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July 16, 2008

Project BL-07-04393C

Mr. Dean Williamson
Frauenshuh Companies
7101 West 78th Street
Minneapolis, MN 55439-2504

Re: Addendum to Geotechnical Evaluation
Test Pit Observations
Proposed Medical Office Building
700 American Boulevard West
Bloomington, Minnesota

Dear Mr. Williamson:

This letter serves as an Addendum to our Geotechnical Evaluation Report dated February 8, 2008. This Addendum addresses the observation of a series of test pits across the project site. The purpose of which was to compliment the previously completed soil borings and report by providing additional information regarding the subsurface soil conditions and anticipated excavation depths for soil corrections.

The test pit observations and report were completed in general accordance with our Proposal for Supplemental Geotechnical and Environmental Services dated June 11, 2008.

This report should be attached to and used in conjunction with the Geotechnical Evaluation Report for the project.

Background

We previously performed soil borings and a geotechnical evaluation for the proposed Medical Office Building at 700 American Boulevard in Bloomington, Minnesota for Frauenshuh Companies. The results were submitted in the Geotechnical Evaluation Report, dated February 8, 2008 and performed under Braun Intertec project number BL-07-04393.

New Information

Since completion of the geotechnical evaluation, the proposed site layout has been slightly altered. The proposed Medical Office Building is now orientated to be parallel with Lyndale Avenue, as shown on the attached Test Pit Location Sketch. The building was originally parallel with American Boulevard.

Test Pit Observation Results

Test Pit Locations and Elevations

On July 8, 2008, we observed the excavation of nine test pits across the project site by Glenn Rehbein Companies using a tracked backhoe. The test pits were denoted as TP-1 to TP-9 and were performed at the approximate test pit locations as shown on the attached Soil Boring and Test Pit Location Sketch.

Surface elevations and locations of the test pits were determined with GPS technology through the use of the State of Minnesota's permanent GPS base station network.

Soils Encountered

The soils encountered in the test pit excavations were classified by a geotechnical engineer in general accordance with ASTM D 2488, "Description and Identification of Soils (Visual-Manual Procedure)." Log of Test Pits sheets, outlining the soils observed during the test pit excavations, are attached to this report.

In general, the soils observed in the test pit excavations were similar to the soils encountered by the soil borings, consisting of a variable layer of previously placed fill overlying alluvial sands.

At the test pits within or near the proposed building pad (TP-1 to TP-6), the fill soils ranged in depth from 4 to 9 1/2 feet below existing grade. The fill soils appear to be deepest across the site near Lyndale Avenue. However, the depth of fill soils observed at most of the test pits was slightly shallower (1 to 2 feet) than indicated by the borings.

The fill was typically comprised of two distinct layers. The upper 2 to 4 feet of fill generally consisted of dark brown to black, debris laden silty sand. The silty sand contained large quantities of gravel, bituminous and concrete fragments and lesser amounts of roots, plastic and other debris. Some of the fill soils in the upper strata were also slightly organic in nature.

Below the upper debris laden fill zone, the fill generally consisted of dark brown to brown silty sand and poorly graded sand with silt. Some of these soils contained layers or pockets of concrete fragments and blocks. However, the lower fill zone generally appeared to be void of bituminous fragments and other debris.

The underlying alluvial sands generally consisted of brown to light brown poorly graded sand and poorly graded sand with silt.

Groundwater was not observed at the test pit locations during excavation or prior to backfilling. The test pits were immediately backfilled with the excavated soils after excavation and observation.

Environmental Screening Results

Soil samples retrieved from the test pit excavations were examined by an environmental technician for unusual staining, odors and other apparent signs of contamination. In addition, the soil samples were screened for the presence of total organic vapors using a photoionization detector (PID). The PID was equipped with a 10.6-electron-volt lamp and calibrated to an isobutylene standard. The PID was used to perform a headspace method of analyses, as recommended by the Minnesota Pollution Control Agency (MPCA). The highest PID reading observed is then recorded in parts per million (ppm).

No elevated (greater than background concentrations) PID readings were observed in the soil samples collected from the test pit excavations.

Additional Comments and Recommendations

Excavation

The soils encountered in the test pits were similar to the soils encountered in the soil borings and the original recommendations presented in the geotechnical evaluation are still valid for the project.

As discussed in the report, we recommend the excavator remove all previously placed fill soils from the building pad and oversizing area down to the underlying alluvial sands. We also recommend the removal of all existing concrete slabs, foundation walls, foundations and underground utilities from the building and oversize areas.

The anticipated excavations depths at the test pit locations (within or near the proposed building pad) for soil correction operations for spread footing and slab-on-grade support are shown in Table 1.

