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Drawing Information
Project No:
B1806527.12

B1806527-00

Drawn By: BJB

Date Drawn: 7/30/19

Checked By: JJV

Drawing No:

5/13/21

Project Paul Lot 1, Block 2,

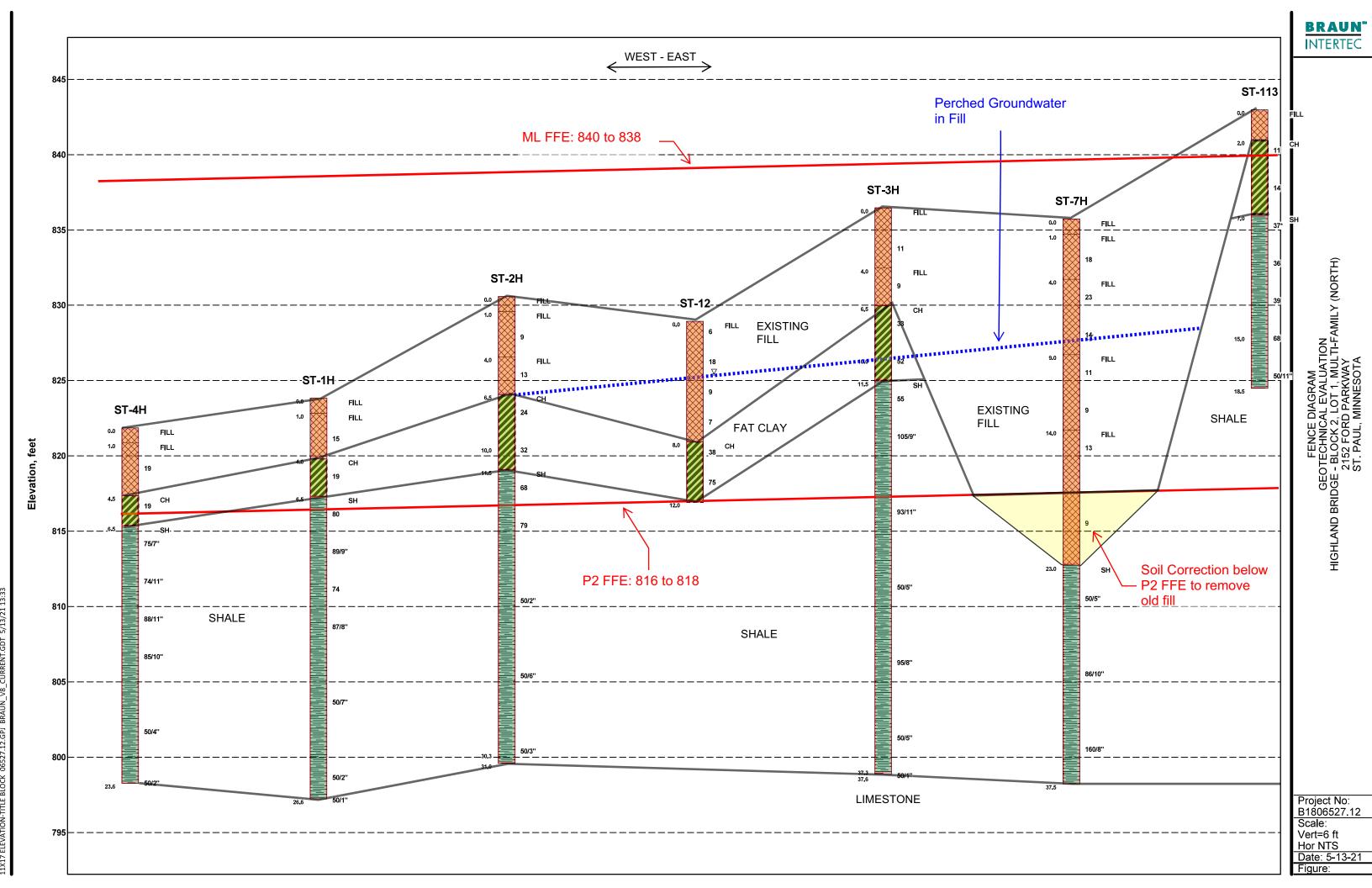
Last Modified:

Highland Bridge, Multi-Family (North)

2152 Ford Parkway

Saint Paul, Minnesota

Remedial Activities Completed





			6527.12		BORING:			ST-4H	
Highla 2152 F		rkway	ATION c 2, Lot 1, Multi-Family (North)		LOCATIC sketch.	N: N:	14607	75, E: 548929.	See attached
DRILLE	R: J. 1	Γatro	METHOD: 3 1/4" HSA, Autoha	ammer	DATE:	4/2	9/21	SCALE:	1" = 4'
Elev. feet 821.9	Depth feet 0.0	ASTM Symbol	Description of Mate (ASTM D2488 or D2			BPF	WL	Tests o	r Notes
820.9	1.0	FILL	FILL: Silty Sand, fine- to coarse-grai dark brown, moist.	ined, with Gr	ravel,				
-		FILL	FILL: Silty Sand, fine- to medium-grawith Fat Clay, trace Gravel, brown an	ained, interm nd gray, mois	nixed st. –	19			
817.4	4.5	CH ///	FAT CLAY, brown, gray and olive, m	noist verv sti	ff				
815.4	6.5		(Weathered Shale Be	drock)	_	19		qp=3 tsf	
_		SH	SHALE, occasional Limestone fragment			J			
_			(Decorah Shale Bed	rock)	_	75/7"			
						74/11			
_									
_						\ \\88/1\1'	\setminus		
_						XOO, I.			
_					_	X85/10 ¹			
_					- -				
						×50/4"			
_					_				
798.3	23.6		END OF BORING.		_	[⊠] 50/2"			
_			Auger met refusal at the 23.6-foot de	epth.					
_			Water not observed while drilling.	· - ···	_				
_			Boring immediately backfilled with be	entonite grou	ıt. –				
-					_				
_									
31806527.1	12		Braun Interted	Corporation					ST-4H page 1



		ct B180		2			BORING:		,	ST-1H	
Highla 2152 F		rkway		., Multi-F	amily (Nor	th)	LOCATIC sketch.	N: N:	146203	, E: 548922. S	See attached
DRILLE	R: J. 1	Γatro	ME	ETHOD:	3 1/4" HSA, A	utohammer	DATE:	4/2	9/21	SCALE:	1" = 4'
Elev. feet 823.8	Depth feet 0.0	ASTM Symbol			escription of N STM D2488 o			BPF	WL	Tests or	Notes
822.8	1.0	FILL	FILL: Si brown, n		ne- to coarse	-grained, with C	Gravel,				
_ _ 	4.0	FILL	FILL: Sa moist.	andy Fat C		el, black and b		15			
 	6.5	CH		(We	athered Shale	,	_	19			
_		SH	SHALE, hard.	occasiona	l Limestone fi	ragments, gray	, dry,				
			ilaiu.	(De	ecorah Shale	Bedrock)		80 89/9"			
								X87/8" X50/7"			
	26.6		Auger m Water no	ot observed	at the 26.6-food		- - - -	[×] 50/2" 50/1"			
B1806527.1			immedia	tely after w	ithdrawal of a backfilled wit	nuger. h bentonite grotertec Corporation	_				T-1H page 1



