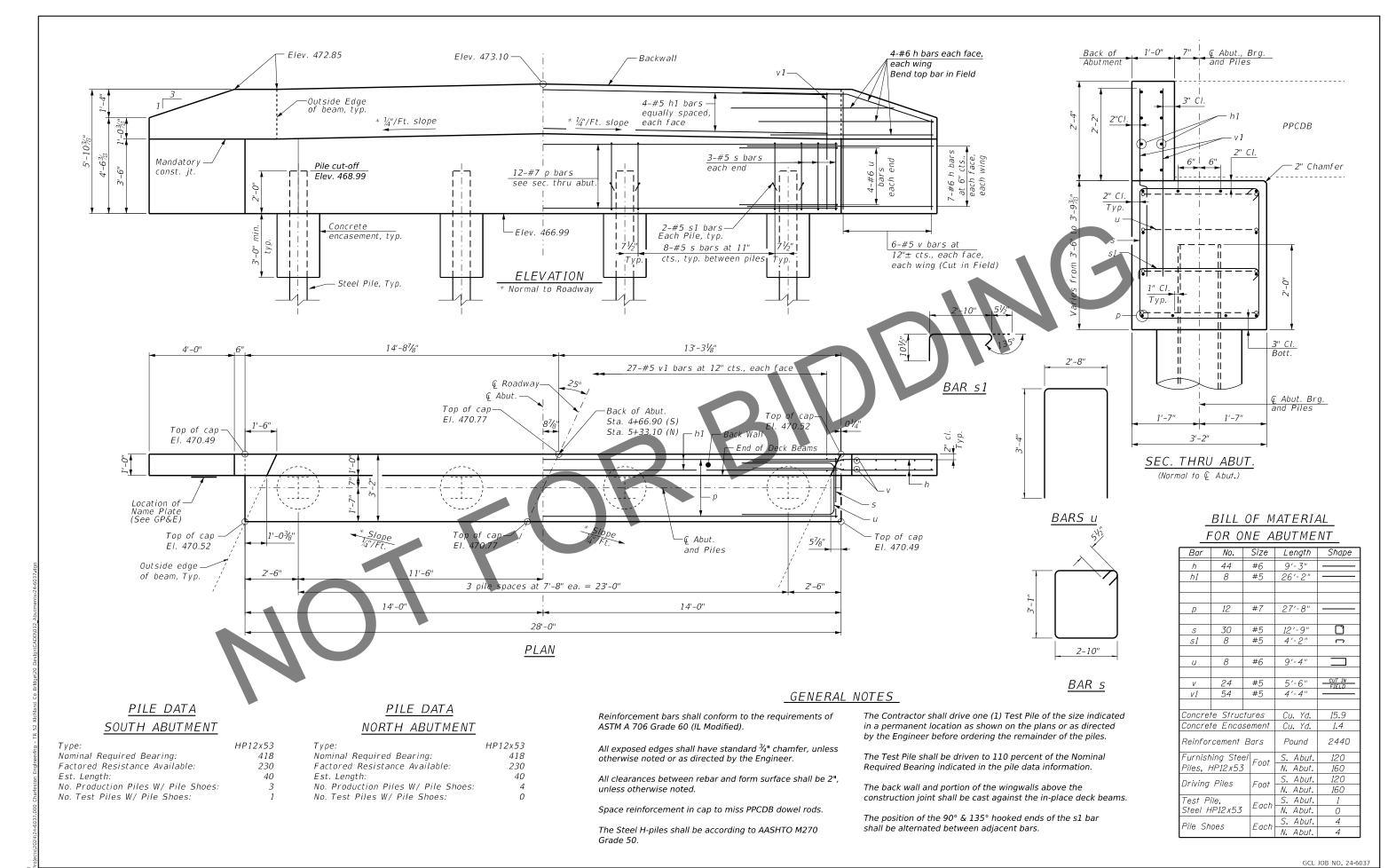
DESIGNED -REVISED DRAWN -JN REVISED CHECKED -BLT REVISED DATE REVISED 07/21/2025

