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- Executive Summary and associated figures
- Table of Contents
- Project Location Plan/Map or Vicinity Map
- Site Plans, Boring Location Plans, or Exploration Plans
- Survey
- Geologic Maps
- Cross Sections/Subsurface Profiles
- Fill or Peat Thickness Maps and Contour Maps
- Boring Logs
- Geology Text (if no logs)
- Soil Classification Key/Boring Log Key
- Probe Logs
- Test Pit Logs
- Monitoring Well Logs
- Cone Penetrometer Logs
- Shear Wave Velocity Measurements
- Groundwater Maps
- GW Elevation Tables/Data
- Soils Lab Testing (Geotechnical) Summary Tables
 - Grain Size Analyses/Hydrometer Analyses
 - Atterberg Limits
 - Strength tests: Triaxial, Unconfined, Direct Shear
 - Organic Content
 - ¹⁴C or Radiocarbon Testing
 - Other _____
- Soil Chemical Analytical Testing Summary Tables
- Water/Groundwater Chemical Analytical Summary Tables
- Comments _____

Date Copied 12/6/00 By Suzanne



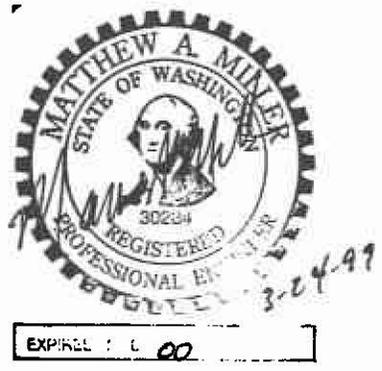
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Prepared for

Mr. Paul Cesmat
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Prepared by
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March 1999

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March 13, 1999

Mr. Paul Cesmat
OMNI Construction
2715 California Avenue SW, #2B
Seattle, WA 98116

SUBJECT: GEOTECHNICAL REPORT FOR 4518 - 51st PLACE, SEATTLE, WASHINGTON

Dear Mr. Cesmat:

Enclosed is the geotechnical report prepared by David Evans and Associates, Inc. (DEA) for the development of the single-family residence referenced above.

This report presents our conclusions from the subsurface evaluation and our recommendations for the foundation design for this residence. The subsurface investigation revealed the site is underlain by fill at the top of the slope. The remainder of the site has silty sands with gravels beneath the fill. The native soils appear capable of supporting the anticipated light loads of a two-story residential structure. Our recommendations include a combination of drilled piers and shallow spread footings. Following these recommendations will produce a site suitable for the proposed residence.

If you have any questions, please call us at (253) 922-9780. Thank you for the opportunity to prepare this report. We look forward to working with you during the construction of the project.

Sincerely,

DAVID EVANS AND ASSOCIATES, INC.

Matthew A. Miller, P.E.
Geological Engineer

MAM:jkk

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Contents

Introduction	1
Project Description	1
Site Description.....	1
Site Investigation	2
Groundwater	2
Site Stability	2
Recommendations	3
Site Preparation	3
Rock Wall Stability.....	3
Spread Footings.....	4
Piers	4
Building Setbacks.....	4
Overexcavation	4
Earth Pressures and Retaining Walls.....	5
Drainage.....	5
Conclusion	5
Limitations	6
Figures	
Figure 1 - Vicinity Map.....	1
Appendix	
Soil Logs	
Table 16-J, 1997 Uniform Building Code	
Site Plan	

Introduction

This report presents the results of our geotechnical study for the proposed residence located at 4518 - 51st Place SW in Seattle, Washington (*Figure 1*). The study included an evaluation of the subsurface conditions of the site, a review of available literature, and recommendations for design and construction of the proposed residence in accordance with the Department of Construction and Land Use (DCLU) Director's Rule 3-93. Our work also included a visual reconnaissance of the area and the excavation of three test pits using a trackhoe.

