

**2520 TOPANGA
SKYLINE DRIVE
2005 GEOLOGY
TOPANGA CANYON**



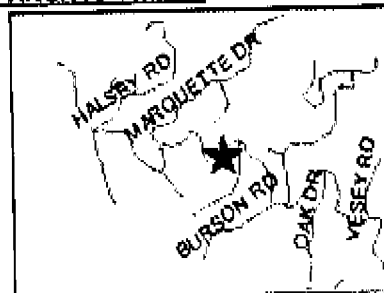
**BILL BOWLING
PRUDENTIAL MALIBU REALTY
TOPANGA DIVISION
WWW.TOPANGALAND.COM**

2 ✓

Bill Bowling
Prudential Malibu Realty
(310) 428-5085 (310) 455-4074 Facsimile

STATUS: Active**ADDRESS:** 2520 Topanga Skyline DR , TOPANGA ,CA 90290**LP:** \$299,000

Add'l Photos



Larger Map Plat Map Aerial Map

RESIDENTIAL LAND**APN:** 4436-016-009**ADP:** Yes**APX ACREAGE:** 0.19**HORSE PROP:** No**ELEM:** Topanga Elementary**AREA:** (27) Topanga**SUB:****ZONE:** LCR11L**VIEW:** Yes**BONDS/ASSESSMENTS:****JRHS:** Revere or Parkman**GAS:** Bottled**TELEPHONE:** No**STAKED:** No**MLS#** 06-132839**WATER:** In Street**TV/CABLE:** No**APX LDM:****MAP:** 589/H2**ELECTRIC:** In Street**SEWER:** Septic**APX LSZ:** 8,610/OT**SRHS:** Palisades or Taft

DIRECTIONS: P.C.H to Topanga, Lt Old Topanga, Pass Topanga Skyline, Rt Valley/Oak, Lt Topanga Skyline pass 2508
REMARKS: VACANT LAND - STREET TO STREET LOT IN OLD TOPANGA. TWO LEGAL PARCELS, TWO FLAT PADS AND TWO ASSESSOR'S PARCEL NUMBERS. OUT OF THE COASTAL COMMISSION JURISDICTION. RECENT IMPROVEMENTS INCLUDE SOIL RECOMPACTION, DRIVEWAY GRADING & EXTENSIVE RETAINING WALLS PUT IN BY L.A. COUNTY. GEO REPORTS AVAILABLE & SEPTIC IS IN PLACE. NEXT TO 2508 TOPANGA SKYLINE DR. A GREAT PLACE TO PLACE YOUR MICHELLE KAUFMANN GLIDEHOUSE. CYN & MTN VIEWS WITH AN OPEN FEELING AS TO THE 4 PARCELS OF ADJACENT COUNTY LAND. HURRY! Private Remarks

GAS: Bottled**WATER:** In Street**ELECTRIC:** In Street**TOPOGRAPHY:** Downhill, Pad, Uphill, Varied**SITE:** Rural, Varied**STREET:** Asphalt**ON FILE:** Geological Report, Soils Report**VIEW TYPE:** Canyon, Mountains, Tree Top**SEC:****SEWER:** Septic**DISC:** As Is**OCC/SHOW:** Call Listing Office**WATERFRONT:** None**FIN:** Cash, Cash To New Loan**POSS:** Close Of Escrow**SZONE:** Other**LP:** \$299,000
LD: 09/24/2006**DOM:** 135
CD:**SP:**
SD:**SSP:**
WD:**OLP:** \$325,000**LA1:** William Bill Bowling**LA1#:** 310-455-3200**LA1 CELL:** 310-428-5085**LA1 OTHER:****LA2:****LA2#:****LA2 CELL:****LA2 OTHER:****LA1 EMAIL:** wbowling@prutopanga.com**LA2 EMAIL:****LO1:** Prudential Malibu Realty**LO1#:** 310-455-3200 x 27**LO2:****LO2#:****CSO:** 5%**LT:** ER**LBA:** No**BAC:** Yes**LS:** No**EO:** No**PROBATE:**

Broker/Agent does not guarantee the accuracy of the square footage, lot size or other information concerning the conditions or features of the property provided by the seller or obtained from Public Records or other sources. Buyer is advised to independently verify the accuracy of all information through personal inspection and with appropriate professionals. Copyright © 2007 by Combined L.A./Westside MLS, Inc. Information deemed reliable but not guaranteed.

wbowling@prutopanga.com

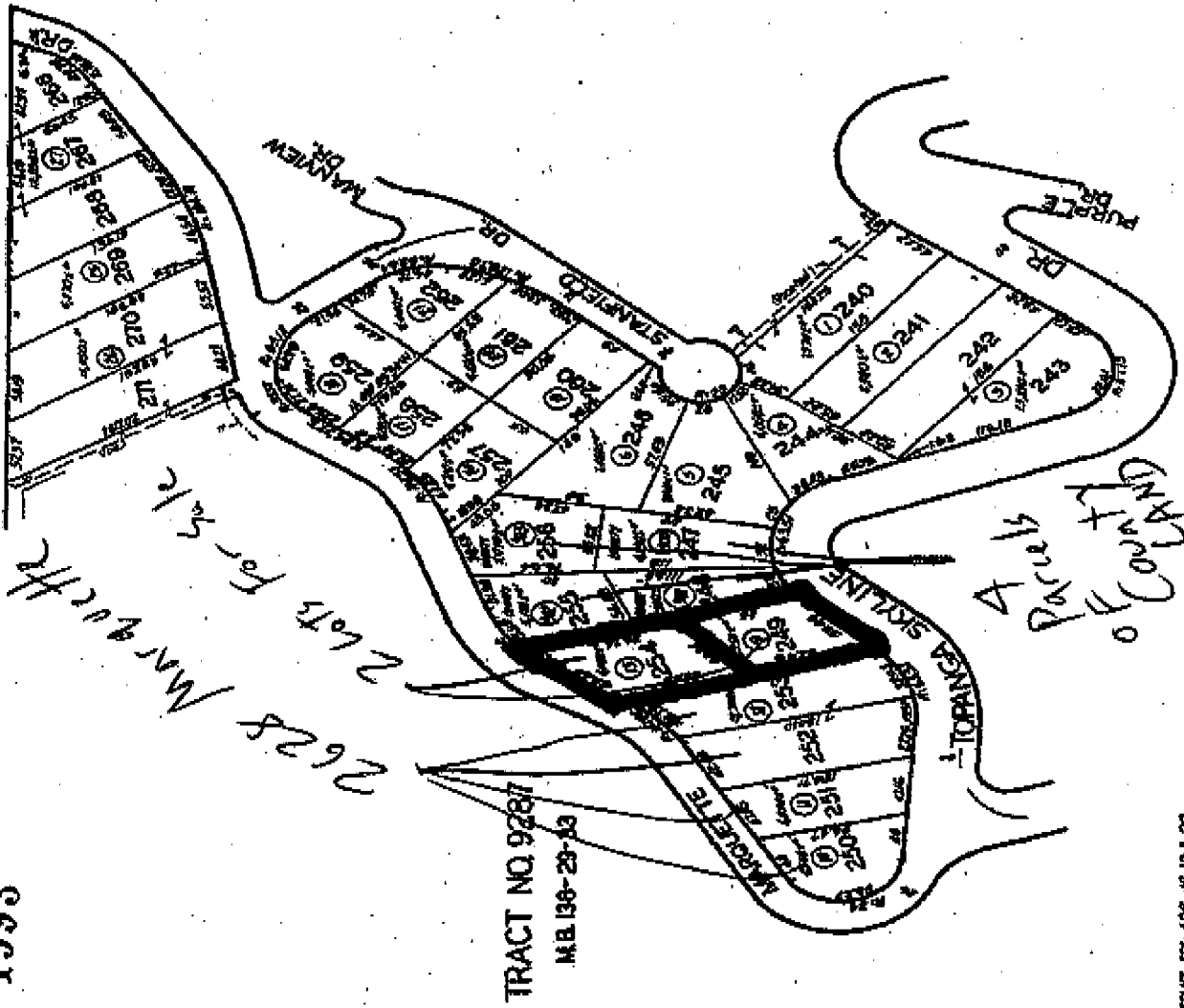
p. 2

RECORD
1-11-02
601000045
661129
69007600
Assessor

ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

1993

4436 | 16
SCALE = 80'

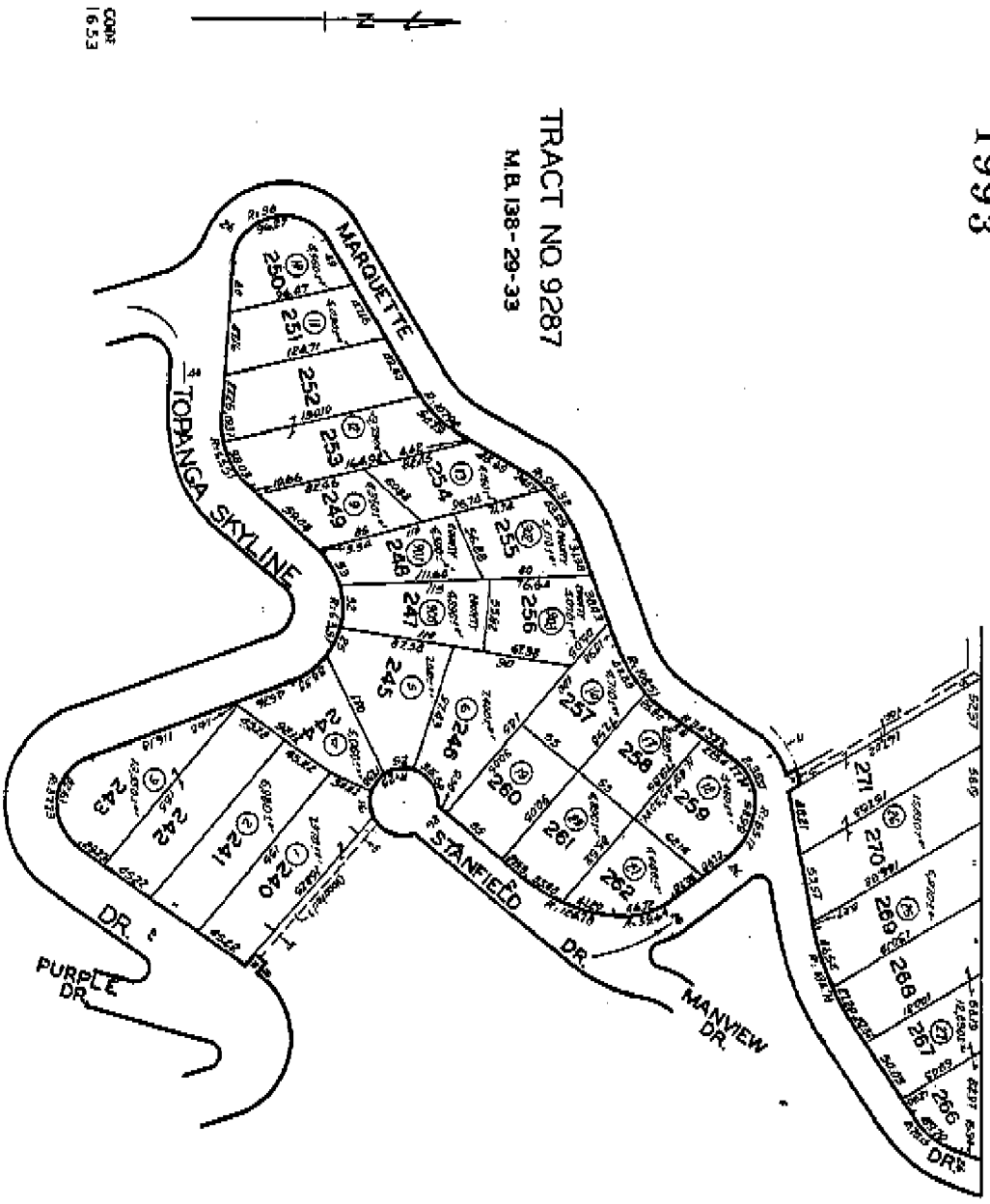


4436 16
SHEET = 80'

1993

County of Los Angeles, Rick Auerbach, Assessor

TRACT NO 9287
M.B. 138-29-33



CONTR
1653

FOR PREV. ASSM'T. SEE: 496-16, 18 & 22

LEVERED
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ASSESSOR'S MAP
COUNTY OF LOS ANGELES, CALIF.

