

- City box number 89<sup>th</sup> - 145<sup>th</sup> Ave
- Title/cover page w/the following info:
- Company (author) name
  - Report Date
  - Project name
  - Company's job number
  - City DCLU project number (7-digit number)
  - City Permit number (6-digit number)
  - Kroll map index number (3-digit number, w/?E,W,N,S)
  - Green label
  - Site address (may be on 1<sup>st</sup> or 2<sup>nd</sup> page of text)
- 3437
- Executive Summary and associated figures
  - Table of Contents list of plates
  - 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
      - <sup>14</sup>C or Radiocarbon Testing
      - Other \_\_\_\_\_
  - Soil Chemical Analytical Testing Summary Tables
  - Water/Groundwater Chemical Analytical Summary Tables
  - Comments \_\_\_\_\_
- Date Copied 8-9-99 By AB

2/9/99

# GEOTECH CONSULTANTS

13256 N.E. 20th St. (Northup Way), Suite 16  
Bellevue, WA 98005  
(206) 747-5618  
(206) 343-7959

2831 N.E 91<sup>st</sup> St.

8906583

8906336  
6339  
6607  
6583



FEB 5 1990

February 2, 1990

JN 89341

Brad Decker  
2366 Eastlake Avenue East, #433  
Seattle, Washington 98102

3437

Subject: Slope Stability  
Proposed Single-Family Residence  
28XX Northeast 91st Street  
Seattle, Washington

erson

Dear Mr. Decker:

This letter is in response to a request from \_\_\_\_\_ of Seattle DCLU Plan Reviewer for a statement \_\_\_\_\_ our opinion as to the stability of the subject site prior to development, during, and after construction. It is quite obvious that the present stability is marginal as the fill was placed over a steep slope.

Therefore, our opinion is that the stability is very marginal at the present time. During construction, the stability should be increased by grading the slope. In our letter of January 16, 1990, we included the required DCLU Director's Rule 2-87 Statement, which stated in part, "In our opinion, the risk of damage to the proposed development, or to adjacent properties, from soil instability on this site will be minimal subject to the conditions set forth in the report", and in our letter of January 16, 1990, "It is also our opinion that the completed development will not increase the potential for soil movement. The use of the word minimal should not be taken to imply that there is no risk but rather that the risk is low as construction on, or close to a slope always involves some risk."

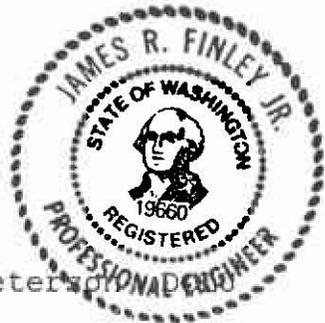
If there are any questions, or if we can be of further service, please contact us.

Respectfully submitted,

GEOTECH CONSULTANTS, INC.

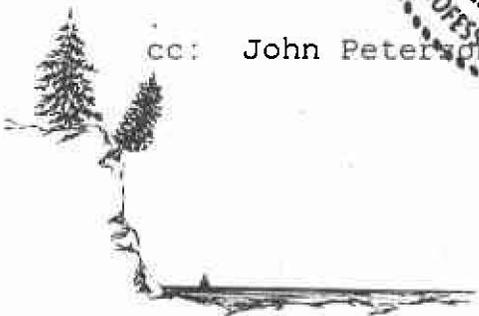
*James R. Finley, Jr.*

James R. Finley, Jr., P.E



cc: John Peters

2831 NE 91st St



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13256 N.E. 20th St. (Northup Way), Suite 16  
Bellevue, WA 98005  
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NOV 1 1989

FEB 6 1990

DEPT. OF CONSTRUCTION & LAND USE  
LAND USE DIVISION

October 9, 1989

JN 89341

Brad Decker  
P.O. Box 22669  
Seattle, Washington 98122

Subject: Geotechnical Engineering Study  
Proposed Single-Family Residences  
28XX Northeast 91st Street  
Seattle, Washington

Gentlemen:

We are pleased to present this geotechnical engineering report for four proposed single family residences to be constructed immediately west of 2819 - 91st Avenue Northeast in Seattle, Washington. The purpose of our work was to explore site conditions and provide earthwork and foundation design criteria. The work was authorized by your acceptance of our proposal, P-9125 dated August 22, 1989.

The subsurface conditions of the proposed building site were explored with three test borings. We found the site to be underlain at depth by medium-dense to dense sand, overlain by up to twenty-four feet of loose sand fill. In our opinion the structures should be supported on deep foundations which will transfer structural loads through the fill and loose native sand to the dense underlying soils.

