STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

D-98-052-22

08-04-2023 LETTING ITEM 084

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PROPOSED HIGHWAY PLANS

FAI ROUTE 55 (I-55) PROJECT NHPP-43E4(178) SECTION: 60-(1,2) HL-1
PROJECT DESCRIPTION: HIGHWAY LIGHTING **MADISON COUNTY** C-98-082-22

POSTED SPEED LIMIT I-55 70 MPH IL 140 **40 MPH RAMPS 50 MPH**

SEE INDEX OF SHEETS, SEE SHEET NO.2

			(TR	UCKS)	
ADT (TOTAL)			MÙ	SÜ	
I-55	38,600	(2021)	6400	1,375	(2021)
IL-140	8,500	(2021)	1150	1,150	(2021)
NB I-55 TO IL-140	2,800	(2016)		•	•
IL-140 TO NB I-55		(2016)			
IL-140 TO SB I-55	2,900	(2016)			

END IL 140

IMPROVEMENT

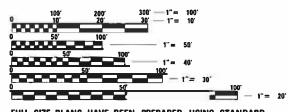
END 1-55

IMPROVEMENT

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO.2

END I-55

MUNICIPALITY: VILLAGE OF HAMEL



SB I-55 TO IL-140 2,300 (2016)

LANS 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.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

PROJECT ENGINEER: CHERYL KEPLAR PROJECT MANAGER: RICHARD BARBEE **LOCATION MAP** NOT TO SCALE



LICENSE EXPIRES: 11-30-2023

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

LOCATION OF SECTION INDICATED THUS: -

May 12, 2023

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

REV. - MS

CONTRACT NO. 76R27

IMPROVEMENT

END IL 140 IMPROVEMENT

Hmanter

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS AND GENERAL NOTES
- 3 SUMMARY OF QUANTITIES
- 4 REMOVAL LIGHTING PLAN
- 5 PROPOSED LIGHTING PLAN
- 6 WIRING DIAGRAM AND LUMINAIRE PERFORMANCE TABLE
- 7 12 SOIL BORING LOGS

IDOT HIGHWAY STANDARDS

000001-08

701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE
701106-02	OFF-RD OPERATIONS, MULTILANE, MORE THAN 15' AWAY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-08	TRAFFIC CONTROL DEVICES
821101-02	LUMINAIRE WIRING IN POLE
825026-04	LIGHTING CONTROLLER BASE MOUNT 480V
835001-01	LIGHT TOWER
837001-05	LIGHT TOWER FOUNDATION
001006	DECIMAL OF AN INCH AND OF A FOOT
805001-01	ELECTRICAL SERVICE INSTALLATION DETIALS

STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS

GENERAL NOTES:

- 1. THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM ALONG THE INTERCHANGE OF I-55 AND IL-140. PROPOSED LIGHTING SHALL BE OWNED AND MAINTAINED BY THE STATE OF ILLINOIS, DEPARTMENT OF TRANSPORTATION.
- 2. THE CONTRACTOR SHALL CONTACT THE LOCAL ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE INSTALLATION WORK.
- 3. THE QUANTITIES OF RACEWAY WHERE INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS
- 4. THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- 5. THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF HIGH MAST TOWER AND CONDUITS. IF THERE IS A CONFLICT WITH THE HIGH MAST TOWERS/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST THE ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING CONSTRUCTION WORK
- 6. TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- 7. LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
- 8. ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE UL LISTED AND LABELED.
- 9. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES, TREES AND ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
- 10. THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING HIGH MAST TOWER FOUNDATIONS TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES, WHEN CONFLICTS ARE ENCOUNTERED, THE CONTRACTOR SHALL REQUEST TO RELOCATE THE FOUNDATION. THE NEW LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- 11. GROUND RODS SHALL BE INSTALLED AT EACH TOWER.

REV. - MS

MADISON 12 2

COUNTY

LT-01



USER NAME = \$USER\$	DESIGNED - AM/HM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED KK/HM	REVISED -
PLOT DATE = \$DATE\$	DATE - 01/31/23	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION

60-(1,2) HL-1

55

CONSTRUCTION TYPE CODE

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITIES	0021 90% FED 10% STATE	
67100100	MOBILIZATION	L SUM	1	1	
80400100	ELECTRIC SERVICE INSTALLATION	EACH	1	1	
81028790	UNDERGROUND CONDUIT, COILABLE NONMETALLIC CONDUIT, 4" DIA.	FOOT	490	490	
81603000	UNIT DUCT, 600V, 2-1C NO.8, 1/C NO.8 GROUND, (XLP-TYPE USE), 3/4" DIA. POLYETHYLENE	FOOT	500	500	
81603032	UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE	FOOT	6060	6060	
82110008	LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H	EACH	2	2	
82110015	LUMINAIRE, LED, HIGHMAST, OUTPUT DESIGNATION H	EACH	24	24	
82500360	LIGHTING CONTROLLER, BASE MOUNTED, 480VOLT, 100AMP	EACH	1	1	
83503400	LIGHT TOWER, 110 FT. MOUNTING HEIGHT, LUMINAIRE MT - 6	EACH	4	4	
83700300	LIGHT TOWER FOUNDATION, 48" DIAMETER	FOOT	76	76	
84200605	REMOVAL OF LIGHTING TOWER, NO SALVAGE	EACH	4	4	
84500110	REMOVAL OF LIGHTING CONTROLLER	EACH	1	1	
84500130	REMOVAL OF LIGHTING CONTROLLER FOUNDATION	EACH	1	1	

