03-06-2020 LETTING ITEM 183

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

PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM - BRIDGE

SECTION 18-06125-00-BR LAWRENCE COUNTY

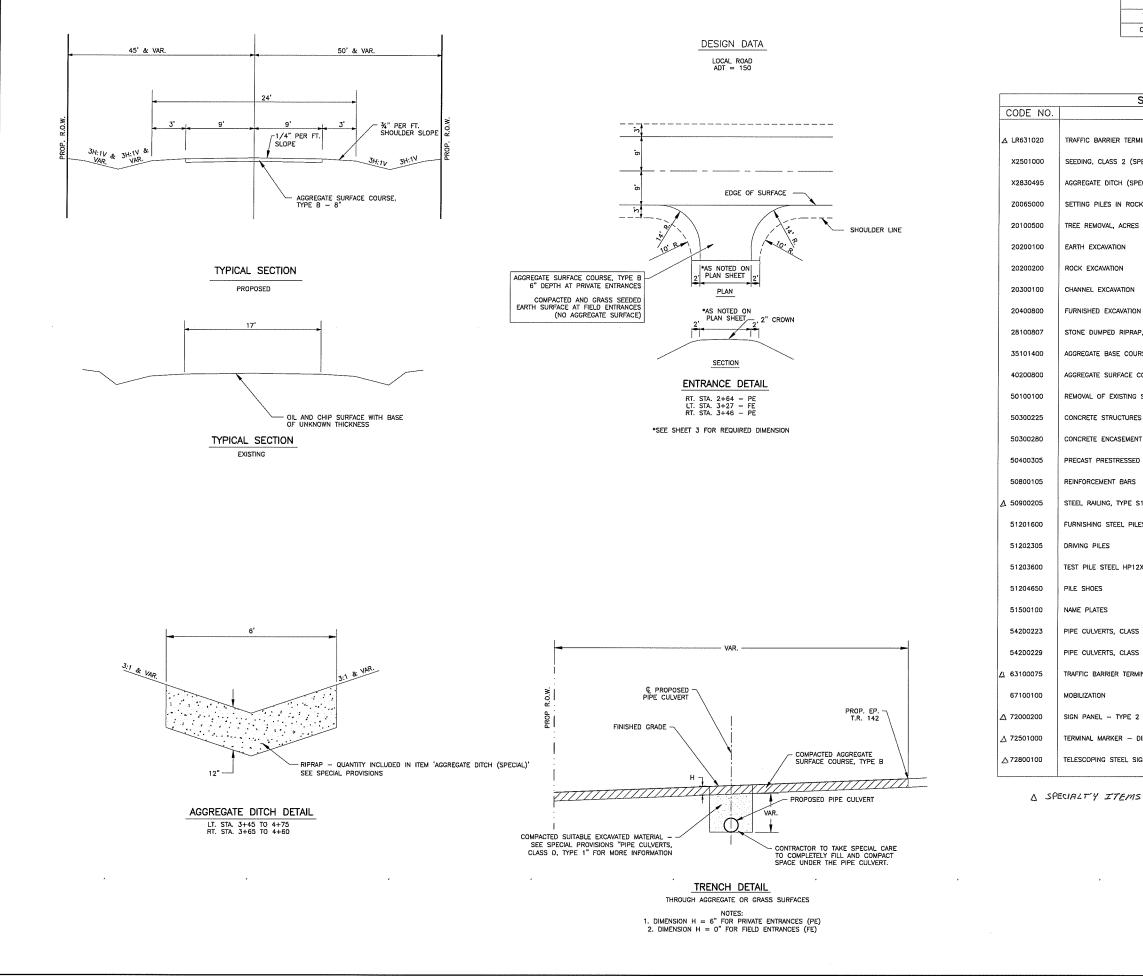
INDEX OF SHEETS

SHEE	IEETS ITEM			T ST15(541)		
1 2 3 4 5 6 7 8 9 10 11 11	COVER SHEET SUMMARY OF QUANTITIES ROADWAY PLAN AND PROFILE GENERAL PLAN AND ELEVATION SUPERSTRUCTURE SPAN 1 OR 3 SUPERSTRUCTURE DETAILS SPAN 1 OR 3 SUPERSTRUCTURE DETAILS SPAN 2 SUPERSTRUCTURE DETAILS SPAN 2 STEEL RAILING, TYPE S-1 STEEL RAILING, TYPE S-1 STEEL RAILING, TYPE S-1 SOUTH ABUTMENT DETAILS NORTH ABUTMENT DETAILS			C-97-072-20 R. 142 $\frac{50' 100'}{50' 100'}$ $\frac{50' 100'}{0}$	Joint Utility Locat	RACT NO. 95867 ting Information for Excavators E 1-800-892-0123
13 14 15 16-20	PIER DETAILS PILE DETAILS BORING LOGS CROSS SECTIONS		VERT.	0 10' 20' JALID FOR 24" X 36" SHEETS		I
	STANDARD DRAWINGS STANDARD 200001-07 STANDARD 210001-04 STANDARD 71001-04 STANDARD 72000-04 STANDARD 72000-04 STANDARD 72000-04 STANDARD 72000-01 STANDARD BLR 21-9 STANDARD BLR 23-4 STANDARD BLR 25-3 STANDARD BLR 25-3 STANDARD BLR 27-1	T 4 N T 3 N		R12W R11W	T 4 N T 3 N	SECTION 18-06125-00- ENDS STA. 8+85.00

FUNCTIONAL CLASSIFICATION - LOCAL ROAD ADT = 150 DESIGN SPEED = 30 MPH

NET LENGTH SECTION 18-06125-00-BR = 735.00 Ft. = 0.139 Mi.

ROUT	E	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R.	142	18-06125-00-BR	LAWRENCE	20	1
T.R. CONTR			LAWRENCE	SHEETS	
s		Ar		nal l	
	PF				
		00 N.M. 00 2.06 00 2.06 000	JONAL		
	CH	ARLESTON EN	GINEERIN	IG, INC.]
		CONSULTING 105 NOR P.O. BOX	6 ENGINEER TH KITCHELL 397 LLINOIS 62450 -0736	RS	
	APPRO	DVED December Harm Alt COUNT	LO , 20 D YENGINEER) <u>19</u>	
00-BR		STATE O DEPARTMENT OF	F ILLINOIS TRANSPORTAT	TION	
	PASSE Releasing Bid Based Limited Re	DISTRICT S LOCAL RO	2(2, 24 <u><u>p</u><u>u</u>clow EVEN ENGINEE ADS AND STRE 2(2, 24) 2(2, 24) (2, 24) (2,</u>	TR OF ETS D 19	
2					



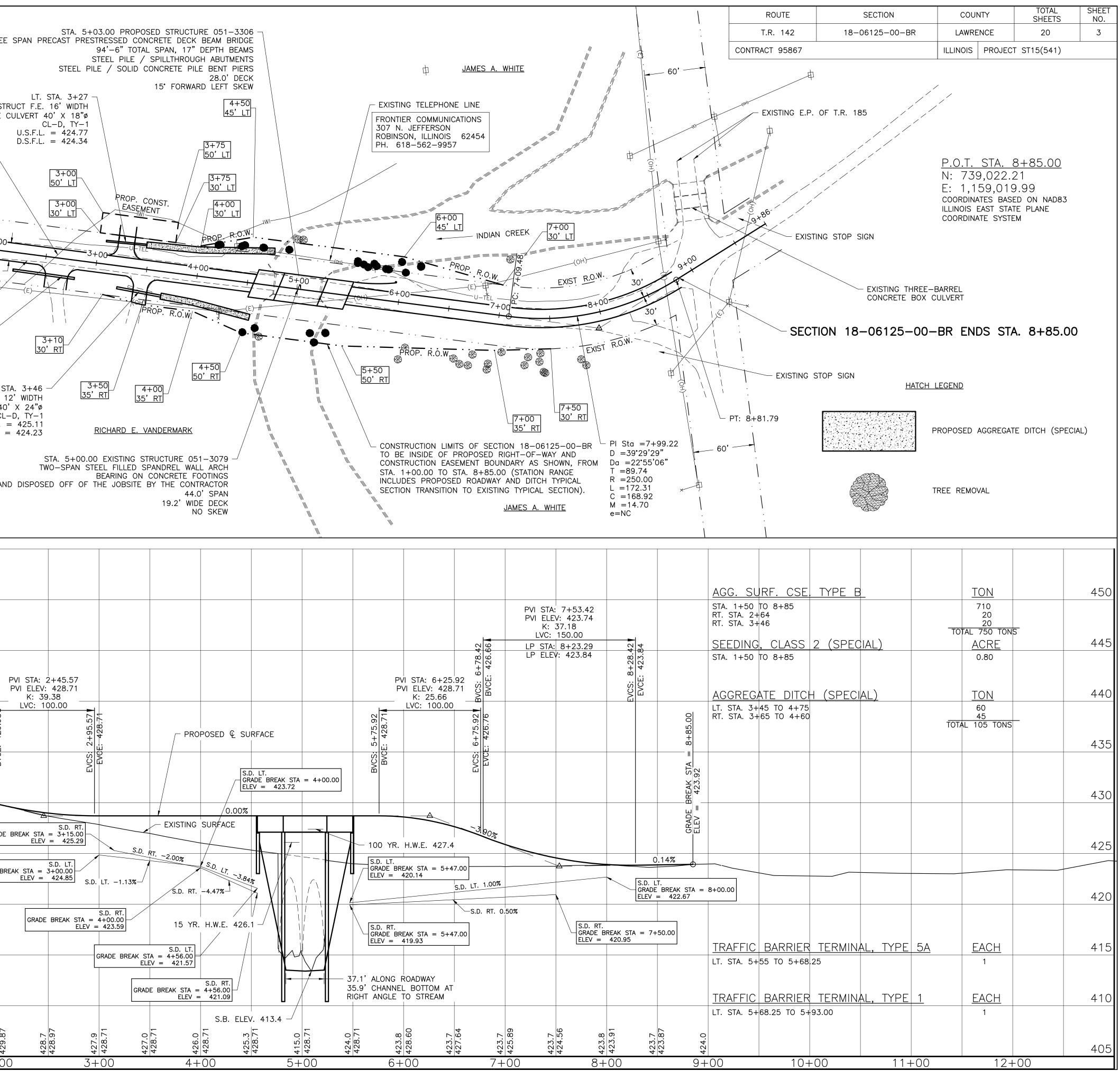
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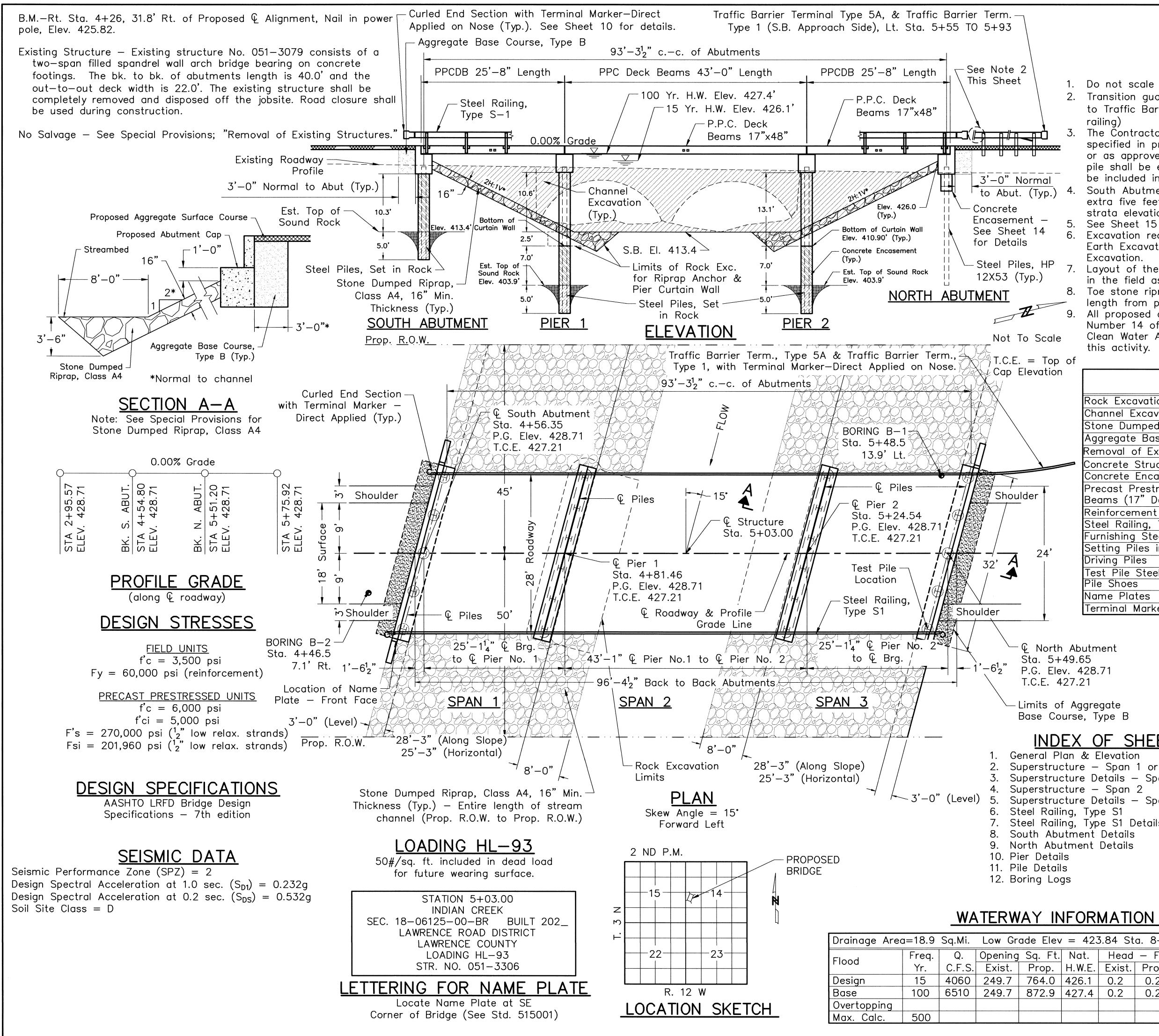
ROUTE	SECTION	cou	VTY	TOTAL SHEETS	SHEET NO.
T.R. 142	18-06125-00-BR	LAWRE	NCE	20	2
CONTRACT 9586	37	ILLINOIS	PROJE	CT ST15(541)	

SUMMARY OF QUANTITIES	UNIT	QUANTITY
II EM	UNIT	QUANTIT
C BARRIER TERMINAL, TYPE 1	EACH	1
NG, CLASS 2 (SPECIAL)	ACRE	0.80
GATE DITCH (SPECIAL)	TON	105
IG PILES IN ROCK	EACH	17
REMOVAL, ACRES	ACRE	0.4
EXCAVATION	CU YD	525
EXCAVATION	CU YD	35
IEL EXCAVATION	CU YD	1025
SHED EXCAVATION	CU YD	920
DUMPED RIPRAP, CLASS A4	TON	700
GATE BASE COURSE, TYPE B	TON	70
GATE SURFACE COURSE, TYPE B	TON	750
AL OF EXISTING STRUCTURES	EACH	1
RETE STRUCTURES	CU YD	129
RETE ENCASEMENT	CU YD	2.1
ST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	2642
RCEMENT BARS	POUND	10,420
RAILING, TYPE S1	FOOT	192
SHING STEEL PILES HP12X53	FOOT	598
G PILES	FOOT	104
PILE STEEL HP12X53	EACH	1
HOES	EACH	4
PLATES	EACH	1
CULVERTS, CLASS D, TYPE 1 18"	FOOT	40
CULVERTS, CLASS D, TYPE 1 24"	FOOT	100
C BARRIER TERMINAL, TYPE 5A	EACH	1
ZATION	L. SUM	1
PANEL - TYPE 2	SQ FT	18
IAL MARKER - DIRECT APPLIED	EACH	4
COPING STEEL SIGN SUPPORT	FOOT	16