May 2, 2005

TO: Sree Kumar
Design Division

Attention Ross Ghayimi

FROM: Reza Izadi 
Geotechnical and Materials Engineering Division

MARQUETTE DRIVE AT MILE MARKER 0.1 RETAINING WALL RECOMMENDATIONS

In response to your request, we have prepared the following soldier pile retaining wall recommendations for the subject project.

Background

A shallow slump removed support from the outboard lane of the roadway at the subject site. It is our understanding that the proposed project includes the construction of a soldier pile retaining wall approximately 200 feet in total length along the outboard shoulder of Marquette Drive.

Geologic Setting

The site is located in the central Santa Monica Mountains, an east-trending range within the Transverse Ranges geomorphic province of Southern California. Most of the site vicinity is underlain by marine sedimentary rocks of the Calabasas Formation of middle Miocene age (about 15 million years old). Geologic mapping by Yerkes and Campbell (1980) indicates that the western part of the site vicinity is underlain by basalt dikes and sills that were intruded into the sedimentary rocks. The basaltic rocks are also middle Miocene in age, being slightly younger than the Calabasas Formation. Yerkes and Campbell also mapped an ancient landslide that may extend into the western part of the study area.

Orientation of bedding in rocks exposed in the roadcut on the north side of Marquette Drive is favorable in terms of slope stability, with gentle dips toward the north-northeast. Subsurface bedding attitudes are also favorable for stability, with dips of 30 to 35 degrees toward the north-northeast. Rocks exposed in the roadcut are thin- to medium-bedded sandstone and siltstone.

The subsurface distribution of sedimentary (siltstone and sandstone) and volcanic (basalt) rocks suggests the presence of either a large, deep-seated landslide or else one or more faults. The variation in the water table within the study area suggests the

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Page 2

presence of a groundwater barrier, which could result either from faulting or from clay seams along landslide boundaries. In the eastern part of the subject area, the water table was encountered at depths of 10 to 15 feet in Borings B-1, B-2, B-3, B-6, and B-7. In the western part of the area, virtually no groundwater was found to a depth of 40 feet in Borings B-5 and B-8. Only minor seepage was encountered in Boring B-4, which had a total depth of 22 feet.

A slope failure that occurred at this location in 1979 involved fill material. That failure is described in a brief report by the Los Angeles Department of County Engineer, dated June 15, 1979. Like the 1979 failure, the present failure appears to be limited to fill material and possibly colluvium. The 1979 report also identified a seepage zone near the base of the road fill exposed in the main scarp of the slope failure. As appears to be the case with the 2005 failure, the 1979 slope failure was attributed to saturation of the soil by above-average seasonal rainfall. The 1979 report recommended the installation of a subdrain in the seepage area. It also recommended placement of a retaining structure to protect the outboard edge of the road.

Site Conditions

1. The onsite soils encountered during the exploratory borings consist predominantly of road fill and colluvium overlying weathered and relatively competent bedrock. The road fill and colluvial material consist of silty sand with gravel and clayey sand with gravel in a loose to medium dense condition.
2. Seeps were encountered in Boring B-4 at 11 feet and Boring B-5 at 31 feet.
3. Caving was encountered at various depths in Borings B-1 through B-4. Specific depths are noted on the logs of borings.
4. Bedrock was encountered in Borings B-2, B-5, B-6, and B-7, and depths are noted on the logs of borings and select figures.
5. Based on the results of laboratory tests on selected samples, the onsite soils contain a maximum of 4500 parts per million (ppm) of soluble sulfates and less than 2000 ppm of chlorides. The pH level is 5.7 to 6.2. The resistivity level of the soil samples was measured to be 1500 ohm-cm. The results indicate the onsite soils are corrosive to both ferrous metals and concrete.

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Findings and Conclusions

1. The roadway and slope distress appear to be the result of soil slumping caused by intense rainfall and ensuing saturation of the slope.
2. Stabilization of the roadway utilizing a soldier pile retaining wall is feasible from a geotechnical engineering standpoint.
3. The depth to bedrock suitable for support of the proposed retaining structures is indicated on the logs of borings and geologic cross sections (Figures 2 to 5).
4. Special protection against soluble sulfates will be required for concrete construction.

Recommendations

In order to reestablish support to the existing roadway, construction of a soldier pile retaining wall consisting of H-piles with concrete lagging is recommended along the outboard margin of the roadway. The retaining structure may be tied back into a concrete deadman.

1. The H-piles shall be adequately embedded into the relatively competent bedrock and if necessary, tied back into a concrete deadman located along the inboard margin of the roadway. The concrete deadman shall also be founded in the relatively competent bedrock material.
2. The approximate depths to the relatively competent bedrock are noted on the logs of borings and on Figures 2 to 5.
3. Lagging shall extend a minimum depth of three feet below the adjacent grade.
4. Additional lagging may be required as loose material moves away from the proposed wall. Therefore, use slurry above the relatively competent bedrock contact to the bottom of the proposed lagging (Figure 6). As loose material moves and exposes the piles, slurry may be removed and replaced with lagging at that time.

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5. Based on laboratory test results, the following Equivalent Fluid Pressures (E.F.P.) may be used in the design of the proposed retaining structures:

H-Piles

Active E.F.P.: 42 pcf*

*Active E.F.P. should extend from road grade to the relatively competent bedrock.

Allowable Passive E.F.P.: 300 pcf (relatively competent bedrock)

The maximum passive pressure shall be limited to 3000 psf. Maximum passive pressure may be increased by a factor of two for piles with a minimum lateral spacing of three times the diameter of the proposed piles. Only bedrock should be relied upon for passive resistance.

Deadman

Allowable Passive E.F.P.: 500 pcf (relatively competent bedrock)

The maximum passive pressure should be limited to 5000 psf. Only bedrock shall be relied upon for passive resistance.

6. The recommended Active E.F.P. does not include traffic surcharge.
7. The pile installation procedures shall comply with Section 305-1.3 of the Standard Specifications for Public Works Construction.
8. Excavations should be observed by a representative of our Division to confirm the anticipated subsurface conditions described in this report.
9. Backfill directly behind the retaining structure shall consist of a blanket of free-draining granular material or geo-composite drain material such as Miradrain 6000 (Figure 2).
10. Weepholes shall be placed a maximum of 10 feet on center.
11. Recommendations regarding temporary stability may be provided during construction.

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12. The colluvial material is suitable for use as backfill for the retaining wall. Representative samples of imported material shall be approved by a soils engineer from our Division prior to placement.
13. Submit the preliminary and final design plans and specifications to us for review and approval.
14. Notify us at least five days prior to the start of construction at (626) 458-4925 for observation of the subsurface conditions.
15. The completed logs of borings are attached and will be electronically sent to you. The final logs of borings sheets should be forwarded to us for review.

Limitations

This report has been prepared for the exclusive use of Public Works for the specific site discussed herein. This report should not be considered transferable to other sites or projects.


In the event that any modification in the design, configuration, or use of the site is implemented, the conclusions and recommendations contained in this report are no longer valid.

This study was conducted according to generally accepted geotechnical engineering practice for projects of this magnitude. The findings, conclusions, and recommendations in this report are based on the field and laboratory investigations combined with an extrapolation of soil conditions beyond the boring locations. Our conclusions and recommendations are professional opinions and are not meant to be a control of nature; therefore, no warranty is herein expressed or implied.

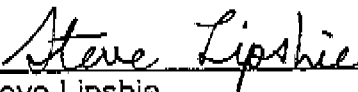
Sree Kumar
May 2, 2005
Page 6

If you have questions regarding this matter, please contact Patrick Cowley or Mark Steuer at (626) 458-4925.

Prepared by:



Jeremy Wan
Senior Civil Engineering Assistant




Steve Lipshie
Engineering Geologist

JW/SRL:sh
P:\GMEPUB\SEC\SOILS\IN\MARQUETTE DRIVE MM0.1

Attach.


cc: Design (Hennessee)
Programs Development (Sheridan)
Road Maintenance (Lehman, Grindle)

Reviewed by:



T. Patrick Cowley
Associate Civil Engineer





Mark Steuer
Civil Engineer






REFERENCES

1. Standard Specifications for Public Works Construction, 2003 Edition.
2. Additions and Amendments to the Standard Specifications for Public Works Construction, 2003 Edition.
3. Naval Facilities Engineering Command (NAVFAC) Design Manual 7.01, September 1986.
4. Naval Facilities Engineering Command (NAVFAC) Design Manual 7.02, September 1986.
5. Yerkes, R. F.; and Campbell, R. H.; 1980. Geologic Map of East-Central Santa Monica Mountains, Los Angeles County, California: U.S. Geological Survey Miscellaneous Investigations Series Map I-1146, scale 1:24,000.
6. Los Angeles Department of County Engineer, 1979, Preliminary Geologic Report, Marquette Road Failure M.O. 3698-66074: Report dated June 15, 1979, to County Road Commissioner, 4 p., 3 figs.

GEOTECHNICAL LOGS OF BORINGS


PROJECT ... MARQUETTE DRIVE @ M.M. 0.1
 LOCATION ... 10.5 FT. W/D HYDRANT
 ... 2.5 FT. N/O SOUTH EDGE OF PAVEMENT
 ELEVATION ... ± 203 FT.
 DATE DRILLED ... 03/16/05

BORING NO. B-1
 LOGGED BY: J.W.

Depth (ft.)	Graphic log	Soil Classification. Description	Dry Unit Wt. pcf	Moisture Content %	% Passing	
					No. 4	No. 200
0		18" AC				
5		SM. SILTY SAND WITH GRAVEL medium dense, very moist, medium brown @ 3.5', pockets of fine grained, cohesive dark brown material	102.1	14.8	80.1	20.6
10		@ 4', sandstone cobbles, decrease fine content, brown @ 7.5', caving @ 10.5', cobbles up to 8" across, coarse sand	107.6	13.7	72.8	18.4

End of boring @ 12 ft.
 Groundwater encountered @ 10 ft.
 No bedrock encountered.
 Caving encountered @ 7.5 ft.




PROJECT .. MARQUETTE DRIVE @ M.M. 0.1 BORING NO. B-2
 LOCATION .. 48 FT. W/O HYDRANT ON NORTH SIDE OF STREET LOGGED BY: J.W.
 .. 4.5 FT. N/O NORTH EDGE OF PAVEMENT
 ELEVATION .. ±201 FT.
 DATE DRILLED 03/16/05

Depth (ft.)	Graphic log	Soil Classification. Description	Dry Unit Wt. pcf	Moisture Content %	% Passing	
					No. 4	No. 200
0		GM. SILTY GRAVEL WITH SAND medium dense, moist, medium brown fine sand, few rootlets @ 2', cobbles up to 6" across			57.0	16.2
5		@ 2.5', dense, brown, increase gravel content, switched to coring bucket				
10		@ 4', boulders up to 14" across @ 7', weathered bedrock				
15		BEDROCK (BASALT) @ 10', wet				

End of boring @ 11.5 ft.
 Groundwater encountered @ 10.5 ft.
 Bedrock encountered @ 7 FT.
 Caving in upper @ 5 ft.

