04-27-2018 LETTING ITEM 173

INDEX OF SHEETS

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DESCRIPTION

SUMMARY OF QUANTITIES

AND GENERAL NOTES

TYPICAL SECTIONS 4. PLAN AND PROFILE

CROSS SECTIONS 5.-8.

9.-16. BRIDGE PLANS

BORINGS

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID - S.T.P. BRIDGE

HIGHWAY STANDARDS:

000001-06 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

TEMPORARY EROSION CONTROL SYSTEMS 280001-07

515001-03

NAME PLATE FOR BRIDGES

701901-07 725001-01 TRAFFIC CONTROL DEVICES OBJECT AND TERMINAL MARKERS

BLR 21-9

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

BLR 22-7

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAY (TWO-LANE TWO WAY RURAL TRAFFIC) (ROAD CLOSED TO THRU TRAFFIC)

TOWNSHIP ROUTE 403 SECTION 09-08141-00-BR **PROJECT NO. M5H4(956) DRAINAGE DITCH** WHITE COUNTY

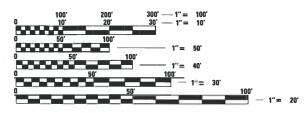
C-99-518-10

UTILITIES

FRONTIER COMMUNICATIONS 200 WEST CHERRY STREET CARMI, IL 62821 618-382-2887

COUNTRYMARK 1200 REFINERY ROAD MT VERNON, IN 47620 812-838-8545

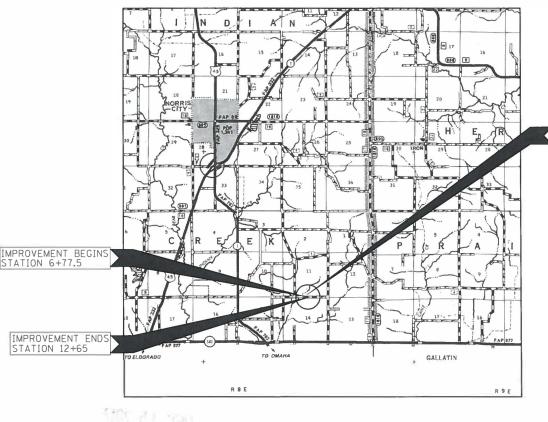
WAYNE-WHITE ELECTRIC DRAWER E FAIRFIELD, IL 62837



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

FUNCTIONAL CLASSIFICATION: DESIGN SPEED: DESIGN TRAFFIC:

LOCAL ROAD 30 MPH 25 ADT (2016)



APPROXIMATE SCALE:

NET LENGTH OF SECTION = 587.5 FT. = 0.111 MILE

Know what's below. Call before you dig.

COUNTY TOTAL SHEET NO.

WHITE 17 1 SECTION COUNTY 09-08141-00-BR ILLINOIS CONTRACT NO. 99588

WHITE



STATION 10+00
PRECAST PRESTRESSED CONCRETE DECK
BEAM BRIDGE. SINGLE SPAN @ 70'-0"
24'-0" RDWY; SKEW = 35°
EXISTING STRUCTURE NO. 097-3161
PROPOSED STRUCTURE NO. 097-3277





WHITE COUNTY HIGHWAY DEPARTMENT esembre Buink COUNTY ENGINEE Der W. Helle DISTRICT NIME DISTRICT NINE ENGINEER OF LOCAL ROADS & STREETS Releasing For Bid Based on DEC. 18 Ther L. Ken FIEGON FIVE ENGINEER





184-000959 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORF

PROJECT NUMBER: 15.1431

CONTRACT NO. 99588

-		SUMMARY OF QUANTITIES		
		ITEM	UNIT	TOTAL
	20100500	TREE REMOVAL, ACRES	ACRE	0,1
-	20200100	EARTH EXCAVATION	CU YD	112.0
1	20300100	CHANNEL EXCAVATION	CU YD	270.0
	20400800	FURNISHED EXCAVATION	CU YD	879.0
	28100807	STONE DUMPED RIPRAP, CLASS A4	TON	508.0
***************************************	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	465.0
1	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1,0
	50300225	CONCRETE STRUCTURES	CUYD	29.6
ŀ	50300280	CONCRETE ENCASEMENT	CU YD	3,4
	50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQFT	1680.0
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3110.0
	50900205	STEEL RAILING, TYPE S1	FOOT	139.0
	51201400	FURNISHING STEEL PILES HP10X42	FOOT	750.0
1	51202305	DRIVING PILES	FOOT	750.0
-	51500100	NAME PLATES	EACH	1.0
1	542A0229	PIPE CULVERTS, CLASS A. TYPE 1 24"	FOOT	50,0
-	542A0241	PIPE CULVERTS, CLASS A, TYPE 1 36"	FOOT	50,0
1	58700300	CONCRETE SEALER	SQFT	115.0
1	67100100	MOBILIZATION	LSUM	1.0
1	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4.0
1	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0,5
ŀ				

^{*} SEE SPECIAL PROMSIONS

* SPECIALTY ITEMS

STONE DUMPED RIPRAP,	CLASS A4
LOCATION - DITCH AREAS	28100807
LOCATION - DIT OF AREAS	TON
T ,R, 403	
STA 9+25 RT. TO STA 9+45 RT	13.0
STA 10+60 LT. TO STA 11+00 LT	25.0
STA 10+70 RT TO STA 10+75 RT	5,0
STA 11+49 LT TO STA 11+54 LT	5.0
TOTAL	48.0

AGGREGATE SURFACE COUR	SE, TYPE B
LOCATION	40200800
COOMION	TON
T.R. 403	
STA 6+77.5 TO STA 9+64.19	180,0
STA 10+35.81 TO STA 12+65	140.0
FILL NEXT TO BRIDGE	50,0
FIELD ENTRANCE	
STA 8+50 RT	38.0
STA 10+58 RT	28.0
STA 11+24 LT	29,0
TOTAL	465

GENERAL NOTES

- 1 THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, SPECIAL PROMSIONS AND "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016, "THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- 2 ALL CLEARING AND GRUBBING, FENCE REMOVAL REMOVAL OF EXISTING DRAINAGE STRUCTURES, AND REMOVAL OF THE EXISTING ROADWAY SURFACE SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- 3 UTILITIES SHOWN WERE LOCATED PER QUALITY LEVEL "C", A.S.C.E. STANDARD CI38-02, STANDARD GUIDELINE FOR THE COLLECTION AND DEPICTION OF EXISTING SUBSURFACE UTILITY DATA FARE FROM SURFACE MARKINGS ONLY, UTILITIES SHALL BE FIELD LOCATED HORIZONTALLY AND VERTICALLY PRIOR TO BEGINNING ANY WORK, THE CONTRACTOR IS RESPONSIBLE FOR THE FIELD LOCATION OF THESE UTILITIES.
- 4 IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL EXISTING FIELD DIMENSIONS AND CONDITIONS PRIOR TO CONSTRUCTION AND ORDERING
- 5 ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER LISTED ON THE INDEX OF SHEET'S OR THE COPY OF THE STANDARD INCLUDED IN THE PLANS.
- 6 THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.

AGGREGATE SURFACE COUSRE STONE RIPRAP

2.05 TONS/CU.YD.

1.8 TONS/CU.YD.

7 EARTHWORK COMPACTION SHALL BE TO THE SATISFACTION OF THE ENGINEER.

SCALE:

- 8 THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITY: SEEDING CLASS 2 (SPECIAL) = 0.5 ACRES
- 9 ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR, NO ADDITIONAL COMENSATION WILL BE ALLOWED.

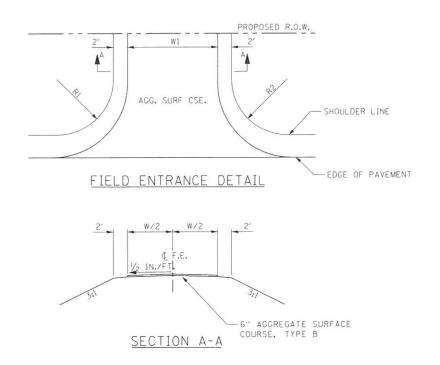
ENTRANCE SCHEDULE									
STATION	LOC	TYPE	W1 WIDTH FOOT	R1 RADIUS · FOOT	R2 RADIUS FOOT				
8+50	RT.	FE	20	15	15				
10+58	RT.	FE	10	20	20				
11+24	LT.	FE	20	15	15				