ſ		-	ct B180		.2			В	ORING:			ST-2H	
		nd Brid ord Par	•	_	I, Multi-F	amily (N	orth)		OCATIC ketch.	N: N:	1462	09, E: 549103.	See attached
	DRILLEI	₹: J.1	Γatro	М	IETHOD:	3 1/4" HSA	A, Autohammer	. [ATE:	4/29	9/21	SCALE:	1" = 4'
viations)	Elev. feet 830.6	Depth feet 0.0	ASTM Symbol		(AS	STM D248	of Materials 8 or D2487)			BPF	WL	Tests	or Notes
Descriptive Terminology sheet for explanation of abbreviations)	829.6 _ _	1.0	FILL	FILL: F		(Topso	e roots, dark t oil Fill) iightly organic			9			
ogy sheet for exp	826.6 - 824.1	6.5	FILL	black, m	noist.	•	Gravel, gray,			13			
priptive Terminold	-		CH	FAT CL hard.			olive, moist, v nale Bedrock)	-	0 _	24			
(See Desc	 819.1	11.5			nestone fra					32			
LOG OF BORING-DRAFT N:\GINT\PROJECTS\AX PROJECTS\2018\06527.12.GPJ BRAUN_V8_CURRENT.GDT 5/13/21 13:20				hard.			e fragments, ale Bedrock)	gray, dr		687950/2"		depth of 22 1/ immediately af auger.	erved while erved to cave-in
OF BORING-DR,	799.6	31.0			f Limestone F BORING.		red in sample	er at 31 fe	 eet.	×50/3"		with bentonite	grout.
	B1806527.1	ว		רואס טו	DOMING.		n Intertec Corpor	ration					ST-2H page 1 of 1



ſ	Braur		ct B180	6527	BORING			9	T-12		
			AL EVALU		-		1/61		58 E: 54915	5 070 Soo	
	Projec	t Paul			attached	sketch.	1401	109.63	00 E. 04910	5.979. See	
ons)				oulevard S							
viatio		ul, Minr			<u> </u>				+		
bbre	DRILLE		Miller	METHOD: 3 1/4" HSA, Autohammer	DATE:	7/1	9/18		SCALE:	1" = 4'	
ofa	Elev. feet	Depth feet		Description of Materials		BPF	WL	МС	Tooto	or Notes	
ation	828.9	0.0	Symbol	(Soil-ASTM D2488 or D2487, Rock-USACE EM111	0-1-2908)		**-	%	16515	OI NOTES	
plan			FILL	FILL: Poorly Graded Sand, fine- to medium-gra	ained,	M 6					
or ex	_			trace Gravel, brown, moist to wet.	-	₩ 0					
eet f	_				-	1					
ly sh	_				-	_∬ 18	$ \nabla$				
oloc	_				-	П	-				
ermi					_	9					
ve T	_				-	П					
cripti	_				_	7					
See Descriptive Terminology sheet for explanation of abbreviations)	820.9	8.0				A					
(See			СН	FAT CLAY, trace Gravel, gray, moist, hard. (Weathered Shale Bedrock)] M 38		15	 LL=53, Pl=:	25 PI=28	
	_			(Weathered Onale Dedrock)	-	A 30		10	LL-00, 1 1-2	20,11-20	
						┧					
	_				-	75					
	816.9	12.0		END OF BORING.		-					
	_			Water observed at 3 1/2 feet with 6 feet of hollo	w-stem -	-					
10	_			auger in the ground.	- w-sterri	-					
_CURRENT.GDT 5/13/21 13:35				Water not observed to cave-in depth of 2 feet immediately after withdrawal of auger.							
5/13	_			Boring then backfilled.	_						
T.GDT											
IRREN											
	_				-						
BRAUN_V8						11					
J BR	_				-	1					
527.GF	_				-	\parallel					
8\06	_				-	-					
.s\201	_				-	\parallel					
OJECT						41					
AX PR	_				-	1					
ECTS\	_				_						
\PROJ	_				_						
BORING N:\GINT\PROJECTS\AX PROJECTS\2018\06527.GPJ					_						
IG N:	_				_	1					
30RIN						1					
P	-				-	\exists					
901	D1006E27			Proup Intertoe Corporation						T 12 page 1 of 1	



