08-02-2019 LETTING ITEM 042

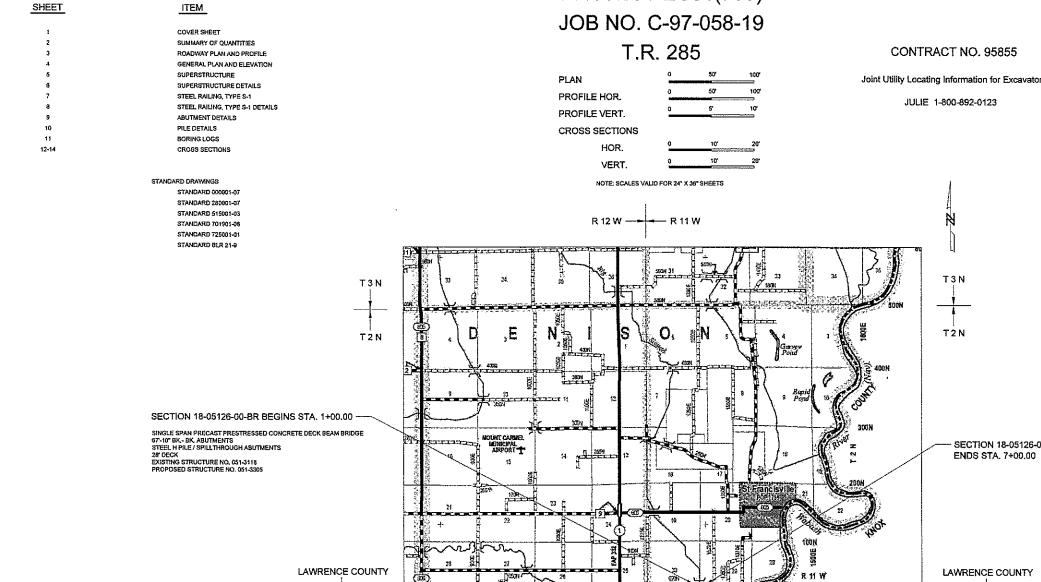
INDEX OF SHEETS

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

PLANS FOR PROPOSED SURFACE TRANSPORTATION PROGRAM - BRIDGE

SECTION 18-05126-00-BR LAWRENCE COUNTY





WABASH COUNTY

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

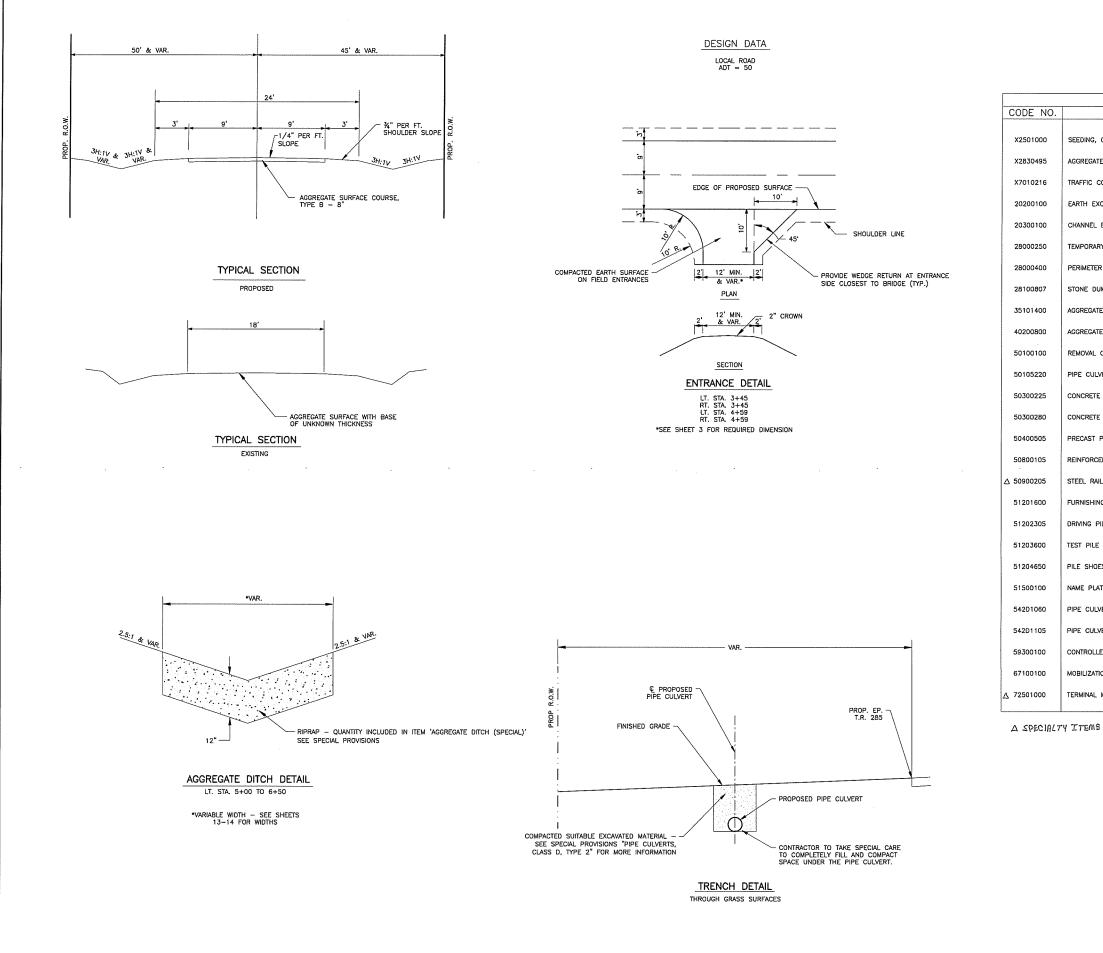
NET LENGTH SECTION 18-05126-00-BR = 600.00 Ft. = 0.114 Mi.

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- F	ROUTE		SECTION	COU		TOTAL SHEETS	SHEET NO.
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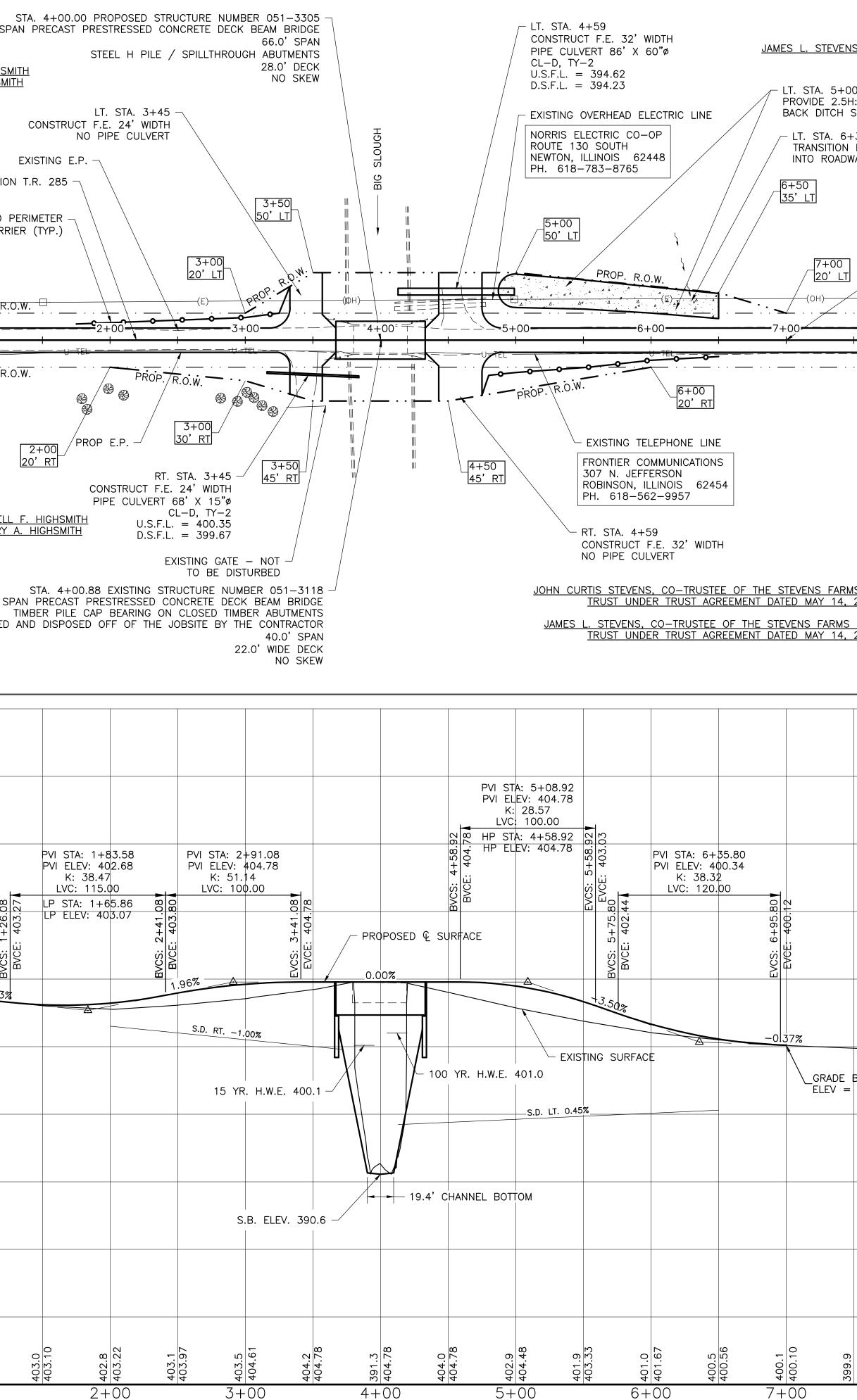
WABASH COUNTY



