Geotechnical Report

Yonkers Public Schools St. Denis Community School

121 McLean Avenue Yonkers, New York

February 5, 2021

Prepared for:

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INTRODUCTION

This project consists of the design and construction of a new Yonkers Public Schools academic facility on the site of the previous St. Denis School, rectory and convent, within portions of the city block bounded by Radford Street, McLean Avenue, Lawrence Street, and Van Cortlandt Park Avenue (Block 6), and the northeast portion of the block bounded by Radford Street, Van Cortlandt Park Avenue, Lawrence Street and Western Ave. (Block 15), in the City of Yonkers, Westchester County, New York. A new Academic Building will be built in the southcentral/southeast portion of Block 6. This 4-sty, L-shaped building will replace the existing 2.5-sty to 4-sty St. Denis School building, will extend ± 200 ft. east-west along Lawrence Street and 120 ft. along McLean Avenue (north-south), and will cover $\pm 17,000$ SF. A basement is planned beneath the southeast quadrant of the building. A standalone ± 150 LF x ± 3 ft. tall retaining wall will replace existing retaining walls along the north side of the Academic Building site which provide grade separation for the higher school property.

A new gymnasium/auditorium Community Building will be built in the northwest quadrant of Block 6. This 2-sty, rectangular building will replace the existing 2.5-sty St. Denis rectory building, and cover an area ± 90 ft. x ± 100 ft., or $\pm 9,000$ SF. A basement is planned beneath the western half of the building.

A new Breezeway will connect the above two (2) buildings at the ground floor level.

At Block 15, a playground is proposed in the 40 ft. x 80 ft. northeast corner, and an underground stormwater management facility with parking lot will be constructed in the \pm 50 ft. x \pm 115 ft. adjoining area to the south. An existing Convent/chapel will be demolished prior to construction.

The site of the proposed school currently contains the old church buildings, grass and asphalt parking lots. Existing grades are generally uniform, with grades varying from El. ±82 in the southeast of Block 6 to El. 81 across the majority of the proposed Academic Building footprint, to El. 78.5 in the northwest corner of Block 6 at the proposed Community Building. The grades at Block 15 are also generally uniform, with the southern end of the site at El. ±80 and grades dropping to El. ±77.5 at the northeast corner. The new Academic Building will be constructed with the ground floor at El. 81.2, and the new Community Building will be constructed at El 78.8. The Breezeway will be ramped between these two (2) elevations.

This report presents the findings of a subsurface investigation prepared and conducted by others specifically for this project, as well as recommendations for foundation design and construction of the proposed new structures.

GEOLOGY

Based on our review of topographic maps and published geologic data for this area of Yonkers, including the *Surficial Geologic Map of New York - Lower Hudson Sheet*, 1989, by Caldwell, Connally, et. al., this site is expected to be underlain by glacial till consisting of a mixture of grain sizes ranging from clay and silt, to sand, cobbles and boulders. Underlying bedrock is expected to be relatively shallow and consist of Fordham gneiss, based on the *(Bedrock) Geologic Map of New York - Lower Hudson Sheet*, 1970, by Rickard, Isachsen, and Fisher.

SUBSURFACE INVESTIGATION

Soiltesting, Inc. of Oxford, CT performed 32 borings, four (4) test pits, and three (3) field permeability tests between December 4, 2020 and January 8, 2021 to identify the subsurface conditions present beneath the project sites. Borings B-1 through B-29 (minus B-1, B-7 and B-11) were performed for consideration of the new buildings, while borings C-1 through C-3 and D-1 through D-3 were performed in support of subsurface drainage design. Test Pits were numbered A-1 through A-4 and were performed alongside the existing school building, rectory, convent, and St. Denis Catholic Church, respectively.

In the structural borings, soil samples were attempted generally continuously from the ground surface to a depth of 12 ft., then at 5 ft. intervals to the completion of each boring, which generally was 27 ft. Borings B-8 and B-26 were continued to depths of 62 ft. and 67 ft. respectively. All borings except B-26, were drilled using a nominal 4-¼ in. hollow stem auger to advance and maintain the hole. Boring B-26 was drilled using 3 in. diameter casing with a roller-bit and water/drilling mud. Sampling was performed using a 2 in. O.D. split spoon sampler driven by a 140 lb. safety hammer with a 30 in. drop and the number of blows for each 6 in. increment was recorded, in accordance with procedures outlined in ASTM D1586, Standard Test Method for Standard Penetration Test (SPT) and Split-Barrel Sampling of Soils. Soil samples were classified by an experienced geologist from Soiltesting, Inc., in general agreement with D.M. Burmister's "Suggested Test Methods for Identification of Soils" (ASTM, 1958).

In the stormwater design borings, the "C" borings were drilled using a 4 in. diameter casing with a rollerbit and water to clean out each hole and no soil sampling was not performed. Auger cuttings were used to classify the soils. The "D" borings were drilled using a 2-½ in. hollow stem auger and sampling was performed at 5 ft. intervals beginning at or just below the ground surface.

Groundwater was recorded at each boring when it was first encountered since most of the borings were performed without the introduction of water.

Three (3) in situ permeability tests were performed at borings C-1 through C-3 inside a 4 in. I.D. steel casing installed ±8 ft. deep. C-1 was located in the open space immediately north of the proposed Academic Building, while C-2 and C-3 were located on Block 15. After installing the casing to the test depth, it was cleaned out of soil, and water added to the top of casing to allow the ground to soak for 13 days at C-1 and 1 day at C-2 and C-3. On January 5, 2021 a measurement was made of the drop in water level over the presoak period, then down-the-hole permeability tests were run by successively adding water to the casing and measuring the water drop vs. time, in general accordance with ASTM D6391 - Standard Test Method for Field Measurement of Hydraulic Conductivity Using Borehole Infiltration. This was continued until uniform readings were obtained.

A Boring Location Plan, boring logs, test pit logs are presented in the Appendix. The boring logs were amended by Skylands Engineering to include the approximate elevations and groundwater elevations at each boring.

SUBSURFACE CONDITIONS

The subsurface conditions encountered beneath the site are generally consistent with the published geologic literature. In the area of the proposed Academic Building, granular fill consisting of fine,

medium to fine, and coarse to fine sand, with varying minor amounts of coarse to fine and fine gravel, asphalt, brick, and concrete was encountered in most borings to depths ranging from ± 4 ft. to ± 8 ft. Beneath this fill, native, medium dense brown, mostly fine sand with minor amounts of fine gravel are present to a depth of ± 12 ft. Standard penetration test (SPT) N-values ranged from 6 blows per foot (bpf) to 36 bpf, with N_{ave}= ± 18 . Beneath a depth of ± 12 ft. and continuing to an estimated depth of ± 23 ft., a very loose to loose, mostly fine sand layer, approx. 5 ft. to 10 ft. thick, is present. N-values in this layer ranged from 3 bpf to 9 bpf, with N_{ave}= ± 5 bpf. Below ± 23 ft. most borings encountered loose to barely-medium dense fine sand, with just three (3) of fifteen (15) borings encountering medium dense to dense sands. Most N-values in this layer ranged from 3 bpf to 12 bpf, with N_{ave}= ± 8 bpf. The one (1) deeper boring here, B-26, encountered dense and very dense, medium to fine sand below a depth of ± 5 ft. and to the completion of the boring at 62 ft., with N-values ≥ 44 bpf and N_{ave}=52 bpf.

Soils beneath the proposed Community Building were very similar in composition and relative densities (SPT N-values). The surficial, granular fill was somewhat thinner, being encountered only to a depth of 4 ft. in half of the borings. Beneath this fill, a similar pattern of approx. 8 ft. to 10 ft. of medium dense sand, underlain by 5 ft. to 10+ ft. of loose sand, underlain by barely-medium dense sand was encountered to the bottom of the borings. Average N-values here were slightly higher than those recorded beneath the Academic Building. SPT N-values ranged from 3 bpf to 9 bpf with N_{ave}=±6 bpf in the upper fill, ranged from 10 bpf to 31 bpf with N_{ave}=±17 bpf in the medium dense sand layer between the depths of ±4 ft. and ±13 ft., ranged from 4 bpf to 10 bpf with N_{ave}=±7 bpf in the lower loose sand layer from ±13 ft. to ±22 ft. to ±27 ft., and ranged from 10 bpf to 29 bpf with N_{ave}=±15 bpf in the lower medium dense sand layer.

At the Block 15 site, borings D-2 and D-3 encountered similar conditions as described above. Loose, granular fill was encountered in boring D-3 to a depth of 4 ft., then a ±5 ft. thick layer of medium dense sand was present to a depth of ±9 ft., and finally loose sands were present to the bottom of both borings at 27 ft. SPT N-values averaged 5 bpf in the upper 4 ft., N_{ave} =±20 bpf at the 5 ft. samples, and N_{ave} =±7 below 10 ft. and continuing to a depth of 27 ft.

Bedrock was not encountered in any boring and no estimation of its depth can be inferred from the boring logs.

Groundwater was encountered across all three (3) construction sites at depths of 10 ft. to 12 ft. (El. \pm 71.7 to El. \pm 67.3). Within Block 6, the groundwater surface appears to be tilted slightly downward to the northwest, while in Block 15 the groundwater surface also appears to dip to the north.

The permeability tests performed in proposed courtyard of the Academic Building site and at the Block 15 site were each located at a depth of 8 ft. Initial readings following the overnight (and longer) soak period indicated no water was present in the casing at the start of the permeability tests. During testing, the water level inside the casing dropped 52 in. to 300 in. per hour, for calculated permeability rates of 4 in./hr. to 21 in./hr. (see Field Permeability Test Results in the Appendix).

Complete records of the findings of the subsurface investigation are shown on the borings, test pit, and permeability test logs in the Appendix.

DESIGN RECOMMENDATIONS

Based on our review of the findings of this subsurface investigation program, it is recommended that conventional spread footings are suitable for support of the proposed Academic Building, Community Building, and retaining wall immediately north of the Academic Building. The recommended footing/frost depth for Yonkers is 40 in. below final exterior grade therefore perimeter footings should be constructed at or below this depth to prevent frost heave damage. The following sections present our recommendations for each of the separate areas of work on this project.

ACADEMIC BUILDING

The proposed finish floor of the Academic Building is El. 81.2. Assuming an 8 ft. ceiling height and 2 ft. beam and slab depths in the partial basement, we estimate the partial basement finish floor will be at El. \pm 71.2, or \pm 6 in. below the highest recorded groundwater elevation. The soils present beneath the partial basement are expected to consist of loose fine sands. In order to provide suitable support and limit post construction settlements to acceptable tolerances, it is recommended that 24 in. of soil be over excavated from the bottom of footings, the subgrade be thoroughly compacted, then recycled concrete aggregate (RCA), crushed stone, or structural fill be placed and compacted in the excavations back up to the bottom of footing elevation. The excavations should also be widened 12 in. in all directions. Following this remediation, an allowable bearing capacity of 2 tons per square foot (tsf) is recommended for design. A coefficient of base sliding of 0.45 is recommended based on the in situ soils and anticipated structural fill properties. Minimum footing widths of 30 in. for wall footings and 36 in. for column footings are recommended to limit settlements.

Beyond the limits of the partial basement, it is assumed footings will be founded at minimum depth for frost protection, or at approximately El. 76.5. At this elevation, the footings will be underlain mostly by native, medium dense sands, which are suitable for support, but also loose fills. The fill soils are expected to be encountered west of the basement, and at the north-center corner of the new building. The native soils present at the bottom of footing excavations should be compacted thoroughly and until no further settlement is visible. Where fill is present at the bottom of footing excavation, this material should be removed completely, the bottom of the excavation thoroughly compacted, then compacted structural fill placed back up to the bottom of footings. Similar to above, such over excavations should also be widened 12 in. in all directions. Following this remediation, an allowable bearing capacity of 2 tsf and a coefficient of base sliding of 0.45 are recommended for design. Minimum footing widths of 30 in. for wall footings and 36 in. for column footings are recommended to limit settlements.

The following in situ soil properties are recommended for design of retaining wall portions of this building:

Moist unit weight of retained soil, Angle of internal friction,	$\gamma_t = 120 \text{ pcf}$ $\phi = 32^\circ$
Lateral earth pressure coefficients:	,
Active,	K _a = 0.31
Passive,	$K_{p} = 3.25$
At-rest,	$K_o = 0.47$ (basement walls)
Coeff. of friction (sliding),	$tan \delta = 0.45$ (CIP concrete on compacted subgrade)

Following the above recommendations, it is estimated that maximum post construction foundation settlement will be less than 1 in., with no more than ½ in. differential settlement between adjacent columns. These values are within generally accepted tolerance limits for this type of structure/use. Settlement will be elastic (instantaneous), with no long-term consolidation settlement occurring.

The new floor slabs may be constructed as slabs-on-grade following removal of the surficial asphalt and and topsoil, removal of any deleterious material that may be present in the fill, proof rolling and compaction of the subgrade, placement of any required fill, then placement of capillary break material. The subgrade should be compacted using a 10 T vibratory roller away from building walls and a double-drum, walk-behind vibratory roller (ex. Rammax trench compactor) adjacent to the walls in order to provide uniform support beneath the slab. A minimum of two (2) passes should be made with the compactor on all areas of subgrade, and until no further settlement is visible. A modulus of subgrade reaction equal to 150 pci is recommended for design of these slabs.

The need for waterproofing is not anticipated in areas outside the partial basement since groundwater is expected to be ± 10 ft. below the first floor elevation. Beneath the partial basement however, since the basement slab will be partially below the groundwater elevation, it is recommended to either waterproof the underside of the slab and walls, and/or install underslab drainage pipe in a bed of crushed stone or recycled concrete aggregate (RCA) and connect this piping to sump pumps in order to prevent water seepage into the basement. The elevator pit should be designed as a bathtub, assuming a pit depth of ± 5 ft. We recommend using a groundwater elevation of El. 72.5 for waterproofing and buoyancy design.

In accordance with the provisions of Section 1613.3.2 of the New York 2015 Building Code, and ASCE 7-10/16 Chapter 20, a seismic site class of D, stiff soil, is recommended for design of the Academic Building, based on the average conditions encountered to a depth of 62 ft., then assumed similar conditions continuing to a depth of 100 ft. Note this is a somewhat conservative assumption since bedrock may be shallower than 100 ft. Based on the project location, in conjunction with the above site class, the following seismic parameters follow from the Code and ASCE 7-16:

$S_s = 0.296$	$S_1 = 0.061$
$F_a = 1.563$	$F_v = 2.4$
S _{MS} = 0.463	S _{M1} = 0.147
$S_{DS} = 0.309$	$S_{D1} = 0.098$

Seismic Design Category Based on Short Period Response Accelerations = B* Seismic Design Category Based on 1-sec Period Response Accelerations = B* * based on assumed Risk Category III

There is no evidence of past slope instability and none is expected under static or seismic loading.

Based on a screening of N-values vs. depth, we believe the fine sands present at a depth of ±13 ft. to 28 ft. may have potential to liquefy, although their effect may be limited due to their discontinuity and limited depth. A rigorous analysis is recommended to determine the actual factors of safety against liquefaction of these soils.

COMMUNITY BUILDING

The proposed finish floor of the Community Building is El. 78.8. Assuming an 8 ft. ceiling height and 3.5 ft. beam and slab depths in the partial basement, we estimate the partial basement finish floor will be at El. ±67.3, or 1 ft. to 2 ft. below the groundwater elevations recorded here. Similar to the findings and recommendations for the Academic Building, the soils present beneath this partial basement are also expected to consist of loose fine sands. Therefore, in order to provide suitable support and limit post construction settlements to acceptable tolerances, it is recommended that 24 in. of soil be over excavated from the bottom of footings, the subgrade be thoroughly compacted, then RCA, crushed stone, or structural fill be placed and compacted in the excavations back up to the bottom of footing elevation. The excavations should also be widened 12 in. in all directions. Similar to above, following this remediation, an allowable bearing capacity of 2 tsf and a coefficient of base sliding of 0.45 is recommended for design. Minimum footing widths of 30 in. for wall footings and 36 in. for column footings are also recommended here to limit settlements.

Beyond the limits of the partial basement, it is assumed footings will be founded at minimum depth for frost protection, or at approximately El. 75.5. At this elevation, the footings are expected to be underlain mostly by medium dense, native sands, which are suitable for support. Limited quantities of loose granular fill are also expected in the northeast corner of the building, near where boring B-8 was performed. The native soils present at the bottom of footing excavations should be compacted thoroughly and until no further settlement is visible. Where fill is present at the bottom of footing excavation thoroughly compacted, then compacted structural fill placed back up to the bottom of footing elevation. It is expected that between 6 in. and 12 in. of fill will need to be removed from below some footings. Based on the limited depth of over excavation required, over excavations here should be widened 6 in. in all directions. Following this remediation, an allowable bearing capacity of 2 tsf and a coefficient of base sliding of 0.45 are recommended for design. Minimum footing widths of 30 in. for wall footings and 36 in. for column footings are recommended to limit settlements.

The in situ soil properties recommended above for the Academic Building are also recommended for design purposes of the Community Building. They are repeated here for clarity:

Moist unit weight of retained soil,	$\gamma_{\rm t}$ = 120 pcf
Angle of internal friction,	$\phi = 32^{\circ}$
Lateral earth pressure coefficients:	
Active,	K _a = 0.31
Passive,	K _p = 3.25
At-rest,	$K_o = 0.47$ (basement walls)
Coeff. of friction (sliding),	tan δ = 0.45 (CIP concrete on compacted subgrade)

Following the above recommendations, maximum post construction foundation settlements are expected to be less than ¾ in., with no more than ½ in. differential settlement between adjacent columns. These values are within generally accepted tolerance limits for this type of structure/use. Settlement will be elastic (instantaneous), with no long-term consolidation settlement occurring.

The new floor slabs may be constructed as slabs-on-grade following removal of the topsoil and excess soil, removal of any deleterious material that may be present in the fill, proof rolling and compaction of the subgrade, then placement of capillary break material. The subgrade should be compacted using a

10 T vibratory roller away from building walls and a double-drum, walk-behind vibratory roller (ex. Rammax trench compactor) adjacent to the walls in order to provide uniform support beneath the slab. A minimum of two (2) passes should be made with the compactor on all areas of subgrade, and until no further settlement is visible. A modulus of subgrade reaction equal to 150 pci is recommended for design of these slabs.

The need for waterproofing is not anticipated in areas outside the partial basement since groundwater is expected to be ± 10 ft. below the first floor elevation. Beneath the partial basement however, since the basement slab will be below the groundwater elevation by 1 ft. to 2 ft., it is recommended to either raise the building to be above groundwater, or waterproof the underside of the slab and walls and construct the basement as a bathtub. The elevator pit should be designed as a bathtub, assuming a pit depth of ± 5 ft. We recommend a design groundwater elevation of El. 72 for waterproofing and buoyancy design.

Similar to above, based on the average conditions encountered to a depth of 67 ft., then assumed similar conditions continuing to a depth of 100 ft., a seismic site class of D, stiff soil, is recommended for design of the Community Building. The seismic parameters and derived seismic design categories shown above also apply to this building, based on an assumed Risk Category III.

Similar to above, there is no evidence of past slope instability and none is expected under static or seismic loading.

A screening of N-values vs. depth indicates the fine sands present at depths of ±13 ft. to ±23 ft. may have potential to liquefy, although their effect may be limited due to their discontinuity and limited depth. A rigorous analysis is recommended to determine the actual factors of safety against liquefaction of these soils.

BREEZEWAY

The Breezeway will connect the Academic Building to the Community Building and will be fully enclosed. Spread footings founded at frost depth are the recommended foundation choice since the underlying soils are expected to consist mostly of medium dense, native sands, which are suitable for support. Limited quantities of loose granular fill may be encountered in the southern portion, near where boring B-14 was performed. The native soils present at the bottom of footing excavations should be compacted thoroughly and until no further settlement is visible. Where fill is present at the bottom of footing excavation, this material should be removed completely, the bottom of the excavation thoroughly compacted, then compacted structural fill placed back up to the bottom of footing elevation. It is expected that between 12 in. and 24 in. of fill may need to be removed from below some footings. Based on the light loads, over excavations here should be widened 6 in. in all directions. Following this remediation, an allowable bearing capacity of 2 tsf and a coefficient of base sliding of 0.45 are recommended for design. Minimum footing widths of 20 in. for wall footings and 30 in. for column footings are recommended to limit settlements.