CONSTRUC	LON	IYPE	CODE	

CODE NO.	ITEM	UNIT	URBAN TOTAL QUANTITIES	0021 90% FED 10% STATE	
89502300	REMOVE ELECTRIC CABLE FROM CONDUIT	FOOT	5910	5910	
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1	
X8420510	REMOVAL OF TOWER FOUNDATION	EACH	4	4	
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	250	250	
66900530	SOIL DISPOSAL ANALYSIS	EACH	3	3	
66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	
66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	
66901006	REGULATED SUBSTANCES MONITORING	CAL DA	7	7	

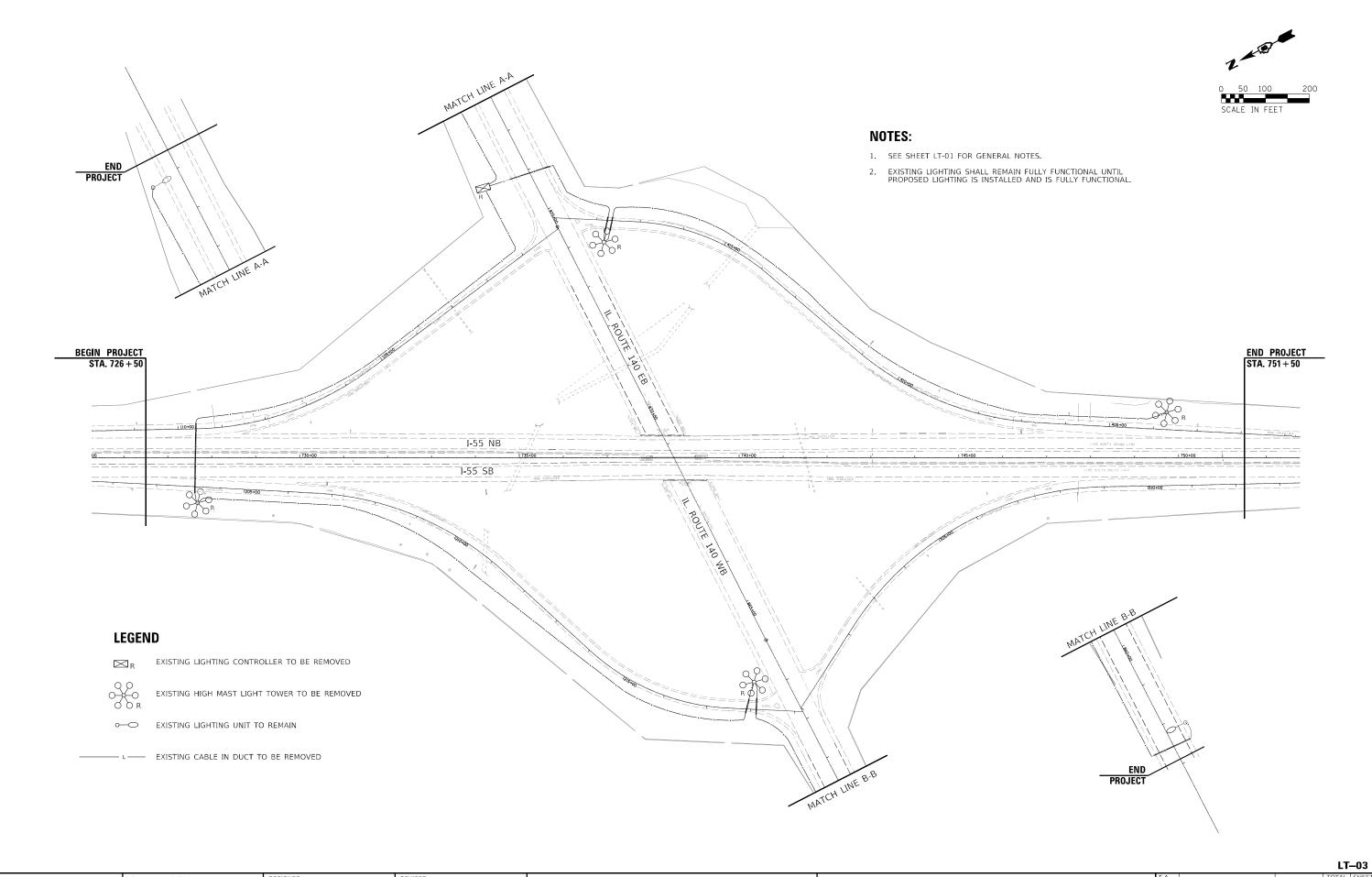
* SPECIALTY ITEM

REV. - MS

LT-02



USER NAME = \$USER\$	DESIGNED - AM/HM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KK/HM	REVISED -
PLOT DATE = \$DATE\$	DATE - 01/31/23	REVISED -



DELTA ENGINEERING GROUP

 USER NAME
 = \$USER\$
 DESIGNED
 AM/HM
 REVISED

 PLOT SCALE
 = \$SCALE\$
 CHECKED
 KK/HM
 REVISED

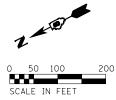
 PLOT DATE
 = \$DATE\$
 DATE
 01/31/23
 REVISED