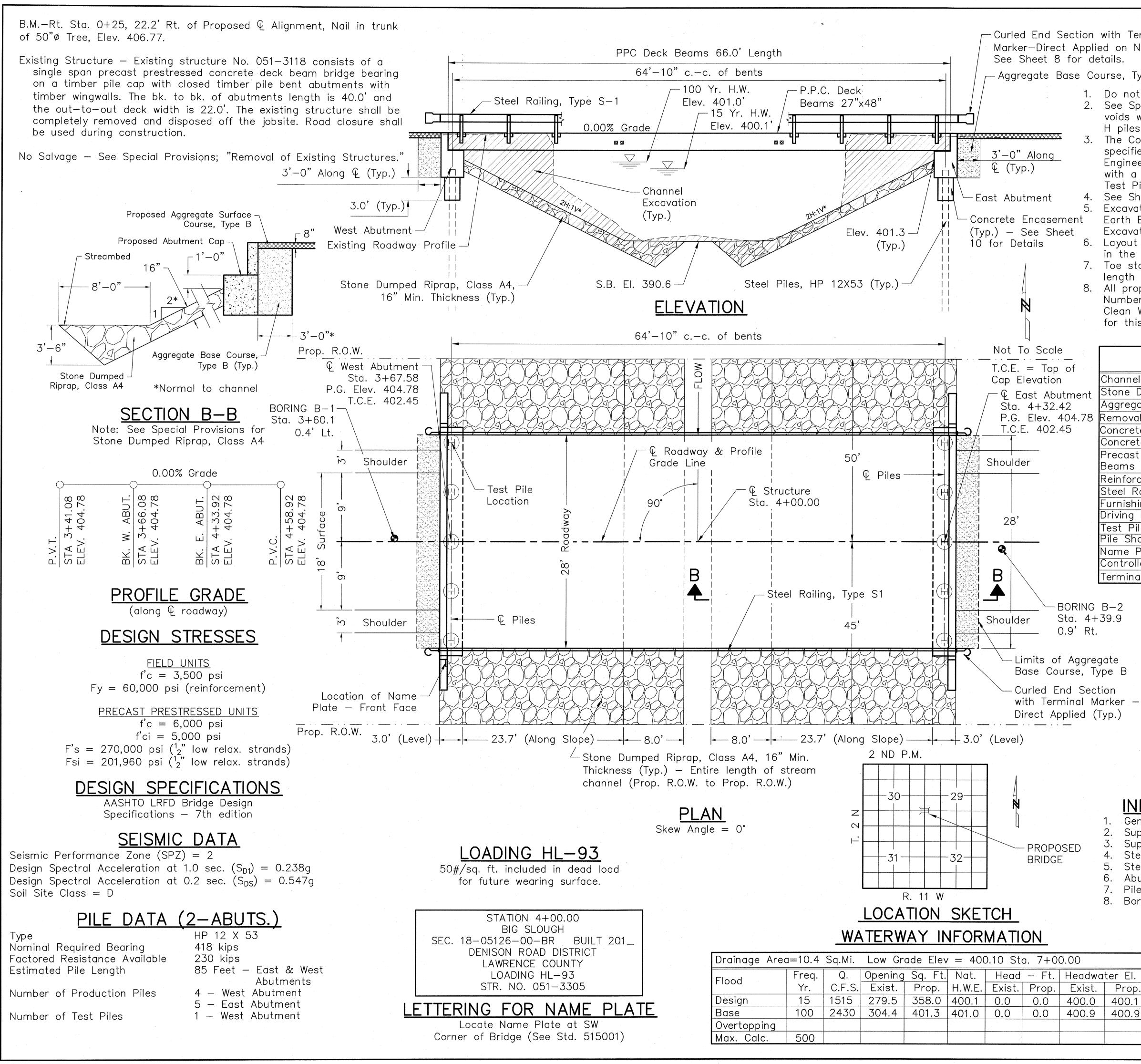
ROUTE	SECTION	COUN	VTY	TOTAL SHEETS	SHEET NO.
T.R. 285	18-05126-00-BR	LAWRENCE		14	2
CONTRACT 95855		ILLINOIS		CT C-97-058-	

SUMMARY OF QUANTITIES	LINUT	OLIANITITY
ITEM		QUANTITY
IG, CLASS 2 (SPECIAL)	ACRE	0.60
GATE DITCH (SPECIAL)	TON	220
C CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
EXCAVATION	CU YD	515
EL EXCAVATION	CU YD	640
RARY EROSION CONTROL SEEDING	POUND	60
ETER EROSION BARRIER	FOOT	370
DUMPED RIPRAP, CLASS A4	TON	560
GATE BASE COURSE, TYPE B	TON	80
GATE SURFACE COURSE, TYPE B	TON	640
AL OF EXISTING STRUCTURES	EACH	1
ULVERT REMOVAL	FOOT	68
ETE STRUCTURES	CU YD	32.4
ETE ENCASEMENT	CU YD	3.5
ST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1848
RCEMENT BARS	POUND	4300
RAILING, TYPE S1	FOOT	136
HING STEEL PILES HP12X53	FOOT	765
9 PILES	FOOT	765
PILE STEEL HP12X53	EACH	1
HOES	EACH	9
PLATES	EACH	1
ULVERTS, CLASS D, TYPE 2 15"	FOOT	68
ULVERTS, CLASS D, TYPE 2 60"	FOOT	86
OLLED LOW-STRENGTH MATERIAL	CU YD	40
ZATION	L. SUM	1
AL MARKER DIRECT APPLIED	EACH	4