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS

COUNTY RICHLAND 20







_gonzalez

GONZALEZ COMPANIES, LLC
7 CARPENTER DRIVE
SALEM, IL 62881
PHONE (618) 222-2221
www.gonzalezcos.com

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 07/21/2025
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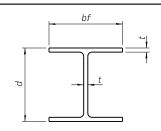
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ABUTMENT DETAILS

ROUTE
TR 52

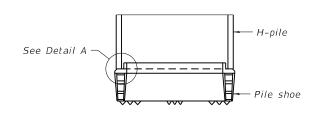
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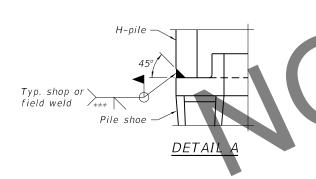


STEEL PILE TABLE

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"	1 4 3/4"	11/16"	30"
x89	137/8"	1 4 3/4"	5/8"	30"
x73	135%"	145/8"	1/2"	30"
HP 12x84	121/4"	121/4"	¹ 1/ ₁₆ "	24"
x74	12½"	121/4"	5/8"	24"
x63	12"	121/8"	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"

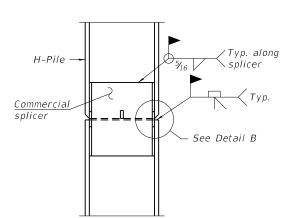


ELEVATION

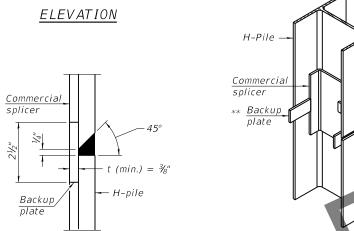


SHOE ATTACHMENT

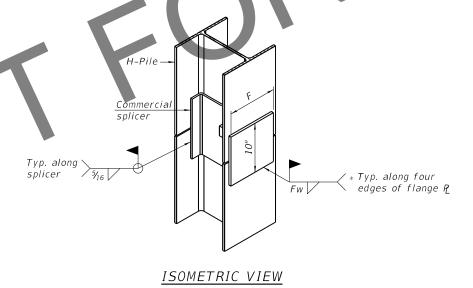
The steel H-piles shall be according to AASHTO M270 Grade 50.



DETAIL "B"

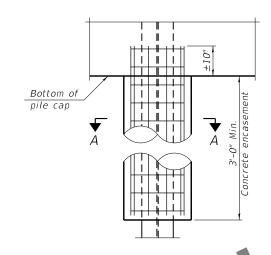


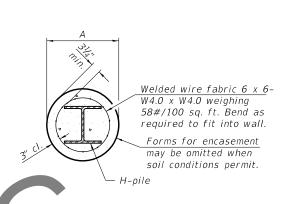
WELDED COMMERCIAL SPLICE



WELDED COMMERCIAL SPLICE ALTERNATE

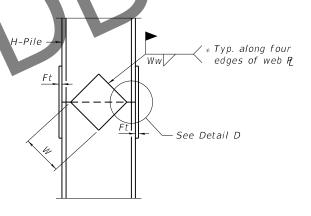
- $_*$ Interrupt welds $\frac{1}{4}$ " from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).

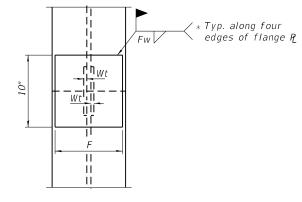




ELEVATION

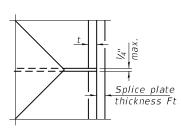
ENCASEMENT





ELEVATION

END VIEW



DETAIL	D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	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 ½ ₁₆ "	73/4"	5/8"	1/2"
x73	121/2"	5/8"	%16"	73/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6½"	5/8"	1/2"
x74	10"	7/8"	¹ ½ ₁₆ "	6½"	5/8"	1/2"
x63	10"	5/8"	1/2"	6½"	1/2"	3/8"
x53	10"	5/8"	1/2"	6½"	1/2"	3/8"
HP 10x57	8"	3/4"	%16"	5½"	1/2"	3/8"
x42	8"	5/8"	%16"	5½"	1/2"	3/8"
HP 8x36	7"	5/8"	⁷ / ₁₆ "	41/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

