### **CDS Inspection & Maintenance Log**

CDS Model:	Location:

Date	Water depth to sediment <sup>1</sup>	Floatable Layer Thickness²	Describe Maintenance Performed	Maintenance Personnel	Comments

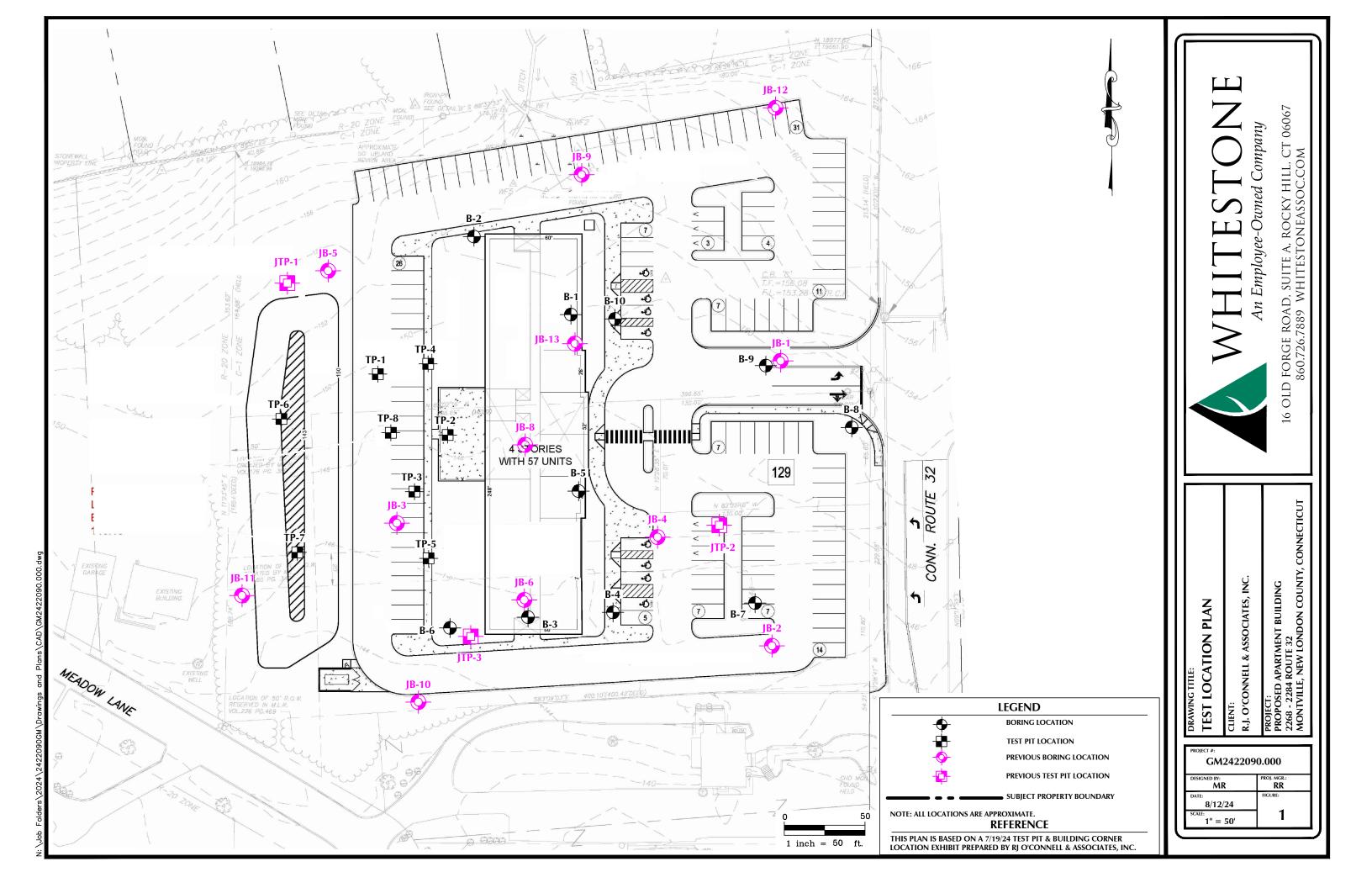
<sup>1.</sup> The water depth to sediment is determined by taking two measurements with a stadia rod: one measurement from the manhole opening to the top of the sediment pile and the other from the manhole opening to the water surface. If the difference between these measurements is less than the values listed in table 1 the system should be cleaned out. Note: to avoid underestimating the volume of sediment in the chamber, the measuring device must be carefully lowered to the top of the sediment pile.

<sup>2.</sup> For optimum performance, the system should be cleaned out when the floating hydrocarbon layer accumulates to an appreciable thickness. In the event of an oil spill, the system should be cleaned immediately.

# APPENDIX E Appendix A from the Report of Geotechnical Investigation By Whitestone Associates, Inc.



# FIGURE 1 Test Location Plan





# APPENDIX A Records of Subsurface Exploration (WAI Boring B-1 thru B-10; WAI Test Pits TP-1 thru TP-8; JP Borings JB-1 thru JB-6, JB-8 thru JB-13; JGI Test Pits JTP-1, JTP-2 & JTP-3)