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	415 410 405 400 395	EARTH EXCAVATION CHANNEL EXCAVATION EMBANKMENT *QUANTITY INCLUDES 80 EXCAVATION FOR CONCRE EARTH EXCAVATION QUAN DITCHES. VOLUME QUANT INCLUDE OVERDIG VOLUM **IT IS ESTIMATED THAT WILL BE SUITABLE FOR U MATERIAL SHALL BE DISF <u>PIPE CULVERT R</u> LT. STA. 4+44 (FE) <u>PIPE CULVERTS,</u> RT. STA. 3+45 <u>PIPE CULVERTS,</u>	TE STRUCTUR TITY ALSO INC ITIES SHOWN ES. 50% OF THE JSE IN THE EI OSED OF BY EMOVAL	ES INCLUDEI LUDES 135 DN CROSS S CHANNEL EX MBANKMENT. THE CONTRA	515* 640** 480 NCRETE STRL D IN ITEM "E C.Y. OF OVE SECTION SHEI CAVATION UNSUITABL ACTOR.	ARTH EXCAVA RDIG FOR RI ETS DO NOT E <u>FOOT</u> 68 <u>FOOT</u> 68 <u>FOOT</u>	TION."		RRFAK
	415 410 405 400 395	EARTH EXCAVATION CHANNEL EXCAVATION EMBANKMENT *QUANTITY INCLUDES 80 EXCAVATION FOR CONCRE EARTH EXCAVATION QUAN DITCHES. VOLUME QUANT INCLUDE OVERDIG VOLUM **IT IS ESTIMATED THAT WILL BE SUITABLE FOR U MATERIAL SHALL BE DISF <u>PIPE CULVERT R</u> LT. STA. 4+44 (FE) <u>PIPE CULVERTS,</u> RT. STA. 3+45 <u>PIPE CULVERTS,</u>	TE STRUCTUR TITY ALSO INC ITIES SHOWN ES. 50% OF THE JSE IN THE EI OSED OF BY EMOVAL	ES INCLUDEI LUDES 135 DN CROSS S CHANNEL EX MBANKMENT. THE CONTRA	515* 640** 480 NCRETE STRL D IN ITEM "E C.Y. OF OVE SECTION SHEI CAVATION UNSUITABL ACTOR.	ARTH EXCAVA RDIG FOR RI ETS DO NOT E <u>FOOT</u> 68 <u>FOOT</u> 68 <u>FOOT</u>	TION."		RRFAK STA 1
	415 410 405 400 395 390	EARTH EXCAVATION CHANNEL EXCAVATION EMBANKMENT *QUANTITY INCLUDES 80 EXCAVATION FOR CONCRE EARTH EXCAVATION QUAN DITCHES. VOLUME QUANT INCLUDE OVERDIG VOLUM **IT IS ESTIMATED THAT WILL BE SUITABLE FOR U MATERIAL SHALL BE DISF <u>PIPE CULVERT R</u> LT. STA. 4+44 (FE) <u>PIPE CULVERTS,</u> RT. STA. 3+45 <u>PIPE CULVERTS,</u>	TE STRUCTUR TITY ALSO INC ITIES SHOWN ES. 50% OF THE JSE IN THE EI OSED OF BY EMOVAL	ES INCLUDEI LUDES 135 DN CROSS S CHANNEL EX MBANKMENT. THE CONTRA	515* 640** 480 NCRETE STRL D IN ITEM "E C.Y. OF OVE SECTION SHEI CAVATION UNSUITABL ACTOR.	ARTH EXCAVA RDIG FOR RI ETS DO NOT E <u>FOOT</u> 68 <u>FOOT</u> 68 <u>FOOT</u>	TION."		RPEAK CTA 1
.580	415 410 405 400 395 390	EARTH EXCAVATION CHANNEL EXCAVATION EMBANKMENT *QUANTITY INCLUDES 80 EXCAVATION FOR CONCRE EARTH EXCAVATION QUAN DITCHES. VOLUME QUANT INCLUDE OVERDIG VOLUM **IT IS ESTIMATED THAT WILL BE SUITABLE FOR U MATERIAL SHALL BE DISF <u>PIPE CULVERT R</u> LT. STA. 4+44 (FE) <u>PIPE CULVERTS,</u> RT. STA. 3+45 <u>PIPE CULVERTS,</u>	TE STRUCTUR TITY ALSO INC ITIES SHOWN ES. 50% OF THE JSE IN THE EI OSED OF BY EMOVAL	ES INCLUDEI LUDES 135 DN CROSS S CHANNEL EX MBANKMENT. THE CONTRA	515* 640** 480 NCRETE STRL D IN ITEM "E C.Y. OF OVE SECTION SHEI CAVATION UNSUITABL ACTOR.	ARTH EXCAVA RDIG FOR RI ETS DO NOT E <u>FOOT</u> 68 <u>FOOT</u> 68 <u>FOOT</u>	TION."		L L L L L L L L L L L L L L L L L L L
	415 410 405 400 395 390	EARTH EXCAVATION CHANNEL EXCAVATION EMBANKMENT *QUANTITY INCLUDES 80 EXCAVATION FOR CONCRE EARTH EXCAVATION QUAN DITCHES. VOLUME QUANT INCLUDE OVERDIG VOLUM **IT IS ESTIMATED THAT WILL BE SUITABLE FOR U MATERIAL SHALL BE DISF <u>PIPE CULVERT R</u> LT. STA. 4+44 (FE) <u>PIPE CULVERTS,</u> RT. STA. 3+45 <u>PIPE CULVERTS,</u>	TE STRUCTUR TITY ALSO INC ITIES SHOWN ES. 50% OF THE JSE IN THE EI OSED OF BY EMOVAL	ES INCLUDEI LUDES 135 DN CROSS S CHANNEL EX MBANKMENT. THE CONTRA	515* 640** 480 NCRETE STRL D IN ITEM "E C.Y. OF OVE SECTION SHEI CAVATION UNSUITABL ACTOR.	ARTH EXCAVA RDIG FOR RI ETS DO NOT E <u>FOOT</u> 68 <u>FOOT</u> 68 <u>FOOT</u>	TION."		
	415 410 405 400 395 390 385 380	EARTH EXCAVATION CHANNEL EXCAVATION EMBANKMENT *QUANTITY INCLUDES 80 EXCAVATION FOR CONCRE EARTH EXCAVATION QUAN DITCHES. VOLUME QUANT INCLUDE OVERDIG VOLUM **IT IS ESTIMATED THAT WILL BE SUITABLE FOR U MATERIAL SHALL BE DISF <u>PIPE CULVERT R</u> LT. STA. 4+44 (FE) <u>PIPE CULVERTS,</u> RT. STA. 3+45 <u>PIPE CULVERTS,</u>	TE STRUCTUR TITY ALSO INC ITIES SHOWN ES. 50% OF THE JSE IN THE EI OSED OF BY EMOVAL	ES INCLUDEI LUDES 135 DN CROSS S CHANNEL EX MBANKMENT. THE CONTRA	515* 640** 480 NCRETE STRL D IN ITEM "E C.Y. OF OVE SECTION SHEI CAVATION UNSUITABL ACTOR.	ARTH EXCAVA RDIG FOR RI ETS DO NOT E <u>FOOT</u> 68 <u>FOOT</u> 68 <u>FOOT</u>			



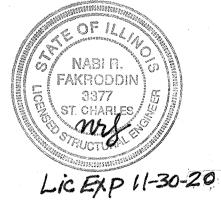
	T.R. 285	18-05126-00-BR	LAWRENCE	14	3
6	CONTRACT 95855		ILLINOIS PROJECT	C-97-058-19	_
TO 6+50					
IV FRONT AND OPES					
0 XISTING FIELD [
Y SPECIAL DITC	Η				
	- SECTION 18-0512	26-00-BR ENDS S	STA. 7+00.00		
			<u>0.T. STA. 7+00</u>	.00	
	EXIST. R.O.W.		694,418.25 1,174,727.17		
8+00	20'	COC	ORDINATES BASED ON NOIS EAST STATE PLAN		
2		COC	ORDINATE SYSTEM		
	EXIST. R.O.W.				
		HATCH LEGEND			
		PRUPUSED AG	GREGATE DITCH (SPEC	IAL)	
<u>IRREVOCABLE</u>)14					
<u>REVOCABLE</u> 14					
		RIPRAP IN DITCHES AFTER E	EXCAVATION		
	AGG. SURF. (CSE. TYPE B	ТО	N 42	0
	STA. 1+00 TO 7+0		64		-
	<u>SEEDING, CLA</u> STA. 1+00 TO 7+0	SS 2 (SPECIAL)	<u>AC</u> 0.6		<u>)</u>
	AGGREGATE D	ITCH (SPECIAL)	<u> </u>		0
	PERIMETER E	ROSION BARRIER	FO		5
		7 , 7 7		80	
	LT. STA. 1+75 TO RT. STA. 4+75 TO	3+33 6+50	1	90 70 FOOT	
	LT. STA. 1+75 TO RT. STA. 4+75 TO	3+33 6+50	1	90	0
	RT. STA. 4+75 TO	3+33 6+50	1	90 70 FOOT	0
EAK STA = 7+ 400.10	RT. STA. 4+75 TO	3+33 6+50	1	90 70 FOOT 40	
EAK STA = 7+ 400.10	RT. STA. 4+75 TO	3+33 6+50	1	90 70 FOOT	
2EAK STA = 7+ 400.10	RT. STA. 4+75 TO	3+33 6+50	1	90 70 FOOT 40 39	5
REAK STA = 7+	RT. STA. 4+75 TO		1	90 70 FOOT 40	5
REAK STA = 7+ 400.10	RT. STA. 4+75 TO		1	90 70 FOOT 40 39 39	5
2EAK STA = 7+ 400.10	RT. STA. 4+75 TO		1	90 70 FOOT 40 39	5
REAK STA = 7+	RT. STA. 4+75 TO		1	90 70 FOOT 40 39 39	5
REAK STA = 7+	RT. STA. 4+75 TO		1	90 70 FOOT 40 39 39	5 0 5
REAK STA = 7+	RT. STA. 4+75 TO		1	90 70 FOOT 40 39 39 39 38	5 0 5
REAK STA = 7+ 400.10	RT. STA. 4+75 TO		1	90 70 FOOT 40 39 39 39 38	5 0 5 0