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							RODNEY A. M	NEWELL, TRUSTE NEWELL REVOCA	BLE TRUST	THREE	E SI
		1						NEWELL, TRUSTE NEWELL REVOCAE			
	-1	7]		EXISTING WATE	\		
	I						SOUTH LAWRENC RT 1 BOX 246A SUMNER, ILLINOI PH. 812-881-1	S 62460	ORATION	CONST PIPE	
			SECTION	18–0612	5-00-B	R BEGINS	S STA. 1+5	0.00			
	SCALES:						EXISTR.O.	$\langle \rangle$			
	1" = 50'HC 1" = 5'VER					0-	+00 30'	1.00	<u> </u>	· · ·	· _
	<u> P.O.T. ST</u>	<u> 4. 1+50</u>	.00				30'	1+00		2+0(
	N: 738,30 E: 1,158,9					-	EXIST. R.O.W.	— · ·/· ·	18' PROP. SURFACE		
	COORDINATES	STATE PLAN			¢ s	URVEY & CO	NSTRUCTION T.R.	142 —	SURFACE		/
	COORDINATE S	DISIEM					EXISTING OVERHI	FAD FLECTRIC LI			
							NORRIS ELECTRIC ROUTE 130 SOU	C CO-OP	STING -		
		N: 738	<u>[A. 7+99.</u> 8,938.48				NEWTON, ILLINOIS PH. 618–783–8	S 62448	E.P.	/	
		COORDINA	59,060.34 Ates based o	N NAD83				T. STA. 2+64 – .E. 12' WIDTH	CONSTR	RT. S	
			EAST STATE PI ATE SYSTEM	LANE			PIPE CULVER	T 60' X 24"ø CL-D, TY-1	PIPE C		о'х _−D,
								.L. = 426.27 .L. = 425.60		U.S.F.L. D.S.F.L.	
	NOTE: F	PLACE RIPRA	P IN DITCHES	AFTER EXCA	VATION						
						ВМ	. RT. STA. 4+26		to be re	EMOVED AN	1D [
	STA. 1-	+00 TO 1+5	G ROADWAY TO			31.8 NL	8' RT OF PROPO IN POWER POLE		NT		
	INCLUD	ED IN THOSE	E LISTED.				V. 425.82				
450	EARTHW	DRK			CU YD						
	EARTH EXCA CHANNEL EX	VATION (CAVATION			525* 1025**						
445	EMBANKMEN FURNISHED				1475*** 920				0		
			C.Y. EXCAVAT SE, TYPE B. C)		+50.0		
110	STRUCTURES ALSO INCLU	INCLUDED DES 45 C.Y.	IN ITEM "EART OF OVERDIG ION SHEETS [H EXCAVATIO FOR RIPRAP	N." EARTH E DITCHES. VO	CAVATION QU			A = 1		PVI PV
440	**IT IS ESTI	MATED THAT	215 C.Y. OF	CHANNEL EX	CAVATION WI	L BE SUITAE			AK ST 31.14	57 98	_
	CONTRACTOR		ADDITIONAL 15						DE BREAK = 431	+95. 429.	
435	STA. 3+46.	VOLUME Q	UANTITIES SHO VAL EMBANKME	WN ON CRO	SS SECTION				GRADE ELEV =	BVCS: 1 BVCE:	
430	TREE RE	00 TO 8+85	5			<u>ACRE</u> 0.3				2.54%	_
	RT. STA. 4+	50 TO 5+40			TO	0.1 TAL 0.4 ACR	ËS			GRADE	BRI
425	<u>PIPE CU</u> Lt. sta. 3+		CLASS D), TYPE ⁻	<u>1 18"</u>	<u>FOOT</u> 40					
										GRADE BI	REAK
420	<u>PIPE CU</u> rt. sta. 2+		CLASS D	, TYPE	<u>1 24"</u>	<u>FOOT</u> 60					
	RT. STA. 2+ RT. STA. 3+				TO	60 40 TAL 100 FOC	DT T				
415	<u>SIGN PA</u>					<u>SQ FT</u>					
	RT. STA. 0+	00 – W8–	18 (36 X 36)		18.0					
410	TELESCO	PING ST	EEL SIGN	SUPPOR	<u>27</u>	<u>F00T</u>					
	RT. STA. 0+	00				16.0					
405									431.1 431.14	429.8 429.87	1
	3+00	-2	+00	-1-	+00	0+	-00	1+00	4	2+0	





ROUTE	SECTION	COUI	NTY	TOTAL SHEETS	SHEET NO.
T.R. 142	18-06125-00-BR	LAWRENCE		20	4
CONTRACT 958	57	ILLINOIS	PROJE	CT ST15(541)	

GENERAL NOTES

- 1. Do not scale sheets 4-15.
- 2. Transition guardrail from bridge rail height (23" top of deck beam to Q railing) to Traffic Barrier Terminal Type 5A height (21" finished ground line to & terminal railina)
- The Contractor shall drive the test pile to 110% of the nominal required bearing specified in production locations at the North Abutment as shown on the plans or as approved by the Engineer before ordering the remainder of piles. The test pile shall be equipped with a steel pile shoe, and the cost of the pile shoe shall be included in item Test Pile Steel HP 12 X 53.
- South Abutment and Pier pile lengths are Engineer's estimate and include an extra five feet for each pile to ensure proper setting of piles into various rock strata elevations.
- 5. See Sheet 15 for boring logs.
- 6. Excavation required to construct the Abutments shall be included in the cost of Earth Excavation. No additional compensation will be allowed for Structure Excavation.
- 7. Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
- 8. Toe stone riprap treatment as shown in Section A-A shall extend entire channel length from proposed R.O.W. West to proposed R.O.W. East.
- 9. All proposed construction activities shall be in acordance with Nationwide Permit Number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act. The IEPA has issued Section 401 Water Quality Certification for this activity.

TOTAL BILL OF MATERIAL

Item	Unit	Super	Su		Tota
			Piers	Abuts.	
Rock Excavation	Cu. Yd.	_	35	_	35
Channel Excavation	Cu. Yd.			1025	1025
Stone Dumped Riprap, Class A4	Tons			700	700
Aggregate Base Course, Type B	Tons	_	_	70	70
Removal of Existing Structures	Each		-		1
Concrete Structures	Cu. Yd.	_	96.6	32.4	129.
Concrete Encasement	Cu. Yd.	_		2.1	2.1
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2642	_	—	2642
Reinforcement Bars	Pound		6240	4180	10,42
Steel Railing, Type S1	Foot	192			192
Furnishing Steel Piles HP 12 X 53	Foot		384	214	598
Setting Piles in Rock	Each	_	12	5	17
Driving Piles	Foot	-	—	104	104
Test Pile Steel HP 12 X 53	Each			1	1
Pile Shoes	Each	_		4	4
Name Plates	Each	-		1	1
Terminal Marker — Direct Applied	Each	4			4

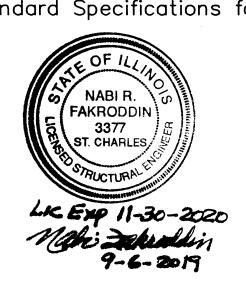
🗘 North Abutment P.G. Elev. 428.71

- Limits of Aggregate Base Course, Type B 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 Specifications for Highway Bridges.

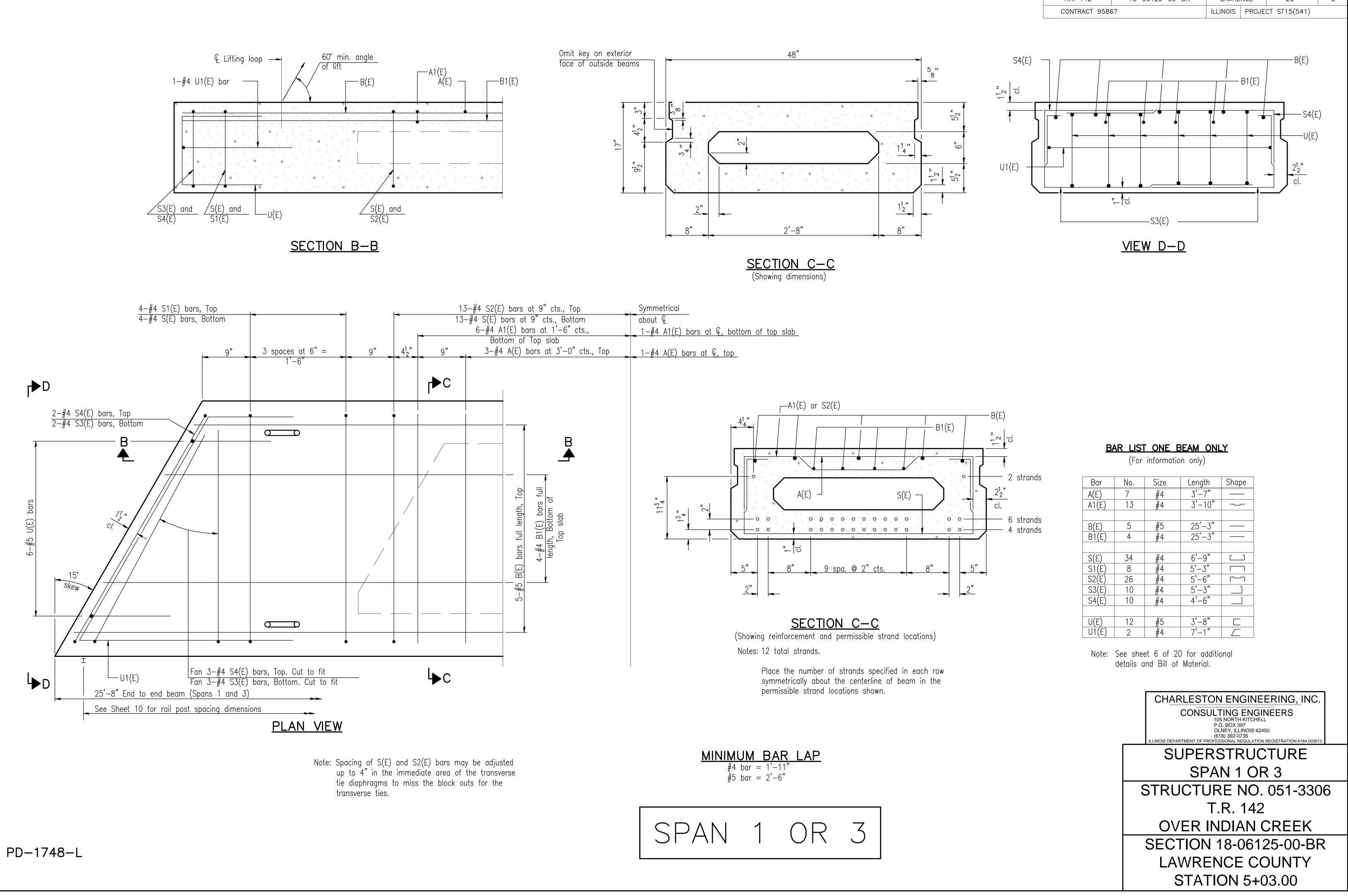
INDEX OF SHEETS

General Plan & Elevation Superstructure – Span 1 or 3 Superstructure Details - Span 1 or 3 Superstructure - Span 2 Superstructure Details - Span 2 Steel Railing, Type S1 Steel Railing, Type S1 Details South Abutment Details 9. North Abutment Details

v = 423.84 Sta. 8+23.29							
Nat.	Head	– Ft.	Headwa	ter El.			
H.W.E.	Exist.	Prop.	Exist.	Prop.			
426.1	0.2	0.2	426.3	426.3			
427.4	0.2	0.2	427.6	427.6			
	Nat. H.W.E. 426.1	Nat.HeadH.W.E.Exist.426.10.2	Nat.Head- Ft.H.W.E.Exist.Prop.426.10.20.2	Nat.Head- Ft.HeadwaH.W.E.Exist.Prop.Exist.426.10.20.2426.3			