Project:		Propo	sed Apartment Build	ding							WAI Project No.:	GM2422090.000	
ocation:			- 2284 Connecticut		32, Mor	ntville, Nev	w London Cou	nty, Co	nnecticut		Client:	R.J. O'Connell &	Associates, Inc.
Surface El			± 150.0 fee				Date Started:		7/23/2024	Water	Depth   Elevation	Cave-Ir	Depth   Elevation
Terminatio				t bgs			Date Complete	-	7/23/2024	(f	eet bgs)   (ft NAVD88)		eet bgs)  (ft NAVD88)
Proposed			Building	-			ogged By:	JB -		During:	🏋		
Orill / Test			HSA / SPT (A	utohar	mmer)		Contractor:	DE		At Completion:		At Completion:	<u>\text{\tin}\text{\tetx{\text{\text{\text{\texi}\}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}}</u>
							Equipment:	Mobile	B-57	24 Hours:		24 Hours:	<u>\</u>
											*		<del>-</del>
	SA	MPLE	INFORMATION			DEPTH	STRAT			DESCRIPTION	N OF MATERIALS		DEMARKS
Depth	N	4	Diama Dan Cil	Rec.		(f = = 1)	SIRAI	A			sification)		REMARKS
(feet)	No	Type	Blows Per 6"	(in.)	N	(feet) 0.0				(Clas	Silication)		
				$\vdash$		- "		\\\\/					
		$\setminus /$				-	TS	_	16" Topsoil				
0 - 2	S-1	X	1 - 2 - 2 - 2	20	4	_		<u> </u>					
		$/\ \setminus$				-	SUBSOIL	ШШ	8" Subsoil, Roots				
						1 -		200					
2 - 4	S-2	V	1 - 2 - 3 - 4	20	5			138	Gray-Brown, Loos	e, Silty Sand (FILL)			
2-4	3-2	Λ	1 - 2 - 3 - 4	20			EXISTING	1888					
		igstyle igstyle		Ш	<u> </u>	1 _	FILL	1888					
				7	1	-		[※※					
				ш	Ь—	5.0		XXX					
		$\setminus \land$			1	-	01.45				0111 0 1 111 5	. (0.1)	
5 - 7	S-3	Χ	7 - 12 - 18 - 24	16	30	_	GLACIAL		Gray to Brown, Me	edium Dense to Dens	se, Silty Sand with Grave	I (SM)	
		$ /\rangle $			1	7.0	TILL	Ш					
		( )		├─┤	$\vdash$	, · · · —							
		$ \backslash / $			1	-	WEATHERED		Weathered Bedro	rk			
7 - 9	S-4	X	28 - 27 - 35 - 30	16	62	-	BEDROCK		TT GALIETEU DEUIO	on.			Offset boring
		$/ \setminus$			1	-	50	器器					Similar refusal
				М					Boring Log B-1 Te	rminated upon Auge	r Refusal at Depth of 9 fb	ogs.	
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Project: Proposed Apartment Building WAI Project No.: GM2422090.000													
ocation:		2268	- 2284 Connecticut	Route	32, Mor	ntville, Ne	w London Cou	nty, Co	nnecticut		Client:	R.J. O'Connell &	Associates, Inc.
Surface Ele	evatio	n:	± 151.0 fee	t Abov	e NAVI	D88 I	Date Started:		7/23/2024	Wate	r Depth   Elevation	Cave-In	Depth   Elevation
Terminatio	n Dep	th:	9.0 fee	t bgs			Date Complete	ed:	7/23/2024	(1	feet bgs)   (ft NAVD88)	(f	eet bgs)  (ft NAVD88)
Proposed			Building				Logged By:	JB -		During:	Ā		
Orill / Test			HSA / SPT (A	utohar	mmer)		Contractor:	DE		At Completion:		At Completion:	I <u>F</u>
					- /		Equipment:	Mobile	B-57	24 Hours:		24 Hours:	<u>\</u>
	SA	MPLI	E INFORMATION	l		DEPTH							
Depth				Rec.			STRAT	Α			N OF MATERIALS	3	REMARKS
(feet)	No	Туре	Blows Per 6"	(in.)	N	(feet)				(Clas	sification)		
						0.0							
		\ /				_	TS	<u>~!//</u>	6" Topsoil				
0 - 2	S-1	X	2 - 2 - 3 - 2	22	5	_							
		$ \Lambda $				-	SUBSOIL		18" Subsoil, Roots	5			
		(-)						0.00					
		$\setminus$				-		[XX	Brown, Loose, Silt	··· Cond (FILL)			
2 - 4	S-2	X	2 - 2 - 4 - 5	12	6	-	EXISTING		Brown, Loose, Sin	y Sanu (FILL)			
		$/ \setminus$				-	FILL	1888					
						- 1	1 122						
						5.0	1	XX					
						1 -		ми					
	0.0	V	44 00 40 04	40	00	-	GLACIAL		Brown, Very Dens	e, Silty Sand with G	ravel (SM)		Cobbels & Boulders
5 - 7	S-3	X	14 - 28 - 40 - 24	16	68		TILL	Ш					
		$/ \setminus$				7.0		ии					
		\ /				] _		EEE					
7 - 9	S-4	V	21 - 24 - 32 - 36	18	66	_	WEATHERED		Weathered Bedro	ck			
		$ \Lambda $				_	BEDROCK						
		<u>/ \</u>				-			Davis a Las DOT		- D-6		
						10.0	1		Boring Log B-2 Te	rminated upon Auge	er Refusal at Depth of 9 fl	ogs.	
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Project:	Proposed Apartment Building WAI Project No.: GM2422090.000												
_ocation:		2268	- 2284 Connecticut	Route	32, Mor	ntville, N	ew London Cou	nty, Co	nnecticut		Client:	R.J. O'Connell &	
Surface Ele	evatio	n:	± 145.3 fee	t Abov	/e NAVΓ	088	Date Started:		7/23/2024	Wate	r Depth   Elevation		Depth   Elevation
Γerminatio	n Dep	th:	4.0 fee	et bgs			Date Complet	ed:	7/23/2024	(1	feet bgs)   (ft NAVD88)	(f	eet bgs)  (ft NAVD88)
Proposed I			Building				Logged By:	JB		During:	<b>__</b>		
Orill / Test			HSA / SPT (A	utohar	mmer)		Contractor:	DE		At Completion:		At Completion:	<u>  </u>
			_				Equipment:	Mobile	B-57	24 Hours:		24 Hours:	💆
							I						
	SA	MPLE	INFORMATION			DEPTI	STRAT	-Δ		DESCRIPTION	N OF MATERIALS	,	REMARKS
Depth (feet)	No	Туре	Blows Per 6"	Rec. (in.)	N	(feet)	JINAI	^			sification)		KLIMAKKO
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				М		1 -	<b>—</b>	\\I/	101 T "				
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0 - 2	S-1	$ \Lambda $	2 - 2 - 4 - 9	18	6		SUBSOIL		14" Subsoil, Roots				
		igspace		Ш	<u> </u>	_							
2 - 2.6	S-2	$\simeq$	14 - 50/1"	6	-		GLACIAL		Brown, Dense, Sil	ty Sand with Gravel	(SM)		
					1	3.0	TILL		Moothered Ded	ak			Offeet haring
					1		WEATHERED BEDROCK		Weathered Bedro	GR.			Offset boring Similar refusal
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Location:			- 2284 Connecticut								Client:	R.J. O'Connell &	
Surface Ele			± 146.4 fee		e NAVE		Date Started:	-	7/23/2024		epth   Elevation		Depth   Elevation
Terminatio	n Dep	th:	4.5 fee	t bgs			Date Complete	ed:	7/23/2024	-	bgs)   (ft NAVD88)	(f	eet bgs)   (ft NAVD88)
Proposed I	Locati	on:	Building					JB		During:	<u></u>		
Drill / Test	Metho	od:	HSA / SPT (A	utohar	mmer)		Contractor:	DE		At Completion:	<del></del> <del></del>	At Completion:	I <u> </u> <u> </u> <u> </u> <u> </u>
							Equipment:	Mobile	B-57	24 Hours:	<b>Y</b>	24 Hours:	I <u>\</u>
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	SA	WIPLE	INFORMATION			DEPTH	STRAT	Α		DESCRIPTION	OF MATERIALS	;	REMARKS
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	0.4	V		40			TS	<u> </u>	10" Topsoil				
0 - 2	S-1	Λ	3 - 3 - 3 - 5	18	6	_	SUBSOIL	ШШ	14" Subsoil, Roots				
		$\angle$				l <u> </u>	SUBSUIL		14 Subsoil, Roots	5			
		\ /				l .	EXISTING	<b>XX</b>	Brown, Loose, Sil	y Sand with Gravel, Cer	amics (FILL)		
2 - 4	S-2	V	4 - 5 - 21 - 27	18	26	3.0	FILL						
		Λ					GLACIAL		Brown, Dense, Sil	ty Sand with Gravel (SM	1)		
		igwedge					TILL						Offset boring
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Project:		Propo	sed Apartment Build	ding							WAI Project No.:	GM2422090.000	
ocation:		2268	- 2284 Connecticut	Route	32, Mor	ntville, Ne	w London Cou	nty, Co	nnecticut		Client:	R.J. O'Connell &	Associates, Inc.
Surface Ele	evatio	n:	± 147.1 fee	t Abov	e NAVE	088 I	Date Started:		7/23/2024	Wate	r Depth   Elevation	Cave-Ir	Depth   Elevation
Terminatio	n Dep	oth:		t bgs			Date Complete		7/23/2024	(1	feet bgs)   (ft NAVD88)	(f	eet bgs)  (ft NAVD88)
Proposed			Building	-			-	JB -		During:	🔏		
Orill / Test			HSA / SPT (A	utohai	mmer)			DE		At Completion:		At Completion:	<u></u>   <u> </u> <u>2</u>
	•				/			Mobile	B-57	24 Hours:		24 Hours:	
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Depth				Rec.			STRAT	A			ON OF MATERIALS		REMARKS
(feet)	No	Туре	Blows Per 6"	(in.)	N	(feet)				(Clas	ssification)		
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		$\setminus \Lambda$				-	TS	~!!	6" Topsoil				
0 - 2	S-1	X	1 - 1 - 1 - 2	18	2	-	1						
		$ / \setminus $				-	SUBSOIL		30" Subsoil, Roots	•			
		$\langle \cdot \rangle$				l –	JUDGOIL		oo oubsoil, Rook	•			
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2 - 4	S-2	X	2 - 2 - 7 - 15	10	9	-		14134	Brown, Medium D	ense, Silty Sand with	n Gravel (SM)		
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E E O	6.3	abla	10 50/2"	4		1 -	WEATHERED	噩	Weathered Bedro	ck			
5 - 5.8	S-3	$\angle \setminus$	19 - 50/3"	4	-		BEDROCK						
									Boring Log B-5 Te	erminated upon Auge	er Refusal at Depth of 5.8	fbgs.	
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roject:			sed Apartment Bull						WAI Project No.:	GIVI2422090.000			
ocation:			- 2284 Connecticut								Client:	R.J. O'Connell &	
Surface El			± 144.4 fee		e NAVE		Date Started:		7/23/2024		r Depth   Elevation		Depth   Elevation
Terminatio	n Dep	th:	4.5 fee	t bgs		Į.	Date Complete	ed:	7/23/2024		eet bgs)   (ft NAVD88)		eet bgs)   (ft NAVD88)
Proposed	Locati	on:	Building					JB		During:	Ā		
Orill / Test	Metho	od:	HSA / SPT (A	utohar	mmer)		Contractor:	DE		At Completion:	<u> </u> \\\nabla	At Completion:	I <u>p</u>
							Equipment:	Mobile	B-57	24 Hours:	<u> </u>	24 Hours:	I 💆
	SA	MPIF	E INFORMATION			DEST						1	
Depth (feet)	No	Туре	Blows Per 6"	Rec. (in.)	N	(feet)	STRAT	Α			N OF MATERIAL sification)	S	REMARKS
						0.0							
0 - 2	S-1	$\bigvee$	3 - 2 - 1 - 3	20	3	<u>-</u>	TS	<u>~!//</u>	12" Topsoil				
		$\langle \cdot \rangle$				_	SUBSOIL 12" Subsoil, Roots  GLACIAL Brown, Dense, Silty Sand with Gravel (SM)						Cobbles & Boulders
2 - 4	S-2	X	12 - 19 - 28 - 46	18	47	3.0	TILL WEATHERED						
		$\triangle$				- -	BEDROCK		Weathered Bedro				
						5.0				rminated upon Auge	er Refusal at Depth of 4	5 fbgs.	
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Project:		Propo	sed Apartment Build	ding							WAI Project No.:	GM2422090.000	
_ocation:		2268	- 2284 Connecticut	Route	32, Mor	ntville, Ne	w London Cou	nty, Co	nnecticut		Client:	R.J. O'Connell &	
Surface El	evatio	n:	± 146.3 fee	t Abov	e NAVI		Date Started:	-	7/24/2024	Water	r Depth   Elevation	Cave-Ir	Depth   Elevation
Γerminatio	n Dep	th:	9.0 fee	t bgs		ļ.	Date Complete	ed:	7/24/2024	(f	eet bgs)   (ft NAVD88)	(f	eet bgs)  (ft NAVD88)
Proposed	Locati	on:	Parking				ogged By:	JB		During:	<u>                                  </u>		
Orill / Test	Metho	od:	HSA / SPT (A	utohar	mmer)		Contractor:	DE		At Completion:	<u> </u> ▽	At Completion:	<u> </u> <u> </u> <u> </u>
							Equipment:	Mobile	B-57	24 Hours:	<u>  </u> 🔻	24 Hours:	<u></u>   <u></u> <u>⊠</u>
	SA	MDII	E INFORMATION			l							
Donth	37	VII L			Г	DEPTH	STRAT	Α.		DESCRIPTIO	N OF MATERIALS	<b>S</b>	REMARKS
Depth (feet)	No	Туре	Blows Per 6"	Rec. (in.)	N	(feet)					sification)		
						0.0							
		\ /	10/			_	TS	<u>~!''</u>	6" Topsoil				
0 - 2	S-1	Χ	O - 1 - 1 - 5	22	2	_							
		$/ \setminus$	Н			-	SUBSOIL		18" Subsoil, Roots	3			
		$( \rightarrow )$				<del> </del>		HHH					
		$\bigvee$				-			Gray-Brown, Very	Dense, Silty Sand w	rith Gravel (SM)		
2 - 4	S-2	X	8 - 20 - 38 - 21	14	58	_							
		$\angle$											
						_							
						5.0	01.40/**						
		\				-	GLACIAL TILL		As Above, Dense	(SM)			
5 - 7	S-3	Х	3 - 16 - 21 - 23	14	37	_	TILL		As Above, Delise	(SIVI)			Cobbles & Boulders
		$/\setminus$				-							
						_							
7 - 9	S-4	$\vee$	4 - 24 - 23 - 28	10	47				As Above (SM)				
, ,	0 1	Λ	4 24 20 20	10		_							
						ļ		FEEF	Davis a Las D 7 Ta		- D-4I -4 D44-04		
						10.0			Boring Log B-7 Te	rminated upon Auge	r Refusal at Depth of 9 ft	ogs.	
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Project:			sed Apartment Build							W	Al Project No.:	GM2422090.000	
.ocation:		2268	- 2284 Connecticut I	2284 Connecticut Route 32, Montville, New London County, Connecticut  Client: R.J. O'Connell & A									
Surface El	evatio	n:	± 148.5 fee	t Above	e NAVE	880	Date Started:		7/24/2024	Water De	epth   Elevation	Cave-Ir	Depth   Elevation
erminatio	n Dep	th:	7.3 fee	t bgs			Date Complete	ed:	7/24/2024	(feet	bgs)   (ft NAVD88)	(f	eet bgs)  (ft NAVD88)
Proposed	Locati	on:	Access				Logged By:	JB		During:	<b>A</b>		
Orill / Test	Metho	od:	HSA / SPT (A	utohan	nmer)		Contractor:	DE		At Completion:		At Completion:	<u> </u> <u>  <u>2</u></u>
							Equipment:	Mobile	B-57	24 Hours:	<u></u> Ţ	24 Hours:	<u> l</u> <u>⊠</u>
	67	MPI	INFORMATION			DEST							
Depth	JA	L	- IN OKWATION	Rec.		DEPTH	STRAT	Ά		DESCRIPTION	OF MATERIALS	;	REMARKS
(feet)	No	Туре	Blows Per 6"	(in.)	N	(feet)				(Classif	ication)		
						0.0							
		\					TS	~!!	6" Topsoil				
0 - 2	S-1	У	5 - 2 - 3 - 2	22	5	_	PAVEMENT		2" Asphalt				
		$ /\rangle $					TS	~"	6" Former Topsoil				
		$(\!$				-	SUBSOIL		22" Subsoil, Roots				
		$ \backslash / $				3.0	JOBSUIL		LE GUDSUII, RUUI	•			
2 - 4	S-2	X	2 - 2 - 15 - 30	14	17	-		14114	Gray-Brown, Dens	se, Silty Sand with Grave	el (SM)		Cobbles & Boulders
		$\c/$		_		·	1			-			
						] -	]						
						5.0	GLACIAL						
		$\setminus \Lambda$					TILL		<u> </u>				
5 - 7	S-3	$ \chi $	4 - 19 - 62 - 65	12	81	-	4		As Above, Very D	ense (SM)			
		$ / \setminus  $				7.0	-						
7 - 7.2	S-4	$\hookrightarrow$	50/2"	2		· · · · –	WEATHERED	[-]-	Weathered Bedro	ck			
	J 7	$\overline{}$		-			BEDROCK			rminated upon Auger Re	efusal at Depth of 7.3	fbgs.	
						-				. •	-		
						_ '	]						
						10.0	4						
							4						
						_	4						
							1						
						-	1						
						·	1						
						-	1						
						_ '							
							]						
						15.0	4						
							4						
						_	-						
							1						
						-	1						
							1						
						_	1						
							]						
							]						
						20.0	4						
							4						
						_	4						
							1						
						-	1						
							1						
						-	1						
							]						
							4						
						25.0	4						



Project: Proposed Apartment Building WAI Project No.: GM2422090.000													
_ocation:		2268	- 2284 Connecticut I	Route	32, Mor	ntville, Ne	w London Cou	nty, Co	nnecticut		Client:	R.J. O'Connell &	Associates, Inc.
Surface Ele					∕e NAV⊑		Date Started:		7/24/2024	Wate	r Depth   Elevation	Cave-In	Depth   Elevation
Γerminatio				t bgs			Date Complete	-	7/24/2024		feet bgs)   (ft NAVD88)		eet bgs)   (ft NAVD88)
Proposed I			Access	J-				JB		During:	<b>A</b>	<u> </u>	
Orill / Test			HSA / SPT (A	utohar	mmer)			DE		At Completion:		At Completion:	I <u>F</u>
, 1031								Mobile	B-57	24 Hours:		24 Hours:	
							-quipinent.	IVIODIIE	J.01	∠→ Hours.	<u></u>   <u></u>	2-7 Hours.	I <u>\</u>
	SA	MPLE	INFORMATION			DEPTH							
Depth				Rec.			STRAT	Α			N OF MATERIALS	5	REMARKS
(feet)	No	Туре	Blows Per 6"	(in.)	N	(feet)				(Clas	sification)		
						0.0							
		Ν /				_	TS	<u>~</u>	6" Topsoil				
0 - 2	S-1	١V١	2 - 4 - 4 - 14	22	8								
		$ \Lambda $				_	SUBSOIL		18" Subsoil, Roots	3			
		$\longrightarrow$		igsquare		l _							
		$\setminus$ /			i	_							
2 - 4	S-2	ΙXΙ	22 - 34 - 42 - 50	14	76	_	GLACIAL		Gray-Brown, Very	Dense, Silty Sand w	vith Gravel (SM)		
		$ /\backslash $				_	TILL						Cobbles & Boulders
	0	$(\ \ )$	0 50/4"	$\vdash$	<del> </del>	-	-						
4 - 4.6	S-3	$\sim$	6 - 50/1"	2	-	E 0		HHH	As Above (SM)	erminated one - A:	or Refugel at Danilla of 10	fhac	
					1	5.0	-		Donny Log B-9 Te	minated upon Auge	er Refusal at Depth of 4.6	iugs.	
					i	-	-						
					1	-	1						
					1	-	}						
					1	-	1						
						-	1						
					i	_							
						-							
						_	1						
					i	10.0	1						
					i	_	1						
					i	-	1						
					i	_							
					i	-	1						
					i	_	1						
					i	-	1						
					i	_	1						
					i	_	1						
							1						
						15.0							
							]						
					1	l _	]						
					1								
						_							
					1	-							
					1	_							
					1	-							
						l							
					i	20.0							
					i	-							
					1	-	-						
					1	-	-						
					1	-	-						
					1	-	-						
					1	_	-						
					1	-	1						
					1	_	1						
					1	25.0	1						
					1		1						
				i 1	ı								



