STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS

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TYPICAL CROSS SECTIONS 3.

PLAN AND PROFILE

5-9. CULVERT PLANS

10-11. **BORINGS**

STATION CROSS SECTIONS 12-20.

HIGHWAY STANDARDS:

000001-07 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

515001-03 NAME PLATE FOR BRIDGES 701901-08 TRAFFIC CONTROL DEVICES

BLR 21-9

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

PLANS FOR PROPOSED

SURFACE TRANSPORTATION PROGRAM OFF SYSTEM BRIDGE

PROJECT 3RVR(557) SECTION 17-15145-00-BR LEECH ROAD DISTRICT **WAYNE COUNTY** T.R. 562 PROPOSED STRUCTURE NO. 096-5012 C-97-024-19

APPROXIMATE SCALE:

NET LENGTH OF SECTION = 280 FEET = 0.053 MILES

UTILITIES

FUNCTIONAL CLASSIFICATION:

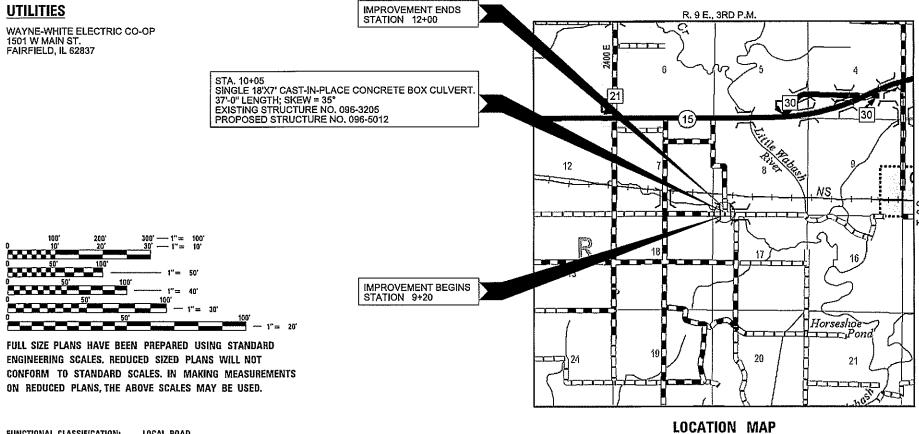
DESIGN SPEED:

DESIGN TRAFFIC-

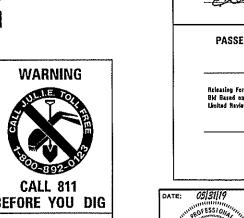
LOCAL ROAD

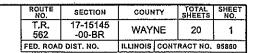
20 MPH

25 ADT

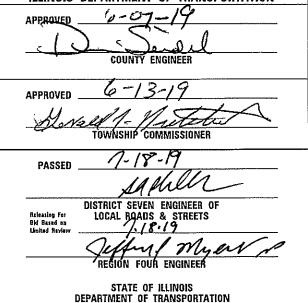


WARNING **CALL 811 BEFORE YOU DIG** DIG NO: X2881752











HAMPTON, LENZINI AND RENWICK, INC. CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546,3400 www.hitengineering.com

DATE: 05/31/19

CONTRACT NO. 95860 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

		SUMMARY OF QUANTITIES		
	CODE NO.	ITEM	UNIT	TOTAL CONSTRUCTION TYPE CODE 0016
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	75
^	20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	100
	20200100	EARTH EXCAVATION	CU YĎ	269
^	28100807	STONE DUMPED RIPRAP, CLASS A4	TON	140
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	330
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	27,370
*	50900205	STEEL RAILING, TYPE 51	FOOT	40
	51500100	NAME PLATES	EACH	ì
	54003000	CONCRETE BOX CULVERTS	CU YD	106.3
	67100100	MOBILIZATION	L SUM	1
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
^	X0900064	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	89
	X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	430
	X2090210	POROUS GRANULAR BACKFILL, SPECIAL	CU YD	16
^	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.75
	T			L

SEE SPECIAL PROVISIONS

* SPECIALTY ITEM

GENERAL NOTES

- 1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "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, AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL AND DISPOSAL OF EXISTING BITUMINOUS & AGGREGATE PAVEMENT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 3. THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- 4. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

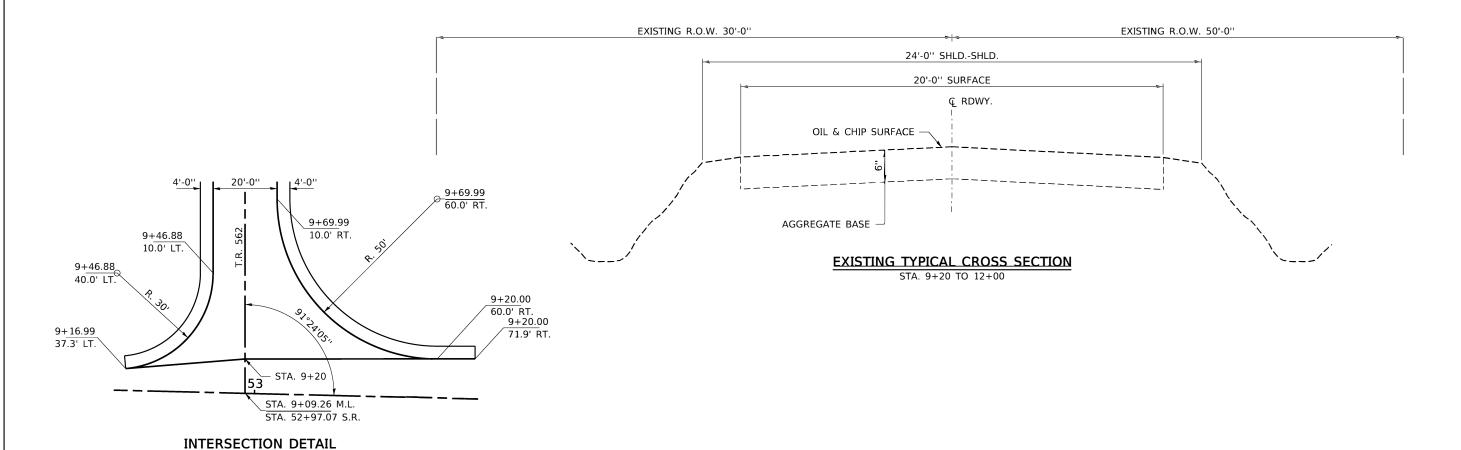
AGGREGATE SURFACE COURSE 2.05 TON/CU YD STONE DUMPED RIPRAP 1.75 TON/CU YD POROUS GRANULAR EMBANKMENT 1.50 TON/CU YD