_qonzalez

GONZALEZ COMPANIES, LLC
7 CARPENTER DRIVE
SALEM, IL 62881
PHONE (618) 222-2221
www.gonzalezos.com
LINOIS PROFESSIONAL DESIGN FIRM 184,00456

REVISED DESIGNED -DRAWN -JN REVISED CHECKED -BLT REVISED DATE 07/21/2025 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

ISOMETRIC VIEW

PILE DETAILS

COUNTY SECTION TR 52 23-04132-00-BR 20 13 RICHLAND

HOLCOMB FOUNDATION 393 Wood Road Carbondale, II. 62901	618-	-52	9 - 5	26	2
Bridge	e F	ou	nd	at	ion Boring Log
Project: H-23238 Bridge Section: 23-04132-00-BR Station Structure: County: Richland	TR 5	52 c	over	Suc	Bored by: D. Russell Checked By: T. Hudgens
Boring No: 1 Station: Offset:	Elevation	z	Qu tsf	% w	Surface Water Elev. Ground Water Elev. During Drilling 453.8 Upon Completion 453.8 ✓ Stylia 1 Stylia 2 Styl
Ground Surface 469.8 5" Gravel Brown Silty CLAY (A-6)	0				
	_	10	2.5B	21	-25 66 3.0S 10
	<u>-5</u>	2	0.1B	27	47 7.3S 9
Brown Mottled Gray Sandy CLAY (A-6)		- 3		22	
Brown Silty CLAY (A-6) with sandstone and gravel	<u>-10</u>	34		9	
Gray Silty CLAY (A-6) with sand and gravel		70		9	Gray SHALE 436.3 100 9 9 100
	15	52	5.25	9	
Gray SAND (A-2-4) with trace clay	-	54		22	430.3 — /4" 8 End of Boring @ -39.5' -40
Gray SAND (A-2-4) with gravel	-20	104	0.85	15	
Gray Silty CLAY (A-6) with sand and gravel			8.25	_	
N = Standard Penetration Te Blows per foot to drive 2" Split Spoon Sampler 12" with a 140 lbs. hammer falling 3	0.D.	S	treno -Wa	gth ter	onfined Compressive B = Bulge Failure in tons/sq.ft. S = Shear Failure Content-percentage E = Estimated Value ven dry weight-% P = Penetrometer

Brid	ge F	ou	nd	at	ion Boring Log
	ae TR 5	2 0	ver	Suc	agr Creek 2 1/71/0004
Boring No: 2 Station: Offset:	Elevation	Z	Qu tsf	% M	Surface Water Elev to selection Surface Water Elev to selection
Ground Surface 470. 5" Gravel Brown Silty CLAY (A-6)	3 0	9	3.8S	13	
464.		6		9	65 4.7S 8
Brown Sand and Gravel (A-2 with trace clay 461.	-	4		20	46 10.5S s
Gray Mottled Brown Sandy CLAY (A-6) 459.	<u>–10</u>	2		23	
Gray Silty CLAY (A-6) with sand and gravel	_	42		8	
	<u>-15</u>	56	10.15		Gray SHALE 434.4 100 -/5" 1.5S 1
		44	9.95	9	100 /5"
					-40 - 100 428.8 /1" 1
	<u>-20</u>	52	10.48	9	
N = Standard Penetration	T .	52	9.15	27.0	onfined Compressive B = Bulge Failure