PROJECT MARQUETTE DRIVE @ M.M. 0.1.....
 LOCATION 52 FT. W/O HYDRANT.....
 14 FT. S/O NORTH EDGE OF PAVEMENT.....
 ELEVATION ± 202 FT.....
 DATE DRILLED 03/16/05.....






BORING NO. B-3.....
 LOGGED BY: J.W.....

Depth (ft.)	Graphic log	Soil Classification. Description	Dry Unit Wt. pcf	Moisture Content %	% Passing	
					No. 4.	No. 200
0		14" AC				
5		SM. SILTY SAND WITH GRAVEL medium dense, moist, light to medium brown @ 5', weathered bedrock @ 8', increase fine content, caving	105.5	12.0	63.5	16.0
10		@ 10', increase cobble content, up to 10" across @ 12', cobbles up to 12" across	124.7	10.8		

End of boring @ 12 ft.
 Groundwater encountered @ 10 ft.
 No bedrock encountered.
 Caving encountered @ 8 ft.

PROJECT MARQUETTE DRIVE @ M.M. 0.1
 LOCATION 92 FT. W/O HYDRANT
 2.5 FT. S/O NORTH EDGE OF PAVEMENT
 ELEVATION ±202 FT.
 DATE DRILLED 03/17/05










BORING NO. B-4
 LOGGED BY: J.W.

Depth (ft.)	Graphic log	Soil Classification, Description	Dry Unit Wt. pcf	Moisture Content %	% Passing	
					No. 4	No. 200
0		14" AC				
5		SM, SILTY SAND WITH GRAVEL medium dense, moist, light brown @ 5', very moist, weathered bedrock @ 6', increase cobble content up to 4" across @ 7.5' medium brown, little sandstone boulders	97.0	16.8		
10		SC, CLAYEY SAND WITH GRAVEL very dense, very moist, medium grey, with bands of orange-brown, moderately plastic @ 9.5', dark brown @ 10.5', increasing plasticity	105.4	16.6	75.6	32.5
15		SM, SILTY SAND medium dense, very moist, medium brown	105.9	18.5	100	41.4
20		SC, CLAYEY SAND very dense, very moist, medium brown	111.1	17.7		
25						

End of boring @ 22 ft.
 No groundwater encountered.
 No bedrock encountered.
 Minor caving in upper 10 ft.

PROJECT MARQUETTE DRIVE @ M.M. 0.1
 LOCATION 137 FT. W/O HYDRANT
 12 FT. N/O SOUTH EDGE OF PAVEMENT
 ELEVATION ±203 FT.
 DATE DRILLED 03/18/05

BORING NO. B-5
 LOGGED BY: J.W.

Depth (ft.)	Graphic log	Soil Classification: Description	Dry Unit Wt. pcf	Moisture Content %	% Passing	
					No. 4	No. 200
0		11" AC				
5		SM. SILTY SAND medium dense, very moist, dark brown @ 4', weathered bedrock	95.7	23.5	88.3	29.8
10		BEDROCK (SILTSTONE)	91.8	25.9	89.0	29.4
15		@ 12', orange-dark brown @ 13', dark brown @ 15', grey	104.7	22.1		
20			105.3	19.9	59.6	14.4
25			121.1	6.5		
30		@ 28', greyish brown @ 30', yellowish brown	133.5	3.9		
35		BEDROCK (BASALT)				
40						

End of boring @ 40 ft.
 No groundwater encountered.
 Bedrock encountered @ 5 ft.
 No caving encountered.

PROJECT MARQUETTE DRIVE @ M.M. 0.1
 LOCATION 18 FT. W/O HYDRANT
 9 FT. S/O SOUTH EDGE OF PAVEMENT
 ELEVATION ±202 FT.
 DATE DRILLED 04/18/05

BORING NO. B-6
 LOGGED BY: J.W.

Depth (ft.)	Graphic log	Soil Classification. Description	Dry Unit Wt. pcf	Moisture Content %	% Passing	
					No. 4	No. 200
0		SP. POORLY GRADED SAND WITH GRAVEL loose, moist, medium brown. gravels up to 1" across				
5		SC. CLAYEY SAND dense, moist, medium brown. cobbles up to 4" across @ 7', reddish brown @ 10', medium dense	104.3	17.1	88.2	33.3
10			94.5	22.6	89.5	46.2
15		BEDROCK (BASALT/SANDSTONE)				
20						
25						
30						
35						
40						

End of boring @ 34 ft.
 Groundwater encountered @ 13 ft.
 Bedrock encountered @ 16 ft.
 No caving encountered.

PROJECT MARQUETTE DRIVE @ M.M. 0.1
 LOCATION 70 FT. W/O HYDRANT
 10 FT. S/O SOUTH EDGE OF PAVEMENT
 ELEVATION ±199 FT.
 DATE DRILLED 04/19/05

BORING NO. B-7
 LOGGED BY: J.W.

Depth (ft.)	Graphic log	Soil Classification, Description	Dry Unit Wt. pcf	Moisture Content %	% Passing	
					No. 4	No. 200
0		CL. SANDY LEAN CLAY stiff, very moist, dark brown, gravels up to 3" across				
5		@ 7', reddish brown, increase gravel content @ 8', dark brown	101.1	24.4	89.3	56.9
10		CH. SANDY FAT CLAY soft, very wet, dark brown @ 12', bands of orange-brown, trace gravels up to 1" across @ 14', reddish brown	76.8	35.5	94.9	54.1
15		BEDROCK (BASALT)				
20						
25						
30						
35						
40						

End of boring @ 31 ft.
 Groundwater encountered @ 13 ft.
 Bedrock encountered @ 14 ft.
 No caving encountered.

NOTES

1. Soils were classified based on ASTM D2487 and ASTM D2488.
2. Group symbols and soil descriptions are based on the Unified Soil Classified System. (Standard Plan No. 3093-1) Laboratory classification on criteria were used, unless otherwise indicated.
3. Boring Nos. B-1 to B-5 were drilled with a calweld bucket auger rig using a 24-inch diameter bucket.
4. Boring Nos. B-6 to B-8 were drilled with a Lo-Drill rig using a 24-inch O.D. flight auger.
5. Ground water was encountered at various depths in Boring Nos. B-1 to B-3, B-6, and B-7.
6. Bedrock was encountered at various depths in Boring Nos. B-2, B-5, B-6, and B-7.
7. Caving was encountered at various depths in Boring Nos. B-1 to B-4.
8. Soil conditions in exploratory borings are applicable at a specified location using above drilling equipment on the date drilled. No warranty is made as to varying soil conditions between and beyond boring location during excavation.

SYMBOLS



Depth to groundwater

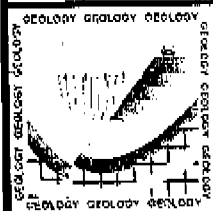
GEOLOGIC LOGS OF BORINGS

SUMMARY LOG OF BORING

Boring Location: 10½' W/O fire hydrant, 2½' N/O S edge of pavement	Elevation: 203'	Boring Number: B-1
Drilling Company: LACDPW Flood Maintenance Division	Depth to Water: 10'	Depth of Boring: 12'
Drilling Equipment: Calweld bucket auger, with 24" bucket	Monitoring Well Installed: Yes <input type="radio"/> No <input checked="" type="radio"/>	
Drilling Dates: March 16, 2005	Logged By: Steve Lipshie	

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Lithologic descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

DEPTH (FEET)	LITHOLOGIC DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		GRAPHIC LITHOLOGY	USCS	BLOW COUNT DEPTH INTERVAL (ft)	BLOW COUNT <small>does not comply with ASTM 1396</small>	SAMPLE NUMBER	SAMPLE INTERVAL (feet)	
0	0 - 18": ASPHALT.		SM					@ 9:00 a.m., hand augered to 4½'; stopped because of rocks.
5	18" - 4': SAND, SILTY, medium brown, moist; sand is very fine to fine grained; with common sandstone fragments, medium yellow-brown, fine- to medium-grained, angular, 1 - 4" across. @ 3 - 3½', silty sand color is dark brown. @ 4', sandstone cobble, as above, subangular, 6" across.	[Symbol: dots and small circles]	SW SP	5 - 6.5	1/18"	1R 2B	5 - 6.5 5 - 6	@ 9:10, began drilling. Prob. weathered rock below 6' (possibly rock below 4').
10	4 - 6': SAND, med. reddish brown to med. yellowish brown, very fine to medium-grained (mostly fine), moist, with scattered sandstone fragments, as above, ~ ½ - 2" across.	[Symbol: dots and small circles]	SW	10.5 - 12	1/18"	3R 4B	10.5 - 12 10.5 - 11.5	Caving below 7½' on N and E sides of boring. Competent rock below ~ 10'. Water @ 10'. @ 9:50, stopped drilling.
15	6 - 10': SAND, dark brown to dark reddish brown, fine-grained, moist. @ 10', sand is wet.							
20	10 - 12'+: SAND, GRAVELLY, dark brown, wet; sand is fine to medium grained, mostly fine; gravel is basalt, medium blue-gray, hard, consisting of pebbles, angular to subrounded, and cobbles, subrounded, up to 8" across. @ 10½', quartzite cobble, well-rounded, 8" across. @ 12', basalt cobble, subrounded, 10" across.							
25								
30	TOTAL DEPTH = 12 ft Not downhole logged							



GEOLOGY SECTION
Geotechnical and
Materials Engineering Division

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS

MARQUETTE DRIVE @ M.M. 0.1
TOPANGA CANYON AREA

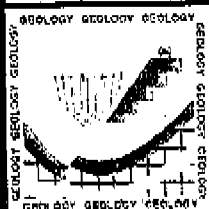
Date: 3/24/05	Prepared by: S. Lipshie	Page: 1 of 1
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SUMMARY LOG OF BORING

Boring Location: 48' W/O fire hydrant, 4 1/2' N/O N edge of pavement	Elevation: 201'	Boring Number: B-2
Drilling Company: LACDPW Flood Maintenance Division	Depth to Water: 10 1/2'	Depth of Boring: 11 1/2'
Drilling Equipment: Calweld bucket auger, with 24" bucket	Monitoring Well Installed: Yes <input type="radio"/> No <input checked="" type="radio"/>	
Drilling Dates: March 16, 2005	Logged By: Steve Lipshie	

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Lithologic descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

DEPTH (FEET)	LITHOLOGIC DESCRIPTION	LOG DATA			SAMPLE DATA		REMARKS
		GRAPHIC LITHOLOGY	USCS	BLOW COUNT DEPTH INTERVAL (ft)	BLOW COUNT does not comply with ASTM 1586	SAMPLE NUMBER		SAMPLE INTERVAL (feet)
0	0 - 2': SAND, SILTY, medium brown, moist; sand is very fine to fine grained; with scattered sandstone gravel, 1/2 - 2" across; roots and rootlets common. 2 - 7': GRAVEL, SILTY SANDY, medium brown; sand is very fine to fine grained; gravel has basalt cobbles, subrounded, up to 10" across. Below 4', basalt blocks up to 14" across; mostly subangular, some subrounded; fragments > 6" across common. 7 - 11 1/2': BASALT(?), large angular blocks, medium blue-gray, very hard, up to 18" across.		SM GM			1B 4 - 5	@ 10:55 a.m., hand augered to 2 1/4'; stopped because of rocks. @ 11:00, began drilling. Changed to core barrel @ 4'. Lunch break, 11:40 to 12:20. Below 6', very slow drilling (probably rock @ 6', possibly rock at 4'). Water @ 10 1/2'. @ 13:30, stopped drilling.
15								TOTAL DEPTH = 11 1/2 ft Not downhole logged
20							
25							
30							