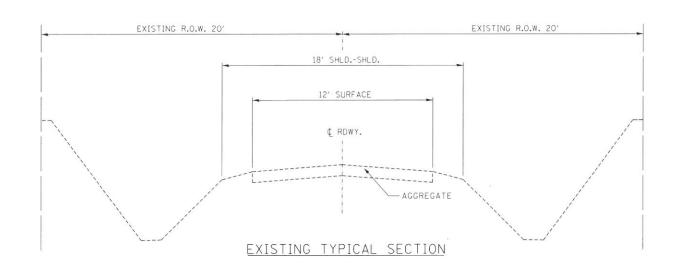
		EARTHW(ORK SUMN	IARY			
	EARTH	CHANNEL	SHRINKAGE	%	EARTH	EMBANKMENT	EARTHWORK
	EXCAVATION	EXCAVATION	FACTOR	USED	EXCAVATION	REQUIRED	BALANCE
					ADJUSTED FOR		WASTE (+) OR
LOCATION					SHRINKAGE(25%)	-	SHORTAGE (-)
	20200100	20300100		***************************************			
	CU. YD.	CU, YD.		***************************************	CU, YD.	CU, YD.	CU. YD.
T.R. 403							
STA 6+77.5 TO STA 9+64.19	43,8	0.0	25.00%	100.00%	33.0	611.5	-579.0
STA 9+64.19 TO STA 10+35.81	0,0	270,0	25.00%	50.00%	101.0	0.0	101.0
STA 10+35,81 TO STA 12+65	67.8	0.0	25.00%	100.00%	51.0	309,4	-258.0
FIELD ENTRANCE							
STA 8+50 RT	0.0	0.0	25.00%	100,00%	0.0	39.3	-39.0
STA 10+58 RT	0.0	0.0	25.00%	100.00%	0.0	84.9	-85.0
STA 11+24 LT	0.0	0.0	25.00%	100.00%	0.0	18.8	-19.0
	111.6	270			185	1063.9	-879
				FURNISH	ED EXCAVATION	879	CU.YD.

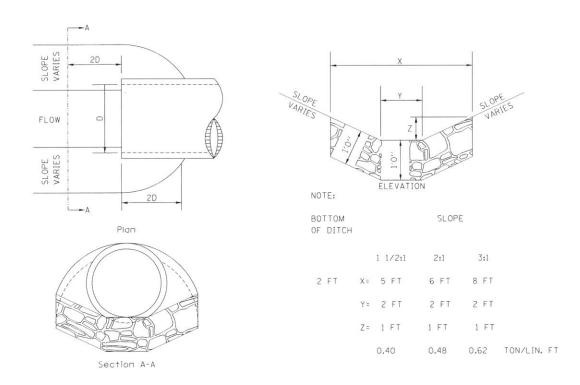
1 A V A 22 12 14 15 15 15 15 15 15 15 15 15 15 15 15 15	HLR 308 NO = 15.1431	DESIGNED - E.L.P.	REVISED -
LAVA TRANSPORT		ORAWN + C.L.O.	REVISED -
ENGINEERING		CHECKED	REVISED -
ELINGS AND ESSONAL DESIGN FRM LS FE SE CLAF BRANCHE	PLOT DATE = 12/1/17	DATE - 12/1/17	REVISED ~

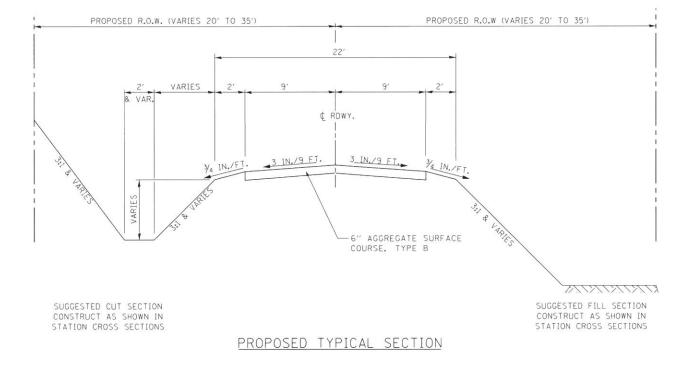
STATE	OF	ILLINOIS	
DEPARTMENT	OF 1	FRANSPORTATION	

	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SUMMARY OF QUANTITIES AND GENERAL NOTES	403	09-08141-00-BR	anl (E	17	2
			CONTRACT	NO.	99588
SHEET 1 OF 1 SHEETS STA. TO STA.		[ICLPACIS] FEEL AL	0 PR0.EC1		