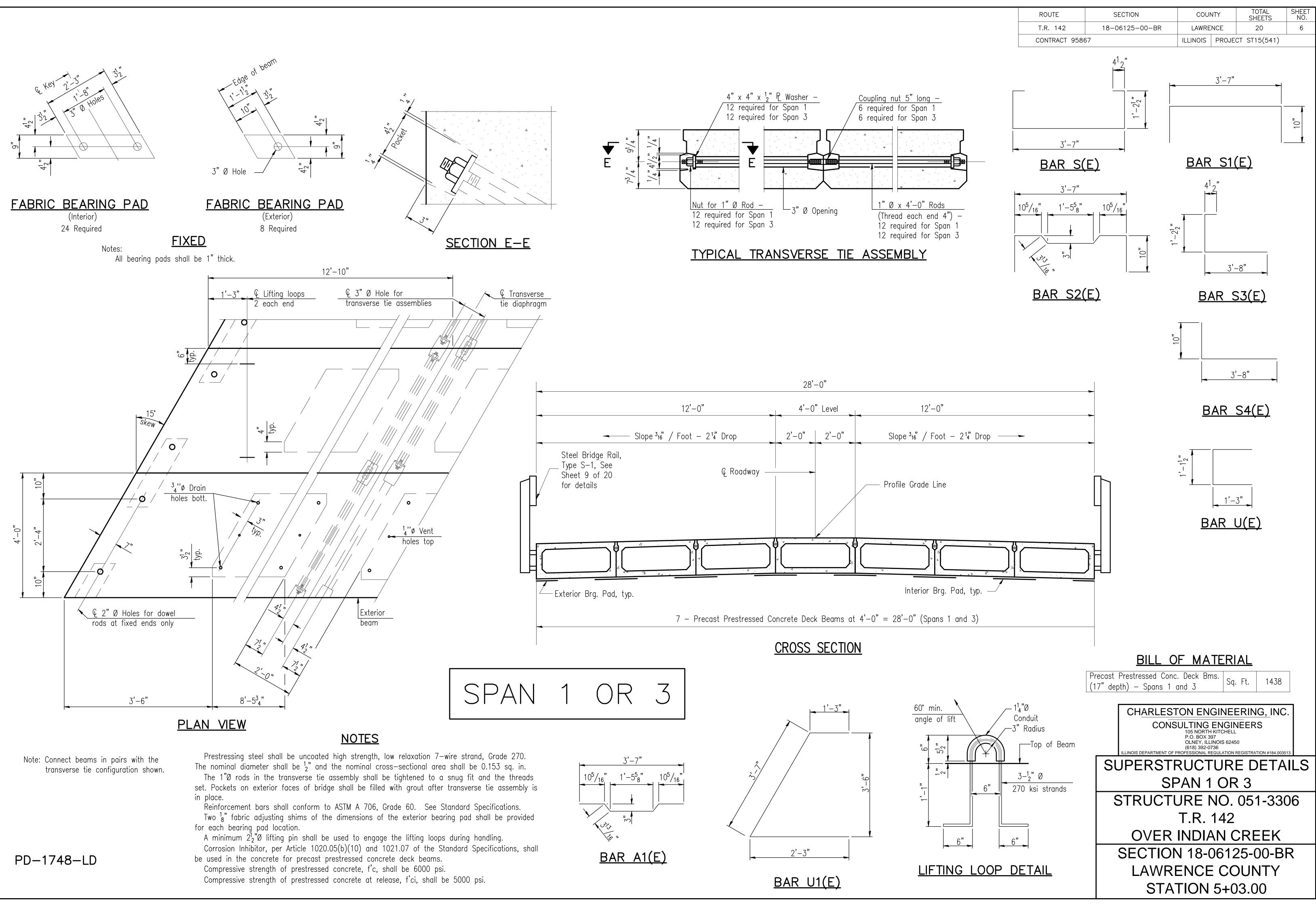


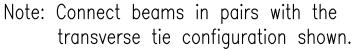


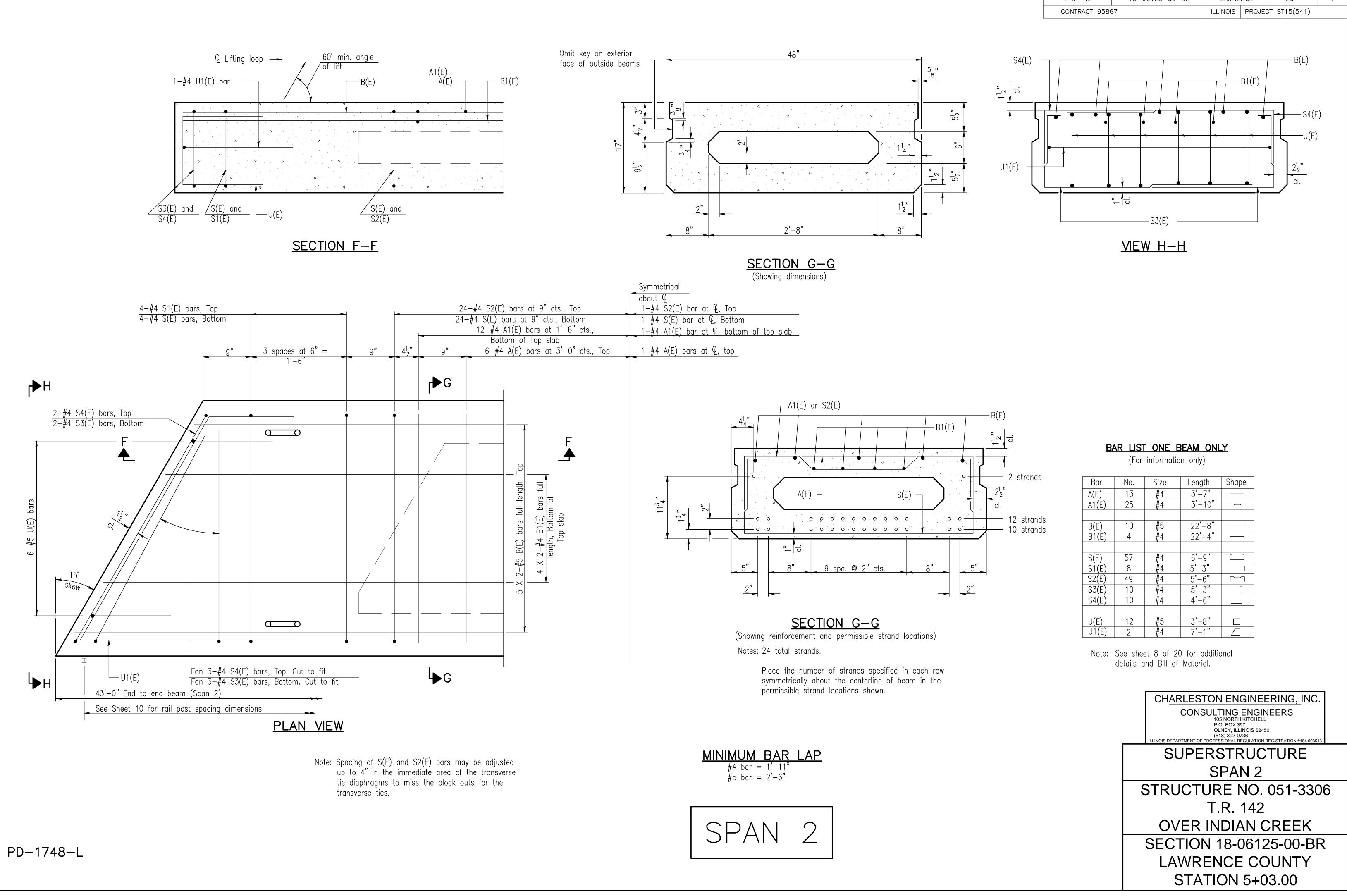


ROUTE	SECTION	COUNTY		TOTAL SHEETS	SHEET NO.
T.R. 142	18-06125-00-BR	LAWRE	INCE	20	5
CONTRACT 9586	57	ILLINOIS	PROJE	CT ST15(541)	

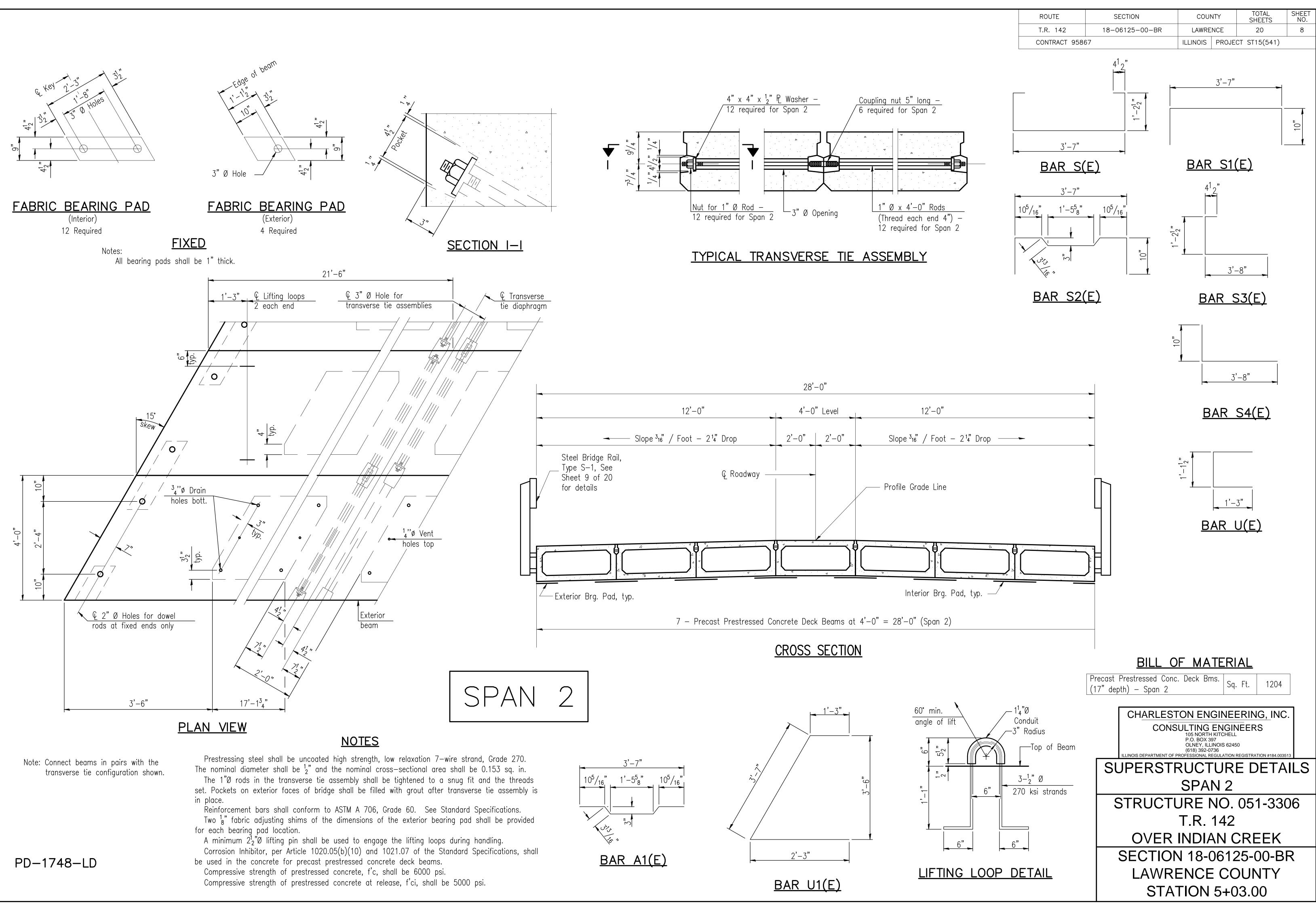
S(E)	34	#4	6 ' -9"	
S1(E)	8	#4	5'-3"	
S2(E)	26	#4	5'-6"	
S3(E)	10	#4	5'-3"	
S4(E)	10	#4	4'-6"	
U(E)	12	#5	3'-8"	
U1(E)	2	#4	7'-1"	\square

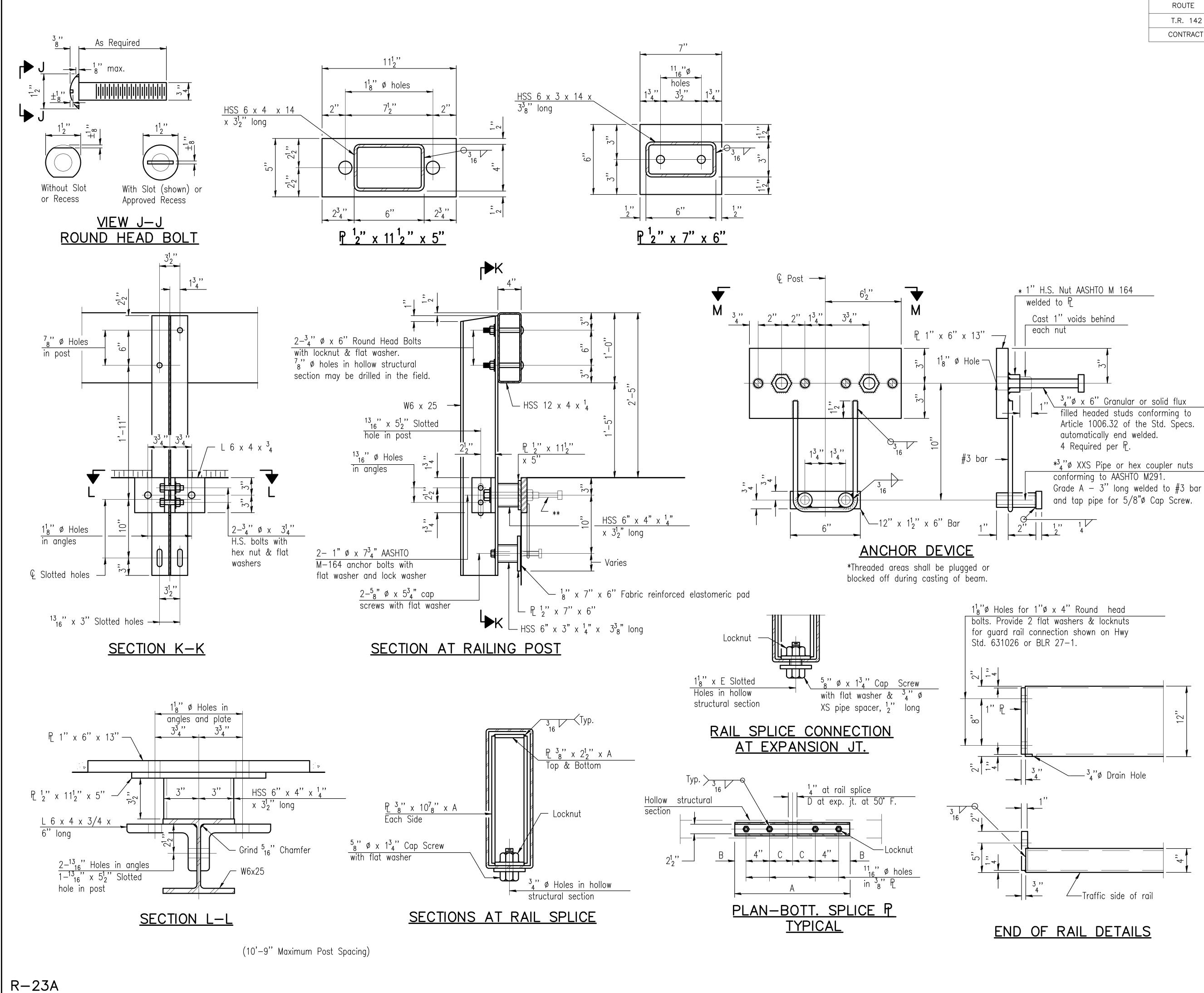






ROUTE	SECTION	COUI	NTY	TOTAL SHEETS	SHEET NO.
T.R. 142	18-06125-00-BR	LAWRE	INCE	20	7
CONTRACT 9586	67	ILLINOIS	PROJE	CT ST15(541)	





ROUTE	SECTION	COUI	NTY	TOTAL SHEETS	SHEET NO.
T.R. 142	18-06125-00-BR	LAWRE	INCE	NCE 20	
CONTRACT 9586	57	ILLINOIS	PROJE	CT ST15(541)	-

SPLICE DIMENSIONS

Т	D	A	В	С	E
≤4"	2 ¹ ''	1'-8''	2"	4"	2 ¹ ₂ "
>4 " $\leq 6_2^1$ "	3 ³ ,'	2'-0''	2 ¹ ₂ ''	5 ¹ ''	3_2^{1} "
$>6_2^{1}^{1}^{1} \le 9^{2}$	5"	2'-4''	3 ¹ ''	6 ¹ ''	9"
$>9^{"} \le 13"$	7"	2'-10''	4 ¹ ''	8 ¹ ''	11"
Rail Splice	1 '' 4	1'-8''	2"	4''	

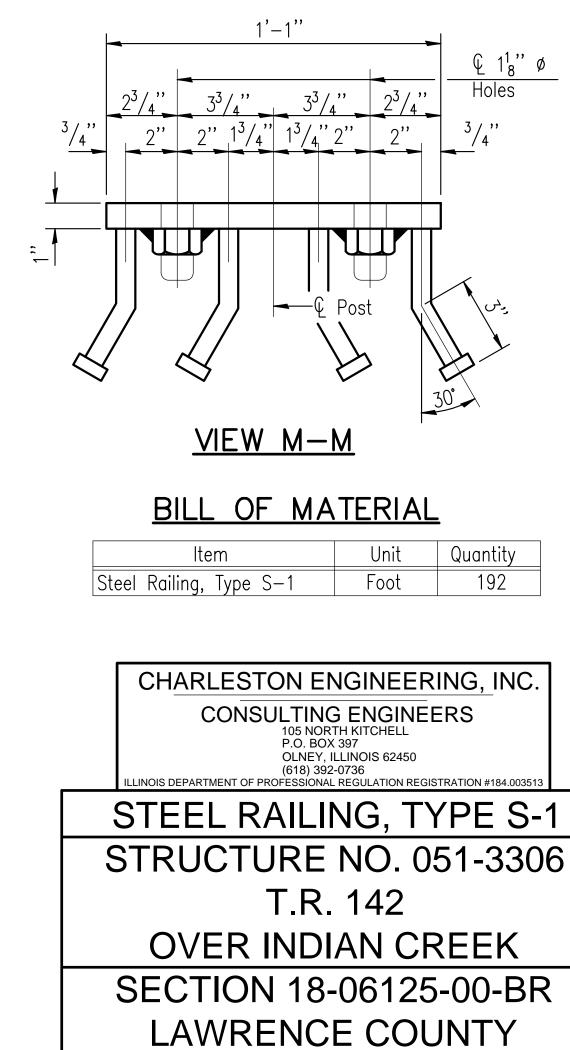
T = Total movement at expansion joint as shown on the design plans.