GEOLOGY SECTION
 Geotechnical and
 Materials Engineering Division

LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS

MARQUETTE DRIVE @ M.M. 0.1
TOPANGA CANYON AREA

Date: 3/24/05

Prepared by: S. Lipshie

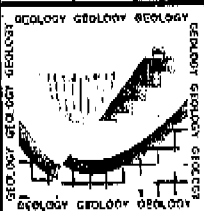
Page: 1 of 1

SUMMARY LOG OF BORING

Boring Location: 52' W/O fire hydrant, 14' S/O N edge of pavement	Elevation: 202'	Boring Number: B-3
Drilling Company: LACDPW Flood Maintenance Division	Depth to Water: 10'	Depth of Boring: 12'
Drilling Equipment: Catweld bucket auger, with 24" bucket	Monitoring Well Installed: Yes <input type="radio"/> No <input checked="" type="radio"/>	
Drilling Dates: March 17, 2005	Logged By: Steve Lipshie	

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Lithologic descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

DEPTH (FEET)	LITHOLOGIC DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		GRAPHIC LITHOLOGY	USCS	BLOW COUNT DEPTH INTERVAL (ft)	BLOW COUNT <small>Does not comply with ASTM 1586</small>	SAMPLE NUMBER	SAMPLE INTERVAL (feet)	
0	0 - 14": ASPHALT.							Boring is 3' N/O main scarp. @ 8:05 a.m., hand augered to 5'. @ 8:20, began drilling with core barrel. Caving below 8'. Probably bedrock below 9'. Water @ 10'. @ 9:10, stopped drilling.
5	14 - 18": SAND, SILTY, medium brown, sl. moist; sand is very fine to medium grained; w/ common sandstone frags., angular to subangular, 1/2 - 2" across. 18 - 23": SAND, light yellow-brown, fine- to medium-grained, slightly moist. 23" - 10': SAND, GRAVELLY, med. brown, moist, with SILT; sand is very fine to fine grained; with abundant sandstone fragments, light yellow-brown to light reddish brown, angular to subangular, 1/2 - 9" across.	SM SW SW-SM SM		4.5 - 6	1/18"	1R 2B	4.5 - 6 4.5 - 5.5	
10	Below 5', gravel is weathered basalt, sub-rounded to subang., up to 4" across. Below 6', more silt (but still mostly sand). Below 9', gravel is relatively fresh basalt; blocks more abundant, mostly sub-angular, up to 10" across. 10 - 12'+: GRAVEL, SANDY, as @ 23" - 10', but with more abundant blocks of fresh basalt, angular, ~ 4 - 12" across.	GM		9.5 - 11	6/18"	3R 4B	9.5 - 11 9.5 - 10.5	
20	TOTAL DEPTH = 12 ft Not downhole logged							



GEOLOGY SECTION
Geotechnical and
Materials Engineering Division

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS

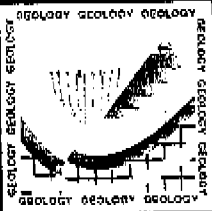
MARQUETTE DRIVE @ M.M. 0.1
TOPANGA CANYON AREA

SUMMARY LOG OF BORING

Boring Location: 92' W/O fire hydrant, 2 1/2' S/O N edge of pavement	Elevation: 202'	Boring Number: B-4
Drilling Company: LACDPW Flood Maintenance Division	Depth to Water: ~ 11'	Depth of Boring: 22'
Drilling Equipment: Calweld bucket auger, with 24" bucket	Monitoring Well Installed: Yes <input checked="" type="radio"/> No <input type="radio"/>	
Drilling Dates: March 17, 2005	Logged By: Steve Lipshie	

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Lithologic descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

DEPTH (FEET)	LITHOLOGIC DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		GRAPHIC LITHOLOGY	USCS	BLOW COUNT DEPTH INTERVAL (ft)	BLOW COUNT <small>does not comply with ASTM 1586</small>	SAMPLE NUMBER	SAMPLE INTERVAL (feet)	
0	0 - 14": ASPHALT.	[Asphalt Pattern]	SM					@ 12:10 a.m., hand augered to 5'. @ 12:20, began drilling.
5	14 - 8": SAND, SILTY, light yellow-brown, moist; sand is very fine to medium grained, mostly fine; with scattered gravel, mostly sandstone, 1/2 - 2" across. Below 3', color is medium brown. @ 3 - 4', pebbles of quartz diorite and quartzite, subangular to subrounded, 1 - 2" across.	[Sandy Pattern]	SM-SP	6 - 7.5	3/18"	1R 2B	6 - 7.5 6 - 7	
10	Below 5', common rock frags., weathered basalt, mostly subang., up to 4" across. @ 7 1/2', siltstone frags., ~ 2" across; quartzitic sandstone boulder, 2' across.	[Rock Frags. Pattern]	ML					Minor caving in upper 10'.
15	8 - 13': SILT, CLAYEY, mottled med. gray and med. orange-brown, sl. plastic, slightly moist, moderately soft. Below 9 1/2', material is dark brown, mod. plastic, with abund. frags. of siltstone, dark brown, angular, up to 1" across.	[Silt/Clay Pattern]	ML-GM	10.5 - 12	4/18"	3R 4B	10.5 - 12 10.5 - 11.5	Seepage of water @ 11 - 12'. Probably bedrock below 14'.
20	13 - 14': SAND, SILTY, med. brown, moist; sand is very fine to fine grained; with abundant sandstone fragments, as above.	[Sandy Pattern]	SM					
25	14 - 22'+: SILT, SANDY, dark brown; moist to wet; sand is very fine to fine grained; with abundant siltstone fragments, as above, up to 4" across. Below 15', minor clay, slightly plastic (still predominantly sandy silt). Below 17', less clay.	[Silty Silt Pattern]	ML-GM	15 - 16.5	5/18"	5R 6B	15 - 16.5 15 - 16	
30	TOTAL DEPTH = 22 ft Not downhole logged			20 - 21.5	10/18"	7R 8B	20 - 21.5 20 - 21	@ 14:00, stopped drilling.



GEOLOGY SECTION
Geotechnical and
Materials Engineering Division

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS

MARQUETTE DRIVE @ M.M. 0.1
TOPANGA CANYON AREA

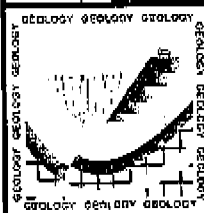
Date: 3/24/05	Prepared by: S. Lipshie	Page: 1 of 1
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SUMMARY LOG OF BORING

Boring Location: 137' W/O fire hydrant, 12' N/O S edge of pavement	Elevation: 204'	Boring Number: B-5
Drilling Company: LACDFW Flood Maintenance Division	Depth to Water: None	Depth of Boring: 40'
Drilling Equipment: Calweld bucket auger, with 24" bucket	Monitoring Well Installed: Yes <input type="radio"/> No <input checked="" type="radio"/>	
Drilling Dates: March 18, 2005	Logged By: Steve Lipshie	

Note: This log contains observations and interpretations that are valid only for the specific data and location of the boring. Subsurface conditions vary between borings and with time. Lithologic descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

DEPTH (FEET)	LITHOLOGIC DESCRIPTION	LOG DATA				SAMPLE DATA		REMARKS
		GRAPHIC LITHOLOGY	USCS	BLOW COUNT DEPTH INTERVAL (ft)	BLOW COUNT <small>does not comply with ASTM 1586</small>	SAMPLE NUMBER	SAMPLE INTERVAL (feet)	
0	0 - 11": ASPHALT. 11" - 4": SILT, CLAYEY, mottled med. brown and dark brown, slightly moist, slightly to moderately plastic. Below 3', less clayey (slightly plastic).		SM					@ 7:40 a.m., hand augered to 5'. @ 7:50, began drilling.
5	4 - 32': SILTSTONE, light yellow-brown to dark brown where weathered, dark gray where fresh, thin-bedded, soft, slightly moist. @ 5', strike and dip of siltstone bedding is N 65° W, 33° NE. Below 9', color is medium orange-brown to dark brown. @ 11', strike and dip of siltstone bedding is N 75° W, 35° (+5°) NE. Between ~ 14' and 21', scattered calcite veins (mostly < 0.1" thick, but up to 0.2" thick). Below 15', color is mostly dk. brown-gray. Between 18' and 27', siltstone has blocky fracture, closely spaced (2 - 4" spacing), variously oriented. @ 23', strike and dip of siltstone bedding is N 60° W, 28° NE.			5 - 6.5	5/18"	1R 2B	5 - 6.5 5 - 6	
10				10 - 11.5	5/18"	3R 4B	10 - 11.5 10 - 11	
15				14.5 - 16	10/18"	5R 6B	14.5 - 16 14.5 - 15.5	
20				20 - 21.5	9/18"	7R 8B	20 - 21.5 20 - 21	
25				25 - 26.5	20/18"	9R 10B	25 - 26.5 25 - 26	
30								



GEOLOGY SECTION
Geotechnical and
Materials Engineering Division

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS

MARQUETTE DRIVE @ M.M. 0.1
TOPANGA CANYON AREA

Date: 3/24/05

Prepared by: S. Lipshie

Page: 1 of 2

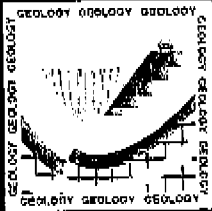
SUMMARY LOG OF BORING

Boring Location: 131' W/O fire hydrant, 9' S/O S edge of pavement	Elevation: 198'	Boring Number: B-8
Drilling Company: Roy Brothers	Depth to Water: None	Depth of Boring: 40'
Drilling Equipment: LoDriL Model 315BL, with 24" flight auger	Monitoring Well Installed: Yes <input checked="" type="radio"/> No <input type="radio"/>	
Drilling Dates: April 20, 2005	Logged By: Steve Lipshie	

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Lithologic descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

DEPTH (FEET)	LITHOLOGIC DESCRIPTION	LOG DATA			SAMPLE DATA		REMARKS	
		GRAPHIC LITHOLOGY	USCS	BLOW COUNT DEPTH INTERVAL (ft)	BLOW COUNT <small>does not comply with ASTM 1586</small>	SAMPLE NUMBER		SAMPLE INTERVAL (feet)
0	0 - 2': CLAY, SANDY, medium brown, mod. plastic, moist; sand is very fine to fine grained; abundant wood fragments (old retaining wall) and rocks.		CL					@ 8:15 a.m., began drilling.
5	2 - 6': SAND, CLAYEY, med. grayish brown, slightly plastic, moist; sand as above; abund. ang. rock frags. (siltstone and sandstone), up to 2" across; abundant roots, rootlets, and wood fragments.		SC					Below 6', slower drilling.
10	6 - 9': BROKEN ROCK: Blocks and fragments of quartzose sandstone, siltstone, and basalt, up to 2' across.							
15	9 - 31': BASALT, highly weathered, medium red-brown, soft.							
20	@ 21', steeply dipping slickensides with various orientations; prominent slickenside is oriented N 35° W, 57° NE.							
25	@ 22', prominent slickenside is oriented N 48° W, 52° NE.							
30	@ 24', steeply dipping slickensides with various orientations. Below 24', basalt is less highly weathered.							