 CHARLESTON ENGINEERING, INC.
 DESIGNED - BMB

 CONSULTING ENGINEERS - LAND SURVEYORS
 DRAWN - BMB

 105 NORTH KITCHELL AVENUE
 OLNEY, ILLINOIS 62450
 CHECKED - BMB

 P.O. BOX 397
 (818) 392-0736
 CHECKED - BMB

 ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513
 DATE - 7-16-2025

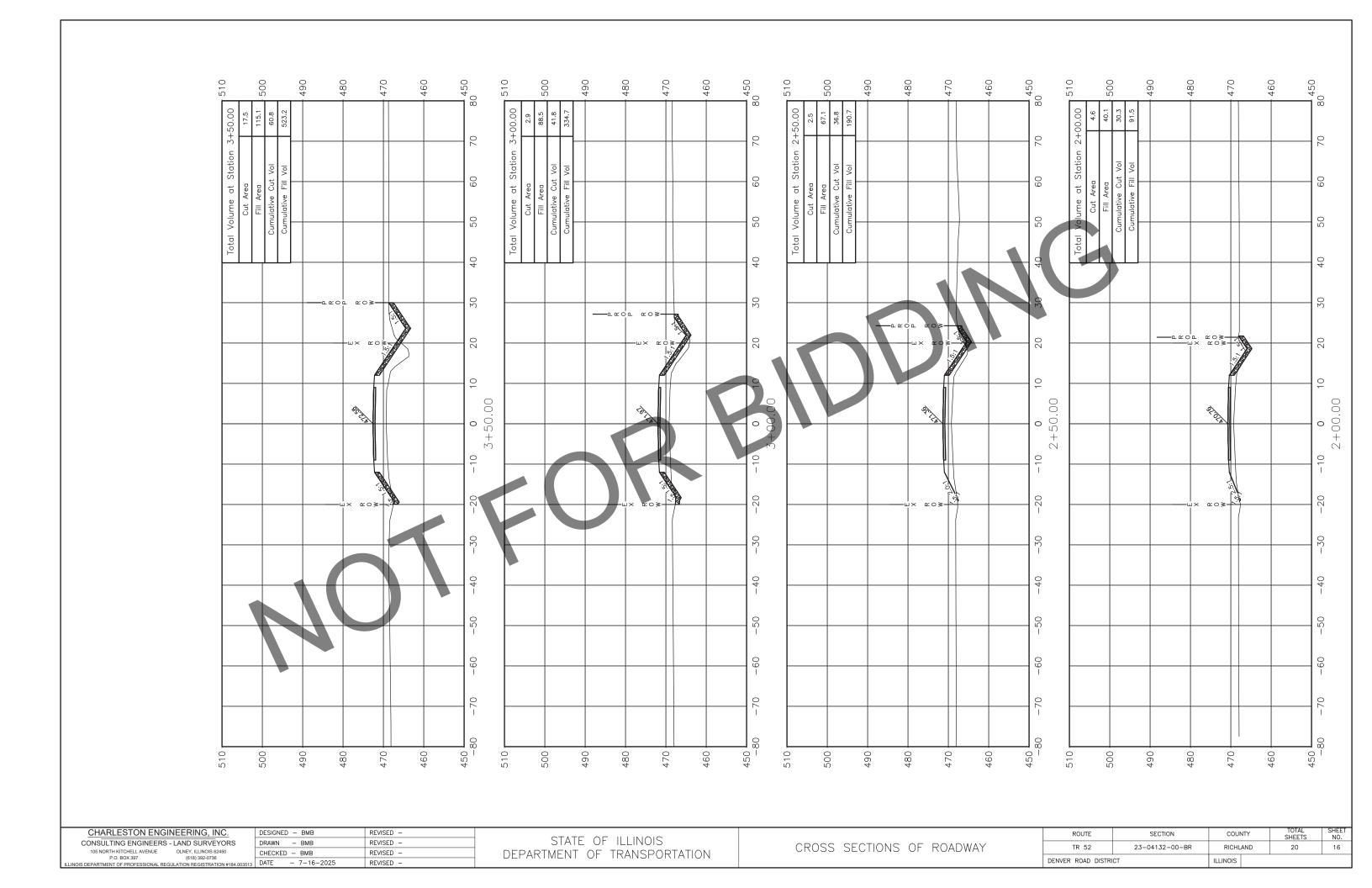
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

 ROUTE
 SECTION
 COUNTY
 TOTAL SHEETS NO.