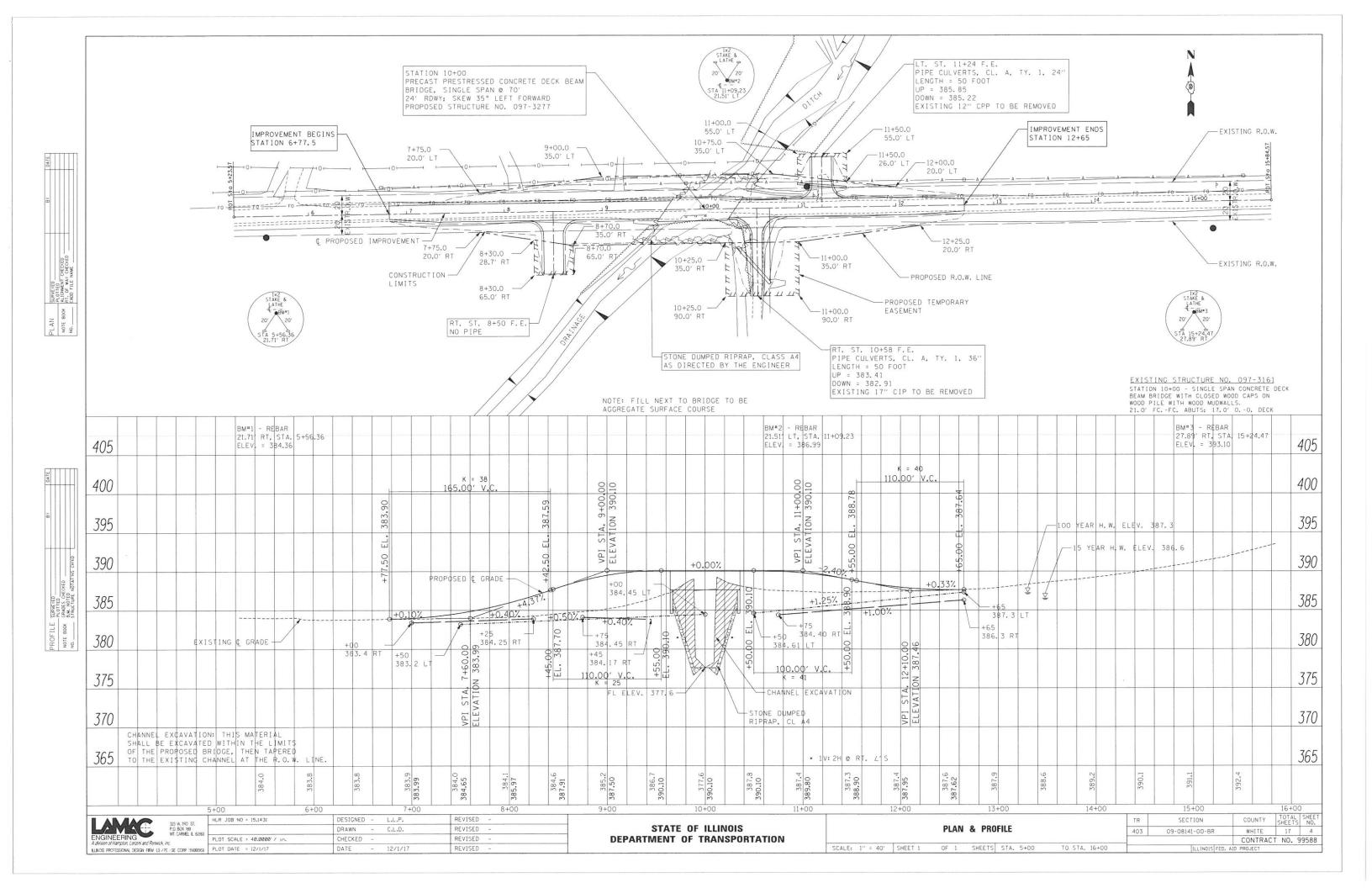


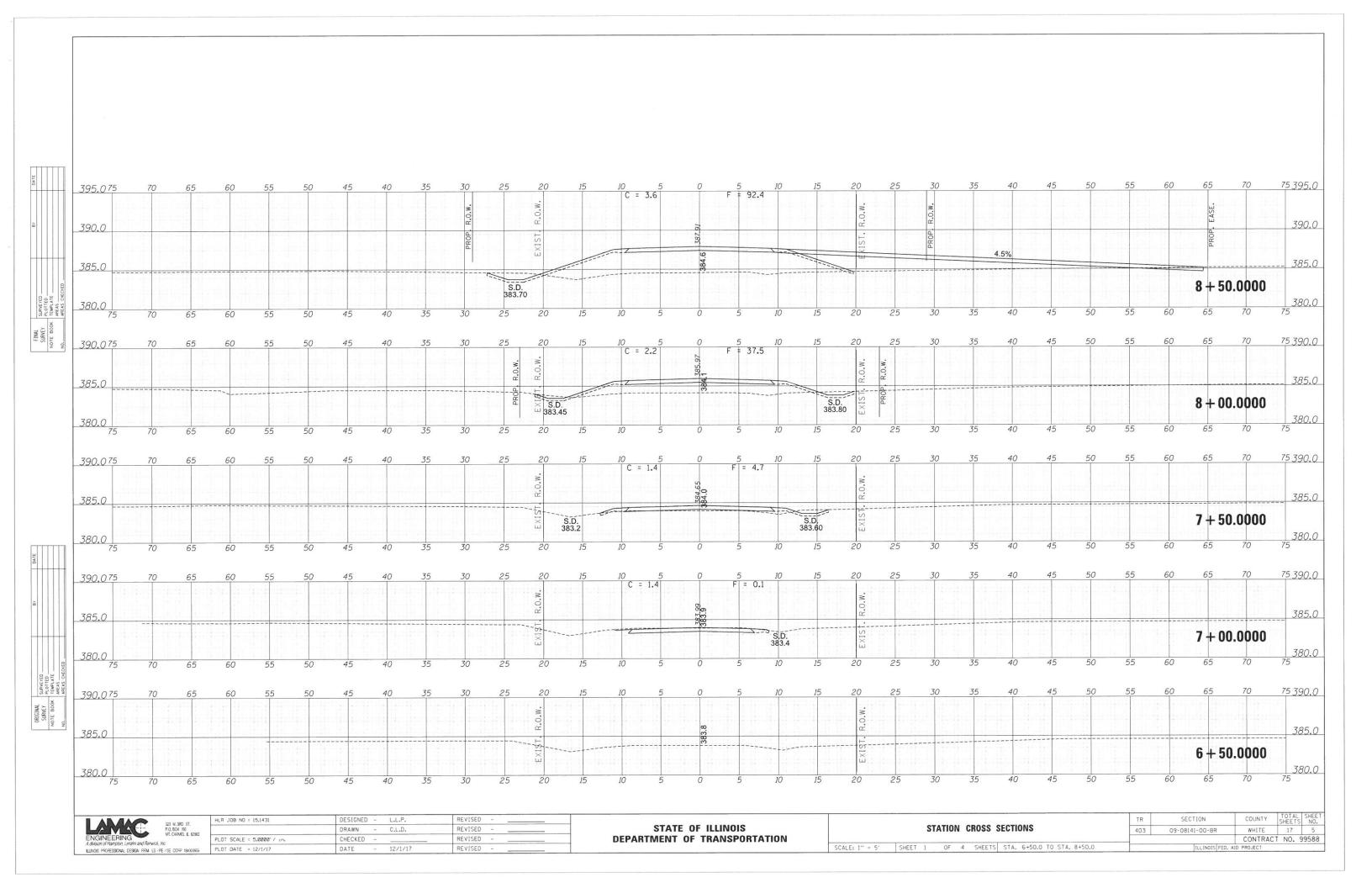


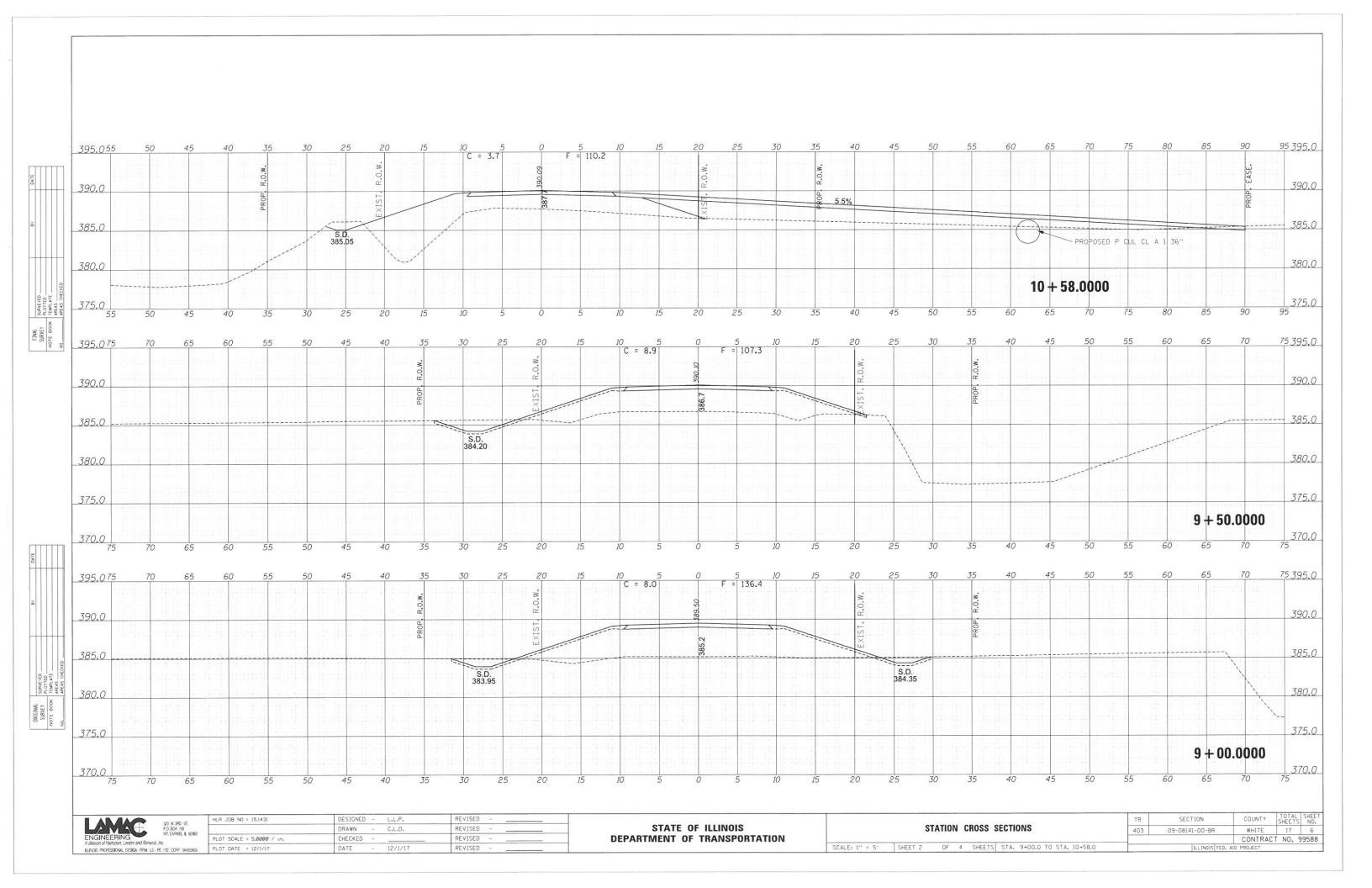
STONE DUMPED RIPRAP, CLASS A4 DITCH AREA DETAILS

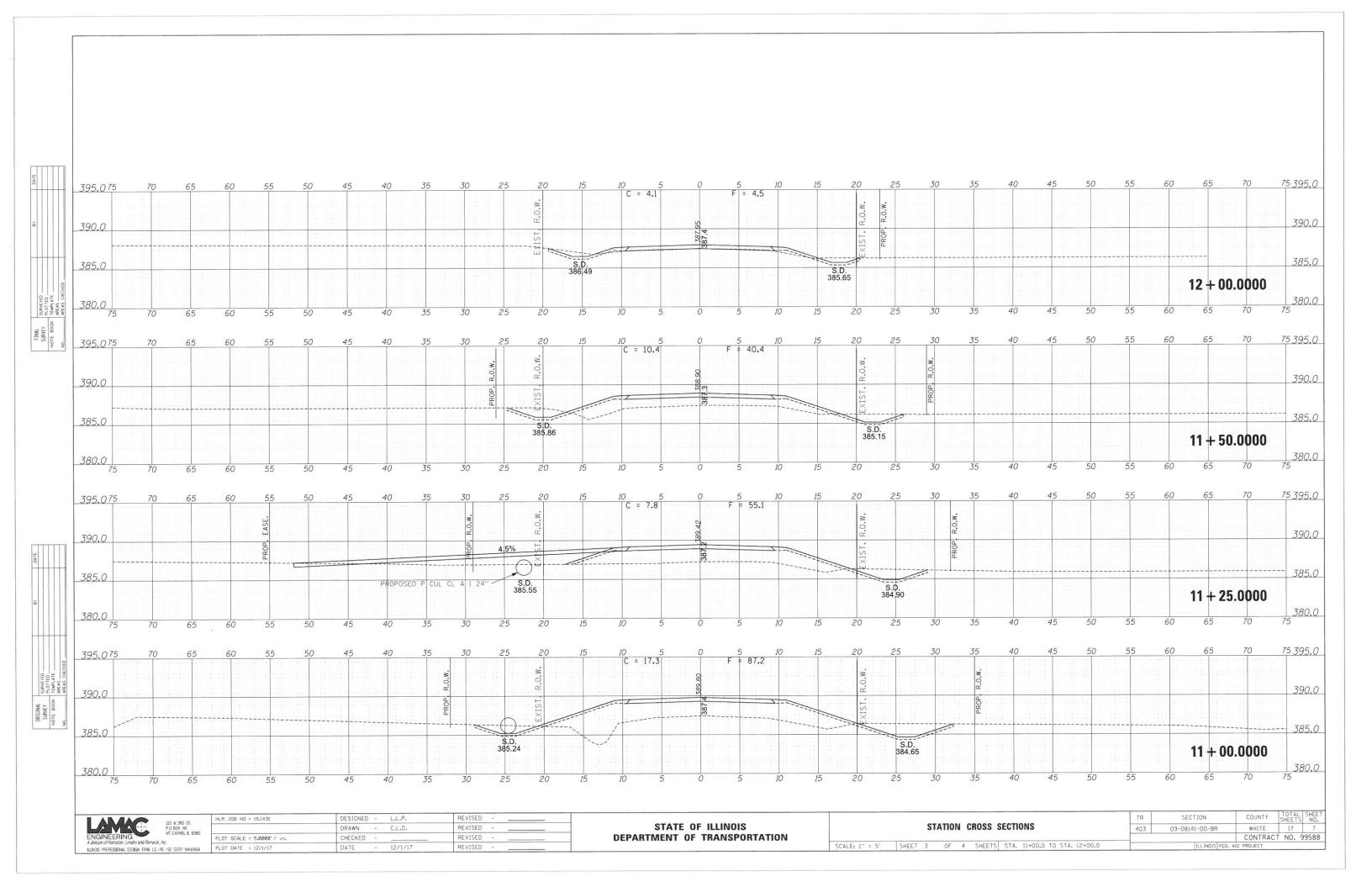
TRANSITIONS FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY ARE TO BE CONSTRUCTED FROM STA. 6+77.5 TO 7+27.5 AND STA. 12+15 TO 12+65. SEE SHEET 9 FOR TRANSITION AT BRIDGE.