RETAINING WALL

In order to support the school property from the lower ground to the north, a ± 150 LF x 3 ft. tall (exposed height) retaining wall is proposed for replacement of existing walls of similar length and height. Given the low height of this wall, it is recommended to construct this wall as a cast-in-place

concrete wall with the footing founded at frost depth. Based on existing grades, the footing is expected to be set at El. ±74. Beneath this elevation the underlying soils are expected to consist mostly of loose to medium dense granular fills, especially in the center and east portions of the wall, and medium dense native sands in the western portion. Any fill material encountered should be removed to a maximum depth of 12 in., then the bottom of the excavation compacted thoroughly, and compacted structural fill placed back up to the bottom of footing elevation. Following this an allowable bearing capacity of 2 tsf is recommended for design. The following in situ soil properties are also recommended for design of this retaining wall:

Moist unit weight of retained soil, Angle of internal friction,	$\gamma_t = 115 \text{ pcf}$ $\phi = 32^\circ$
0	ψ 32
Lateral earth pressure coefficients:	
Active,	K _a = 0.31
Passive,	K _p = 3.25
At-rest,	K _o = 0.47
Coeff. of friction (sliding), ta	$\delta = 0.45$ (CIP concrete on compacted granular soils)
ta	an $\delta = 0.30$ (Precast masonry on compacted granular soils)

CONSTRUCTION RECOMMENDATIONS

Footings should not be constructed on frozen or wet subgrade materials. All frozen or saturated subgrade soil should be removed and replaced with compacted structural fill, or clean crushed stone, as required.

All loosened soil present at the bottoms of footing excavations should be compacted using a jumping jack, or vibratory trench compactor such as a double-drum, pad foot roller (ex. Rammax). Such compaction should continue until all visible settlement is complete.

Care shall be taken during compaction and construction of new footings adjacent to existing structures. A pre-construction condition assessment of all adjacent structures is highly recommended so that new movements may be detected, and corrective actions may be taken, as early as possible. If any cracks exist prior to the start of construction, crack gages should be installed and monitored through the time of foundation construction.

Organic soils were not encountered in the borings other than the surficial topsoil; however, if organic soils are encountered they should be removed completely from beneath the limits of work and replaced with compacted structural fill. Organic soils should not be used as site or structural backfill, but should be removed offsite.

Cobbles and boulders were not encountered in the borings and are therefore not expected to be encountered within the depths of excavation. Any cobbles or boulders encountered during construction should be removed so that no part protrudes into the bottom or sides of foundation or utility excavations.

Dewatering will be required during basement construction since groundwater was measured at or slightly higher than the planned basement elevations. Given the size and expected duration of each excavation, a construction dewatering consultant or specialty contractor should be engaged by the design team to assess the possible volumes of water that will need to be removed. Since cohesive soils

were not encountered in any of the borings to a depth of 60+ ft., some minor lowering of the groundwater table may be tolerable by the surrounding buildings. However, large-scale groundwater lowering will be difficult to achieve given the relatively flat groundwater surface and the anticipated moderately-high permeability rates of the in situ sands. It may be more economical to work smaller sections of basement or footings at a time, and to use RCA or crushed stone, in lieu of structural fill, so that footing excavations remain open for the shortest amount of time.

Structural fill material should consist of predominately well-graded, coarse to fine sand and/or gravel with a maximum 10% non-plastic fines (material passing a No. 200 sieve) and be free of organics and other deleterious materials. Soil with up to 20% fines may be used above 3 ft. higher than the groundwater level. Aggregate size should be limited to no bigger than 3 in. in the largest dimension. Based on the findings of this subsurface investigation, it is estimated that >½ of the in situ materials may be suitable for reuse as structural fill. Representative samples of any structural fill materials, whether on-site or imported, should be tested for gradation and moisture-density relationship prior to use to confirm its suitability.

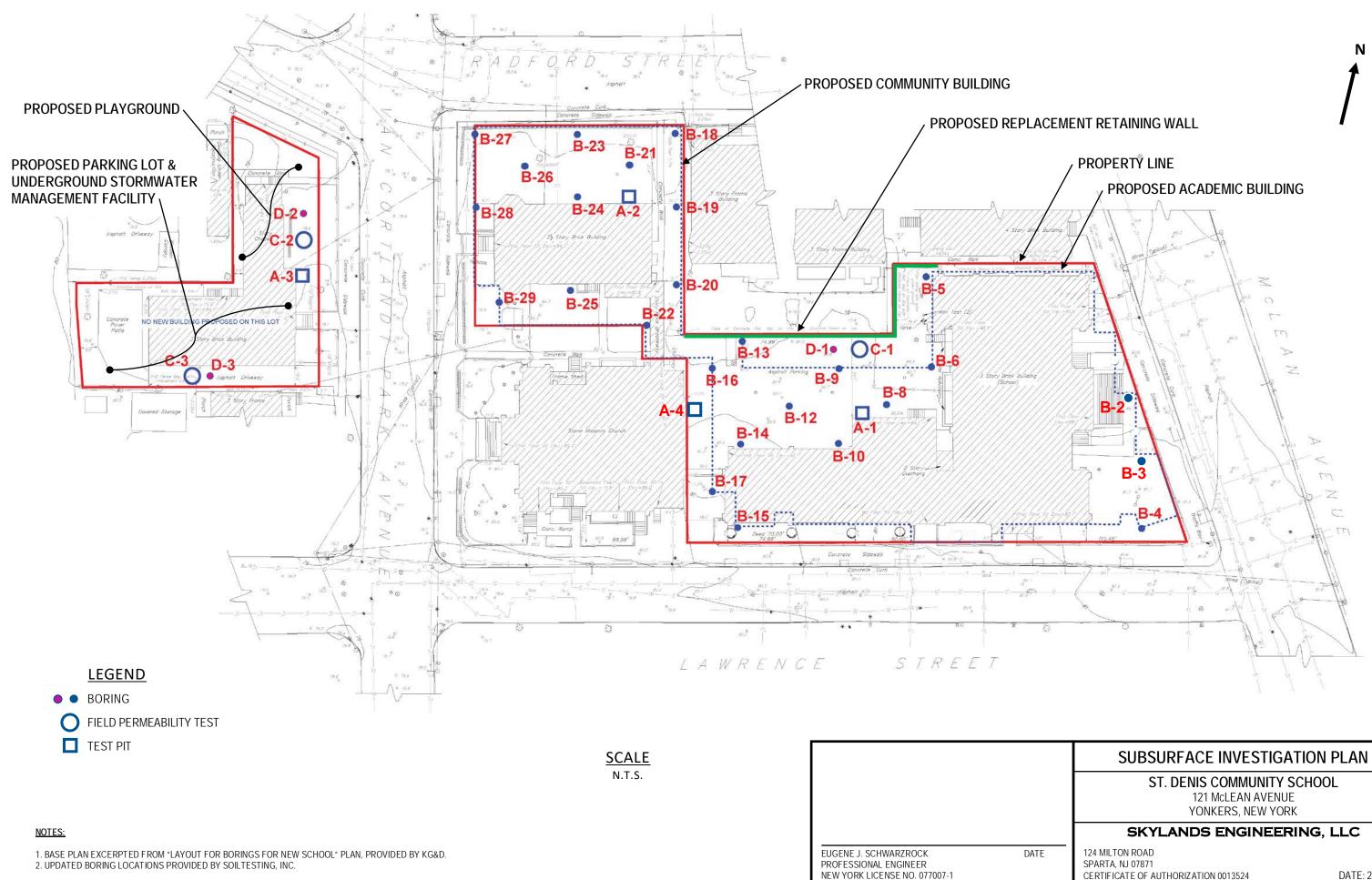
Structural fill should be placed in maximum 12 in. loose lifts and compacted to 95% of its maximum dry density at optimum moisture content as determined by the Modified Proctor Density Test (ASTM D 1557). These operations should be performed under full-time geotechnical inspection and testing by either the Sand Cone Method (ASTM D 1556), Nuclear Density Gauge (ASTM D 2922 and D 3012), or other moisture/density test methods. These density tests should be performed by an experienced geotechnical inspector at sufficient frequency and spacing to ensure proper compaction, with the following criteria suggested as guidelines:

Location	Frequency of Testing
Structural fill beneath foundations, adjacent to structures & beneath slabs-on-grade	1 test every 2,500 SF min. 1 test per lift
Utility trenches	1 test every 50-100 LF per lift min. 3 tests per day
General site fill (beyond building limits)	1 test every 5,000 SF per lift min. 1 test per lift

For excavations that extend deeper than 5 ft., sheeting, shoring, sloping, or benching of the excavation sidewalls is required per OSHA standards. Considering the relatively open space and lack of shallow bedrock at this site, all the above-mentioned means may be suitable for use at this project. Based upon the material characteristics and estimated strength of the soils encountered during the subsurface exploration, the soil present on site may be assumed to be Type C and should be sloped at a 1.5H:1V (34°) per OSHA requirements. For the design of temporary sheeting or shoring, the soil properties listed above for retaining wall design are recommended. All sheeting, shoring and bracing shall be designed by a professional engineer licensed in the State of New York.

It is recommended that all foundation construction and subgrade preparation procedures be inspected by a qualified geotechnical engineer experienced with these types of construction. Full time inspection is recommended during placement of structural fill to ensure adequate testing is performed, and moisture contents are maintained at suitable levels.

APPENDIX



CERTIFICATE OF AUTHORIZATION 0013524

DATE: 2-5-2021

Boring Logs

	SOI					х 9 х	CLIENT: KG&D Architects & Engineers							SHEET <u>1</u> OF <u>1</u> HOLE NO. B-1
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			D, C				·				ormer St			BORING LOCATIONS
			3) 26 4) 94				PROJECT NAME Former St Denis Parochial School						per Plan	
FO	REMAN -						LOCATION Van Cortlandt Park Ave & Lawrence St						F	
		W.1					L	Yonkers, NY						
INS	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET
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NC	NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent													
L	conditions at other locations or times.													
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WC	R = WEIG	нт о	F RO	DS		WOH =	WEIGH	T OF H	IAMME	R & RO				C = COARSE
	= SPLIT T										20 - 35% A	ND =35 - 50	1%	M = MEDIUM F = FINE
<u>P 1</u>	SI OINHO	100	J. U.	11111	~~~ ~ (, ,070		· · · ·			_0 0070 F			

SOI 90		STI			× .	CLIEN	T:	KG	i&D Arc	chitects & E	ngineers		SHEET_1_0 HOLE NO.	F <u>1</u> B-2	
		RD, C				PRO.II	ECT NC).		G211-167	1-20		=	2-2	
C.	T (20	12, 0 3) 26 (4) 94	62-93	328		J	ECT NA			Former St arochial S	Denis	nter viente wadarde navives severe formation	BORING LOCATIONS per Plan		
OREMAN -			10-40	550		LOCA	TION	Va				awrence St	pernan		
MK/ao										Yonkers					
NSPECTOR									*******	CASING	SAMPLER	CORE BAR	OFFSET		
						ļ	TYPE			HSA	SS*		DATE START	1/8/21	
ROUND W	ATER	OBSE	RVA	TIONS	6]	SIZE I	.D.		4 1/4"	1 3/8"		DATE FINISH	1/8/21	
.T <u>10'</u> FT		1		S			7	IER WT			140#	BIT	SURFACE ELEV.	EI. ±80	
T_FT_AF	TER_					 	HAMN	IER FA	LL		30"		GROUND WATER ELEV.	El. ±70	
		<u>,</u>	SAM	PLE											
CASING BLOWS PER	BLOWS NO Type PEN REC. PER DEPTH		DEPTH	ON (FOR	WS PEF SAMPI CE ON 6 - 12	ler Tube)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH	1	TFICATION OF SOIL REM OSS OF WASH WATER, S ROCK, ETC.				
FOOT	ļ	ļ			@ BOT			12- 10 	(MIN)	MOIST	ELEV		****		
	1	SS	24"	14"	2'0"	3	2	ļ	<u> </u>	moist	2101	6" concrete, 6" bri			
	2	ss	24"	12"	4'0"	6	8	<u> </u>		v loose moist	2'0"	Brn F SAND, sm s Brn F SAND	an (hossing III)		
						5	7			compact					
5	3	SS	24"	18"	6'0"	7	12			moist		Brn F SAND			
	4		04"	101	0101	12	13	ļ	 	compact		CAME			
	4	SS	24"	18"	8'0"	24 12	15 12	<u> </u>		moist compact		SAME			
	5	SS	24"	17"	10'0"	6	7			moist		SAME			
0]				99				compact					
	6	SS	24"	20"	12'0"		10 4			wet		SAME			
						5	4			loose					
				 											
5]					
	7	SS	24"	20"	17'0"	5	2	ļ		wet		SAME			
						1	2			v loose					
									<u> </u>	1					
20					*****			-]					
	8	SS	24"	20"	22'0"	8	7	ļ		wet		SAME			
						7	8			compact					
										1					
25]					
	9	SS	24"	24"	27'0"	5	5			wet		SAME			
						7	7			compact	27'0"				
		┟											E.O.B 27'0"		
0							0			j l					
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		<u> </u>										* SAF	FETY HAMMER CATHEAD & RO)PE	
0										1					
IOTE: Sul con	ditio	ons a	t spe	ecific	locati	ons ar	nd ma			represent sent	andarostanisko karatalarika (h. 60	aðograndara að skriði skinna skriðskinna skriðskinna skriðskinna skriðskinna skriðskinna skriðskinna skriðskinn	n an tha an		
					cation		mes.		010						
							Т = ТН		-	~		SING TO	FI. [HOLE NO.	B-2	
OR = WEIG					WOH = 1						201		C = COARSE		
S = SPLIT T					H.S.A. =								M = MEDIUM		
COND SU ROUND SU = AUGER OR = WEIG = SPLIT T	ditic RFAC UP = HT O UBE	DINS A DE TO UNDI F ROI SAMP	t oth STUF DS	i er lo F RBED	cation T. U PISTON WOH = H.S.A. =	s or til SED WEIGH	T = TH T OF H OW ST	INWAL AMMEI EM AU	CASIN L R & ROI GER	G THEN_ V = VANE T	EST	SING TO		B-2	

S	OIL					`. `.	CLIEN	T:	KG	&D Arc	hitects & E	ngineers		SHEET 1 OF 1 HOLE NO. B-3		
	90 L OXF						PROJI		<u> </u>		G211-167	1-20			B-3	
			3) 26				J			F	ormer St			BORING LOCATIONS		
			4) 94					201147			arochial S			per Plan		
OREMA		RILL	ER				LOCA	ΓΙΟΝ	Va	n Cor			awrence St			
MK/											Yonkers					
NSPECT	OR							TUDE				SAMPLER SS*	CORE BAR	OFFSET	1/8/21	
GROUND		ED (2		TYPE SIZE I	D		HSA 4 ¼"	1 3/8"		DATE START DATE FINISH	1/8/21	
T_10'FT						2			.D. IER WI	-		140#	BIT	SURFACE ELEV.	EI. ±81	
T_FT			~					HAMN	IER FA	LL		30"		GROUND WATER ELEV.	El. ±71	
			S	SAMI	PLE					1			T			
BLOV				DEPTH	ON (FOR	VS PEI SAMP CE ON 6 - 12	ler Tube)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH	1	TFICATION OF SOIL REN OSS OF WASH WATER, S ROCK, ETC.				
F001	r	-		0.4#	101	@ BOT	0-66-1212-18 (N		(MIN)	MOIST	ELEV	C! Tenneil				
		1	SS	24"	12"	2'0"	1	9 5			moist compact		6" Topsoil Brn F SAND, tr gr	avel, brick (fill)		
		2	SS	24*	12"	4'0"	1	2			moist		Brn F SAND, sm s			
		-		24"	401	6'0"	3	4			loose	4'0"	Brn F SAND		********	
5		3	SS	24	18"		8 10	4			moist compact		DIII F SAND			
		4	SS	24"	20"	8'0"	13	15			moist		SAME			
		-		0.411	10"	100	15	12 7			compact		CAME			
10		5	SS	24"	18"	10'0"	6 7 7 8				moist compact		SAME			
		6	SS	24"	18"	12'0"	8				wet		SAME			
					ļ		8	7		ļ	compact					
15											j					
		7	SS	24"	20"	17'0"	4	3			wet		SAME			
							2	2			loose					
20		8		0.48	4.0#	22'0"	7	7					CAME			
		<u>+</u>	SS		10	220	6	9			wet compact		SAME			
25		9	SS	24"	20"	27'0"	6	5			wet		SAME			
		Ť		~ '			6	7			compact	27'0"			***	
		\neg														
30		-+												E.O.B 27'0"		
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35																
	\Box	1														
		-+														
													* SAF	FETY HAMMER CATHEAD & RC	OPE	
40		Ţ												in an a subsection of the subsection of		
c	condi	itio	ns at	t spe	ecific	locati	ons ar	nd ma			represent sent					
						Cation		nes.		CASIN	G THEN	CA	SING TO	FT. HOLE NO.	B-3	
= AUGE	RU	P =	UNDI	STUR	BED	PISTON		T = TH	INWAL	-	V = VANE T				D-J	
/OR = W						WOH = V					DS			C = COARSE		
S = SPL						H.S.A. =					20 - 35% A	ND =35 - 50	%	M = MEDIUM F = FINE		

	ILTE				× *.	CLIEN	IT:	KG	&D Arc	chitects & E	ngineers		SHEET_1_O	
	0 DO							_			4.00		HOLE NO.	B-4
	XFOF	-					ECT NO			G211-167			-	
	T (20) Y (91					PROJI	ECT NA	ME		Former St arochial S			BORING LOCATIONS per Plan	
FOREMAN						LOCA	TION	Va				awrence St	perrian	
MK/ao	•									Yonkers,	NY			
INSPECTOR	र									CASING	SAMPLER	CORE BAR	OFFSET	
							TYPE			HSA	SS*		DATE START	1/8/21
GROUND W AT <u>10'</u> FT					5		SIZE I	.D. IER WI	F	4 1⁄4"	<u>1 3/8"</u> 140#	BIT	DATE FINISH SURFACE ELEV.	1/8/21 El. ±81.5
ATFT_A	~							IER FA			30"		GROUND WATER ELEV.	El. ±71.5
1				PIF					1	T		1		······
D PER	OWS NO Type PEN REC				DEPTH	ON (FOR	NS PEI SAMP CE ON 6 - 12	ler Tube)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH		IFICATION OF SOIL REN OSS OF WASH WATER, S ROCK, ETC.	
FOOT	1	<u> </u>	24"	10"	@ BOT			r	(MIN)	MOIST	ELEV	G" Topooil		
	+	SS	<u> 4</u>	10"	2'0"	1	2		<u> </u>	moist v loose		6" Topsoil concrete, brick		
	2	SS	24"	16"	4'0"	2	2		ļ	moist		Brn F SAND, sm s	ilt (possible fill)	
5	3	SS	24"	18"	6'0"	2	3			v loose moist	5'0"			
	+	33	24		00	13	13			compact	50	Brn F SAND		
	4	SS	24"	18"	8'0"	16	16			moist		LtBrn F SAND		
	5	SS	24"	20"	10'0"	<u>14</u> 6	12 8			compact moist		Brn F SAND		
10	- 5	55	24	20	100	6 6 10 7			<u> </u>	compact		DITE SAND		
	6	SS	24"	24"	12'0"					wet		SAME		
		ļ				7	9			compact				
										-				
15									Ĺ	1				
	7	SS	24"	24"	17'0"	4	3			wet		SAME		
	+					4	5			loose				
20		-	048	0.4%	00101	~~~~~	C					CANE		4
	8	SS	24		22'0"	<u>3</u> 5	6 5			wet compact		SAME		
										- compact				
	 	ļ												
25	9	SS	24"	24"	27'0"	6	6			wet		SAME		
						5	7			compact	27'0"			
													5 A D A712"	Antonia - Anton
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				nananna a		******	Madrid Made and And							
35														
	 													
												* SAF	ETY HAMMER CATHEAD & RC)PE
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COI	nditic	ons a	t spe	cific	locatio	ons ar	nd ma			represent sent				
COI GROUND SU					cations		nes.		CASIN	G THEN	CAS	SING TO	FT. HOLE NO.	B-4
A = AUGER	UP =	UNDI	STUR	BED	PISTON		T = TH	INWAL	L	V = VANE T				
VOR = WEI SS = SPLIT					WOH = \ HSA =					DS			C = COARSE M = MEDIUM	
										20 - 35% A	ND =35 - 50	%	F = FINE	