Figure 1: Vicinity Map



During the investigation, unsuitable soils were encountered to a depth of seven feet at the top of the existing slope and three feet near the center of the proposed building pad. The unsuitable soils include fill with organics and some construction debris from the top of the slope west to the midpoint of the lot.

Due to the presence of the fill on the lot, we recommend the foundations extend through the fill to the native soils. This can be accomplished with extended stem walls to a conventional footing or, with piers. No foundations should be placed within the fill.

Earthwork should take place during a dry time of the year due to the potential for erosion on the site.

Project Description

The site is vacant where the construction of a single-family residence is proposed. The wood framed residence will be located as close as the setbacks will allow to the west side of the lot. The structure will be a two-story residence having the potential for a daylight basement on the east side. The residence will extend down the existing slope. An attached garage will be located on the south side with direct access to the street.

The remaining area surrounding the proposed residence will be landscaped. There will be no disturbance to the sloped area to the west of the top of slope.

Site Description

The property consists of two lots, each measuring approximately 25 feet by 115 feet. The lot has street frontage along the west property line which abuts 51st Place SW. There are existing residences to the north, south and west. To the east is an alley and more residential development. The surrounding area is residential and highly developed.

DAVID EVANS AND ASSOCIATES, INC.

TEST PIT # 1

Client: OMNI Construction						DEA Inspector: MAM	
Location: 4518 51st Pl				Excavator: DEA			
Project: 51st Pl			Project #: OMNC 0013				
Date Started: 2/17/99			Date Completed: 2/17/99			Surface Elev. 322 ft	
Total Depth: 10 ft			Water Depth: NA			Sheet 1 of 2	
DEPTH (FEET)	EMPL. INT.	BLOW COUNT	SAMPLE TYPE	LITHOLOGY	USCS CLASS	LITHOLOGIC DESCRIPTION	REMARKS
0					SM	Brown damp loose silty sands some organics some construction debris	Very loose , some caving during excavation
2						(FILL)	
3							
4							
5							
6							
7							
8					SP	Tan damp medium dense silty sand with gravels	
9							
10							
11							