	-		6527.12		BORING:		,	ST-3H	
Highla 2152 F		rkway	ATION 2 2, Lot 1, Multi-Family (North)		LOCATIC sketch.	N: N:	146210	, E: 549268. S	See attached
DRILLE	:R: J. 1	Γatro	METHOD: 3 1/4" HSA, Autoha	mmer	DATE:	4/2	9/21	SCALE:	1" = 4'
Elev. feet 836.5	Depth feet 0.0	ASTM Symbol	Description of Materi (ASTM D2488 or D24	187)		BPF	WL	Tests or	Notes
See Descriptive Terminology sheet for explanation of abbreviations (see Pescriptive Terminology sheet for explanation of abbreviations) and the see that the second sheet for explanation of abbreviations (see Pescriptive 1.5) and the second sheet for explanation of abbreviations (see Pescriptive 1.5) and the second sheet for explanation of abbreviations (see Pescriptive 1.5) and the second sheet for explanation of abbreviations (see Pescriptive 1.5) and the second sheet for explanation of abbreviations (see Pescriptive 1.5) and the second sheet for explanation of abbreviations (see Pescriptive 1.5) and the second sheet for explanation of abbreviations (see Pescriptive 1.5) and the second sheet for explanation of abbreviation (see Pescriptive 1.5) and the second sheet for explanation (see Pescripti	4.0	FILL	FILL: Silty Sand, fine- to medium-grain Gravel, non- to slightly organic, black,	ned, trace moist.	to with	11			
20.0 Sheet for ———————————————————————————————————	6.5	FILL	FILL: Silty Sand, fine- to medium-grai with Clay inclusions, brown and gray,	moist.	Gravel, — –	9			
scriptive Terminolc		CH	FAT CLAY, brown, gray and olive, mo (Weathered Shale Bed	oist, hard. rock)	- - -	33			
9 825.0	11.5		With Limestone fragments at 10 feet.			52			
LOG OF BORING-DRAFT N:\GINT\PROJECTS\AX PROJECTS\2018\06527.12.GPJ BRAUN_V8_CURRENT.GDT 5/13/21 13:20			SHALE, gray, moist to 12 1/2 feet the (Decorah Shale Bedro	ock)	- - - -	93/11 ¹ ×50/5"			



	n Proie	ct B180	6527.12	BORING:		ST_	3H (cont.)	
GEOTI Highla 2152 I	ECHNICA	AL EVALU ge - Block kway					0, E: 549268. S	
DRILLE	R: J. 1	atro	METHOD: 3 1/4" HSA, Autohammer	9/21	SCALE:	1" = 4'		
Subject Elev. feet 804.5	Depth feet 32.0	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)		BPF	WL	Tests or I	Notes
See Descriptive Terminology sheet for explanation of abbreviations)	37.6		SHALE, gray, moist to 12 1/2 feet then dry, hard (Decorah Shale Bedrock) <i>(continued)</i>	_	×50/5"			
- 790.9 	37.0	=	Piece of Limestone at 37.6 feet. END OF BORING.		50/1"			
orimin —			Auger met refusal at the 37.6-foot depth.	_				
ive Te			Water not observed while drilling.					
LOG OF BORING-DRAFT N:\GINT\PROJECTS\AX PROJECTS\2018\06527.12.GPJ BRAUN_V8_CURRENT.GDT 5/13/21 13:20 (See Descrip			Boring immediately backfilled with bentonite ground and the second secon	ut				