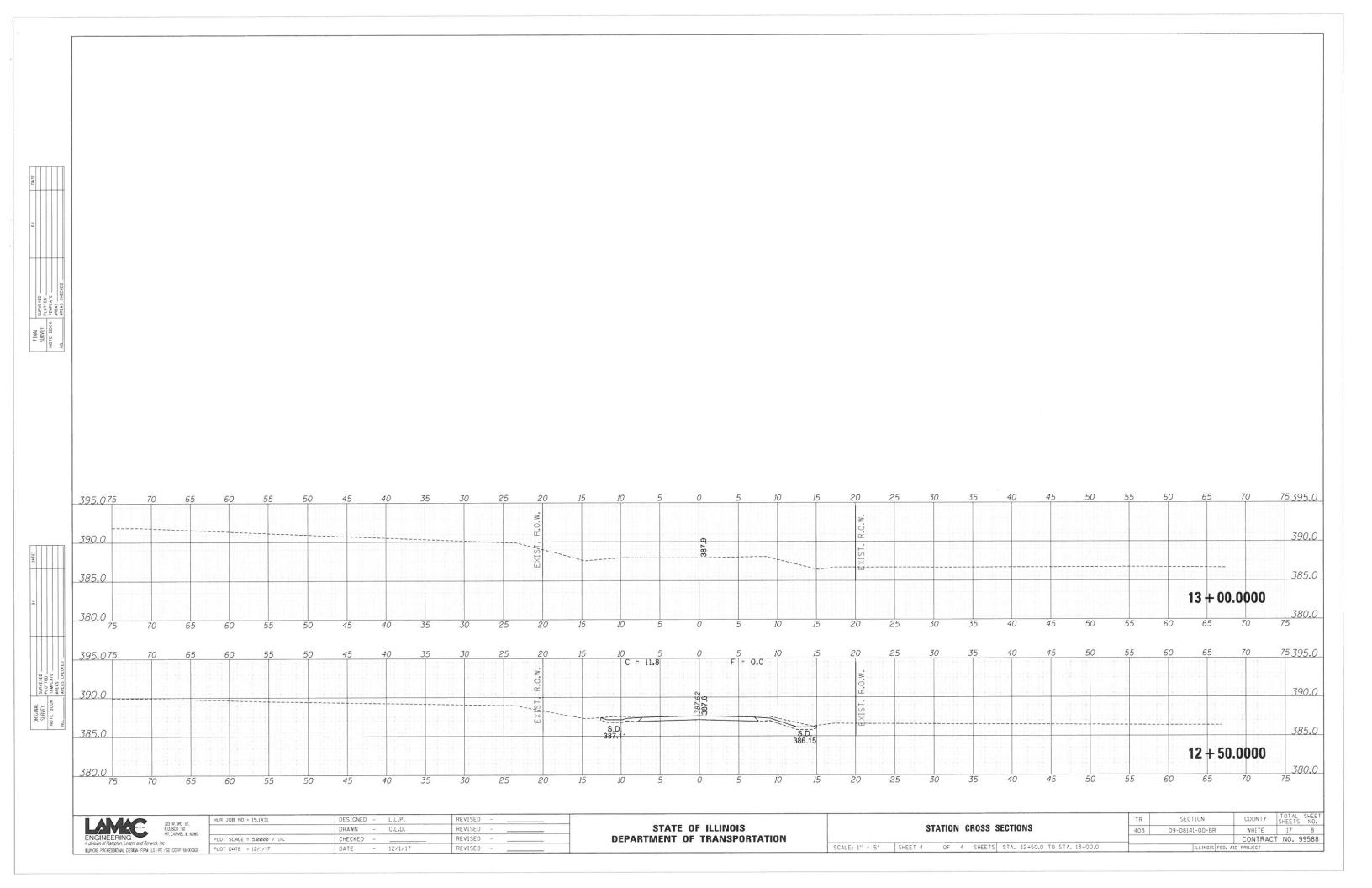
323 W. SPD ST. HLR JOB NO = 15.1431	DESIGNED - L.L.P.	REVISED -									SECTION	COUNTY	TOTAL SH'	ET.
P.O. BCX 160	DRAWN - C.L.D.	REVISED -	STATE OF ILLINOIS	TYPICAL SECTIONS						403	09-08141-00-BR	WHITE	17	3
ENGINEERING A dissipar of Hamming Landing and Reputick Inc.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION									CONTRAC	T NO. 995	88
ILINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP 184000959 PLOT DATE = 12/1/17	DATE - 12/1/17	REVISED -		SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

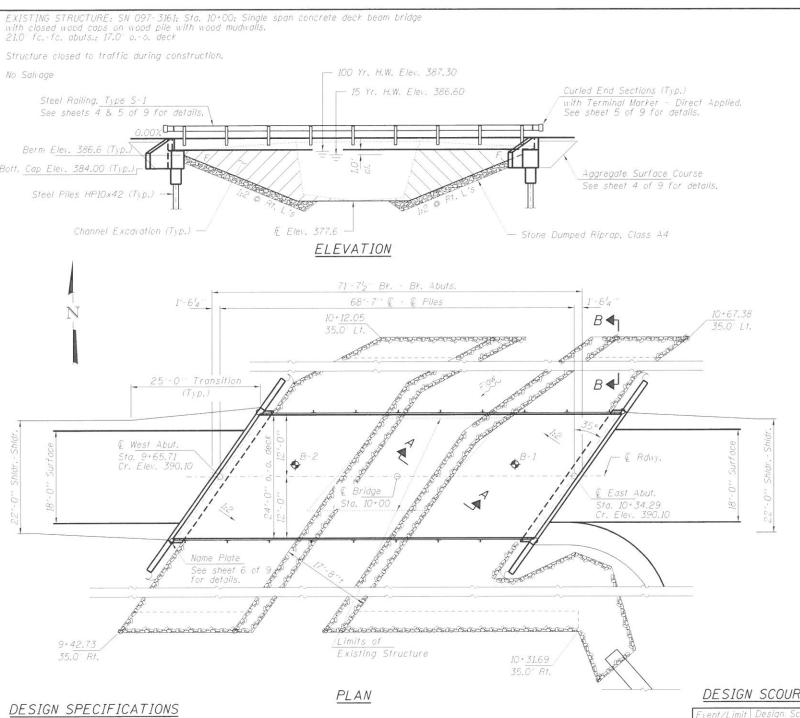


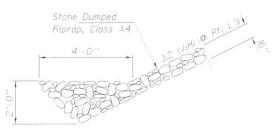




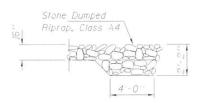








SECTION A-A



SECTION B-B

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. Reinforcement bars designated (E) shall be epoxy coated. Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. No additional compensation will

be allowed for Structure Excavation.

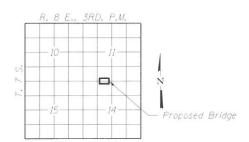
All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act.

The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.