 Boring No.:
 B-10

 Page
 1
 of
 1

Project:	Proposed Apartment Building WAI Project No.: GM2422090.000												
ocation:		2268	- 2284 Connecticut	Route	32, Mor	ntville, Ne	w London Cou	nty, Co	nnecticut		Client:	R.J. O'Connell &	Associates, Inc.
Surface El	evatio				ve NAVE		Date Started:		7/23/2024	Water	Depth   Elevation		Depth   Elevation
Γerminatio				t bgs			Date Complet	-	7/23/2024		eet bgs)   (ft NAVD88)		eet bgs)   (ft NAVD88)
Proposed	-		Building	. ago			_ogged By:	JB	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	During:	<b>A</b>	`	37 ft 7
Orill / Test			HSA / SPT (A	utobai	mmor)		Contractor:	DE		At Completion:		At Completion:	N=d I
Jilli / Test	Wietiit	л.	11047 01 1 (A	utoria	illillei)				D 57				
						<u> </u>	Equipment:	Mobile	Б-37	24 Hours:	<u></u>   <b>▼</b>	24 Hours:	<u>  </u> <u>⊠</u>
	SA	MPLE	E INFORMATION	ı		DEPTH							
Depth				Rec.			STRAT	Ά			N OF MATERIALS	3	REMARKS
(feet)	No	Туре	Blows Per 6"	(in.)	N	(feet)				(Clas	sification)		
						0.0							
		Ν/	1			_	TS	<u>~!//</u>	8" Topsoil				
0 - 2	S-1	V	1 - 2 - 2 - 3	18	4	_							
-		Λ				-	SUBSOIL		16" Subsoil, Roots	3			
		$\longrightarrow$				l _							
		$\setminus$	1			_		%					
2 - 4	S-2	X	2 - 2 - 3 - 4	16	5	<u> </u>	EVICTING		Gray-Brown, Loos	e, Silty Sand (FILL)			
		$/\backslash$				-	EXISTING	lXX.					
		$\overline{}$				<b> </b>	FILL	IXX.					
						5.0		<i>X</i> X					
						5.0		14411					
		\ /				-	GLACIAL		Gray Brown Mod	um Dense, Silty San	d with Gravel (SM)		
5 - 7	S-3	X	4 - 10 - 19 - 15	16	29	<u> </u>	TILL		Gray-Brown, Med	uni Dense, Silty San	u with Graver (Sivi)		
		$/ \setminus$				7.0	1166						
		$(\!$				· · · · · · · · · · · · · · · · · · ·							
		$\backslash /$				-	WEATHERED	E-E-E-	Weathered Bedro	ck			
7 - 9	S-4	X	19 - 26 - 27 - 25	16	53	<del>-</del>	BEDROCK		Weathered Bedro	CK			
		$/ \setminus$				-	BEBROOK	甓					
		, ,							Boring Log B-10 7	erminated upon Aug	er Refusal at Depth of 9	fbas.	
						10.0			20g 20g 2	ommated apon riag	or residual at Dopar or o		
						-							
						<u> </u>							
						-							
						_							
						-							
						-							
						15.0							
						l							
						l							
						l _							
						l -							
						l <u> </u>							
						l							
						20.0							
						-							
						l <u> </u>							
						-							
						l –							
						-							
						l –							
						-							
						l —							
						25.0							
				ı	1	I	i						



Test	Pit N	No.:	TP-1	
Page	1	of	1	

Project:	Proposed	Apartment E	Building				WAII	Project No.:	GM2422090.000	
Location:	2268 - 228	34 Connection	cut Route 32	, Montville, New Lor	ndon Co	ounty, Connec	ticut	Client:	R.J. O'Connell &	
Surface Eleva	tion: ±	149.9	feet NAVD8	8 Date Started		7/22/2024	Water Depth	Elevation	Cave	In Depth   Elevation
Termination D		9.0	feet bgs	Date Comple	ted:	7/22/2024	(feet bgs)	(ft NAVD88)	(	(feet bgs)   (ft NAVD88)
Proposed Loc	cation:	SWM Area		Logged By:	JB		During:	<u></u> <u>Y</u>		
Excavating M	ethod:	Midi Excava	ator	Contractor:	CL		At Completion:	l <u></u> ▽	At Completion:	<u></u>   <u>\</u>
Test Method:		Visual Obs	ervation	Rig Type:	Caterp	oillar 314	24 Hours:	l <u></u>		
SAMPLE	INFORM	IATION	DEPTH	STRATA			DESCRIPTION OF			REMARKS
Depth (ft.)	Number	Туре	(feet)				(Classificat	tion)		
			0.0							No indication of ESGWH
				TOPSOIL	<u>~11/</u>	4" Topsoil				
					11111					1
				1						
				SUBSOIL		20" Subsoil, Ro	oots			
				1						
					14411					ł
				1						
3.5	1	Grab								
				1						
			_							
			5.0							
				GLACIAL						
			_							
				TILL	Ш	Gray-Brown, S	ilty Sand with Gravel, Cobbles, Boo	ulders (SM)		
			_	1	Ш					
	_									
7.5	2	Grab		1						
					1-1.11:1			/0E := :	10.1	
			l <u> </u>	]		Test Pit TP-1 T	erminated upon Refusal at Depth	or 9 Feet Below Gro	ound Surface.	
			10.0							
			<u> </u>	1						
			<u> </u>							
			-	1						
				]						
			-	1						
			l <u> </u>							
				1						
			l —	1						
			<u> </u>	]						
			15.0							
			"-	1						



Test	Pit N	lo.:	TP-2
Page	1	of	1

Project:	Proposed	Apartment E	Building					WAI	Project No.:	GM2422090.000		
Location:	2268 - 228	34 Connection	cut Route 32, N	Nontville, New Lor	ndon Co	ounty, Connec	ticut		Client:	R.J. O'Connell &	Associates,	Inc.
Surface Eleva	ation: ±	148.2	feet NAVD88	Date Started:		7/22/2024	Wat	ter Depth	Elevation			Elevation
Termination	Depth:	9.0	feet bgs	Date Comple	ted:	7/22/2024	(	feet bgs)	(ft NAVD88)	(	feet bgs)	(ft NAVD88)
Proposed Lo	cation:	SWM Area		Logged By:	JB		During:		<u> </u>			
Excavating M	lethod:	Midi Excava	ator	Contractor:	CL		At Completion:		∇	At Completion:		l <u></u> <u>\</u>
Test Method:		Visual Obse	ervation	Rig Type:	Caterp	oillar 314	24 Hours:		<u></u> 🔻			
SAMPLE	INFORM	IATION	DEPTH	STRATA					MATERIALS		R	EMARKS
Depth (ft.)	Number	Туре	(feet)				(C	Classifica	tion)			
			0.0								No indicatio	n of ESGWH
					N11/2							
			-									
					<u> </u>							
				TOPSOIL		30" Topsoil						
			-		<u> </u>							
					.>1/.							
					<u> </u>							
			+									
				SUBSOIL		30" Subsoil, Ro	oots					
			5.0		ШШ							
					14141						1	
			_									
			-	01.40141		0 0111 0		5	(0.1)			
				GLACIAL		Gray, Silty San	d with Gravel, Cobble	s, Boulders (	(SM)			
				TILL								
						Test Pit TP-2 T	erminated upon Refu	sal at Denth	of 9 Feet Below Gr	ound Surface		
							ROUGH NOW	-a. a. Dopui	0 . 55t Bolow GI			
			10.0									
			_									
			-									
			-									
			15.0									



Test	Pit	No.:	TP-3
Page	1	of	1

Project:	Proposed.	Apartment E	Building				WAI F	Project No.:	GM2422090.000		
Location:											
Surface Eleva			feet NAVD8		Date Started: 7/22/2024 Water Depth   Elevation Cave-In D						
Termination [	Depth:	8.0	feet bgs	Date Comple	ted:	7/22/2024	(feet bgs)	(ft NAVD88)	(	feet bgs)   (ft NAVD88)	
Proposed Lo	cation:	SWM Area	-	Logged By:	JB		During:	<u></u> <u>Y</u>			
Excavating M	ethod:	Midi Excava	ator	Contractor:	CL		At Completion:	▽	At Completion:	<u></u> <u>\</u>	
Test Method:		Visual Obse	ervation	Rig Type:	Caterp	oillar 314	24 Hours:	<u></u> 🔻			
SAMPLE	INFORM	ATION	DEPTH	STRATA			DESCRIPTION OF I	MATERIALS		REMARKS	
Depth (ft.)	Number	Туре	(feet)				(Classificat	tion)			
			0.0							No indication of ESGWH	
					N11/						
			_								
				TOPSOIL	<u> </u>	24" Topsoil					
			-								
			_		<u> </u>						
			-								
3	1	Grab									
Ü	·	0.00		SUBSOIL		30" Subsoil, Ro	oots				
			5.0		MM						
			5.0								
5.5	2	Grab									
0.0	2	Glab									
				01.40141							
			_	GLACIAL							
				TILL		Brown, Silty Sa	nd with Gravel, Cobbles, Boulders	(SM)			
			_								
			_								
					HIII						
						Test Pit TP-3 T	erminated upon Refusal at Depth of	of 8 Feet Below Gro	ound Surface.		
			10.0								
			10.0								
			_								
			-								
			45.6								
			15.0								



Test	Pit	No.:	TP-4
Page	1	of	1

Project:	Proposed	Apartment E	Building					WAI F	Project No.:	GM2422090.000	
Location:	2268 - 2284 Connecticut Route 32, Montville, New London County, Connecticut  Client: R.J. O'Connell & A									Associates, Inc.	
Surface Eleva	tion: ±	150.6	feet NAVD88	Date Started:		7/22/2024	Water De	epth	Elevation	Cave-	In Depth   Elevation
Termination [	Depth:	8.0	feet bgs	Date Comple	ted:	7/22/2024	(feet b	bgs)	(ft NAVD88)	(1	feet bgs)   (ft NAVD88)
Proposed Loc	cation:	SWM Area		Logged By:	JB		During:				
Excavating M	ethod:	Midi Excava	ator	Contractor:	CL		At Completion:		▽	At Completion:	I <u></u> <u>\</u>
Test Method:		Visual Obse	ervation	Rig Type:	Caterp	oillar 314	24 Hours:		<u></u> _\ <b>T</b>		
SAMPLE	INFORM	IATION	DEPTH	STRATA			DESCRIPTION				REMARKS
Depth (ft.)	Number	Туре	(feet)				(Class	sificat	tion)		
			0.0								No indication of ESGWH
				TOPSOIL	<u> </u>	12" Topsoil					
			- - - -	SUBSOIL		36" Subsoil, Ro	ots				
7.5	1	Grab	5.0	GLACIAL TILL		Gray-Brown, Si	ity Sand with Gravel, Cobble	les, Bou	ulders (SM)		
			10.0			Test Pit TP-4 T	erminated upon Refusal at [	Depth c	of 8 Feet Below Gro	ound Surface.	



Test	Pit	No.:	TP-5
Page	1	of	1

Project:	Proposed	Apartment E	Building					WAII	Project No.:	GM2422090.000	
Location:	2268 - 2284 Connecticut Route 32, Montville, New London County, Connecticut Client: R.J. O'Connell & As									Associates, Inc.	
Surface Eleva	ation: ±									In Depth   Elevation	
Termination I	Depth:	10.0	feet bgs	Date Comple	ted:	7/22/2024	(1	feet bgs)	(ft NAVD88)	(	feet bgs)   (ft NAVD88)
Proposed Lo	cation:	SWM Area		Logged By:	JB		During:		<u> </u>		
Excavating M	lethod:	Midi Excava	ator	Contractor:	CL		At Completion:		I <u></u> ▽	At Completion:	I <u></u> _ <u></u> <u></u>
Test Method:		Visual Obse	ervation	Rig Type:	Caterp	oillar 314	24 Hours:		<u></u> 🔻		
SAMPLE	INFORM	IATION	DEPTH	STRATA					MATERIALS		REMARKS
Depth (ft.)	Number	Туре	(feet)				(C	lassifica	tion)		
			0.0								No indication of ESGWH
			0.0		21/4						
					<u>~11/</u>						
				TOPSOIL	N1/2	24" Topsoil					
			<del>-  </del>								
			_		N112						
					ШШ						
			_								
				SUBSOIL	ШШ	30" Subsoil, Ro	ots				
			_	00200.2	ШШ	Co Cubcon, rec					
					ШШ						
					MAL						
			5.0								
5.5	1	Grab	_								
			_	01.40141							
				GLACIAL							
				TILL		Brown to Gray-	Brown, Silty Sand with	n Gravel, Col	bbles, Boulders (SN	<b>1</b> )	
			_								
			_								
			100								
			10.0		13.141	<del>                                     </del>					
						Test Pit TP-5 T	erminated at Depth of	10 Feet Bel	ow Ground Surface		
			-								
			<del></del>								
			-								
			4								
			15.0								



Test	Pit	No.:	TP-6
Page	1	of	1

Project:	Proposed	Apartment E	Building					WAIF	Project No.:	GM2422090.000	
Location:	2268 - 228	34 Connection	cut Route 32, M	lontville, New Lon	don Co	ounty, Connect	ticut		Client:	R.J. O'Connell & A	Associates, Inc.
Surface Eleva	ition: ±	150.0	feet NAVD88	Date Started:		8/10/2024	Water	r Depth	Elevation	Cave-	In Depth   Elevation
Termination D	Depth:	9.5	feet bgs	Date Comple	ted:	8/10/2024	(fe	et bgs)	(ft NAVD88)	(	feet bgs)   (ft NAVD88)
Proposed Loc	cation:	SWM Area	· 	Logged By:	JB		During:		Ī Ā		
Excavating M	ethod:	Backhoe		Contractor:	CL		At Completion:		∇	At Completion:	I <u></u>
Test Method:		Visual Obse	ervation	Rig Type:	Caterp	illar 430	24 Hours:		I <u></u>		
SAMPLE	INFORM	IATION	DEPTH	STRATA					MATERIALS		REMARKS
Depth (ft.)	Number	Туре	(feet)				(Cla	assificat	tion)		
			0.0								
			0.0								
			_	TOPSOIL	<u> </u>	12" Topsoil					
					<u> </u>						
				SUBSOIL		6" Subsoil, Roo	ts				
				CODOCIE	144.11	C Cubbon, 1100					
			_								
											Indications of ESGWH
											@ 3 fbgs.
3.5	1	Grab	-								
			<b>50</b>								
			5.0								
				GLACIAL		Brown, Silty Sar	nd with Gravel, Cobbles	s, Boulders	(SM)		
				TILL							
			_								
					Ш						
			_								
			_								
			10.0			Test Pit TP-6 Te	erminated upon Refusal	l at Depth o	of 9.5 Feet Below 0	Ground Surface.	
			_								
			-								
			15.0								