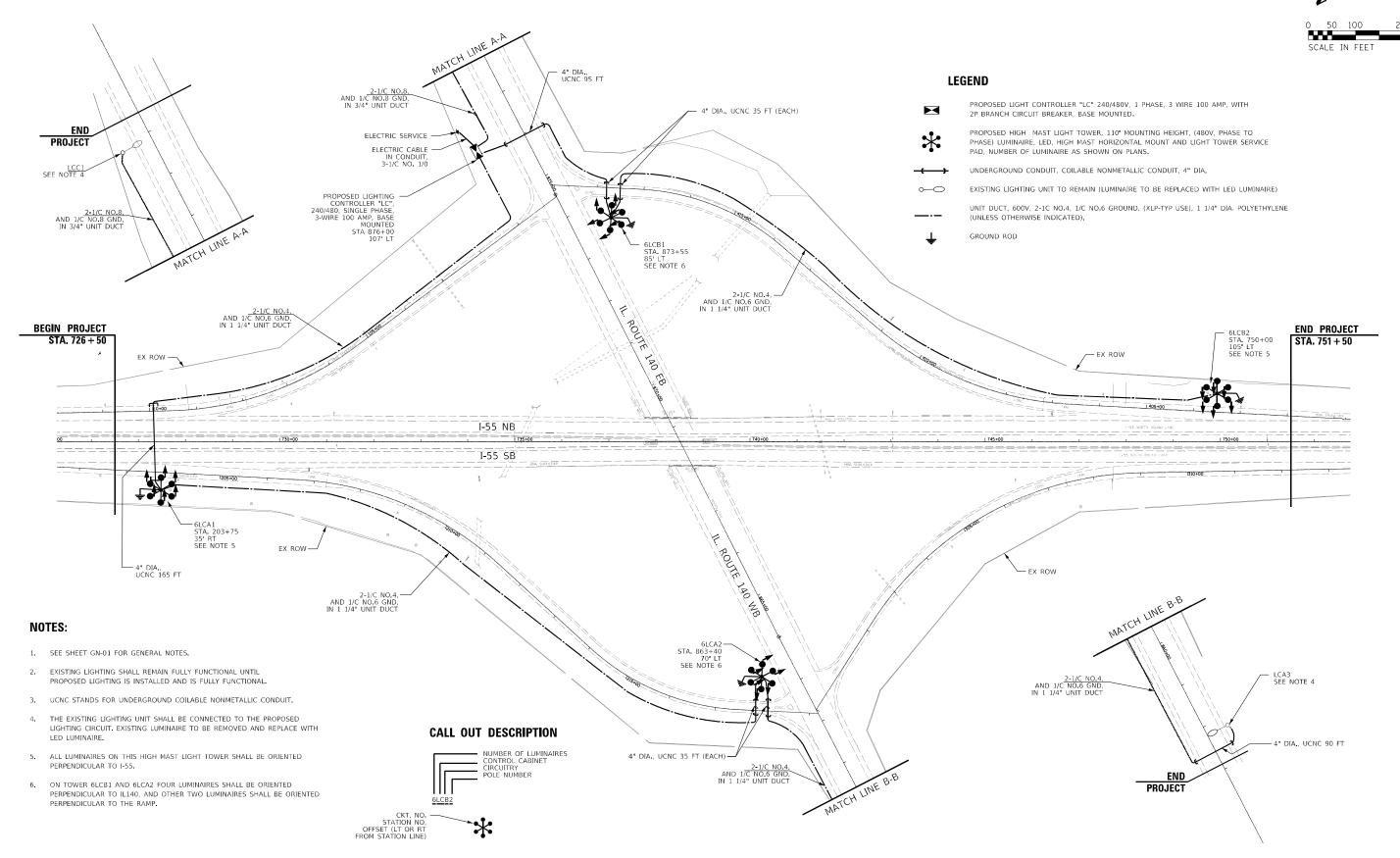
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL LIGHTING PLAN

I-55 AT IL 140

HEET OF SHEETS STA.





DELTA ENGINEERING GROUP

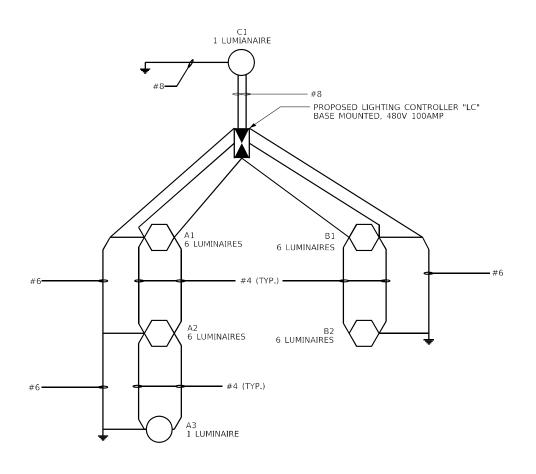
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

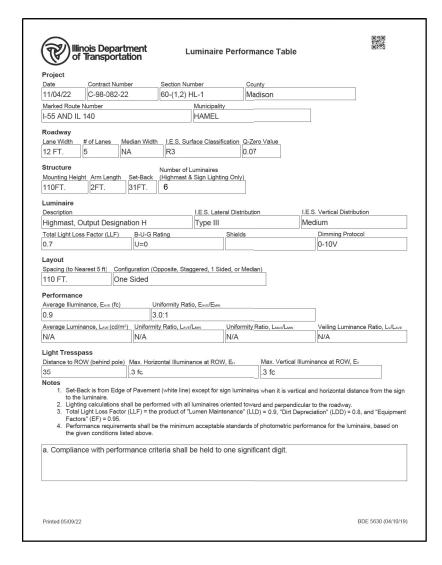
PROPOSED LIGHTING PLAN

I-55 AT IL 140

EET OF SHEETS STA. TO S

LT-04





11/04/22	0		0 - 6 - 1						
	C-98-082-22		Section Nu 60-(1,2) I			County Madison			
Marked Route I		·]	00-(1,2)1			viauisori			
I-55 AND IL				Municipality					
I-00 AND IL	140			ITAVILL					
Roadway									
		edian Width		rface Classific					
12 FT.	5 N	A	R3		0	07			
Structure			Number of I	Luminairee					
Mounting Heigh	t Arm Length			& Sign Lightin	g Only)				
50FT.	15FT.	20FT.	1						
Luminaire									
Description				I.E.S. Later	al Distrib	ution	LE.S.	Vertical Distribution	
	utput Designa	tion H		Type III			Medi		
Total Light Loss		B-U-G Ra	ating		Shields			Dimming Protocol	
0.7	ri dotor (EEI)	U=0	aurig		Ornoldo			0-10V	
0.9 Average Lumin	ance, Lave (cd/m²)		0:1 y Ratio, Lave	Лми	Uniform	ty Ratio, L _{MAX} /L _{MIN}		Veiling Luminance Ra	atio I
0.6	arice, Exve (comi	3.5	y rtado, Exve	S EMIN	6.0	ty rtato, Esso Esin		0.3	atio, L
		0.0							
Light Tresspa									
	W (behind pole)		ontal Illumin	ance at ROW	, E _H		Illumina	nce at ROW, E _v	_
20 Notes		.3 fc				.3 fc			
	uminaire.	all be perfor	med with all	luminaires or	iented to	ward and perpend	icular to		
to the I 2. Lightin 3. Total L Factor 4. Perfori	ight Loss Factor s" (EF) = 0.95.	nts shall be						ion" (LDD) = 0.8, and	

LEGEND

PROPOSED LIGHTING CONTROLLER "LC" 240/480V, 1 PHASE, 3 WIRE 100 AMP, WITH 2P BRANCH CIRCUIT BREAKERS, BASE MOUNTED

 \bigcirc

EXISTING LIGHTING UNIT WITH RETROFITTED LED LUMINAIRE

+

GROUND ROD

UNIT DUCT, 600V, 2-1C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA., POLYETHYLENE

PROPOSED LIGHT TOWER

LIGHTING CONTROLLER 'LC'

240/480V, 1 PHASE, 3 WIRE, 100A WITH 2P BRANCH CIRCUIT BREAKERS

CIRCUIT DESIGNATION	TOTAL LUM	CONNECTED LOAD AMPS	TOTAL WATTAGE
А	13	6.66	3164
В	12	6.00	2880
С	1	0.66	284
D	-	SPARE	SPARE
Е	-	SPARE	SPARE
F	-	SPARE	SPARE
TOTAL	26	13.32	6328

TOTAL LOAD IN WATTS 6328
TOTAL LOAD IN AMPS 13.32

LT-05

DELTA ENGINEERING GROUP

USER NAME = \$USER\$	DESIGNED - AM/HM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KK/HM	REVISED -
PLOT DATE = \$DATE\$	DATE - 01/31/23	REVISED -



Page $\underline{1}$ of $\underline{1}$

Date 9/14/98

ROUTE	FAI 55	DES	SCRI	PTION	I	gii iiu	Rest Area	.eau	LOGG	ED BY	Larr	y For
SECTION	60-1RA,SG		_ L	OCAT	TION	, SEC.	23, TWP. 5N, RNG. 7W, 3 rd PM, lde , Longitude					
COUNTY	_Madison	RILLING	ME	THOD			llow Stem Auger HAMME	R TYPE		140# <i>A</i>	utoma	itic
Station BORING NO. Station	N/A N/A B-1 101+75		D E P T H	B L O W S	U C S Qu	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion 523	ft	D E P T H	B L O W S	U C S Qu	M O I S T
Ground Surfa	14.0 ft Right BL ce Elev. 534.80	ft	(ft)	(/6")	(tsf)	(%)	After Hrs.	.8 ft	(ft)	(/6")	(tsf)	(%)
Brown and Gra	y Silty CLAY		_				Brown and Gray Clay LOAM (continued)		30	5	1.8 S/10	15
			_	4 5 9	1.9 S/15	20	Gray Clay LOAM			19 34 44	5.6 S/5	9
					3/13				_	"	3/3	
			-5	4		0.5			-25			
		1-		4 6	2.4 B	25		508.8	80	20 34	5.0 S/10	9
			_	2			END OF BORING End of Boring		_			
			_	3	2.1 S/15	25				_		
			-10	1 2	0.9	25			-30	-		
		523.80		4	S/15				_			
Brown and Gra	y Clay LOAM	1.	-	3					_			
			_	5 4	1.6 B	23			_			
			-15	3					-35	_		
			_	3 4	1.7 S/15	22						
			_	1					_			
		1.		3 4	1.1 S/15	23			_			
			-20	2					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 9/14/98

ROUTE	FAI 55	DES	SCRI	PTION	ا ا	gn Tru	ss Ramp C - Northboun Rest Area	id Homestea	L(OGG	ED BY	Larry	/ Fo
SECTION	60-1RA,SG	,	_ L	OCAT	ION	SEC.	23, TWP . 5N, RNG . 7W	/, 3 rd PM ,					
COUNTY Mac	dison [DRILLING	ME	THOD			ide , Longitude llow Stem Auger	HAMMER	TYPE	1	40# A	utoma	tic
STRUCT. NO Station	N/A		D E P	B L O	U C S	M 0 1	Surface Water Elev. Stream Bed Elev.			D E P	B L O	U C S	N
Station Offset 15 Ground Surface El	102+25 5.0 ft Right Bl		H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.			H (ft)	W S (/6")	Qu (tsf)	(%
Brown and Gray Silt		<u> </u>	_	,	,	(,	Brown Clay LOAM (co			_	15 34	4.4 S/10	9
			_	3					511.40	-	18		
		500.40	_	3 5	1.8 S/10	24	Gray Clay LOAM			_	31 37	4.8 S/5	8
Brown Clay LOAM		529.40	-5	3						-25	20		
			_	4	0.8 B	23			507.40	_	22 27	4.6 S/10	(
			_	2			END OF BORING End of Boring			_			
			_	4 5	1.4 B	22				_			
			-10	2 3 5	1.3	31				-30			
			_		S/20					_			
			_	3 3 5	1.5 S/15	23				_			
		∇	-15	1						-35			
		_		4 5	1.1 S/15	15							
			_	5	2.1	13				_			
				12	B					_			
			-20	10						-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

DELTA ENGINEERING CROUP

USER NAME = \$USER\$	DESIGNED - AM/HM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KK/HM	REVISED -
PLOT DATE = \$DATE\$	DATE - 01/31/23	REVISED -

				2RF	01	l
	F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
SOIL BORING LOGS	55	60-(1,2) HL-1	MADISON	12	7	
			CONTRAC	T NO. 7	6R27	l
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.		ILLINOIS	FED. AID PROJECT			l



Page 1 of 1

Date 1/8/97

ROUTE			DE	SCR	IPTION			Southbound		L0	OGGI	D BY	Larry	/ Fo
SECTION	60)-1RA,L		1	LOCAT	ГІОИ	SE 1/4	4, SW 1/4, SEC. 14, TWI	P. 5N, RNG.	7W, 3 rd	PM,			
COUNTY	Madison		RILLIN	G ME	THOD			llow Stem Auger	HAMMER	TYPE	1	40# A	utoma	tic
STRUCT. NO.		N/A N/A		D	B L	U	M	Surface Water Elev. Stream Bed Elev.		ft	D E	B	U	N
SORING NO.	;	#1		P T	o W	s	S	Groundwater Elev.:		_ 11	P T	o W	s	5
Station	210	0+30		Н	S	Qu	Т	First Encounter		ft	н	S	Qu	1
Ground Surfa				(ft)	(/6")	(tsf)	(%)	Upon Completion After Hrs.	517.6	_π⊻ ft	(ft)	(/6**)	(tsf)	(%
Brown and Gra				_				Gray and Brown Clay (continued)			_	17 24	7.0 S/10	1
	,	.,												
				-	2							10		
					4 5	1.3 S/15	26					18 29	6.8 S/15	1
				_		2.15				507.60	_		2. 13	
				-5		L		Gray SAND			-25	36		
				_	3 5	1.7 S/15	23			506.10		51	NC /	
			525.10)		3/13		END OF BORING					IVO	
Gray and Brow	n Clay I O	MΑ			2			End of Boring			_			
, ud Diow	July LO			_	3	1.7	23							
				_	5	S/15		-			_			
					2									
				-10	4	1.7	23	-			-30			
					6	S/10								
				_										
				_	3 5	2.4	18	-			_			
					6	S/10								
			Ž	7										
				-15	0	0.7	20				-35			
				_	2	B	20				_			
				_										
				_	11						_			
					12 19	5.5 S/20	12							
				_				-			_			
					1	1	1	II.					1	1

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date ___1/8/97__

	is Department of Trans				. +	lomest	ead Rest Area - High N	/last Lighting	-		Date		
ROUTE	60 1PA I				10.00	SE 1//	Southbound , SW 1/4, SEC. 14, TW	UD 5N DNG				Larry	/ For
						Latitu	de , Longitude						
COUNTY M	adison D	RILLING	ME	THOD	<u> </u>	Hol	low Stem Auger	_ HAMMER	TYPE		140# A	utoma	tic
STRUCT. NO.	N/A		D	В	U	М	Surface Water Elev.		ft	D	В	U	М
Station	N/A		E	L	c	0	Stream Bed Elev.		ft	E	L O	C S	0
BORING NO.	#2		T	W	2650	s	Groundwater Elev.:			Т	w		s
Station	209+30	-8	н	s	Qu	Т	First Encounter		_ ft	Н	s	Qu	Т
Offset Ground Surface	110.0 ft Right Elev. 529.00) ft	(ft)	(/6")	(tsf)	(%)	Upon Completion After Hrs.	520.0	_π⊻ ft	(ft)	(/6")	(tsf)	(%)
					-	1	Gray and Brown Clay	LOAM			13	8.7	10
Brown Silty Clay L	MAO.						(continued)			_	17	S/15	
			_							_			
				5							7		
				5 6	1.3	21					11	6.1	10
		525.00	_	0	S/10					_	16	S/15	
Gray and Brown C	lay LOAM		-5	3 5	1.9	22				-25	6 9	5.9	11
			_	6	S/5	22			503.00	_	15	S/20	11
			_						000.00				
				3			END OF BORING End of Boring						
			_	5	1.9	19	Life of Borning			-			
				7	S/15					_			
		$\bar{\Delta}$	7										
			-10	0						-30			
				2	1.1	17							
				4	S/5								
			_							_			
				13	0.0	40							
				19 30	6.2 S/10	10				_			
			_										
			_	14						-35			
			-15	22	10.0	9				-35			
				27	S/10								
			_							_			
				8						_			
				19	9.7	9							
			_	24	S/5					_			
				1									
			-20	8						-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

DELTA ENGINEERING GROUP

USER NAME = \$USER\$	DESIGNED - AM/HM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KK/HM	REVISED -
PLOT DATE = \$DATE\$	DATE - 01/31/23	REVISED -

SCALE:

												SBL	-02
								F.A. RTE	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
			SOI	L B	ORING I	LOGS		55	60-(1,2) HL-1		MADISON	12	8
											CONTRACT	NO. 7	6R27
NONE	SHEET	1	OF	1	SHEETS	STA.	TO STA.		ILLINOIS	FED. A	ID PROJECT		



Page $\underline{1}$ of $\underline{1}$

Homestead Rest Area - High Mast Lighting Southbound LOGGED BY Larry Ford

ROUTE	DE	SCRI	PTION	1		ead Rest Area - High M Southbound		LOG	GED BY	Larr	y Ford
SECTION 60-1RA,L		_ L	OCA1	TION _	SE 1/4	1, SW 1/4, SEC. 14, TW ide , Longitude	P. 5N, RNG. 7W	, 3 rd PN	Л,		
COUNTY Madison DI	RILLING	ME.	THOD			llow Stem Auger	HAMMER TYP	PE	140# <i>F</i>	utoma	itic
STRUCT. NO. N/A		D	В	U	М	Surface Water Elev.				U	М
Station N/A	_	E P	L O	c s	0	Stream Bed Elev.	ft	F	0	C S	0
BORING NO. #3 Station 207+30 Offset 265.0 ft Left Ground Surface Elev. 534.80		H (ft)	W S (/6")	Qu (tsf)	S T (%)	Groundwater Elev.: First Encounter Upon Completion After Hrs.	518.3 ft	<u>.</u> □	S	Qu (tsf)	S T (%)
Ordana dunace Liev. 004.00	_ "	()	(- ,	()	(,	Aitei III3.		. \	42	3.5	14
Brown Silty CLAY						Gray SILT		_	45	S/5	
		_	3	1.4	24		511	1.80	\dashv		
			4	S/10							
	530.80					Gray Clay LOAM		_			
Brown and Gray Silty Clay LOAM		-5	3	1.4	23			2	24	6.8	8
		_	5	S/5	20		508	3.80	37	S/10	
	528.30	_				END OF BORING		-	-		
Brown and Gray Clay LOAM		_	2	4.5	00	End of Boring					
			4	1.5 S/10	23			_	-		
								-	7		
		-10	2					3	30		
		_	3 5	1.6 S/10	21				-		
		_						_			
			2					_	+		
			5 7	1.9 S/5	18			_			
				3/3				_			
		-15	2					-3	35		
			3	1.3	22						
	∇		4	S/15				_	\dashv		
		_	7					_	\exists		
		_	30	3.9	11			_			
		_	50	S/5				-	\dashv		
	515.30							_			
Brown SAND	514.80	-20	40					-4	Ю		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date 10/4/96

ROUTE		DES	SCR	IPTION			ead Rest Area - High N Southbound	nast Eighting		ogg	ED BY	Larry	/ Fo
SECTION	60-1RA,L			LOCAT	TION	SE 1/4	, SW 1/4, SEC. 14, TV de , Longitude	VP. 5N, RNG.	7W, 3 rd	PM,			
OUNTY Mad	lison DF	RILLING	ME	THOD			low Stem Auger	HAMMER	TYPE	1	40# A	utoma	tic
STRUCT. NO Station BORING NO	N/A #4		D E P T	B L O W	U C S	M O I S	Surface Water Elev. Stream Bed Elev. Groundwater Elev.:		_ ft _ ft	D E P T	B L O W	U C S	0 1
Station 1 Ground Surface Ele	206+80 07.0 ft Right	ft	H (ft)	S (/6")	Qu (tsf)	(%)	First Encounter Upon Completion After Hrs.		_ft _ft∑ ft	H (ft)	(/6")	Qu (tsf)	(%
Gray and Brown Silty			(,	(, - ,	(12.)	(70)	Gray and Brown Clay		_ "		24	3.9 S/5	9
oray and brown only	y Olay LOAW		_				(_		0.0	
			_	4						_			
				5 7	1.0 S/10	19							
			_							_			
			-5	3	4.5	40				-25		0.4	
			_	4 5	1.5 S/15	19			505.70	_	17 23	6.4 S/15	ç
		525.20	-	-			END OF BORING			_			
Gray and Brown Cla	y LOAM		_	2	1.6	22	End of Boring						
			_	5	S/5								
			_							_			
			-10	5	2.0	19				-30			
			_	6	S/10								
		Ā	_	0						_			
			_	2		19				_			
			-	3	NC					_			
			-15	8						-35			
				14 30	3.7 S/5	10							
			_	30	3/3					_			
				18						_			
			_	22 36	5.3 S/10	10				_			
			_		5, 10					_			
			-20	12						-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

65, 101111 157 (Nev. 0-3

DELTA ENGINEERING GROUP

USER NAME = \$USER\$	DESIGNED - AM/HM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KK/HM	REVISED -
PLOT DATE = \$DATE\$	DATE - 01/31/23	REVISED -

SCALE:

													SBL	-03
								F.A. RTE	SECT	ПОИ		COUNTY	TOTAL SHEETS	SHEET NO.
			SOI	L B	DRING I	LOGS		55	60-(1,2) HL-1		MADISON	12	9
												CONTRAC	Γ NO. 7	6R27
NONE	SHEET	1	OF	1	SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		



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Homestead Rest Area - High Mast Lighting - Southbound LOGGED BY Larry Ford

ROUTE	DE	SCRIP	TION			Southbound		LC	OGG	ED BY	Larry	/ Ford
SECTION	60-1RA,L	LC	CAT	ION	SE 1/4	1, SW 1/4, SEC. 14, TW lde , Longitude	P. 5N, RNG.	7W, 3 rd	PM,			
COUNTY Madi	son DRILLING	METI	HOD		Hol	llow Stem Auger	HAMMER	TYPE	1	40# A	utoma	tic
STRUCT. NO	N/A N/A	D E P	B L O	U C S	M O I	Surface Water Elev. Stream Bed Elev.		_ ft _ ft	D E P	B L O	U C S	M 0 1
Station11	#5 211+80 2.0 ft Right	T H	W S	Qu	S T	Groundwater Elev.: First Encounter Upon Completion	514.5	_ ft _ ft∑	H	w s	Qu	S T
Ground Surface Ele	v. 526.00 ft	(ft) ((/6")	(tsf)	(%)	After Hrs.		ft	(ft)	, ,	(tsf)	(%)
Brown Clay LOAM						Brown and Gray Clay (continued)	LOAM		_	17 22	8.3 S/10	9
		_							-			
		_										
									_			
			2						_	_		
		-5	5	2.4	17				-25	5 10	3.7	11
			6	S/10				500.00	_	15	S/10	
		-				END OF BORING			-			
			2			End of Boring						
			2	1.0 S/10	20							
	517.00	-		5/10					-			
	7											
Brown Loamy SAND		-10	18 28						-30			
			40	NC					_			
	$\bar{\Delta}$											
		_	14									
			26									
	512.50		34	NC					_			
Brown and Gray Clay	LOAM								_			
, ,		-15	13						-35			
		_	22 32	7.4 S/5	9				-			
									_			
			15									
		+	23	6.4	10				-			
		1	30	S/10								
		\dashv										
		-20	11						-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)



SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date __10/3/96__

	Illinois Department of Transpor	rtation				lomost	and Post Area High Most I	iahtina		Date	10/	3/96
ROUTE		DE	SCR	IPTION	ı	omesi	ead Rest Area - High Mast L Northbound	LC	OGGI	ED BY	Larry	/ Ford
SECTION	60-1RA,L		1	OCAT	ION	SE 1/4	, SW 1/4, SEC. 14, TWP. 5N	I, RNG. 7W, 3 rd	PM,			
COUNTY	Madison DRI	ILLING	ME	THOD	<u>-</u>	Hol	de , Longitude low Stem Auger HA	MMER TYPE	1	40# A	utoma	tic
Station BORING NO. Station Offset	. N/A N/A 1 205+75 125.0 ft Right face Elev. 526.50		D E P T H	B L O W S	U C S Qu (tsf)	M O I S T	Surface Water Elev. Stream Bed Elev. Groundwater Elev.: First Encounter Upon Completion After Hrs.	ft	D E P T H	B L O W s	U C S Qu (tsf)	M O I S T
Brown Silty C	CLAY		_				Brown and Gray Clay LOAI (continued)	M	_	16 25	5.4 S/5	15
			_	5 6 5	1.2 S/5	16			_			
			-5	3 4	1.9	22			-25	5	2.9	11
		520.00		6	S/5		END OF BORING End of Boring	500.50		13	S/15	
Brown and G	ray Clay LOAM		_	6 9	2.7 S/5	20	Life of Borning		_			
			-10	3 6 7	1.9	21			-30			
			_	2	S/5				_			
				2 4	1.5 S/10	19			_			
			-15	5 8 13	4.0 S/10	11			-35			
			_	18								
				27 30	4.8 S/5	8						
			-20	12					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

DELTA ENGINEERING GROUP

USER NAME = \$USER\$	DESIGNED - AM/HM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KK/HM	REVISED -
PLOT DATE = \$DATE\$	DATE - 01/31/23	REVISED -

					SBL	-04
		F.A. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SOIL BORING LO	GS	55	60-(1,2) HL-1	MADISON	12	10
				CONTRACT	NO. 7	6R27
ALE: NONE SHEET 1 OF 1 SHEETS S	ΓA. TO STA.		ILLINOIS FED.	AID PROJECT		



Page <u>1</u> of <u>1</u>

	Division of Highways Illinois Department of Transp	ortation	011						Date	10/	/3/96	
ROUTE		_ DE	SCR	IPTION		lomest	ead Rest Area - High Mast Lighti Northbound		OGG	ED BY	Larry	y Ford
SECTION	60-1RA,L		_ 1	_OCAT	TION	SE 1/4	I, SW 1/4, SEC. 14, TWP. 5N, RN Ide , Longitude	IG. 7W, 3 ⁿ	PM,			
COUNTY	Madison DF	RILLING	ME	THOD			llow Stem Auger HAMM	ER TYPE	1	140# A	utoma	itic
	N/A		D E P T	B L O W	U C S	M O I S	Surface Water Elev. Stream Bed Elev. Groundwater Elev.:		D E P T	B L O W	U C S	M 0 1 s
Station	2 209+00		Ĥ	s	Qu	T	First Encounter	ft	н	s	Qu	T
Offset	123.0 ft Right		/£4\	//em	4-5	(0/)	Upon Completion 507	7.2 ft∑	/645	((em)	(4-5)	(0/)
Ground Surfa	ce Elev. 526.20	ft	(ft)	(/6")	(tsf)	(%)	After Hrs.		(ft)		(tsf)	(%)
Brown Silty Cla	y LOAM		_				Brown Sandy LOAM (continued		_	19 31	NC	
			_	-				504.70				
			_	3 5	1.5	20	Gray Clay LOAM				4.6	11
				7	S/10						4.6 S/5	
		522.20									(0.0)	
Silty CLAY			-5	3 5	1.8	19			-25	9	5.1	11
			_	6	S/10			500.20	_	23	S/10	1.1
		519.70									***************************************	
							END OF BORING End of Boring					
Brown and Gra	y Clay LOAM		_	2 5	2.5	20	End of Boring		-			
				6	S/5	20			_			
			_									
			-10	2	1.6	19			-30			
			-	5	S/5	10			_			
				0								
			_	6	2.3	12			_			
				10	S/5	'-						
			45	11								
			-15	31	4.1	9			-35			
				61	S/5							
				11								
			_	20	6.2	10			_			
				41	S/5							
			_				11			1		