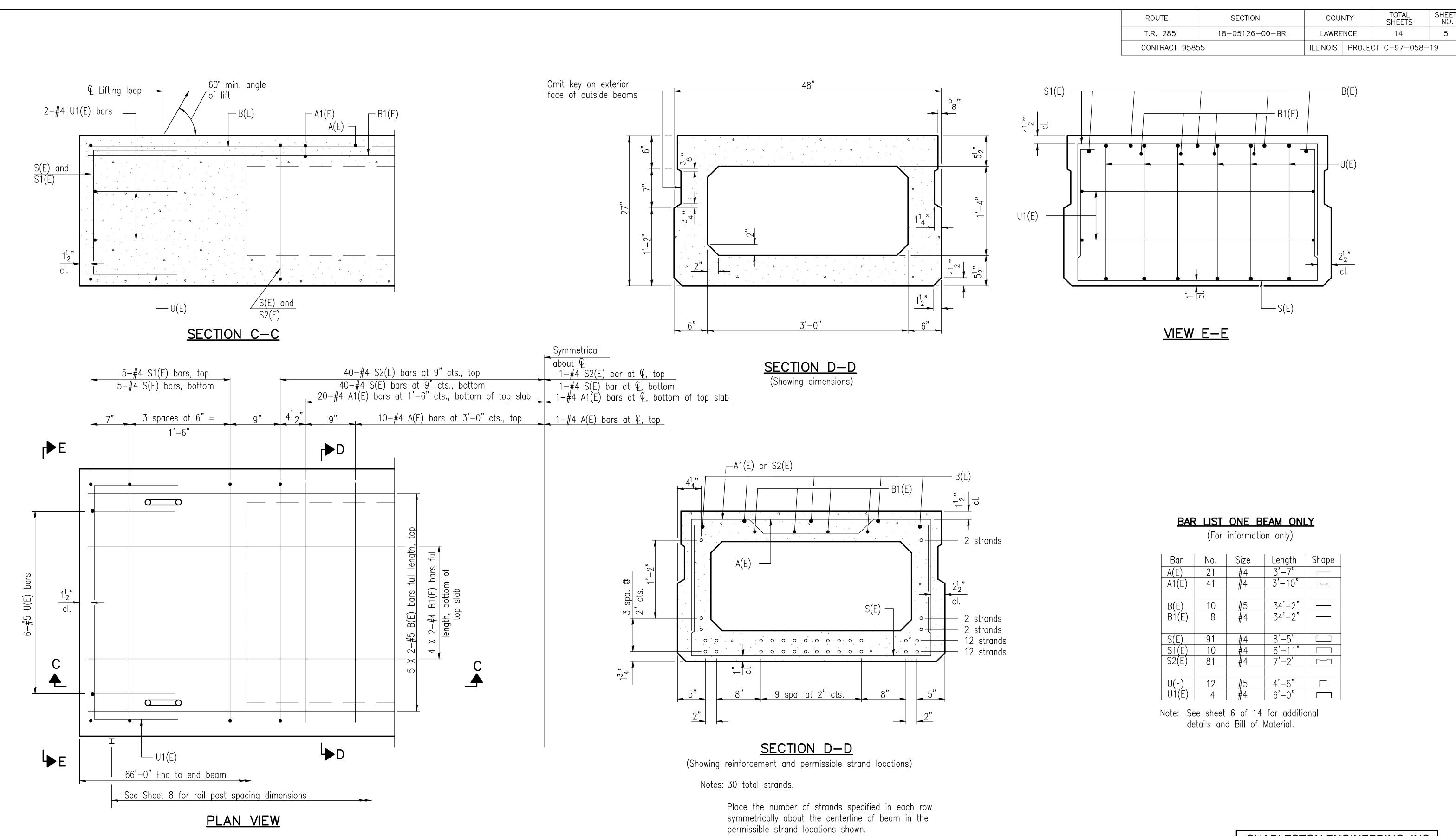
-		ROUTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.		
on	with Terminal T.R. 285		18-05126-0	00-BR	LAWRENCE	14	4		
	ed on Nose (Typ.).	CONTRACT 9585	55		ILLINOIS PRO	JECT C-97-0	058-19		
	etails.			L					
	ourse, Type B	GENE	RAL NO	DTES					
1. 2.	Do not scale sheets 4-11.								
3.	•	tion locations dering the rem hoe, and the c	at the West ainder of pile	Abutmen es. The t	it or as ap est pile sh	proved b all be eq	y the Juipped		
4. 5.		to construct							
6.			-	e varied	to suit gr	ound con	ditions		
7.	Toe stone riprap tr	reatment as sh	nown in Sect			nd entire	channel		
8.	length from proposed const		• •			ationwide	Pormit		
.	Number 14 of the Clean Water Act. for this activity.	Department of	the Army a issued Sectio	uthorized on 401 W	l under Se ater Qualit	ction 404	of the		
		· · · · · · · · · · · · · · · · · · ·			Sut				
	lter	T 1	Unit	Super	Piers	Abuts.	Total		
	Channel Excavation		Cu. Yd.		<u> </u>	640	640		
nt	Stone Dumped Ripr	ap, Class A4	Tons	-	_	560	560		
	Aggregate Base Co	urse, Type B	Tons			80	80		
78	Removal of Existing	Structures	Each				1		
	Concrete Structures	3	Cu. Yd.			32.4	32.4		
	Concrete Encaseme	nt	Cu. Yd.		—	3.5	3.5		
	Precast Prestressed Beams (27" Depth)		k Sq. Ft.	1848		_	1848		
	Reinforcement Bars		Pound			4300	4300		
	Steel Railing, Type		Foot	136			136		
	Furnishing Steel Pile		Foot			765	765		
	Driving Piles		Foot			765	765		
	Test Pile Steel HP	12 X 53	Each	······································		1	1		
	Pile Shoes		Each			9	9		
	Name Plates		Each			1	1		
	Controlled Low-Stre	ength Material	Cu. Yd.			40	40		
	Terminal Marker —		Each	4			4		

BORING B-2 Sta. 4+39.9

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.



	time time to be a second of the second secon
 INDEX OF SHEETS General Plan & Elevation Superstructure Superstructure Details Steel Railing, Type S1 Steel Railing, Type S1 Details Abutment Details Pile Details Boring Logs 	CHARLESTON ENGINEERING, INC. CONSULTING ENGINEERS 105 NORTH KITCHELL P.O. BOX 397 OLNEY, ILLINOIS 62450 (618) 392-0736 ILLINOIS DEPARTMENT OF PROFESSIONAL REGULATION REGISTRATION #184.003513
	GENERAL PLAN & ELEVATION
	STRUCTURE NO. 051-3305
	T.R. 285
vater El. . Prop.	OVER BIG SLOUGH
400.1 400.9	SECTION 18-05126-00-BR
	LAWRENCE COUNTY
	STATION 4+00.00



Notes: 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.

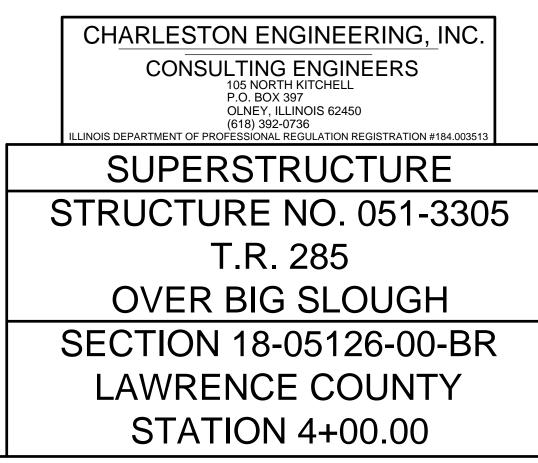
Bars indicated thus: "4 X 2-#4" indicates 4 lines of bars with 2 lengths per line.

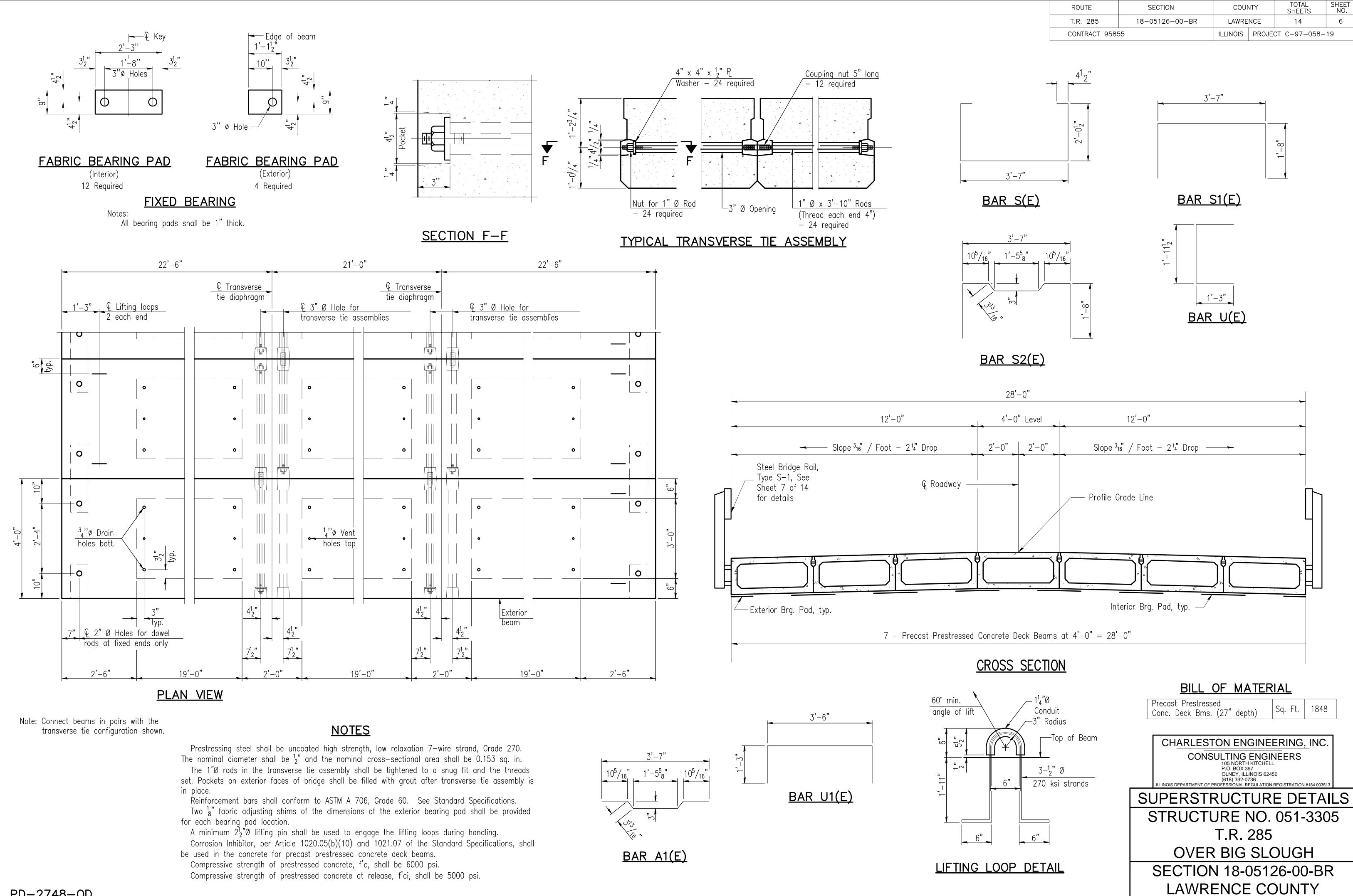
MINIMUM BAR LAP #4 bar = 1'-11" #5 bar = 2'-6"