Test	Pit	No.:	TP-7
Page	1	of	1

Project:	Proposed A	Apartment E	Building				WAII	Project No.:	GM2422090.000	
Location:	2268 - 228	4 Connection	cut Route 32, N	Nontville, New Lor	ndon Co	ounty, Connec	ticut	Client:	R.J. O'Connell &	Associates, Inc.
Surface Eleva	tion: ±	146.0	feet NAVD88	Date Started:	: -	3/10/2024	Water Depth	Elevation	Cave	In Depth   Elevation
Termination D	epth:	9.5	feet bgs	Date Comple	ted:	3/10/2024	(feet bgs)	(ft NAVD88)		feet bgs)   (ft NAVD88)
Proposed Loc	ation:	SWM Area	_	Logged By:	JB		During:			
Excavating Mo	ethod:	Backhoe	·	Contractor:	CL		At Completion:	▽	At Completion:	<u></u> <u>F</u>
Test Method:		Visual Obse	ervation	Rig Type:	Caterp	illar 430	24 Hours:	<u></u> <b>T</b>		
SAMPLE	INFORM	ATION	DEPTH	STRATA			DESCRIPTION OF	MATERIALS		REMARKS
Depth (ft.)	Number	Туре	(feet)				(Classifica	tion)		
			0.0							No indication of ESGWH
					<u> </u>					
				TOPSOIL	<u> </u>	24" Topsoil				
				1010012		24 Topoon				
					<u> </u>					
					<u> </u>					
				SUBSOIL		6" Subsoil, Roc	ots			
			🕇		1111					
			$H \rightarrow$							
3.5	1	Grab								
			1 -							
			-							
			5.0							
			⊢	GLACIAL		Brown Cilty Ca	nd with Gravel, Cobbles, Boulders	· (CM)		
				GLACIAL		Brown, Silty Sa	ind with Gravel, Cobbles, Boulders	S (SIVI)		
				TILL						
			l —							
			<u>_</u>							
			-							
			I →							
			10.0		F4 F151	Test Pit TP-7 T	erminated upon Refusal at Depth	of 9.5 Feet Below G	round Surface.	
			-							
			-							
			-							
			]							
			4							
			-							
			15.0							



Test	Pit N	No.:	TP-8
Page	1	of	1

Project:	Proposed.	Apartment E	Building		WAI Project No.: GM2422090.000						
Location:	2268 - 228	4 Connection	cut Route 32,	Montville, New Lon	idon Co	ounty, Connect	ticut	Client:	R.J. O'Connell & /	Associates, Inc.	
Surface Eleva			feet NAVD88			8/10/2024		Elevation		In Depth   Elevation	
Termination D	epth:	9.0	feet bgs	Date Comple	-	8/10/2024	(feet bgs)	(ft NAVD88)	(	feet bgs)   (ft NAVD88)	
Proposed Loc		SWM Area	•	Logged By:	-		During:	Ā			
Excavating M		Backhoe		Contractor:			At Completion:		At Completion:	I <u>E</u>	
Test Method:		Visual Obse	ervation			illar 430	24 Hours:			<del></del> =	
CAMPLE	INICODM	ATION									
SAMPLE	INFORM	ATION	DEPTH	STRATA			DESCRIPTION OF			REMARKS	
Depth (ft.)	Number	Туре	(feet)				(Classific	ation)			
			0.0							No indication of ESGWH	
					N11/2						
			_	TOPSOIL		12" Topsoil					
					<u>~11/</u>						
				SUBSOIL		6" Subsoil, Roo	ts				
			-		MAG						
			_								
4 E	1	Grab									
4.5	'	Grab	5.0	GLACIAL							
			3.0								
				TILL		Brown, Silty Sa	nd with Gravel, Cobbles, Boulde	ers (SM)			
			_								
			_								
			_								
					1111						
						Test Pit TP-8 To	erminated upon Refusal at Dept	h of 9 Feet Below Gr	ound Surface.		
			-								
			10.0								
			4								
			15.0								

LO PR DA DA BO CO FO	PROJ. NAME: Proposed Rite Aid Pharmacy Montville, Connecticut PROJECT NO.: J2075388  DATE START: August 29, 2007  DATE END: August 29, 2007  New England Boring Contracte GO. LOCATION: Glastonbury, Connecticut FOREMAN: Trent Rowe Brian Opp  SAMPLING  Poeth Blows/ Penet./				Contractors	DATE DEPTH CASING AT DURATION AFTER DRILLING 8/29/07 Not Encountered						
(33)		T	*****	T	-		Commis D			Strata		
Depth (ft)	No.	Depth (ft.)	6"	Penet./ Rec. (in)			Sample D	escription		Change Depth (ft)	Notes	
	110.	(11.)		Rec. (III)		Topsoil				0.2		
5							ne SAND, some Grave	I, trace Silt.		A B		
										7.0		
						Brown, fin	e SAND, trace Silt.					
10										10.0		
						Brown, coa	arse to fine SAND, Gr	avel, with Cobbles.	(Glacial T	ill)   11.3		
15						Auger refu	sal at 11.3', on possibl	e Boulder or Bedrock.				
20												
20												
75												
25												
$\dashv$												
$\dashv$												
$\dashv$												
_												
30												
		RN, Inc.	Notes:				Proportions Used: t Cohesive Consistency very soft soft medium stiff stiff very stiff hard		-20%), some (20-35%), Cohesionless Relatively loose loose medium dense dense very dense		IR-1	

IACCATIONS   Monthuile, Connecticut   Syryin   Safary   SS   SSA   BORNOG:   III-2	PROJ. NAME: Proposed Rite Aid Pharmacy				narmacy	HAMMER SAMPLER CASING SHEET 1 OF 1							
PROJECTION:   2007588   2007						TYPE:	Safety						
DATE STARTS:   August 29, 2007   SURE: ELS:   145° +	PR	OJEC	T NO.:	J207538	8				2" OD	4" dia.			:
BORING CO.;   New England Boring Contractors (Classobary, Connected)   STEP   CASING AT   DURATION ATTER BUILLING	DA	TE SI	ART:	August 2	29, 2007		FALL:	30"			1	2-2-2-2-2-2-	•
Second Content   Standard   Standard   Strata   Strata	DA	TE EN	vD:								SURF	EL:	148' +/-
SAMPLING   Sample Description   Sirata   Moisture Content				New Eng	gland Boring	Contractors			GROUNDWAT	ER OBSERVATIONS	<b>,</b>		
						ticut				DURATIO	N AFTER	DRILLIN	G
SAMPLING							8/29/07	Not Encountered	l				
No.   Chord   Change   Content   Change   Content   Change   Content   Change   Content   Change   Content   Change	JG	REP		***************************************		:	1						T
SS-1   G-2   3-2   3-418   SS-1   Loose, brown, fine SAND, taxe Site.   Gaze Sand Sand Sand Sand Sand Sand Sand Sand	£		SAN	1PLIN	G						Str	ata	Moisture
SS-1   G-2   3-2   3-418   SS-1   Loose, brown, fine SAND, taxe Site.   Gaze Sand Sand Sand Sand Sand Sand Sand Sand	p (t		Depth	Blows/	Penet./			Sample De	scription		Ch	ange	Content
SS-1   G-2   3-2   3-418   SS-1   Loose, brown, fine SAND, taxe Site.   Gaze Sand Sand Sand Sand Sand Sand Sand Sand	Dept	No.	(ft.)	6"	Rec. (in)			•	•			_	1
SS-2   2-4   2-3   2-4/12   SS-2   Medium desse, fine SAND, some Gravel, trace Sile.   Possible Fill)   3-5		1100	1 (10.)	<del>                                     </del>	ree: (III)	<u> </u>	Topsoil				Бер		(70)
SS-2   2-4		SS-1	0-2	2-2	24/18	SS-1:	Loose, brow	vn, fine SAND, trace S	ilt.		******		5.2
SS-2   2-4				3-3							<b>******</b>		
SS-1						1					*****		
S	_	SS-2	2-4	2-3	24/12	SS-2:	Medium der	nse, fine SAND, some	Gravel, trace Silt.	(D	*****	2.5	2.5
SS-3   S-5.6   30-1001*   7.77   SS-3:				8-18						(Possible Fill)	OXXXX	3.3	
SS-3   S-5.6   30-100/1*   7/7   SS-3:   Medium dense to dense, brown, medium to fine SAND, some Gravel, trace Sit, with Cobbles.   1.2	_					1							
SS-4   7-9   27-31   24/18   SS-4:   Very dense, brown, coarse to fine SAND, some Gravel, trace Silt, occasional Cobbles.   1.2	3			<u> </u>		+							
SS-4   7-9   27-31   24/18   SS-4:   Very dense, brown, coarse to fine SAND, some Gravel, trace Sift, occasional Cobbles   1.2		SS-3	5-5.6	30-100/1"	7/7	SS-3:	Medium der	nse to dense, brown, m	edium to fine SAND, so	me Gravel, trace Silt, with			1.3
1.7							Cobbles.						
1.7						1							
1.7   1.7		SS-4	7-9	27-31	24/18	SS-4:	Very dense,	brown, coarse to fine	SAND, some Gravel, tra	ce Silt, occasional Cobbles.			1.2
1.7   1.7				43-45									
A7-50   (Glacial Till)   11.0	_			15 15									
Auger Refusal at 11.0°, on possible Boulder or Bedrock.    Auger Refusal at 11.0°, on possible Boulder or Bedrock.    Auger Refusal at 11.0°, on possible Boulder or Bedrock.    Boulder or Bedrock.	10	SS-5	9-11	44-41	24/18	SS-5:	Similar to SS	S-4.					1.7
Auger Refusal at 11.0°, on possible Boulder or Bedrock.    13				47-50						(Glacial Till)		11.0	
15										(======================================	er-sage vier droits-site in		
20	-+						Auger Refus	sal at 11.0', on possible	Boulder or Bedrock.				
20													
20													
20	-												
Notes:	15												
Notes:													
Notes:													
Notes:													
Notes:													
Notes:													
Notes:	_												
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).   Cohesive Consistency (Blows/ft.)   Cohesionless Relative Density (Blows/ft)   very soft   0-2   very loose   0-4   soft   2-4   loose   4-10   medium stiff   4-8   medium dense   10-30   stiff   8-15   dense   30-50   very stiff   8-15   dense   30-50   very stiff   15-30   very dense   50+	20												
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).   Cohesive Consistency (Blows/ft.)   Cohesionless Relative Density (Blows/ft)   very soft   0-2   very loose   0-4   soft   2-4   loose   4-10   medium stiff   4-8   medium dense   10-30   stiff   8-15   dense   30-50   very stiff   8-15   dense   30-50   very stiff   15-30   very dense   50+													
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).   Cohesive Consistency (Blows/ft.)   Cohesionless Relative Density (Blows/ft)   very soft   0-2   very loose   0-4   soft   2-4   loose   4-10   medium stiff   4-8   medium dense   10-30   stiff   8-15   dense   30-50   very stiff   8-15   dense   30-50   very stiff   15-30   very dense   50+	$\dashv$											]	1
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).   Cohesive Consistency (Blows/ft.)   Cohesionless Relative Density (Blows/ft)   very soft   0-2   very loose   0-4   soft   2-4   loose   4-10   medium stiff   4-8   medium dense   10-30   stiff   8-15   dense   30-50   very stiff   8-15   dense   30-50   very stiff   15-30   very dense   50+	_										1 1		
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).   Cohesive Consistency (Blows/ft.)   Cohesionless Relative Density (Blows/ft)   very soft   0-2   very loose   0-4   soft   2-4   loose   4-10   medium stiff   4-8   medium dense   10-30   stiff   8-15   dense   30-50   very stiff   8-15   dense   30-50   very stiff   15-30   very dense   50+													
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).   Cohesive Consistency (Blows/ft.)   Cohesionless Relative Density (Blows/ft)   very soft   0-2   very loose   0-4   soft   2-4   loose   4-10   medium stiff   4-8   medium dense   10-30   stiff   8-15   dense   30-50   very stiff   8-15   dense   30-50   very stiff   15-30   very dense   50+													
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).   Cohesive Consistency (Blows/ft.)   Cohesionless Relative Density (Blows/ft)   very soft   0-2   very loose   0-4   soft   2-4   loose   4-10   medium stiff   4-8   medium dense   10-30   stiff   8-15   dense   30-50   very stiff   8-15   dense   30-50   very stiff   15-30   very dense   50+	$\dashv$		· ·									İ	
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).	25											İ	
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).	T												
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).	$-\dagger$												
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).	$\perp$												
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).													
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).	$\dashv$												
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).	_												
Notes:   Proportions Used: trace (1-10%), little (10-20%), some (20-35%), and (35-50%).	30				l								
Cohesive Consistency (Blows/ft.) very soft 2-4 loose 4-10 medium stiff 4-8 medium dense 10-30 stiff 8-15 dense 30-50 very dense 50+				Notes:			<u>P</u> 1	roportions Used: tra	ce (1-10%), little (10-20	0%), some (20-35%), and (3	55-50%).		
Soft   2-4   Sose   4-10							<u> C</u>	ohesive Consistency (I	Blows/ft.)	Cohesionless Relative Den	sity (Blows	<u>/ft)</u>	
EASTERN,Inc.         medium stiff         4-8         medium dense         10-30           stiff         8-15         dense         30-50           very stiff         15-30         very dense         50+			han .	Initial refusa	at 4.3' offset 5	o' to the west.	1	•		-			
EASTERN, Inc.         stiff         8-15         dense         30-50           very stiff         15-30         very dense         50+													
A TIETTECON COMPANY very stiff 15-30 very dense 50+		EASTERN, Inc.										-	
	۸7fe	rracor	1 COMPANY				ve	ery stiff	15-30	•			