Comp rock
 @ 23'
 Elev. 175



GEOLOGY SECTION
 Geotechnical and
 Materials Engineering Division

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS


MARQUETTE DRIVE @ M.M. 0.1
TOPANGA CANYON AREA

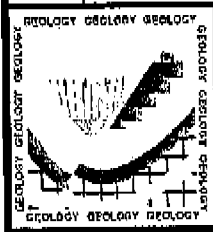
Date: 4/25/05	Prepared by: S. Lipshie	Page: 1 of 2
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SUMMARY LOG OF BORING (Continued)

Boring Location: 131' W/O fire hydrant, 9' S/O S edge of pavement **Depth of Boring:** 40' **Boring Number:** B-8
Drilling Dates: April 20, 2005 **Logged By:** Steve Lipshie

Note: This log contains observations and interpretations that are valid only for the specific date and location of the boring. Subsurface conditions vary between borings and with time. Lithologic descriptions are derived using visual classification methods and may vary from descriptions/classifications based on laboratory testing.

DEPTH (FEET)	LITHOLOGIC DESCRIPTION	LOG DATA			SAMPLE DATA		REMARKS
		GRAPHIC LITHOLOGY	USCS	BLOW COUNT DEPTH INTERVAL (ft)	BLOW COUNT <small>does not comply with ASTM 1586</small>	SAMPLE NUMBER		SAMPLE INTERVAL
30	31 - 40'+: BASALT, medium blue-gray, fresh, moderately fractured, very hard. Below 35', basalt is less fractured.						Boundary between weathered and fresh basalt is very irregular and gradational. @ 9:50, stopped drilling.
35							
40	TOTAL DEPTH = 40 ft No groundwater No caving Downhole logged No soil samples collected						
45							
50							
55							
60							
65							



GEOLOGY SECTION
 Geotechnical and
 Materials Engineering Division

LOS ANGELES COUNTY
 DEPARTMENT OF PUBLIC WORKS

MARQUETTE DRIVE @ M.M. 0.1
TOPANGA CANYON AREA

Date: 4/25/05 **Prepared by:** S. Lipshie **Page:** 2 of 2

PLATE

INDEX TO STANDARD PLANS

- Citywide Department of Transportation (CALTRANS)
Standard Plans, July 2002
- 077A METR. 60" GROUND BUILT TYPICAL 2000 FRONT SIDE WOOD SLUIC
 - 077B METR. 60" GROUND BUILT TYPICAL STANDING WALL
 - 077C METR. 60" GROUND BUILT TYPICAL CURB
 - 077D METR. 60" GROUND BUILT AND WOOD FLOOR STANDING WALL
 - 08-1 ROAD DITCH
 - 08-17 ROAD DITCH
- Citywide Department of Public Works
Standard Plans, 1999

REFERENCES

ASBESTOS REPORT PAGE 43P-44P
SCHEDULE 15 DRAWING

GENERAL CONSTRUCTION NOTES

1. The Contractor shall verify all existing utility locations before starting or disturbing any existing utility.
2. All proposed slopes shall be constructed in accordance with the plans.
3. The Contractor shall ensure that all existing utilities are properly located and marked before any excavation or construction.
4. All excavations shall be properly shored and braced in accordance with the plans.
5. All foundations shall be constructed in accordance with the plans.
6. All structures shall be constructed in accordance with the plans.
7. All structures shall be constructed in accordance with the plans.
8. All structures shall be constructed in accordance with the plans.
9. All structures shall be constructed in accordance with the plans.
10. All structures shall be constructed in accordance with the plans.

STRUCTURAL NOTES

1. Reinforcing steel shall be placed in accordance with the plans.
2. All concrete shall be placed in accordance with the plans.
3. All concrete shall be placed in accordance with the plans.
4. All concrete shall be placed in accordance with the plans.
5. All concrete shall be placed in accordance with the plans.
6. All concrete shall be placed in accordance with the plans.
7. All concrete shall be placed in accordance with the plans.
8. All concrete shall be placed in accordance with the plans.
9. All concrete shall be placed in accordance with the plans.
10. All concrete shall be placed in accordance with the plans.

CONSTRUCTION LEGEND

- 1. Existing Concrete Footing
- 2. Proposed Concrete Footing

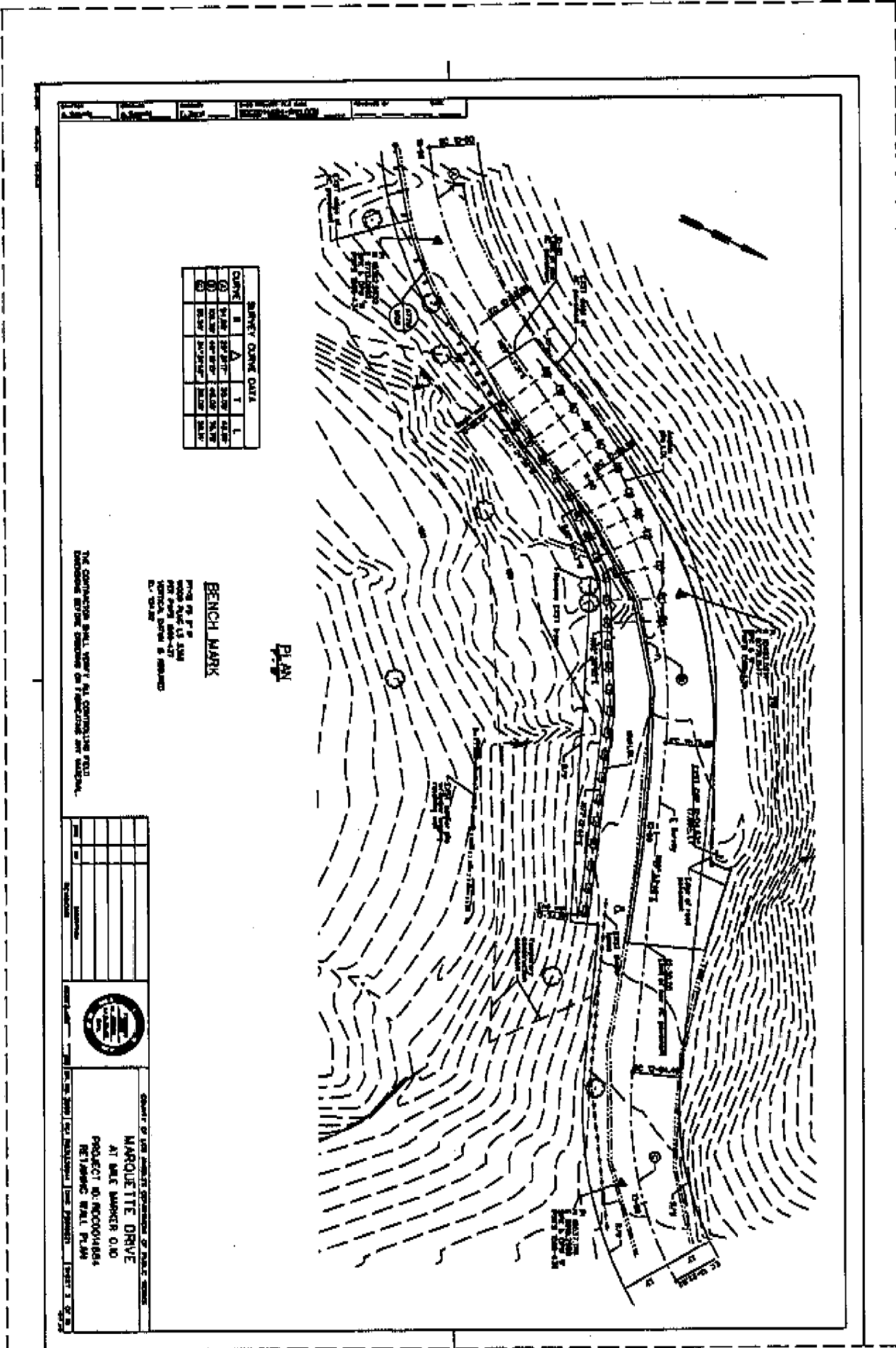
DESIGN AND CONSTRUCTION NOTES

- LOW FACTOR DESIGN
- CONCRETE
Cast-in-Place Concrete
Reinforcing Steel
Formwork
Curing Compound
- STEEL
Structural Steel
Welding
Paint
- WOOD
Formwork
Scaffolding
- SOILS
Excavation
Backfill
Compaction

ITEM	DESCRIPTION	QUANTITY	UNIT	PRICE
1.00	Excavation	100	cu yd	100.00
2.00	Backfill	100	cu yd	100.00
3.00	Formwork	100	sq ft	100.00
4.00	Reinforcing Steel	100	lb	100.00
5.00	Concrete	100	cu yd	100.00
6.00	Welding	100	hr	100.00
7.00	Paint	100	sq ft	100.00
8.00	Scaffolding	100	sq ft	100.00
9.00	Compaction	100	sq ft	100.00
10.00	Other	100	sq ft	100.00

PROJECT OF CITY AND COUNTY OF LOS ANGELES
MARQUETTE DRIVE
AT MILE MARSH 0.50
PROJECT B. RECORDS
NOTES AND REFERENCES

DATE: 03/02/07
DRAWN BY: [Name]
CHECKED BY: [Name]
APPROVED BY: [Name]



SURVEY CURVE DATA

CURVE	1	2	3	4	5	6
PC	1+15.00	1+15.00	1+15.00	1+15.00	1+15.00	1+15.00
PT	1+25.00	1+25.00	1+25.00	1+25.00	1+25.00	1+25.00
PI	1+20.00	1+20.00	1+20.00	1+20.00	1+20.00	1+20.00
EA	1+15.00	1+15.00	1+15.00	1+15.00	1+15.00	1+15.00
EB	1+25.00	1+25.00	1+25.00	1+25.00	1+25.00	1+25.00
EC	1+20.00	1+20.00	1+20.00	1+20.00	1+20.00	1+20.00

BENCH MARK

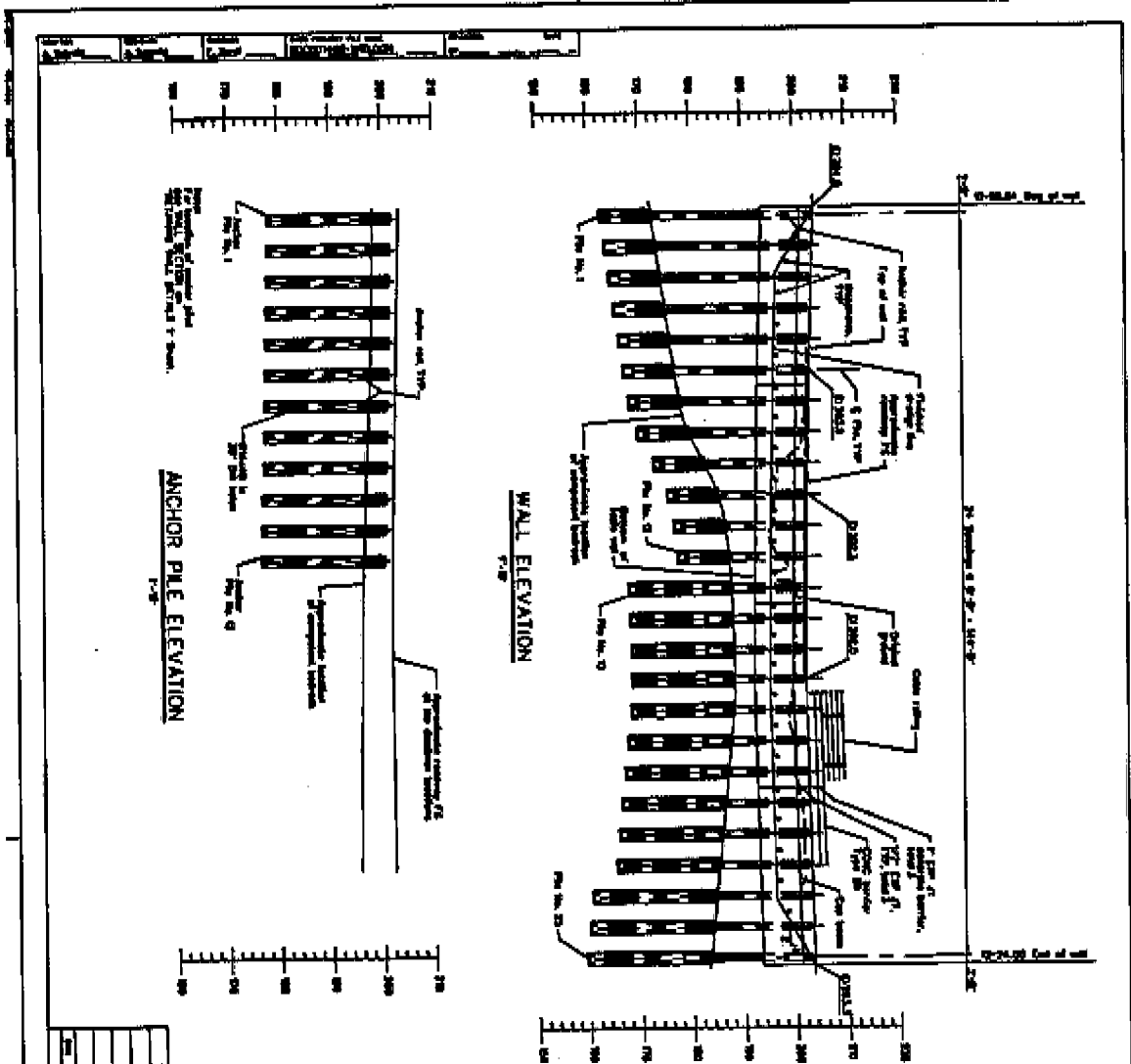
BM 1
 BM 2
 BM 3
 BM 4
 BM 5
 BM 6
 BM 7
 BM 8
 BM 9
 BM 10