The attached report contains a more detailed discussion of the study and recommendations. If there are any questions, or if we can be of further service, please contact us.

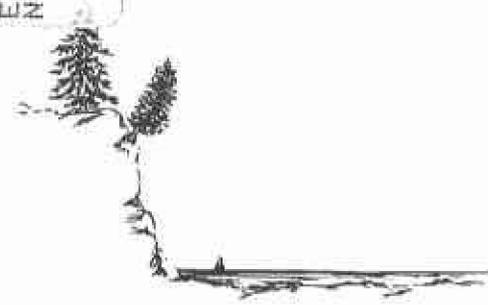
Respectfully submitted,

GEOTECH CONSULTANTS, INC.

*Mark Dodds*

Mark K. Dodds, P.E.  
Senior Engineer

8706829  
PROJECT NR: 8706829  
CEW (LU) (PS)  
YB (PS)  
LU: 891101  
REV: 891101  
REV: 891101  
REV: 891101  
SN 59  
02831 NW 91ST  
TOWNES & DECKER  
BUILDING ID'S  
EC ESTABLISH USE AS SINGLE FAMILY RESIDENCE  
N CONSTRUCT SINGLE FAMILY RESIDENCE ALL PER PLANS  
2831 NW 91ST



Brad Decker  
October 9, 1989

JN 89341  
Page 10

The following plates are attached and complete this report:

Plate 1	Vicinity Map
Plate 2	Site Plan
Plates 3 - 5	Boring Logs
Plate 6 - 7	Grain Size Analysis
Plate 8	Footing Drain Detail



#22508

Attachments

DBG/MKD:cvb

Respectfully submitted,

GEOTECH CONSULTANTS, INC.

*Dennis B. Green* BY DRW  
Dennis B. Green  
Geotechnical Engineer

*Mark Dodds*  
Mark K. Dodds, P.E.  
Senior Engineer

GEOTECH CONSULTANTS, INC.