Notes:

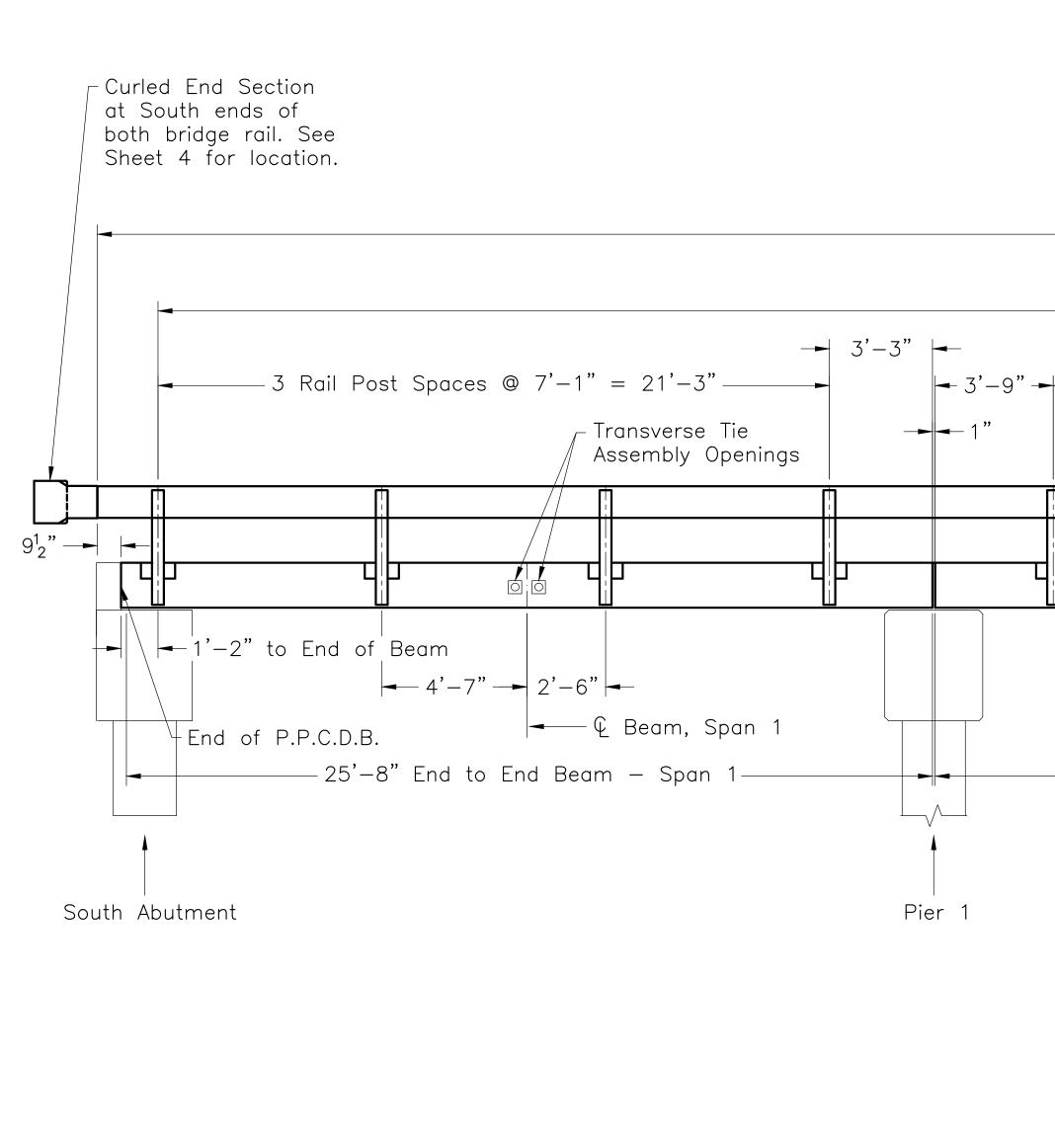
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.

All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



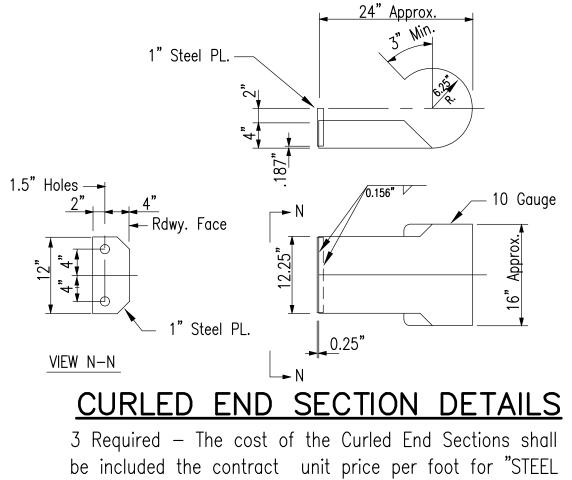
STATION 5+03.00



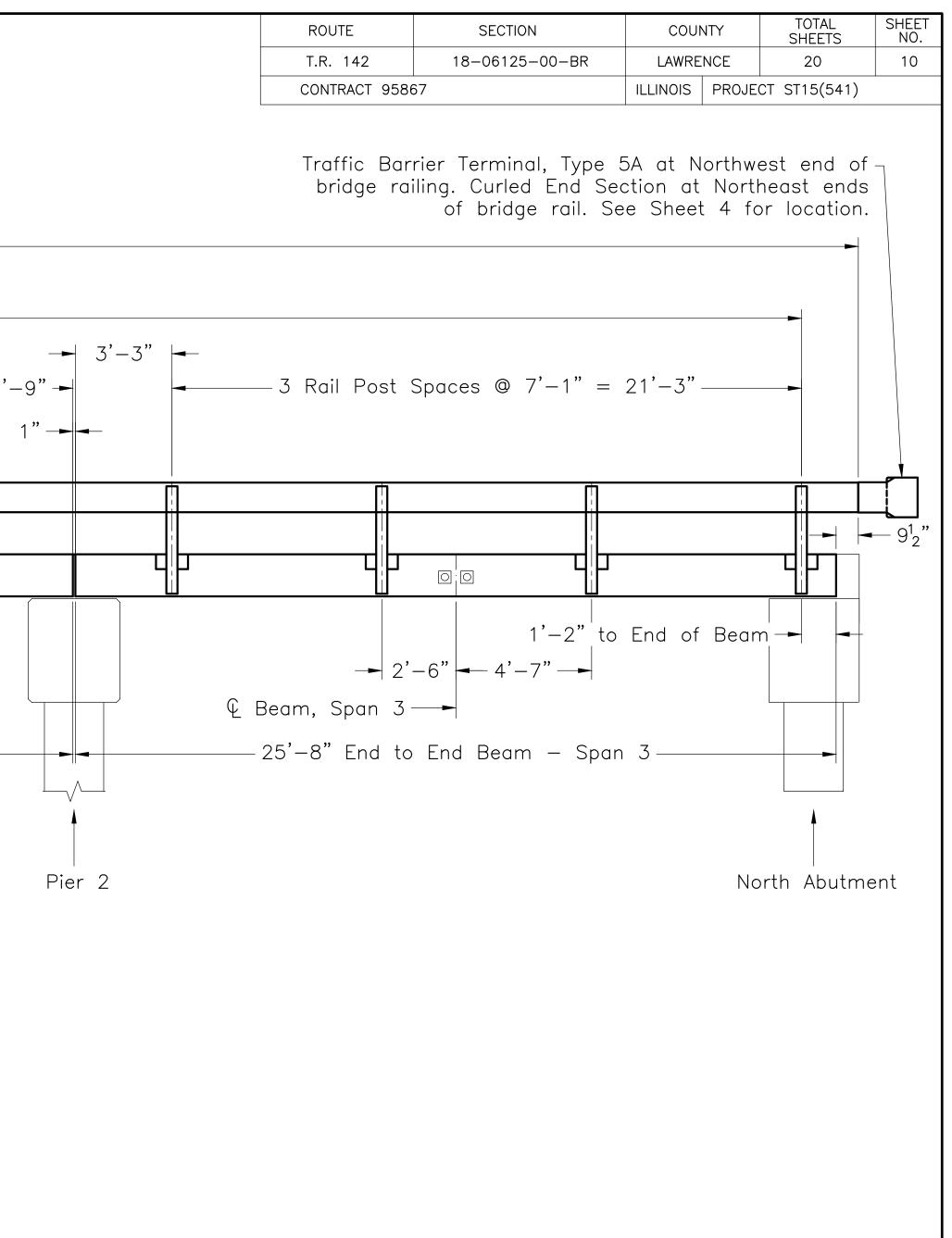
	€ Beam, Span 2 —►	
	96'-0" End to End Rail	
	13 Rail Post Spaces @ 7'-1" = 92'-1"	
	5 Rail Post Spaces @ 7'-1" = 35'-5"	 3'
	- Steel Railing, Type S1	
Ū.		Ţ.
Ш	$-7'-1" (TYP.) - 3'-6^{1}_{2}" - 3'-6^{1}_{2}" - 17"D \times 48"W P.P.C.D.B. (Typ.)$	
	43'-0" End to End Beam - Span 2	

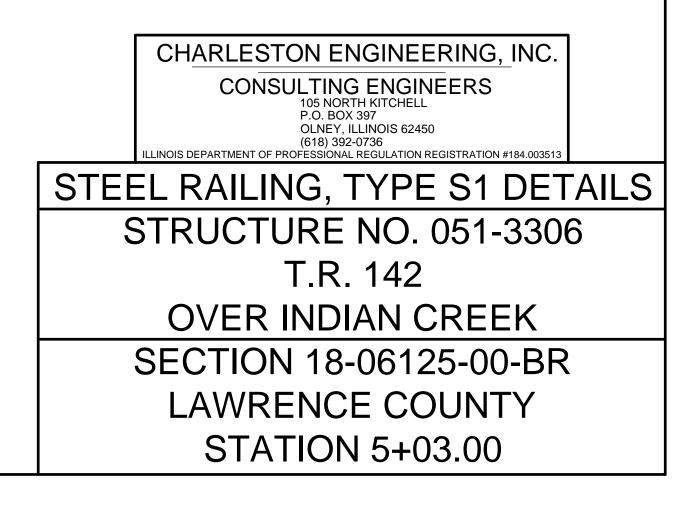
RAIL POST SPACING - EAST ELEVATION

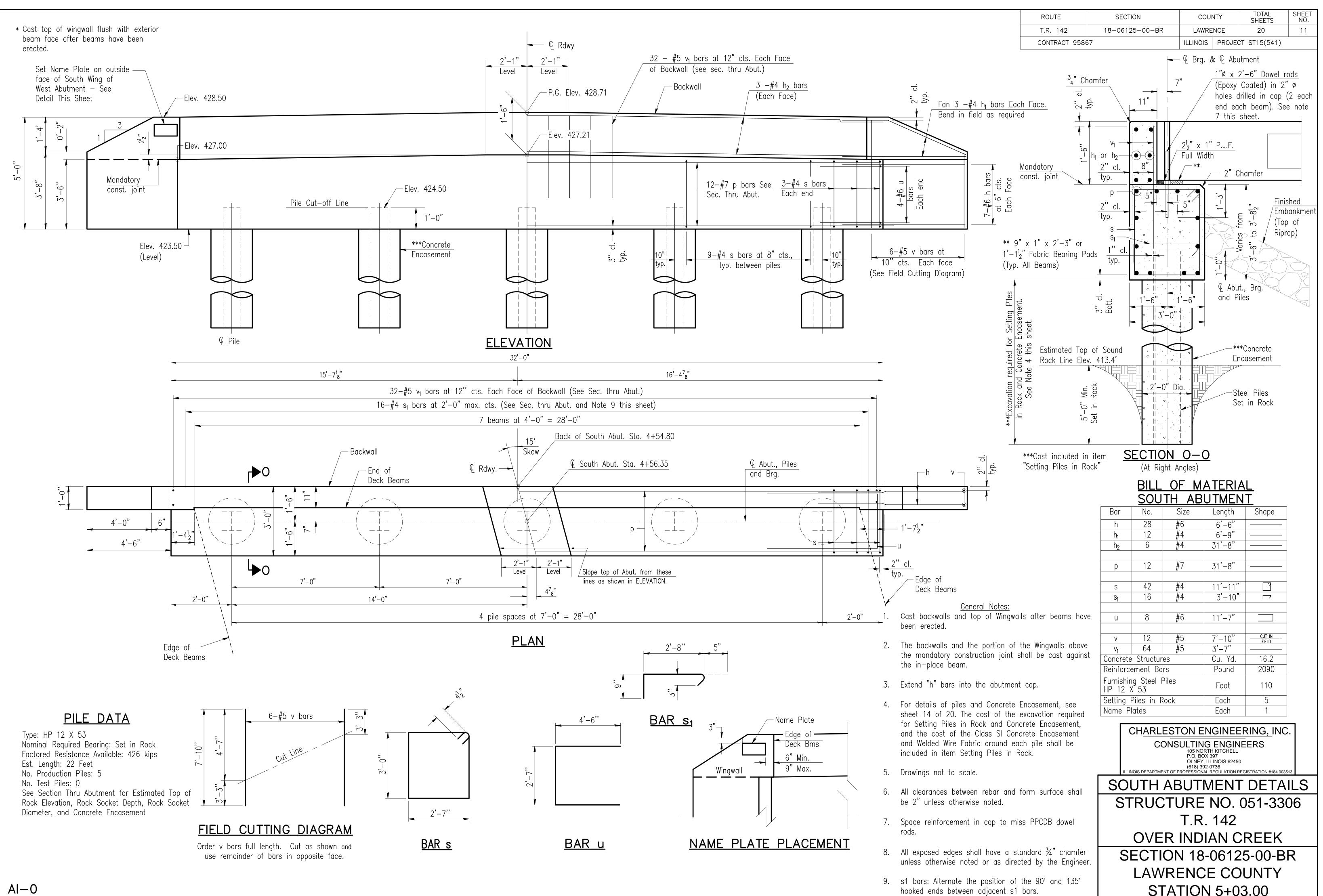
Not to Scale



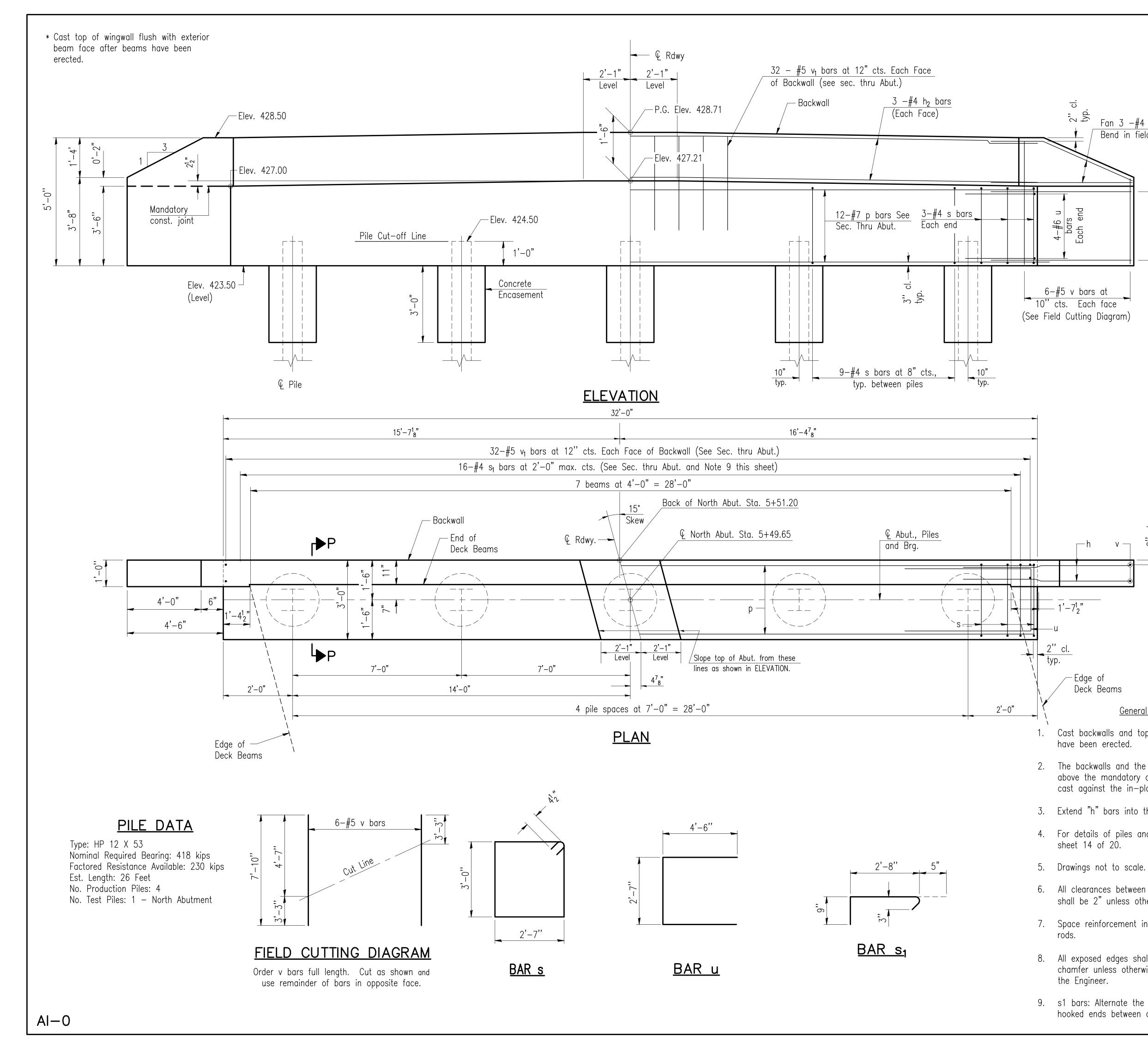
be included the contract unit price per foot for "STEEL RAILING, TYPE S1", and no additional compensation will be allowed.