	SOII			•		* .	CLIEN	T:	<u>KG</u>	&D Arc	chitects & E	ngineers		SHEET_1_OF		
		DO									0044 407	4 20		HOLE NO.	B-5	
		FOR [(20)	-					ECT NO			G211-167 ormer St			BORING LOCATIONS		
		(91					PROJ	ECT INA	AIVIE.		arochial S			per Plan		
ORE	EMAN - I						LOCA	TION	Va	n Cor	tlandt Par	k Ave & L	awrence St			
	/IK/jk						 				Yonkers,					
NSPE	ECTOR							TUDE			CASING	SAMPLER SS*	CORE BAR	OFFSET	12/4/20	
		TED	OPCE	DV/A				TYPE SIZE I	П		HSA 4 ¼"	1 3/8"		DATE START DATE FINISH	12/4/20	
	<u>1'</u> FT /					,			.D. IER WI	r.		140#	BIT	SURFACE ELEV.	El. ±80	
	FT AF							HAMM	IER FA	LL		30"		GROUND WATER ELEV.	El. ±69	
Т			S	SAM	PLE			*****		T						
BI D PI						DEPTH	ON (FOR	WS PEI SAMP CE ON 6 - 12	LER TUBE)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH		NTIFICATION OF SOIL REMARKS , LOSS OF WASH WATER, SEAMS ROCK, ETC.		
- <u> F(</u>	ООТ	1		24"	10"	@ BOT 2'0"	6	7	Г	(MIN)	MOIST	ELEV	2" Apphalt: Pro EN	MC SAND, sm FC gravel		
┢			SS			20	6	4	<u> </u>	<u> </u>	moist compact		2 ASPIRATE DITE	no onno, sili to yidrei		
		2	SS	24"	5"	4'0"	3	4	ļ	ļ	dry		brick, concrete			
5		3	SS	24"	6"	6'0"	3	3	 	<u> </u>	loose dry			it FC gravel, brick, concrete frags		
							3	3		1	loose			o grato, bron, conorece nage		
		4	SS	24"	6"	8'0"	3	2	ļ		dry	00	SAME (fill)			
-		5	SS	24"	14"	10'0"	2	2		<u> </u>	v loose moist	8'0"	Brn F SAND	ana matana kata any kanakana kata kata kata ang ang ang ang ang ang ang ang ang an		
							3	4			loose					
		6	SS	24"	18"	12'0"	4	5			wet		Brn F SAND			
┢							5	7		 	loose					
]					
5		7	~~~	24"	20"	17'0"	3	2		-			Brn F SAND			
\vdash			SS	24	20	170	2	2			wet v loose		DHIF SAND			
20										<u> </u>				,	,	
Ť		8	SS	24"	22"	22'0"	3	2			wet		Brn F SAND			
							5	3		_	loose					
											-					
25											1					
		9	SS	24"	20"	27'0"	3	4		ļ	wet	07108	GreyBrn F SAND			
-							4	5			loose	27'0"			an a	
											1			E.O.B 27'0"		
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									ļ		-		* C ^ 1	FETY HAMMER CATHEAD & RC	וסב	
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and the second sec						evealed locati					represent sent	kara ang kang kang kang kang kang kang kang	афиликининин наликетин талиаталалар талаат	an a	al constitues and a second second as	
	con	ditio	ns a	t oth	er lo	cation	s or ti	mes.	-	-			0.000			
						T. U PISTON		T = T⊦		CASIN	G THEN_ V = VANE T		SING TO	FT. HOLE NO.	B-5	
OR	= WEIG	HT O	F ROI	os		WOH = 1	WEIGH	T OF H	AMME	R & RO		_~.		C = COARSE		
~ .	SPI IT T	UBE S	SAMP	LER		H.S.A. =	HOLL	OW ST	EM AU	GER				M = MEDIUM		

	SOI			•).	CLIEN	T:	KG	&D Arc	hitects & E	ngineers		SHEET <u>1</u> OF <u>1</u> HOLE NO. B-6		
			NOV.					ECT NO	<u></u>		G211-167	1_20			B-6	
			3) 26							F	ormer St			BORING LOCATIONS		
		•	4) 94				ERO31	201102		-	arochial S			per Plan		
FO	REMAN -						LOCATION Van Cortlandt Park Ave & Lawrence St									
	MK/jk						Yonkers, NY						L			
INS	PECTOR						Management of the second se				CASING	SAMPLER	CORE BAR	OFFSET	10///00	
			0.000				TYPE				HSA	SS*	DATE START 12/4/20			
1	OUND WA <u>10'</u> FT					5	NAME AND ADDRESS OF TAXABLE PARTY OF TAXAB	SIZE I	.D. IER WI	г	4 1⁄4"	<u>1 3/8"</u> 140#	BIT	DATE FINISH SURFACE ELEV.	12/4/20 El. ±80.7	
1	FTAF	e							IER FA			30"		GROUND WATER ELÉV.	El. ±70.7	
				SAM			1			T	1		T			
					T	1		WS PEF		CODE	DENSITY	STRATA	FIELD IDENT	IFICATION OF SOIL REM	ARKS INCL.	
ΗL	CASING		_	DEN	0000		1	SAMP		CORE	OR	CHANGE	COLOR, LO	DSS OF WASH WATER, S	EAMS IN	
DEPTH	BLOWS PER	NO	lype	PEN	REC	DEPTH		CE ON		PER FT	CONSIST	DEPTH		ROCK, ETC.		
	FOOT					@ BOT	0-6	6 - 12	12- 18	(MIN)	MOIST	ELEV				
		1	SS	24"	10"	2'0"	7	3	ļ	ļ	dry		2" Asphalt; OrngBi	m F SAND, tr FC gravel, tr silt		
		2	SS	24"	16"	4'0"	2	2 3	ļ	<u> </u>	loose moist		Brn F SAND & SIL	T, tr FC gravel (possible fill)		
			- 33	- 27	10		4	8	<u> </u>		loose	3'6"				
5		3	SS	24"	12"	6'0"	7	9		ļ	moist		Brn FMC SAND			
		4		24"	18"	8'0"	11	14 14			compact		Brn FMC SAND, s			
		4	SS		10	00	18	14			dry dense		DIT FING SAND, S	III FO YIAVEI		
		5	SS	24"	20"	10'0"	6	8		<u> </u>	dry		OrngBrn F SAND,	tr F gravel		
10				0.48	0.01	4.0108	8	6		<u> </u>	compact		D. FOAND	E SAND		
		6	SS	24"	22"	12'0"	7	5		<u> </u>	wet loose		Brn F SAND			
							<u> </u>	·			,0000					
					ļ				ļ	ļ						
15	eeta miranda ka mada	7	SS	24"	18"	17'0"	2	2		-	wet		SAME			
			- 33	24		110	2	2		<u> </u>	v loose					
20										 				,	,	
20		8	SS	24"	20"	22'0"	3	4			wet		SAME			
							3	5			loose					
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25																
	0719915949959499999999999999999	9	SS	24"	14"	27'0"	3	4			wet		SAME			
							4	5			loose	27'0"				
							[E.O.B 27'0"		
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40	and the local data to be a second of the local data of the local data of the local data of the local data of the			a alpetere y a des								****				
NC	NOTE: Subsoil conditions revealed by this investigation represent conditions at specific locations and may not represent															
L	conditions at other locations or times.															
	GROUND SURFACE TOFT. FT. HOLE NO. B-6 A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST															
wo	R = WEIG	HT O	F ROI	DS		WOH =	WEIGH	T OF H	AMME	R & RO		LU !		C = COARSE		
											00 050		ND (
PR(S = SPLIT TUBE SAMPLER H.S.A. = HOLLOW STEM AUGER M = MEDIUM ROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE															

	SOI			•) .	CLIEN	T:	KG	&D Arc	chitects & E	ngineers	2007-00-00-0-0-0-0-0-0-0-0-0-0-0-0-0-0-0	SHEET 1 OF 1 HOLE NO. B-7
			NOV RD, C				DPO II	ECT NC	<u> </u>		G211-167	1.20		HOLE NO. B-7
			(D, C)3) 2(ECT NO		F	Former St			BORING LOCATIONS
			4) 94					_01 N/	0VIL		arochial S			per Plan
FO	REMAN -						LOCA	TION	Va	n Cor			awrence St	
	DEOTOD							·····			Yonkers			OFFORT
INS	PECTOR							TYPE			CASING HSA	SAMPLER SS*	CORE BAR	OFFSET DATE START
GR	OUND W	ATER	OBSE		TION	3	1	SIZEI	П		4 1/4"	1 3/8"		DATE START
	_FT_AF								IER WI			140#	BIT	SURFACE ELEV.
AT.	FTAF	TER_	но́	URS			I	HÁMM	IER FA	LL		30"		GROUND WATER ELEV.
 			5	SAM	PLE		<u> </u>							
							BLO\	NS PEF	R 6 IN	CORE	DENSITY	STRATA	1	IFICATION OF SOIL REMARKS INCL.
PTH	CASING BLOWS PER	NO	Туре	PEN	REC			SAMP		TIME PER	OR CONSIST	CHANGE DEPTH	COLOR, LU	DSS OF WASH WATER, SEAMS IN ROCK, ETC.
B	· · · · · ·					DEPTH		CE ON 6 - 12		FT				
	FOOT	 	┢		 	@ BOT	 	[I	(MIN)	MOIST	ELEV	1	
													THIS LOCAT	TION OMITTED FROM SCOPE OF WORK
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	ang				-		tanangi kepira nagala kapar	at ann an Ann Ann An Ann An Ann						
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		benever the constant									1			
			 	 										
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NC						evealeo c locati					represent sent			
	con	ditic	ons a	t oth	ner lo	cation	s or ti	mes.	-	-				
	OUND SU AUGER							T = TH		CASIN	G THEN			FT. HOLE NO. B-7
	AUGER R = WEIG					WOH = '						LU1		C = COARSE
ss	= SPLIT T	UBE	SAMF	PLER							00 0501 -	ND . 05 . 55		
LLLK	JPURTIO	NS US	SED:	IRAC	JE = 0	1 - 10%	LITILE	= 10 - 2	∠0% S	UME =	20-35% A	ND =35 - 50	<i></i> γ₀	F = FINE

	SOII		S I II NOV	-		- / -	CLIEN	T:	KG	&D Arc	hitects & E	ngineers		SHEET_1_O HOLE NO.	F_2 B-8
			D, C				PROJE	ECT NC).		G211-167	´1-20			0-0
			3) 26				L	ECT NA		F	ormer St			BORING LOCATIONS	
			4) 94							Р	arochial S	School		per Plan	
	REMAN - I	ORILL	ER				LOCAT	TION	Va	n Cor			.awrence St		
	JK/eq										Yonkers				
vs	PECTOR							TUDE			CASING HSA	SAMPLER SS*	CORE BAR	OFFSET	12/21/20
	OUND WA		OPer	TO\ / A T				TYPE SIZE I	D		<u> </u>	1 3/8"		DATE START DATE FINISH	12/23/20
	10' FT A								.D. 1ER WT		4 /4	140#	BIT	SURFACE ELEV.	El. ±80.
~	_FT AF								IER FAI		,	30"	······································	GROUND WATER ELEV.	El. ±70.
	·····	[5	SAMI	PLE					T			T		
UEP I	PER	NO	Туре	PEN	REC.	DEPTH	ON (FOR	VS PEF SAMPI CE ON 6 - 12	LER TUBE)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH	1	IFICATION OF SOIL REN DSS OF WASH WATER, ROCK, ETC.	
	FOOT	1	SS	24"	14"	@ BOT 2'0"	6	3	T	(MIN)	MOIST moist	ELEV	BrnOrpg EM SAN	D, sm silt, tr asphalt (fill)	
		1	33	<u> 44</u>	14	20	3	3		<u> </u>	loose			o, om ont, a dopticat (illi)	
		2	SS	24"	4"	4'0"	4	4	1		moist		LtBrn FM SAND, s	sm silt, tr asphalt (fill)	
5		3	SS	24"	16"	6'0"	3	4			loose moist	4'0"	LtBrnGrey F SAND) lit M cond	
5	75776-1200-1200-1200-1200		- 22	2.4		00	12	18			compact		Elbinoley i SAN	, it in Sana	
		4	SS	24"	12"	8'0"	15	15			moist		LtBrn F SAND, lit I	M sand	
		5	SS	24"	22"	10'0"	18 5	16 6			dense moist		LtBrnGrey FM SAI	ND lif C sand	
10			_ 33	24	122	100	7	5	<u> </u>		compact		Libilioley I w OA	ND, III O Salid	
		6	SS	24"	14"	12'0"	5	4			wet		LtBrnGrey FM SAI	ND, lit C sand	
							3	3			loose				
15						and south and south									
		7	SS	24"	20"	17'0"	2	3			wet loose		GreyLtBrn F SANE	D, lit MC sand	
					<u> </u>						10036				
20		8	SŚ	24"	24"	22'0"	1	· 2			wet		LtBrn F SAND, sm	Misand	¢
		<u> </u>	- 33	- 27	27	220	2	2		<u> </u>	v loose			in ouria	
25															
-0		9	SS	24"	23"	27'0"	6	11			wet		LtBrnGrey FM SAN	ND, sm M sand	
							13	18			compact				
30															
		10	SS	24"	24"	32'0"	6	13			wet		LtBrn F SAND, lit I	MC sand	
							15	17			compact				
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35	nan san san san san san san san san san			0.0	0.0	07101								Manual to Quest	
		11	SS	24"	20"	37'0"	10 17	14 22	 		wet dense		LtBrn F SAND, sm	i wi sano, tr C sano	
							18								
									ļ				* SAF	ETY HAMMER CATHEAD & R	OPE
10	TE. C			diti-		avaala	d by f	hie is	Voetic	l	represen	anaran menangkan kan kan kan kan kan kan kan kan kan			an ta an
ŧU	cor	ditic	ons a	at sp	ecifi	c locat	ions a	ind m	ay no			L			
	cor	ditic	ons a	it otl	her lo	ocatior	ns or t	imes.	•	-		0400		HOLE NO	B-8
	OUND SUI AUGER						ED		C IINWAL	ASING	THEN V = VANE T		IG TOFT		. Б- õ
10	R = WEIG	HT O	FROE	DS		WOH = V		r of h	AMMEF	R & ROE				C = COARSE	
S :	= SPLIT T					H.S.A. =					0-35% ANI			M = MEDIUM	

	SOI	LTE	STI	NG,	INC	· · ·	CLIEN	T:	KG	&D Arc	chitects & E	ngineers		SHEET_2_OI	
			NOV											HOLE NO.	B-8
			D, C				PROJE				G211-167			-	
			3) 26				PROJE	ECT NA	ME		ormer St arochial S			BORING LOCATIONS per Plan	
50	N REMAN -		4) 94	10-40	550		LOCAT		Va				awrence St		
ľ	JK/eq						LOOM				Yonkers				
INS	PECTOR						İ				CASING	SAMPLER	CORE BAR	OFFSET	
								TYPE			HSA	SS*		DATE START	12/21/20
GF	OUND WA	TER	OBSE	RVAT	IONS			SIZE I	.D.		4 1/4"	1 3/8"		DATE FINISH	12/23/20
	<u>10'</u> FT				S				IER WT			140#	BIT	SURFACE ELEV.	El. ±80.7
AT	FT_AF	IER_						HAMM	IER FA	L.L.		30"		GROUND WATER ELEV.	El. ±70.7
				SAM	PLE	1	ł							IFICATION OF SOIL REM	
DEPTH	PER	NO	Туре	PEN	REC	DEPTH	ON (FOR(WS PEF SAMPI CE ON 6 - 12	_ER TUBE)	FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH		DSS OF WASH WATER, S ROCK, ETC.	
	FOOT	10		0.4#	201	@ BOT	L		1	(MIN)	MOIST	ELEV	LtBrn F SAND, sm	n M cand	
		13	SS	24"	20"	42'0"	11 15	12 22	<u> </u>	+	wet compact		LIDIN F OAND, SH	FIN SALLA	
				<u> </u>	+										
											-				
45		14	SS	24"	23"	47'0"	16	20			wet		LtBrn F SAND, lit	Misand	
		14	33	24	25	470	24	28			dense		Lenni orace, a	in our u	
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			ļ	ļ	<u> </u>	_		ļ		_	4				
50		15	SS	24"	24"	52'0"	20	24			wet		LtBrn F SAND, sm	n M sand	
		<u> </u>		<u> </u>	<u> </u>	1	25	30			dense		, in the second s		
								ļ		<u> </u>					
55		ļ			_			 	ļ		4				
100		16	SS	24"	24"	57'0"	22	26			wet		LtBrn F SAND, lit	M sand	
							30	32			v dense				
			<u> </u>	ļ	Į	 	ļ	ļ	 		4				
60		,	┨────		<u> </u>	1	1				- ,		· ·		*
		17	SS	24"	23"	62'0"	26	27			wet		LtBrn F SAND, lit	M sand	
				[ļ	31	35			v dense	62'0"			
								<u> </u>			4			E.O.B 62'0"	
65		+				<u> </u>	<u> </u>			+	-				
							1								
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	ļ		<u> </u>					<u> </u>			4				
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		╂		╂	<u> </u>						-				
										1]		* SAF	FETY HAMMER CATHEAD & R	OPE
80	Compare and the states					<u> </u>	1			L				<u></u>	any payering data and the state of the state
N	CO	nditi	ons	at sp	becif	ic locat	tions a	and m	nay no	gation ot repr	represen resent	it			
	CO	nditi	one	at of	hor l	locatio	ne or í	times				CA91	NG TOFT	HOLE NO	B-8
GF A	OUND SU AUGER	UP =	- 10 UND	ISTUF	⊦ RBED	PISTON		T = TH	IINWAI	LASING	V = VANE	TEST	FI		
	DR = WEIC = SPLIT 1							T OF H	AMME	R & ROI	DS			C = COARSE	
											20 - 35% AN	ID =35 - 50%		M = MEDIUM F = FINE	

	SOI			•		4 9 z	CLIEN	T:	KG	i&D Arc	chitects & E	ngineers		SHEET_1_0 HOLE NO.	
			NOV D, C					ECT NO	<u> </u>		G211-167	1.20			B-9
			3) 26				ļ			F	Former St			BORING LOCATIONS	
		•	4) 94				FNOJ	_C1 (\/	AVIC.	-	arochial S			per Plan	
OF	REMAN -						LOCAT	TION	Va	n Cor	tlandt Par	k Ave & L	awrence St	· · · · · · · · · · · · · · · · · · ·	
	JK/eq										Yonkers,				
NSI	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET	40/04/00
			0000					TYPE SIZE I	-		HSA 4 ¼"			DATE START DATE FINISH	12/21/20
	DUND WA					>			.D. IER WI	-		140#	BIT	SURFACE ELEV.	El. ±80
	FT AF					, 			IER FA	>		30"		GROUND WATER ELEV.	El. ±70
1		ľ		SAM	PLE					<u> </u>			1		
- - - -	CASING BLOWS PER	NO	Туре	PEN	REC.	DEPTH	ON (FOR	NS PEI SAMP CE ON 6 - 12	LER TUBE)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH		TFICATION OF SOIL REN OSS OF WASH WATER, ROCK, ETC.	
_	FOOT	1		24"	20"	@ BOT 2'0"	12	6	r	(MIN)	MOIST moist	ELEV	DkBm FM SAND		
		<u>'</u>	SS	<u> 24</u>	20	20	4	3		<u> </u>	loose				
l		2	SS	24"	6"	4'0"	2	1	ļ		dry/moist		LtBrn FM SAND, I	it asphalt, lit silt	
5		3	SS	24"	5"	6'0"	1 6	2	 	 	v loose dry		LtBrn FM SAND, s	sm asnhalt (fill)	
			- 55	4		00	9	14			compact	6'0"	LIDITI IN OAND, S	sin asphair (nii)	
		4	SS	24"	14"	8'0"	16	18		[moist		LtBrn F SAND, lit	M sand	
╞		5	SS	24"	17"	10'0"	18 6	22 8			dense moist		Grevi tBrn E SANI	D, sm M sand, tr silt	
10			- 33	24		100	9	11			compact		Cicyelbin Cran	, shi w dana, a she	
		6	SS	24"	16"	12'0"	5	3			wet		SAME		
ł							2	2		 	loose				
ľ]				
15		-	ļ		4.01	47108							O. FOAND		
╞		_7	SS	24"	12"	17'0"	1 2	2			v loose		Grey F SAND		
t															
20				ļ	 				ļ		4.		-	,	
201	****	8	SS	24"	16"	22'0"	4	6			wet		GreyBrn FM SANI	C	
I							7	9			compact				
$\left \right $											-				
25										<u> </u>					
ľ		9	SS	24"	10"	27'0"	1	1			wet	07105	Grey F SAND		
╞							2	2			v loose	27'0"			
ŀ														E.O.B 27'0"	
30	****	ana ana ama							harmon						
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35	9779-00-00-00-00-00-00-00-00-00-00-00-00-00														
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10													- SAF	FETY HAMMER CATHEAD & R	JE
_ L						eveale locati					represent	874797777777777777777777777777777777777		nga pangungan pangung kana kana kana kana kana kana kana ka	
	con	ditic	ons a	t oth	ner lo	cation	s or ti	mes.	iy not	-					
	DUND SU	RFAC	E TO		F	T. U	SED		12 N IS A 2 A -	CASIN			SING TO	FT. HOLE NO.	B-9
voi	AUGER R = WEIG	SHT O	F RO	DS		PISTON WOH =			IINWAL AMME		V = VANE 1 DS	ESI		C = COARSE	
S =	= SPLIT T	UBE	SAMF	PLER		H.S.A. =	HOLL	OW ST	EM AU	GER				M = MEDIUM	
RC	PORTIO	NS U	SED:	TRAC	DE = 0	- 10%	LITTLE	= 10 -	20% 5	SOME =	20 - 35% A	ND =35 - 50	1%	F = FINE	