PR DA DA BO CO FO	CATI OJEC TE ST TE ET RING	T NO.:  PART:  ND:  CO.:  CATION:  AN:	Montvill J207538 August 3 August 3 New Eng Glastonb Tim Car	30, 2007 30, 2007 gland Boring oury, Connec penter Kraemer	Contractors	SIZE: FALL: DATE 8/30/07  Topsoil Medium den	Safety 140 lbs. 30"  DEPTH  Not Encountered  Sample Deserting the service of the Sample in the service of the s	SURF. TION AFTER I	EL:  DRILLING  ata  inge	JB-3 <b>See Plan</b> 148.5' +/-		
5	SS-2	5-5.5	62	6/4	SS-2:				tle Silt, frequent Cobble		8.0	
10						Auger Refusa	al at 8.0', on possible E	Soulder or Bedrock.				
20												
25												
			Notes: Offset 10' wo	est. Refusal at s	2.3'.	Cc ver sor me sti	ohesive Consistency (E rry soft ft edium stiff		0%), some (20-35%), a Cohesionless Relative very loose loose medium dense dense very dense			ID 2

LO PR DA DA BO CO FO	ROJ. NAME: Proposed Rite Aid Pharmac OCATION: Montville, Connecticut ROJECT NO.: J2075388  ATE START: August 29, 2007  ATE END: August 29, 2007  ORING CO.: New England Boring Control Glastonbury, Connecticut OREMAN: Trent Rowe Brian Opp  SAMPLING  Depth Blows/ Penet./				TYI SIZ FAI  Contractors Contractors DA	E: 140 lbs.	BORE LOCA SURF	SHEET I OR I  BORING: JB-4 LOCATION: See Plan SURF. EL: 148.5' +/-  AFTER DRILLING  Strata Moisture			
(j)		<del> </del>	····	<del>,                                    </del>							
Depth (ft)		_				Sample D	escription			ange	Content
Ã	No.	(ft.)	6"	Rec. (in)	Тор	osoil			Dept	0.2	(%)
	SS-1A	0-0.9	2-5	24/20	SS-1A: Med	dium dense, brown, medium	to fine SAND, some Silt.			1.0	
	SS-1B	0.9-2	6-7		SS-1B: Med	dium dense, brown, coarse to	fine SAND, some Gravel,	, trace Silt.	<b>****</b>		
	SS-2	2-4	7-7	24/12		dium dense, brown, coarse to	o fine SAND, some Gravel		<b>****</b>		1.3
			9-21		with	n Brick.		(Fill)	) 💥	3.5	
5											
	00.2	5.67	20.41	20/14	100.2	1 1	CAND Co	074			,,
	SS-3	5-6.7	28-41	20/14	SS-3: Ver	y dense, brown, coarse to fin	e SAND, some Gravei, tra	ce Siit.			1.4
			33-100/2"							6.7	
					Coh	bles and Boulders					
					200	ores and Boulders		(Glacial Till)	1.0	0.5	
10								(Giaciai Tili)	)	9.5	
					Aug	er Refusal at 9.5', on possibl	e Boulder or Bedrock.				
15											
								•			
20											
20											
$\dashv$											
_											
25											
$\exists$											
30	Notes:			Proportions Used: +	race (1-10%), little (10-20	)%), some (20-35%) ar	nd (35-50%)				
				sal at 6.7' on bo	ılder, offset 12'	Cohesive Consistency very soft		Cohesionless Relative very loose			
		20 80 80	northwest.	30	-	soft	2-4	loose	4-10		
EA	STF	RN. Inc.				medium stiff stiff	4-8 8-15	medium dense dense	10-30 30-50		ļ
	STERN, Inc.					very stiff	15-30	very dense	50+		

DD	OJ. NA	N/E	Proposed	Rite Aid Ph	armacy HAA	MMER	SAMPLER	CASING		HEET 1	OF 1
	CATK			e, Connectic			SS	HSA	BORIN		JB-5
4: -: -: -	OJECI	[+1+1+1+1+1+1+1+1+1+1+1+1+1	J207538		SIZE		2" OD	3 1/4" ID	LOCA	TION:	See Plan
E + : + : + :	TE ST		August 3		FAL	.L: 30"	Drop Method:	Winch/Cable	]		
	TE EN		August 3						SURF.	EL:	152' +/-
	RING			gland Boring				R OBSERVATION			
		ATION:		ury, Connect			CASING AT	DURATIO	N AFTER D	RILLIN	G
	REMA	N:	Tim Car		8/30	0/07 Not Encounter	red				
JG	REP:	G 4 % .	Michael		1						
(t)		SAIV	PLIN	9					Str		
Depth (ft)		Depth	Blows/	Penet./		Sample D	escription		Cha	nge	Notes
Der	No.	(ft.)	6"	Rec. (in)				and the second s	Dept	h (ft)	
	SS-1	0-2	3-5	24/18	Tops SS-1: Med	soil lium dense, brown, medium	to fine SAND, some Silt, to	race Gravel.	************	0.5	
	33-1	0-2	3-3	24/10	55-1.	mani dense, orown, median	to line of E.D., some only a	(Subsoil)		1.5	
			9-14								
					Cobb	bles and Boulders.					
-			-		1						
5					1						
	SS-2	5-6	38-62	12/1	SS-2: Very	y dense, brown, coarse to fi	ne SAND, some Gravel, litt	le Silt, occasional Cobbles			
	55 2	- "	1 30 02		100 21	,,,	, , , , , , , , , , , , , , , , , , , ,	,			
$\vdash$											
$\vdash$			<b>-</b>								
10		10.10.1	50/57	1/0	99.9	7					
	SS-3	10-10.1	50/1"	1/0	SS-3: Simi	ilar to SS-2, except with free	quent Cobbies.				
								(01 : 1 771)		12.0	
								(Glacial Till)		12.0	
					Auge	er Refusal at 12.0', on possi	ble Boulder or Bedrock.				
					-						
15											
					5						
20			-		1						
					1						
					1						
					]						
25											
23					1						
			L								
30											
50		l	Notes:		1	Proportions Used:	trace (1-10%), little (10-2	0%), some (20-35%), and	(35-50%).		
1/3						Cohesive Consisten	cy (Blows/ft.)	Cohesionless Relative D	ensity (Blow	<u>s/ft)</u>	
	176					very soft	0-2 2-4	•	-4 -10		
						medium stiff	4-8		0-30		
E	ASTE	RN, Inc.				stiff	8-15		0-50		
		COMPANY				very stiff	15-30	very dense 5	0+	NI.	ID #

PR DA BO CC FO	PROJ. NAME: Proposed Rite Aid Pharmacy LOCATION: Montville, Connecticut PROJECT NO.: J2075388  DATE START: August 29, 2007  DATE END: August 29, 2007  BORING CO.: New England Boring Contracte CO. LOCATION: Glastonbury, Connecticut FOREMAN: Trent Rowe JGI REP: Brian Opp  SAMPLING				Contractors	HAMMER         SAMPLER         CASING         SHEET           TYPE:         Safety         SS         H S A         BORING:           SIZE:         140 lbs.         2" OD         3 1/4" ID         LOCATION:           FALL:         30"         Drop Method:         Winch/Cable           SURF: EL:           GROUNDWATER OBSERVATIONS           DATE         DEPTH         CASING AT         DURATION AFTER DRILLIN           8/29/07         Not Encountered					
		SAM	IPLIN	G			Strata				
Depth (ft)		Depth	Blows/	Penet./	1	Sample Description	Change	Content			
)ebt	No.	(ft.)	6"	Rec. (in)			Depth (ft)				
						Topsoil	0.2				
	SS-1	0-2	4-5	24/10	SS-1:	Brown, medium to fine SAND, some Silt, trace root matter. (Subsoil) Brown, medium to fine SAND, some Silt and Gravel, occasional Cobbles.	1.0	-			
			5-5		33-1.	Brown, medium to fine SAND, some sint and Graver, occasional Coopies.	2.0				
5	SS-2	2-2.3	60/4"	4/0	SS-2:	No Recovery.					
						Brown, coarse to fine SAND, Some Gravel, little Silt.					
						Cobbles and Boulders.					
10						(Glacial Till	Till) 10.5				
				•		Auger Refusal at 10.5', on possible Boulder or Bedrock.	To contract the contract to th				
15											
20											
25											
_							, i				
30			Nets			Deconstitute Florida ( /1 100/) 1541, (10 200/) (20 200/)	nd (25 509()				
		RN, Inc.	Notes: Refusal at 4.	.3'. Offset 5' to	the north.	Proportions Used: trace (1-10%), little (10-20%), some (20-35%), a  Cohesive Consistency (Blows/ft.)  very soft  very soft  2-4  medium stiff  4-8  stiff  8-15  very stiff  15-30  very dense  hard  30+		JB-6			

LO PR DA DA BO CO FO	PROJ. NAME: Proposed Rite Aid Pharmacy Montville, Connecticut J2075388  DATE START: August 29, 2007  DATE END: August 29, 2007  BORING CO: OLOCATION: Glastonbury, Connecticut Trent Rowe Brian Opp  SAMPLING  No. (ft.)  6" Rec. (in)					Topsoil Brown, fi	SIZE: 140 lbs. 2" OD 4" dia. EOCATION; S FALL: 30" Drop Method: Winch/Cable  SURF. EL: 1  DATE DEPTH CASING AT DURATION AFTER DRILLING 8/29/07 Not Encountered  Strata Change Depth (ft)							
5	SS-1	5-7	18-14	24/15	SS-1:	Dense, bro	own, medium to fine S	AND, some Gravel, litt	tle Silt, occasional Cobbl	es.	5.0			
15						Auger Ref	fusal at 9.8', on possibl	e Boulder or Bedrock.	(Glacial T		9.8			
20														
25														
	Notes:  EASTERN, Inc.  Allerracon COMPANY				Proportions Used: ti Cohesive Consistency very soft soft medium stiff stiff very stiff head		O-20%), some (20-35%), Cohesionless Relativery loose loose medium dense dense very dense			IR 9				

рD	OI NA	ME	Proposes	Rite Aid Di	narmacy	HAMME	<b>.</b>	SAMPLER	CASING		SHEET 1	OFI
	PROJ NAME: Proposed Rite Aid Pharmacy LOCATION: Montville, Connecticut PROJECT NO:: J2075388				TYPE:	Safety	SS	HSA	BORI		JB-9	
			J207538			SIZE:	140 lbs.	2" OD	3 1/4" ID	F1311111111111		See Plan
	TE ST		August 3			FALL:	30"	Drop Method:	Winch/Cable		i e e e e e e e e e e e e e e e e e e e	
P. 1 - 1 - 1 -	TE EN		August 3				180000			SURF	EL:	151.5' +/-
во	RING	CO.:	New Eng	gland Boring	Contractors			GROUNDWATI	ER OBSERVATIO			
		ATION:	Glastonb	ury, Connec	ticut	DATE	DEPTH	CASING AT	DURAT	ON AFTER	DRILLIN	G
FO	REMA	N:	Tim Car			8/30/07	Not Encountered					
JG	REP:		Michael		•							******
(		SAN	IPLIN	G						St	rata	
Depth (ft)		Depth	Blows/	Penet./	1		Sample De	scription		Ch	ange	Notes
)epí	No.	(ft.)	6"	Rec. (in)				•		1	th (ft)	
::=::		(11.)	"	Rec. (III)		Topsoil				БСР	0.5	
	SS-1A	0-1	2-7	24/16	SS-1A:	Medium d	lense, brown, medium to	fine SAND, some Silt,	trace Gravel. (Subsoil)		1.0	
	SS-1B	1-2	14-18		SS-1B:	Dense, bro	own, coarse to fine SAN	D, little Gravel and Silt,	occasional Cobbles.			
5												
	SS-2	5-5.5	62	6/2	SS-3:	Very dens	e, brown, coarse to fine	SAND and Gravel, trace	Silt, occasional Cobbles			
					1							
									(0) 11 mm		0.5	
10									(Glacial Till)		9.5	
						Auger Ref	usal at 9.5', on possible l	Boulder or Bedrock.				
					-							
15												
l												
_												
20												
											1	
_												
_												
25												
25												
_												
$\exists$												
$\dashv$												
30										1		
Notes:				Proportions Used: tra	ce (1-10%), little (10-2	0%), some (20-35%), an	d (35-50%).					
				Cohesive Consistency (		Cohesionless Relative I		<u>s/ft)</u>	1			
Offset 8' north. Refusal at 8.5'.				very soft soft	0-2 2-4	•	0-4 4-10					
					medium stiff	4-8		10-30				
							stiff	8-15		30-50		
A 716	ASTERN, Inc. Nerracon Company						very stiff	15-30	very dense	50+	NT.	ID 0