Concrete Sealer shall be applied to the designated areas of

INDEX OF STRUCTURE SHEETS

General Plan & Elevation 27"x48" PPC Deck Beam 27"x48" PPC Deck Beam Details Steel Railing, Type S-1 HP Pile Details 8-9. Borings



LOCATION SKETCH

BUILT 201_ BY WHITE COUNTY SEC. 09-08141-00-BR INDIAN CREEK ROAD DISTRICT STR. NO. 097-3277 LOADING HL-93

NAME PLATE

DESIGN SCOUR ELEVATION TABLE

Event/Limit	Design Scour	Item	
State	W. Abut.	E. Abut.	113
0100	384.0	384.0	
0200	384.0	384.0	0
Design	384.0	384.0	8
Check	384.0	384.0	

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

Steven W. Megnisson 11/20/2017 ILLINOIS STRUCTURY NO. 081-6064



Expires 11-30-2018

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			270
Stone Dumped Riprap, Class A4	Ton			460
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		29.6	29.6
Concrete Encasement	Cu. Yd.		3.4	3.4
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,680		1,680
Reinforcement Bars, Epoxy Coated	Pound		3,110	3,110
Steel Railing, Type S-1	Foot	139		139
Furnishing Steel Piles HP10x42	Foot		750	750
Driving Piles	Foot		750	750
Name Plates	Each		1	1
Concrete Sealer	Sq. Ft.		115	115
Terminal Marker - Direct Applied	Each	4		4

ESIGNED L.A.P. REVISED HECKED S.W.M. REVISED HAMPTON, LENZINI AND RENWICK, INC. REVISED RAWN R.D.H. OT SCALE : \$SCALES HECKED REVISED S.W.M.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 3 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.314g Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.743g Soil Site Class = D

STATE OF ILLINOIS WHITE COUNTY HIGHWAY DEPARTMENT

TOTAL SHEE SHEETS NO. SECTION COUNTY **GENERAL PLAN & ELEVATION** 403 09-08141-00-BR WHITE STRUCTURE NO. 097-3277 CONTRACT NO. 99588 INDIAN CREEK ROAD DISTRICT SHEET NO. 1 OF 9 SHEETS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with

LOADING HL - 93

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

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi fy = 60,000 psi (Reinf.)

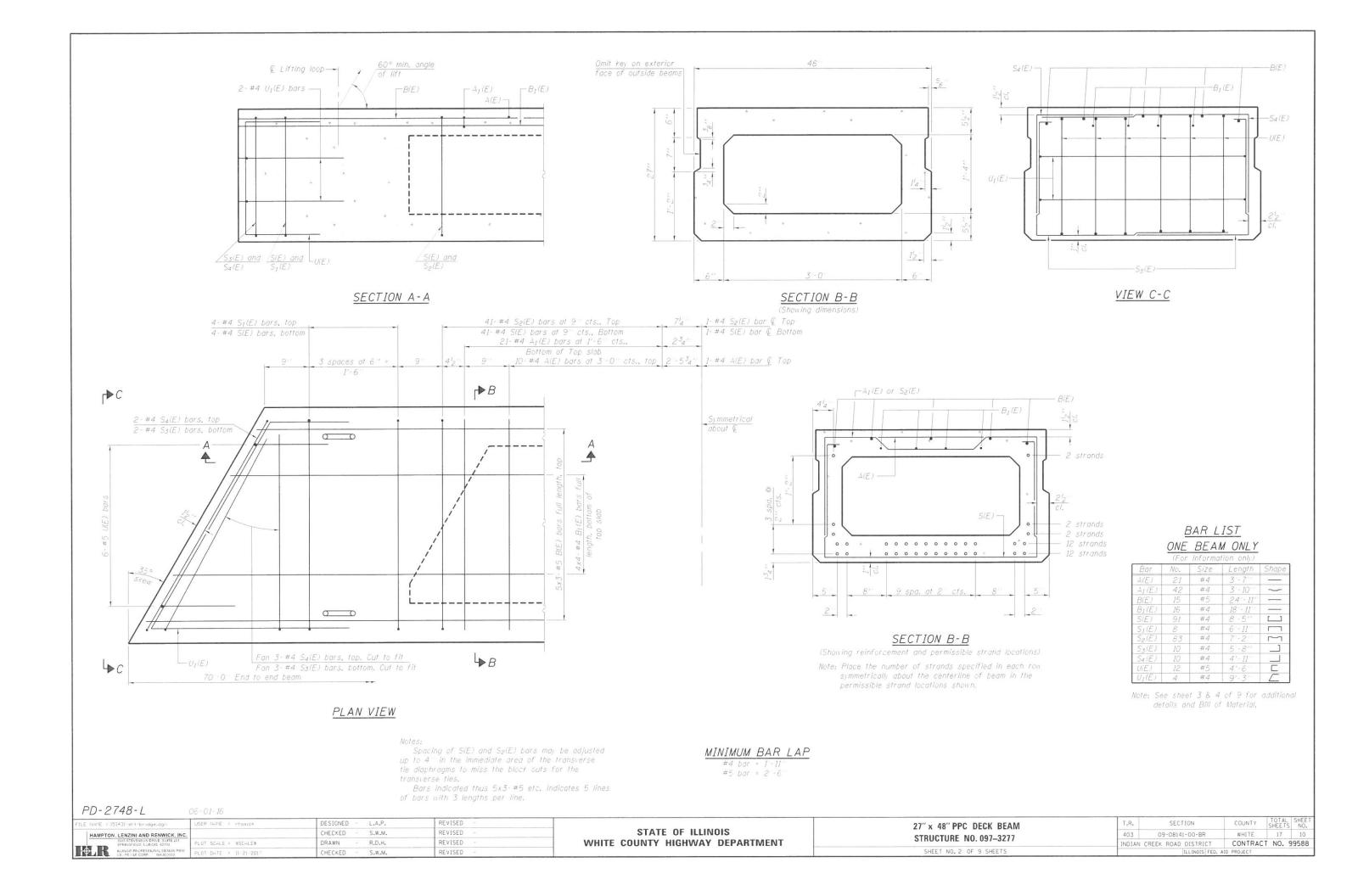
PRECAST PRESTRESSED UNITS

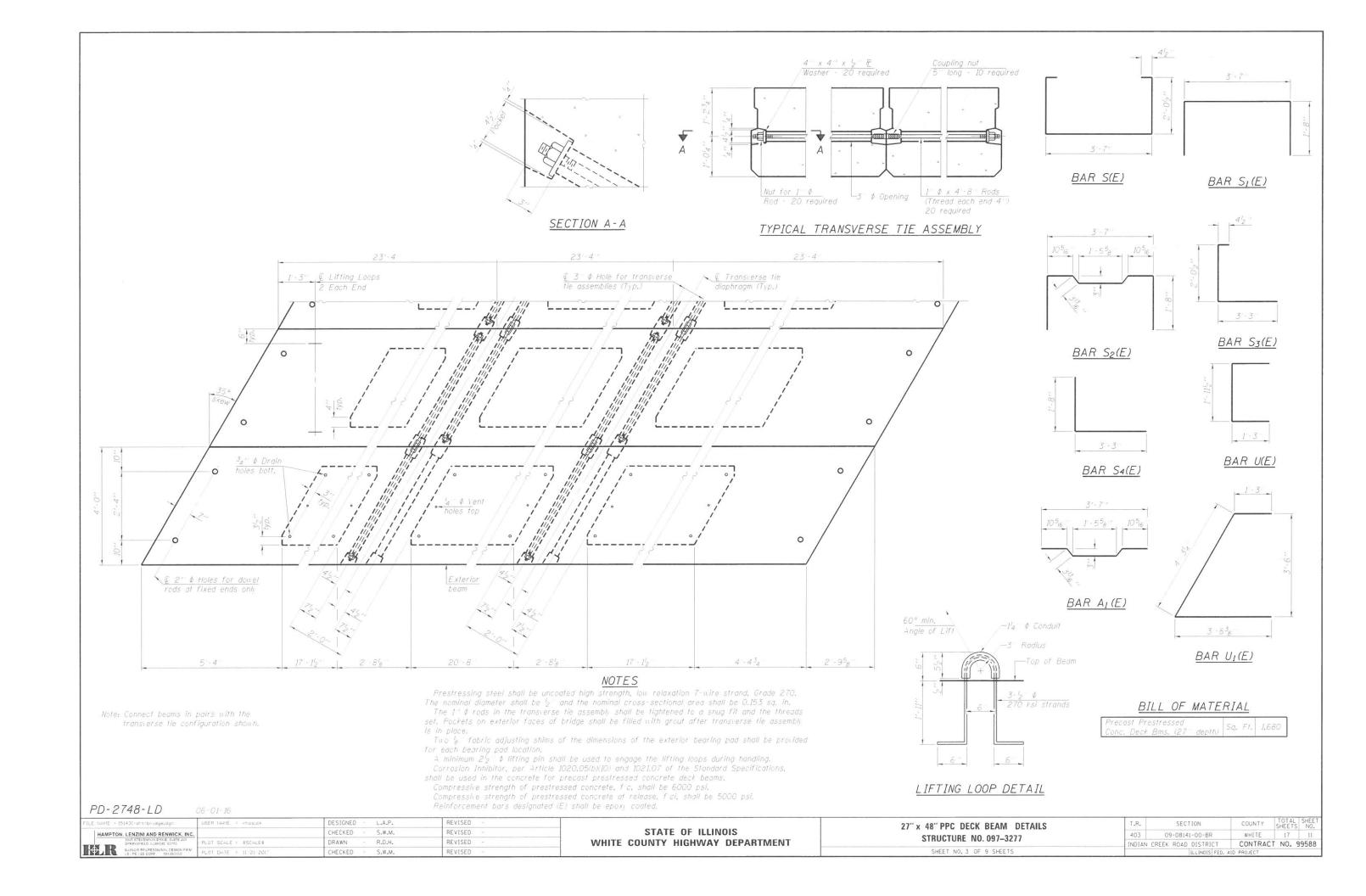
Existing Low Grade Elev. 383.9 © Sta. 6+85