	SOI					> /,	CLIEN	T:	KC	S&D Arc	hitects & E	ngineers		SHEET_1_0	F
			NOV				ļ							HOLE NO.	B-10
			D, C				Į	ECT NO			G211-167				
			3) 26 4) 94				PROJE	ECT NA	ME		ormer St arochial S			BORING LOCATIONS	
:01	REMAN -			10-40	500		LOCAT		Va				awrence St	per Plan	
	MK/jk	0.000							•0		Yonkers,				
_	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET	
							Į	TYPE			HSA	SS*		DATE START	12/4/20
	OUND W					5	1	SIZE I	.D.		4 ¼"	1 3/8"		DATE FINISH	12/4/20
	<u>10'</u> FT				s,				IER WI	1		140#	BIT	SURFACE ELEV.	El. ±80.9
1_	FTAF	TER_				****	ļ	HAMN	IER FA			30"		GROUND WATER ELEV.	El. ±70.9
				SAMI	PLE	T	ļ								
	CASING BLOWS PER	NO	Туре	PEN	REC	DEPTH	ON (FOR	WS PEI SAMP CE ON 6 - 12	LER TUBE)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH		TFICATION OF SOIL REM OSS OF WASH WATER, S ROCK, ETC.	
	FOOT		<u> </u>	ļ	<u> </u>	@ BOT		,	12- 10	(MIN)	MOIST	ELEV			
		1	SS	24"	10"	2'0"	8	7	 	 	dry		2" Asphalt; Brn FN	AC SAND, sm FC gravel, brick (f	ill)
		2	SS	24"	8"	4'0"	6 4	<u> </u>	<u> </u>		compact dry		Brn F SAND, kit F	C gravel, tr silt	
			Ľ				5	4			loose			-	
5		3	SS	24"	14"	6'0"	5	5		-	dry		Brn FMC SAND, li	it FC gravel, tr silt, asphalt (fill)	
		4	SS	24"	4"	8'0"	6	<u>6</u> 3	 	<u> </u>	compact dry		SAME		
	L	4	35	4	+	00	4	<u> </u>	<u> </u>		loose	8'0"	O-TIME:		
		5	SS	24"	18"	10'0"	9	8			dry		Brn F SAND, lit FO	C gravel	
10	NAMPOLISIN ADVONSATIO			0.45		4.0108	9	9	a a a a a a a a a a a a a a a a a a a		compact		5 5 6 1 1 5		
		6	SS	24"	20"	12'0"	4	5 4			wet compact		Bm F SAND		
							- v			<u> </u>	Compact				
					[[1				
15	1997-1997-1997-1997-1997-1997-1997-1997	7		24"	20"	17'0"	3	4			unt				
		- 1	SS	24	20	17.0	4	5			wet loose		GreyBrn F SAND		
										1	1				
20					ļ	ļ			 	 				,	
20		8	SS	24"	22"	22'0"	5	4			wet		Grey F SAND		
							4	6			loose				
25					<u> </u>										
		9	SS	24"	20"	27'0"	4	4			wet		SAME		
							5	6		ļ	loose	27'0"	a setuzistezsumostasiuatetainetenideati	a an	****
														E.O.B 27'0"	
30											j				
										 					
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													* SAF	FETY HAMMER CATHEAD & RO	OPE
10						L		Antiperatura di Sanada	L	L		adaratik kulturata anar		12/23/581102/5712612/20/23/22/20/252/20/252/20/252/20/252/20/26/25/20/26/25/20/26/25/20/26/25/20/26/25/20/26/2	angana kanalanki ta'n yaban diwidi
10	con	ditio	ns a	t spe	ecific	eveale c locati ocation	ons ar	nd ma			represent sent				
	DUND SU	RFAC	E TO		F	T. U	SED			CASIN	-		SING TO	FT. HOLE NO.	B-10
	AUGER R = WEIG										V = VANE T	EST		C = COARSE	
	R = WEIG = SPLIT T					WOH = H.S.A. =					03			C = COARSE M = MEDIUM	
											20 - 35% A	ND =35 - 50)%	F = FINE	

	SOI		STI).	CLIEN	IT:	KG	&D Arc	chitects & E	ngineers		SHEET <u>1</u> OF <u>1</u> HOLE NO. B-11
			NOV RD, C					ECT NO	<u></u>		G211-167	1-20		HOLE NO. B-11
			(B, C 13) 2(ECT NA		F	ormer St		· · · · · · · · · · · · · · · · · · ·	BORING LOCATIONS
			4) 94				1100		(171)		arochial S			per Plan
FO	REMAN -	DRILI	ER				LOCA	TION	Va	in Cor	tlandt Par	k Ave & L	awrence St	
							<u> </u>				Yonkers			
INS	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET
	OUND W		0000					TYPE			HSA 4 ¼"	SS* 1 3/8"		DATE START DATE FINISH
1	_FT AF				HON	5		SIZE I	.D. IER WI	г	4 74	140#	BIT	SURFACE ELEV.
1 7	FTAF				1				IER FA		 	30"		GROUND WATER ELEV.
-	<u> </u>	T		SAM	PLE					Τ	[1	
								WS PEI	DEIN	CORE	DENSITY	STRATA		IFICATION OF SOIL REMARKS INCL.
DEPTH	CASING BLOWS		Tuno	DEN	REC			SAMP		ТІМЕ	OR	CHANGE	COLOR, LO	DSS OF WASH WATER, SEAMS IN
DEF	PER		1 + yhe	FEN	REU	DEPTH		CE ON 6 - 12		PER FT	CONSIST	DEPTH		ROCK, ETC.
	FOOT	ļ	L	ļ	ļ	@ BOT	0-0	0 - 12	12- 10	(MIN)	MOIST	ELEV		
			<u> </u>	 						<u> </u>	-		THISLOCAT	TION OMITTED FROM SCOPE OF WORK
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40	TE. 0-			d:4:								1745557410255411576777777425440		
INC						evealed c locati					represent sent			
	con	ditic	ons a	t oth	er Ic	cation	s or ti		-	-				
	OUND SU AUGER							Т = ТН		CASIN	G THEN_ V = VANE T		SING TO	FT. HOLE NO. B-11
1	R = WEIG					WOH = 1								C = COARSE
1	= SPLIT T										00 000			M = MEDIUM
(PR	JPORTIO	NS US	SED:	TRAC	;e = C) - 10%	LITTLE	= 10 - 2	20% S	SOME =	20-35% A	ND =35 - 50	%	F = FINE

	SOII 90						CLIEN	T:	KG	&D Arc	hitects & E	ngineers		SHEET <u>1</u> 0 HOLE NO.	F <u>1</u> B-12
		FOR					PROJE	ECT NC).		G211-167	1-20			
	C	Г (20 Y (91	3) 26	62-93	28			ECT NA			ormer St arochial S	Denis		BORING LOCATIONS per Plan	
OR	EMAN -			10-40	50		LOCAT	ION	Va				awrence St	porrian	
	JK/eq	0,020					200/11				Yonkers,				
	ECTOR										CASING	SAMPLER	CORE BAR	OFFSET	
								TYPE			HSA	SS*		DATE START	12/21/20
RO	UND WA	ATER	OBSE	RVA	TIONS	5		SIZE I	.D.		4 ¼"	1 3/8"		DATE FINISH	12/21/20
	<u>2'</u> FT /				S	,			IER WT			140#	BIT	SURFACE ELEV.	El. ±80.
Τ	FT AF	TER_	_HO	URS				HAMM	IER FA	LL		30"		GROUND WATER ELEV.	El. ±68.
Τ			5	SAMF	PLE										
- - - - - - - - - - - - - - - - - - -	CASING BLOWS PER FOOT	NO	Туре	PEN	REC	DEPTH @ BOT	ON (FORC	VS PEF SAMPI CE ON 6 - 12	ler Tube)	CORE TIME PER FT (MIN)	DENSITY OR CONSIST MOIST	STRATA CHANGE DEPTH ELEV	1	IFICATION OF SOIL REN OSS OF WASH WATER, ROCK, ETC.	
-+	001	1	SS	24"	6"	2'0"	12	10	<u> </u>		dry	L., L., L., V	Brn FM SAND, lit a	asphalt, tr silt, tr F gravel	
F							8	8	[compact			· · · ·	
		2	SS	24"	7"	4'0"	8	6	ļ	ļ	dry		Brn FMC SAND, li	t asphalt, tr F gravel	
_				24"	8"	6'0"	5 5	3 12	ļ	 	compact		SAME		
5		3	SS	24	<u> </u>		 14	5			dry compact		SAME		
F		4	SS	24"	7"	8'0"	5	6			dry		Brn FM SAND, lit I	F gravel, tr silt, tr brick (fill)	
Ľ							12	18			compact	8'0"			
		5	SS	24"	5"	10'0"	12	15	ļ	ļ	dry		Brn F SAND, sm F	gravel	
10	****	6	SS	24"	13"	12'0"	15 10	14 9	<u> </u>	1	compact moist		LtBrn FM SAND, s	sm F gravel	
┢			- 33	- 27	- 10	120	7	5	<u> </u>		compact			in graver	
Ē															
		ļ			ļ				ļ	ļ					
15		7		24"	16"	17'0"	10	3	<u> </u>		wet		GreyBrn F SAND		
┢		<u> </u>	SS	24	10	170	2	2			loose		Oleybiir OAND		
F					 										
					<u> </u>					ļ					
20	www.co.co.co.co.co.co.co.co.co.co.co.co.co.	~		24"	4 4 11	2210	3	: 5		<u> </u>	a wot		GreyBrnBlk F SAN	חו	r
┝		8	SS	24	14	22'0"	6	2 3			wet compact		I Gleybillok r SAN		
┢					<u> </u>			Ť							
Ľ]				
25	*****		-			07/01					a j			(The second	
┝		9	SS	24"	15"	27'0"	2	3			wet loose	27'0"	Grey FM SAND, li	t F gravel	
┢					<u> </u>		2	2	<u> </u>		0036	210			nganan niyara minasi kanalan
F]			E.O.B 27'0"	
30	seppendus kali kali vita di sili sili sili si								_						
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┝		<u> </u>					 				-				
┢		 			<u> </u>			 	1				* SAF	FETY HAMMER CATHEAD & R	OPE
40								and the second second second second second second second second second second second second second second second]		<u> </u>		an an an an an an an an an an an an an a
NO	TE: Su	bsoi	l cor	ditio	ons r	eveale	d by tl	his in	vestig	ation	represent				
	cor	nditic	ons a	t sp	ecific	c locati	ons a	nd ma	ay not	repre	sent				
200			E TO	t otł	ner lo	ocation	s or ti	mes.		CASIN	G THEN	CA	SING TO	FT. HOLE NO	. B-12
						PISTON			INWAL		V = VANE 1				
VOF	R = WFIG	SHT O	F RO	DS		WOH =	WEIGH	T OF F	IAMME	R & RO	DS			C = COARSE	
						H.S.A. =					20 - 35% A	ND -35 5/	۰%	M = MEDIUM F = FINE	
κU	FUKIIU	U CM	SED:	IKA	<u> </u>	J ~ 10%		- 10 -	2070 3		20-33% /		J / U		

	ILTE		•).).	CLIEN	IT:	KC	&D Arc	chitects & E	Ingineers		SHEET_1_OF	
	0 DO XFOF						ECT NO			G211-167	1.20		HOLE NO.	B-13
	CT (20	,				ġ	ECT NC	*****	F	Former St			BORING LOCATIONS	
	VY (91	-				r ROJi				arochial S			per Plan	
FOREMAN						LOCA ⁻	TION	Va				awrence St		
JK/ec						_				Yonkers				
INSPECTO	R									CASING	SAMPLER	CORE BAR	OFFSET	
							TYPE	_		HSA	<u>SS*</u>		DATE START	12/18/20
GROUND \ AT_11'0" F					5		SIZE I	.D. IER WI	r	4 1⁄4"	<u>1 3/8"</u> 140#	BIT	DATE FINISH SURFACE ELEV.	12/18/20 El. ±81.1
AT FT			,	110							30"	DI	GROUND WATER ELEV.	El. ±70.1
		9	SAMI			 			1	1		T		
		<u> </u>			Γ					DENSITY	STRATA	FIELD IDENT	FICATION OF SOIL REM	ARKS INCL.
E CASIN							NS PEI SAMP		CORE TIME	OR	CHANGE	COLOR, LO	OSS OF WASH WATER, S	SEAMS IN
	S NO	Туре	PEN	REC	DEPTH	(FOR	CE ON	TUBE)	PER	CONSIST	DEPTH		ROCK, ETC.	
FOOT					@ BOT	0-6	6 - 12	12- 18	FT (MIN)	MOIST	ELEV			
	1	SS	24"	6"	2'0"	5	4			moist		BrnRed FM SAND	, lit silt, tr asphalt	
	<u> </u>	<u> </u>	0.41	5"	4'0"	2	1	 	ļ	loose		CANE		
	2	SS	24"	5	4.0	3	2			moist loose		SAME		
5	3	SS	24"	4"	6'0"	7	5	<u> </u>		dry		Brn FM SAND, lit s	silt, tr brick, tr F gravel (fill)	
]				3	2			loose	6'0"			****
	4	SS	24*	5"	8'0"	7	9 10		<u> </u>	dry		Brn FM SAND, sm	F gravel, tr silt	
	5	SS	24"	4"	10'0"	10	10	<u> </u>		compact dry		Brn FM SAND & F	GRAVEL	
10						20	22			dense				
	6	SS	1"	0"	10'1"	50/1			ļ	v dense		No recovery	C GRAVEL @ 10'	
		 		┢				ļ						
								<u> </u>						
15				Ĺ										
	7	SS	24"	11"	17'0"	2	2	ļ	<u> </u>	wet		Brn FM SAND, tr s	ilt	
	_	<u> </u>		┠───		4	5	ļ	<u> </u>	loose				
				<u> </u>				<u> </u>	<u> </u>					
20					r	204003042702500	-							
	8	SS	24"	12"	22'0"	5	8			wet		Grey VFF SAND		
						11	13			compact				
	1								t					
25	_													
	9	SS	24"	20"	27'0"	14 17	17 14			wet	27'0"	Grey F SAND		
							14	ļ		dense	270			
										1			E.O.B 27'0"	
30	_				<u> </u>			<u></u>	ļ					
		 							 					
	1													
		ļ		<u> </u>										
35		h			understation of section of the secti	anga panjabana jengana			himmin					
								<u> </u>	 					
	1		L						<u> </u>					
												* SAF	ETY HAMMER CATHEAD & RO	PE
	uha-		م:د:			J have 41			 		an distant of the second second second second second second second second second second second second second s		58-60-60-60-60-60-60-60-60-60-60-60-60-60-	an kana mana mana kana kana kana kana ka
					eveale c locati					represent sent				
cc	nditic	ons a	t oth	er lo	cation	s or ti		,	•					
GROUND S A = AUGEF						SED	Т – ты	IINWAL	_CASIN	G THEN V = VANE 1		SING TO	FT. HOLE NO.	B-13
WOR = WE													C = COARSE	
SS = SPLIT										20 - 35% A	ND -35 50	10%	M = MEDIUM F = FINF	

	SOI).	CLIEN	T:	KG	S&D Arc	chitects & E	ngineers		SHEET_1_OI	
			NOV						~		G211-167	1 20		HOLE NO.	B-14
			RD, C 03) 20				PROJ				G211-16/		······································	BORING LOCATIONS	
			14) 9 [,]				PROJ	ECT NA			arochial S			per Plan	
FO	REMAN -						LOCA.	TION	Va				awrence St		
	MK/jk										Yonkers				
INS	PECTOR							TYPE			CASING	SAMPLER SS*	CORE BAR	OFFSET	12/4/20
GP	OUND W		OBSI			<u> </u>		TYPE SIZE I			HSA 4 ¼"	1 3/8"		DATE START DATE FINISH	12/4/20
	11' FT					5			<i></i>	r.	-4 /4	140#	BIT	SURFACE ELEV.	El. ±81.2
AT	FTAF	TER	но	URS			l	HAMN	IER FA	LL		30"		GROUND WATER ELEV.	El. ±70.2
	Γ	<u> </u>		SAM	PLE		<u> </u>			T			1		
EPT	CASING BLOWS PER		Туре	PEN	REC	DEPTH	ON (FOR	WS PEI SAMP CE ON 6 - 12	LER TUBE)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH		IFICATION OF SOIL REM DSS OF WASH WATER, S ROCK, ETC.	
	FOOT	1		24"	0"	@ BOT 1'2"	4	41	T	(MIN)	MOIST	ELEV	2" Asphalt, no reco		
			SS	24		12	4 50/2*	41			moist v dense		z Asphait, no recu	ivery	
		[1					
5		2	SS	24"	10"	5'0"	5	2	ļ	ļ	moist loose		Brn F SAND, lit FC	gravel, tr silt (possible fill)	
5		3	SS	24"	10"	7'0"	3	4			moist		Brn F SAND, tr FC	gravel (possible fill)	
			1			<u> </u>	3	7	<u> </u>		loose	6'6"	·		14.11 % ··································
		4	SS	24"	18"	9'0"	14 14	12 17	<u> </u>		moist compact		Bm VF SAND		
10							14	17	<u> </u>		compace				
		5	SS	24"	20"	12'0"	8	7			wet		Brn VF SAND		
		 	╂───		 		8	6	 	 	compact				
			+		<u> </u>				<u> </u>						
15			ļ							ļ					
		6	SS	24"	18"	17'0"	3	3 5			wet loose		Brn F SAND		
		<u> </u>	<u> </u>		<u> </u>						10036				
				ļ	ļ				ļ	ļ					
20		7	SS	24"	16"	22'0"	3	4			wet		Grey F SAND	,	
		<u> </u>	1 33	24	10	220	4	6			loose		Gley I SAND		
25				 					 	 					
20	ROMANNE AND AND AND AND AND AND AND AND AND AND	8	SS	24"	16"	27'0"	3	4			wet		Grey F SAND		
							5	5			loose	27'0"			
			<u> </u>	 										E.O.B 27'0"	
30			<u> </u>	<u> </u>	<u> </u>	 								2.0.0 21 0	
				 	 										
			†	 	 	<u> </u>									
35			ļ					debaneka debaniske dale	*****	anologisticiathesite					
				 											
			 	 											
													* SAF	ETY HAMMER CATHEAD & RC)PE
40					L	L			L					n a standard a standard a standard a standard a standard a standard a standard a standard a standard a standard	lakussatyos anita dalayya yang saya saya anatar
NC	con	ditic	ons a	it spe	ecific	eveale c locati ocation	ons ar	nd ma	vestig ly not	ation repres	represent sent				
GR	CON DUND SU									CASIN	G THEN_	CA	SING TO	FT. HOLE NO.	B-14
A =	AUGER	UP =	UND	ISTUF	RBED	PISTON		T = TH			V = VANE T	EST		C - COADSE	
	r = Weig = Split t					WOH = H.S.A. =					20			C = COARSE M = MEDIUM	
											20 - 35% A	ND =35 - 50		F = FINE	