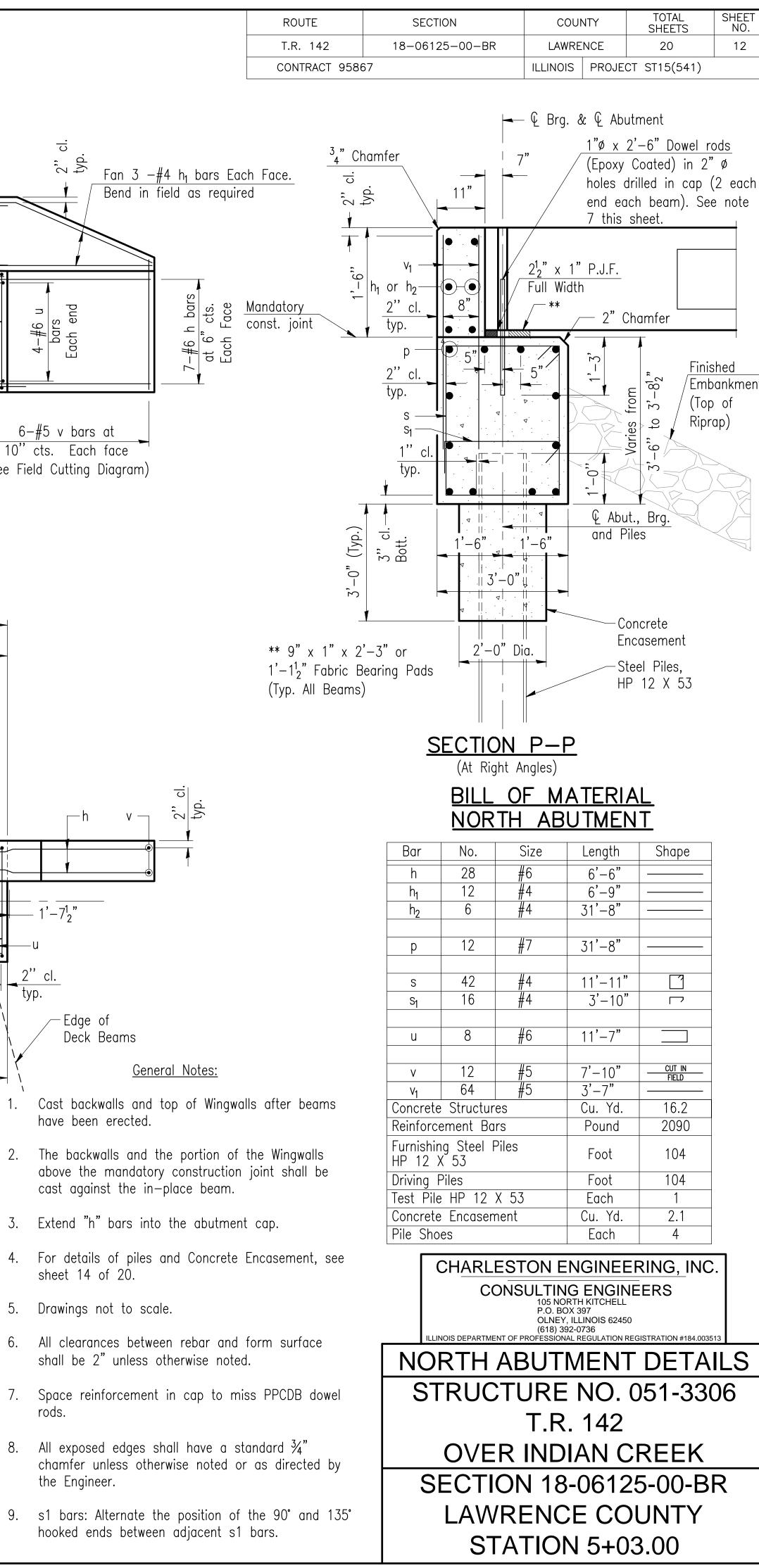


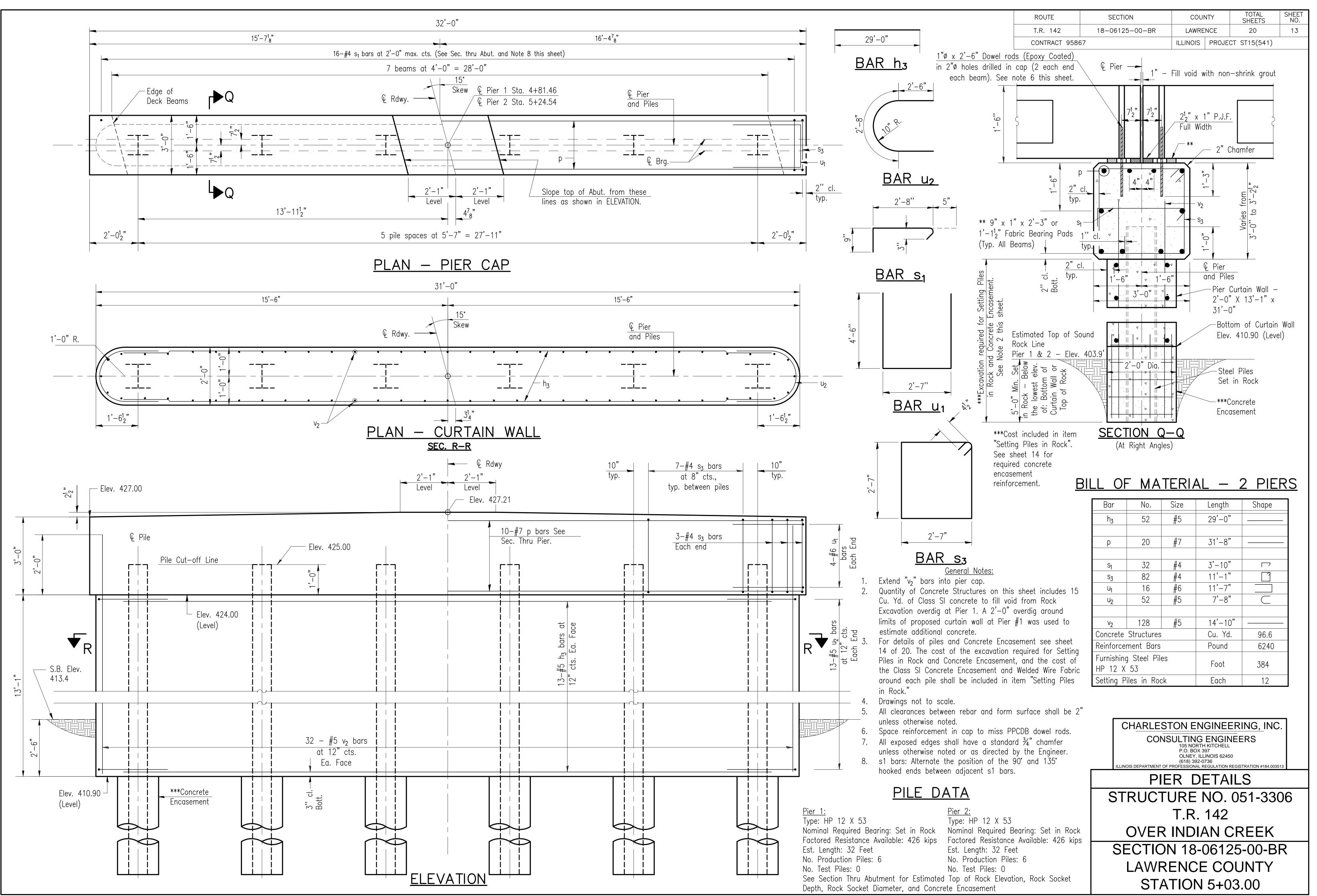


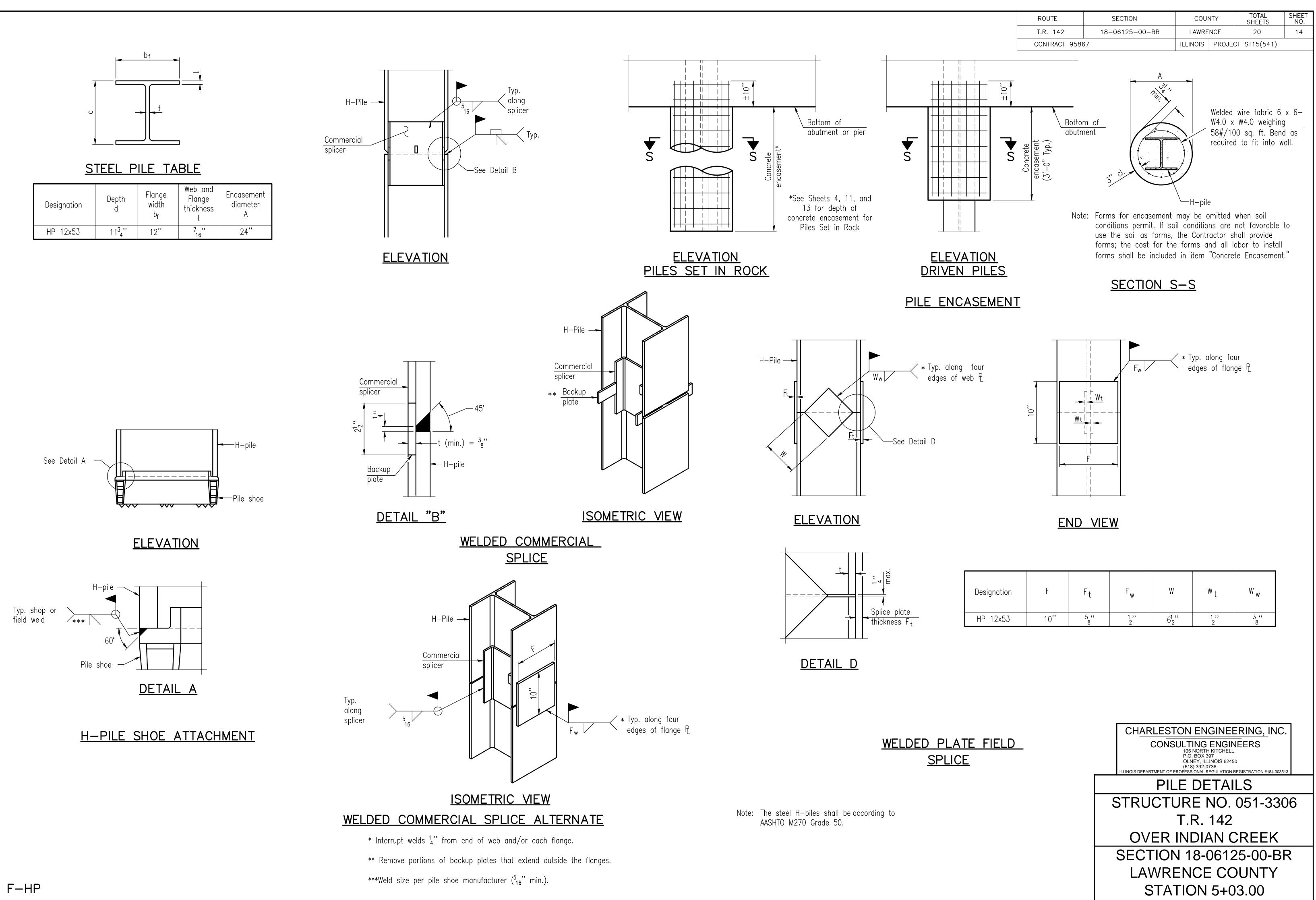


STATION 5+03.00







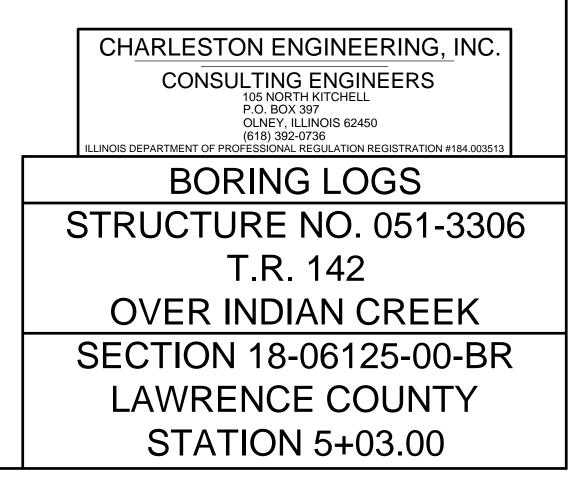


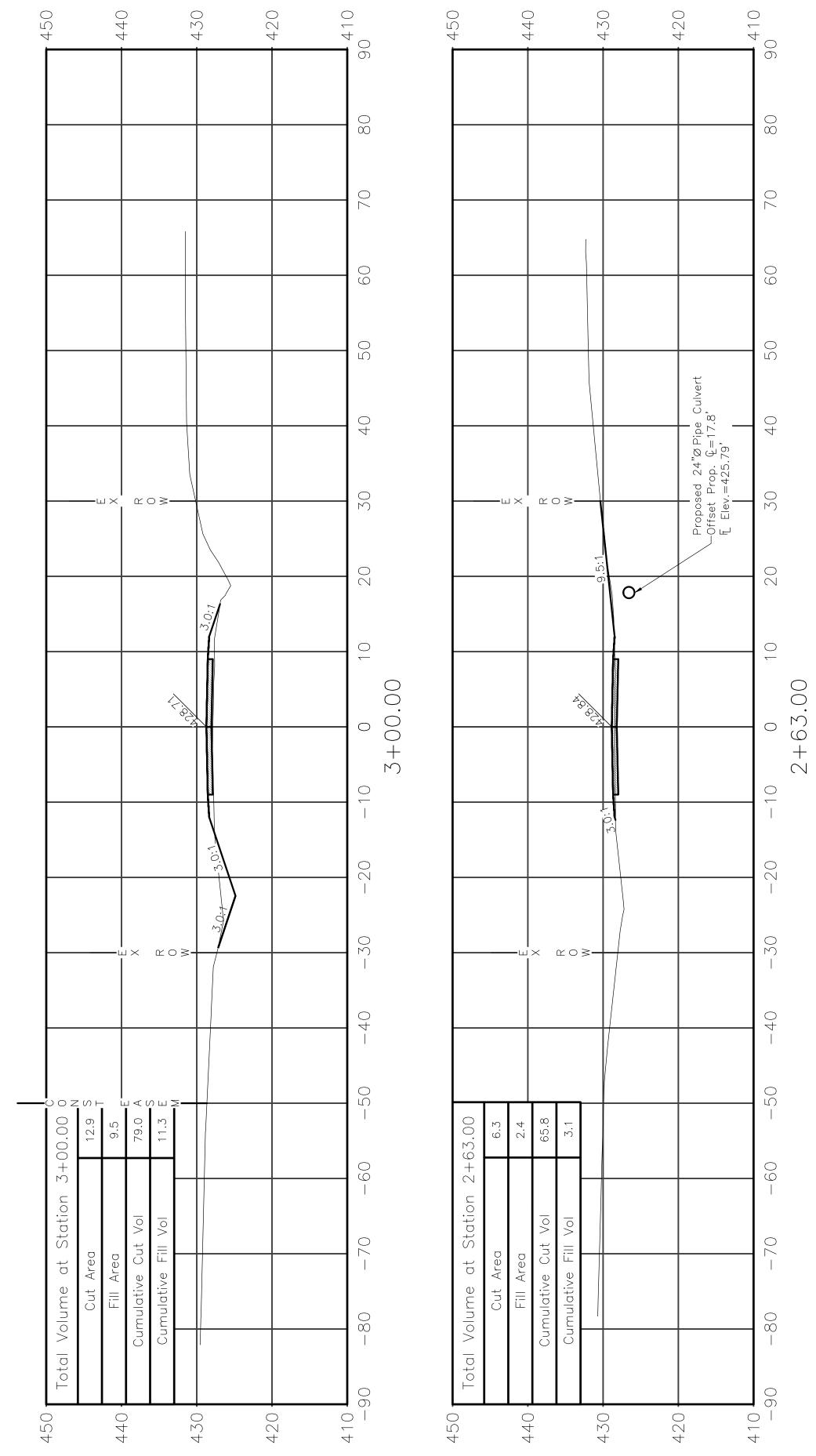
N	OB.	LE					BORING No. B-1	water leve	reading
ENGINEERING CONSULTANTS		County: Lawrence, IL			Sheet No. 1 of 1	1st encounter: Dry			
DEL 10/24/07/07/90/20	C1211A0 112 10011131=	eston Engi		Weather: Sunny Date Start: 11-13-18			Temperature: 30's	water leve	Netter (Designation 199
							Surface Elevation: 423.7**	@completion	
	Location: Sec. #18-06125-00-BR			Date Finished: 11-13-18			Driller: Tony Schocker	Backfill:	Soil cuttings
			N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	USC Class,	Elev.**
1	Yadamarkan.				1 ,	(0.)			422.7
.		40	~			-	0.0'-9.5' Silt, Clay, Etc. FILL		722./
2	SS-1	1.0'-2.5'	19	4-7-12	20			FILL	421.7
3		-				-			
•		-							420.7
4	SS-2	3.5'-5.0'	22	9-11-11	80			FILI	419.7
-	÷		·		-				419.7
5						5			410.7
6	SS-3	6.0'-7.5'	17	8-8-9	80			FILL	417.7
7									416.7
						i T			10 Decourse
8									415.7
9	SS-4	8.5'-10.0'	10	5-8-2	100	0.8	9.5'-12.0' CLAY, trace to some sand, medium stiff, gray	сн	414.7
- 0							modium oun, gray		413.7
10		ī.	P			4.1 17			412.7
11	<u>.</u>	14							412.7
12						0			
13	<u></u>	Î			0	-			410.7
14	SS-5	13.5'-15.0'	22	4-10-12	100	3.4	12.0'-17.1' SILTY CLAY, trace to some sand, very stiff, light brown	CL	409.7
15	ē	J							408.7
1 6						4		_	407.7
17	-								406.7
18		1	1			4		_	405.7
19	SS-6	18.5'-20.0'	100+	100/2"	100	-	17.1'-19.8' HIGHLY WEATHERED SHALE	-	404.7
20			2				AR 19.8'		403.7
21									
22		13	13						
23									
24									
25	27					1			
26									
27	<u>.</u>								
28									
29	2								
30									
Drillina I	 Method: H:	 SA (2-1/4" id)		comments	* On test is :	 an estimate	of the unconfined compressive strength performed		
67 5)' to 19.8'	T	5.				spring loaded cylinder		
	Mobile B-						tion at boring location is estimated from bridge deck		
Samplin	1				100.0 and is				