Table 1. Anticipated Excavation Depths for Building Support

Test Pit	Surface Elevation	Approximate Soil Correction Depth Below Surface (feet)	Approximate Bottom Elevation
TP-1	855.0	6 1/2	848 1/2
TP-2	853.1	4	849
TP-3	853.8	4	849 1/2
TP-4	855.4	9	846 1/2
TP-5	854.7	9 1/2	845
TP-6	853.6	4 1/2	849

Reuse of Onsite Soils

A substantial portion of the onsite fill soils appear to be suitable for direct reuse as engineered fill. However, the upper 2 to 4 foot layer of debris laden silty sand fill does not generally appear suitable for reuse as structural fill below the building and oversize area. Soils containing bituminous material or other debris and organic material should not be used as structural fill. Alternatively, some of this silty sand could potentially be used as fill and backfill below pavement or landscaped areas.

The fill soils encountered below the upper debris laden silty sand layer generally appear more suitable for reuse as structural fill below the building. However, the test pits did encounter some zones and layers of concrete blocks and fragments in the lower fill zone. Concrete blocks and other debris should be removed from the fill prior to reuse.

The native alluvial sands present below the fill soils should generally be directly suitable for reuse as structural backfill. The native alluvial soils appear to be present at a relatively shallow depth (4 to 4 1/2 feet below grade) across the western portion of the property and could potentially be borrowed (mined) for reuse as structural fill in the building pad.

Because residual soil impacts remain at the site as indicated in previous evaluations of the site, the management and handling of potentially impacted soil should be in accordance with an approved Development Response Action Plan (DRAP) from the MPCA for the project.

Remarks

This addendum should be attached to and considered a part of our original Geotechnical Evaluation Report. With the exception of any results or recommendations changed by this Addendum, the information contained in our Geotechnical Evaluation Report remains unchanged.

If you have any questions about this Addendum, please contact Josh Van Abel at 952.995.2310 or Greg Bialon at 952.995.2380.

Sincerely,

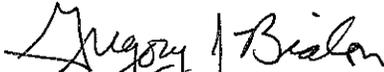
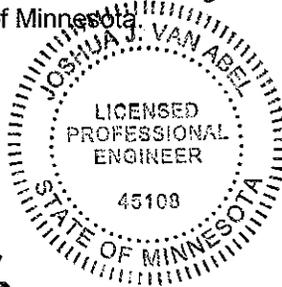
BRAUN INTERTEC CORPORATION

Professional Certification:

I hereby certify that this plan, specification or report was prepared by me or under my direct supervision and that I am a duly Licensed Professional Engineer under the laws of the State of Minnesota.



Joshua J. Van Abel, PE
Project Engineer
License Number: 45108



Gregory J. Bialon, PE
Principal Engineer

Attachments:

Soil Boring and Test Pit Location Sketch
Log of Test Pit TP-1 to TP-9

c: Jeff Almsted, Frauenshuh Companies

Ltr-Addendum to Geo Eval

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Braun Project BL-07-04393C ADDENDUM TO GEOTECHNICAL EVALUATION Medical Office Building 700 American Boulevard Bloomington, Minnesota					TEST PIT: TP-1		
					LOCATION: See attached sketch.		
DRILLER: J. Van Abel		METHOD: Backhoe		DATE: 7/8/08		SCALE: 1" = 4'	
Elev. feet	Depth feet	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)	BPF	WL	MC %	Tests or Notes
855.0	0.0						
852.0	3.0	FILL	FILL: Silty Sand, fine- to coarse-grained, with Gravel, roots, plastic, and bituminous fragments, non- to slightly organic, dark brown to black, moist.				5.8 ppm
848.5	6.5	FILL	FILL: Silty Sand, fine- to medium-grained, with a trace of Gravel, dark brown and brown, moist.			12	0.8 ppm Benchmark: Ground surface elevations determined using GPS.
843.0	12.0	SP	POORLY GRADED SAND, fine- to medium-grained, brown to light brown, moist. (Alluvium)			7	0.3 ppm
END OF TEST PIT. Water not observed during excavation. Test pit immediately backfilled.							