SOI	LTE	STI	٧G,	INC		CLIEN	T:	KG	&D Arc	hitects & E	ngineers		SHEET 1 (
	DO												HOLE NO.	B-15
	(FOR						ECT NO		······	G211-167				
	T (20					PROJE	ECT NA	ME		ormer St I			BORING LOCATIONS	
OREMAN -	Y (91		6-48	50		LOCA		Va		arochial S		awrence St	per Plan	
JK/eq	UNILL	ER.				LUUA	IION	۷Q		Yonkers,		awrence or		
VSPECTOR	2									CASING	SAMPLER	CORE BAR	OFFSET	
							TYPE			HSA	SS*		DATE START	12/18/20
GROUND W	ATER	OBSE	RVA	IONS	;		SIZE I	.D.		4 1⁄4"	1 3/8"		DATE FINISH	12/18/20
.T <u>11'</u> FT				S			HAMN	IER WI	-		140#	BIT	SURFACE ELEV.	El. ±80.8
TFT_AF	-TER_	_HOI	JRS				HAMN	1ER FA	<u>LL</u>		30"		GROUND WATER ELEV.	El. ±69.8
		5	SAMF	۶LE										
PER		Туре	PEN		DEPTH	ON (FOR	WS PEI SAMP CE ON 6 - 12	ler Tube)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH	1	IFICATION OF SOIL RE DSS OF WASH WATER ROCK, ETC.	
FOOT			0.48		@ BOT		·····	1	(MIN)	MOIST	ELEV		ND (possible fill)	
	1	SS	24"	10"	2'0"	5	4	<u> </u>		moist stiff	2'0"	LtBrn SILT & F SA	עאוו (possible זוו)	
	2	SS	24"	15"	4'0"	2	4	<u> </u>	†	moist	<u> </u>	Brn FM SAND, sm	silt, lit C sand (possible fill)	
						2	5]		loose				
5	3	SS	24"	14"	6'0"	6	9	-		moist		Brn F SAND, sm N	/IC sand, lit VF sand	
	4	SS	24"	16"	8'0"	11 11	11 12			compact dry		Brn F SAND, lit VF	sand	
						12	10		ļ	compact				
10	5	SS	24"	18"	10'0"	10 5	11 6	<u> </u>	 	dry compact		LtBrn VFF SAND		
	6	SS	24"	18"	12'0"	8	9	1		wet		Brn F SAND, sm V	/F sand, lit M sand	
						7	5	1		compact				
	- 						ļ	<u> </u>	<u> </u>	-				
15										-				
	7	SS	24"	22"	17'0"	1	2			wet		LtBrnGrey F SAND	D, sm VF sand	
	ļ					2	3	ļ	<u> </u>	v loose				
	+	 												
20	1							ŀ						
	8	SS	24"	18"	22'0"	5	5	ļ	ļ	wet		Grey F SAND, sm	VF sand, lit M sand	
		 				9	11		+	compact				
25	<u> </u>	-tooling tool	0.41	01	07104		-					Newser		
	9	SS	24"	0"	27'0*	3	4		<u> </u>	wet loose	27'0"	No recovery		
							,				9,555 April 1995 April		<u></u>	
	1	ļ								4			E.O.B 27'0"	
30	-							-	-					
]				
		ļ		ļ			ļ	<u> </u>	ļ	4				
35										4				
~ 		-		h				-	+					
					:		<u> </u>		<u> </u>					
							 	<u> </u>				* 54	FETY HAMMER CATHEAD &	ROPE
40	+	<u> </u>						+						
NOTE: Su	ibsoi	l con	ditic	ons r	eveale	d by t	his in	vestic	jation	represent		and the second second second second second second second second second second second second second second second		in her for a far and a sea for a far a
CO	nditio	ons a	t sp	ecific	c locati	ons a	nd ma	ay not	repre	sent				
CO GROUND SU					cation				CASIN	G THEN	CA	SING TO	FT. HOLE NO	D. B-15
A = AUGER	UP =	UND	ISTUF	RBED	PISTON		T = Tł	INWAL	_L	V = VANE T		- · -		
			ns		WOH =	WEIGH	IT OF H	IAMME	R & RO	DS			C = COARSE	
VOR = WEI SS = SPLIT													M = MEDIUM	

	SOI			NG, AN F		- F :	CLIEN	T:	KG	i&D Arc	chitects & E	ngineers		SHEET_1_O HOLE NO.	F <u>1</u> B-16
				AN F T 06			PRO II	ECT NO)		G211-167	1-20			B-10
			-	52-93			Į	ECTINA		F	Former St			BORING LOCATIONS	
				16-48			111001	201107	41 V 3 Sam		arochial S			per Plan	
0	REMAN -						LOCA ⁻	TION	Va				awrence St		
	JK/eq										Yonkers,	NY			
NS	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET	
								TYPE			HSA	SS*		DATE START	12/18/2
						6		SIZE I		-	4 1/4"	<u>1 3/8"</u> 140#	BIT	DATE FINISH SURFACE ELEV.	12/18/2 El. ±81
	_ <u>12'</u> FT / FT AF			,	3				IER WI IER FA			30"	DIT	GROUND WATER ELEV.	El. ±69
	1			SAMI						<u></u> T	1 1		T		
			Ē			1	{				DENSITY	STRATA	FIELD IDENT	FIFICATION OF SOIL REA	ARKS IN
E	CASING							NS PEI SAMPI		CORE	OR	CHANGE	COLOR, L	OSS OF WASH WATER,	SEAMS IN
	BLOWS	NO	Туре	PEN	REC.	DEPTH	(FOR	CE ON	TUBE)	PER	CONSIST	DEPTH		ROCK, ETC.	
	PER FOOT					@ BOT	0-6	6 - 12	12- 18	FT (MIN)	MOIST	ELEV			
		1	SS	24"	8"	2'0"	2	4			moist		LtBrn FM SAND, I	it silt, lit F gravel	
						416.5	3	4		<u> </u>	loose				
		2	SS	24"	6"	4'0"	8	11 4	<u> </u>		noist compact		LtBrn FM SAND, s	sm ⊢ gravei, lit silt	
5		3	SS	24"	12"	6'0"	7	8	<u> </u>	1	moist		LtBrn FM SAND, I	it silt, tr F gravel	
							11	12			compact			-	
		4	SS	24"	15"	8'0"	18	11		 	dry		LtBrnOrng FM SA	ND, tr silt, tr F gravel	
		5	ss	24"	20"	10'0"	13 11	13 13			compact dry		LtBrn VFF SAND		
10		Ť					14	16			compact				
		6	SS	24"	16"	12'0"	9	11	[ļ	moist		LtBrnGrey F SANI	D, sm VF sand	
			<u> </u>	 	 		7.	8		 	compact				
15		****				THE REAL PROPERTY AND INC.									
		7	SS	24"	16"	17'0"	3	3 6			wet		BrnLtBrn FM SAN	D, tr silt, tr F gravel	
								0		<u> </u>	loose				
20	·	0		24"	1 4 1	22'0"	6	10		-			Grey F SAND, lit M	4 aand	
		0	55	24	14	220	11	10			wet compact		Gley r' SAND, III	vi Saliu	
]				
~~							ļ		ļ	 					
25		9	SS	24"	24"	27'0"	16	15			wet		Grey FM SAND, s	m C sand	
							17	19			dense	27'0"			
				ļ						ļ				E.O.B 27'0"	
30											1			E.O.D 27 V	
	antari da minari da da minari da minari da minari da minari da minari da minari da minari da minari da minari d									[1				
							ļ			ļ	4				
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]		* SAF	FETY HAMMER CATHEAD & RO	OPE
40	International Contraction Contractor	hannessen										Andread and a state of the second second second second second second second second second second second second	L	20-11-10-11-10-11-10-11-10-11-10-11-10-11-10-11-10-10	nan an
٩C											represent				
						c locati			iy not	repre	sent				
	OUND SU	RFAC	E TO	·	F	T. U	SED			CASIN	-		SING TO	FT. HOLE NO.	B-16
											V = VANE T	EST		C = COARSE	
)r = Weig = Split t										00			M = MEDIUM	
											20 - 35% A	ND =35 - 50	1%	F = FINE	

	SOII 90		STI NOV			۶.	CLIEN		ne	NALC NO	hitects & E	.nymeers		SHEET_1_O HOLE NO.	г <u></u> B-17
			D, C				PROJI	ECT NO).		G211-167	1-20			
		•	3) 26				PROJI	ECT NA	ME		ormer St			BORING LOCATIONS	
	N REMAN - I		4) 94	16-48	50		LOCA				arochial S		awrence St	per Plan	
	JK/eq	URILL	.ER				LUCA	TION	۷d		Yonkers.		awrence St		
_	PECTOR						[CASING	SAMPLER	CORE BAR	OFFSET	
							Į	TYPE			HSA	SS*		DATE START	12/18/2
	OUND WA					6		SIZE I			4 ¼"	1 3/8"		DATE FINISH	12/18/2
-	<u>12'</u> FT /				S							<u>140#</u> 30"	BIT	SURFACE ELEV.	El. ±8'
<u> </u>	FTAF	IER_				****		HAMN	MER FA	<u></u>		30		GROUND WATER ELEV.	El. ±69
			<u>د</u>	Sami I		r					DEMOITY	OTDATA		IFICATION OF SOIL REM	MARKS IN
н П	CASING BLOWS PER	NO	Туре	PEN	REC	DEPTH	ON (FOR		ler Tube)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH	1	OSS OF WASH WATER, ROCK, ETC.	
	FOOT		ļ			@ BOT		6 - 12	12- 10	(MIN)	MOIST	ELEV			
-		1	SS	24"	10"	2'0"	16 9	11 7		 	dry compact		BlkBrn FMC SAND), lit silt	
		2	ss	24"	8	4'0"	11	7		<u> </u>	dry		Brn FM SAND, lit	silt	
						ļ	5	4			compact				
5		3	SS	24"	14"	6'0"	3	4 16	-		dry		LtBrn F SAND, lit	M sand, tr VF sand	
		4	SS	24"	16"	8'0"	5 11	8		+	loose dry		LtBrn VFF SAND		
							9	6			compact				
10		5	SS	24"	20"	10'0"	9 9	11 12	 	 	dry		LtBrn VFF SAND,	lit F gravel	
IU		6	SS	24"	21"	12'0"	9	9	┢───		compact moist		Brn F SAND, sm \	/F sand	
			ļ	İ	ļ		10	11		ļ	compact				
					 		 	 		<u> </u>	4				
15							<u> </u>	<u> </u>		<u> </u>]				
		7	SS	24"	11"	17'0"	1	2			wet		Brn F SAND, lit M	sand, tr VF sand	
							3	4	<u> </u>	<u> </u>	loose				
20					0.0"	0010"	4		·	<u> </u>		,		Moond lit VE and	Ŧ
		8	SS	24"	23"	22'0"	4	6 10			wet compact		Grey F SAND, SM	M sand, lit VF sand	
											Compoor				
								ļ							
25	672007007000000000000000000000000000000	9	SS	24"	12"	27'0"	3	4		<u> </u>	wet		Grey FM SAND		
							7	9			compact	27'0"			
					ļ			ļ	<u> </u>						
30					<u> </u>			 	<u> </u>	 				E.O.B 27'0"	
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R	OUND SU	RFAC	E TO		F	T. U	SED			CASIN	G THEN		SING TO	FT. HOLE NO.	. B-17
/ =	AUGER R = WEIG	UP =	UND	STUF	RBED	PISTON		T = TF	INWAL	L.	V = VANE 1	EST		C = COARSE	
vU SS	R = WEIG = SPLIT T	UBE	SAMF	PLER		H.S.A. =	HOLL	.OW ST	EM AU	IGER				M = MEDIUM	
											20 - 35% A	ND =35 - 50	1%	F = FINE	

HOLE NO. B-1 BORING LOCATIONS per Plan BORING LOCATIONS BAR OFFSET DATE START 1/4/21 DATE FINISH 1/4/21 SURFACE ELEV. El. ±7 GROUND WATER ELEV. El. ±7 DENTIFICATION OF SOIL REMARKS IN OR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC. D, sm silt, tr F gravel, tr brick D, str F gravel, tr brick (fill) D
per Plan St BAR OFFSET DATE START 1/4/21 DATE FINISH 1/4/21 SURFACE ELEV. El. ±7 GROUND WATER ELEV. El. ±6 DENTIFICATION OF SOIL REMARKS IN OR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC. D, sm silt, tr F gravel, tr brick D, str F gravel, tr brick (fill)
St BAR OFFSET DATE START 1/4/21 DATE FINISH 1/4/21 SURFACE ELEV. El. ±7 GROUND WATER ELEV. El. ±6 DENTIFICATION OF SOIL REMARKS IN DR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC. D, sm silt, tr F gravel, tr brick D, str F gravel, tr brick (fill)
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DATE START 1/4/21 DATE FINISH 1/4/21 SURFACE ELEV. EI. ±7 GROUND WATER ELEV. EI. ±6 DENTIFICATION OF SOIL REMARKS IN OR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC.
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GROUND WATER ELEV. EI. ±6 DENTIFICATION OF SOIL REMARKS IN DR, LOSS OF WASH WATER, SEAMS IN ROCK, ETC. D, sm silt, tr F gravel, tr brick D, str F gravel, tr brick (fill)
DENTIFICATION OF SOIL REMARKS IN DR, LOSS OF WASH WATER, SEAMS II ROCK, ETC. D, sm silt, tr F gravel, tr brick D, str F gravel, tr brick (fill)
DR, LOSS OF WASH WATER, SEAMS II ROCK, ETC. D, sm silt, tr F gravel, tr brick D, str F gravel, tr brick (fill)
DR, LOSS OF WASH WATER, SEAMS II ROCK, ETC. D, sm silt, tr F gravel, tr brick D, str F gravel, tr brick (fill)
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			NOV								0044 407	4.00		HOLE NO.	B-19	
			RD, C				[G211-167					
		•	3) 20 4) 94				PROJI	ECT NA	ME		[:] ormer St arochial S			BORING LOCATIONS per Plan		
FO	REMAN -						LOCA	TION	Va				awrence St	perrian		
	MK/ao										Yonkers,				· · · · · · · · · · · · · · · · · · ·	
INS	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET		
								TYPE			HSA	SS*		DATE START	1/4/21	
	OUND W					3		SIZE I			4 1⁄4"	1 3/8"		DATE FINISH	1/4/21	
1 7	<u>10'</u> FT				RS		HAMMER WT.					<u>140#</u> 30"	BIT	SURFACE ELEV.	El. ±79.1	
	FTAF						ļ	HAMN	IER FA	L.L.		30		GROUND WATER ELEV.	El. ±69.1	
			, T	SAM T	PLE T	1	-									
г	CASING							WS PEF		CORE	DENSITY OR	STRATA CHANGE	FIELD IDENTIFICATION OF SOIL REMARKS I COLOR, LOSS OF WASH WATER, SEAMS			
L L L	BLOWS		Туре	PEN	REC			SAMP CE ON		TIME PER	CONSIST	DEPTH		ROCK, ETC.		
	PER FOOT					DEPTH		6 - 12		FT	MOIST	ELEV				
	-001	1	SS	24"	14"	@ BOT 2'0"	1	2	<u> </u>	(MIN)	moist	ELEV	6" Topsoil	un an an an an an an an an an an an an an		
		<u> </u>	1	<u> </u>	╎╵		3	6	<u> </u>	1	loose		Brn F SAND, tr F g	Iravel		
		2	SS	24"	12"	4'0"	8	5			moist		Brn F SAND, lit F			
			 		0.01	0101	4	4		ļ	loose					
5	WANTER WATCH COLOURA	3	SS	24"	20"	6'0"	5 12	6 12			moist compact		GreyBrn F SAND			
		4	SS	24"	16"	8'0"	18	13	 		moist		Brn F SAND			
				1			12	13			compact					
		5	SS	24"	18"	10'0"	8	7	ļ	ļ	moist		SAME			
10		6		24"	16"	12'0"	7	6 5	-		compact wet		SAME			
		0	SS	24		120	5	6	<u> </u>	<u> </u>	loose		SAME			
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15						47108			ļ	<u> </u>			0.445			
		7	SS	24"	22"	17'0"	2	3		 	wet loose		SAME			
				<u> </u>	<u>†</u>		<u> </u>			<u> </u>	10000					
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		8	SS	24"	20"	22'0"	4 14	10 14			wet compact		SAME			
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		9	SS	24"	22"	27'0"	3	5 11			wet loose	27'0"	SAME			
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L	con	ditio	ons a	t oth	ner lo	cation	s or ti	mes.	-	- chie:	50110					
	DUND SU	RFAC	E TO		F	T. U	SED				G THEN		SING TO	FT. HOLE NO.	B-19	
	AUGER R = WEIG					PISTON WOH = 1			INWAL AMMEI		V = VANE T DS	EST		C = COARSE		
	= SPLIT T										- *			M = MEDIUM		
PRO	PORTIO	NS US	SED:	TRAC	CE = 0	- 10%	LITTLE	= 10 - 2	20% S	OME =	20 - 35% A	ND =35 - 50	%	F = FINE		

						CLIEN	T:	KC	&D Arc	chitects & E	ingineers		SHEET_1_0 HOLE NO.	******
90 DONOVAN RD. OXFORD, CT 06478							CT NC			G211-167	1-20			B-20
	T (20					PROJECT NO. G211-1671-20 PROJECT NAME Former St Denis							BORING LOCATIONS	
	IY (91					PROJECT NAME Former St Denis Parochial School						per Plan		
OREMAN ·					Weblick - 1-11 Proceedings	LOCA	FION	Va	n Cor	tlandt Par	k Ave & L	awrence St		
MK/ao										Yonkers	, NY			
ISPECTOF	२									CASING	SAMPLER	CORE BAR	OFFSET	
							TYPE			HSA	SS*		DATE START	1/4/21
ROUND W T_ <u>11'</u> FT					5		SIZE I	.D. IER WI	-	4 1⁄4"	<u>1 3/8"</u> 140#	BIT	_DATE FINISH SURFACE ELEV.	1/4/21 El. ±79
TFTA				0			2	IER FA			30"	DII	GROUND WATER ELEV.	EI. ±79
1	1		SAME						1	1		1		
					ľ	BLOWS PER 6 IN CORE				DENSITY	STRATA	FIELD IDENT	FIFICATION OF SOIL REN	ARKS INC
		Туре							CORE	OR	CHANGE	COLOR, L	OSS OF WASH WATER,	SEAMS IN
BLOWS	NO		PEN	N REC	DEPTH	(FOR(ON SAMPLER (FORCE ON TUBE)		PER	CONSIST	DEPTH		ROCK, ETC.	
FOOT					@ BOT	0-6	6 - 12	12- 18	FT (MIN)	MOIST	ELEV			
	1	SS	24"	16"	2'0"	1	3			moist		8" Topsoil; Brn F	SAND, tr F gravel (possible fill)	
 	2		24"	14"	4'0"	3	3		ļ	loose moist/wet		Dra E CAND INF	araval trailt (naanible fill)	
	<u> </u>	SS	24	14	40	<u>2</u> 3	2	<u> </u>		moist/wet		DITE SAND, ILE	gravel, tr silt (possible fill)	
5	3	SS	24"	20"	6'0"	11	5			moist		GreyBrn F SAND,	, tr F gravel	
			0.41		0101	5	6	ļ	L	loose				
	4	SS	_24"	18"	8'0"	8 12	9 12	<u> </u>		moist compact		Brn F SAND		
	5	SS	24"	16"	10'0"	10	14		<u> </u>	moist		Brn F SAND		
0						11	10	CONTRACTOR DATE		compact				
	6	SS	24"	17"	12'0"	<u>9</u> 7	8		<u> </u>	moist/wet		SAME		
	+						8			compact		****		
5			0.01	0.01	4.7708	~			ļ	z				
	7	SS	24"	22"	17'0"	3	4		<u> </u>	loose		SAME		
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	8	SS	24"	22"	22'0"	3	15		and the first state of the second	wet		SAME		
						14	12			compact				
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	9	SS	24"	24"	27'0"	4	3			wet		SAME		
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ROUND SI = AUGER							T = TH		CASIN	G THEN_ V = VANE 1		SING TO	_FT. HOLE NO.	B-20
OR = WEI	GHT O	F ROI	DS		WOH =	WEIGH	T OF H	AMME	R & RO				C = COARSE	
					H.S.A. =	HOLL	OW ST	EM AU	GFR				M = MEDIUM	

	SOI					` .	CLIEN	T:	KG	&D Arc	chitects & E	ngineers		SHEET_1_OF	
			NOV								0044 407	4 00		HOLE NO.	B-21
			D, C								G211-167 Former St				
			3) 26 4) 94				PROJ	ECT NA	AME.		arochial S			BORING LOCATIONS per Plan	
FO	REMAN -						LOCA	TION	Va				awrence St		
	MK/ao						 				Yonkers				
INS	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET	414/04
						~		TYPE	D		HSA 4 ¼"	SS* 1 3/8"		DATE START DATE FINISH	1/4/21 1/4/21
1	OUND WA					5		SIZE I HAMN	.D. 1ER WI	г.	4 /4	140#	BIT	SURFACE ELEV.	El. ±79.2
	FTAF								IER FA			30"		GROUND WATER ELEV.	El. ±69.2
		<u> </u>	5	SAM	PLE					Ι	1				
			1					NS PEI	R 6 IN	CORE	DENSITY	STRATA		IFICATION OF SOIL REM	
DEPTH	CASING BLOWS		Type	PEN	REC		ON	SAMP	LER	TIME	OR CONSIST	CHANGE DEPTH	COLOR, LO	OSS OF WASH WATER, 5 ROCK, ETC.	SEAMS IN
D	PER				1	DEPTH	1 .	CE ON 6 - 12	,	PER FT				noon, ero.	
	FOOT	4		0.41	4.01	@ BOT			12 10	(MIN)	MOIST	ELEV			
		1	SS	24"	12"	2'0"	1	3			moist loose		16° ropsoli; Bm F S	SAND, sm F gravel	
		2	SS	24"	14"	4'0"	4	6			moist		OrngBrn F SAND,	sm F gravel, tr silt	
-				0.4	0.08	0101	7	4	ļ	ļ	compact				
5		3	SS	24"	20"	6'0"	13 10	11 11	101220200000000000000000000000000000000		moist compact		OrngBrn F SAND		
		4	SS	24"	18"	8'0"	15	12			moist		SAME		
			ļ	0.48	405	4.0108	12	15	ļ	ļ	compact		D. FOAND		
10		5	SS	24"	18"	10'0"	10 6	6 7			moist compact		Brn F SAND		
		6	SS	24"	18"	12'0"	7	6			wet		SAME		
			ļ		ļ		6	4	ļ		compact				
						 			 						
15															
		7	SS	24"	16"	17'0"	2	4		ļ	wet		SAME		
					<u> </u>		4	6	 	<u> </u>	loose				
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		8	SS	24"	20"	22'0"	3 12	9 16	<u> </u>	<u> </u>	wet compact		SAME		
05															
25		9	SS	24"	20"	27'0"	4	4			wet		SAME		
							6	9			loose	27'0"			
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	OUND SU AUGER							T = TH	INWAL	CASIN	G THEN_ V = VANE 1		SING TO	FT. HOLE NO.	B-21
wo	R = WEIG	HT O	F ROI	DS		WOH =	WEIGH	T OF H	IAMME	R & RO				C = COARSE	
	= SPLIT T OPORTIO										20 - 35% A	ND =35 - 50	1%	M = MEDIUM F = FINE	
					~										

	SOI					× /.	CLIEN	T:	KG	&D Arc	chitects & E	Ingineers		SHEET_1_OF	
			NOV				<u> </u>					4 00		HOLE NO.	B-22
			RD, C					ECT NO			G211-167 ormer St				
		•	3) 26 4) 94				PROJI	ECT NA	AME:	-	arochial S			BORING LOCATIONS per Plan	
FO	REMAN -						LOCA	TION	Va				awrence St	porrian	
	MK/ao								*****		Yonkers	, NY			
INS	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET	
								TYPE			HSA	SS*		DATE START	1/6/21
1	OUND W/ 10' FT					6		SIZE I		-	4 1⁄4"	<u> </u>	BIT	DATE FINISH SURFACE ELEV.	1/6/21 El. ±80.4
1 7	FTAF	× .			0				1ER WI 1ER FA			30"	Dil	GROUND WATER ELÉV.	EI. ±00.4 EI. ±70.4
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			т_`		T	1			~ ~		DENSITY	STRATA	FIELD IDENT	FICATION OF SOIL REM	ARKS INCL.
E	CASING						•	NS PEF		CORE	OR	CHANGE	COLOR, LO	OSS OF WASH WATER, S	SEAMS IN
DEPTH	BLOWS PER	NO	Туре	PEN	REC	DEPTH	(FOR	CE ON	TUBE)	PER FT	CONSIST	DEPTH		ROCK, ETC.	
	FOOT					@ BOT	0-6	6 - 12	12- 18	(MIN)	MOIST	ELEV			
		1	SS	24"	14"	2'0"	1	3		ļ	moist		6" Topsoil; Brn F S	SAND	
		2	SS	24"	16"	4'0"	3	4	 	<u> </u>	loose moist		SAME		
		<u> </u>	33	24	10	40	6	4	<u> </u>		compact		10AML		
5		3	SS	24"	18"	6'0"	5	6			moist		Brn FMC SAND, s	m F gravel	
		<u> </u>		0.41	4.01	010#	10	10 15	 	ļ	compact		D. FOAND		
		4	SS	24"	16"	8'0"	12 15	13			moist compact		Brn F SAND		
		5	SS	24"	20*	10'0"	5	8			moist		SAME		
10					1.011		8	10	-		compact				
		6	SS	24"	18"	12'0"	10 5	6 5			wet compact		SAME		
									<u> </u>		compact				
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		7	SS	24"	22"	17'0"	2	2 5			l wet loose		SAME		
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20		8	SS	24"	24"	22'0"	4	5			wet		SAME		`
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						c locations			iy not	repre	sent				
	OUND SU	RFAC	E TO		F	T. US	SED			CASIN			SING TO	FT. HOLE NO.	B-22
	AUGER R = WEIG					PISTON WOH = 1			IINWAL AMMEI		V = VANE T DS	EST		C = COARSE	
	= SPLIT T					H.S.A. =					- ~			M = MEDIUM	
PR	OPORTIO	NS US	SED:	TRAC	CE = 0	- 10%	LITTLE	= 10 - 2	20% S	OME =	20 - 35% A	ND =35 - 50	1%	F = FINE	

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			D, C				PRO.I	ECT NO)		G211-167	1-20		HOLE NO.	B-23
			3) 26				[ECT NA		F	ormer St			BORING LOCATIONS	
		•	4) 94							Р	arochial S	ichool		per Plan	
0	REMAN -	DRILI	ER				LOCA	TION	Va	n Cor			awrence St		
	MK/ao PECTOR	*****						d i er er faller after milderer			Yonkers, CASING	SAMPLER	CORE BAR	OFFSET	
υO	FEUIOR							TYPE			HSA	SAMPLER SS*	CORE BAR	DATE START	1/5/21
R	OUND W	ATER	OBSE	RVA	LIONS	3		SIZE	.D.		4 1/4"	1 3/8"		DATE FINISH	1/5/21
	10' FT							HAMM	IER WI	-		140#	BIT	SURFACE ELEV.	El. ±78
Τ_	FT_AF	TER_	_HO	URS			<u> </u>	HAMN	IER FA	LL.		30"	·······	GROUND WATER ELEV.	El. ±68
			5	SAMI	PLE					1			1		
- - - - - - - - - - - - - - - - - - -	CASING BLOWS PER FOOT		Туре	PEN	REC.	DEPTH @ BOT	ON (FOR	NS PEF SAMPI CE ON 6 - 12	LER TUBE)	CORE TIME PER FT (MIN)	DENSITY OR CONSIST MOIST	STRATA CHANGE DEPTH ELEV	1	TFICATION OF SOIL REM OSS OF WASH WATER, S ROCK, ETC.	
	1001	1	SS	24"	4"	2'0"	1	2	r		moist		4" Topsoil	алык саништануу актор калары жара калары калары жана калары жарарада жарара жарара жарара жарара жарара жарара Жана сани жана калары калары калары калары калары калары калары калары калары калары калары калары калары калары	
							5	4	İ	[loose		Brn F SAND, sm s	silt (possible fill)	
	ļ	2	SS	24"	3"	4'0"	1 3	<u>3</u> 3		<u> </u>	moist	4'0"	SAME		
5		3	SS	24"	18"	6'0"	 5	5 5			loose moist	40	GreyBrn F SAND	*********	
							5	7			loose		-		
		4	SS	24"	18"	8'0"	12 10	10 11			moist		Brn F SAND		
		5	SS	24"	16"	10'0"	5	6			compact moist		SAME		
0	Selection of Contractors and						6	5			compact				
		6	SS	24"	14"	12'0"	6 5	<u>5</u> 5			wet loose		SAME		
							5				10056				
5		7	SS	24"	18"	17'0"	3	3			wet		SAME		
		<u> </u>	- 33		10	110	4	6			loose		SAME.		
20								1							4
	**	8	SS	24"	24"	22'0"	4	5			wet		SAME		
							10	13			compact				
25															
		9	SS	24"	24"	27'0"	4 7	5			wet	07101	SAME		
							7	7			compact	27'0"		nan an tao an tao an tao an tao an tao an tao an tao an tao an tao an tao an tao an tao an tao an tao an tao an	
														E.O.B 27'0"	
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35															
^{''}	201420-21224112000012-2014		economic to serve		undersche Willichungsmeth	an frian tha (an an an an an an an an an an an an an a	danang kang kang kang kang kang kang kang		57/000007/10707/07						
													* SAF	ETY HAMMER CATHEAD & RC)PF
10															
0	con	ditio	ns a	t spe	cific	locatio	ons ar	nd ma			represent sent			nen en versen filmen kannan en en en en en en en en en en en en en	***********************************
R	CON DUND SU	RFAC	E TO	t oth	er lo F	cations	s or til SED	nes.		CASIN	G THEN_	CAS	SING TO	FT. HOLE NO.	B-23
=	AUGER	UP =	UND	STUR	BED	PISTON		T = TH	INWAL	L	V = VANE T		· · · · · · · · · · · · · · · · · · ·		
	r = Weig = Split t					WOH = V					DS .			C = COARSE M = MEDIUM	
											20-35% A	ND =35 - 50	%	F = FINE	

											0044 44-	4 00		HOLE NO.	B-2
			-	T 06			I				G211-167				
				62-93 46-48			PROT	ECT NA	ME		ormer St arochial S			BORING LOCATIONS per Plan	
FO	REMAN - I			10 -10			LOCA	TION	Va	*******			awrence St	porrian	
	MK/ao										Yonkers				
INS	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET	
								TYPE			HSA	SS*		DATE START	1/5/21
	OUND WA					5		SIZE I			4 1⁄4"	1 3/8"	English and the second s	DATE FINISH	1/5/21
_	<u>10'</u> FT /				S				1ER WT 1ER FAI			<u>140#</u> 30"	BIT	SURFACE ELEV. GROUND WATER ELEV.	El. ±7 El. ±6
<u></u>							ļ	C1/-QVIIV			1		T	GROOND WATER ELEV.	
				Sami I		r	{				DENCITY	OTDATA		FICATION OF SOIL REN	
DEPTH	CASING BLOWS PER	NO	Туре	PEN	REC	DEPTH	ON (FOR	VS PEI SAMP CE ON		CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH		SSS OF WASH WATER, ROCK, ETC.	
	FOOT				<u> </u>	@ BOT		~~~~	12- 10	(MIN)	MOIST	ELEV			
		1	SS	24"	14"	2'0"	1	3 9		<u> </u>	moist loose		6" Topsoil; Brn FM	I SAND, tr F gravel, concrete	
		2	SS	24"	0"	4'0"	4	2	<u> </u>		moist		No recovery (fill)		
							1	1	<u> </u>	[v loose				
5		3	SS	24"	4"	6'0"	3	3 12	<u> </u>		moist	5'0"		an an an tha an an an an an an an an an an an an an	
		4	SS	24"	16"	8'0"	17	12			loose moist		Grey F SAND, lit F	C gravel	
							13	15			compact				
10		5	SS	24"	16"	10'0"	13	11			moist		Brn F SAND		
10	SORD-SORD STATUS TO AND A SUB	6	SS	24"	20"	12'0"	9	9 6	<u> </u>		compact wet		SAME		
							6	5			compact				
									ļ						
15			<u> </u>		ļ										
i J		7	SS	24"	24*	17'0"	3	2	<u> </u>		wet		SAME		
							3	5			loose				
20				e.				1				c		ž	*
		8	SS	24"	24"	22'0"		4		and a state of the	wet		SAME		
							4	6			loose				
25	111100010000000000000000000000000000000		and an array of the												
		9	SS	24"	22"	27'0"	5	7			wet	07101	SAME		
							7	9			compact	27'0"			ka menangan kana kan
														E.O.B 27'0"	
30	A DO DA DA DA DA DA DA DA DA DA DA DA DA DA				ana ana ana ana ana ana ana ana ana ana		anneereen		ļ						
35					*****			-		***					
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40 NO				ditio	ne r	ovoalor	1 hu +	nie im	L	ation	represent	a posta de la contra da de la contra da de la contra da de la contra da de la contra da de la contra da de la c			
NU.						evealed									
	con	ditio	ns a	t oth	er lo	cation	s or ti	mes.	-	•			0.000 7.0		
	OUND SU								IINWAL	•	G THEN		SING TO	FT. HOLE NO.	B-2
wo	R = WEIG	HT O	F ROI	DS		WOH =	WEIGH	T OF H	AMME	R & ROI				C = COARSE	
00	- CDI IT T					H.S.A. =	HOLL	OW ST	EM AU	GER				M = MEDIUM	

	SOI	LTE	STI	NG,	INC).	CLIEN	T:	KG	S&D Arc	hitects & E	ngineers		SHEET_1_OF	=
				'AN F										HOLE NO.	B-25
				T 06			PROJI				G211-167				
		•	•	62-93 46-48			PROJI	ECT NA	AME		[:] ormer St arochial S			BORING LOCATIONS per Plan	
FO	REMAN -			40-40	550		LOCA	TION	Va				awrence St	perrian	
	MK/ao										Yonkers				***
INS	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET	
								TYPE			HSA	SS*		DATE START	1/6/21
						S		SIZE I		r.	4 1/4"	1 3/8"	DIT	DATE FINISH	1/6/21
-	<u>12'</u> FT / FT AF				S	¢			∕IER W IER FA	1		<u>140#</u> 30"	BIT	SURFACE ELEV. GROUND WATER ELEV.	El. ±80.4 El. ±68.4
	<u></u>	<u>1 = / (</u> T		SAM						1	1		1		
			<u>,</u>	T	T	T					DENSITY	STRATA	FIELD IDENT	IFICATION OF SOIL REM	ARKS INCL
Ţ	CASING							NS PEI SAMP		CORE	OR	CHANGE	COLOR, LO	DSS OF WASH WATER, S	SEAMS IN
DEPTH	BLOWS PER	NO	Туре	PEN	REC	DEPTH	(FOR	CE ON	TUBE)	PER	CONSIST	DEPTH		ROCK, ETC.	
	FOOT					@ BOT	0-6	6 - 12	12- 18	FT (MIN)	MOIST	ELEV			
		1	SS	24"	16"	2'0"	1	2			moist		6" Topsoil; Brn F S	AND, sm silt	
		<u> </u>		0.41	4 4 11	4108	3	2	ļ	_	loose				
		2	SS	24"	14"	4'0"	6	17 7			moist compact		Brn F SAND, tr silt		
5		3	SS	24"	20"	6'0"	6	10			moist		Brn F SAND		
							12	13			compact				
		4	SS	24"	18"	8'0"	14 9	10 9	<u> </u>	<u> </u>	moist compact		SAME		
		5	ss	24"	16"	10'0"	7	9			moist		SAME		
10			ļ	1			8	10			compact				
		6	ss	24"	16"	12'0"	<u>11</u> 8	9 8		<u> </u>	moist		SAME		
			┼──				<u> </u>	0			compact				
]				
15			Ļ		0.01	1710				-			0.005		
		7	SS	24"	22"	17'0"	2	2	╂	<u> </u>	wet v loose		SAME		
							<u> </u>		1	1					
					ļ				ļ						
20	eane and a sub-	8	SS	24"	24"	22'0"	3	3		-	wet		SAME	Ŷ	
		\vdash	33	- 24	24	22.0	4	7	<u> </u>	1	loose		Or WILL		
								[1	1					
25									ļ	 					
20		9	ss	24"	24"	27'0"	2	2		+	wet		SAME		
							3	4			loose	27'0"			1
			ļ	ļ	ļ	ļ			ļ	ļ				E.O.B 27'0"	
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35															
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		 							<u> </u>				* SAF	ETY HAMMER CATHEAD & RO	DPE
40									L	1]				RIGER/Reporting with a solution
NC											represent	t			
						c locati			ay not	repre	sent				
	OUND SU	RFAC	CE TO)		-T. U	SED			CASIN	G THEN		SING TO	FT. HOLE NO.	B-25
	AUGER R = WEIG								HNWAL		V = VANE 1	rest		C = COARSE	
	= SPLIT T										00			M = MEDIUM	
											20 - 35% A	ND =35 - 50)%	F = FINE	

	SOI			NG, 'AN F			CLIEN	T:	KG	6&D Arc	chitects & E	ngineers			SHEET_1_0 HOLE NO.	
				AN 6				ECT NO	<u></u>		G211-167	1-20		1	HULE NU.	B-26
				62-93			l				ormer St			PODIN	G LOCATIONS	
		•		46-48			PROJ	ECT INP	NVIE.		arochial S			BORING	per Plan	
0	REMAN -		~~~~	10 10			LOCA	TION	Va				awrence St		porrian	
	MK/ao/										Yonkers			 		
NS	PECTOR										CASING	SAMPLER	CORE BAR	OFFSE	Т	
								TYPE			NW	SS*		DATE S	TART	1/6/21
SR	OUND WA	ATER	OBSE	ERVA	TIONS	S		SIZE I	.D.		3"	1 3/8"		DATE F	INISH	1/7/21
۲ <u>.</u>	<u>10'</u> FT	AFTE	R_0_H	HOUR	RS			HAMN	IER WI	r.	300"	140#	BIT	SURFA	CE ELEV.	El. ±79.
Τ_	FT · AF	TER_	но	URS		ł	ļ	HAMN	IER FA	LL	24"	30"		GROUN	ID WATER ELEV.	El. ±69.
				SAM	PLE	·····				Τ						
							BLO	NS PEF	R 6 IN	CORE	DENSITY	STRATA	1		ON OF SOIL REM	
	CASING BLOWS		Type	PEN	REC		ON	SAMP	LER	TIME	OR CONSIST	CHANGE DEPTH	COLOR, LO		WASH WATER, OCK, ETC.	SEAMS IN
Ē	PER		1,900	1 - 1		DEPTH		CE ON 6 - 12		PER FT	000001	DEPTH		1.0	JON, L 10.	
	FOOT					@ BOT	0-6		12- 18	(MIN)	MOIST	ELEV				
		1	SS	24"	14"	2'0"	1	2	ļ		moist		10" Topsoil			
		2	SS	24"	12"	4'0"	5	4			loose moist		Brn F SAND, lit F Brn F SAND, sm s			
		<u> </u>	- 33	24	12		3	3		<u> </u>	loose			nir (þóssir		
5		3	SS	24"	16"	6'0"	3	10			moist		DkBrn F SAND			
							9	9		[compact					
	L	4	SS	24"	14"	8'0"	11	13	ļ	 	moist		Brn F SAND			
		5	SS	24"	14"	10'0"	<u>13</u> 7	15 7			compact moist		SAME			
10			- 33	24	14	100	10	8		<u> </u>	compact		SAME			
		6	SS	24"	18"	12'0"	6	7			wet		SAME			
							7	6			compact					
				ļ		 										
15																
10	047/1/00/07020/ASD	7	SS	24"	24"	17'0"	2	2	*****		wet		SAME			
		· · · · ·					2	3			v loose					
20									 							
20		8	SS	24"	22*	22'0"	3	3		Carlos contractores and	wet		SAME			
		,					3	4			loose			e		•
									L	L						
25		9	00	24"	24"	27'0"	4	4			wot		SAME			
		9	SS	24	24	210	4 8	4 8			wet compact		SAWE			
											Compare					
]					
30		40		0.48	0.1	0.0105			L							
		10	SS	24"	0"	32'0"	<u>8</u> 6	6 7			wet compact		No recovery			
							0	/			Compace					
35		90599992996					-									
		11	SS	24"	12"	37'0"	8	5		ļ	wet		Brn F SAND			
							7	9			compact					
10																
10											represent					
						c locat				t repr	esent					
R	COR CUND SU					ocatior				CASING	G THEN	CAS	ING TO	- т.	HOLE NO.	B-26
	AUGER								INWAL		V = VANE T					
	R = WEIG					WOH = 1					DS			C = CO/		
	= SPLIT T					H.S.A. =					20 - 35% AI	VD = 35 = 50	V.	M = MEI F = FINE		
						1070 1		10-2					· · · · · · · · · · · · · · · · · · ·	1 I II VL	-	