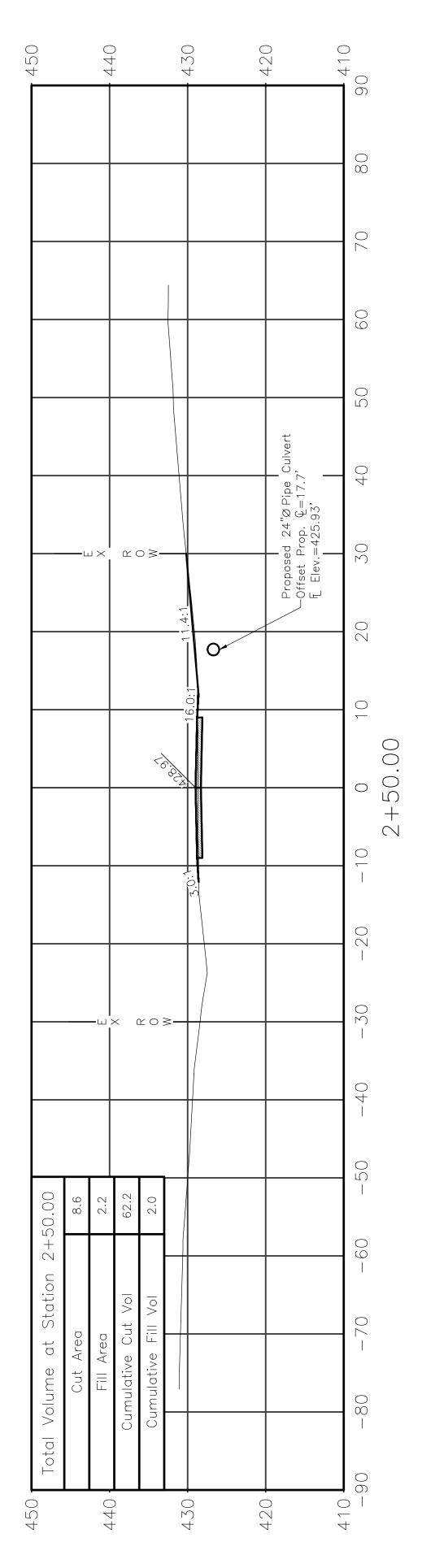
		LE					BORING No. B-			
ENG	NEER.	ING CON	ISULTANTS	County:	Lawrence	e, IL	Sheet No. 1 of 1			
Client	: Charle	eston Engi	ineering	Weathe	r: Sunny		Temperature: 30's Surface Elevation: 425.3			
		2.2	ring Consultants		art: 11-13	ST DIRECTOR AVE.				
Location: Sec. #18-06125-		125-00-BR	Date Fir	nished: 11	l-13-18	Driller: Tony Schocker				
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description			
1		1) 10								
2	SS-1	1.0'-2.5'	14	3-5-9	40		0.0'-3.5' Silt, Clay, Etc. FILL			
3			ii.							
4	SS-2	3.5'-5.0'	12	4-5-7	80	1.0				
5			<u>,</u>			<u>.</u>				
6	SS-3	6.0'-7.5'	13	4 -6- 7	80	1.1	3.5'-8.2' SILTY CLAY, trace to sand, stiff, brown			
7	ř		~							
8	1	2				1				
9	SS-4	8.5'-10.0'	10	47-100/2"	80	-	8.2'-11.9' HIGHLY WEATHEREI			
10										
11										
12							AR 11,9'			
13		54	2	с.						
14						4				
15		T ₁								
1 6		~				4				
17	-					-				
18			1			16				
1 9										
20										
21	()	52	3		2					
22 23				-	20					
24	ia.				0	-22				
25	5		5		25	2				
26	1 kin.	£	4 <u>.</u>							
27			0							
28	2 ¹	12.								
29	0) 192); 							
30										
Drilling	Method: H	SA (2-1/4" id)		comments	* Qp test is	an estimate	of the unconfined compressive stren			
Depth: (0' to 11.9'				by a compac	t calibrated	spring loaded cylinder			
Drill Ria	: Mobile B-	47					ition at boring location is estimated fr			
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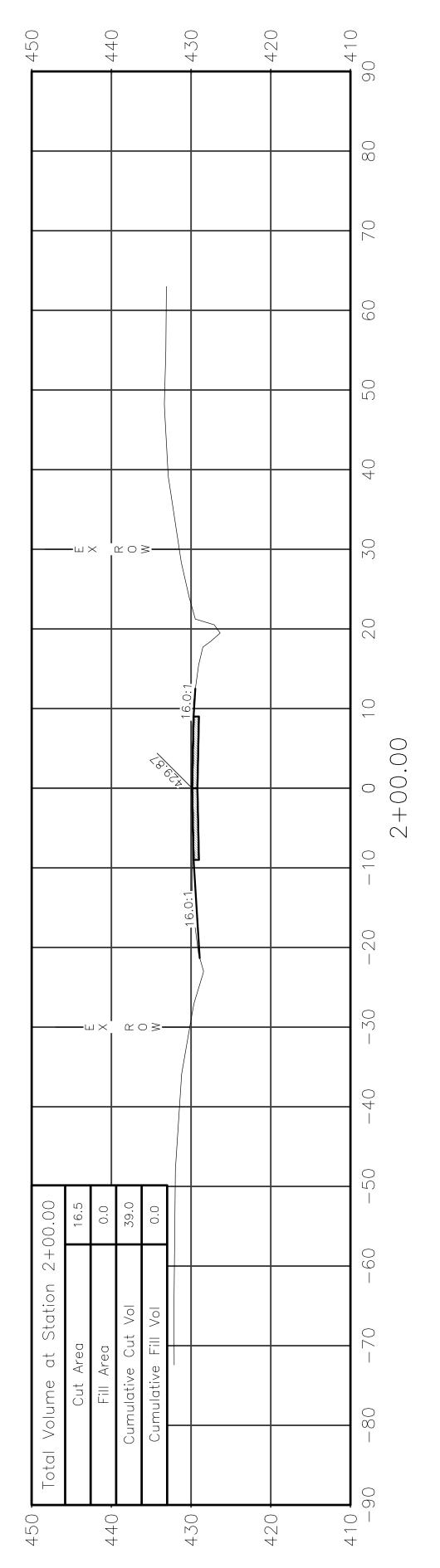
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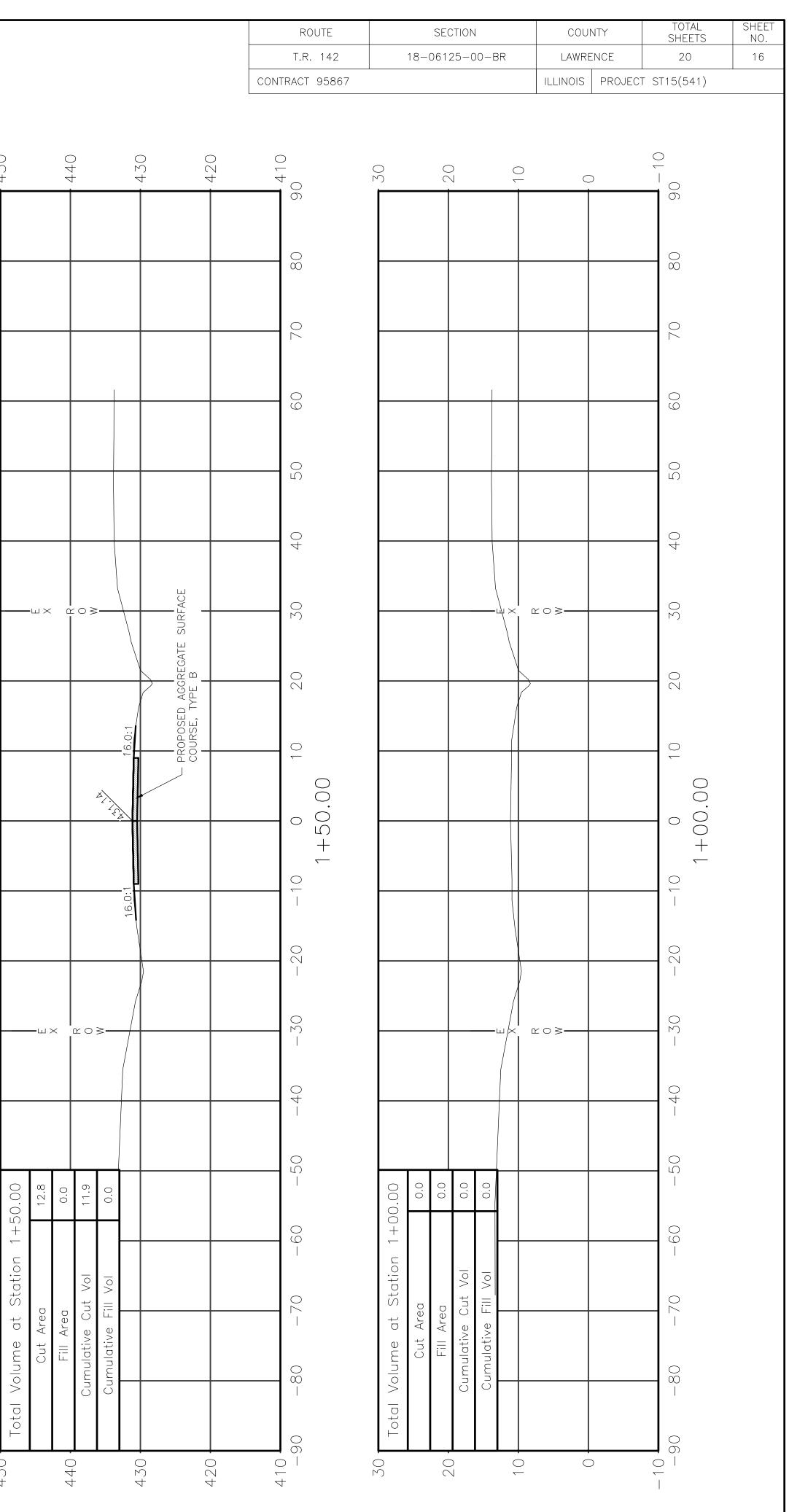
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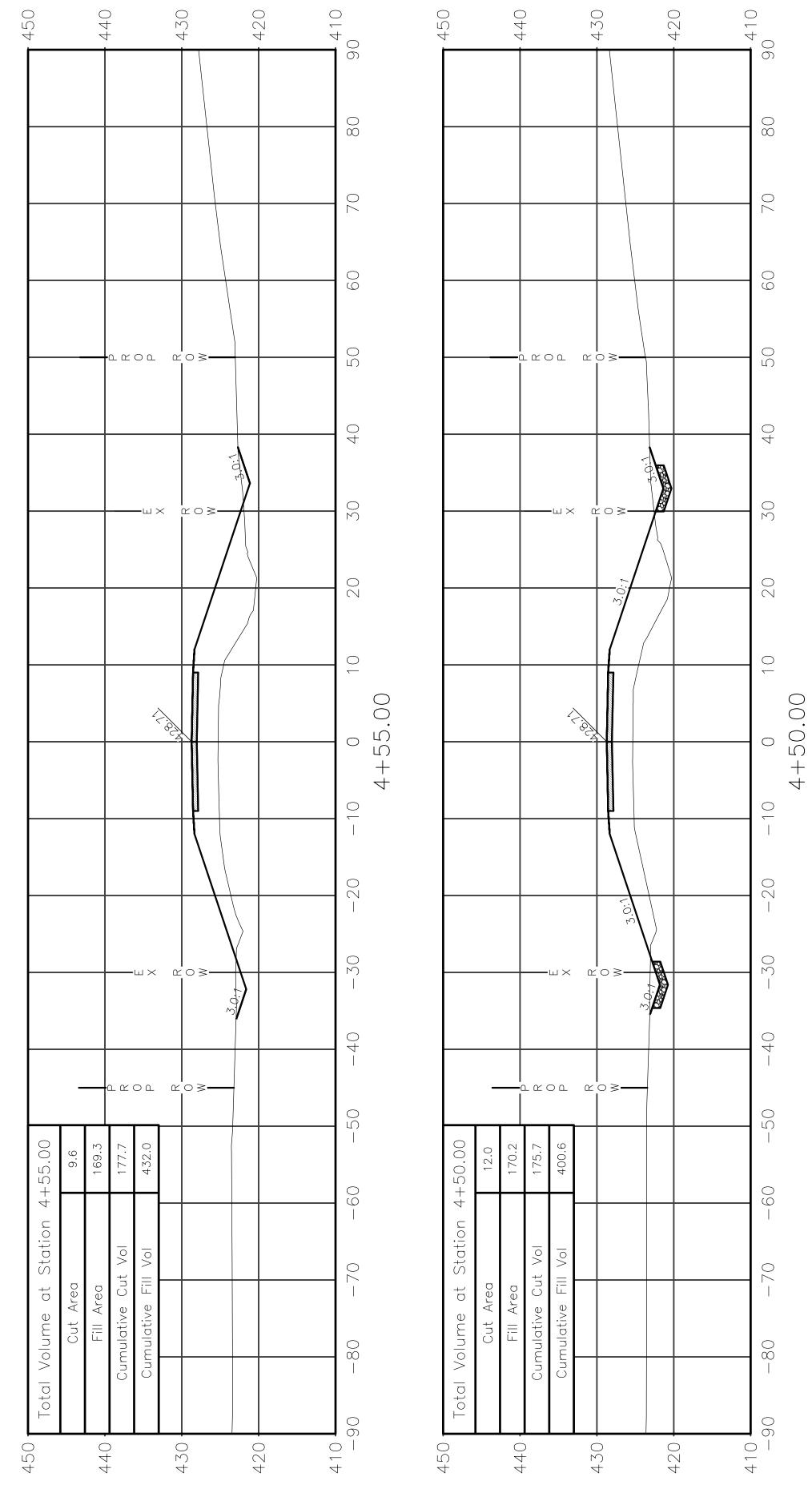