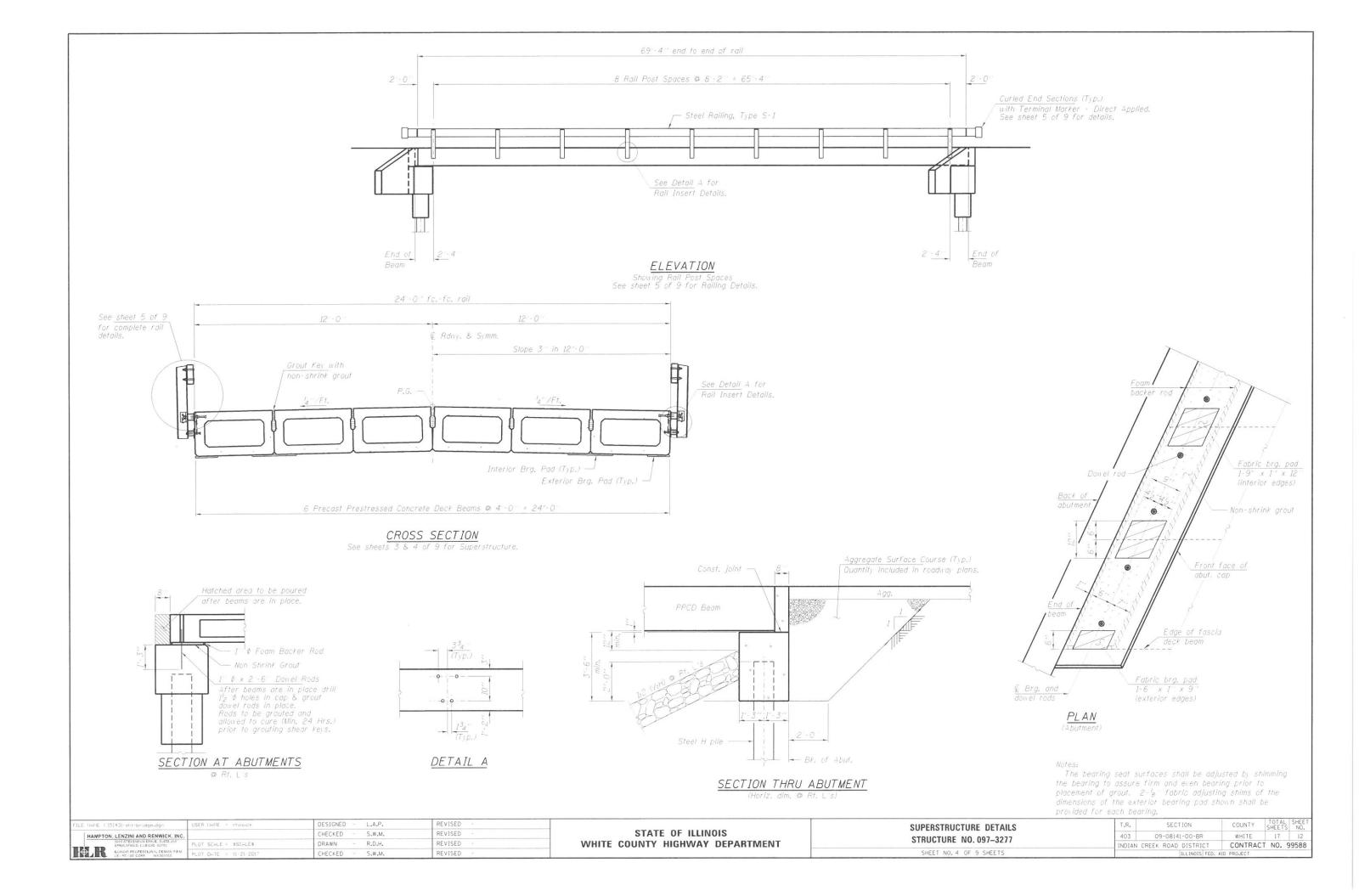
WATERWAY INFORMATION

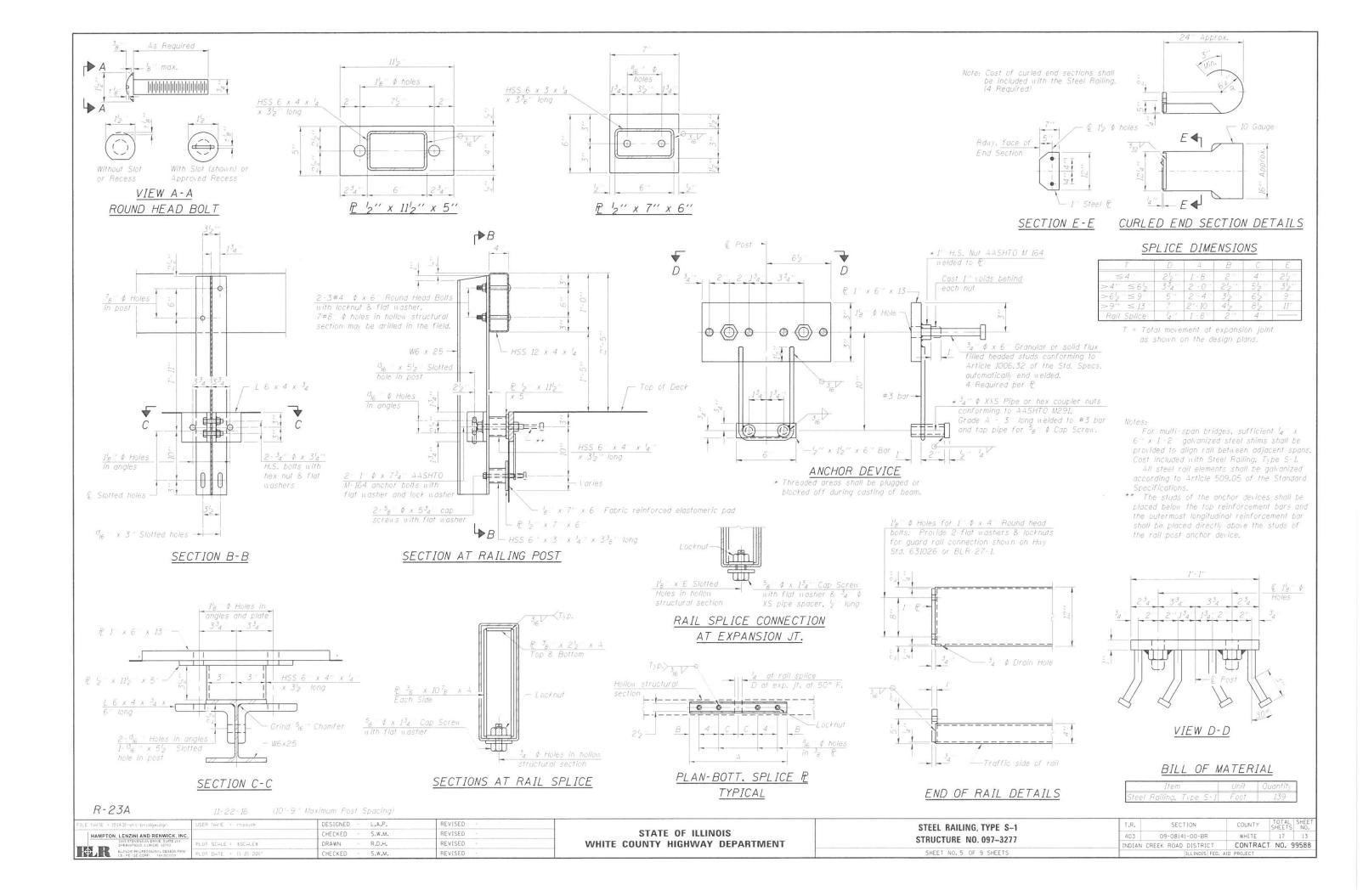
Drainage Area	- 1.0	54. WI.	1-1	upuseu i	-011 6/00	Je Liev.	202.2	Gr 5/0.	0.00	
C1	Freq.	0	Opening	Sq. Ft.	Natural	Head - Ft.		Headwater El.		
Flood	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.	
	10	670	150	310	386.39	0.41	0.00	386.80	386.39	
Design	15	780	150	320	386.59	0.85	0.24	387.44	386.83	
Base	100	1360	160	360	387.26	0.02	0.03	387.28	387.29	
Scour Check	200	1580	170	370	387.49	0.00	0.04	387.49	387.53	
May Calo	500	1910	170	380	387 78	0.04	0.07	387.82	387.85	