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF TEST PIT 04393C.GPJ BRAUN.GDT 7/16/08 14:54

Braun Project BL-07-04393C ADDENDUM TO GEOTECHNICAL EVALUATION Medical Office Building 700 American Boulevard Bloomington, Minnesota					TEST PIT: TP-2		
					LOCATION: See attached sketch.		
DRILLER: J. Van Abel		METHOD: Backhoe		DATE: 7/8/08		SCALE: 1" = 4'	
Elev. feet	Depth feet	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)	BPF	WL	MC %	Tests or Notes
853.1	0.0						
852.6	0.5	FILL	FILL: Silty Sand, fine- to medium-grained, slightly organic, with roots, black, moist.				
		FILL	FILL: Silty Sand, fine- to coarse-grained, with Gravel, roots, wood, and plastic, non- to slightly organic, dark brown and black, moist.				1.0 ppm 1.5 ppm
850.1	3.0						
849.1	4.0	FILL	FILL: Silty Sand, fine- to medium-grained, with a trace of Gravel, dark brown, moist.				
		SP	POORLY GRADED SAND, fine- to medium-grained, brown to light brown, moist. (Alluvium)			6	
843.1	10.0						0.7 ppm
			END OF TEST PIT.				
			Water not observed during excavation.				
			Test pit immediately backfilled.				

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF TEST PIT 04393C.GPJ BRAUN.GDT 7/16/08 14:54

Braun Project BL-07-04393C ADDENDUM TO GEOTECHNICAL EVALUATION Medical Office Building 700 American Boulevard Bloomington, Minnesota				TEST PIT: TP-3 LOCATION: See attached sketch.			
DRILLER: J. Van Abel		METHOD: Backhoe		DATE: 7/8/08		SCALE: 1" = 4'	
Elev. feet	Depth feet	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)	BPF	WL	MC %	Tests or Notes
853.8	0.0						
853.3	0.5	FILL	FILL: Silty Sand, fine- to medium-grained, slightly organic, black, moist.				3.4 ppm
		FILL	FILL: Silty Sand, fine- to coarse-grained, with Gravel, bituminous and concrete fragments, dark brown, moist.				
849.8	4.0						
		SP-SM	POORLY GRADED SAND with SILT, fine- to medium-grained, brown to light brown, moist. (Alluvium)			5	0.5 ppm
845.8	8.0						
			END OF TEST PIT.				
			Water not observed during excavation.				
			Test pit immediately backfilled.				

LOG OF TEST PIT (See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF TEST PIT 04393C.GPJ BRAUN.GDT 7/16/08 14:54

Braun Project BL-07-04393C ADDENDUM TO GEOTECHNICAL EVALUATION Medical Office Building 700 American Boulevard Bloomington, Minnesota				TEST PIT: TP-4 LOCATION: See attached sketch.			
DRILLER: J. Van Abel		METHOD: Backhoe		DATE: 7/8/08		SCALE: 1" = 4'	
Elev. feet	Depth feet	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)	BPF	WL	MC %	Tests or Notes
855.4	0.0						
853.9	1.5	FILL	FILL: Silty Sand, fine- to coarse-grained, with Gravel, roots, concrete and bituminous fragments, non- to slightly organic, black and dark brown, moist.				0.3 ppm
		FILL	FILL: Poorly Graded Sand with Silt, with Silty Sand layers, with concrete fragments and Gravel, dark brown and brown, moist.			6	0.3 ppm
846.4	9.0						
844.4	11.0	SP	POORLY GRADED SAND, fine- to medium-grained, light brown, moist. (Alluvium)				
			END OF TEST PIT. Water not observed during excavation. Test pit immediately backfilled.				

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF TEST PIT 04393C.GPJ BRAUN.GDT 7/16/08 14:54

Braun Project BL-07-04393C ADDENDUM TO GEOTECHNICAL EVALUATION Medical Office Building 700 American Boulevard Bloomington, Minnesota					TEST PIT: TP-5 LOCATION: See attached sketch.		
DRILLER: J. Van Abel		METHOD: Backhoe		DATE: 7/8/08		SCALE: 1" = 4'	
Elev. feet	Depth feet	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)	BPF	WL	MC %	Tests or Notes
854.7	0.0						
854.2	0.5	FILL	FILL: Silty Sand, fine- to medium-grained, slightly organic, with roots, black, moist.				
		FILL	FILL: Silty Sand, fine- to coarse-grained, with concrete and bituminous fragments, dark brown, moist.				
851.7	3.0	FILL	FILL: Poorly Graded Sand with Silt, with Silty Sand layers, with concrete fragments, dark brown and brown, moist.			6	1.4 ppm
845.2	9.5	FILL					0.5 ppm
843.7	11.0	SP	POORLY GRADED SAND, fine- to medium-grained, light brown, moist. (Alluvium)				
END OF TEST PIT. Water not observed during excavation. Test pit immediately backfilled.							