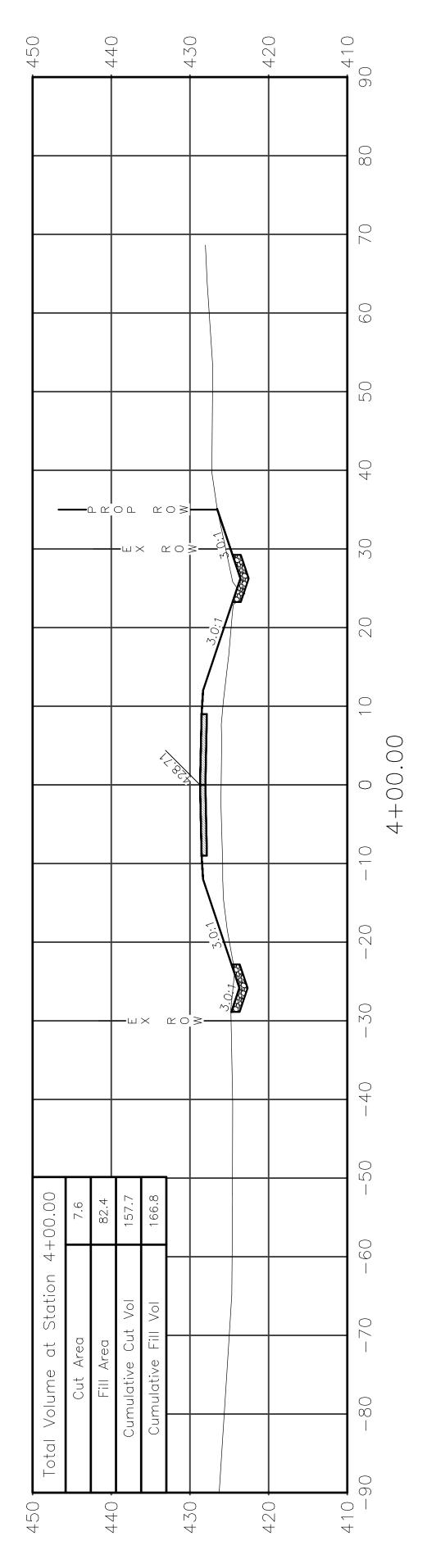


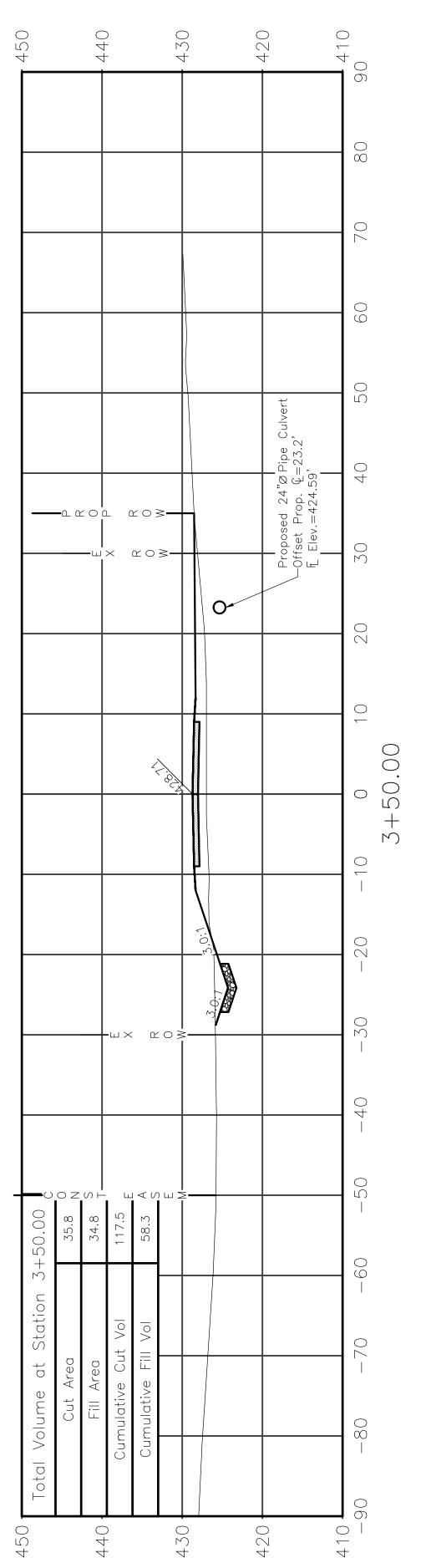


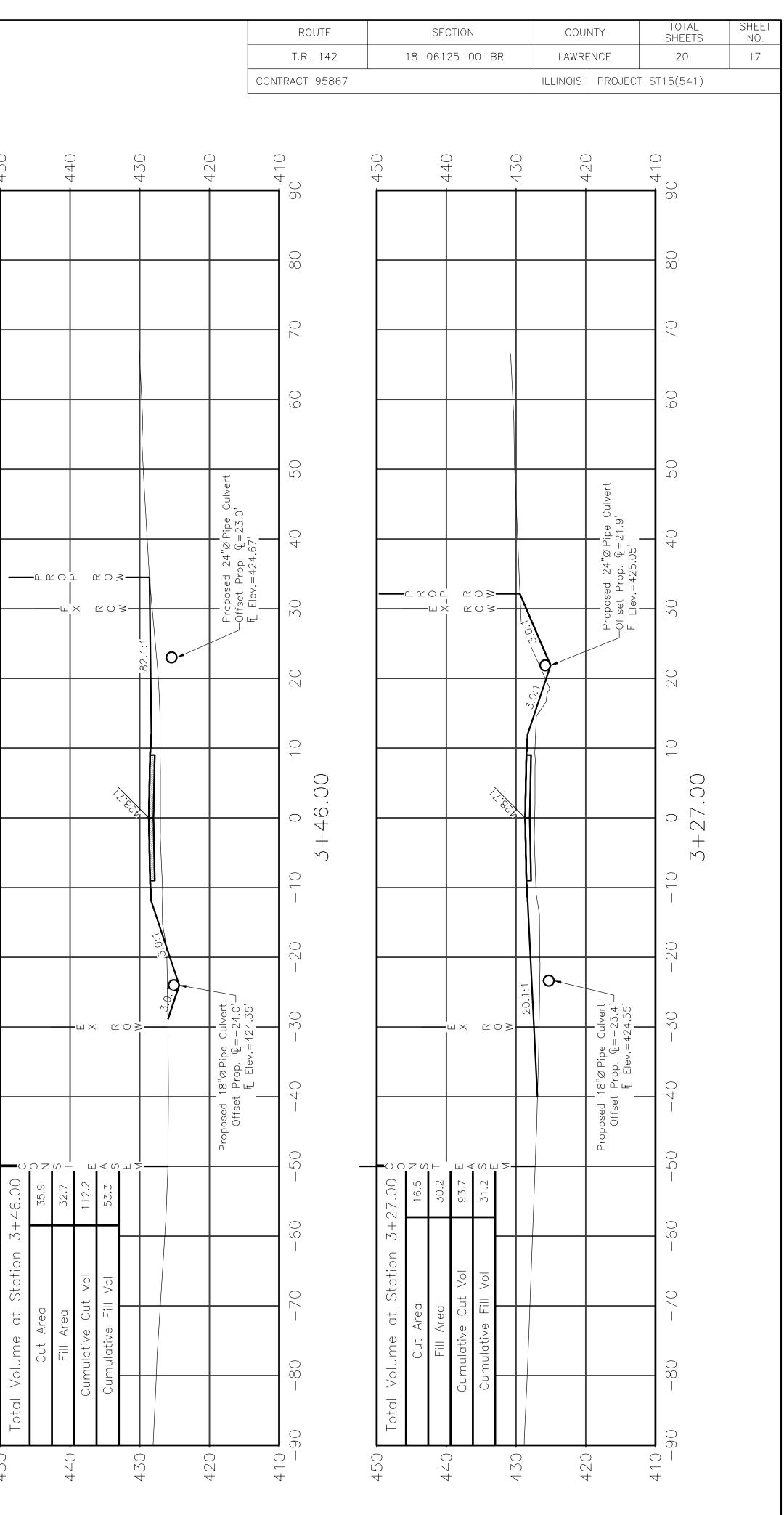


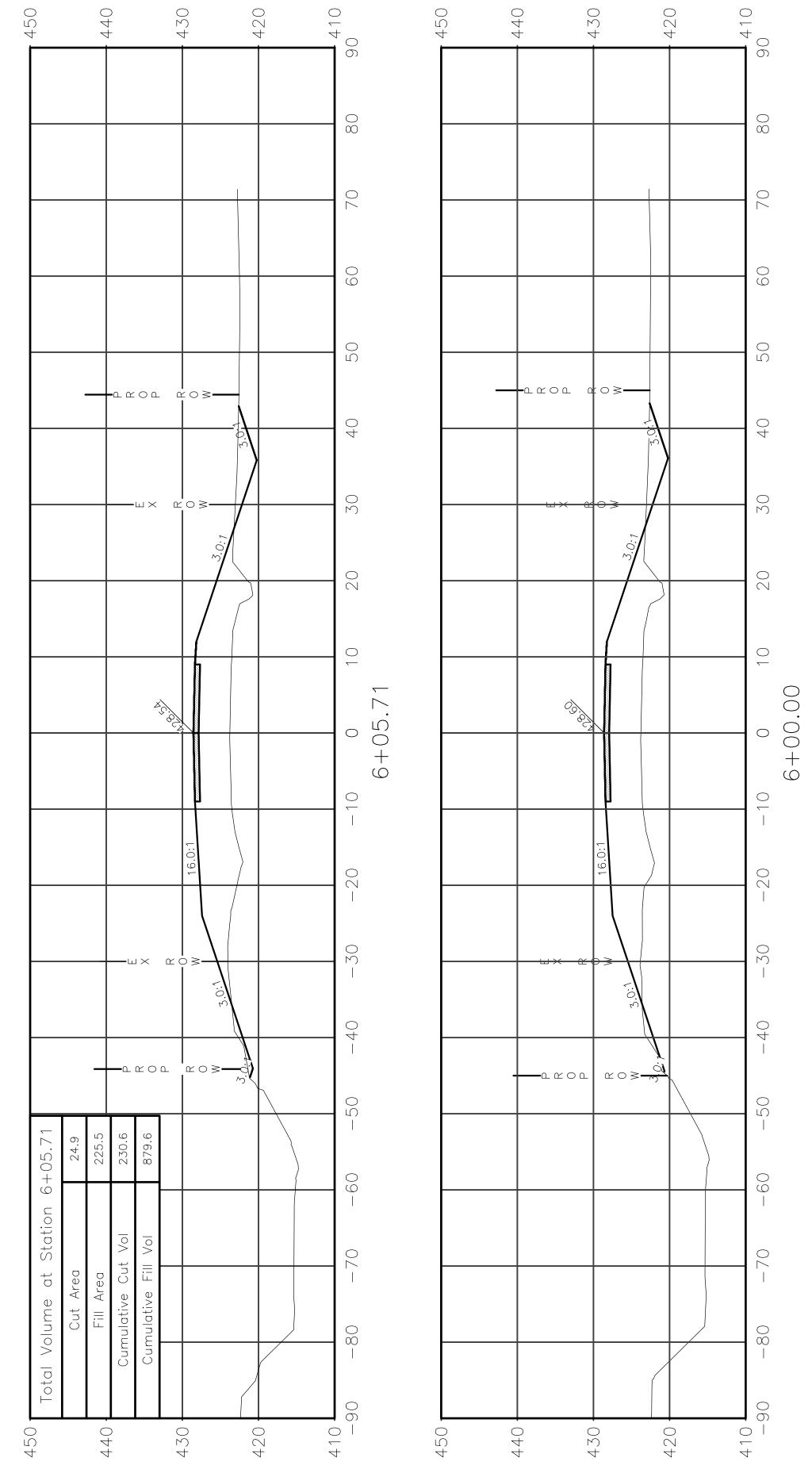


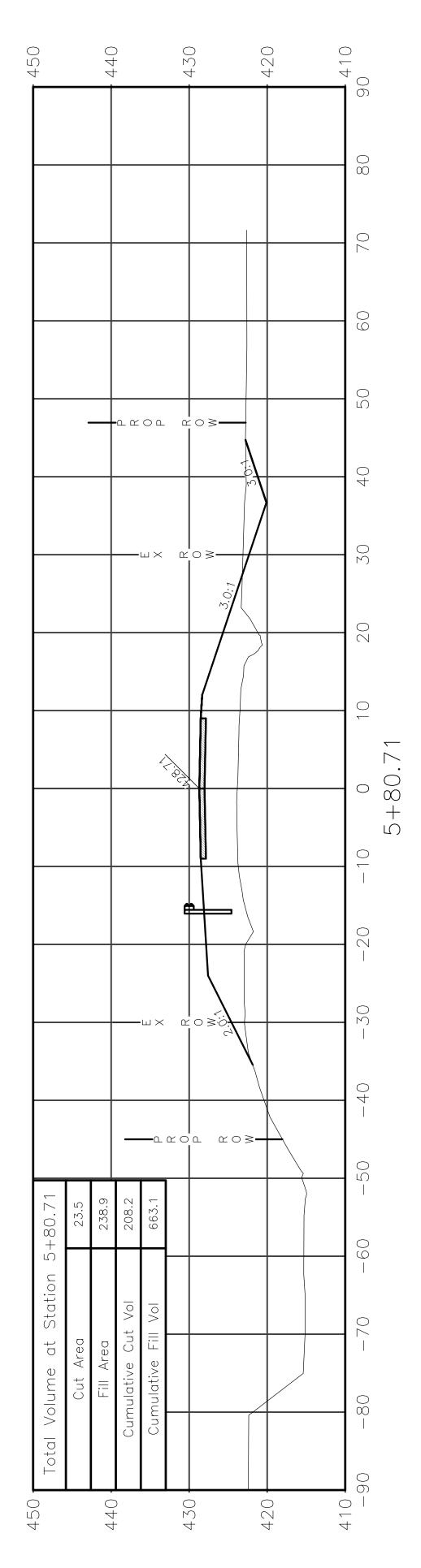
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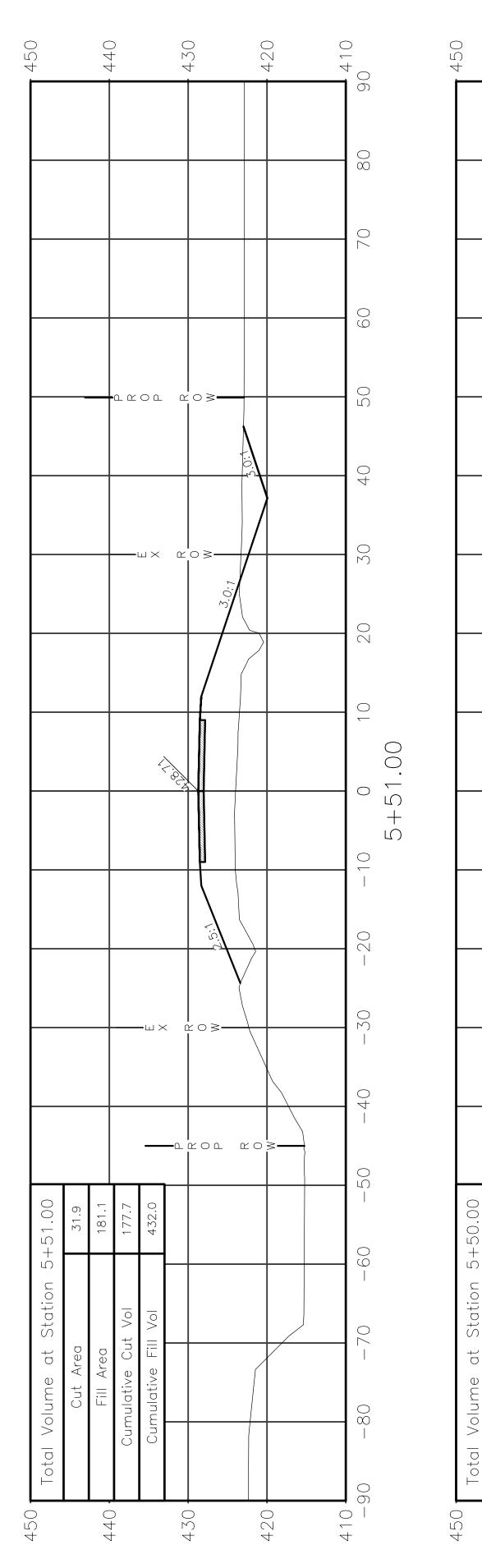






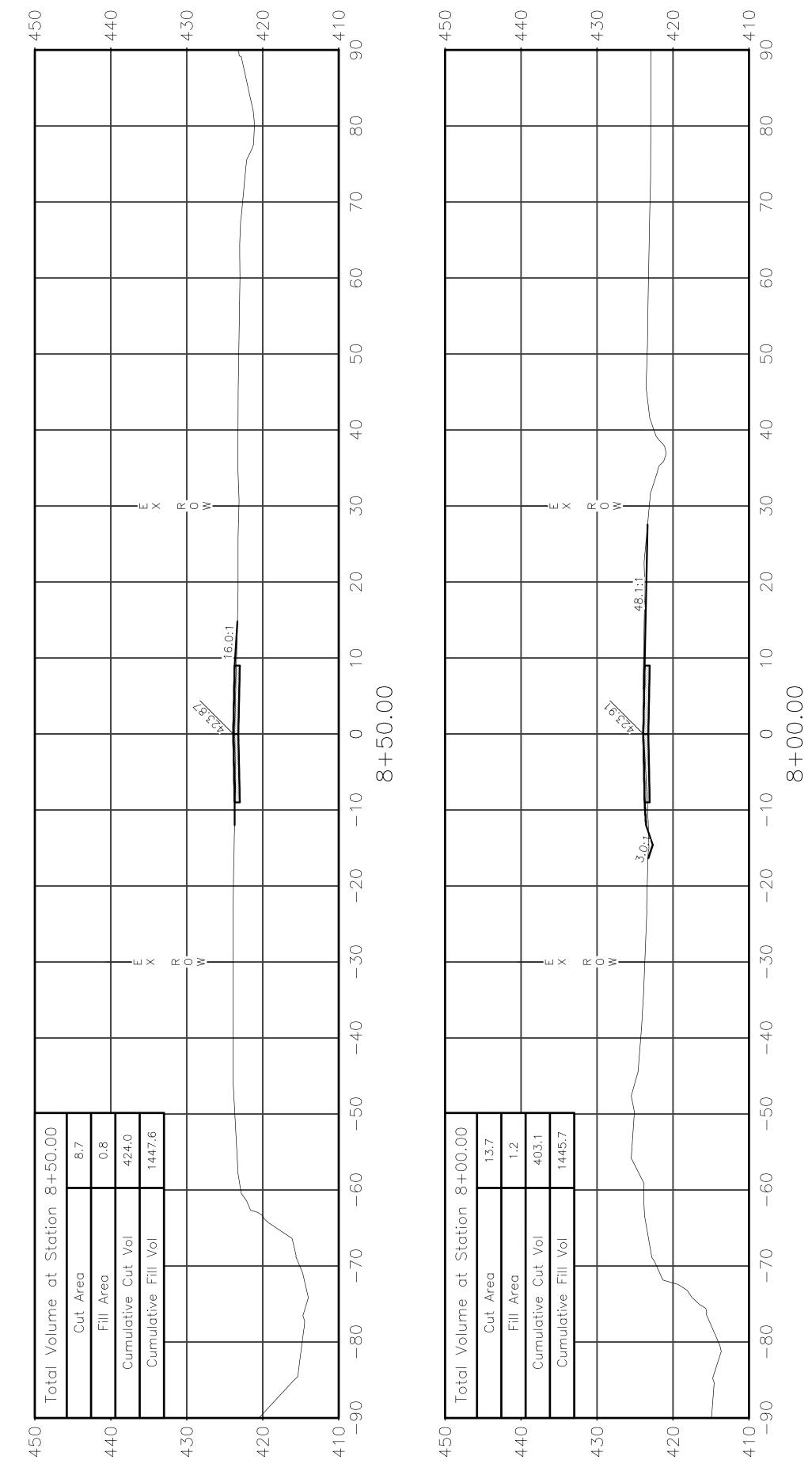


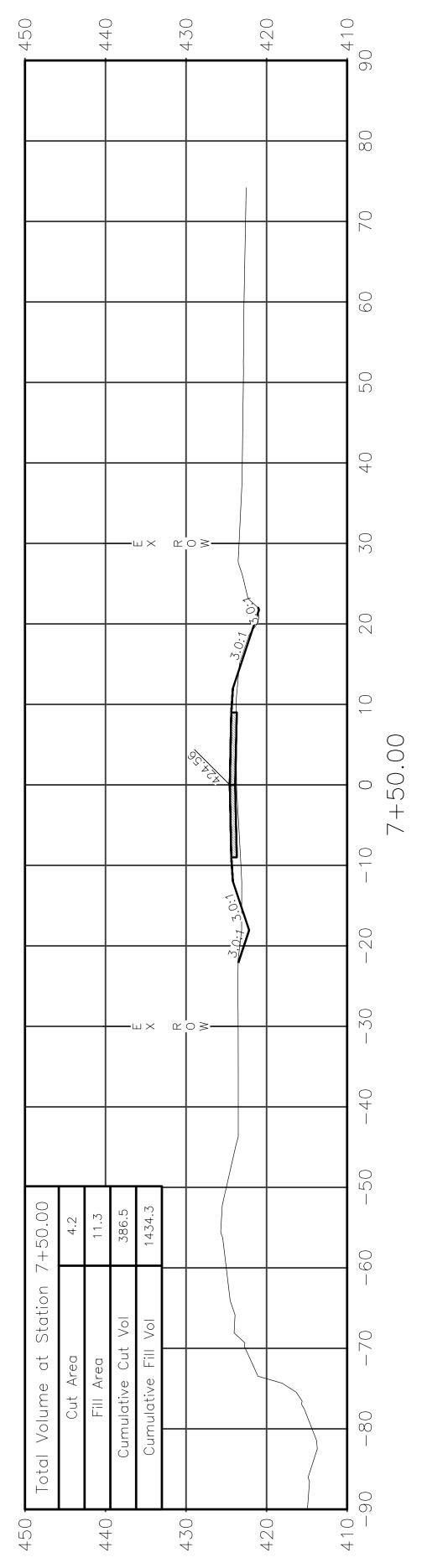


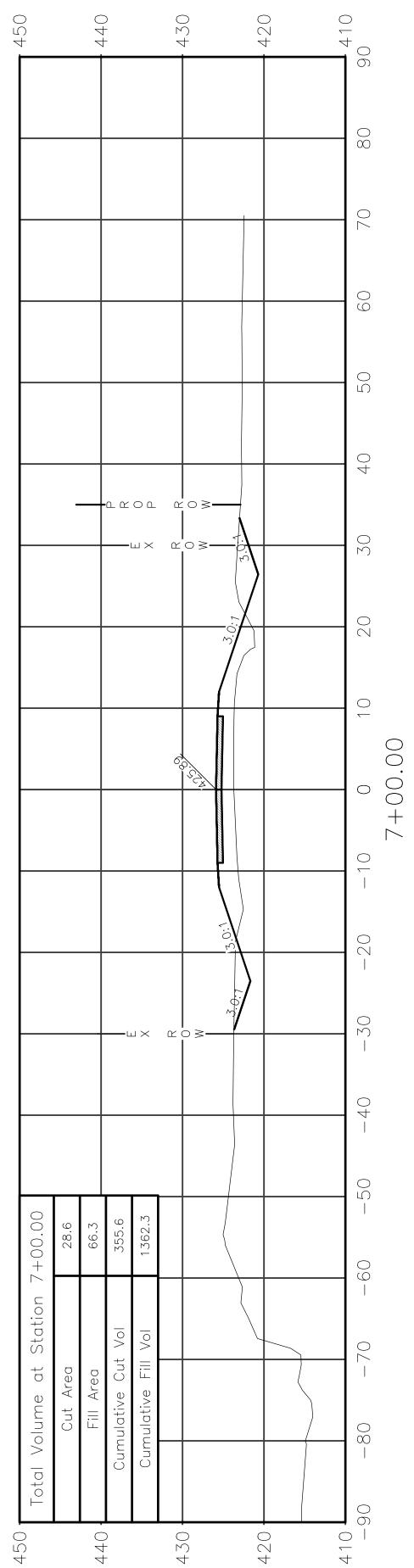


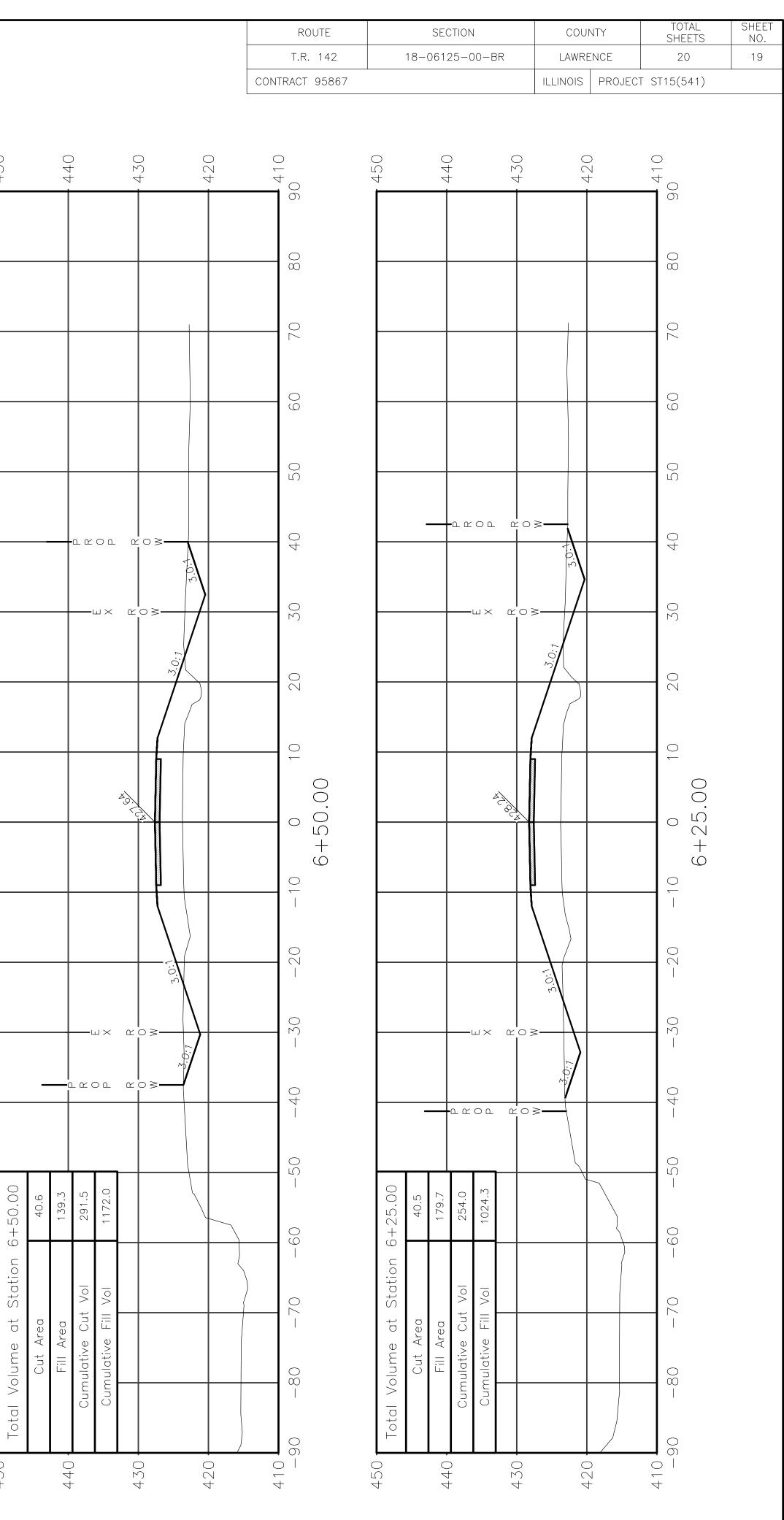


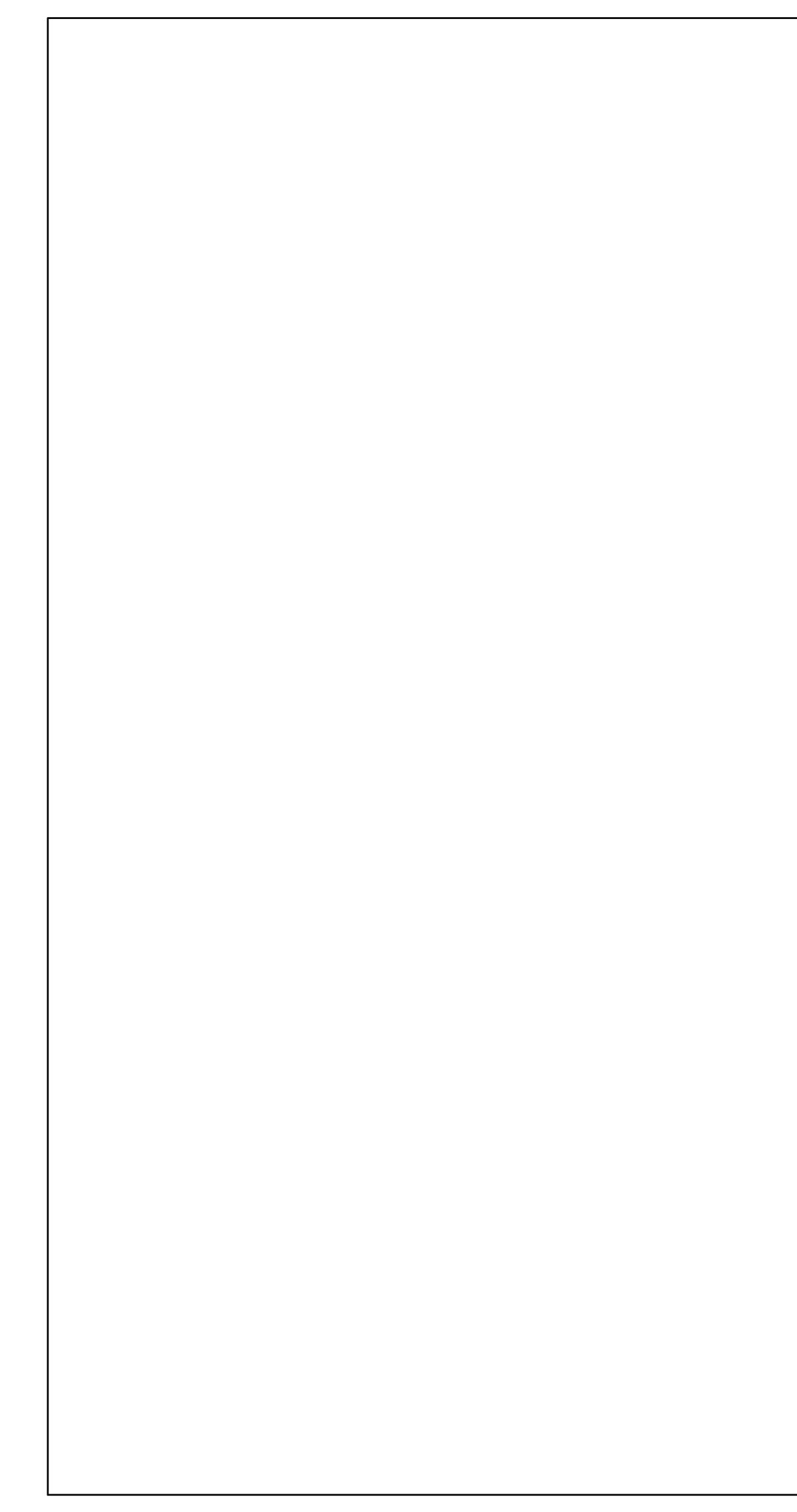
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