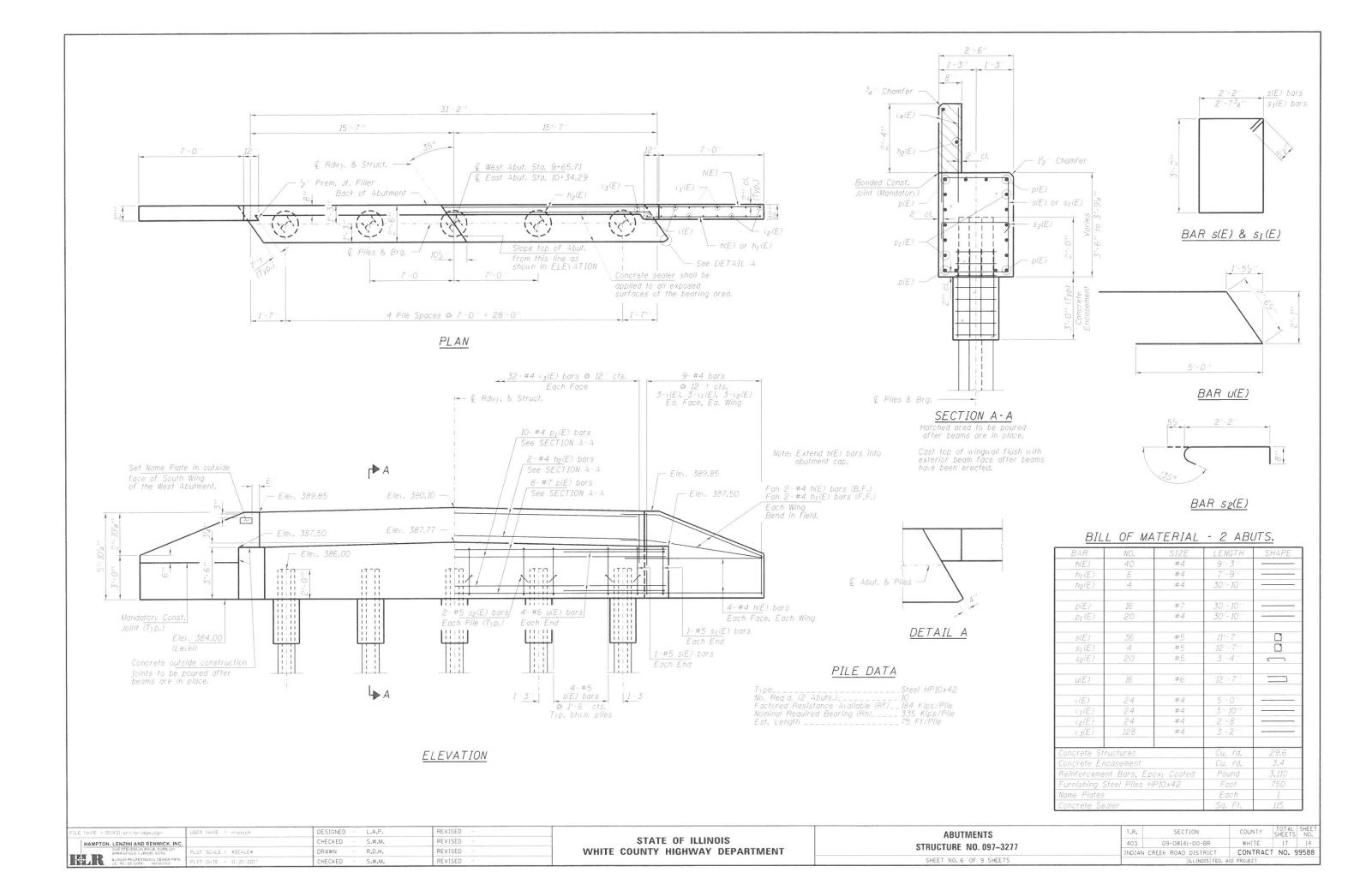
10 Year Velocity through Proposed Bridge = 2.2 fps

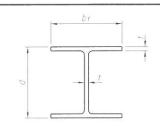






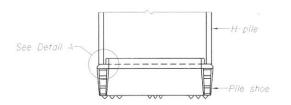




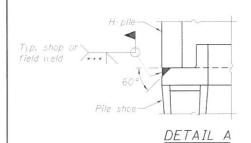


STEEL PILE TABLE

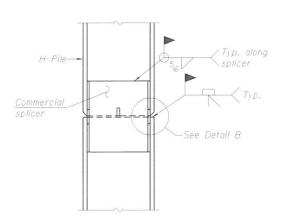
Designation	Depth d	Flange width b _f	Web and Flange thickness t	Encasement diameter A
HP 14×117	1414"	14 78	1316	30**
x102	14"	1434	1/16	30"
x89	1378	1434	58	30
x73	1358"	14 58	12	30"
HP 12x84	124"	124	1/6	24"
x74	12'5"	124	58"	24''
x63	12''	12%	2"	24"
x53	1134	12"	716	24
HP 10x57	10 11	104	916	24''
x42	934"	10%	716	24''
HP 8x36	8′′	88"	7/6	18**



ELEVATION

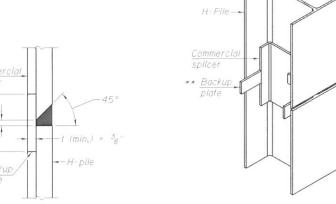


H-PILE SHOE ATTACHMENT

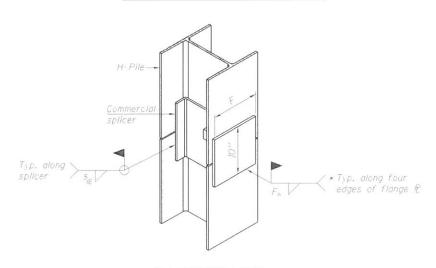


ELEVATION

DETAIL "B"



WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

Concrete Bottom of bile cab

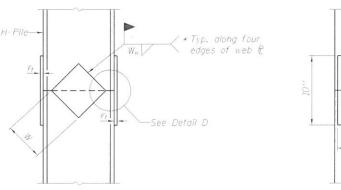
ELEVATION

Welded wire fabric 6 x 6W4.0 x W4.0 weighing 58#/100 sq. ft. Bend as required to fit into wall. H-pile Note:

Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

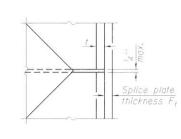
PILE ENCASEMENT



F_w * Typ. along four edges of flange £

ELEVATION

END VIEW



DETAIL D

Designation	F	F_1	Fw	W	W_t	W_{ii}
HP 14×117	12'2"	1''	78	734"	58"	12"
x102	12/2"	78	34''	734	58"	2"
x89	12/2"	34	116	734	58	2
x73	1212"	58	9/6	734.	58"	1211
HP 12x84	10"	78''	116	62"	58	2"
x74	101	78	11/6	62"	58	2
x63	10 ′′	58	2"	62"	12"	3,
x53	101	58	12	62"	2"	3,
HP 10x57	8"	34	9/6	54	12	38
x42	8	58	9,6	54	12	38
HP 8x36	700	58	716	414	12	38

WELDED PLATE FIELD SPLICE

WELDED COMMERCIAL SPLICE ALTERNATE

Interrupt welds ¼ from end of web and/or each flange.