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF TEST PIT 04393C.GPJ BRAUN.GDT 7/16/08 14:54

Braun Project BL-07-04393C ADDENDUM TO GEOTECHNICAL EVALUATION Medical Office Building 700 American Boulevard Bloomington, Minnesota				TEST PIT: TP-6 LOCATION: See attached sketch.		
DRILLER: J. Van Abel		METHOD: Backhoe		DATE: 7/8/08	SCALE: 1" = 4'	
Elev. feet	Depth feet	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)	BPF	WL	Tests or Notes
853.6	0.0					
853.1	0.5	FILL	FILL: Silty Sand, fine- to medium-grained, slightly organic, black, moist.			1.0 ppm
		FILL	FILL: Silty Sand, fine- to coarse-grained, with Gravel, bituminous and concrete fragments, dark brown, moist.			
849.1	4.5	SP-SM	POORLY GRADED SAND with SILT, fine- to medium-grained, brown to light brown, moist. (Alluvium)			0.6 ppm
845.6	8.0		END OF TEST PIT. Water not observed during excavation. Test pit immediately backfilled.			

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF TEST PIT 04393C.GPJ BRAUN.GDT 7/16/08 14:54

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Braun Project BL-07-04393C ADDENDUM TO GEOTECHNICAL EVALUATION Medical Office Building 700 American Boulevard Bloomington, Minnesota	TEST PIT: TP-7 LOCATION: See attached sketch.
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DRILLER: J. Van Abel	METHOD: Backhoe	DATE: 7/8/08	SCALE: 1" = 4'
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Elev. feet	Depth feet	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)	BPF	WL	MC %	Tests or Notes
853.0	0.0						
852.5	0.5	FILL	FILL: Silty Sand, fine- to coarse-grained, slightly organic, with roots, black, moist.				
848.5	4.5	SP	FILL: Silty Sand, fine- to coarse-grained, with a trace of Gravel and bituminous fragments, with Poorly Graded Sand with Silt layers, dark brown and brown, moist. POORLY GRADED SAND, fine- to medium-grained, brown to light brown, moist. (Alluvium)			9	0.3 ppm
845.0	8.0		END OF TEST PIT. Water not observed during excavation. Test pit immediately backfilled.			8	0.3 ppm

(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF TEST PIT 04393C.GPJ BRAUN.GDT 7/16/08 14:54

Braun Project BL-07-04393C ADDENDUM TO GEOTECHNICAL EVALUATION Medical Office Building 700 American Boulevard Bloomington, Minnesota					TEST PIT: TP-8		
					LOCATION: See attached sketch.		
DRILLER: J. Van Abel		METHOD: Backhoe		DATE: 7/8/08		SCALE: 1" = 4'	
Elev. feet	Depth feet	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)	BPF	WL	MC %	Tests or Notes
852.7	0.0						
850.2	2.5	FILL	FILL: Silty Sand, fine- to medium-grained, with wood and roots, slightly organic, dark brown and black, moist.				0.1 ppm
848.7	4.0	FILL	FILL: Poorly Graded Sand with Silt, fine- to medium-grained, dark brown and brown, moist.				
845.7	7.0	SP	POORLY GRADED SAND, fine- to medium-grained, light brown, moist. (Alluvium)			5	0.2 ppm
END OF TEST PIT. Water not observed during excavation. Test pit immediately backfilled.							