	SOII 90			-		è.	CLIEN	IT:	KC	&D Arc	chitects & E	ngineers		SHEET_2_OI HOLE NO.	F <u>2</u> B-26
		FOR					PRO.I	ECT NO).	1011111111111111	G211-167	1-20		1	<u>,</u> ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,
		۲ (20						ECT NA		F	ormer St			BORING LOCATIONS	
		(91	,								arochial S			per Plan	
OF	REMAN -	DRILL	ER				LOCA	TION	Va	n Cor	tlandt Par	k Ave & l	awrence St		
	MK/ao/										Yonkers,			-	
NS	PECTOR						Children and a second				CASING	SAMPLER	CORE BAR	OFFSET	
								TYPE			<u></u> NW			DATE START	1/6/21
	OUND WA <u>10'</u> FT ル					5		SIZE I	.D. IER WI	_	<u> </u>	<u>1 3/8"</u> 140#	BIT	DATE FINISH SURFACE ELEV.	1/7/21 El. ±79.
	FTAF						1		IER FA		24"	30"	DII	GROUND WATER ELEV.	El. ±69.
				SAM			 			 T			1		
						T					DENSITY	STRATA	FIFI D IDENT	FICATION OF SOIL REN	ARKS INC
EPT	CASING BLOWS PER	NO	Туре	PEN	REC	DEPTH	ON (FOR	WS PEI I SAMP CE ON	LER TUBE)	CORE TIME PER FT	OR CONSIST	CHANGE		SSS OF WASH WATER, ROCK, ETC.	
- 1	FOOT					@ BOT	0~6	6 - 12	12- 18	(MIN)	MOIST	ELEV			
		12	SS	24"	14"	42'0"	7	7	ļ	[wet		Brn F SAND		
	······				 	<u> </u>	6	11			compact				
		i			 	<u> </u>	<u> </u>	<u> </u>	<u> </u>		1				
15						<u> </u>		L	Ļ						
		13	SS	24"	16"	47'0"	7	8		ļ	wet		Brn F SAND		
							10	10			compact				
					<u> </u>						1				
50															
		14	SS	24"	14"	52'0"	7	7	ļ	ļ	-		SAME		
						ļ	9	10		 	-				
55	é na se a constante a constante a constante a constante a constante a constante a constante a constante a const														
		15	SS	24"	16"	57'0"	8	7			wet		SAME		
							9	11			compact				
60				-											
		16	SS	24"	14"	62'0*	7	7			wet compact		Brn F SAND	*	
							0	10							
65	nt-5-14-6-14-6-14-6-14-6-14-6-14-6-14-6-14		and and a second second												
		17	SS	24"	24"	67'0"	9 15	15 21			wet compact	67'0"	SAME		
							- 10				Compact	010		22272799999999999999999999999999999999	
Ì								[[E.O.B 67'0"	
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75		A VIET WALK		*****							-				
									 				* SAF	ETY HAMMER CATHEAD & RO	OPE
ŀ						l		<u></u>] [
30	T. 0				and the second second second	L		1						na na sana ang kana kalang kana kana kana kana kana kana kana k	124000-14000-14000-1400-1400-1400
٥v	cor	nditio	ons a	at sp	ecifi	c locat	ions a	and m	iay no		represent esent	I			
RC	COR DUND SU					ocatioi				CASIN	G THEN	CAS	SING TO	FT. HOLE NO.	B-26
. = ,	AUGER	UP =	UNDI	STUF	RBED	PISTON		T = TH	IINWAL	L	V = VANET			Lances and the same second second	
/0	R = WEIG					WOH =					DS			C = COARSE M = MEDIUM	
0		1 IHH - '	$\sim \alpha \wedge a \nu$	1 HH H		H.S.A. =	HUNI	UVV SE	r™ AU	- H				M = M(t-1)H(0)A	

OXI CT		NUL IN		on		1	T:	NG	i&D Arc	chitects & E	ngineers		SHEET_1_OF HOLE NO.	
СТ	FOP		AN F T 06				ECT NO)		G211-167	1-20			B-27
		3) 26				l	ECT NA		F	Former St		uir, ia di neb trainmente brainesse	BORING LOCATIONS	
IN Y	•	4) 94				111001	_0110	11725		arochial S			per Plan	
OREMAN - D						LOCA	TION	Va	n Cor	tlandt Par	k Ave & L	awrence St	1	
MK/ao						ļ				Yonkers,				
NSPECTOR										CASING	SAMPLER	CORE BAR	OFFSET	
						Į	TYPE	_		HSA	SS*		DATE START	1/5/21
GROUND WA AT <u>10'</u> FT A					6		SIZE I	.D. IER WI	-	4 1/4"	<u>1 3/8"</u> 140#	BIT	DATE FINISH SURFACE ELEV.	1/5/21 El. ±78.9
T_FT AFT				0	1			IER FA	-		30"		GROUND WATER ELEV.	El. ±68.
T		ç	SAMI			[1	1		1		
H CASING BLOWS PER	NO			REC.	DEPTH	ON (FOR	WS PEI SAMPI CE ON 6 - 12	LER TUBE)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH		TFICATION OF SOIL REM OSS OF WASH WATER, S ROCK, ETC.	
FOOT			0.11	4.01	@ BOT	0-0		12- 10	(MIN)	MOIST	ELEV			
	1	SS	24"	12"	2'0"	1	2	 	 	moist loose		10" Topsoil; Brn F S	SAND, sm F gravel	
	2	SS	24"	14"	4'0"	2	4	<u> </u>		moist		LtBrn F SAND, lit s	silt, lit gravel	
						4	5	[[loose			-	
5	3	SS	24"	16"	6'0"	6 7	6 8			moist		Brn F SAND		
	4	SS	24"	18"	8'0"	11	12			compact moist		LtBrn F SAND		
						11	11			compact				
10	5	SS	24"	20"	10'0"	6	8		ļ	moist		Brn F SAND		
10	6	SS	24"	18"	12'0"	7 5	6 7			compact wet		SAME		
			<u> </u>	-10	120	7	5	<u> </u>		compact		C/ WILL		
15														
10	7	SS	24"	22"	17'0"	3	3					SAME		
						4	4							
20						· · ·						v		
	8	SS	24"	24"	22'0"	4	6	1007034KN012022		wet		SAME		
						6	7			compact				
										-				
25										1				
	9	SS	24"	22"	27'0"	6	4			wet		SAME		
						4	4			loose	27'0"			a contrementation and
													E.O.B 27'0"	
30					******			-	-					
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+														
												* SAF	ETY HAMMER CATHEAD & ROP	ΡĒ
	soil	con ns at	ditio t spe	cific	locati	ons ar	nd ma	/estig y not	ation repres	represent sent	an a fan a fan de fan de fan de fan de fan de fan de fan de fan de fan de fan de fan de fan de fan de fan de fa	J.	nan an an an an an an an an an an an an	isticki prizvi kontra prizven oversi skol poželj
							200							
IOTE: Sub cond cond	ditio	ns a	t oth		cations		nes.		CASIN					60 D
IOTE: Sub conc conc ROUND SUF	ditio RFAC	ns a E TO	t oth	F	T. US	SED		INWAL	CASING	G THEN_ V = VANE T		SING TO	FT. HOLE NO.	B-27
IOTE: Sub cond cond	ditio RFAC UP = HT OI	ns a E TO UNDI F ROE	t oth STUR	F BED I	T. US	SED	T = TH T OF H	INWAL AMMEF	L R & ROI	V = VANE T		SING TO	FT. HOLE NO. C = COARSE M = MEDIUM	B-27

	SOI			-		2.	CLIEN	IT:	KO	6&D Arc	chitects & E	ngineers		SHEET 1 OF	
			NOV D, C				DPO "	ECT NO			G211-167	1-20		HOLE NO.	B-28
			(D, C 3) 2€				l			F	GZTI-16/			BORING LOCATIONS	
			4) 94				11031	201107			arochial S			per Plan	
OF	REMAN -						LOCA ⁻	TION	Va				awrence St		
_	MK/ao						L				Yonkers,	NY			
٩S	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET	
								TYPE			HSA	SS*		DATE START	1/5/21
	JUND WA					S		SIZE I		-	4 1/4"	1 3/8"	רוד		1/5/21
11	<u>10'</u> FT /								1er Wi 1er Fa			<u>140#</u> 30"	BIT	SURFACE ELEV. GROUND WATER ELEV.	El. ±79 El. ±69
				SAMI			 	10 000		T	1 1		1		□±00.
			<u> </u>		T	1					DENSITY	STRATA		FIFICATION OF SOIL REN	ARKS INC
Ē	CASING BLOWS PER		Туре	PEN	REC	DEPTH	ON (FOR	NS PEI SAMP CE ON 6 - 12	ler Tube)	CORE TIME PER FT	OR CONSIST	CHANGE		OSS OF WASH WATER, S ROCK, ETC.	
_	FOOT		ļ		L	@ BOT	0-0	v	12- 10	(MIN)	MOIST	ELEV			
		1	SS	24"	14"	2'0"	1	1 5			moist v loose		6" Topsoil; Brn F \$	SAND, tr F gravel	
		2	SS	24"	10"	4'0"	$\frac{3}{3}$	2	 	<u> </u>	moist		Brn F SAND, tr gr	avel, tr brick (fill)	
							2	2			v loose		,,,	·····	
5		3	SS	24"	16"	6'0"	3	7	<u></u>		moist	4'6"	SAME		
		4	SS	24"	16"	8'0"	7	10 14	 	<u> </u>	compact moist		OrngBrn F SAND Brn F SAND		
		-7	- 33	27			14	15		<u> </u>	compact				
l		5	SS	24"	16"	10'0"	7	10			moist		SAME		
0	11.700.112.00.112.00.00.00.00	~		0.41	4.0"	4.0101	11	11	<u></u>	<u> </u>	compact		0.115		
		6	SS	24"	18"	12'0"	10	7			wet compact		SAME		
ł							<u> </u>	— <u> </u>	<u> </u>	†	oompuor				
									[
5		7		24"	22"	17'0"	5	4					CANE		
			SS	24	22		3	4 5	ļ	 	wet loose		SAME		
l											1				
					ļ				 						
20		8	22	24"	24"	22'0"	4	6		<u> </u>	wet		SAME	*	
ł				<u> </u>			6	5			compact		Of WILL		
									ļ						
5		9	SS	24"	24"	27'0"	4	6			wet		SAME		
ł		<u> </u>		- <u></u>			6	7			compact	27'0"	of the		
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	R = WEIG = SPLIT T					WOH = M					DS .				
											20 - 35% A	ND =35 - 50	1%	M = MEDIUM F = FINE	

	SOI					· ·	CLIEN	T:	KG	S&D Arc	chitects & E	ngineers		SHEET_1_OF	1
			NOV								0044 407	4.00		HOLE NO.	B-29
			(D, C (3) 26				l	ECT NO			G211-167 Former St				
		•	4) 94				PROJE	ECT NA	ME		arochial S			BORING LOCATIONS per Plan	
FOF	REMAN -						LOCA	TION	Va				awrence St	perrian	
	MK/ao										Yonkers,	, NY			
INSI	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET	
			000		TION			TYPE			HSA	<u>SS*</u>		DATE START	1/6/21
	DUND W/ 10' FT					0		SIZE I	.D. 1ER WI	r	4 1/4"	<u> 1 3/8" </u>	BIT	DATE FINISH SURFACE ELEV.	1/6/21 El. ±79.9
	FTAF				2				IER FA			30"		GROUND WATER ELEV.	El. ±69.9
Т		r	5	SAM	PLE					1	1				
DEPT	CASING BLOWS PER		Туре	PEN	REC	DEPTH	ON (FORC	WS PEF SAMPI CE ON 6 - 12	LER TUBE)	FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH		IFICATION OF SOIL REM DSS OF WASH WATER, S ROCK, ETC.	
\dashv	FOOT	1	SS	24"	14"	@ BOT 2'0"	2	3	r	(MIN)	MOIST	ELEV	6" Topooil: Pro E C	AND, tr F gravel, tr silt	
ŀ		1	33	24	<u>14</u>	<u> </u>	<u>2</u> 5	3	<u> </u>		moist loose			nino, u i gravel, u Sill	
ļ		2	SS	24"	8"	4'0"	2	2	ļ		moist		SAME		
5		3	SS	24"	20"	6'0"	2	4 5	 		v loose moist		OrngBrn F SAND		
Ť				2.'T	20		7	5		-	compact		Oligoni i SAND		
F		4	SS	24"	16"	8'0"	9	10		<u> </u>] moist		Brn F SAND		
ŀ		5	SS	24"	20"	10'0"	10 8	11 9	 	<u> </u>	compact moist		Brn F SAND		
oĽ		<u> </u>	00	27	20	100	10	11			compact		BITT OARD		
ſ		6	SS	24"	18"	12'0"	11	8			wet		SAME		
┞							9	8		<u> </u>	compact				
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10[10	TE: Sul)soil	con	ditio	ns r	evealer	l by th	nis inv	/estic	ation	represent	1025-1290-149-141-1-5-1490-1-4-5-04-	<u>L</u>		
	con con	ditio ditio	ns a ns a	t spe t oth	ecific er lo	locations	ons ar s or tir	nd ma	y not	repres	sent				
	UND SU	RFAC	E TO		F	T. US	SED			CASIN			SING TO	FT. HOLE NO.	B-29
	AUGER R = WEIG					PISTON WOH = \			INWAL AMMEF		V = VANE T DS	EST		C = COARSE	
S =	SPLIT T	UBE S	SAMP	LER		H.S.A. =	HOLLO	OW STI	EM AU	GER				M = MEDIUM	
RO	PORTIO	NS US	SED:	TRAC	E = 0	- 10% l	ITTLE :	= 10 - 2	20% S	OME =	20-35% A	ND =35 - 50	%	F = FINE	

	SOI					s. 7.	CLIEN	T:	KG	&D Arc	chitects & E	ingineers		SHEET_1_OF_ HOLE NO.	
		FOR						ECT NO)		G211-167	1-20			D-1
		Г (20						ECT NA		F	Former St			BORING LOCATIONS	
		((91									arochial S			per Plan	
	REMAN -	DRILL	ER.				LOCA	TION	Va	n Cor			awrence St		
_	JK/eq										Yonkers,	***************************************	0005 040	AFFORT	
12	PECTOR							TYPE			CASING HSA	SAMPLER SS	CORE BAR	OFFSET DATE START	12/21/20
R	DUND WA	TER	OBSE	RVA	TIONS			SIZE	D		2 1/2"	1 3/8"			12/21/20
	<u>12'</u> FT /					-			IER WI	-		140#	BIT	SURFACE ELEV.	El. ±80
T_	_FT_AF	TER_	HO	URS			L	HÁMN	IER FA	LL		30"		GROUND WATER ELEV.	Él. ±68
			5	Sami	PLE	****							1	*********	
	PER	NO	Туре	PEN	REC.	DEPTH	ON (FOR	WS PEI SAMPI CE ON 6 - 12	LER TUBE)	CORE TIME PER FT	DENSITY OR CONSIST	STRATA CHANGE DEPTH		TFICATION OF SOIL REMA OSS OF WASH WATER, SE ROCK, ETC.	
-	FOOT	1	SS	24"	16"	@ BOT 2'0"	1	2		(MIN)	MOIST moist	ELEV	Brn FM SAND, sm	silf, tr E gravel	
					Ĺ		2	2			v loose			v v · - ·	
									<u> </u>	 	4				
5										 					
ľ		2	SS	24"	22"	7'0"	6	9			dry		LtBrn F SAND, sm	n MC sand, tr F gravel, tr brick (fill)	
							12	18			compact	8'0"			
												00			
0	elan markana ana ana ana ana ana ana ana ana ana	_	****						[]				
		3	SS	24"	21"	12'0"	8	6			moist loose		LtBrnOrng F SANI	D, sm VF sand, lit M sand	
t							· · ·	,							
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15		4	SS	24"	20"	17'0"	2	2	for et la contra la contra contra contra contra contra contra contra contra contra contra contra contra contra		wet		Grey FM SAND, lit	t C sand	
I							3	4			loose				
20					i				,					*	
		5	SS	24"	21"	22'0"		5			wet		GreyLtBrn FM SAI	ND	
							6	7			compact				
25				04	01	07108							No second		
		6	SS	24"	0"	27'0"	2	2			wet v loose	27'0"	No recovery		
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10														E.O.B 27'0"	
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10	con	ditio	ns a	t spe	ecific	: locati	ons ai	nd ma			represent sent				
pr	con DUND SU					cation	<mark>s or ti</mark> SED			CASIN	G THEN	<u></u>	SING TO	FT. HOLE NO.	D-1
	AUGER						-	T = TH		-	V = VANE T		SING TU		0-1
/0I	R = WEIG	HT O	FRO	DS		WOH =					DS			C = COARSE	
S =	= SPLIT T	UBE S	SAMP	LER		H.S.A. =					20-35% A	ND - 35 50	10/	M = MEDIUM F = FINE	

	SOI		STI NOV			×.	CLIEN	IT:	K	G&D Ai	rchitects & Er	ngineers		SHEET_1_OI	
			NOV RD, C				PROJ	ECT NO	<u></u>		G211-1671	1-20		HOLE NO.	D-2
			(3) 2(J	ECT N/			Former St D			BORING LOCATIONS	
			4) 94							<u> </u>	Parochial So	chool		per Plan	
OI	REMAN -		ER				LOCA	TION	V	an Co	rtlandt Park		awrence St		
NS	PD/ak/						 				Yonkers, CASING	SAMPLER	CORE BAR	OFFSET	
								TYPE			HSA	SS*	SOME DAIN	DATE START	1/4/21
R	OUND W	ATER	OBSE	ERVA	TIONS	5		SIZE	I.D.		2 1⁄2"	1 3/8"		DATE FINISH	1/4/21
~	<u>11'</u> FT				S				IER WI			140#	BIT	SURFACE ELEV.	El. ±78
1_	FTAF							HAMN	IER FA			30"		GROUND WATER ELEV.	El. ±67
		ļ	; T	SAMI I	PLE T	1	-				DENO(T)	OTDATA		FICATION OF SOIL REM	
	CASING BLOWS PER		Туре	PEN	REC	DEPTH	ON (FOR			CORE TIME PER FT	DENSITY OR CONSIST M	STRATA CHANGE DEPTH	1	OSS OF WASH WATER, S ROCK, ETC.	
	FOOT	ļ	ļ			@ BOT	0-0		12-18	(MIN)	OIST	ELEV			
		1	SS	24"	12"	2'0"	$\begin{vmatrix} 1 \\ 3 \end{vmatrix}$	2			moist loose		12" Topsoil	SAND, lit FC gravel	
								, J	1		10036	3'0"		Univer, liter o graver	
e					<u> </u>		ļ							MOAND	
5		2	ss	24"	20"	7'0"	6	13		-	moist	5'6"	OrngBrn SILT & F	M SAND	
							12	14		<u> </u>	v stiff		LtBrn FM SAND		
			ļ	ļ	ļ				ļ	ļ	-				
0					<u> </u>		<u> </u>	<u> </u>	<u> </u>						
		3	SS	24"	18"	12'0"	4	4			moist/vmoist		LtBrnGrey FM SA	ND	
							4	5		 	loose				
5	anan ana ana ana ana ana ana ana ana an			0.48	4.01	47101			-						
		4	SS	24"	18"	17'0"	3	4		<u> </u>	wet loose		GreyBrn FM SAN)	
									1						
20	,					-									
		5	SS	24"	18"	22'0"	3	3			wet		SAME		
							4	4	ļ	ļ	loose				
5															
		6	SS	24"	17"	27'0"	2	3			wet	07108	LtBrn Grey FM SA	ND	
							3	4			loose	27'0"			***
														E.O.B 27'0"	
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									 				* SAF	ETY HAMMER CATHEAD & RC	PE
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0	con	ditio	ns a	t spe	ecific	evealed location	ons ai	nd ma			represent sent				
	DUND SU	RFAC	E TO		F	T. U	SED			CASIN			NG TOF	T. HOLE NO.	D-2
	AUGER R = WEIG					PISTON WOH = '			IINWAL IAMMEI		V = VANE TE:	ST		C = COARSE	
	= SPLIT T													M = MEDIUM	
RC	OPORTIO	NS US	SED:	TRAC)E = 0	- 10%	LITTLE	= 10 - 3	20% S	OME =	20 - 35% ANI	D =35 - 50%		F = FINE	

	SOI).	CLIEN	IT:	K	G&D Ar	chitects & E	ngineers		SHEET_1_OF	<u> 1 </u>
							0000				0044 407	4.00		HOLE NO.	D-3
			-	T 06							G211-167 Former St I				
				62-93 46-48			PROJ	ECT NA	AME		Parochial S			BORING LOCATIONS per Plan	
FOI	REMAN -						LOCA	TION	Va				awrence St	por rius	
	PD/ak/i										Yonkers,	NY			
INS	PECTOR										CASING	SAMPLER	CORE BAR	OFFSET	
							-	TYPE			HSA	<u>SS*</u>		DATE START	1/4/21
	OUND WA <u>10'</u> FT					5		SIZE I	.D. IER WI	-	2 1/2"	<u>1 3/8"</u> 140#	BIT	DATE FINISH SURFACE ELEV.	1/4/21 El. ±79.8
	FTAF			z				5	IER FA		Belden bi del electro del colorido de bisma bisma bisma bisma bisma bisma bisma bisma bisma bisma bisma bisma b	30"		GROUND WATER ELEV.	Él. ±69.
	1	1	ç	SAMI	PIF					T	1		1		
DEPT	CASING BLOWS PER FOOT				REC	DEPTH @ BOT	ON (FOR	WS PEI I SAMP CE ON 6 - 12	ler Tube)	CORE TIME PER FT	DENSITY OR CONSIST M OIST	STRATA CHANGE DEPTH ELEV	1	IFICATION OF SOIL REM OSS OF WASH WATER, S ROCK, ETC.	
	F001				┼───	W BUT	<u> </u>	<u>1</u>	1	(MIN)		 0'6"	2" Asphalt; Proces	is stone	
		1	SS	24"	20"	2'6"	2	2			moist/vmoist	~~~		0 & SILT, lit cinders, cobbles, FC	gravel (fill)
				ļ	ļ		3	3	ļ	ļ	loose				
5				 				┟		 		5'0"			
		2	SS	24"	18"	7'0"	7	9			moist/vmoist		LtBrnLtGrey VFF S	SAND	
					<u> </u>	ļ	7	10	ļ	ļ] compact				
				 	<u> </u>			<u> </u>	<u> </u>	 	{				
10								<u> </u>	<u> </u>						
		3	SS	24"	18"	12'0"	2	3	[moist/vmoist		LtBrnLtGrey VFFN	1 SAND	
					 		2	3			loose				
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		4	SS	24"	20"	17'0"	3 4	3	<u> </u>		wet		LtBrnLtGrey VFFN	IC SAND	
							4	4	<u> </u>		loose				
									[
20		5		24"	15"	22'0"	3	3	<u> </u>		wat	٩	SAME	7	
			- 33		-13	22.0	4	4			wet loose		SAWE		
l]				
25					<u> </u>										
2.5		6	SS	24"	18"	27'0"	3	4			wet		SAME		
							4	4			loose	27'0"			8520/00000000000000000000000000000000000
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10							TOTAL					1415-1414-1414-1414-1414-1414-1414-1414			943973399149929244
10	con	ditio	ns a	t spe	ecific	locati	ons ar	nd ma			represent sent				
R	CON DUND SU	ditio RFAC	ns a E TO	t oth	ler lo	cation	<u>s or ti</u> i Sed	mes.		CASIN	G THEN			T. HOLE NO.	D-3
. = .	AUGER	UP =	UNDI	STUR	RBED	PISTON			INWAL	L	V = VANE TE			.	
	r = Weig = Split t					WOH = V					DS				
											20 - 35% AN	ID =35 - 50%		M = MEDIUM F = FINE	