LO PR DA DA BO CO FO	ROJ. NAME: Proposed Rite Aid Pharmacy DCATION: Montville, Connecticut ROJECT NO.: J2075388 ATE START: August 29, 2007 ATE END: August 29, 2007 ORING CO.: New England Boring Contractors D. LOCATION: Glastonbury, Connecticut Trent Rowe Brian Opp  SAMPLING  Depth Blows/ Penet./ No. (ft.) 6" Rec. (in)			Contractors	HAMMEI TYPE: SIZE: FALL: DATE 8/29/07	Safety 140 lbs. 30"  DEPTH  Not Encountere  Sample De	SURI ATION AFTER  Si CI	SHEET LOF E BORING: JB-10 LOCATION: See P SURF. EL: 146.5 S  NAFTER DRILLING  Strata Change No Depth (ft)				
						Topsoil				00000	0.2	
5						Brown, coa	arse to fine SAND and	Gravel, trace Silt, with		iil)	5.0	
10						Brown, coa	arse to fine SAND, son	ne Gravel and Silt, freq	uent Cobbles.			
$\dashv$									(Glacial T	ill)	11.0	
15						Auger refus	sal at 11.0', on possible	Boulder or Bedrock.				
20												
25												
_												
4												
_												
30			Notes:			1-	Proportions Heads +-	ace (1-100/) 15+415 (10	1-20%), some (20-35%),	and (25 500/)		
		RN, Inc.				<u>!</u> : :	Cohesive Consistency very soft soft medium stiff stiff very stiff		Cohesionless Relativery loose loose medium dense dense very dense			ID 10

PROJ. NAME: Proposed Rite Aid Pharmacy LOCATION: Montville, Connecticut PROJECT NO.: J2075388  DATE START: August 30, 2007  BATE END: August 30, 2007  BORING CO.: New England Boring Contract CO. LOCATION: Glastonbury, Connecticut FOREMAN: Tim Carpenter JGI REP: Michael Kraemer  SAMPLING				ut T SI FA Contractors	SIZE:         140 lbs.         2" OD         3 1/4" ID         LOCATION:           FALL:         30"         Drop Method:         Winch/Cable    SURF: EL:							JB-11 See Plan 148.5' +/-		
Depth (ft)			Blows/	Penet./			Sa	mple Des	cription				ange	Notes
Dep	No.	(ft.)	6"	Rec. (in)								Dep	th (ft)	
	SS-1	0-2	2-8	24/14		psoil edium	dense, brown	n, medium to f	ine SAND, som	ne Silt, litt	le Gravel.		0.5	
											(Subsoil	)	1.5	
5	SS-2	5-6.5	16-37	18/8			and Boulders		AND, some Gra	avel. little	Silt, occasional Cobb	les.		
	33-2	3-0.5	64	16/6	. 33-2. V	ny den	isc, brown, c	oarse to the S.	in (D, some on	avoi, iiiio	Siit, Occusionar Coop	los.		
							-C1 7 7		oulder as D : 1	n als	(Glacial Till	)	7.5	
					At	iger Ke	etusai at 7.5',	on possible B	oulder or Bedro	ock.				
10					1									
1,5														
15														
Н														
$\vdash$														
20														
25														
$\vdash$														
30			Notes:				Proportio	ns Used: trac	e (1-10%), littl	le (10-20%	%), some (20-35%), a	nd (35-50%).		
C E	J(	RN, Inc.	Offset 10' east. Refusal at 8.0'.					Consistency (E			Cohesionless Relative very loose loose medium dense dense		<u>s/ft)</u>	
		COMPANY					very stiff		15-30		very dense	50+		

PROJ. NAME: LOCATION: PROJECT NO.; DATE START: DATE END: BORING CO.; CO. LOCATION: FOREMAN: JGI REP:  SAM			Proposed Rite Aid Pharmacy Montville, Connecticut J2075388 August 29, 2007 August 29, 2007 New England Boring Contractors Glastonbury, Connecticut Trent Rowe Brian Opp PLING Blows/ Penet./			HAMMER SAMPLER CASING TYPE: Safety SS SSA SIZE: 140 lbs. 2" OD 4" dia. FALL: 30" Drop Method: Winch/Cable  GROUNDWATER OBSERVATION DATE DEPTH CASING AT DURATIO 8/29/07 Not Encountered  Sample Description					ON AFTER DRILLING Strata		
Depth (ft)	No	Depth (ft.)	6"	Penet./			Sample D	escription			1	th (ft)	Notes
Α.	No.	(11.)	0	Rec. (in)							жжжж	n (IL)	
					Г	Dark brown	n, medium to fine SAN	ND, some Gravel, l	ittle Silt, trace Brick.	(Fill)		3.0	
5													
					L	ight brow	n, fine SAND, trace S	ilt.				7.5	
					В	Brown, me	edium to fine SAND, s	ome Gravel, trace S	Silt, frequent Cobbles.				
10													
									(0)			12.0	
$\dashv$									(GI	acial Till)		12.0	
_					A	Auger refus	sal at 12.0', on possible	e Boulder or Bedro	ock.				
15													
20													
													1
T													
1													
75													
25													
+													
1													
_													
30													
			Notes:						e (10-20%), some (20			(0)	
100							Cohesive Consistency very soft	0-2	<u>Cohesionless</u> very loose	Relative Den 0-4		s/1t)	
C							soft medium stiff	2-4 4-8	loose medium dens	4-1 se 10-			
		RN, Inc.					stiff	4-8 8-15	dense	30-			
A lerracon COMPANY							very stiff	15-30	very dense	50+	Poring	Nic	ID 12

	OJ. NA			l Rite Aid Pl e, Connectic		НАММ ТҮРЕ:	<b>ER</b> Safety	SAMPLER SS	CASING HSA/FW	C	SHEET BORING:	1 <b>OF 1</b> JB-13
F:-:-:-		T NO.;	J207538			SIZE:	140 lbs.	2" OD	3 1/4" ID / 4"		LOCATION	
	TE ST		August 3			FALL:	30"	Drop Method:	Winch/Cable			•.
	TE EN		August 3		<u> </u>	141414141414				10101010101	SURF. EL:	150' +/-
	RING	CO.: ATION:		gland Boring oury, Connec	Contractors	DATE	DEPTH	CACINC AT	DID	ATION	ETED DDILLI	
	REMA		Tim Car		licut	8/30/07		CASING AT	DUR	ATION A	AFTER DRILLIN	NG.
10-10-10-1	REP:			Kraemer		0.00.07	, 1100 21100 411101					
		SAN	PLIN	G							Strata	
Depth (ff)		Depth	Blows/	Penet./	1		Sample D	escrintion			Change	Notes
epti	No.	(ft.)	6"				Sample D	escription			-	Notes
	140.	(11.)	0	Rec. (in)		Topsoil					<b>Depth (ft)</b> 0.3	
	SS-1	0-2	4-8	24/14	SS-1:	Medium	dense, brown, medium	to fine SAND, little Gra	vel, trace Silt.			1
			11-12									
					1							
											3.5	
												1
5												
	SS-2	5-5.3	50/3"	3/0	SS-2:	Very den	se, brown, coarse to fin	e SAND, some Gravel,	little Silt, occasional Co	bbles.		
			-									
_												
$\dashv$												
10												
						0.111	15.11			i i		
						Cobbles a	and Boulders.					
15												
$\dashv$											art in	
20									(Glacial Till)	į.		
$\dashv$						D. II . D.	. D. C. 1 . CO. O	1 D 1 1				
$\dashv$						Koller Bit	t Refusal at 20.0', proba	oly on Bedrock.				
_												
$\dashv$										1		
25												
$\dashv$												
$\perp$												
20												
30			Notes:		9.0.0		Proportions Used: 11	ace (1-10%), little (10.	-20%), some (20-35%),	, and (35-	-50%).	
the.							Cohesive Consistency		Cohesionless Relativ			
			_		r bit used from 8.5'	to	very soft	0-2	very loose	0-4		
			roller bit ref	usal at 20.0'.			soft medium stiff	2-4 4-8	loose medium dense	4-10 10-30		
		RN, Inc.					stiff	8-15	dense	30-50		
۸٦ſe	macor	1 COMPANY					very stiff	15-30	very dense	50+		
		1					hard	30+			Boring No.	JB-13

### **TEST PIT LOG**

PROJECT: Proposed Rite Aid Pharmacy	JGI INSPECTOR:	SHEET 1 OF 1
LOCATION: Montville, Connecticut	Doug Yates	TEST PIT NO: JTP-1
PROJECT NO.: J2075388	WEATHER:	LOCATION: See Plan
<b>DATE:</b> December 11, 2007	Sunny, High 20° Degrees	SURFACE EL: 153' ±

B & L Construction, Inc.

EXCAVATION EQUIPMENT: GROUNDWATER OBSERVATIONS

TIME

**DEPTH** 

**NOTES** 

OPERATOR:

CONTRACTOR:

Bruce Sypher

12/11/07

**DATE** 

Not Encountered

CAPA

MAKE: Komatsu

MODEL: PL120

	1212121212121212121212121
<b>ITY:</b> 3/4 c.v.	<b>REACH:</b> 15.0'

Depth (ft.)	Stratum Change Depth (ft)		SOIL DESCRIPTION	Boulder Size/Count	Notes
		0.5	Topsoil		
2			Orange-brown, fine SAND and Silt, trace Gravel and Roots.		
			Grange brown, time brit 15 and bitt, trace Graver and Robas.		
3		3.0	(Subsoil)		
4			Brown, coarse to fine SAND, some Gravel, trace Silt, frequent	> 6"	Mottling observed
5			Cobbles and Boulders.		at 3.5'
6		6.0	(Glacial Till)		
7			Exploration Terminated at 6.0'.		
8					
9					
10					
11					
12					
13					
14					
15					
16					

NOTES:

PIT DIMENSIONS:

Length: Width: Depth: 5'

REMARKS: The stratification lines represent the approximate boundary between soil types and the transiti may be gradual. Water level readings have been made in the test pits at times under conditions stated on tl test pit logs. Fluctuations in the level of the groundwater may occur due to other factors than those prese at the time measurements were made

Proportions Used: trace (0-10%), little (10-20%), some (20-35%), and (35-50%)



PROJECT:	Proposed Rite Aid	l Pharmacy	JGI INS	PECTOR:	SHEET	1 OF 1	
LOCATION:	Montville, Connec	Montville, Connecticut		Doug Yates		JTP-2	
PROJECT NO.:	J2075388	J2075388		WEATHER:		LOCATION: See Plan	
DATE:	December 11, 200	7	Sunny, High	n 20° Degrees	SURFACE EL:	148' ±	
EXCAVATION EQUIPMI	ENT;		G	ROUNDWA	TER OBSERVATI	ONS	
CONTRACTOR:	B & L Construction	on, Inc.	DATE	TIME	DEPTH	NOTES	
OPERATOR:	Bruce Sypher		12/11/07		Not Encountered		
MAKE:	Komatsu	MODEL: PL120					
CAPACITY:	3/4 c.y.	<b>REACH:</b> 15.0'					

CAPACIT			3/4 c.y. <b>REACH:</b> 15.0'	÷1	T
Depth	Stratum Cl			Boulder	Notes
(ft.)	Depth (	ft)	SOIL DESCRIPTION	Size/Count	
		0.5	Topsoil		
1	***************************************		-		
2	<b>**********</b>		Orange-brown, medium to fine SAND, some Gravel, little Silt,		
			trace Roots and Asphalt.		
3	<b></b>				
4	<b>***********</b>				
_					
5	<b>**********</b>	<b>5</b> 0	(TV)	10	
	******************************	5.0	(Fil	1)	
6	-		Exploration Terminated at 5.0'.		
7			Exploration Terminated at 5.0.		
	1				
8					
	1				
9					
	1				
10					
	1				
11	]				
12	]				
13	1				
1.4					
14	-				
15					
13	1				
16					
10				1.1	

NOTES: PIT DIMENSIONS: Depth: Width: Length:

5'

Proportions Used: trace (0-10%), little (10-20%), some (20-35%), and (35-50%

REMARKS: The stratification lines represent the approximate boundary between soil types and the transiti may be gradual. Water level readings have been made in the test pits at times under conditions stated on tl test pit logs. Fluctuations in the level of the groundwater may occur due to other factors than those press at the time measurements were made



PROJECT:	Proposed Rite Aid Pharmacy	JGI INS	PECTOR:	SHEET	1 OF 1	
LOCATION:	Montville, Connecticut	*:*::::::::::::::::::::::::::::::::::::	Doug Yates		TEST PIT NO: JTP-3	
PROJECT NO.:	J2075388	WEA	WEATHER:		LOCATION: See Plan	
DATE:	December 11, 2007	Sunny, High 20° Degrees		SURFACE EL:	145' ±	
EXCAVATION EQUIPM	ENT:	G	ROUNDWA	TER OBSERVATI	ONS	
CONTRACTOR:	B & L Construction, Inc.	DATE	TIME	DEPTH	NOTES	
OPERATOR:	Bruce Sypher	12/11/07		Not Encountered		
MAKE:	Komatsu <b>MODEL:</b>	PL120				
CAPACITY:	3/4 c v <b>REACH</b> :	15.0'				