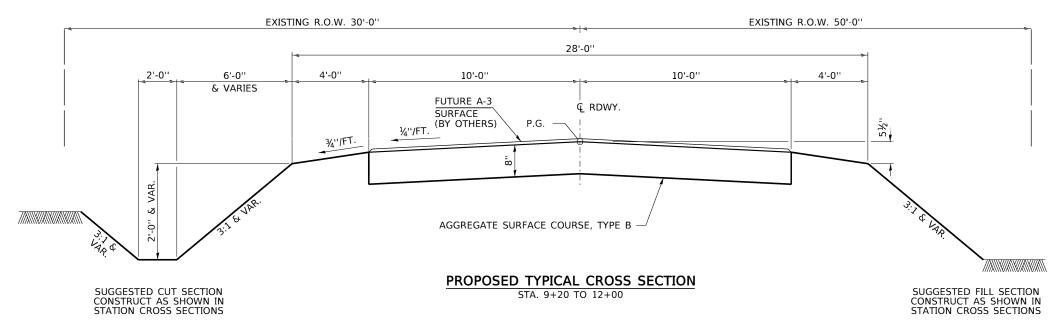
- 5. THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITY: SEEDING, CLASS 2 (SPECIAL) = 0.75 ACRES
- 6. COMMITMENTS:
 - 1) ALL WORK SHALL BE COMPLETED IN ACCORDANCE WITH NATIONWIDE PERMIT NO. 14 INCLUDED IN SPECIAL PROVISIONS.
- 7. ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 8. TREES SHALL BE REMOVED AT THE DIRECTION OF THE ENGINEER. SEE SPECIAL PROVISIONS,
- 9. THE CONTRACTOR HAS THE OPTION TO CONSTRUCT PRECAST CONCRETE BOX CULVERT, HEADWALLS, AND TOEWALLS IN PLACE OF THE CAST-IN-PLACE OPTION DETAILED IN THESE PLANS. SEE SPECIAL PROVISIONS

•	EARTHW(ORK SCH	EDULE			
EARTH	INCIDENTAL	SHRINKAGE	PERCENT	EARTH EXCAVATION	EMBANKMENT	EARTHWORK
EXCAVATION	EXCAVATION	FACTOR	USED	ADJUSTED	REQUIRED	BALANCE
	FROM CULVERT	1		FOR SHRINKAGE		
20200100						
CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
92		25.00%	100.00%	69	35	34
81		25.00%	100.00%	61	2	59
96		25.00%	100.00%	72	62	10
	309	25.00%	70.00%	162	0	162
269	309			364	98	265
269						265
	20200100 CU.YD. 92 81 96	EARTH EXCAVATION FROM CULVERT 20200100 CU.YD. CU.YD. 92 81 96 309	EARTH INCIDENTAL SHRINKAGE EXCAVATION FACTOR FA	EARTH EXCAVATION FROM CULVERT SHRINKAGE PERCENT USED SECTION FROM CULVERT SECTION FROM CULVERT SECTION	EXCAVATION EXCAVATION FACTOR USED ADJUSTED FOR SHRINKAGE 20200100 CU.YD. CU.YD. 92 25.00% 100.00% 69 81 25.00% 100.00% 61 96 25.00% 100.00% 72 309 25.00% 70.00% 162 269 309 364	EARTH INCIDENTAL EXCAVATION FACTOR USED FOR SHRINKAGE FOR SHRINK