BAR	LIST	ONE	BEAM	ONLY
	(For	inform	ation on	ly)

No.	Size	Length	Shape
21	#4	3'-7"	
41	# 4	3'-10"	
10	#5	34'-2"	
8	#4	34'-2"	
91	#4	8'-5"	
10	#4	6'-11"	
81	#4	7'-2"	LJ
12	#5	4'-6"	
4	#4	6'-0"	
	21 41 10 8 91 10 81	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$

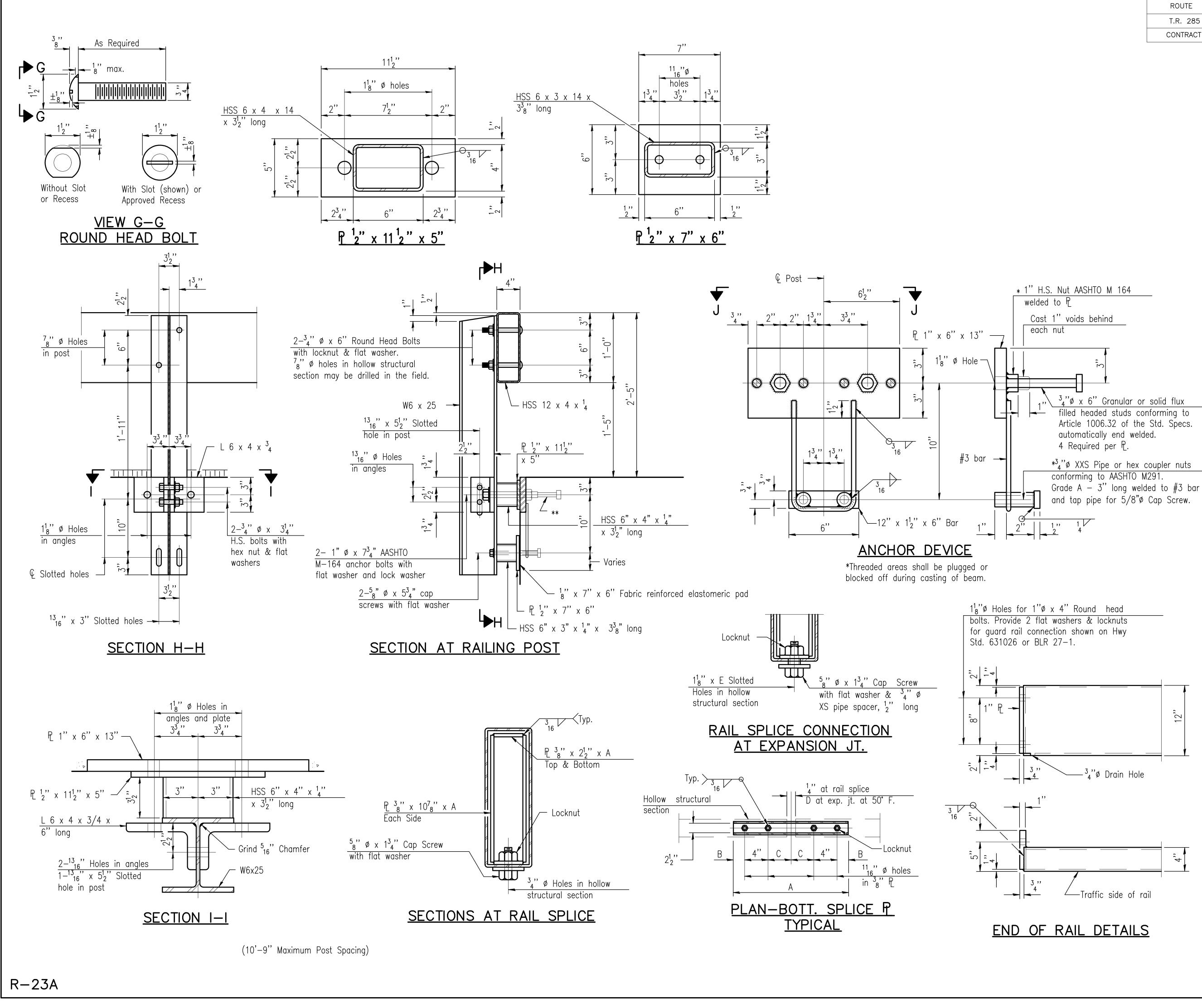
Note:	See she	eet 6	of	14	for	additional
	details	and	Bill	of N	<i>l</i> late	rial.





STATION 4+00.00

PD-2748-0D



ROUTE SECTION		COU	NTY	TOTAL SHEETS	SHEET NO.
T.R. 285	18-05126-00-BR	LAWRE	INCE	14	7
CONTRACT 95855		ILLINOIS	PROJE	CT C-97-058-	19

SPLICE DIMENSIONS

Т	D	A	В	С	E
≤4"	2 ¹ ₂ ''	1'-8''	2"	4"	2 ¹ ₂ ''
$>4'' \le 6_2^{1''}$	3 ³ ,'	2'-0''	2 ¹ ₂ ''	5 ¹ ''	3 ¹ / ₂ ''
$>6^{1}_{2}$ " ≤ 9 "	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''	

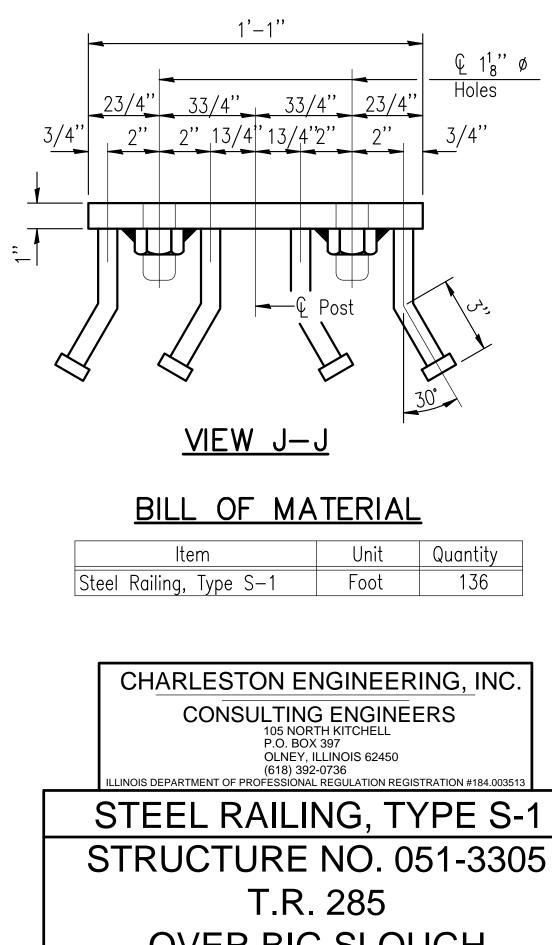
T = Total movement at expansion joint as shown on the design plans.