THE CONTRACTOR SHALL VERIFY ALL CONTROLLING POINTS AND BENCHMARKS BEFORE COMMENCING CONSTRUCTION AND MAINTAIN THEM THROUGHOUT THE PROJECT.

NO.	DATE	REVISION



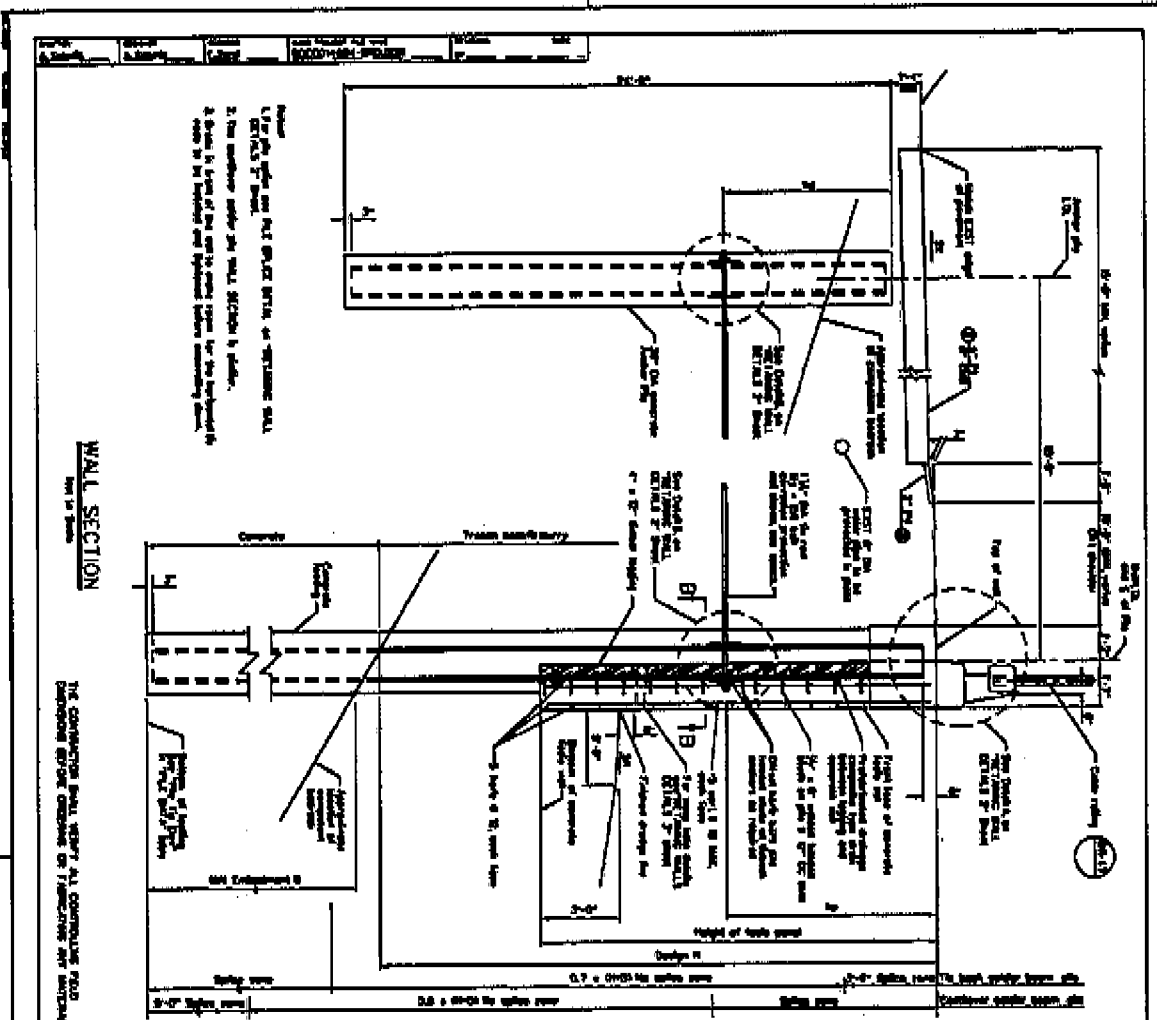
DEPARTMENT OF LAND AND SURVEY, GOVERNMENT OF MALAYSIA
MARQUETTE DRIVE
 AT BUKIT BARU, 040
 PROJECT NO: M00004884
 RETAINING WALL PLAN
 SHEET 3 OF 8



PILE LOCATION

PILE NO.	WALL ELEVATION	PILE NO.	WALL ELEVATION	TYPE OF PILE	LY. USED
1	W-12.14	24	W-17.24	WALLED	24
2	W-12.15	25	W-17.25	WALLED	24
3	W-12.16	26	W-17.26	WALLED	24
4	W-12.17	27	W-17.27	WALLED	24
5	W-12.18	28	W-17.28	WALLED	24
6	W-12.19	29	W-17.29	WALLED	24
7	W-12.20	30	W-17.30	WALLED	24
8	W-12.21	31	W-17.31	WALLED	24
9	W-12.22	32	W-17.32	WALLED	24
10	W-12.23	33	W-17.33	WALLED	24
11	W-12.24	34	W-17.34	WALLED	24
12	W-12.25	35	W-17.35	WALLED	24
13	W-12.26	36	W-17.36	WALLED	24
14	W-12.27	37	W-17.37	WALLED	24
15	W-12.28	38	W-17.38	WALLED	24
16	W-12.29	39	W-17.39	WALLED	24
17	W-12.30	40	W-17.40	WALLED	24
18	W-12.31	41	W-17.41	WALLED	24
19	W-12.32	42	W-17.42	WALLED	24
20	W-12.33	43	W-17.43	WALLED	24
21	W-12.34	44	W-17.44	WALLED	24
22	W-12.35	45	W-17.45	WALLED	24
23	W-12.36	46	W-17.46	WALLED	24
24	W-12.37	47	W-17.47	WALLED	24
25	W-12.38	48	W-17.48	WALLED	24
26	W-12.39	49	W-17.49	WALLED	24
27	W-12.40	50	W-17.50	WALLED	24
28	W-12.41	51	W-17.51	WALLED	24
29	W-12.42	52	W-17.52	WALLED	24
30	W-12.43	53	W-17.53	WALLED	24
31	W-12.44	54	W-17.54	WALLED	24
32	W-12.45	55	W-17.55	WALLED	24
33	W-12.46	56	W-17.56	WALLED	24
34	W-12.47	57	W-17.57	WALLED	24
35	W-12.48	58	W-17.58	WALLED	24
36	W-12.49	59	W-17.59	WALLED	24
37	W-12.50	60	W-17.60	WALLED	24
38	W-12.51	61	W-17.61	WALLED	24
39	W-12.52	62	W-17.62	WALLED	24
40	W-12.53	63	W-17.63	WALLED	24
41	W-12.54	64	W-17.64	WALLED	24
42	W-12.55	65	W-17.65	WALLED	24
43	W-12.56	66	W-17.66	WALLED	24
44	W-12.57	67	W-17.67	WALLED	24
45	W-12.58	68	W-17.68	WALLED	24
46	W-12.59	69	W-17.69	WALLED	24
47	W-12.60	70	W-17.70	WALLED	24
48	W-12.61	71	W-17.71	WALLED	24
49	W-12.62	72	W-17.72	WALLED	24
50	W-12.63	73	W-17.73	WALLED	24
51	W-12.64	74	W-17.74	WALLED	24
52	W-12.65	75	W-17.75	WALLED	24
53	W-12.66	76	W-17.76	WALLED	24
54	W-12.67	77	W-17.77	WALLED	24
55	W-12.68	78	W-17.78	WALLED	24
56	W-12.69	79	W-17.79	WALLED	24
57	W-12.70	80	W-17.80	WALLED	24
58	W-12.71	81	W-17.81	WALLED	24
59	W-12.72	82	W-17.82	WALLED	24
60	W-12.73	83	W-17.83	WALLED	24
61	W-12.74	84	W-17.84	WALLED	24
62	W-12.75	85	W-17.85	WALLED	24
63	W-12.76	86	W-17.86	WALLED	24
64	W-12.77	87	W-17.87	WALLED	24
65	W-12.78	88	W-17.88	WALLED	24
66	W-12.79	89	W-17.89	WALLED	24
67	W-12.80	90	W-17.90	WALLED	24
68	W-12.81	91	W-17.91	WALLED	24
69	W-12.82	92	W-17.92	WALLED	24
70	W-12.83	93	W-17.93	WALLED	24
71	W-12.84	94	W-17.94	WALLED	24
72	W-12.85	95	W-17.95	WALLED	24
73	W-12.86	96	W-17.96	WALLED	24
74	W-12.87	97	W-17.97	WALLED	24
75	W-12.88	98	W-17.98	WALLED	24
76	W-12.89	99	W-17.99	WALLED	24
77	W-12.90	100	W-18.00	WALLED	24


 COUNTY OF SAN BENITO DEPARTMENT OF PUBLIC WORKS
 MARQUETTE DRIVE
 AT SAN MARCOS CMO
 PROJECT # 060001854
 RETAINING WALL PROFILE
 SHEET # 03 OF 03



WALL SECTION

THE CONCRETE WALL PART AT CORNERING FROM EXISTING BRICK CHIMNEY IS INDICATED AND SHOWN.