# PUGET SOUND



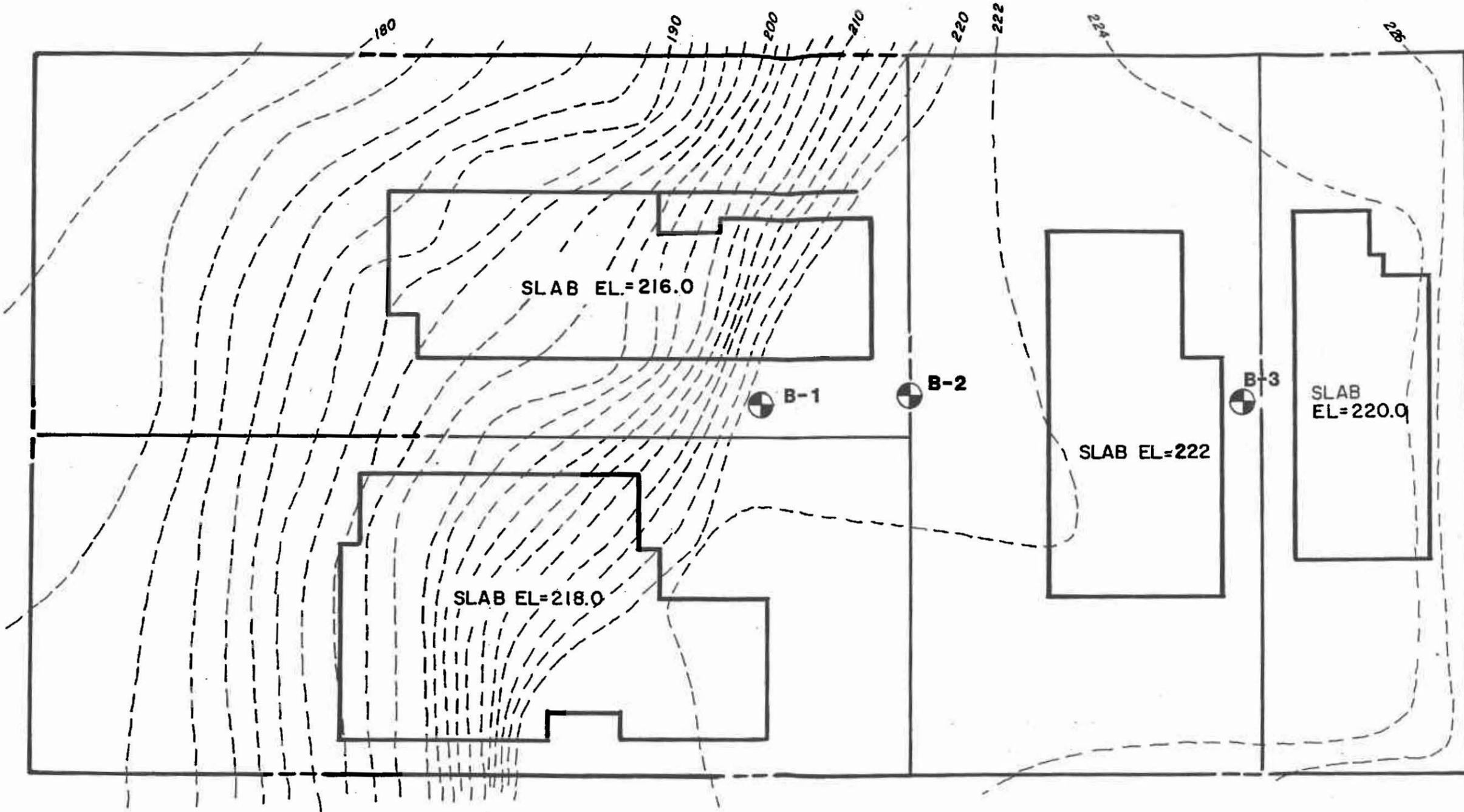
**SITE**



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CONSULTANTS**

**VICINITY MAP  
28XX N.E. 91st ST.  
SEATTLE, WASHINGTON**

Job No. 1 <b>89341</b>	Date: <b>SEPT 89</b>	<b>N.T.S.</b>	Plate: 1
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**LEGEND**

B-1  
 APPROXIMATE BORING LOCATION



**GEOTECH  
CONSULTANTS**

<b>SITE PLAN</b>			
28XX N.E. 91st ST.			
SEATTLE, WASHINGTON			
Job No. 80341	Date SEPT 89	Scale 1/16"=1'-0"	Plate 2

# BORING 1

Elevation: \_\_\_\_\_

Moisture Content (%)	Sample	Blows Per Foot	USCS	Description	Depth
				Brown, silty SAND with organics and debris, fine-grained, moist, loose (Fill)	0
	1	2			5
18.8	2	4			10
	3	6	SM / ML	Some concrete fragments	15
	4	-		No Sample - pounded on WOOD (in tip)	20
19.4	5	9		Mottled gray - black SILT and SAND with organics, wet, loose	25
				Reddish-brown, silty SAND, fine to medium-grained, moist, loose to medium dense	25
16.8	6	11			30
					32
23.2	7	50	SM	Brown, silty, gravelly SAND, fine-grained, saturated, dense	35
	8	62		Tan, silty SAND, fine-grained, moist, very dense	39'

Test boring terminated at 39 feet on 9/1/89.  
Groundwater observed at 32 feet while drilling.



**GEOTECH  
CONSULTANTS**

## TEST BORING LOG

28XX N.E. 91ST STREET  
SEATTLE, WASHINGTON

Job No.:

89341

Date:

9/1/89

Logged By:

DBG

Plate:

3

# BORING 2

Elevation: \_\_\_\_\_

Moisture Content (%)	Sample	Blows Per Foot	USCS	Description	Depth
				Dark brown SILT and SAND with organics, moist (Fill)	0
	1	10		Dark brown, gravelly, silty SAND, fine-grained, moist, loose (Fill)	5
	2	10	SM   ML	Mottled gray and black, SILT and SAND with organics, moist, loose	10
16.0	3	4			15
	4	3			20
	5	9		Reddish-brown, silty SAND, fine to medium-grained, moist, loose to medium dense	25
16.6	6	16	SM		29

Test boring terminated at 29 feet on 9/1/89.  
No groundwater observed while drilling.