*** Weld size per pile shoe manufacturer ($^{5}_{16}$ min.).

** Remove portions of backup plates that extend outside the flanges.

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

r		1 1	0
-	-	\vdash	\vdash

		-	

	L ' 1L			
E NAME = 151431-sht-bridge.dgn	USER NAME = rhosick	DESIGNED - L.A.P.	REVISED -	Γ
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	1
5035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, I_LINGIS, 52703	PLOT SCALE = \$SCALES	DRAWN - R.D.H.	REVISED -	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184,009959	PLDT DATE = 11/21/2017	CHECKED - S.W.M.	REVISED -	

STATE OF ILLINOIS
WHITE COUNTY HIGHWAY DEPARTMENT

ISOMETRIC VIEW

HP PILE DETAILS	T,R,	SECTION	COUNTY	TOTAL	SHEET NO.
STRUCTURE NO. 097-3277	403	09-08141-00-BR	WHITE	17	15
31NUCTURE NO. 037-3277	INDIAN	CREEK ROAD DISTRICT	CONTRAC	T NO. 9	39588
CHEET NO 7 OF 9 CHEETS		L. Word FED	10 000 507		

P.O. Box 88 Carbondale, II. 62903					ion Boring Log	Page 1 of 2
Project: H-16050 Bride Section: 09-08141-00-BR Stat Structure: 097-3161 County: White	ne TR_	40	3 04	or	Creek Borea	Date: 4/7/2016 d by: J. Carter d By: T. Holcomb
Boring No: 1 Station: Offset:	Elevatio	z	Qu tsf	% ×	During Drinning	levation u tsf
Ground Surface 99, 3" Crushed Stone 388 Brown Clayey SILT (A-4)	7 0				silty clay (continued)	=
<u>385.2</u> 96.2		6		18		-25 4 0.9B 2
Brown Fine to Medium SAND (A-2-4)		4		6		6 0.8B 2
93.7 Gray Clayey SAND (A-2-4)		2		22		6 1.5B 1
Gray Mottled Brown Silty CLAY (A-6)	-10	7	1.15	21		
88.7 Brown Mottled Gray Sandy CLAY (A-6)	_	5	0.2B	20		
85.7 Brown Mottled Gray Silty CLAY (A-6)		7	1.95	28		
		6	0.9B	33		
	- <u>20</u>	9	1.8B	25		
367.2 78.2 Gray CLAY (A-6) with pebbles		6	1.4B	32		
N = Standard Penetration Blows per foot to drive 2 Split Spoon Sampler 12" w a 140 lbs. hammer falling	" O.D. ith	St	reng -Wat	th er	in tons/sq.ft. $S = Content-percentage E = Content-percentage E$	Bulge Failure Shear Failure Estimated Value Penetrometer

Carbondale, II. 62903					Pa	ge 2	of .
			-	ion Boring Log			
Project: H-16050 Bridg	ge <u>TR-4</u>	03 ov	/er	Creek	Date:	4/7/	2016
Section: 09-08141-00-BR Stoti Structure: 097-3161	on		_	Bore	d by:	J. Car	ter
County: White				Checked			
Boring No: 1	_ L ₀	tsf		Surface Water Elev.		r.	4
Station:	Elevation		1%	Ground Water Elev. During Drilling		Elevation	tst
on our	_	2 3	3	During Dinning		Z E	٥٥
silty clay (continued)	45 1	2 1.7B	17	silty clay (continued)	Eu		
				1963			
						100 -70 /5"	
340.					-	-70 /5	2.58
Gray Fat CLAY (A-7-6)							
	-50	7 2.8B	22		-		
				7.7	4.2		
				25	5.2	33	
				Brown Mottled Gray Weathered SHALE	-	-75	
	-55 ⁸	0.88	40	37	0.2	- 1	
	_			- Lancinos	.2	100	
				Gray SHALE		/5"	
	_				7	-80	
					-	100	
	-60 ⁹	1.7B	30			$\dashv \exists$	
	-				4.7	100	
			1	End of Boring @ -84.0'	5.7	/4"	
325.				End of Borning & -64.0	-	-85	
Gray Silty CLAY (A-6) with					-		
Gray Silty CLAY (A—6) with trace sand	-65 ¹	3 2.9B	21		Sec.		
			П		-		
						_	
N = Standard Penetration To	est (Qu-Ur	1001	nfined Compressive B =	Bulge	Failure	
N = Standard Penetration To Blows per foot to drive 2" Split Spoon Sampler 12" with	0.0. S h v	w-Wat	ter	Content-percentage E =	Estimo	Failure ated Vo	lue
a 140 lbs. hammer falling 3	OU_	of	OV	en dry weight-% P =	Penet	romete	

BORING-1

FILE NAME = 151431-sht-bridge.dgr	USER NAME = rhosick	DESIGNED - L.A.P.	REVISED -		BORINGS	T.R. SECTION	COUNTY TOTAL SHEET SHEETS NO.
HAMPTON, LENZINI AND RENWICK, INC	±.	CHECKED - S.W.M. REVISED - SIAIF OF ILLINOIS		STRUCTURE NO. 097-3277	403 09-08141-00-BR	WHITE 17 16	
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINIOIS 82703	PLOT SCALE : \$SCALE\$	DRAWN - R.D.H.	REVISED -	WHITE COUNTY HIGHWAY DEPARTMENT	31HUCTURE NO. 097-3211	INDIAN CREEK ROAD DISTRICT	CONTRACT NO. 99588
ILLINOIS PROFESSIONAL DESIGN FIRM	PLOT DATE : 11/21/2017	CHECKED - S.W.M.	REVISED -		SHEET NO. 8 OF 9 SHEETS	ILLINOIS FED.	AID PROJECT

Bridge	e F	OLI	nde	at	ion Boring Log					
Project: U 15050 Bridge	TD	407	3 000	ar I	Oraal	D - L -	: 4/	/R /	2016	
Section: <u>09-08141-00-B</u> R Statio Structure: 097-3161	n	400) OV	31 '	O COLOR	Date	2: _ 4/	0/	2010	_
					Checke					
County: White							لبل	1010	omb	
Boring No: 2 Station:	. uo		tsf		Surface Water Elev.		Elevation	ıl	tsf	
Offset:	Elevation			%	Ground Water Elev. During Drilling Dry		evat			100
011301.	E	z	8	3	Upon Completion Dry		ŭ	z	0	3
Ground Surface 99.5	0			Н	silty clay (continued)			\vdash		
3" Crushed Stone Brown Silty CLAY (A-6) 388.5							-			
Stome only obtained as	_	_						-	0.5B	
		8	1.05	1/	36	2.5	-25	5	0.58	22
					7	3.5				
	_	6	1,1B	21	Gray Silty CLAY (A-6) w	ith		6	1.05	21
382.5	<u>-5</u>	-	,,,,				_			
Gray Silty CLAY (A-6)		}								
Gray Silty CLAT (A-0)		4	1.35	24			-30	5	1.3B	18
380.0										П
Gray Mottled Brown Silty				Ш						
Gray Mottled Brown Silty CLAY (A-6)	-10	7	1.85	21						
377.0	_	$\overline{}$								
Brown Mottled Gray Sandy		-		-			-	0	1.50	10
CLAY (A-6) 375.0	_	6		22			-35	0	1.5B	16
86.0								1		
Gray Mottled Brown Silty CLAY (A-6)		- 5	1.78	30						
372.5	<u>-15</u>	5		+			_	1		
Brown Mottled Gray Silty		7						-		
CLAY (A-6)		4	1.05	29	20		-40	9	0.7B	19
370.0	_	1		T						П
Gray Silty CLAY (A-6)		1					_	1		
	-20	8	2.0B	21				1		
	-	+						}		
	_	-	1.48	31				1		
N = Standard Penetration To	est	<u>5</u>	u-U	nco	onfined Compressive B =	Bul	ge Fo	ilur	re	
N = Standard Penetration To Blows per foot to drive 2" Split Spoon Sampler 12" wit a 140 lbs. hammer falling	n	S	tren	gth	in tons/sq.ft. $S =$	She	ar Fo	ailur	re	

Bridge	e F	ou	nd	at	ion Boring Log
Project: <u>H-16050</u> Bridge Section: <u>09-08141-00-BR</u> Station Structure: <u>097-3161</u> County: <u>White</u>					
Boring No: 2 Station: Offset:	Elevation	z	Qu tsf	% M	Surface Water Elev. copy Strain Count Water Elev. During Drilling Dry Strain Country During Dry Z
silty clay (continued) 340.0 51.0		12	2.28	16	Gray Silty CLAY (A-6) with pebbles -70 110 0.8
Groy Fat CLAY (A-7-6)	<u>-50</u>	15	1.8B	23	314.5 — 25.5 100 /4 5.2
		4	0.58	42	Brown SHALE
9	<u>-55</u>				309.5 100 20,5 74" End of Boring @ -79.0' -80
9	-60	5	0.78	29	
	<u>-65</u>	10	2.5B	20	
N = Standard Penetration Te Blows per foot to drive 2" Split Spoon Sampler 12" with a 140 lbs. hammer falling 3	O.D.	S	trenç —Wa	ith ter	onfined Compressive B = Bulge Failure in tons/sq.ft. S = Shear Failure Content-percentage E = Estimated Value ven dry weight-% P = Penetrometer

BORING-2

FILE NAME = 1	151431-sht-bridge.dgn	USER NAME = rhosick	DESIGNED - L.A.P.	REVISED -		BORINGS	T.R.	SECTION	COUNTY	TOTAL SHEET NO.
HAMPTOI	N, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 097-3277	403	09-08141-00-BR	WHITE	17 17
	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINGIS 62703	PLOT SCALE : \$SCALE\$	DRAWN - R.D.H.	REVISED -	WHITE COUNTY HIGHWAY DEPARTMENT	31NUCTURE NO. 097-3277	INDIAN CREEK ROAD DISTRICT			CT NO. 99588
HER	ILLINOIS PROFESSIONAL DESIGN FIRM LS : PE / SE CORF: 184,000955	PLOT DATE : 11/21/2017	CHECKED - S.W.M.	REVISED -		SHEET NO. 9 OF 9 SHEETS		ILLINOIS FED.	AID PROJECT	