	Braur			6527.11	BORING:			ST-7H	
	GEOTE Highla 2152 F	CHNICA	AL EVALU ge - Block kway				146100	0, E: 549315. Se	ee attached
	DRILLE	R: J. 1	Tatro	METHOD: 3 1/4" HSA, Autohammer	DATE:	4/30	0/21	SCALE:	1" = 4'
riations)	Elev. feet 835.7	Depth feet 0.0	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)		BPF	WL	Tests or N	lotes
bbrev	834.7	1.0	FILL	FILL: Clayey Sand, with Gravel, black, moist. (Topsoil Fill)					
explanation of a	- - 831.7	4.0	FILL	FILL: Silty Sand, fine- to medium-grained, with 0 with Lean Clay inclusions, non- to slightly organic brown, moist.	c, dark	18			
(See Descriptive Terminology sheet for explanation of abbreviations)	 _		FILL	FILL: Silty Sand, fine- to medium-grained, intern with Fat Clay, with Gravel, brown, wet.		23	$ $ ∇		
•	826.7 	9.0	FILL	FILL: Poorly Graded Sand, fine- to medium-graitrace to with Gravel, brown, wet.	ined,	11 9			
18\06527.11.GPJ BRAUN_V8_CURRENT.GDT 5/13/21 13:10		14.0	FILL	FILL: Silty Sand, fine- to medium-grained, trace with Fat Clay layers at 15 feet, blown and gray, i	Gravel, wet —	13			
LOG OF BORING-DRAFT N:\GINT\PROJECTS\AX PROJECTS\2018\06527.11.GPJ	812.7 - - - - - - - - - -	23.0	SH IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	SHALE, occasional Limestone fragments, gray, hard. (Decorah Shale Bedrock)		∑50/5" ∑86/10		57	-7H page 1 of 2



ſ	Braur		ct B180	6527.11	BORING:		Sī	Г-7H (cont.)		
	Highla 2152 F		kway	ATION c 2, Lot 2, Condo (South)	LOCATIC sketch.	00, E: 549315. See attached				
	DRILLE	R: J. T	atro	METHOD: 3 1/4" HSA, Autohammer	DATE:	4/30	0/21	SCALE: 1" = 4'		
/iations)	Elev. feet 803.7	Depth feet 32.0	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)		BPF	WL	Tests or Notes		
%\2018\06527.11.GPJ BRAUN_V8_CURRENT.GDT 5/13/21 13:10 (See Descriptive Terminology sheet for explanation of abbreviations)	feet	feet			- - - - - et -	BPF (160/8)		No recovery.		
OF BORING-DRAFT N:\GINT\PROJECTS\AX PROJECTS\2018\05527.11	-				- - - - -					
901	1806527 1	1		Braun Intertec Cornoration				ST-7H page 2 of		



		ect B180					BORING:			Sī	Г-113	
Projec	t Paul - ississip _l	AL EVALU Infrastru pi River B innesota	cture				LOCATIC attached			84.53	34 E: 549417.	588. See
DRILLE	R: B. I	Kammermeie	r	METHOD:	3 1/4" HSA, Au	utohammer	DATE:	8/2	2/19		SCALE:	1" = 4'
Elev. feet 843.0	Depth feet 0.0	Symbol	(Sc		escription of Ma or D2487, Rock-	aterials -USACE EM1110	-1-2908)	BPF	WL	MC %	Tests o	r Notes
tor explar - 241.0	2.0	FILL	dark	brown, moist.		n-grained, with (_					
See Describtive Jets 1 See Describtive Jets 2	7.0	CH	FAT and	FAT CLAY, trace Gravel and Silty Sand lenses, and gray, moist, stiff. (Weathered Shale Bedrock)				11		29	q _p =2 1/4 tsf	
- - -	7.0	SH	SHA	LE, gray, dry t (Dι	- 	37*		22	*No recovery	/		
- 824.5	18.5		With	Limestone fra	agments at 15	feet.		68		20		
	10.5		END	OF BORING			_					
BKAUN_VS			Wate	er not observe	d while drilling.							
LOG OF BOKING NIJGIN I/FKOJECI SJAZ PKOJECI SJAZI SKOJEK ISJAZI SKOJECI SJAZI SKOJECI SVOJE SKOJECI SVOJECI SVOJ			Borir	ng immediately	y backfilled with	n bentonite grou	ut					