WASTE EXCAVATION 265 CU YDS

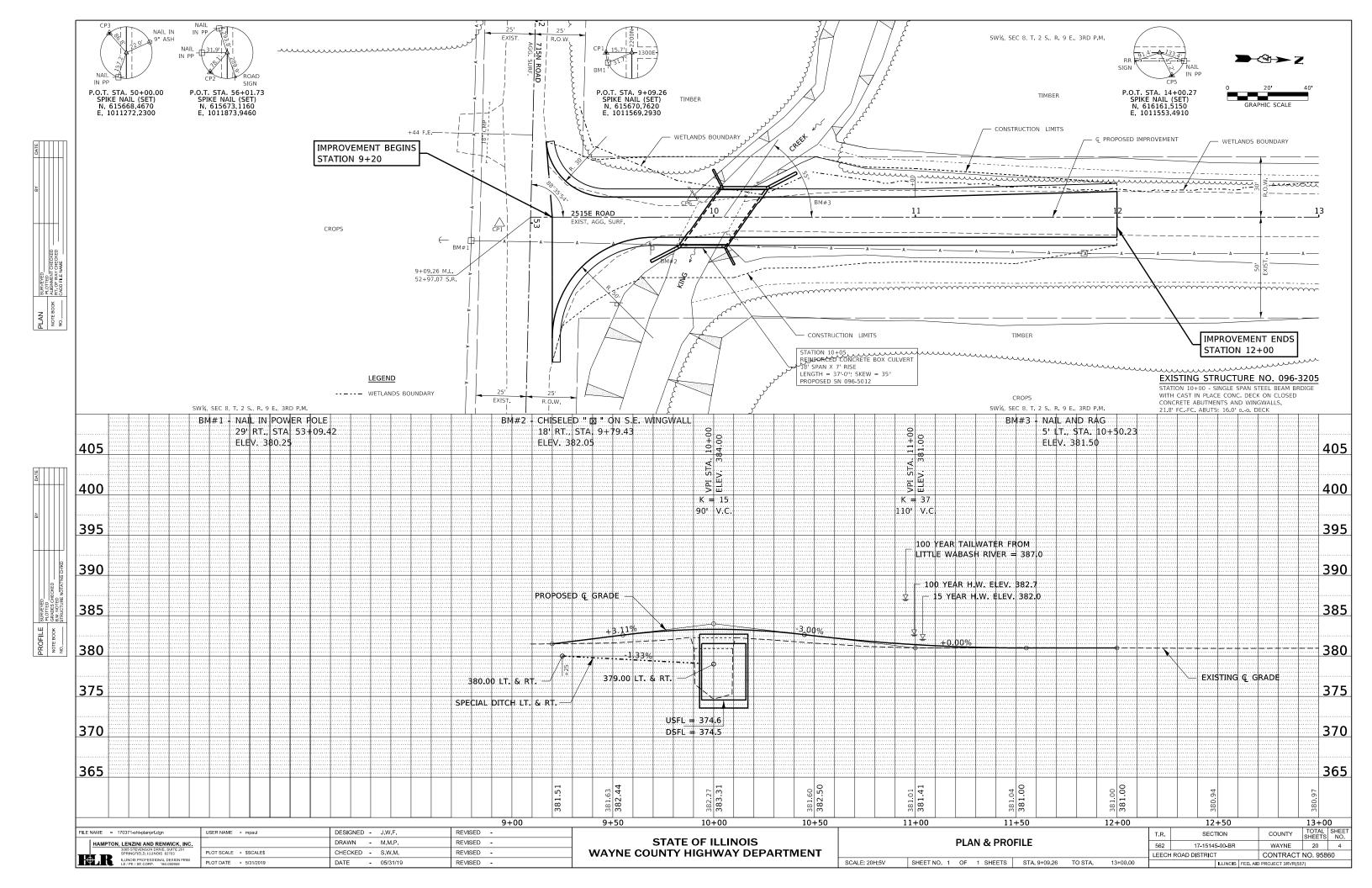
FILE NAME	= 170371-shl-summary.dgn	USERNAME = mpsuf	DESIGNED	- S.W.M.	REVISED -		1						Trol	SECTION	COUNTY	TO
HAM	TON, LENZINI AND RENWICK, INC.		DRAWN	- R.D.H.	REVISED -	STATE OF ILLINOIS	SU	JMMARY OF	OHAN	TITIES AN	D GENERAL	NOTES	1.1%		WAYNE	- SH
	SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	CHECKED	- S.W.M.	REVISED -	WAYNE COUNTY HIGHWAY DEPARTMENT			4.07.17	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	o delle l	- 110120	562	17-15145-00-BR ROAD DISTRICT	CONTRACT	_ <u></u>
. i⊕i₁	E RLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000159	PLOT DATE = 5/31/2019	DATE	- 05/31/19	REVISED -		SCALE: NONE	SHEET NO.	1 OF	1 SHEETS	STA	TO STA.	LECOR		AID PROJECT SRVR(5	

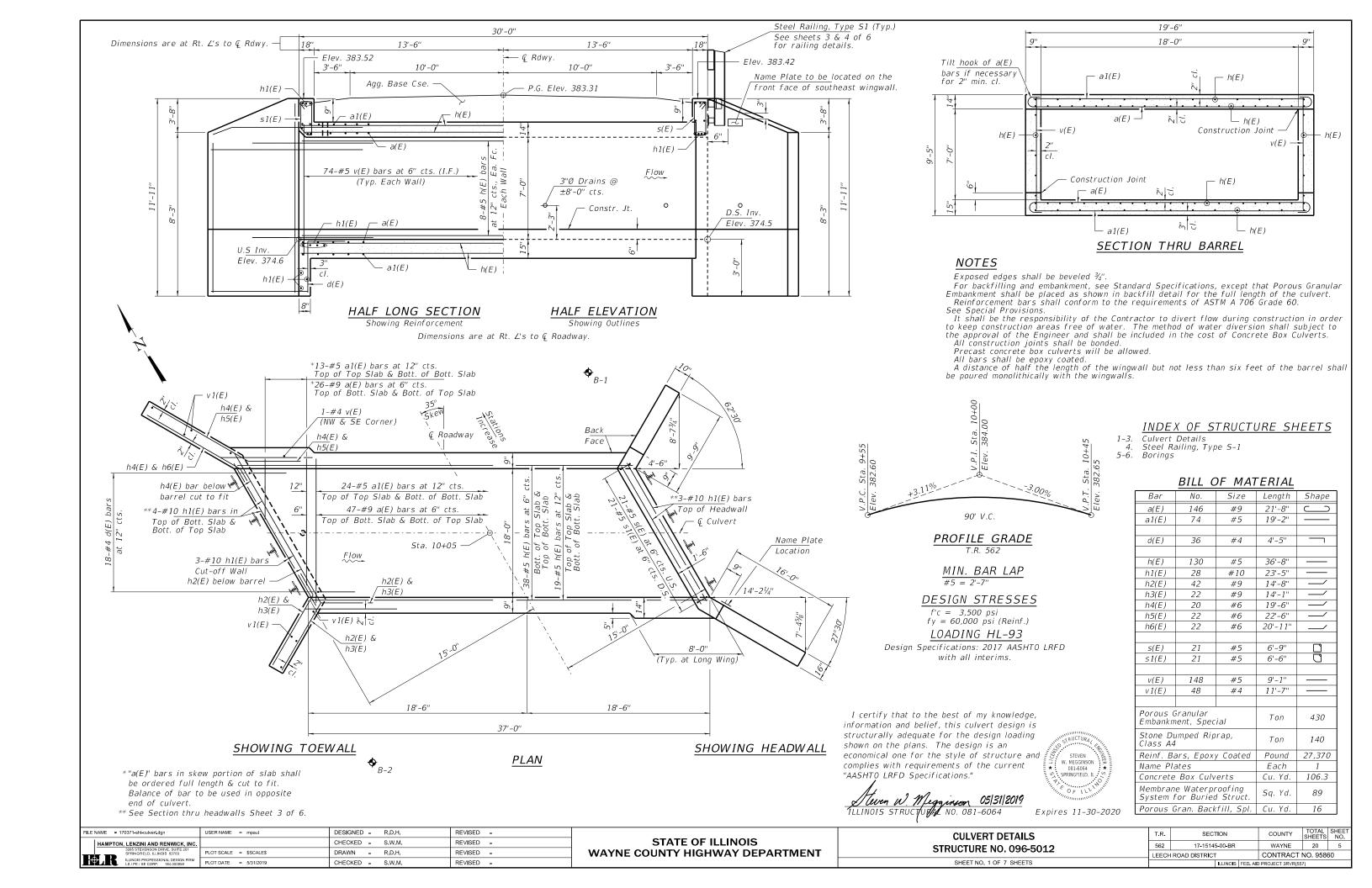


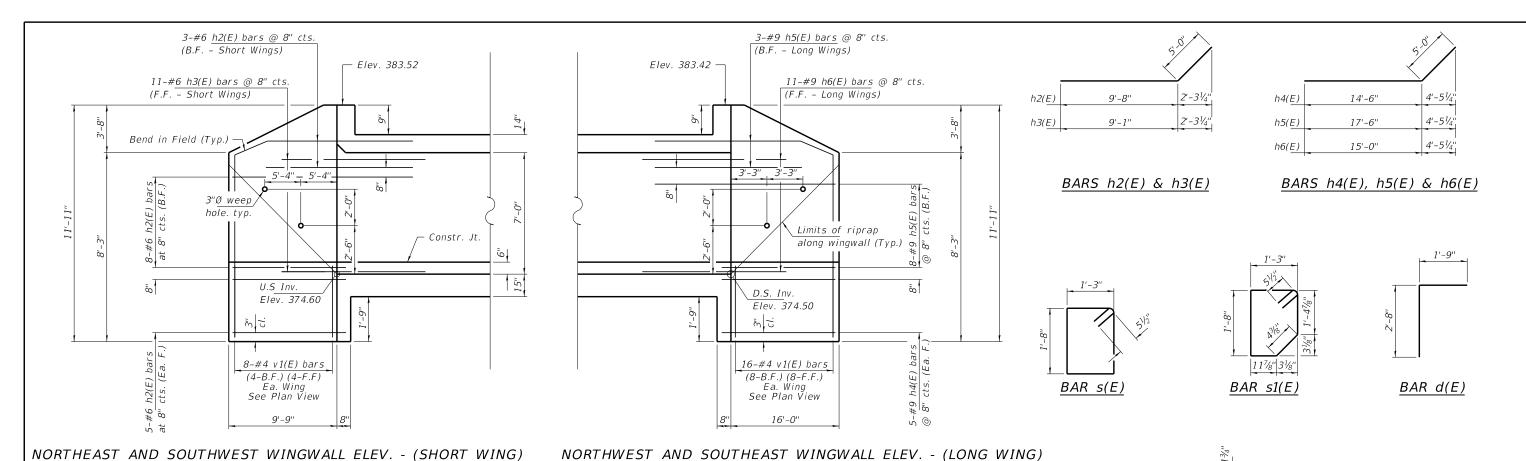


TRANSITION FROM THE PROPOSED SURFACE TO THE EXISTING SURFACE FROM STA. 11+00 TO 12+00.

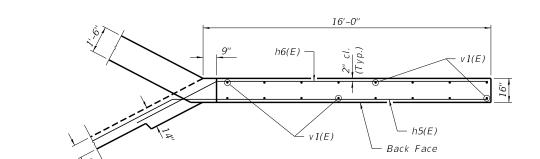
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	HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - R.D.H.	REVISED -	STATE OF ILLINOIS		TYPICAL CROSS SEC	CTIONS	Ì	562	17-15145-00-BR	WAYNE	20 3
	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -	WAYNE COUNTY HIGHWAY DEPARTMENT				Ì	LEECH RO	DAD DISTRICT	CONTRACT	NO. 95860
	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 5/31/2019	DATE - 05/31/19	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. A		

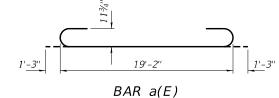


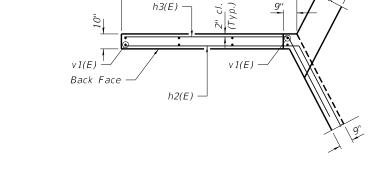




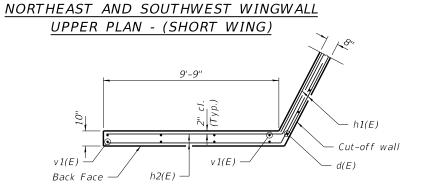
NORTHEAST AND SOUTHWEST WINGWALL ELEV. - (SHORT WING)

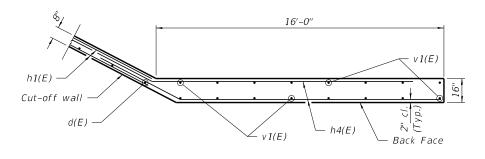












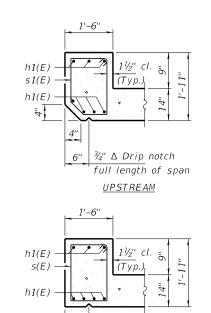
NORTHEAST AND SOUTHWEST WINGWALL LOWER PLAN - (SHORT WING)

NORTHWEST AND SOUTHEAST WINGWALL LOWER PLAN - (LONG WING)

NOTES

- 1. For Bill of Material and reinforcement bars summary see sheet 1 of 6.
- 2. B.F. denotes Back Face; F. F. denotes Front Face; Ea. F. denotes Each Face.

FILE NAME = 170371-sht-culvert.dgn	USER NAME = mpaul	DESIGNED - R.D.H.	REVISED -		CULVERT DETAILS	T.R.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
HAMPTON, LENZINI AND RENV	WICK, INC.	CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS	STRUCTURE NO. 096-5012	562	17-15145-00-BR	WAYNE	20 6
SPRINGFIELD, ILLINOIS 62	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -	WAYNE COUNTY HIGHWAY DEPARTMENT	31KUCTUKE NO. 030-3012	LEECH	ROAD DISTRICT	CONTRAC	T NO. 95860
ILLINOIS PROFESSIONAL D LS / PE / SE CORP. 184.1	DESIGN FIRM PLOT DATE = 5/31/2019	CHECKED - S.W.M.	REVISED -		SHEET NO. 2 OF 7 SHEETS		ILLINOIS FED. A	ID PROJECT 3RVR	(557)

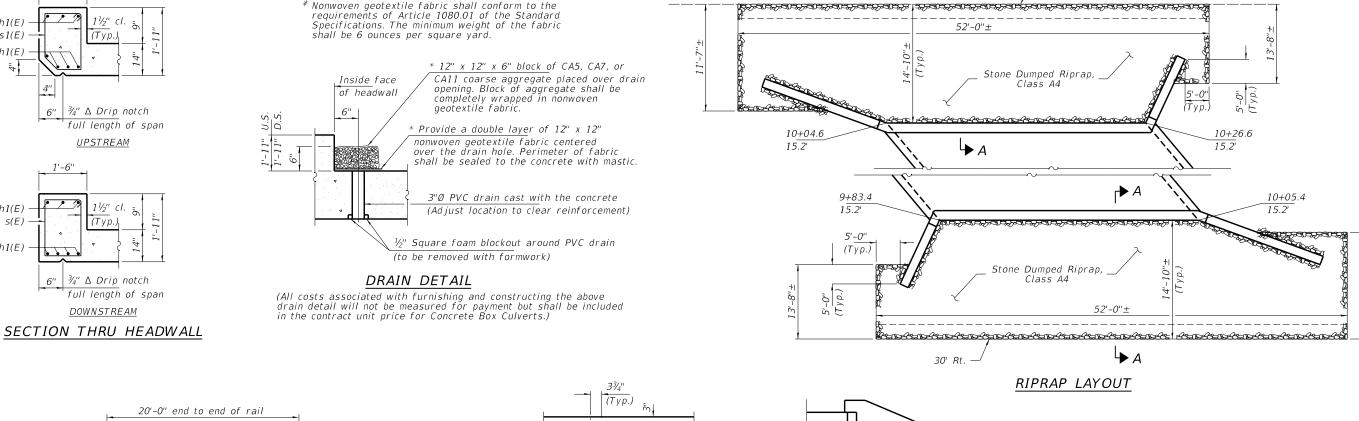


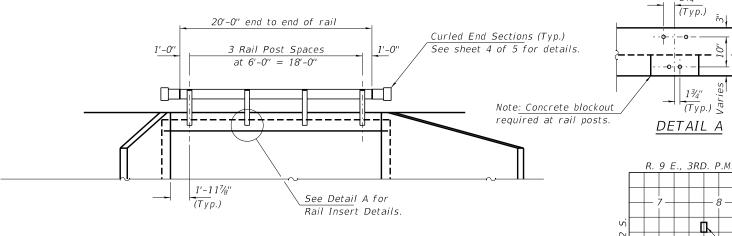
¾" △ Drip notch

DOWNSTREAM

full length of span

* Nonwoven geotextile fabric shall conform to the



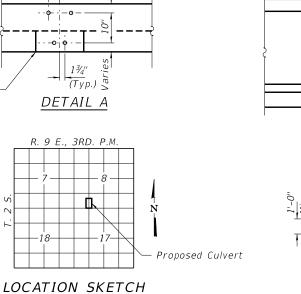


ELEVATION

Showing Rail Post Spaces

See sheet 4 of 5 for Railing Details. WATERWAY INFORMATION

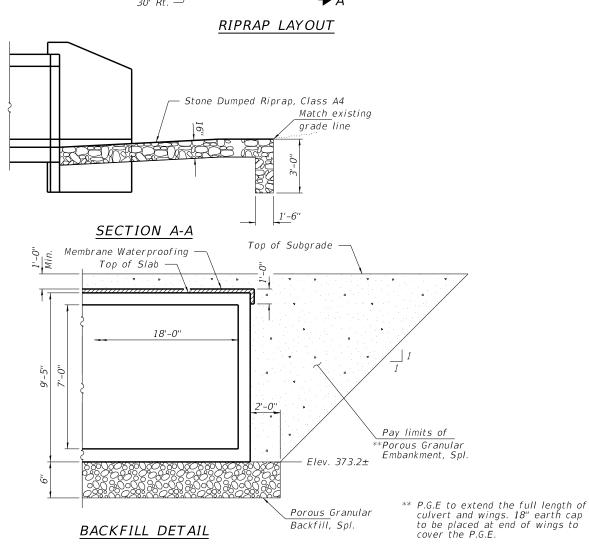
Drainage Are	. 16	C~ M:		isting Lo oposed i					
Drainage Are	a = 4.0	5q. MI	. PI	oposea i	LOW GIC	ide Erei	7. 380.5	1 @ 31a	. 12+3U
Flood	Freq.	Q	Opening	Sq. Ft.	Nat.	Head	- Ft.	Headw	ater El
F100u	Yr.	C.F.S.	Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Overtop	10	1280	100	126	381.91	0.15	0.00	382.06	381.91
Design	15	1470	100	126	382.04	0.16	0.00	382.20	382.04
Base	100	2470	100	126	382.68	0.16	0.00	382.84	382.68
Scour Check	200	2840	100	126	382.86	0.13	0.00	382.99	382.86
Max. Calc.	500	3390	100	126	383.12	0.12	0.00	383.24	383.12
10 Year Velocity thr	ough Exis	ting Bridg	ie = 12.8 fp	s 10 Y	ear Veloci	ty through	Proposed	d Bridge =	10.2 fps