Notes:

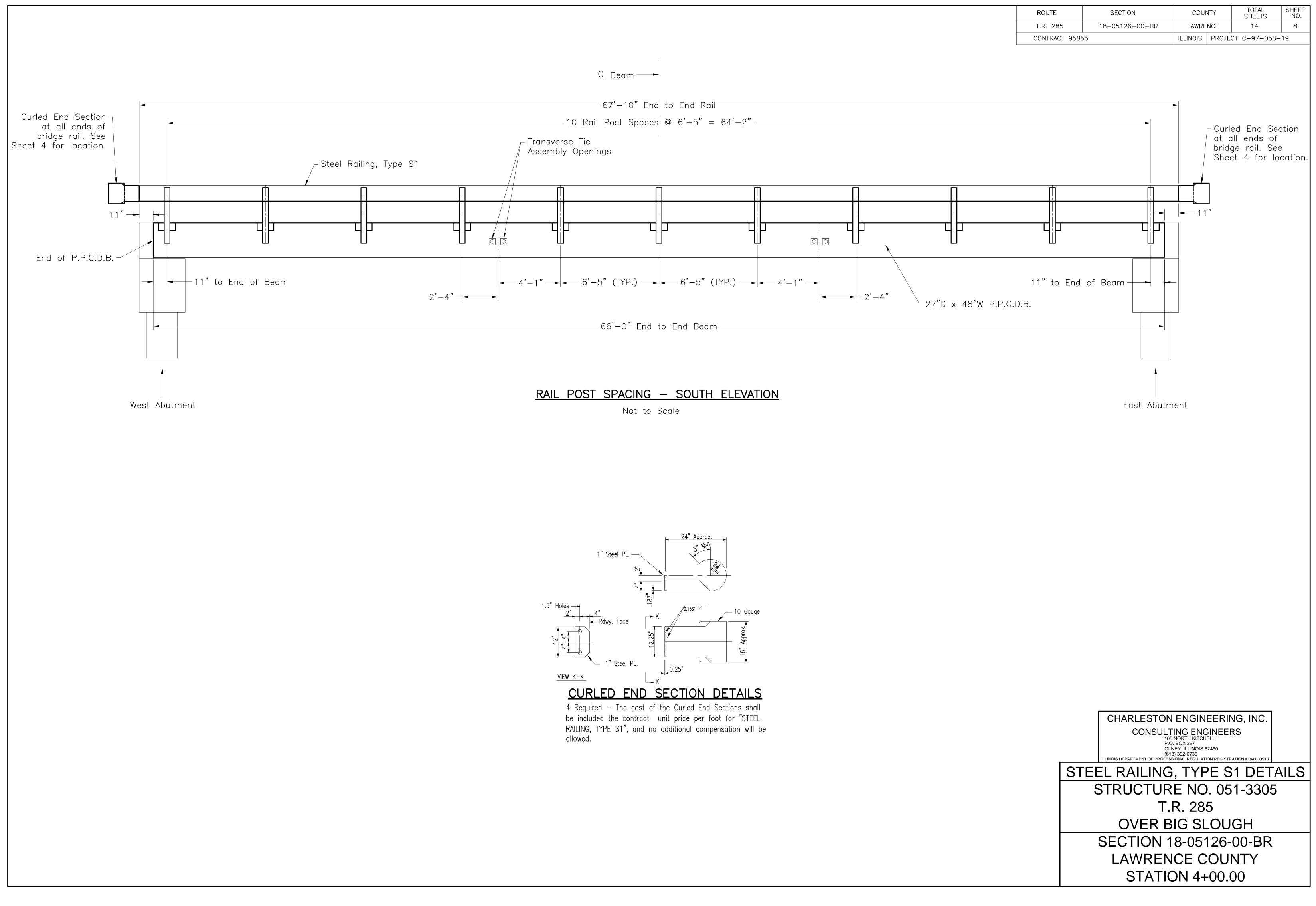
For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.

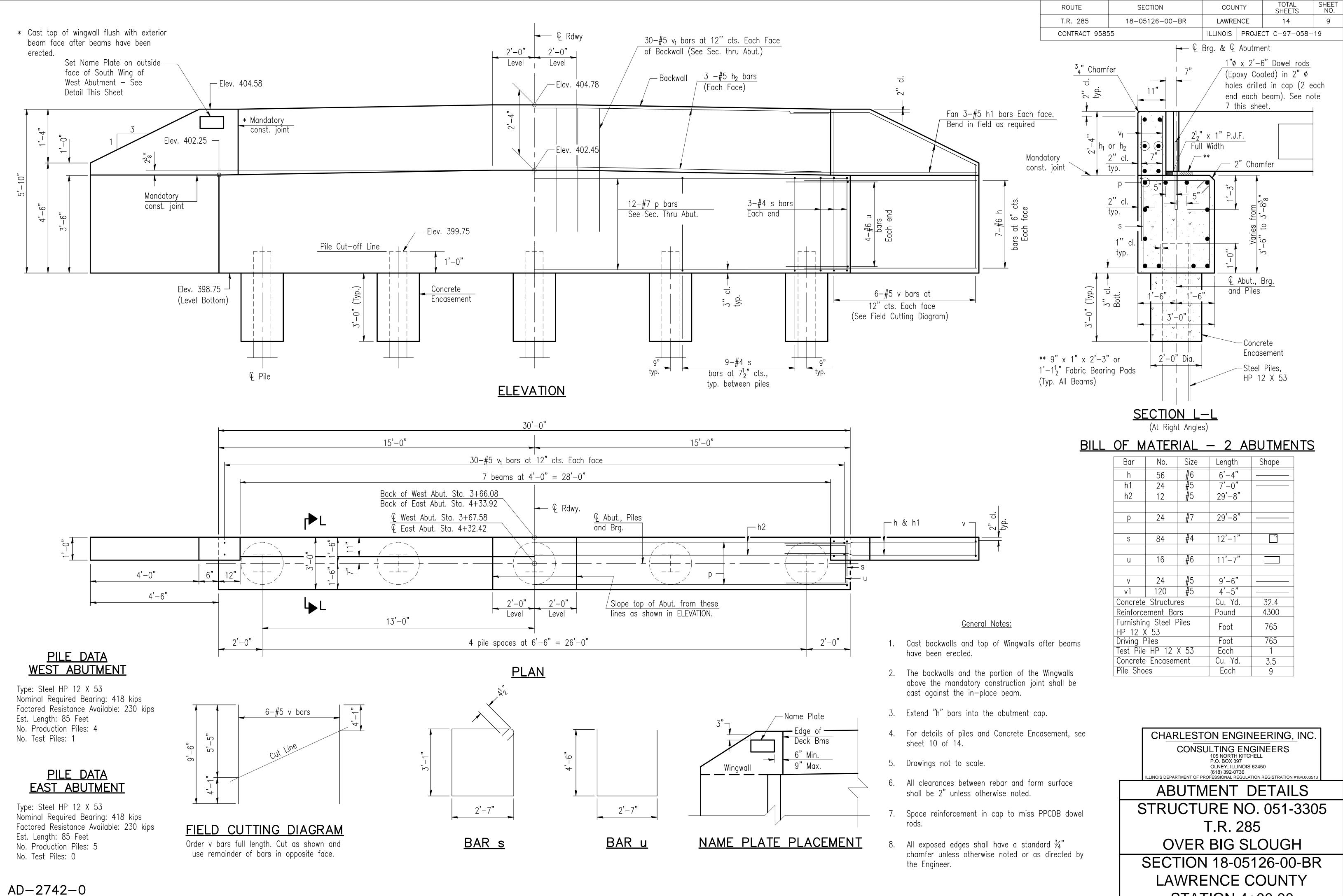
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