PILE DATA										ANCHOR PILE DATA		
PILE NO.	TYPE	DIAMETER (IN)	LENGTH (FT)	SPACING (FT)	DEPTH (FT)	CONCRETE STRENGTH (PSI)	REINFORCEMENT	REMARKS	STATUS	NO.	TYPE	LENGTH (FT)
1	HP	12	10	10	10	4000	4#4					
2	HP	12	10	10	10	4000	4#4					
3	HP	12	10	10	10	4000	4#4					
4	HP	12	10	10	10	4000	4#4					
5	HP	12	10	10	10	4000	4#4					
6	HP	12	10	10	10	4000	4#4					
7	HP	12	10	10	10	4000	4#4					
8	HP	12	10	10	10	4000	4#4					
9	HP	12	10	10	10	4000	4#4					
10	HP	12	10	10	10	4000	4#4					
11	HP	12	10	10	10	4000	4#4					
12	HP	12	10	10	10	4000	4#4					
13	HP	12	10	10	10	4000	4#4					
14	HP	12	10	10	10	4000	4#4					
15	HP	12	10	10	10	4000	4#4					
16	HP	12	10	10	10	4000	4#4					
17	HP	12	10	10	10	4000	4#4					
18	HP	12	10	10	10	4000	4#4					
19	HP	12	10	10	10	4000	4#4					
20	HP	12	10	10	10	4000	4#4					
21	HP	12	10	10	10	4000	4#4					
22	HP	12	10	10	10	4000	4#4					
23	HP	12	10	10	10	4000	4#4					
24	HP	12	10	10	10	4000	4#4					
25	HP	12	10	10	10	4000	4#4					
26	HP	12	10	10	10	4000	4#4					
27	HP	12	10	10	10	4000	4#4					
28	HP	12	10	10	10	4000	4#4					
29	HP	12	10	10	10	4000	4#4					
30	HP	12	10	10	10	4000	4#4					
31	HP	12	10	10	10	4000	4#4					
32	HP	12	10	10	10	4000	4#4					
33	HP	12	10	10	10	4000	4#4					
34	HP	12	10	10	10	4000	4#4					
35	HP	12	10	10	10	4000	4#4					
36	HP	12	10	10	10	4000	4#4					
37	HP	12	10	10	10	4000	4#4					
38	HP	12	10	10	10	4000	4#4					
39	HP	12	10	10	10	4000	4#4					
40	HP	12	10	10	10	4000	4#4					
41	HP	12	10	10	10	4000	4#4					
42	HP	12	10	10	10	4000	4#4					
43	HP	12	10	10	10	4000	4#4					
44	HP	12	10	10	10	4000	4#4					
45	HP	12	10	10	10	4000	4#4					
46	HP	12	10	10	10	4000	4#4					
47	HP	12	10	10	10	4000	4#4					
48	HP	12	10	10	10	4000	4#4					
49	HP	12	10	10	10	4000	4#4					
50	HP	12	10	10	10	4000	4#4					
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52	HP	12	10	10	10	4000	4#4					
53	HP	12	10	10	10	4000	4#4					
54	HP	12	10	10	10	4000	4#4					
55	HP	12	10	10	10	4000	4#4					
56	HP	12	10	10	10	4000	4#4					
57	HP	12	10	10	10	4000	4#4					
58	HP	12	10	10	10	4000	4#4					
59	HP	12	10	10	10	4000	4#4					
60	HP	12	10	10	10	4000	4#4					
61	HP	12	10	10	10	4000	4#4					
62	HP	12	10	10	10	4000	4#4					
63	HP	12	10	10	10	4000	4#4					
64	HP	12	10	10	10	4000	4#4					
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66	HP	12	10	10	10	4000	4#4					
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73	HP	12	10	10	10	4000	4#4					
74	HP	12	10	10	10	4000	4#4					
75	HP	12	10	10	10	4000	4#4					
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83	HP	12	10	10	10	4000	4#4					
84	HP	12	10	10	10	4000	4#4					
85	HP	12	10	10	10	4000	4#4					
86	HP	12	10	10	10	4000	4#4					
87	HP	12	10	10	10	4000	4#4					
88	HP	12	10	10	10	4000	4#4					
89	HP	12	10	10	10	4000	4#4					
90	HP	12	10	10	10	4000	4#4					
91	HP	12	10	10	10	4000	4#4					
92	HP	12	10	10	10	4000	4#4					
93	HP	12	10	10	10	4000	4#4					
94	HP	12	10	10	10	4000	4#4					
95	HP	12	10	10	10	4000	4#4					
96	HP	12	10	10	10	4000	4#4					
97	HP	12	10	10	10	4000	4#4					
98	HP	12	10	10	10	4000	4#4					
99	HP	12	10	10	10	4000	4#4					
100	HP	12	10	10	10	4000	4#4					



 COUNTY OF LOS ANGELES DEPARTMENT OF PUBLIC WORKS
 MARQUETTE DRIVE
 AT WALKER AVENUE C/O
 PROJECT NO. 000000000000
 RETAINING WALL DETAILS 1
 SHEET 1 OF 3

NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	...	...	...	...

NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	...	...	...	...

REMARKS: ...
 ...
 ...

NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	...	...	...	...

REMARKS: ...
 ...
 ...

NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	...	...	...	...

REMARKS: ...
 ...
 ...

NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	...	...	...	...

REMARKS: ...
 ...
 ...

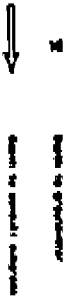
NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	...	...	...	...

REMARKS: ...
 ...
 ...

NOTES

1. ...
2. ...
3. ...
4. ...

SYMBOLS



NO.	DESCRIPTION	QTY	UNIT	AMOUNT
1	...	...	...	...

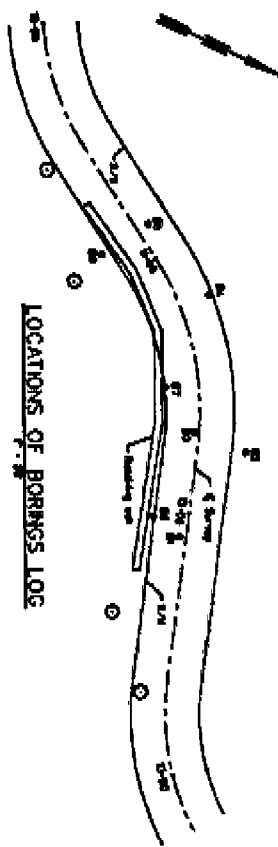


PROJECT NO. 10
 MARQUETTE DRIVE
 AT MILE MARKER 0+10
 PROJECT ID: 8000014884
 LOGS OR SKETCHES

NO. 1	DATE	BY	REVISION

No.	Description	Depth	Remarks
1
2
3
4
5

No.	Description	Depth	Remarks
1
2
3
4
5



LOCATIONS OF BORINGS LOG

Scale of drawing 1:500

Scale of drawing 1:500

Notes:
 1. ...
 2. ...
 3. ...

Notes:
 1. ...
 2. ...
 3. ...

- NOTES**
1. ...
 2. ...
 3. ...
 4. ...
 5. ...
 6. ...
 7. ...
 8. ...
 9. ...
 10. ...





CONTRACT NO. 2002 (CON. 000000000) WORK PROGRESS REPORT NO. 02

MARQUETTE DRIVE
 AT MILE MARKER 0+10
 PROJECT ID: RDC001-1684
 LOSS OF BORINGS

FIGURES



Approximate Scale 1" = 1320'

From: USGS Malibu Beach Quadrangle, 1981



GEOTECHNICAL AND MATERIALS
ENGINEERING DIVISION

LOS ANGELES COUNTY
DEPARTMENT OF PUBLIC WORKS

LOCATION MAP

MARQUETTE DRIVE @ MM 0.1

Digitized by
S. LIPSHIE

4/26/05

Figure 1

GEOTECHNICAL & MATERIALS ENGINEERING DIVISION

MARQUETTE DRIVE AT M.M. 0.10
GEOLOGIC CROSS-SECTION A-A'

Prepared by: S.R.L. Scale: 1 in. = 40 ft Date: Apr. 26, 2005

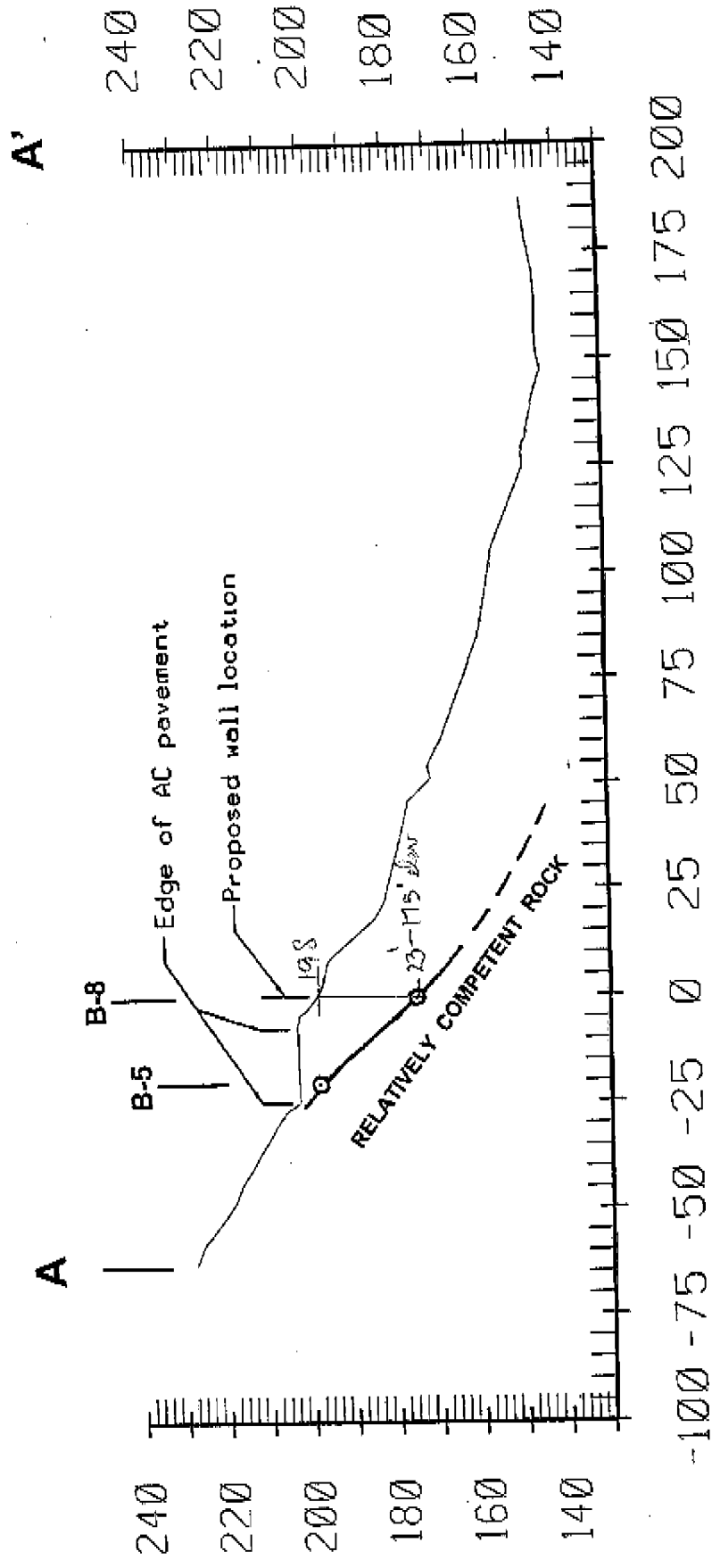


FIGURE 2

GEOTECHNICAL & MATERIALS ENGINEERING DIVISION

MARQUETTE DRIVE AT M.M. 0.10
GEOLOGIC CROSS-SECTION B-B'

Prepared by: S.R.L. Scale: 1 in. = 40 ft Date: Apr. 26, 2005

1/30/06
Rock is black mudstone
w/ thin interbeds of gray sandy
siltstone, silty ss.
@20 basal
@23 mudstone