KING CREEK BUILT 201_ BY LEECH ROAD DISTRICT

WAYNE COUNTY SEC. 17-15145-00-BR STR. NO. 096-5012 LOADING HL-93

NAME PLATE See Std. 515001



ightharpoonup A

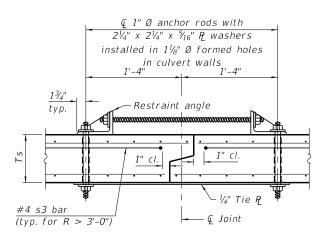
Existing R.O.W. Line 30'

USER NAME = mpaul DESIGNED - R.D.H. REVISED -FILE NAME = 170371-sht-culvert.dgn HAMPTON, LENZINI AND RENWICK, INC CHECKED - S.W.M. REVISED -DRAWN - R.D.H. REVISED -REVISED -PLOT DATE = 5/31/2019 CHECKED - S.W.M.

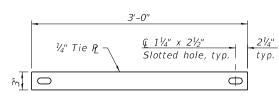
STATE OF ILLINOIS WAYNE COUNTY HIGHWAY DEPARTMENT

SECTION COUNTY **CULVERT DETAILS** 562 17-15145-00-BR WAYNE 20 7 **STRUCTURE NO. 096-5012** CONTRACT NO. 95860 LEECH ROAD DISTRICT SHEET NO. 3 OF 7 SHEETS

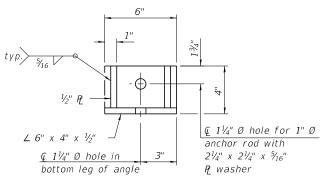
CULVERT TIES



<u>SECTION F-F</u> (Showing culvert tie details)



TIE PLATE DETAIL



RESTRAINT ANGLE DETAIL

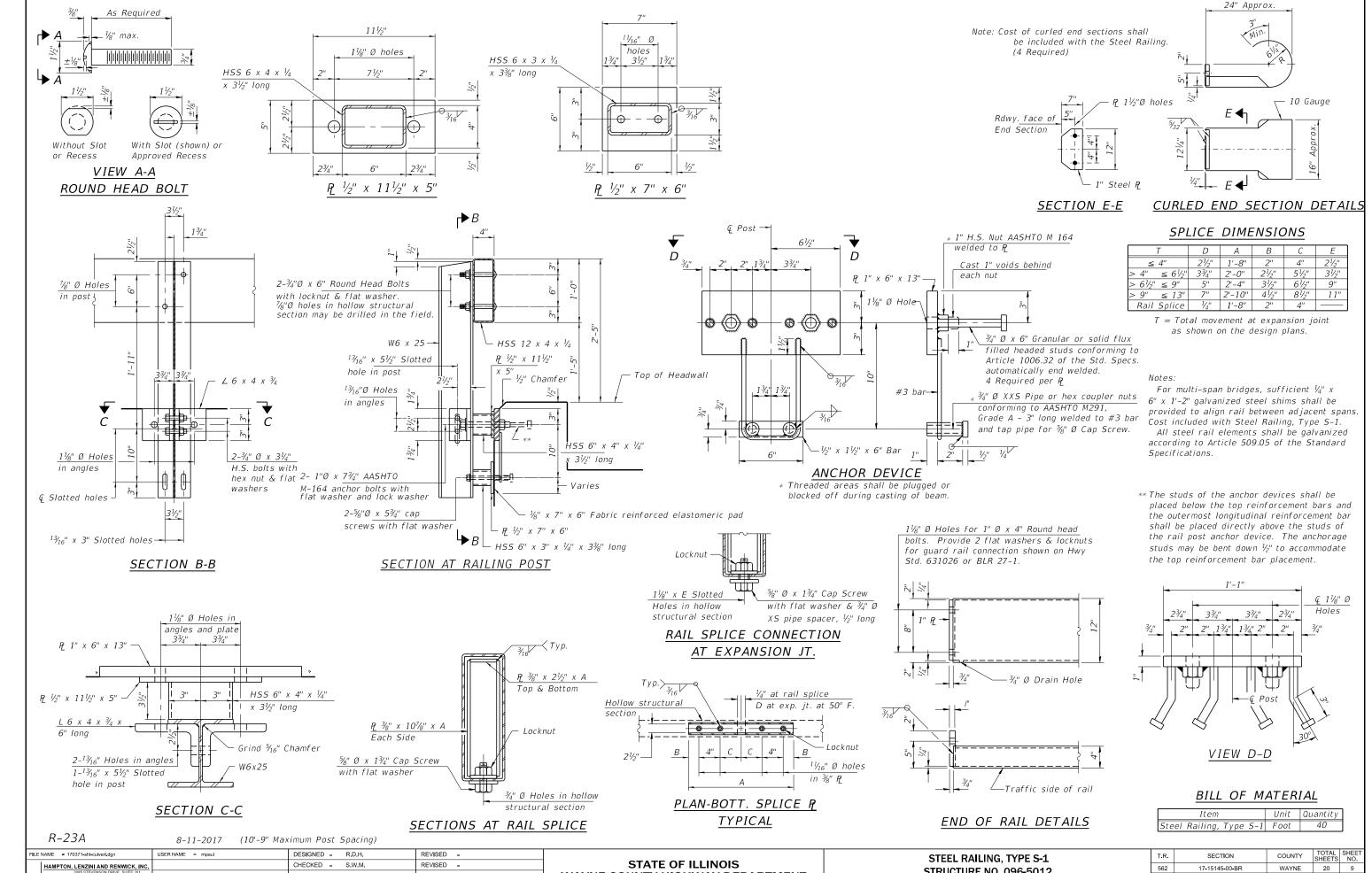
Notes:

1" Ø anchor rods for the culvert ties shall conform to the requirements of ASTM F1554, Grade 105. Structural steel for the tie plate and restraint angle shall conform to the requirements of Article 1006.04 of the Standard Specifications. All components of the culvert tie detail shall be galvanized according to the requirements of AASHTO M 111 or M 232 as applicable. 2½"x2½"x½"₁₆" plate washers shall be provided under each nut required for the anchor rods. Anchor rods connecting precast sections shall be brought to a snug tight condition followed by an additional ½ turn on one of the nuts for anchor rods installed in the walls. Match marks shall be provided on the bolt and nut to verify relative rotation between the bolt and the nut. Holes in the walls for the culvert tie assembly may be drilled using core bits in lieu of using formed holes.

Cost included with Precast Concrete Box Culverts.

Preca	st Box	Culv	ert Schedul	e (ASTI	M C 1577)
	Size		Design Fill	(ft.)	PGE backfill
Station	(Span x Height)	Skew	Edge of shldr. (minimum)	Maximum	required
10+05	18' x7'	35°	0.5'	1.0'	Yes

FILE NAME = 170371-sht-culvert.dgn	USER NAME = mpaul	DESIGNED - R.D.	D.H.	REVISED -		CULVERT DETAILS	T.R.	SECTION	COUNTY TOTAL SHEETS	SHEET
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W	V.M.	REVISED -	STATE OF ILLINOIS		562	17-15145-00-BR	WAYNE 20	8
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN - R.D.	D.H.	REVISED -	WAYNE COUNTY HIGHWAY DEPARTMENT	STRUCTURE NO. 096-5012	LEECH F	ROAD DISTRICT	CONTRACT NO. 958	860
ILLINOIS PROFESSIONAL DESIGN FIRM	PLOT DATE = 5/31/2019	CHECKED - S.W	V.M.	REVISED -		SHEET NO. 4 OF 7 SHEETS		ILLINOIS FED	AID PROJECT 3RVR(557)	



REVISED -

CHECKED - S.W.M

ILLINOIS PRI

PLOT DATE = 5/31/2019

STATE OF ILLINOIS 562 17-15145-00-BE WAYNE 20 9 **STRUCTURE NO. 096-5012** WAYNE COUNTY HIGHWAY DEPARTMENT CONTRACT NO. 95860 SHEET NO. 5 OF 7 SHEETS

393 Wood Road 6 Carbondale, IL 62901 6						age.		01	
					ion Boring Log				4
Project: <u>H-17231</u> Bridge Section: <u>17-15145-00-BR</u> Station	TR-	562	2 ov	er	<u>Br Little Wabash</u> Dat	e:1	0/5	5/20	17
Structure: 096-3205					Bored b	у: <u>В</u> .	Sch	wartz	
County: <u>Wayne</u>					Checked E	y: <u>T.</u>	Holo	omb	
Boring No: 1	LO		tsf		Surface Water Elev. Ground Water Elev. During Drilling 90.3 (37)	lo		tsf	
Station:	Elevation			100	Ground Water Elev. During Drilling 90.3 (37)	2 . 8 (2)			88
	EK	z	Ŋ	≥	Upon Completion 86.3 (368	. B7 🛱	z	η	≥
Ground Surface (381.87)99.3	0				clay (continued) (359.3776.	8	_	-	\Box
11" Gravel					Gray Sandy CLAY (A-6)	_			
Brown Silty CLAY (A-6)		4	1.58	25		_	- 0	0.2B	19
(250, 25)		<u> </u>				-25		0.20	
(378.37)5.8 Gray Mottled Brown Silty CLAY						_	}		
(A-6)	 _5	9	1.5S	15			6	1.68	24
						_			
		_		_		_	-		
	_	4	1.5B	18		<u> –30</u>	9	1.45	15
(373.37)90.8									
Brown Mottled Gray Sandy CLAY (A—6)	-10	4	0.5B	25	(349.87) 67.				
(370.87)88.3	-10				Brown Fine to Medium SAND (A-2-4) with sandy clay				
Gray Silty CLAY (A-6)					lenses	_	_		Щ
	_	3	1.1B	26		<u> – 35</u>	15		17
		0	0.45	56			-		
	<u>-15</u>	-					}		
						_			
		0	0.3B	32		-40	22		18
						_	-		
		_	0.00			_	-		
	<u>-20</u>	1	0.6B	42		_	-		
					(338.3765.		1		
		0			Gray Sandy CLAY (A—6) with sand lenses				
N = Standard Penetration Test Blows per foot to drive 2" O Split Spoon Sampler 12" with	t .D.	St	treng	lth	infined Compressive B = Bu in tons/sq.ft. S = Sh Content-percentage E = Est	ear Fo	ailur	·e	

Bridge	F	011	ınd	at	of 2 of 2 of 2 of 2 of 2 of 2
Project: H-17231 Bridge Section: 17-15145-00-BR Station Structure: 096-3205 County: Wayne	TR-	-56:	2 ov	er	Br Little Wabash Date: 10/5/201
Boring No: 1 Station: Offset:	Elevation	z	Qu tsf	% %	Surface Water Elev. 5 Ground Water Elev. 90.3 (372.89) During Drilling 90.3 (372.89)
(328.37) 45.8 Gray Silty CLAY (A-6) with pebbles	-50	21	1.0S	23	Clay (continued)
(318.37) 35.8 Dense Brown Sandy CLAY (A-6)		90		12	
N = Standard Penetration Tes Blows per foot to drive 2" (Split Spoon Sampler 12" with a 140 lbs. hammer falling 30	D.D.	St	reng -Wat	th er	in tons/sq.ft. Content-percentage Content-pe