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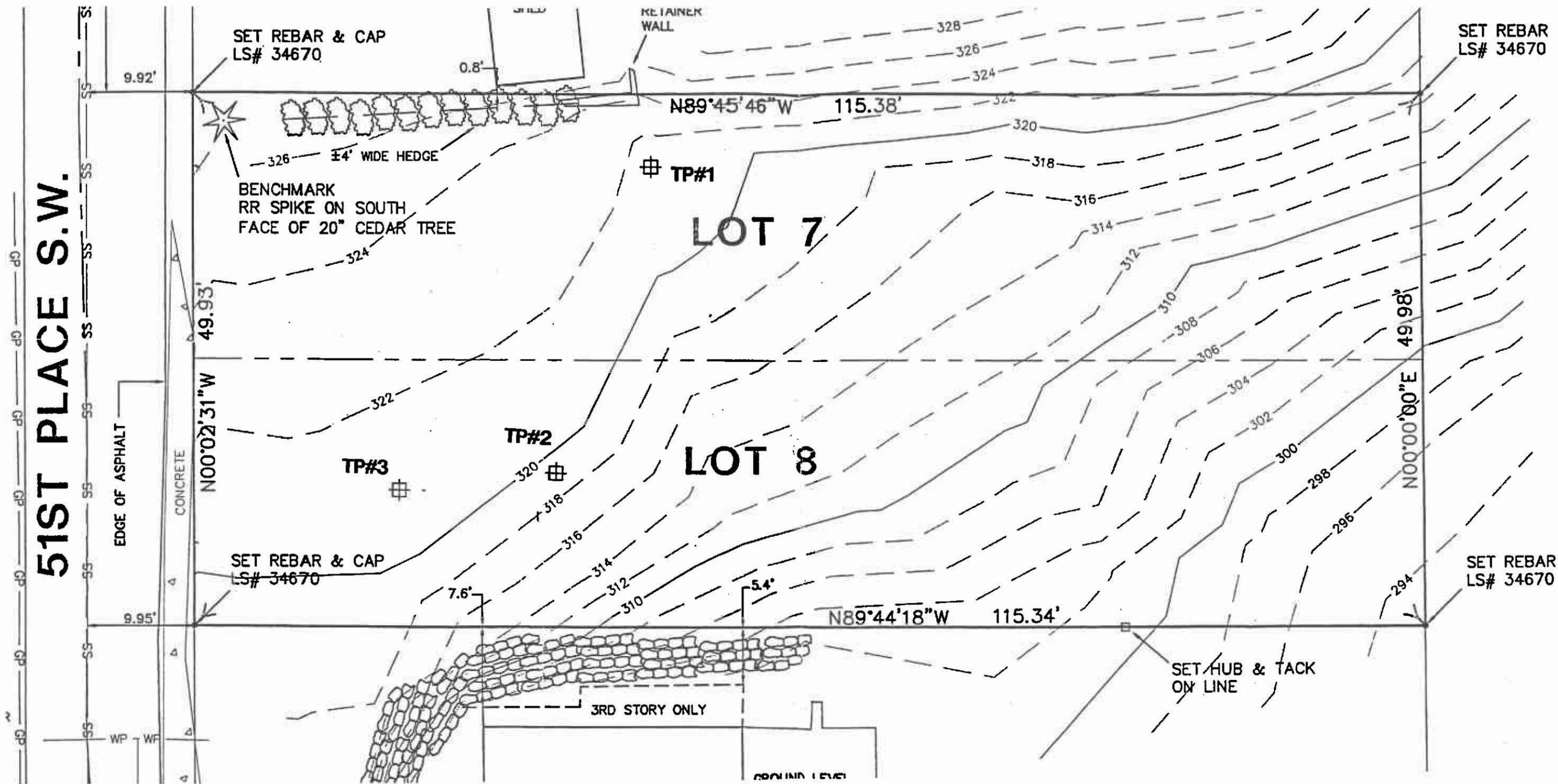
TEST PIT # 2

Client: OMNI Construction						DEA Inspector: MAM	
Location: 4518 51st Pl				Excavator: DEA			
Project: 51st Pl			Project #: OMNC 0013				
Date Started: 2/17/99			Date Completed: 2/17/99			Surface Elev. 318 ft	
Total Depth: 8 ft			Water Depth: NA			Sheet 1 of 2	
DEPTH (FEET)	EMPL. INT.	BLOW COUNT	SAMPLE TYPE	LITHOLOGY	USCS CLASS	LITHOLOGIC DESCRIPTION	REMARKS
0					SM	Brown damp loose silty sands some organics some construction debris	Very loose , some caving during excavation
2						(FILL)	
3							
4							
5							
6							
7					SP	Tan damp medium dense silty sand with gravels	
8							
9							

DAVID EVANS AND ASSOCIATES, INC.



Client: OMNI Construction							DEA Inspector: MAM	
Location: 4518 51st PI				Excavator : DEA				
Project : 51st PI		Project #: OMNC 0013						
Date Started: 2/17/99		Date Completed: 2/17/99				Surface Elev. 3321 ft		
Total Depth: 8 ft		Water Depth: NA				Sheet 2 of 2		
DEPTH (FEET)	SAMPL INT.	BLOW COUNT	SAMPLE TYPE		LITHOLOGY	USCS	LITHOLOGIC DESCRIPTION	REMARKS
0						SM	Brown damp loose silty sands some organics some construction debris	Very loose , some caving during excavation
2							(FILL)	
3								
4								
5								
6								
7						SP	Ten damp medium dense silty sand with gravels	



51ST PLACE S.W.



SITE PLAN
4518 51st Place SW

OMNI Construction
OMNC 0013