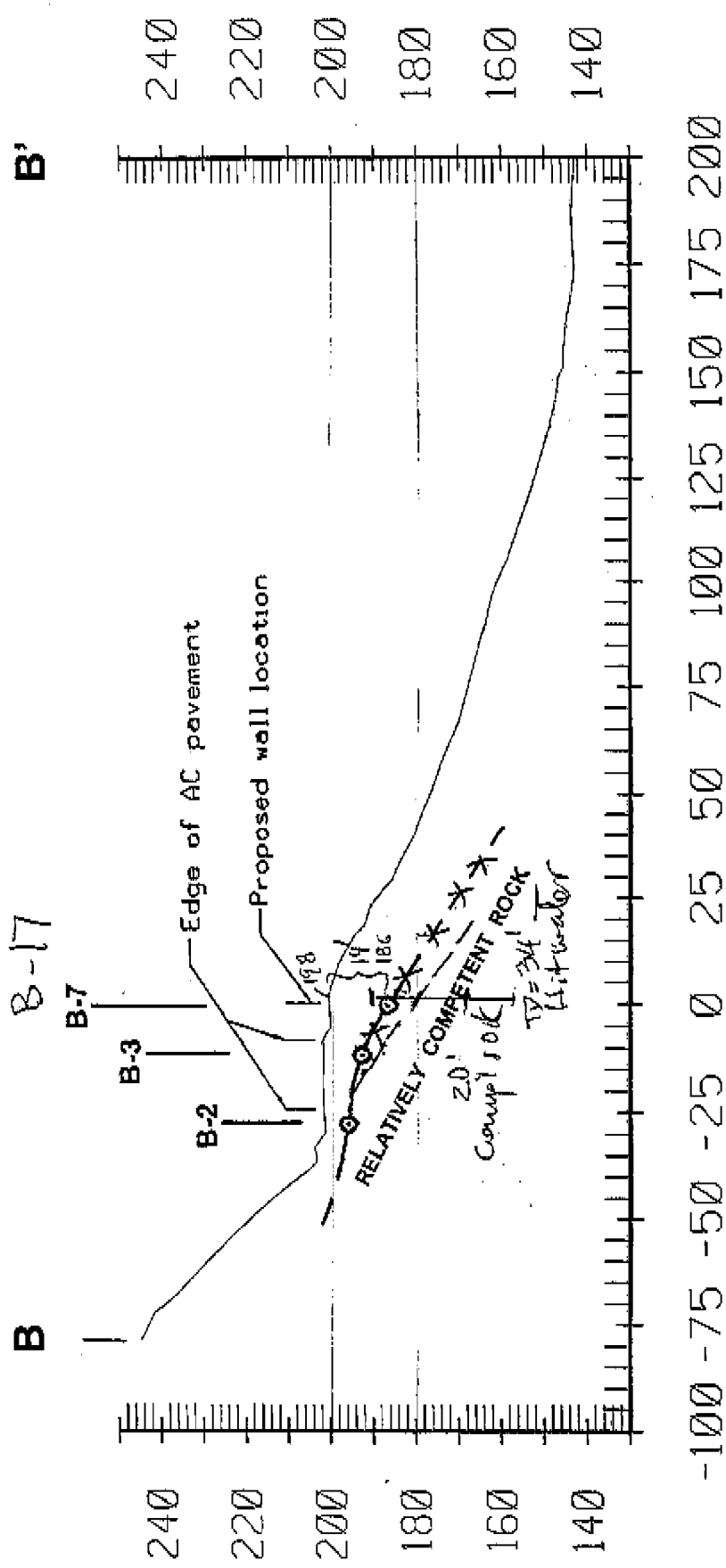


FIGURE 3

1+19.08

MARQUETTE DRIVE AT M.M. 0.10
GEOLOGIC CROSS-SECTION C-C'

Prepared by: S.R.L. Scale: 1 in. = 40 ft Date: Apr. 26, 2005

- 1/20/06 0-10 ft W
- @ 13' Sandstone dove brown, sat?
- @ 19' Black mudstone w/ls
 (compliant rock)
 slickenside, v. moist, sandy
 getting hard (siltstone?)
- @ 24' black sandy mudstone
 mod. hard
- @ 25' Hardly dipping. Thinly bedded interbedded
 black mudstone w/ black gray granite ss.
- @ 33' water

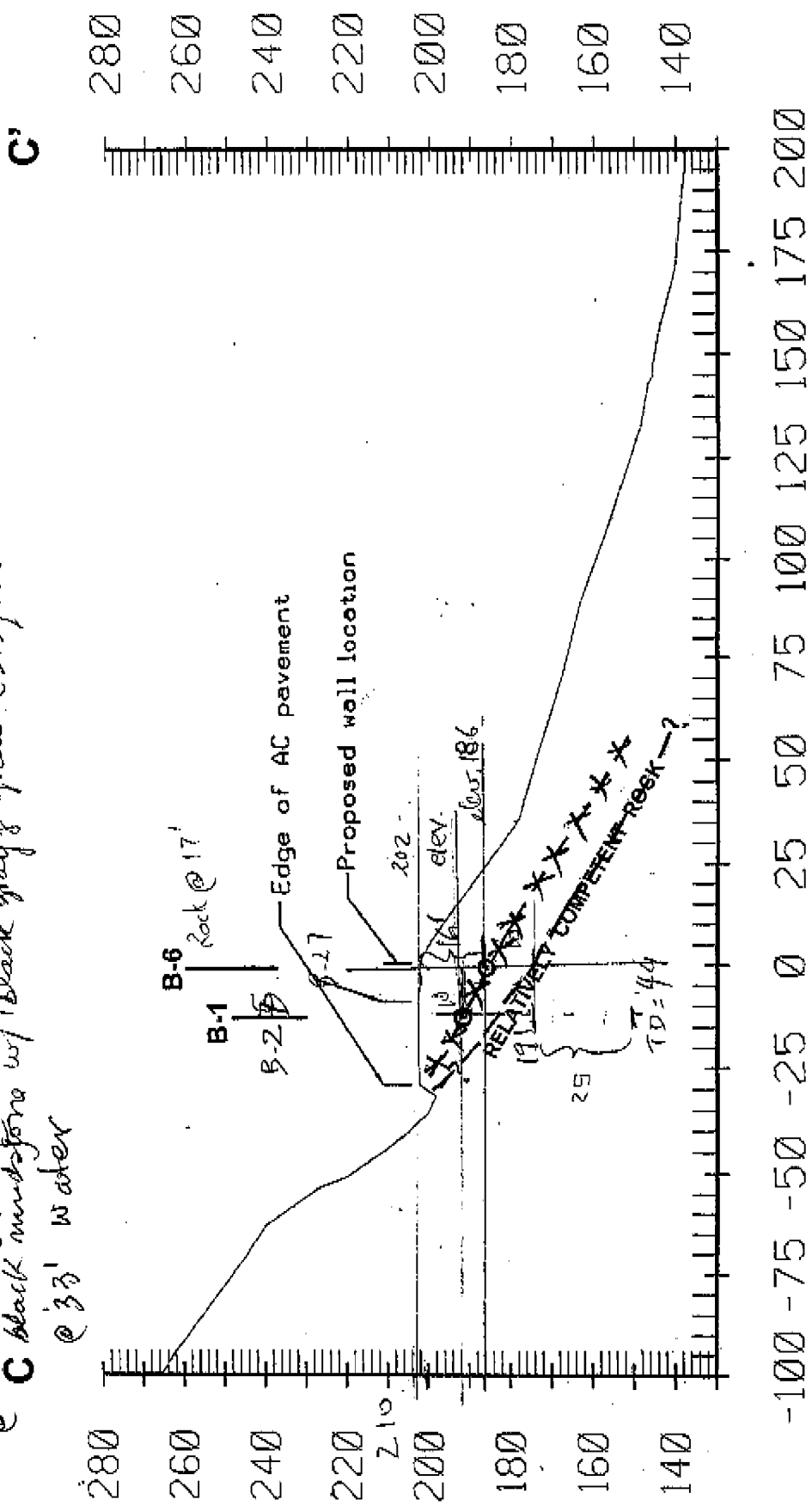
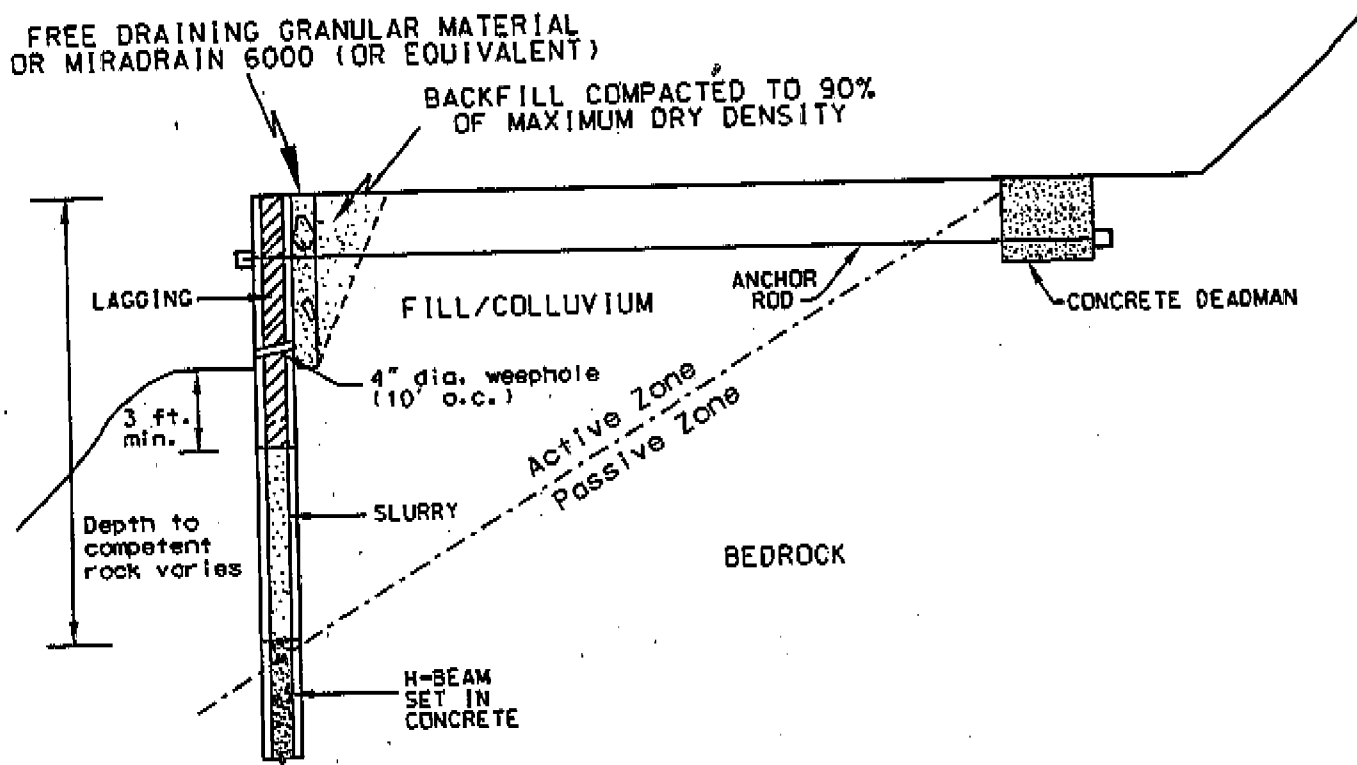


FIGURE 4

1+63.40



COUNTY OF LOS ANGELES.
 DEPARTMENT OF PUBLIC WORKS
 GEOTECHNICAL AND MATERIALS ENGINEERING DIVISION
 SOILS INVESTIGATION UNIT
 MARQUETTE DRIVE
 AT MM 0.10
 TYPICAL WALL CROSS SECTION
 FIGURE 6

Prepared By J. Wan	Date April 28, 2005	Scale None
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