BORING-1

FILE NAM	= 170371-sht-culvert.dgn	USER NAME = mpaul	DESIGNED - R.D.H.	REVISED -		BORINGS	T.R. SECTION	COUNTY TOTAL SHEETS NO
Iн∧	MPTON I ENZINI AND RENWICK INC		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS		562 17-15145-00-BR	MANAIE 00 10.
1 1	III TON, EENEMI AND REMINION, INC.					STRUCTURE NO. 096-5012	562 17-15145-00-BR	WAYNE 20 10
	SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -	WAYNE COUNTY HIGHWAY DEPARTMENT	31KUCTURE NO. 090-3012	LEECH ROAD DISTRICT	CONTRACT NO. 95860
⊥₩⊿	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 5/31/2019	CHECKED - S.W.M.	REVISED -		SHEET NO. 6 OF 7 SHEETS	ILLINOIS F	ED. AID PROJECT 3RVR(557)

Carbondale, IL 62901 6						age	1	of	2
Bridge	F	0 L	ınd	at	ion Boring Log				
Project: H-17231 Bridge	TR-	-56	2 ov	er	Br Little Wabash Dat	e:1	0/5	/20	17
Section: <u>17-15145-00-BR</u> Station Structure: <u>096-3205</u>					Bored b	y: <u>B</u> .	Sch	wartz	
County: <u>Wayne</u>					Checked B				
Boring No: 2	no		tsf		Surface Water Elev	٦		4	
Station:	Elevation		1 \$2	8%	Surface Water Elev. Ground Water Elev. During Drilling 92.5	(8 8.		tsf	8
Oliset.	Ele	z	η	>	Upon Completion 89.5 (37)	. 8 <u>4</u>)	z	Ωū	*
Ground Surface (381.84)9.5	0	 -		╁	clay (continued)	l	+		
3" Topsoil Brown Sandy CLAY (A-6)		}				_	-		
	_	10	1.55	7			0	0.4B	7.4
(270, 24)			1.00	-		-25	5	0.46	54
Brown Mottled Gray Silty CLAY									
(A-6)	-5	6	1.15	12			0	0.9B	33
	_					_			
(374.84) 92.5		2	1.0B	22	(352.34) 70.0		3	0.6B	23
Gray Mottled Brown Sandy CLAY (A-6)		-			Gray Sandy CLAY (A-6) with sand lenses	<u>-30</u>			-
	_	L				_			
	<u>-10</u>	3	0.9B	21					
	_	-			(348.34)				
		5	1.95	35	Brown SAND and GRAVEL (A-2-4) with sandy clay sea	 ms _	28		16
(370 5)	_	-		-	, , , , , , , , , , , , , , , , , , , ,	-35	5		-
Gray Mottled Brown Silty CLAY									
(A-6)	<u> </u>	5	1.35	38					
(365.84)83.5	_						-		
Brown Silty CLAY (A-6)		0	1.0B	57			13		21
(363.34).	_	Í		-		<u>-40</u>) '3		
(363.3481.0 Gray Silty CLAY (A-6)				L		_			
	-20	0	0.4B	37					
(360.84), 78.5		-							
Brown Silty CLAY (A-6)		0	1.0B	43			1		-
N = Standard Penetration Test Blows per foot to drive 2" O Split Spoon Sampler 12" with a 140 lbs. hammer falling 30'	.D.	St	treng -Wat	th ter	nfined Compressive B = Bull in tons/sq.ft. S = She Content-percentage E = Esti yen dry weight-% P = Per	ar Fo mate	ailur d V	e alue	

D : 1			7-8		· D · l
Bridge	F C) U	nd	at	ion Boring Log
Project: <u>H-17231</u> Bridge					
Section: <u>17-15145-00-BR</u> Station Structure: 096-3205			-		Bored by: B. Schwartz
County: <u>Wayne</u>					Checked By: T. Holcomb
Boring No: 2	c				Surface Water Elev c
Station:	Elevation		tsf		Surface Water Elev 5 Ground Water Elev 92.5 (374, 88)
Offset:	levo		Оп	8	
	Ш	Z	G	≥	Upon Completion 89.5 (371 8 Z \ddot{o})
sand (continued)	_ 45	9		-	clay (continued)
					(312.8 30.5 100
					Gray SANDSTONE /3" - 1
(333.34)	-				<u>-70</u>
)				
sand lenses	-50	12	3.6B	14	
	-30				<u> </u>
					(307.845.5 100
					End of Boring @ -79.0' -75
•					
	-55	14	1.4B	15	
	_				
(202 24)					<u>80</u>
(323.34) 41.0)				
Gray Silty CLAY (A-6) with pebbles		39	2.8B	11	1
	-60				
					<u>-85</u>
(318.34)					
Gray Silty to Sandy CLAY			<u> </u>	1	
(A-6)	-65	54	1.05	23	<u>-</u>
		-			
		1			
N = Standard Penetration Te	st	- L	u-U	nco	onfined Compressive B = Bulge Failure
Blows per foot to drive 2" Split Spoon Sampler 12" with	O.D.	S	tren	ath	in tons/sq.ft. S = Shear Failure Content-percentage E = Estimated Value
a 140 lbs. hammer falling 30	o"	٧٧	0	6	oven dry weight-% P = Penetrometer

BORING 2

FILE	NAME = 170371-sht-culvert.dgn	USER NAME = mpaul	DESIGNED - R.D.H.	REVISED -	OTATE OF HANGIS	BORINGS		SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS		562	17-15145-00-BR	WAYNE	20 11
Ik	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	CALE = \$SCALE\$ DRAWN - R.D.H. REVISED -	WAYNE COUNTY HIGHWAY DEPARTMENT	STRUCTURE NO. 096-5012	LEECH	ROAD DISTRICT	CONTRACT	NO. 95860	
	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 5/31/2019	CHECKED - S.W.M.	REVISED -		SHEET NO. 7 OF 7 SHEETS				