** 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.

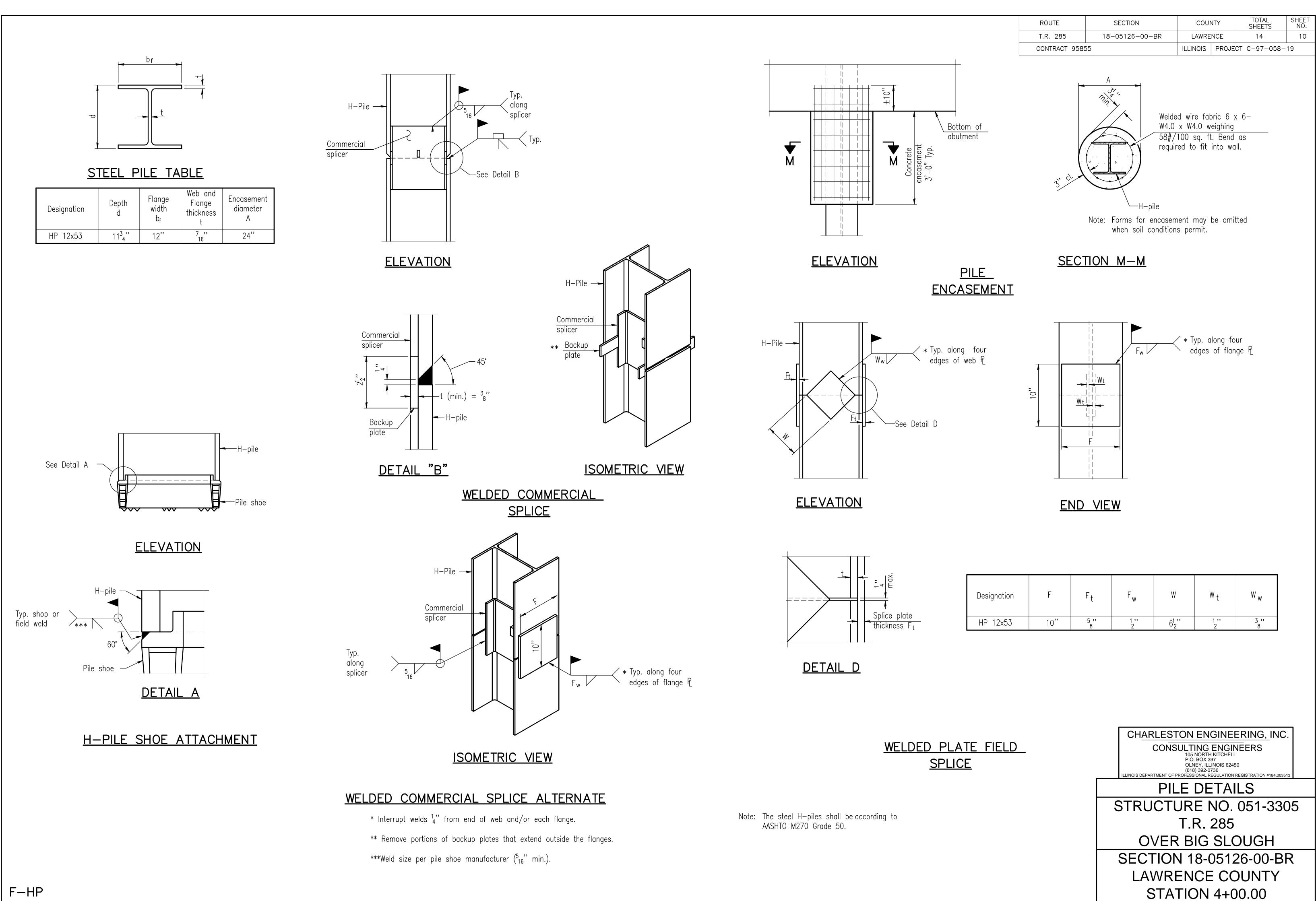


OVER BIG SLOUGH SECTION 18-05126-00-BR LAWRENCE COUNTY STATION 4+00.00





STATION 4+00.00



N	OB.	LE					BORING No. B-1	wate	r level	reading		OB.	LE	
ENGI	NEER	ING CON	SULTANTS	County:	Lawrence	e, IL	Sheet No. 1 of 3	1st en	counter	: 13'	ENGI	NEER	ING CON	
		lston Engi		353	r: Sunny		Temperature: 80's			reading			eston Engi	_
					art: 8-6-18	3	Surface Elevation: 404.7 **	@com		Dry Cave			e Engineer	
			L26-00-BR	Date Fi	nished: 8-0	6-18	Driller: Tony Schocker	Backf	ill:	Soil cuttings	Locat	ion: Sec	c. #18-05 1	Ľ
Depth:	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description		USC Class.	Elev.**	Depth :	Sample No.	Sample Depth	1
1							0.0'-0.8' Gravel-FILL			403.7	31			
2	SS-1	1.0'-2.5'	24	26-14-10	30		0.8'-6.0' Silt, Clay, Etc. FILL		FILL	402.7	32			
3						4				401.7	33			_
1	SS-2	3.5'-5.0'	16	9-9-7	50				FILL	400.7	34	SS-9	33.5'-35.0'	-
5										399.7	35			
5	SS-3	6.0'-7.5'	9	2-4-5	0	4	6.0'-14.0' SILTY FINE TO COARSE SAND, trace to some gravel, loose, moist to	81	SM	398.7	36			
7							saturated below 13', brown			397.7	37			
3					*	6				396.7	38	Pantepantepantepante		1000
Ð	SS-4	8.5'-10.0'	8	2-4-4	10				SM	395.7	39	SS-10	38.5'-40.0'	
10		ĩ								394.7	40		T	T
11	(1)			6		ç.				393.7	41 42			
12 13	6									392.7 391.7	42 43			
14	SS-5	13.5'-15.0'	18	4-7-11	100	0.9	14.0'-41.0' SILTY CLAY, trace to some sar occasional wet sand seams below 27',	nd,	CL	390.7	44	SS-11	43.5'-45.0'	Γ
15	e	0	-			-	medium stiff, gray			389.7	45			
16				2		-				388.7	46			1
17										387.7	47		100) 8 11/20 10/20 10/20 10/20 10/20 10/20 10/20 10/20 10/20 10/20 10/20 10/20 10/20 10/20 10/20 10/20 10/20 1	
18		r	r.							386.7	48		1	Т
19	SS-6	18.5'-20.0'	10	3-4-6	100	0.8			CL	385.7	49	SS-12	48.5'-50.0'	
20		,								384.7	50			
21	2			1.		-				383.7	51			
22 23						1				382.7 381.7	52 53			
24	SS-7	23.5'-25.0'	12	4-5-7	100	0.9	-		CL	380.7	54	SS-13	53.5'-55.0'	
25		-								379.7	55			t
26										378.7	56			t
27										377.7	57			
28										376.7	58			ļ
29										375.7	59			ļ
30	SS-8	28.5'-30.0'	10	4-4-6	100	0.8			CL	374.7	60	SS-14	The second secon	
		SA (2-1/4" id)		comments	1	19.72	of the unconfined compressive strength performed						ISA (2-1/4" id)	-
)' to 80.3'	47					spring loaded cylinder		-)' to 80.3' Mobile B-	47	╀
	: Mobile B- g: split-spo	1744			** ground su 404.7 and is	intace eleva not survey	ation at boring location is estimated from bridge deck ed	<u>د</u>				g: split-spc		╀
zampiini	g, spiic-spi										Samping	g, spiic-spi		t

N	OB.	LE					BORING No. B-2	wate	r level	reading	N	OB.	LE	
ENGI	NEER	ING CON	SULTANTS	County:	Lawrence	e, IL	Sheet No. 1 of 3	1st er	ncounter	:: 14'	ENG	INEER:	ING CON	SULTA
		lston Engi			r: Sunny		Temperature: 80's	wate	r level	reading	Client	: Charle	eston Engi	neering
			ing Consultants				Surface Elevation: 404.7 **			Dry Cave			Engineer	
Locati	ion: Sec	c. #18-05:	126-00-BR	Date Fi	nished: 8-	6-18	Driller: Tony Schocker	Back	fill:	Soil cuttings	Locat	ion: Sec	c. #18-051	L26-00-E
Depth :	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description		USC Class.	Elev.**	Depth	Sample No.	Sample Depth	N-Value
1							0.0'-0.7' Gravel-FILL			403.7	31			
2	SS-1	1.0'-2.5'	21	18-12-9	20		0.7'-6.0' Silt, Clay, Etc. FILL		FILL	402.7	32			
3										401.7	33			
Ŧ	SS-2	3.5'-5.0'	14	11-7-7	50				FILL	400.7	34	SS-9	33.5'-35.0'	
5										399.7	35			
	SS-3	6.0'-7.5'	10	4-5-5	0		6.0'-14.0' SILTY FINE TO COARSE SAND, trace to some gravel, loose, moist to		SM	398.7	36			
1.000 000 000 000 000 000 000 000 000 00							saturated below 14', brown	. aaaaaaaaaaaaa		397.7	37			
1		nos a cast de tracta cast de tracta e			Intentecidationseconations					396.7	38		999 599 FOOLEO2014 FOOLEO2014 FOOLEO2	
)	SS-4	8.5'-10.0'	9	3-4-5	10				SM	395.7	39	SS-10	38.5'-40.0'	
.0										394.7	40			
11										393.7	41			
.2										392.7	42			
.3		1								391.7	43		1	1
.4	SS-5	13.5'-15.0'	19	5-9-10	100	0.9	14.0'-42.0' SILTY CLAY, trace to some sand, occasional wet sand seams below 38', medium stiff to stiff, gray		CL	390.7	44	SS-11	43.5'-45.0'	
.5		anataaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaaa					ineulani sun to sun, gray			389.7	45		Succession in such that is a second	anaa taraa haraa haraa haraa ha
L6 L7										388.7	46 47			
18		105041050410504105041050410504								387.7 386.7	48		1050an Xoo 1050an Xoo 1050an Xoo A	105041250410504125041050
.9	SS-6	18.5'-20.0'	10	3-4-6	100	0.9			CL	385.7	49	SS-12	48.5'-50.0'	9
20										384.7	50			
21				-						383.7	51			
22 23										382.7	52 53			
	SS-7	23.5'-25.0'	17	6-8-9	100	1.0			CL	381.7	54	SS-13	53.5'-55.0'	1
24		20.0-20.0		0-0-9	100	1.0				380.7		55-15	33.3-33.0	
25 26										379.7	55 56			
26 27										378.7 377.7	56			
28										377.7	58			
29										375.7	59			
30	SS-8	28.5'-30.0'	14	4-6-7	100	1.0			CL	374.7	60	SS-14	58.5'-60.0'	1
Drilling	Method: H	SA (2-1/4" id))	comments	* Qp test is	an estimate	of the unconfined compressive strength performed				Drilling	Method: H	 SA (2-1/4" id)	
)' to 79.4'				by a compac	t calibrated	l spring loaded cylinder					0' to 79.4'		
	Mobile B-				** ground s	urface elev	ation at boring location is estimated from bridge deck	<u> </u>	-			: Mobile B-		
ampling	g: split-spo	ion (SS)			404.7 and is	not survey	eu				Samplin	g: split-spo	on (SS)	