**TEST BORING LOG**  
28XX N.E. 91ST STREET  
SEATTLE, WASHINGTON

Job No. 89341	Date 9/1/89	Logged By DBG	Plate 4
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# BORING 3

Elevation: \_\_\_\_\_

Moisture Content (%)	Sample	Blows per Foot	USCS	Description	Depth
				Brown to reddish-brown, silty SAND, fine-grained, moist (Fill)	0
	1	9	SM	Reddish-brown to gray, silty SAND, moist, loose (Fill)	5
	2	6	SM	Mottled gray, very silty SAND/sandy SILT with organics, asphalt, moist, loose	10
9.6	3	9	SM		14'

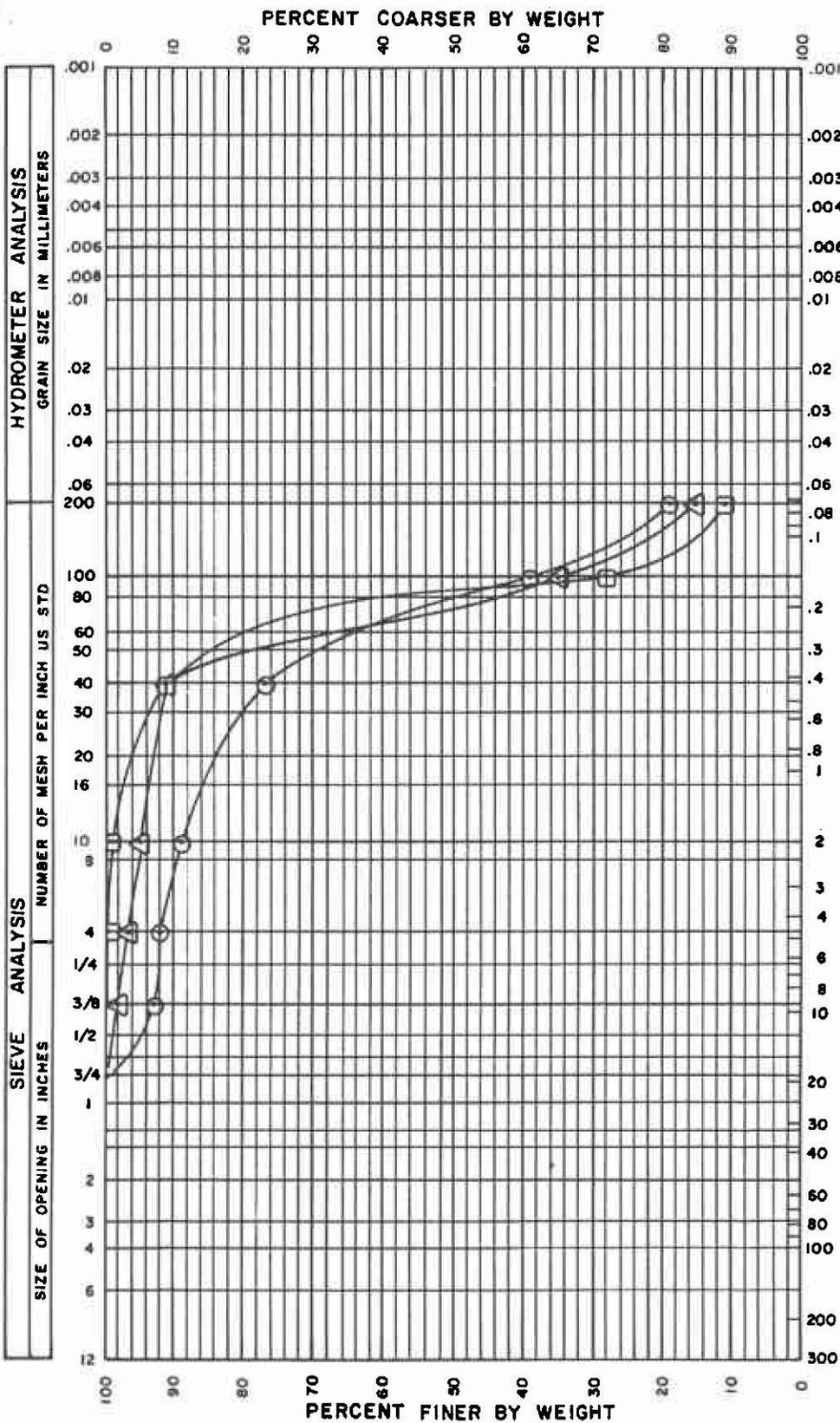
Test boring terminated at 14 feet on 9/1/89.  
No groundwater observed while drilling.



**GEOTECH  
CONSULTANTS**

**TEST BORING LOG**  
28XX N.E. 91ST STREET  
SEATTLE, WASHINGTON

Job No. 89341	Date 9/1/89	Logged By DBG	Page 5
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**GRAIN SIZE ANALYSIS**  
28XX NORTHEAST 91ST STREET  
SEATTLE, WASHINGTON

Job No.:	Date:	By:	Plate:
89341	9/1/89	DBG	6