Depth (ft.)	Stratum Change Depth (ft)		SOIL DESCRIPTION	Boulder Size/Count	Notes
1		0.7	Topsoil		
2			Orange-brown, medium to fine SAND, some Gravel, little Silt, trace Roots.		
3		3.0	(Subsoil)		
4			Brown, coarse to fine SAND, some Gravel, trace Silt, frequent Cobbles and Boulders.	>6"	
5		5.0	(Glacial Till)		
6			Exploration Terminated at 5.0'.		
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

NOTES:

PIT DIMENSIONS:

**Length: Width: Depth:** 14' 5' 5'

REMARKS: The stratification lines represent the approximate boundary between soil types and the transiti may be gradual. Water level readings have been made in the test pits at times under conditions stated on tl test pit logs. Fluctuations in the level of the groundwater may occur due to other factors than those presulat the time measurements were made

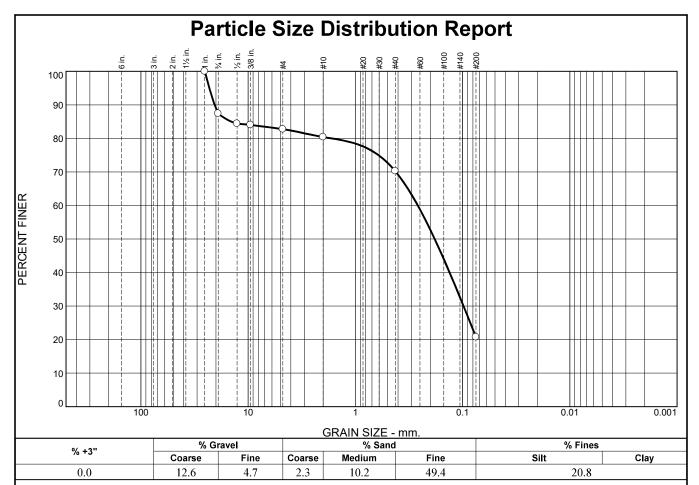
Proportions Used: trace (0-10%), little (10-20%), some (20-35%), and (35-50%)

EASTERN, Inc.

Allerracon COMPANY



# **APPENDIX B Laboratory Test Results**



SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
1"	100.0		
3/4"	87.4		
1/2"	84.4		
3/8"	84.0		
#4	82.7		
#10	80.4		
#40	70.2		
#200	20.8		
*			

<b>Material Description</b> Silty Sand with Gravel					
PL= NP	Atterberg Limits LL= NV	PI= NV			
D <sub>90</sub> = 20.5856 D <sub>50</sub> = 0.1823 D <sub>10</sub> =	Coefficients D <sub>85</sub> = 14.3912 D <sub>30</sub> = 0.0982 C <sub>u</sub> =	D <sub>60</sub> = 0.2618 D <sub>15</sub> = C <sub>c</sub> =			
USCS= SM	Classification AASHTC	)= A-2-4(0)			
Remarks Moisture Content: 11.6%					

\* (no specification provided)

**Location:** B-5 **Sample Number:** S-2

**Depth:** 2' - 4'

Client: R.J. O'Connell and Associates, Inc.

Project: Proposed Apartment Building

2268-2284 CT Route 32, Montville, New London County, CT

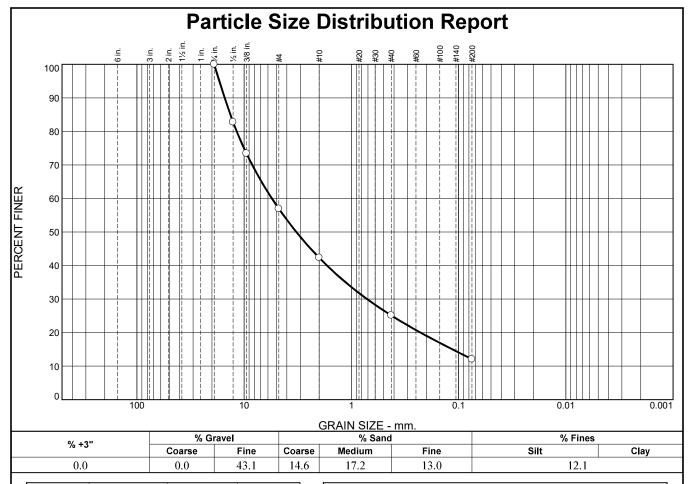
**Project No:** GM2422090.000

Figure S-

**Date:** 7/30/24



Tested By: MM Checked By: RWM



SIEVE	PERCENT	SPEC.*	PASS?
SIZE	FINER	PERCENT	(X=NO)
3/4"	100.0		
1/2"	82.8		
3/8"	73.4		
#4	56.9		
#10	42.3		
#40	25.1		
#200	12.1		

Material Description					
Silty Sand with Gra	avel				
PL= NP	Atterberg Limits LL= NV	PI= NV			
	Coefficients				
$D_{90} = 15.2013$	$D_{85}$ = 13.4589 $D_{30}$ = 0.7150	D <sub>60</sub> = 5.5190 D <sub>15</sub> = 0.1143			
D <sub>90</sub> = 15.2013 D <sub>50</sub> = 3.2631 D <sub>10</sub> =	$C_{11}^{30}$ = 0.7130	C <sub>C</sub> = 0.1143			
. •	Classification	•			
USCS= SM	AASHTO	= A-1-a			
	Remarks				
Moisture Content: 3.2%					

(no specification provided)

Location: B-8 Sample Number: S-3

**Depth:** 5' - 7'

Client: R.J. O'Connell and Associates, Inc.
Project: Proposed Apartment Building

2268-2284 CT Route 32, Montville, New London County, CT

**Project No:** GM2422090.000

Figure S-2

**Date:** 7/30/24

WHITESTONE

Tested By: MM Checked By: RWM



# APPENDIX C Supplemental Information (USCS, Terms & Symbols)



## UNIFIED SOIL CLASSIFICATION SYSTEM

SOIL CLASSIFICATION CHART

ı	MAJOR DIVISIONS		LETTER SYMBOL	TYPICAL DESCRIPTIONS
	GRAVEL AND	CLEAN GRAVELS	GW	WELL-GRADED GRAVELS, GRAVEL-SAND MIXTURES, LITTLE OR NO FINES
	GRAVELLY SOILS	(LITTLE OR NO FINES)	GP	POORLY-GRADED GRAVELS, GRAVEL- SAND MIXTURES, LITTLE OR NO FINES
COARSE GRAINED SOILS	MORE THAN 50% OF COARSE FRACTION	GRAVELS WITH FINES	GM	SILTY GRAVELS, GRAVEL-SAND-SILT MIXTURES
COILO	RETAINED ON NO. 4 SIEVE	(APPRECIABLE AMOUNT OF FINES)	GC	CLAYEY GRAVELS, GRAVEL-SAND-CLAY MIXTURES
	SAND AND SANDY	CLEAN SAND (LITTLE OR NO	SW	WELL-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
	SOILS	FINES)	SP	POORLY-GRADED SANDS, GRAVELLY SANDS, LITTLE OR NO FINES
MORE THAN	MORE THAN 50% OF COARSE FRACTION PASSING NO. 4 SIEVE	SANDS WITH FINES (APPRECIABLE AMOUNT OF FINES)	SM	SILTY SANDS, SAND-SILT MIXTURES
50% OF MATERIAL IS LARGER THAN NO. 200 SIEVE SIZE			SC	CLAYEY SANDS, SAND-CLAY MIXTURES
FINE	SILTS AND CLAYS	LIQUID LIMITS LESS THAN 50	ML	INORGANIC SILTS AND VERY FINE SANDS, ROCK FLOUR, SILTY OR CLAYEY FINE SANDS OR CLAYEY SILTS WITH SLIGHT PLASTICITY
GRAINED SOILS			CL	INORGANIC CLAYS OF LOW TO MEDIUM PLASTICITY, GRAVELLY CLAYS, SANDY CLAYS, SILTY CLAYS, LEAN CLAYS
			OL	ORGANIC SILTS AND ORGANIC SILTY CLAYS OF LOW PLASTICITY
MORE THAN 50% OF	SILTS AND CLAYS		МН	INORGANIC SILTS, MICACEOUS OR DIATOMACEOUS FINE SAND OR SILTY SOILS
MATERIAL IS <u>SMALLER</u> THAN NO. 200 SIEVE		LIQUID LIMITS <u>GREATER</u> THAN 50	СН	INORGANIC CLAYS OF HIGH PLASTICITY, FAT CLAYS
SIZE			ОН	ORGANIC CLAYS OF MEDIUM TO HIGH PLASTICITY, ORGANIC SILTS
HIGHLY ORGANIC SOILS			PT	PEAT, HUMUS, SWAMP SOILS WITH HIGH ORGANIC CONTENTS

NOTE: DUAL SYMBOLS ARE USED TO INDICATE BORDERLINE SOIL CLASSIFICATIONS FOR SAMPLES WITH 5% TO 12% FINES

GRADATION*	COMPACTNESS* Sand and/or Gravel	CONSISTENCY* Clay and/or Silt
% FINER BY WEIGHT	RELATIVE DENSITY	RANGE OF SHEARING STRENGTH IN POUNDS PER SQUARE FOOT
TRACE 1% TO 10% LITTLE 10% TO 20% SOME 20% TO 35% AND 35% TO 50%	LOOSE	VERY SOFT LESS THAN 250 SOFT

L:\Geotechnical Forms and References\Reports\USCSTRMSSYM CT.docx

Office Locations:

**NEW JERSEY** PENNSYLVANIA MASSACHUSETTS CONNECTICUT FLORIDA New Hampshire **NEW YORK** 

<sup>\*</sup> VALUES ARE FROM LABORATORY OR FIELD TEST DATA, WHERE APPLICABLE. WHEN NO TESTING WAS PERFORMED, VALUES ARE ESTIMATED.



#### GEOTECHNICAL TERMS AND SYMBOLS

#### SAMPLE IDENTIFICATION

The Unified Soil Classification System is used to identify the soil unless otherwise noted.

#### SOIL PROPERTY SYMBOLS

N: Standard Penetration Value: Blows per ft. of a 140 lb. hammer falling 30" on a 2" O.D. split-spoon.

Qu: Unconfined compressive strength, TSF.

Qp: Penetrometer value, unconfined compressive strength, TSF.

Mc: Moisture content, %.LL: Liquid limit, %.PI: Plasticity index, %.δd: Natural dry density, PCF.

▼: Apparent groundwater level at time noted after completion of boring.

#### DRILLING AND SAMPLING SYMBOLS

NE: Not Encountered (Groundwater was not encountered).

SS: Split-Spoon - 1 3/8" I.D., 2" O.D., except where noted.

ST: Shelby Tube - 3" O.D., except where noted.

AU: Auger Sample.
OB: Diamond Bit.
CB: Carbide Bit
WS: Washed Sample.

#### RELATIVE DENSITY AND CONSISTENCY CLASSIFICATION

#### Term (Non-Cohesive Soils)

#### **Standard Penetration Resistance**

Very Loose	0-4
Loose	4-10
Medium Dense	10-30
Dense	30-50
Very Dense	Over 50

Term (Cohesive Soils)	Qu (TSF)
Very Soft	0 - 0.25
Soft	0.25 - 0.50
Firm (Medium)	0.50 - 1.00
Stiff	1.00 - 2.00
Very Stiff	2.00 - 4.00
Hard	4.00 +

#### PARTICLE SIZE

**NEW JERSEY** 

Boulders	8 in.+	Coarse Sand	5mm-0.6mm	Silt	0.074mm-0.005mm
Cobbles	8 in3 in.	Medium Sand	0.6mm-0.2mm	Clay	-0.005mm
Gravel	3 in5mm	Fine Sand	0.2mm-0.074mm	•	

L:\Geotechnical Forms and References\Reports\USCSTRMSSYM CT.docx

Office Locations:

# APPENDIX F Addendum to Geotechnical Evaluation By JGI Eastern, Inc.



Rocky Hill, CT 06067 Phone (860) 721-1900

> Fax (860) 721-1939 www.terracon.com

December 20, 2007

Mr. Brian McCarthy Vice President R.J. O'Connell & Associates, Inc. 80 Montvale Avenue, Suite 201

Advance Copy by Email

Re:

Addendum to Geotechnical Evaluation

Proposed Rite Aid Pharmacy

Route 32

Stoneham, MA 02180

Montville, Connecticut

JGI Project No. J2075388

Dear Mr. McCarthy:

JGI EASTERN, Inc., A Terracon Company (JGI), is pleased to provide this addendum to our September 25, 2007 Geotechnical Evaluation for the above-referenced project. The purpose of our additional work was to conduct subsurface explorations to evaluate the soil conditions and percolation rates as they relate to the proposed subsurface stormwater infiltration systems. This letter should be read in conjunction with the September Geotechnical Evaluation and is subject to the Limitations included in that report.

#### SITE AND PROJECT DESCRIPTION

The approximately 3.4-acre project site is located west of Route 32, north of Gallivan's Lane, and immediately northeast of Meadow Lane in the Town of Montville, Connecticut. The site is developed with both commercial and residential structures and associated paved and landscaped areas. The topography of the site generally slopes up to the north from approximately Elevation (El) 144 to 165 feet.