LE		BORII		BORING No. B-1		water level reading		N	OB	LE					BORING No. B-1	
NG CON	SULTANTS	County	: Lawrence	e, IL	Sheet No. 2 of 3	1st enco	ounter	: 13'	ENG	NEER.	ING CON	SULTANTS	County:	Lawrence	e, IL	Sheet No. 3 of 3
ston Engi	neering	Weathe	er: Sunny		Temperature: 80's	water	level	reading	Client	: Charle	eston Engi	neering	Weathe	r: Sunny		Temperature: 80's
	ing Consultants				Surface Elevation: 404.7	@comple		Dry Cave				ing Consultants				Surface Elevation: 404.7
. #18-051	26-00-BR	Date Fi	nished: 8-	5-18	Driller: Tony Schocker	Backfill	:	Soil cuttings	Locat	ion: Se	c. #18-051	L26-00-BR	Date Fi	nished: 8-	6-18	Driller: Tony Schocker
Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description		JSC Class.	Elev.**	Depth :	Sample No.	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description
								373.7	61							
								372.7	62 63							
				120.001						-						41.0'-77.8' CLAY, fat, occ. wet sand se
33.5'-35.0'	12	4-5-7	100	0.9			CL	370.7	64 65	SS-15	63.5'-65.0'	7	2-3-4	70	0.8	trace to some gravel, medium stiff to s
								368.7	66							
								367.7	67							
								366.7	68							
38.5'-40.0'	10	4-4-6	100	0.7			CL	365.7	69	SS-16	68.5'-70.0'	22	9-10-12	100	1.2	
								364.7	70							
								363.7	71							
		1						362.7	72				1			
								361.7	73							
43.5'-45.0'	7	3-3-4	100	0.8	41.0'-77.8' CLAY, fat, occ. wet sand seams, trace to some gravel, medium stiff to stiff, gray		СН	360.7	74	SS-17	73.5'-75.0'	29	8-10-19	100	1.9	
					9. ~)			359.7 358.7	75 76							
								357.7	77							
534 h 1494 h 654 h 1494 h 654 h 1494 h	1000 0000 1000 0000 1000 0000 1000 0000 1000 0000 1000 0000 0000 0000 0000 0000 0000 0000 0000							356.7	78		050100310505010505105050105	an internancean bean bicon internancean bicon bicon bicon				
48.5'-50.0'	6	2-3-3	100	0.6			СН	355.7	79	SS-18	78.5'-80.0'	100+	59-100/3"	0	3 9 0	77.8'-80.3' HIGHLY WEATHERED RO
								354.7	80							AR 80.3'
								353.7								
								352.7								
								351.7								
53.5'-55.0'	7	3-3-4	100	0.7			СН	350.7								
								349.7 348.7								
								347.7								
								346.7								
								345.7								
58.5'-60.0'	9	4-4-5	100	0.8			СН	344.7								
SA (2-1/4" id)		comments	* Qp test is a	in estimate	of the unconfined compressive strength performed				Drilling	Method: H	ISA (2-1/4" id)		comments	* Qp test is	an estimat	e of the unconfined compressive strength perform
					spring loaded cylinder)' to 80.3'						d spring loaded cylinder
F7			** ground si	irface eleva	ition at boring location is estimated and is not surveyed		14 No. No. No. No. No. No. No. No. No.			: Mobile B				** ground s	urface elev	vation at boring location is estimated and is not su
on (SS)									Samplin	g: split-spo	oon (SS)					

				BORING No. B-2	water level	reading
LTANTS	County:	Lawrence	e, IL	Sheet No. 2 of 3	1st encounter	: 14'
ring	Weathe	r: Sunny		Temperature: 80's	water level	reading
Consultants	Date Sta	art: 8-6-1	8	Surface Elevation: 404.7	@completion	Dry Cave
-00-BR	Date Fir	nished: 8-	6-18	Driller: Tony Schocker	Backfill:	Soil cutting
alue	Blow Count	Recovery (%)	Qp (tsf)*	Soil Description	USC Class.	Elev.**
						373.7
						372.7
						371.7
15	6-6-9	100	1.1		CL	370.7
						369.7
						368.7
						367.7
						366.7
10	4-5-5	100	0.8		CL	365.7
						364.7
						363.7
						362.7
						361.7
7	3-4-3	100	0.8	42.0'-77.2' CLAY, fat, occ. wet sand seams, trace to some gravel, medium stiff to stiff,	СН	360.7
				gray		359.7
						358.7
						357.7
						356.7
9	2-4-5	100	0.9		сн	355.7
						354.7
						353.7
						352.7
						351.7
14	5-7-7	100	1.0		СН	350.7
						349.7
						348.7
						347.7
						346.7
						345.7
17	5-8-9	100	1.2		СН	344.7
	comments	* Qp test is	an estimate	of the unconfined compressive strength performed		
		by a compac	t calibrated	l spring loaded cylinder		
		** ground s	urface eleva	ation at boring location is estimated and is not surveyed		

		LE					BORING No. B-2
1001 1000 10 10 10 10 10 10 10 10	CTE CHILLEY ESLOYING TO DOLLA	DEPERTURNED AT COMPANY	SULTANTS	1	Lawrenc	e, IL	Sheet No. 3 of 3
		eston Engi	neering ing Consultants		r: Sunny art: 8-6-1	8	Temperature: 80's Surface Elevation: 404.7
			L26-00-BR		nished: 8	12.0011	Driller: Tony Schocker
Depth :	Samala	Sample Depth	N-Value	Blow Count	Recovery (%)	Qp (tsf)*	, Soil Description
61		1 107 001 • 1980 Pos					
62							
63							
64	SS-15	63.5'-65.0'	13	5-6-7	100	0.9	42.0'-77.2' CLAY, fat, occ. wet sand sea trace to some gravel, medium stiff to st
65							gray
66							
67							
68							
69	SS-16	68.5'-70.0'	27	9-12-15	100	1.7	
70		T	•				
71							
72 73							
74	SS-17	73.5'-75.0'	29	11-14-15	100	1.9	
75							
76							
77		10200 01020 0020 0020 0020 0020 0020					
78							
79	SS-18	78.5'-80.0'	100+	59-100/3"	0	-	77.2'-79.4' HIGHLY WEATHERED ROC
80							AR 79.4'
		10 525 0 562 5 10 52 5 0 562 5 10 52 5 0 562 5					
		ISA (2-1/4" id)		comments	* Qp test is	an estimat	e of the unconfined compressive strength performe
	0' to 79.4'						d spring loaded cylinder
	: Mobile B-	an an an an an Albana an Albana an			** ground s	urface elev	ation at boring location is estimated and is not surv
Samplin	g: split-spo	on (SS)					

			ROUTE	SECTION	COUNTY	TOTAL SHEETS	NC
			T.R. 285	18-05126-00-BR		14	1
			CONTRACT 958	55	ILLINOIS PROJEC	T C-97-058-	-19
wa	ater lev	el reading					
1st	t encoun	er: 13'					
@c	ompletion						
Ba	usc	Soil cuttings					
	Class	343.7					
		342.7					
		341.7					
ms, iff,	Cł	340.7					
		339.7					
		337.7					
	СН	336.7					
		334.7					
		333.7 332.7					
		331.7 330.7					
	СН	330.7					
		328.7 327.7					
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5		325.7					
		524.1					
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wa	ater lev	el reading					
1st	t encoun						
1st wa @co	t encoun ater lev ompletior	er: 14' el reading Dry Cave					
1st wa	t encoun ater lev ompletion ckfill: usc	er: 14' el reading Dry Cave Soil cuttings					
1st wa	t encoun ater lev ompletion ckfill:	er: 14' el reading Dry Cave Soil cuttings					
1st wa	t encoun ater lev ompletion ckfill: usc	er: 14' el reading Dry Cave Soil cuttings Elev.**					
1st wa @co Ba	t encoun ater lev ompletior ckfill: USC Class	er: 14'					
1st wa @cc Ba	t encoun ater lev ompletion ckfill: usc	er: 14'					
1st wa @cc Ba	t encoun ater lev ompletior ckfill: USC Class	er: 14'					
1st wa @cc Ba	t encoun ater lev ompletior ckfill: USC Class	er: 14'					
1st wa @cc Ba	t encoun ater lev ompletior ckfill: USC Class	rer: 14' Per reading Dry Cave Soil cuttings Elev.** 343.7 342.7 341.7 340.7 339.7 338.7 338.7 337.7 336.7					
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1st wa @cc Ba	tencoun ater lev ompletior ckfill: USC Class Class Ch Ch	Image: 14' Image: 14' <thimage: 14'<="" th=""> <thimag< td=""><td></td><td></td><td></td><td></td><td></td></thimag<></thimage:>					
1st wa @cc Ba	tencoun ater lev ompletior ckfill: Usc Class Class Chast Cha	Image: 14' Image: 14' <thimage: 14'<="" th=""> <thimag< td=""><td></td><td></td><td></td><td></td><td></td></thimag<></thimage:>					
1st wa @cc Ba	tencoun ater lev ompletior ckfill: USC Class Class Ch Ch	Image: 14' Pading Pading Dry Cave Soil cuttings Soil cuttings Soil cuttings Elev.** 343.7 342.7 342.7 343.7 340.7 339.7 338.7 333.7 336.7 333.7 333.7 333.7 333.7 333.7 333.7 333.7 333.7 333.7 333.7 333.7 332.7 330.7 330.7 330.7 329.7					
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