Test Pit Logs

SOILTESTING, INC.	CLIENT: KG&D Architects & Engineers	SHEET_1_OI	=1
90 DONOVAN RD.		HOLE NO.	TP A-1
OXFORD, CT 06478	PROJECT NO. G211-1671-20		
CT (203) 262-9328	PROJECT NAME	BORING LOCATIONS	
NY (914) 946-4850	Former St. Denis Parochial School	plan	
FOREMAN - DRILLER	LOCATION Van Cortlandt Park Ave & Lawrence St		
PD/ak/rc	Yonkers, NY		······································
INSPECTOR		OFFSET	
James DeAngelis	TEST PITS	DATE START	1/6/21
GROUND WATER OBSERVATIONS AT <u>none_</u> FT_AFTER_ <u>12</u> HOURS ATFT_AFTERHOURS	EXCAVATOR	DATE FINISH SURFACE ELEV. GROUND WATER ELEV.	1/6/21

TEST pit - A-1 WALL FACE BRick GTROOND SURFACE 2 4 1/2" - X BOF 7'2" concrete 12"

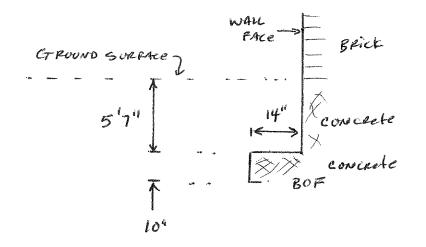
SOILTESTING, INC. 90 DONOVAN RD.	CLIENT: KG&D Architects & Engineers	SHEET_1_OF HOLE NO.	TP A-2
OXFORD, CT 06478	PROJECT NO. G211-1671-20		
CT (203) 262-9328	PROJECT NAME	BORING LOCATIONS	
NY (914) 946-4850	Former St. Denis Parochial School	, plan	
FOREMAN - DRILLER	LOCATION Van Cortlandt Park Ave & Lawrence St		
PD/ak/rc	Yonkers, NY		
INSPECTOR		OFFSET	
James DeAngelis	TEST PITS	DATE START	1/6/21
GROUND WATER OBSERVATIONS AT none_FT_AFTER_12_HOURS AT_FT_AFTER_HOURS	EXCAVATOR	DATE FINISH SURFACE ELEV. GROUND WATER ELEV.	1/6/21

TEST pit - A.Z

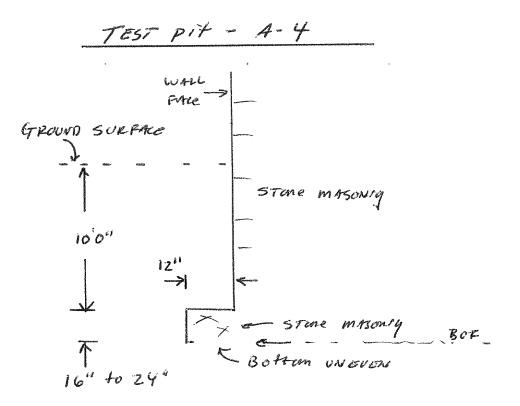
FACE - BRICK $\frac{3'0''}{x} = \frac{6L''}{x} + \frac{1}{2}$ CTROUND SURFACE **不** 1'1"

SOILTESTING, INC.	CLIENT: KG&D Architects & Engineers	SHEET_1_OI	F1
90 DONOVAN RD.		HOLE NO.	TP-A3
OXFORD, CT 06478	PROJECT NO. G211-1671-20		
CT (203) 262-9328	PROJECT NAME	BORING LOCATIONS	
NY (914) 946-4850	Former St. Denis Parochial School	plan	
FOREMAN - DRILLER	LOCATION Van Cortlandt Park Ave & Lawrence St		
PD/ak/rc	Yonkers, NY		
INSPECTOR		OFFSET	
James DeAngelis	TEST PITS	DATE START	1/6/21
GROUND WATER OBSERVATIONS		DATE FINISH	1/6/21
AT_ <u>none</u> FT_AFTER_12_HOURS ATFT_AFTERHOURS	EXCAVATOR	SURFACE ELEV. GROUND WATER ELEV.	

- A-3 TEST pit



SOILTESTING, INC.	CLIENT: KG&D Architects & Engineers	SHEET_1_OI	F
90 DONOVAN RD.		HOLE NO.	TP-A4
OXFORD, CT 06478	PROJECT NO. G211-1671-20		
CT (203) 262-9328	PROJECT NAME	BORING LOCATIONS	
NY (914) 946-4850	Former St. Denis Parochial School	plan	
FOREMAN - DRILLER	LOCATION Van Cortlandt Park Ave & Lawrence St		
PD/ak/rc	Yonkers, NY	, ,	
INSPECTOR		OFFSET	
James DeAngelis	TEST PITS	DATE START	1/6/21
GROUND WATER OBSERVATIONS AT_10'_FT_AFTER_12_HOURS ATFT_AFTERHOURS	EXCAVATOR	DATE FINISH SURFACE ELEV. GROUND WATER ELEV.	1/6/21



NOTE: EXCAUNTE UNSTABLE, F-SAND

: WATER WEEping AT 10' Depth

Field Permeability Test Results

ST. DENIS COMMUNITY SCHOOL YONKERS, NY

PERMEABILITY TEST RESULTS

										Water Depth	Water Depth			
	Ground		Hole	Test D	epth, ¹	Stickup,	Test			in Casing	in Casing	Δ Time,	Permeabi	lity (in./hr)
Boring	Elev., ft.	Test	Diam., in.	in.	ft.	in.	Elev., ft.	Soil Immediately Below Test Depth	N-value	at t _o , in.	at t ₁₀₀ , in.	min.	in./hr	cm/s
		1	4.0	96.00	8.00	30		Brown silty f SAND	NR	99	114	14	3.970	2.80E-03
C-1	El. 80.9	2	4.0	96.00	8.00	30	72.9	Brown silty f SAND	NR	98	116.5	20	3.704	2.61E-03
		3	4.0	96.00	8.00	30		Brown silty f SAND	NR	99	121	25	4.624	3.26E-03
		1	4.0	96.00	8.00	30	30 30 30 70.6	Brown f SAND	NR	91	119.5	5	23.079	1.63E-02
C-2	El. 78.6	2	4.0	96.00	8.00	30		Brown f SAND	NR	97	117	4	20.050	1.41E-02
		3	4.0	96.00	8.00	30		Brown f SAND	NR	98	118	4	21.467	1.51E-02
		1	4.0	96.00	8.00	30		Brown f SAND	NR	96	119	10	9.975	7.04E-03
C-3	El. 79.8	2	4.0	96.00	8.00	30	71.8	Brown f SAND	NR	96	110	5	8.617	6.08E-03
C-3	LI. 79.0	3	4.0	96.00	8.00	30	/1.0	Brown f SAND	NR	97	116	7	10.426	7.36E-03
		4	4.0	96.00	8.00	30		Brown f SAND	NR	98	117	7	11.114	7.84E-03

Notes: 1) Test Depth is measured from the ground surface to the bottom of hole

SOILTESTING, INC. 90 DONOVAN RD.							CLIEN	IT:	KC	&D Arc	chitects & E	Ingineers		SHEET 1 OF 1	
								EOT N			0044 403	(4.00		HOLE NO.	C-1
		(FOF T (20					I			E	G211-167				
		-					PROJECT NAME Former St Denis Parochial School						BORING LOCATIONS per Plan		
FO	NY (914) 946-4850 FOREMAN - DRILLER JK/eq						LOCATION Van Cortlandt Park Ave & Lawrence St							M . I . A	
							L				Yonkers				
IINS	SPECTOR										CASING	SAMPLER	CORE BAR	OFFSET	40/00/00
	OUND W		ODCI		TION	-	TYPE SIZE I.D.				<u>HW</u> 4"			DATE START DATE FINISH	12/23/20 12/23/20
1	<u>none</u> FT					5			.D. 1er Wi	г	<u></u>	140#	BIT	SURFACE ELEV.	El. ±80.8
1	TFT_AFTERHOURS								IER FA			30"		GROUND WATER ELEV.	2200.0
F	SAMPLE						1			1	T		1		
			1	Τ	1			WS PEI	RIN	CORE	DENSITY	STRATA		IFICATION OF SOIL REM	
ΗL	CASING			DEN	DEC			SAMP		TIME	OR	CHANGE	COLOR, LO	DSS OF WASH WATER, S	EAMS IN
DEF			DEPTH		CE ON 6 - 12		PER FT	CONSIST	DEPTH		ROCK, ETC.				
ļ	FOOT	ļ	ļ	ļ	ļ	@ BOT	0-0	1-12	12-10	(MIN)	MOIST	ELEV			
				<u> </u>	<u> </u>			ļ					2" Asphalt 4" Gravel Base		
		+	 					<u> </u>	<u> </u>		-		4 Glavel Dase		
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5					211123010124098	and distribution of the second		merene					Brn VFFM SAND,	lit silt	
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NOTE: Subsoil conditions revealed to							d by th	nis inv	vestia	ation	represent	hadadaa hadaa ka ka ka ka ka ka ka ka ka ka ka ka k		5886400000000000000000000000000000000000	
	con	ditio	ons a	t spe	ecific	c locati	ons ar	nd ma							
GR	CON OUND SU					cation	<u>s or ti</u> SED	mes.		CASIN	G THEN	CAS	SING TO	FT. HOLE NO.	
A =	AUGER	UP ≃	UND	ISTUF	RBED	PISTON		T = TH	INWAL	L	V = VANE T				
	R = WEIG = SPLIT T					WOH = HSA =					DS			C = COARSE M = MEDIUM	
											20 - 35% A	ND =35 - 50		F = FINE	

SOILTESTING, INC	CLIENT:	
90 DONOVAN RD.	. <u>KGTD</u>	ARCHITEZTS & BAGRS G 211 - 1671 - 20
OXFORD, CT 06478	PROJECT NO. PROJECT NAME	<u>G211-1671-20</u>
CT (203) 262-9328		DEN'IS PAROCHIAL SCHOOL
NY (914) 946-4850	LOCATION	
	VAN CORTLANDT	PARK AVE & LAWRENCE ST, Yonkers, NY.
	PERCOLA	
DRING / PERCOLATION TEST LO	CATION.: C-1	CASING DIAMETER: 4
CHNICIAN: JAM	15 DOANGeus	OVERALL CASING LENGTH: 10°64
	5-2021	CASING STICK-UP (A.G. SURFACE): 26
DJACENT OBSERVATION WELL G	ROUNDWATER LEVEL READING:	NJ/A
Depth to Groundwa	ter Level (Date:	and Time:)
RESOAK DATE: 12-23	- 7.0	· · ·
	WATER LEVEL from	
TIME	TOP of CASING	NOTES
9:25 Am	None	APTER PRE-SOAK
1197	<u>at au</u>	
9:27	8'3"	INITINZ FUL
9:39	8 114	
<u> </u>	9'6"	15" / 14 min
	·	
11:40	8'2"	2º FIL
11:45	8.7"	
11:50	8' 112"	
11:55	9.41	
12:00	9'82"	18:2" / 20
12/04	8'3"	
12:14	k	3 B2 Fill
12/19		
	7 12	
12:24	9'94	
12:29		22/25 min
	an a sa an an an an an an an an an an an an an	
		PORC PATE:
		22"/25 min
		52" / Hour
		· ·

IENTS:	Au	WATOR	Levor	READings	Fram	TOP	
		CASING		1		j	
		4				· · · · · · · · · · · · · · · · · · ·	

	STI			2.	CLIEN	IT:	KG	S&D Arc	chitects & E	ngineers	*****	SHEET 1 OF 1		
	0 DO									G211-167	4.00		HOLE NO.	C-2
	XFOF :T (20					J				G211-16/			BORING LOCATIONS	
1	46-48			PROJECT NAME Former St Denis Parochial School						per Plan				
	FOREMAN - DRILLER PD/ak/rc					LOCATION Van Cortlandt Park Ave & Lawrence St								
						Yonkers, NY						OFFORT		
INSPECTO	<					TYPE				CASING HW	SAMPLER SS*	CORE BAR	OFFSET DATE START	1/4/21
GROUND W	GROUND WATER OBSERVATIONS						SIZE			4"	1 3/8"		DATE FINISH	1/4/21
1	AT_none_FT_AFTER_0_HOURS							IER WI	г.	·····	140#	BIT	SURFACE ELEV.	El. ±78.6
AT_FT A	ATFT_AFTERHOURS						HAMN	IER FA	LL		30"		GROUND WATER ELEV.	/
	<u> </u>		SAM	PLE	·····	1			T			I		
H CASING BLOWS PER FOOT	NO	Туре	PEN	REC	DEPTH @ BOT	ON (FOR	WS PEI I SAMPI CE ON 6 - 12	ler Tube)	CORE TIME PER FT (MIN)	DENSITY OR CONSIST MOIST	STRATA CHANGE DEPTH ELEV	1	IFICATION OF SOIL REN DSS OF WASH WATER, ROCK, ETC.	
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	+		<u> </u>	<u> </u>					<u> </u>			Bm VFFM SAND		
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											8'0"	-	MILENS (1997 1930) - 19 - 19 - 19 - 19 - 19 - 19 - 19 - 1	
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NOTE: Su					evealed c locati									
co	nditic	ons a	t oth	ner lo	cation	s or ti			-					<u> </u>
GROUND S A = AUGER					T. U PISTON		Т = ТН	linwal	_CASIN	G THEN <u>.</u> V = VANE T		SING TO	FT. HOLE NO.	C-2
WOR = WEI	GHT C	F RO	DS		WOH =	WEIGH	T OF H	AMME	R & RO				C = COARSE	
SS = SPLIT PROPORTIO										20 - 35% A	ND =35 - 50		M = MEDIUM F = FINE	

SOILTESTING, INC	· CLIENT: KG+D	ARCHITELTS & Enges							
90 DONOVAN RD.	PROJECT NO. GZ11 - 1671 - 20 PROJECT NAME								
OXFORD, CT 06478	PROJECT NAME								
CT (203) 262-9328 NY (914) 946-4850	FORMOR STI	DEN'IS PAROCHIAL SCHOOL							
111 (314) 340-4030	LOCATION	7 Deck die Alle in im St. 1. iuw							
		PARK AVE & LAWRENCE ST, YON KERS, NY.							
	PERCOLA	TION TEST							
BORING / PERCOLATION TEST LOC	ATION .: C-Z	CASING DIAMETER: 4"							
ECHNICIAN: JAME	5 DOANgeüs	OVERALL CASING LENGTH: 1064							
	5-2021	CASING STICK-UP (A.G. SURFACE): 26"							
ADJACENT OBSERVATION WELL GR	OUNDWATER LEVEL READING:	1/4							
Depth to Groundwate	er Level (Date:	and Time:)							
	-								
PRESOAK DATE: 1-4-20	12/								
TIME	WATER LEVEL from								
	TOP of CASING	NOTES							
9:47.4m	None	AFTER PRE-SOAK							
9150	<u> </u>	INITIAL FILL							
10:10	NONE								
10:16	7'7"	22 FILL							
10217	8'3"								
10:10	8'10"	Washing							
10:14									
10:21									
10.01	9'11'2"								
11:01									
	8'14	3 120 Price							
11:03	. 011								
11205	9'9"	20° / 4 min							
11:11	Ct all	4m Ful							
	8'2"								
11:15	9'10"	20" / 4 min							
		PERC RATE:							
		20" / 4 min							
	·	300° / Have							
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OMMENTS:	_Au	WATOR	Levor	READings	Fram	TOP
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SOILTESTING, INC.							CLIENT: KG&D Architects & Engineers						SHEET 1_OF 1		
90 DONOVAN RD. OXFORD, CT 06478													HOLE NO.	C-3	
							PROJECT NO. G211-1671-20								
CT (203) 262-9328 NY (914) 946-4850							PROJECT NAME Former St Denis Parochial School					BORING LOCATIONS per Plan			
FOREMAN - DRILLER						LOCATION Van Cortlandt Park Ave & Lawrence St									
	PD/ak/rc							Yonkers, NY					0.55057		
INS	PECTOR										CASING HW	CASING SAMPLER CORE BAR		OFFSET DATE START	1/4/21
GR	OUND W	ATER	OBSE	RVA	TIONS	5	TYPE SIZE I.D.				4"	1 3/8"		1/4/21	
	<u>none</u> FT					5	HAMMER WT.					140#	BIT		
AT.	_FT_AF	TER_	_HO	ÚRS			HAMMER FALL				30"			GROUND WATER ELEV.	y
				SAMI	PLE	*	1								
DEPTH	CASING BLOWS PER	NO	Туре	PEN	REC	DEPTH	ON (FOR	NS PEI SAMP CE ON 6 - 12	ler Tube)	CORE TIME PER FT	DENSITY OR CONSIST MOIST	STRATA CHANGE DEPTH ELEV	1	IFICATION OF SOIL REM DSS OF WASH WATER, S ROCK, ETC.	
	FOOT		<u> </u>			@ BOT			T	(MIN)	MUIST	ELEV			
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		 											Brn VFFM SAND		
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NOTE: Subsoil conditions revealed by this investigation represent															
conditions at specific locations and may not represent															
conditions at other locations or times. GROUND SURFACE TO FT. USED CASING THEN CASING TO FT. HOLE NO. C-3															
A = AUGER UP = UNDISTURBED PISTON T = THINWALL V = VANE TEST															
WOR = WEIGHT OF RODSWOH = WEIGHT OF HAMMER & RODSC = COARSESS = SPLIT TUBE SAMPLERH.S.A. = HOLLOW STEM AUGERM = MEDIUM															
	PROPORTIONS USED: TRACE = 0 - 10% LITTLE = 10 - 20% SOME = 20 - 35% AND = 35 - 50% F = FINE														

SOILTESTING, IN		CLIENT: KG+D Advisorers & Engag							
90 DONOVAN RD.	PROJECT NO.	KGTD ARCHITEZTS & Engrs PROJECT NO. GZII - 1671 - 20 PROJECT NAME							
OXFORD, CT 06478	PROJECT NAME								
CT (203) 262-9328	FORMER ST. S	FORMER ST. DEN'IS PAROCHIAL SCHOOL							
NY (914) 946-4850	I OCATION	OCATION							
	VAN CORTLANDT	PARK AVE & LAWRENCE ST, YON KERS, NY.							
	PERCOLAT	ION TEST							
DRING / PERCOLATION TEST LC	DCATION.: C-3	CASING DIAMETER: 4"							
	US DOANGeüs	OVERALL CASING LENGTH: 10°6 " CASING STICK-UP (A.G. SURFACE): 2 6							
ST DATE: /-	-5-2021								
		14							
Depth to Groundwa		and Time:)							
ESOAK DATE: 1-	4-2021								
TIME	WATER LEVEL from								
	TOP of CASING	NOTES							
10:31 Am	None	AFTER PRE-SOAK							
121011									
10134	8'0"	INITIM Fill							
10136	8'74								
10:39	g'1"								
10142	9'65"								
10144	9'11"	23" / 10 min							
10:45	6'0"	2ª File							
10:51	8'0"								
10156	9'2"	-1- 14" 15 min							
	<u>_</u>								
11:17	8'1"	2.00 0							
11:22	9131	3º Fin							
11:24		104							
	9.81	19" / 7 min							
11:27	0 11	- terta							
	8 2"	yth Fill							
11:34	<i>q'qn</i>	19ª 17 min							
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		PERC RATES							
		19" / 7min							
		163" / Hore							
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