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)
BBS, form 137 (Rev. 8-99)

Illinois Department of Transportation

Division of Highways
Illinois Department of Transportation

SOIL BORING LOG

Page $\underline{1}$ of $\underline{1}$

Date ___1/7/97

	Division of Highways Illinois Department o	Transportation					-10-11			Date	1/	7/97
ROUTE		DE	SCR	IPTION			ead Rest Area - High Mast Lighting Northbound		oggi	ED BY	Larry	/ For
SECTION	60-1R	A,L	1	LOCAT	TION	SE 1/4	4, SW 1/4, SEC. 14, TWP. 5N, RNG ide , Longitude	5. 7W, 3 rd	PM,			
COUNTY	Madison	DRILLING	G ME	THOD			llow Stem Auger HAMMEI	R TYPE	1	40# A	utoma	tic
STRUCT. NO. Station BORING NO.	N/A 3		D E P T	B L O W	U C S	M O I s	Surface Water Elev. Stream Bed Elev. Groundwater Elev.:	ft ft	D E P T	B L O W	U C S	M O I S
Station	119+45 85.0 ft L	eft 29.60 ft	H (ft)	s (/6")	Qu (tsf)	(%)	First Encounter	ft S ft∑ ft	H (ft)	s (/6")	Qu (tsf)	(%
Brown Silty Cla	av I OAM		_				Brown Clay LOAM (continued)		_	50 -	6.6 S/5	9
Brown City Cit	Jy LO7 IIVI		_	3			Brown SAND Lens	508.10 507.60		12		
			_	5 7	1.2 S/10	23	Gray Silty Clay LOAM		_	23 36	4.5 S/5	15
			-5	3	1.4	20			-25	10 17	7.2	1:
				8	S/10			503.60		22	В	·
Brown Clay LO	DAM	523.10	<u>. </u>	3 5	2.3	21	END OF BORING End of Boring		_			
			_	7	S/15	90.000			_			
			-10	3 4 7	1.8	20			-30			
					S/10							
			_	3 4 5	1.3 S/15	18			_			
			-15	3					-35			
				6 11	3.5 S/10	13						
			_	8	4.5	11			_			
		Ž	7	19	S/15				\equiv			
			-20	18					-40			

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

DELTA ENGINEERING GROUP

Brown Sandy LOAM

USER NAME = \$USER\$	DESIGNED - AM/HM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KK/HM	REVISED -
PLOT DATE = \$DATE\$	DATE - 01/31/23	REVISED -

SCALE:

														SBL	-05	l
							F.A. RTE	SEC	TION		COUNTY	TOTAL SHEETS	SHEET NO.			
SOIL BORING LOGS						55 60-(1,2) HL-1 M			MADISON	12	11	l				
													CONTRAC	T NO. 7	6R27	
NONE	SHEET	1	OF	1	SHEETS	STA.	TO	STA.		ILLINOIS FED. AID PROJECT						



Page $\underline{1}$ of $\underline{1}$

Date ___1/7/97

Homestead Rest Area - High Mast Lighting -Northbound ROUTE DESCRIPTION LOGGED BY Larry Ford $\begin{array}{c} \textbf{LOCATION} \quad \underline{\text{SE 1/4, SW 1/4, SEC. 14, TWP. 5}} \text{N, RNG. 7W, 3}^{\text{rd}} \, \textbf{PM,} \\ \hline \text{Latitude} \quad , \, \textbf{Longitude} \end{array}$ SECTION 60-1RA,L 140# Automatic COUNTY Madison DRILLING METHOD HAMMER TYPE U C S М О U C S STRUCT. NO. Surface Water Elev. L O N/A W BORING NO. Qu S Qu H S Station 123+00 First Encounter 508.0 ft ∑ ft Offset 85.0 ft Left **Upon Completion** ft (ft) (/6") (tsf) (%) (ft) (/6") (tsf) (%) Ground Surface Elev. 528.50 After Hrs. 36 5.0 8 45 \ S/5 / Brown Silty CLAY Brown SAND NC 3 506.00 6 2.8 26 30 8 S/10 37 6.1 Gray Sandy Clay LOAM S/0 / 503.50 -25 10 6 1.5 2 Gray Fine SAND 8 S/10 33 NC 502.50 522.00 END OF BORING End of Boring Brown Clay LOAM 5 2.0 19 8 S/10 -30 -10 1 4 1.9 21 6 S/5 2 0.7 15 4 S/10 514.50 -35 Gray Sandy Clay LOAM 26 S/5 25 52 3.9 8 - S/0 -20 23

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer) The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

DELTA ENGINEERING GROUP

USER NAME = \$USER\$	DESIGNED - AM/HM	REVISED -
	DRAWN - AM	REVISED -
PLOT SCALE = \$SCALE\$	CHECKED - KK/HM	REVISED -
PLOT DATE = \$DATE\$	DATE - 01/31/23	REVISED -

									SBL	-06
				F.A. RTE	SECT	ΓΙΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
	55	60-(1,2	?) HL-1		MADISON	12	12			
						CONTRACT	NO. 7	6R27		
SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		