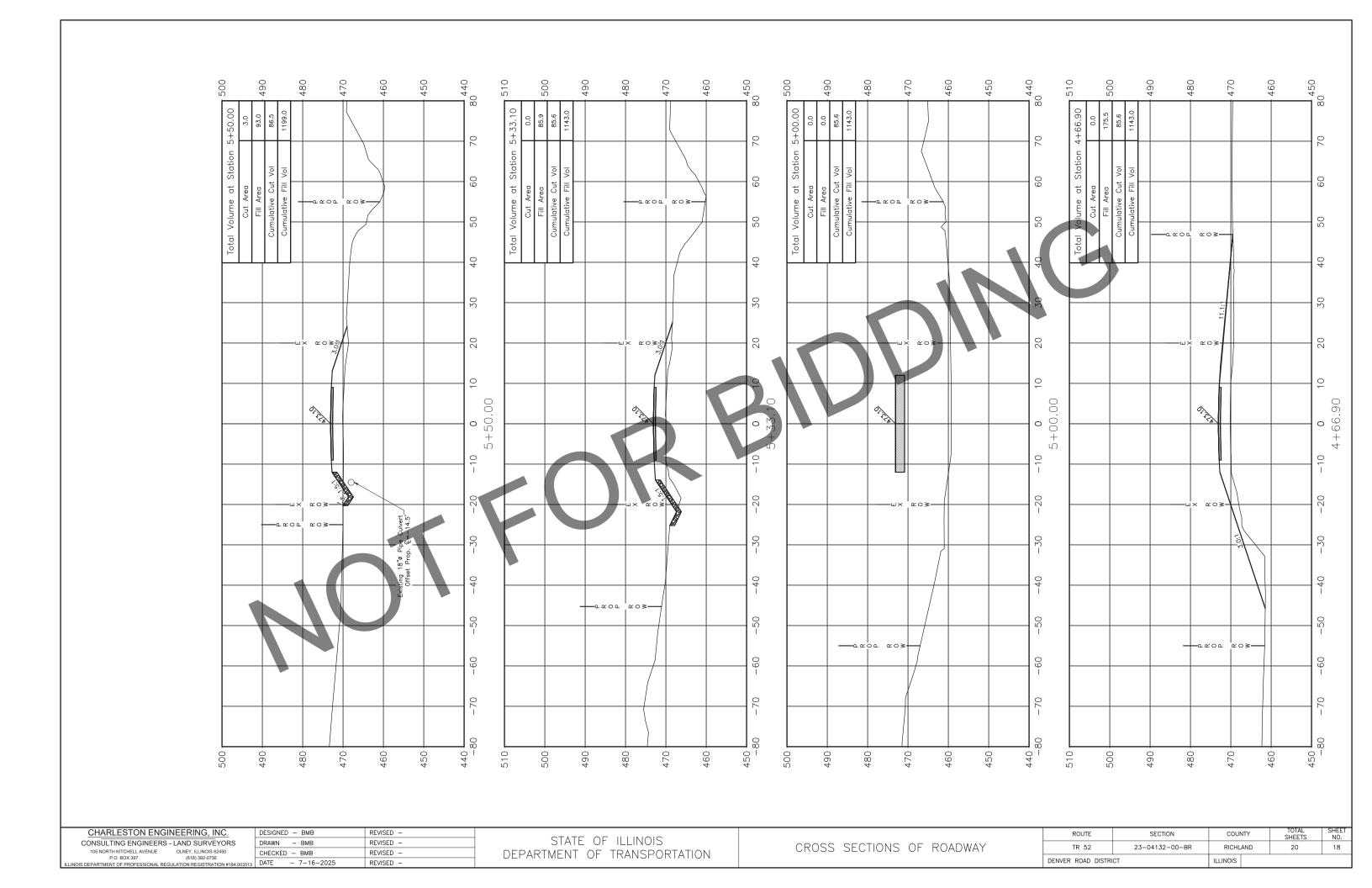
 TR 52
 23-04132-00-BR
 RICHLAND
 20
 14