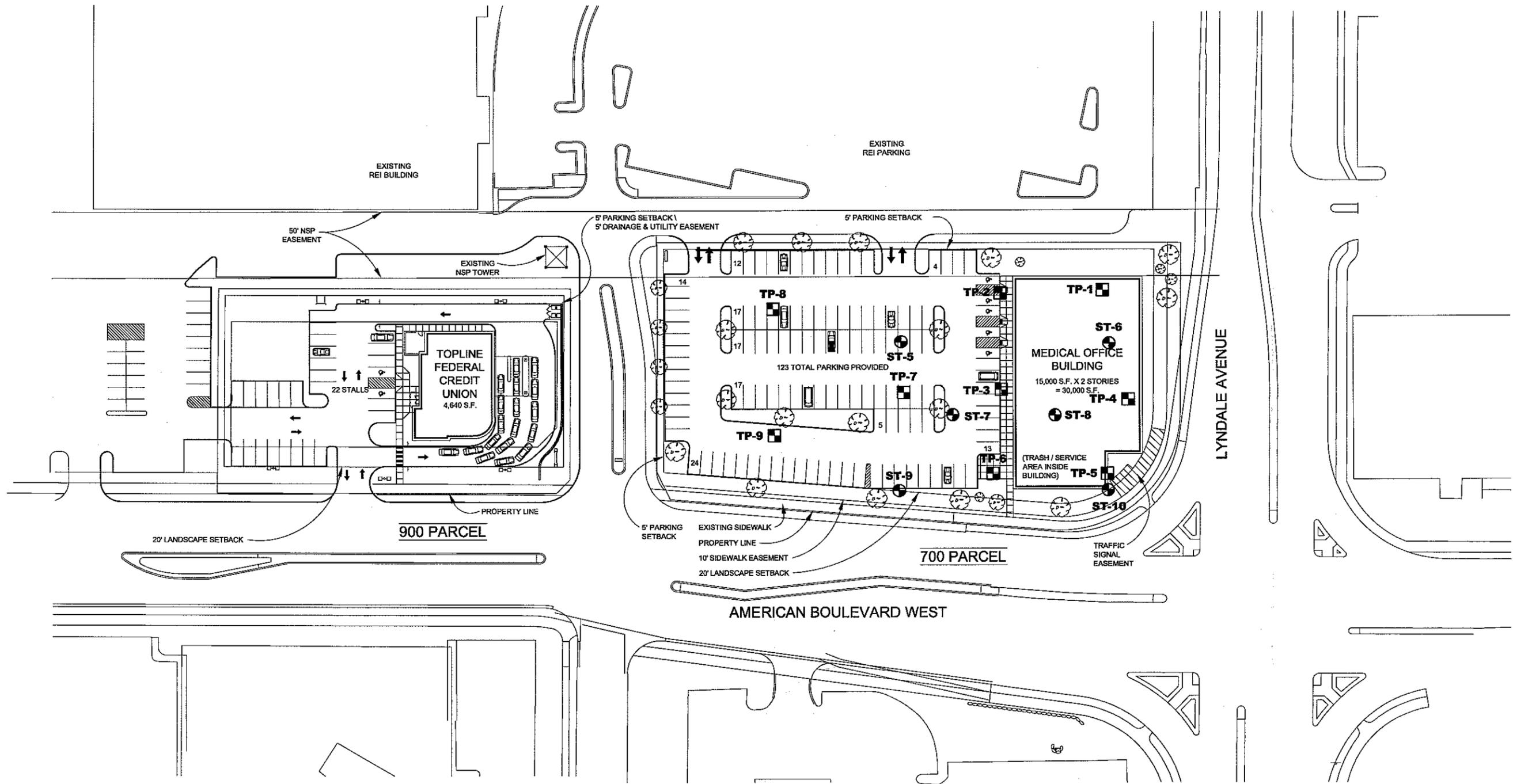
(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF TEST PIT 04393C.GPJ BRAUN.GDT 7/16/08 14:54

Braun Project BL-07-04393C ADDENDUM TO GEOTECHNICAL EVALUATION Medical Office Building 700 American Boulevard Bloomington, Minnesota				TEST PIT: TP-9 LOCATION: See attached sketch.			
DRILLER: J. Van Abel		METHOD: Backhoe		DATE: 7/8/08		SCALE: 1" = 4'	
Elev. feet	Depth feet	ASTM Symbol	Description of Materials (ASTM D2488 or D2487)	BPF	WL	MC %	Tests or Notes
852.9	0.0						
852.4	0.5	FILL	FILL: Silty Sand, fine- to medium-grained, slightly organic, black, moist.				
850.9	2.0	FILL	FILL: Silty Sand, fine- to coarse-grained, with Gravel, bituminous and concrete fragments, dark brown, moist.				0.1 ppm
		FILL	FILL: Poorly Graded Sand with Silt, fine- to medium-grained, with concrete fragments, brown, moist.			3	
846.9	6.0	SP	POORLY GRADED SAND, fine- to medium-grained, light brown, moist. (Alluvium)				0.2 ppm
844.9	8.0		END OF TEST PIT. Water not observed during excavation. Test pit immediately backfilled.				

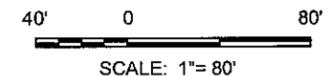
(See Descriptive Terminology sheet for explanation of abbreviations)

LOG OF TEST PIT 04393C.GPJ BRAUN.GDT 7/16/08 14:34



SOIL BORING AND TEST PIT LOCATIONS SKETCH
SUPPLEMENTAL GEOTECHNICAL EVALUATION
MEDICAL OFFICE BUILDING
700 AMERICAN BOULEVARD WEST
BLOOMINGTON, MINNESOTA

- DENOTES APPROXIMATE LOCATION OF TEST PIT
- DENOTES APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING



Project No:	BL0704393C
Drawing No:	BL0704393
Scale:	1" = 80'
Drawn By:	MRG
Date Drawn:	
Checked By:	JJV
Last Modified:	7/15/08
Sheet of	Fig: