

SOIL BORING LOG

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Date <u>04/09/12</u>

KOUTE	FAP 312	DESCRIPTION Waterloo Bypass - Shared Use Culvert Boring						LOGGED BY			
SECTION	68-WRS-1		LOCAT	ION _	NW 1/	4 of the NE 1/4, SEC. 36, TWP. 2S, RNG.	10W				
COUNTY	Monroe DRILLII	NG METHODC			С	ME 750 w/HSA HAMMER TYPE		Automatic			
STRUCT. NO. 067-2427 Station 2019+30 BORING NO. B-205		D E P T	B L O W	U C S	M 0 1 s	Surface Water Elev. N/A ft Stream Bed Elev. N/A ft		B L O W	U C S	M O I S	
Station	2018+93 48 ft LT	Ĥ	S	Qu	T	Groundwater Elev.: First Encounter 601.9 ft ▼ Upon Completion 594.9 ft ▼ After Hrs. Not Obs. ft	H	s	Qu	T	
Ground Surf	ace Elev. 619.4 ft	t (ft)	(/6")	(tsf)	(%)	After Hrs. Not Obs. ft	(ft)	(/6")	(tsf)	(%)	
CLAY: Brown [A-7]		_				CLAY: Gray, with fine to medium	-				
		_	2	1.7	27	sand and fine sand layers	_	4 7	4.3	40	
			3	В	21		-	11	В	18	
	Gray and brown,					SANDY SILT: Gray, with fine sand	78				
with iron stain [A-6]	s, trace sand		1 1 2	0.5 B	29	layers [A-4]	 ∑ 25	7 22 28	1.5 S/20	17	
CLAY: Gray, v	with iron stains, trace					CLAY: Gray, with sand					
sand [A-7]			1 2 3	1.6 B	22	[A-7]	_	4 6 7	2.5 S/20	19	
		_					_				
Trace grav	el	-10		1.0 S/2.0	21		-30	2 3 5	1.9 B	19	
SANDY CLAY	': Gray, with iron					Boring terminated at 30.0 ft.	-				
stains, trace g		-	2	1.2	18	Boring grouted to 30.0 ft.					
		_	5	В	10						
CLAY: Gray, v	with iron stains, trace						=				
[A-7]			1 3 5	0.8 S/20	20						
	Gray, with iron		-				2-				
stains and sar [A-6]	nd, trace organics	_	1 2 4	2.3 B	23		35				
SILT: Brown		_=					_				
[A-4]		-	5 10	1.1	24		-				
With sand	and gravel	-20	+	S/20			-40				

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)



FAP 312

ROUTE

SOIL BORING LOG

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Date 04/06/12

DESCRIPTION Waterloo Bypass - Shared Use Culvert Boring LOGGED BY SCI (TT)

LOCATION NW 1/4 of the NE 1/4 SEC 36 TWP 2S RNG 10W SECTION 68-WRS-1

*			_		4 of the NE 1/4, SEC. 36, TWP. 2S, RNG				
COUNTY Monroe DRII	LING ME	ING METHOD C			ME 750 w/HSA HAMMER TYPE	_	Automatic		
STRUCT. NO. 067-2427 Station 2019+30 BORING NO. B-206 Station 2019+20 Offset 56 ft LT Ground Surface Elev. 619.2	D E P T H - (ft)	B L O W S	U C S Qu (tsf)	M O I S T	Surface Water Elev. N/A ft Stream Bed Elev. N/A ft Groundwater Elev.: Not Obs. ft First Encounter Not Obs. ft Upon Completion Not Obs. ft After Hrs. Not Obs. ft	D E P T H	B L O W S	U C S Qu (tsf)	M C 1 5 1
SILTY CLAY: Brownish gray, with iron stains, trace sand, organics and iron nodules [A-6]	_	1 2 3	0.8 B	23	CLAY: Gray and brown, trace sand and iron nodules [A-7] (continued) Becomes gray, trace gravel		5 6 8	1.7 B	1
		1 1 2	1.0 B	26		-25	2 4 5	1.9 B	1
CLAY: Gray and brown, trace									
and and Iron nodules A-7]		1 3 4	2.2 S/20	21			2 3 4	1.3 B	3.0
Becomes gray, with iron stains	-10	2 4 5	3.1 B	20	Boring terminated at 30.0 ft.	-30	2 3 5	1.6 B	2
		2 4 6	2.9 B	19	Boring grouted to 30.0 ft.				
		3 3 6	3.2 B	20		-35			
Becomes brown and gray, with		7 7 10	5.7 B	16					
		4 6 10	5.1 S/20	21					

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
AASHTO Classifications are based on visual classifications unless otherwise noted BBS, form 137 (Rev. 8-99)

FILE	NAME = I:\1001100_Phase II - 76817
	■■HORNER &
	LE HORNER & SHIFRIN, INC.
	ENGINEERS

7	ad\S_Plans\0672427-76817.dgn	DESIGNED	-		REVISED
	USER NAME = elagemann	CHECKED	-		REVISED
	PLOT SCALE =	DRAWN	-	E.M. Lagemann	REVISED
	PLOT DATE = 1/25/2013	CHECKED	-	K.L. Hayes	REVISED

BORING LOGS	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.	
STRUCTURE NO. 067-2427	312	68-WRS-1	MONROE	760	432	
3111001011L NO. 007-2427			CONTRACT	NO. 7	76817	
SHEET NO. 19 OF 20 SHEETS		TILL INDIS FED. AID PROJECT				