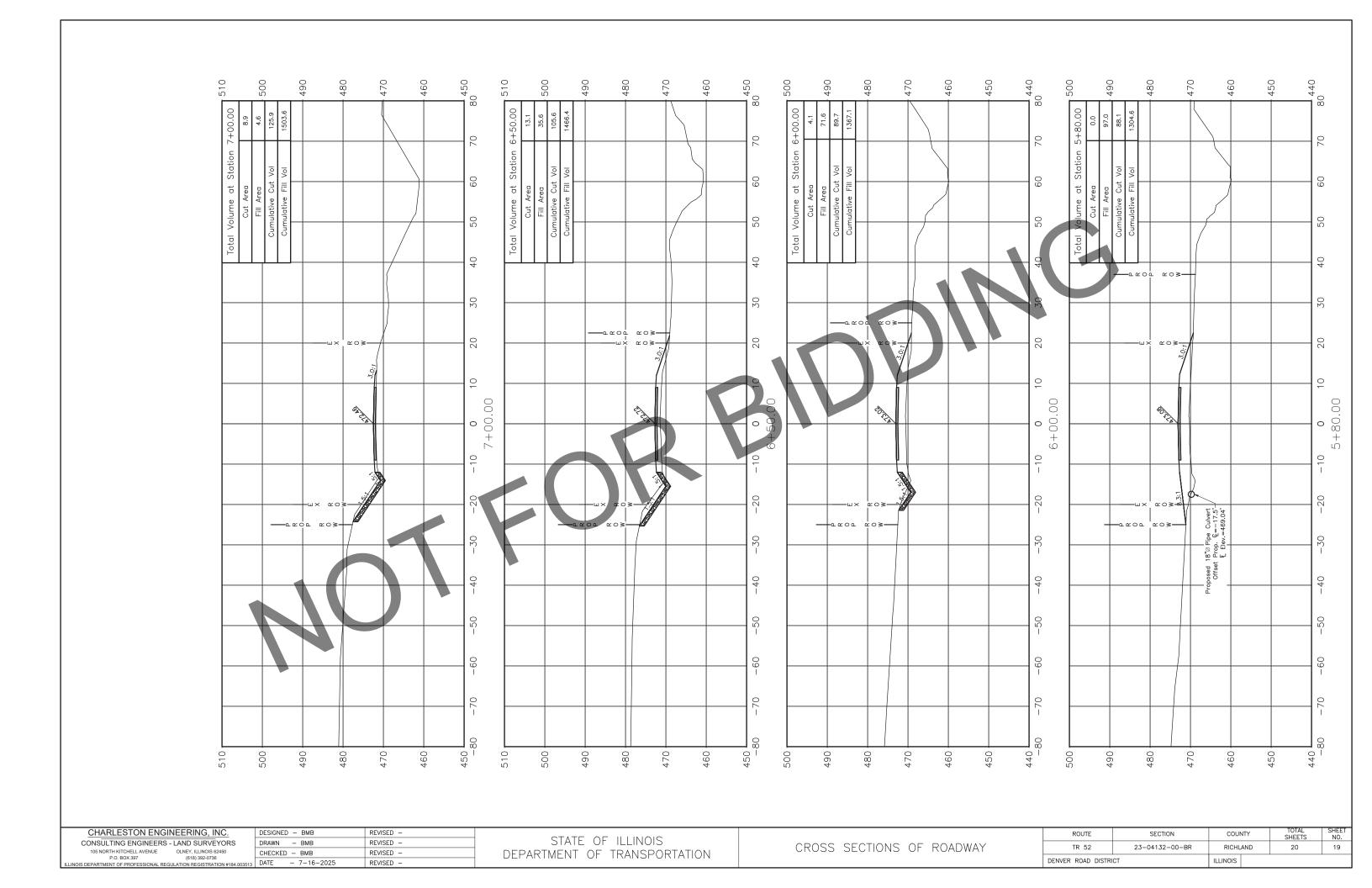
 DENVER ROAD DISTRICT
 ILLINOIS
 ILLINOIS