The project consists of demolishing the existing structures and constructing an approximately 14,700 square foot (sf) single-story Rite Aid Pharmacy building within the south central portion of the site. An additional restaurant/retail outparcel with an overall footprint of about 6,100 sf is planned to the north of the pharmacy. Parking areas are planned to the east, south, and west of both buildings. Finished floor elevations of the buildings were not provided prior to the issuance of this report. However, based on site topography, we have assumed that cuts and fills on the order of about 10 feet will be required to develop the site.

Mr. Brian McCarthy Page 2 December 20, 2007

Three subsurface stormwater infiltration systems will be installed as part of the site development. An approximately 900 cubic-foot (cf) system will be located in the northwest corner of the site, west of the proposed outparcel building. Two systems will be located south and east of the proposed pharmacy building with approximate capacities of 2,700 cf and 2,200 cf, respectively.

#### ADDITIONAL SUBSURFACE EXPLORATIONS AND CONDITIONS

JGI monitored the excavation of three test pits (JTP-1, JTP-2, and JTP-3) on December 11, 2007, using a Komatsu PL120 excavator, owned and operated by B & L Construction, Inc. of Old Saybrook, Connecticut. Pursuant to your requests, the test pits were advanced within the locations of the proposed infiltration systems. The test pits were advanced to depths ranging between 5 and 6 feet below the existing grade. Bedrock was not encountered in any of the test pits.

The approximate exploration locations are shown on the attached Subsurface Exploration Location Plan. The exploration elevations were interpolated from contours shown on the RJ O'Connell and Associates, Inc. "Grading and Drainage Plan", dated September 28, 2007. The exploration logs are attached.

The subsurface profile at the location of the three test pits generally consists of topsoil over subsoil, underlain by glacial till. However, fill was encountered in JTP-2. Topsoil (about 6 to 8 inches) was encountered in all of the test pits. The topsoil generally consists of dark brown, fine sand and silt, trace gravel with root matter. Subsoil, which was encountered below the topsoil in all but JTP-1 and JTP-3, extends to a depth of approximately 3 feet. The subsoil generally consists of brown, medium to fine sand, little to and silt, trace to some gravel, trace roots. Fill was encountered below the topsoil to a depth of at least 5 feet in JTP-2. The fill generally consists of orange-brown, medium to fine sand, some gravel, little silt, trace roots and asphalt. Glacial till, which was encountered below the subsoil in JTP-1 and JTP-3, generally consists of brown, coarse to fine sand, some gravel, trace silt, frequent cobble and boulders.

Groundwater was not encountered in the test pits. However, soil mottling was observed in the side walls of JTP-1 at an approximate depth of 3.5 feet below the existing grade. Therefore the high groundwater elevation may be approximately at Elevation 149.5 feet.

#### **Percolation Testing**

Percolation testing was completed within each test pit, in general accordance with the requirements in the Connecticut Public Health Code, revised January 1, 2007. The percolation test holes were approximately 12 inches in diameter and ranged in depth from about 20 to 22 inches. The percolation test results range between 0.9 and 1.2 minutes per inch and are shown on the attached Subsurface Exploration Location Plan.

This addendum letter has been prepared for the exclusive use of R.J. O'Connell & Associates, Inc., in accordance with generally accepted engineering practices. No other warranty, expressed or implied, is made.

Mr. Brian McCarthy Page 3 December 20, 2007

If you have questions, please contact us. It was a pleasure working with you on this project and we look forward to continuing our work as the project progresses.

Robert W. Olah, P.E.

Geotechnical Engineer

Very truly yours,

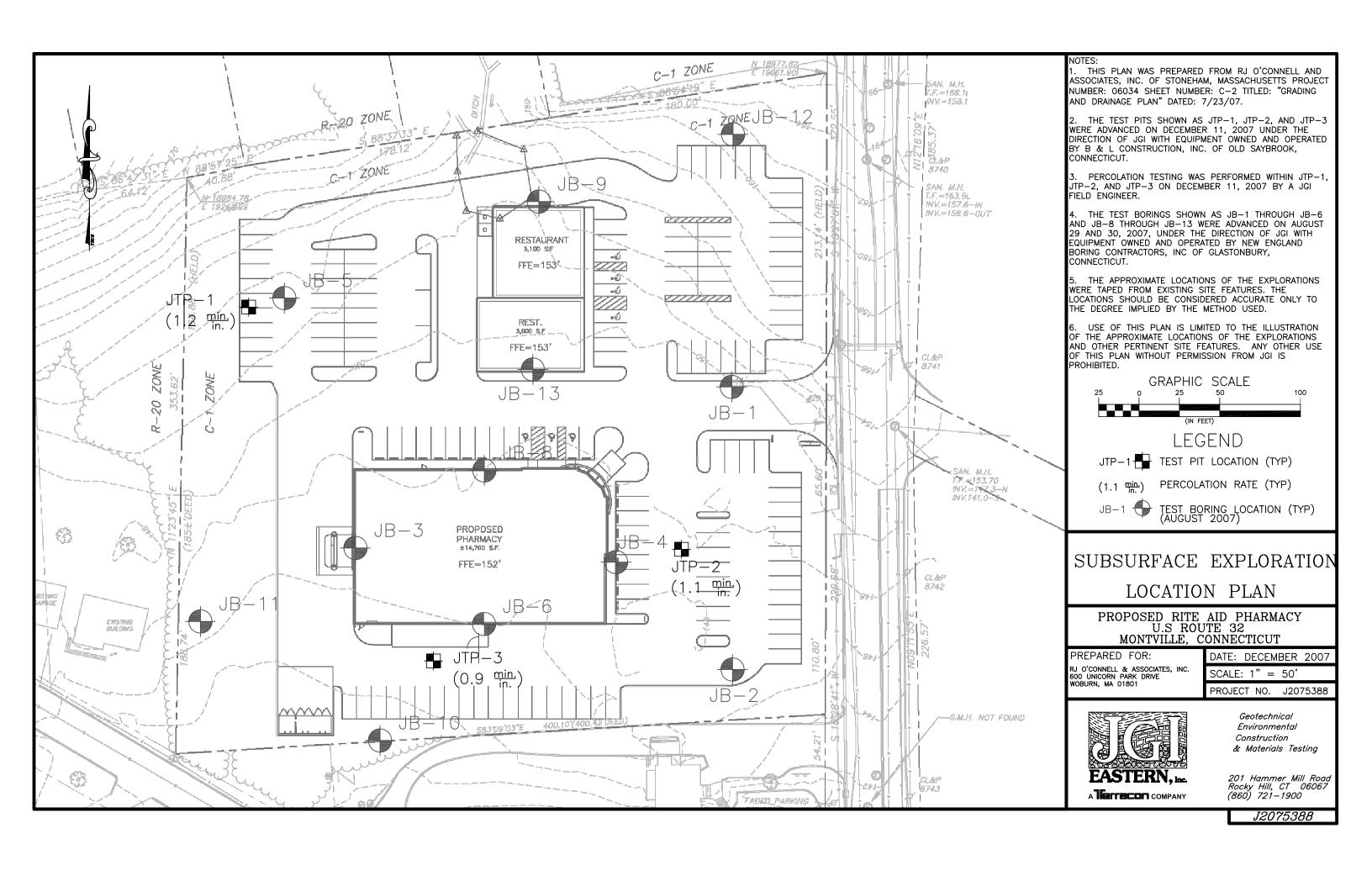
JGI EASTERN, Inc. A Terracon Company

Brian D. Opp, P.E. Geotechnical Engineer

/ekc/J2075388

Attachments: Subsurface Exploration Location Plan

Test Pit Logs, JTP-1, JTP-2, JTP-3



PROJECT: Proposed Rite Aid Pharmacy	JGI INSPECTOR:	SHEET 1 OF 1
LOCATION: Montville, Connecticut	Doug Yates	TEST PIT NO: JTP-1
PROJECT NO.: J2075388	WEATHER:	LOCATION: See Plan
DATE: December 11, 2007	Sunny, High 20° Degrees	SURFACE EL: 153' ±

B & L Construction, Inc.

EXCAVATION EQUIPMENT: GROUNDWATER OBSERVATIONS

TIME

**DEPTH** 

**NOTES** 

OPERATOR:

CONTRACTOR:

Bruce Sypher

12/11/07

**DATE** 

Not Encountered

CAPA

MAKE: Komatsu

MODEL: PL120

	10
ITÝ: 3/4 c.v.	REACH: 15.0'

Depth (ft.)	Stratum Change Depth (ft)		SOIL DESCRIPTION	Boulder Size/Count	Notes
		0.5	Topsoil		
2			Orange-brown, fine SAND and Silt, trace Gravel and Roots.		
			Grange brown, time brit 15 and bitt, trace Graver and Robas.		
3		3.0	(Subsoil)		
4			Brown, coarse to fine SAND, some Gravel, trace Silt, frequent	> 6"	Mottling observed
5			Cobbles and Boulders.		at 3.5'
6		6.0	(Glacial Till)		
7			Exploration Terminated at 6.0'.		
8					
9					
10					
11					
12					
13					
14					
15					
16					

NOTES:

PIT DIMENSIONS:

Length: Width: Depth: 5'

REMARKS: The stratification lines represent the approximate boundary between soil types and the transiti may be gradual. Water level readings have been made in the test pits at times under conditions stated on tl test pit logs. Fluctuations in the level of the groundwater may occur due to other factors than those prese at the time measurements were made

Proportions Used: trace (0-10%), little (10-20%), some (20-35%), and (35-50%)



PROJECT:	Proposed Rite Aid	l Pharmacy	JGI INS	PECTOR:	SHEET	1 OF 1
LOCATION:	Montville, Connec	eticut	Doug	Yates	TEST PIT NO:	JTP-2
PROJECT NO.:	J2075388		WEA	THER:	LOCATION:	See Plan
DATE:	December 11, 200	7	Sunny, High	n 20° Degrees	SURFACE EL:	148' ±
EXCAVATION EQUIPMI	ENT;		G	ROUNDWA	TER OBSERVATI	ONS
CONTRACTOR:	B & L Construction	on, Inc.	DATE	TIME	DEPTH	NOTES
OPERATOR:	Bruce Sypher		12/11/07		Not Encountered	
MAKE:	Komatsu	MODEL: PL120				
CAPACITY:	3/4 c.y.	<b>REACH:</b> 15.0'				

CAPACIT	<del></del>		3/4 c.y. <b>REACH:</b> 15.0'	::1	
Depth				Boulder	Notes
(ft.)	Depth	(ft)	SOIL DESCRIPTION	Size/Count	
		0.5	Topsoil		
1					
2			Orange-brown, medium to fine SAND, some Gravel, little Silt,		
			trace Roots and Asphalt.		
3					
	<b>***********</b>				
4	<b>***********</b>				
5	₩₩₩₩	5.0	(Fill		
6	************************	3.0	(1.11)	.)	
	1		Exploration Terminated at 5.0'.		
7			—		
	1				
8					
9	1				
10	-				
11					
11	1				
12					
12	1				
13					
	1				
14	]				
	]				
15	]				
16			•		

NOTES: PIT DIMENSIONS: Depth: Width: Length:

5'

Proportions Used: trace (0-10%), little (10-20%), some (20-35%), and (35-50%

REMARKS: The stratification lines represent the approximate boundary between soil types and the transiti may be gradual. Water level readings have been made in the test pits at times under conditions stated on tl test pit logs. Fluctuations in the level of the groundwater may occur due to other factors than those press at the time measurements were made



PROJECT:	Proposed Rite Aid Pha	armacy	JGI INSI	PECTOR:	SHEET	1 OF 1
LOCATION:	Montville, Connecticu	ıt	Doug	yates	TEST PIT NO:	JTP-3
PROJECT NO.:	J2075388		WEA	THER:	LOCATION:	See Plan
DATE:	December 11, 2007	S			145' ±	
EXCAVATION EQUIPMI	ENT:		G	ROUNDWAT	ER OBSERVATIO	ONS
CONTRACTOR:	B & L Construction, I	nc.	DATE	TIME	DEPTH	NOTES
OPERATOR:	Bruce Sypher	1	2/11/07		Not Encountered	
MAKE:		MODEL: PL120				
CAPACITY:	3/4 c.v.	REACH: 15.0'				

Depth (ft.)	Stratum Change Depth (ft)		SOIL DESCRIPTION	Boulder Size/Count	Notes
1		0.7	Topsoil		
2			Orange-brown, medium to fine SAND, some Gravel, little Silt, trace Roots.		
3		3.0	(Subsoil)		
4			Brown, coarse to fine SAND, some Gravel, trace Silt, frequent Cobbles and Boulders.	>6"	
5		5.0	(Glacial Till)		
6			Exploration Terminated at 5.0'.		
7					
8					
9					
10					
11					
12					
13					
14					
15					
16					

NOTES:

PIT DIMENSIONS:

**Length: Width: Depth:** 14' 5' 5'

REMARKS: The stratification lines represent the approximate boundary between soil types and the transiti may be gradual. Water level readings have been made in the test pits at times under conditions stated on tl test pit logs. Fluctuations in the level of the groundwater may occur due to other factors than those presulat the time measurements were made

Proportions Used: trace (0-10%), little (10-20%), some (20-35%), and (35-50%)