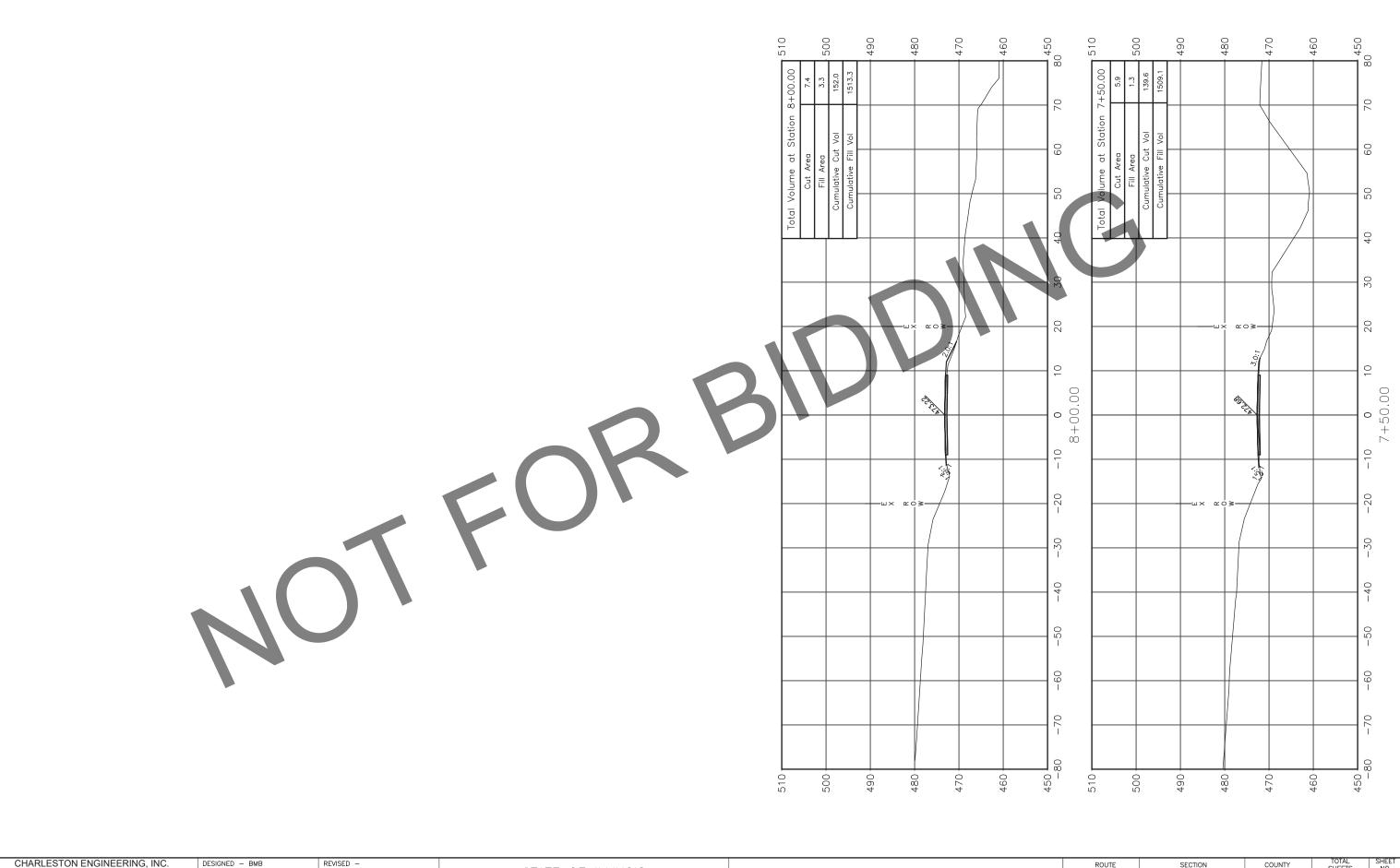












CONSULTING ENGINEERS - LAND SURVEYORS

105 NORTH KITCHELL AVENUE OLINEY, ILLINOIS 62450
P.O. BOX 397 (618) 392-0736

LINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.0035

| DRAWN - BMB | REVISED - | | CHECKED - BMB | REVISED - | | DATE - 7-16-2025 | REVISED - | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS OF ROADWAY

 ROUTE
 SECTION
 COUNTY
 IOIAL SHEETS NO.

 TR 52
 23-04132-00-BR
 RICHLAND
 20
 20

 DENVER ROAD DISTRICT
 ILLINOIS
 ILLINOIS