Technical Report Documentation Page

1. REPORT No.

2. GOVERNMENT ACCESSION No.

3. RECIPIENT'S CATALOG No.

4. TITLE AND SUBTITLE

Slide Investigation and Geological Review Emerald Bay

5. REPORT DATE

September 1957

6. PERFORMING ORGANIZATION

7. AUTHOR(S)

8. PERFORMING ORGANIZATION REPORT No.

9. PERFORMING ORGANIZATION NAME AND ADDRESS

10. WORK UNIT No.

11. CONTRACT OR GRANT No.

13. TYPE OF REPORT & PERIOD COVERED

12. SPONSORING AGENCY NAME AND ADDRESS

14. SPONSORING AGENCY CODE

15. SUPPLEMENTARY NOTES

16. ABSTRACT

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17. KEYWORDS

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District III County ED Route 38 Sec. B

18. No. OF PAGES:

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19. DRI WEBSITE LINK

http://www.dot.ca.gov/hq/research/researchreports/1956-1958/57-24.pdf

20. FILE NAME

57-24.pdf

This page was created to provide searchable keywords and abstract text for older scanned research reports.
November 2005, Division of Research and Innovation

NOTE: Contours from survey of Sept. and Nov. 1956

Scale 1" = 50'

SLIDE INVESTIGATION
Emerald Bay
Sta. 242± to Sta. 251±
PLAN

DATE	DWG. NO	DIST.	COUNTY	ROUTE	SEC	SHEET NO.	TOTAL SHEETS
9-16-57	57-193-2198	III	ED	38	B	2	6

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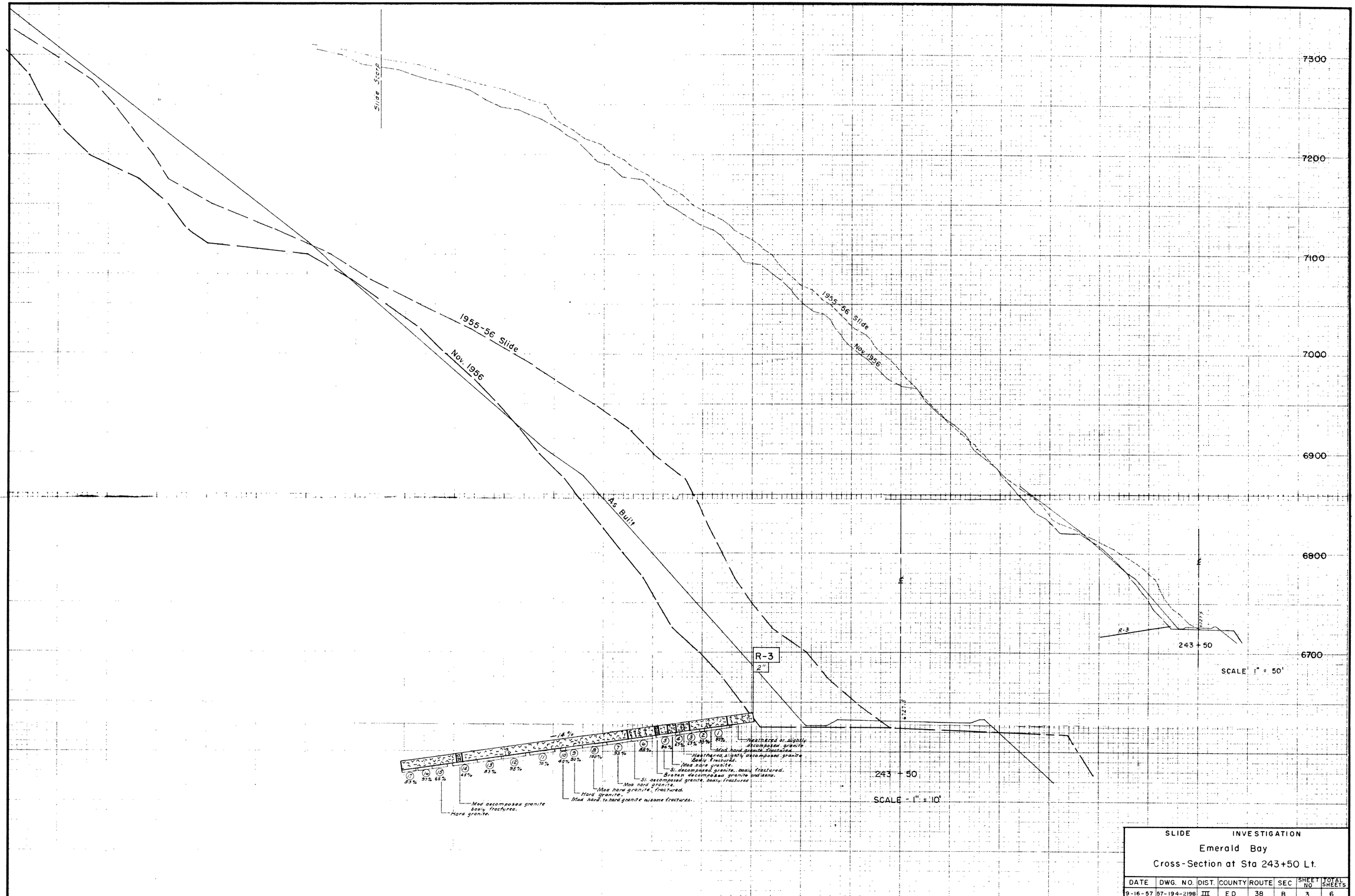

SLIDE INVESTIGATION							
Emerald Bay							
Cross-Section at Sta 243+50 Lt.							
DATE	DWG. NO.	DIST.	COUNTY	ROUTE	SEC	SHEET NO	TOTAL SHEETS
9-16-57	57-194-2198	III	ED	38	B	3	6

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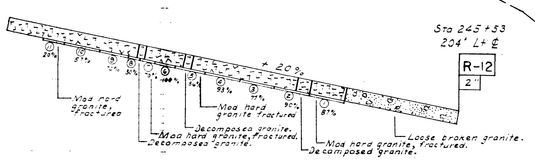

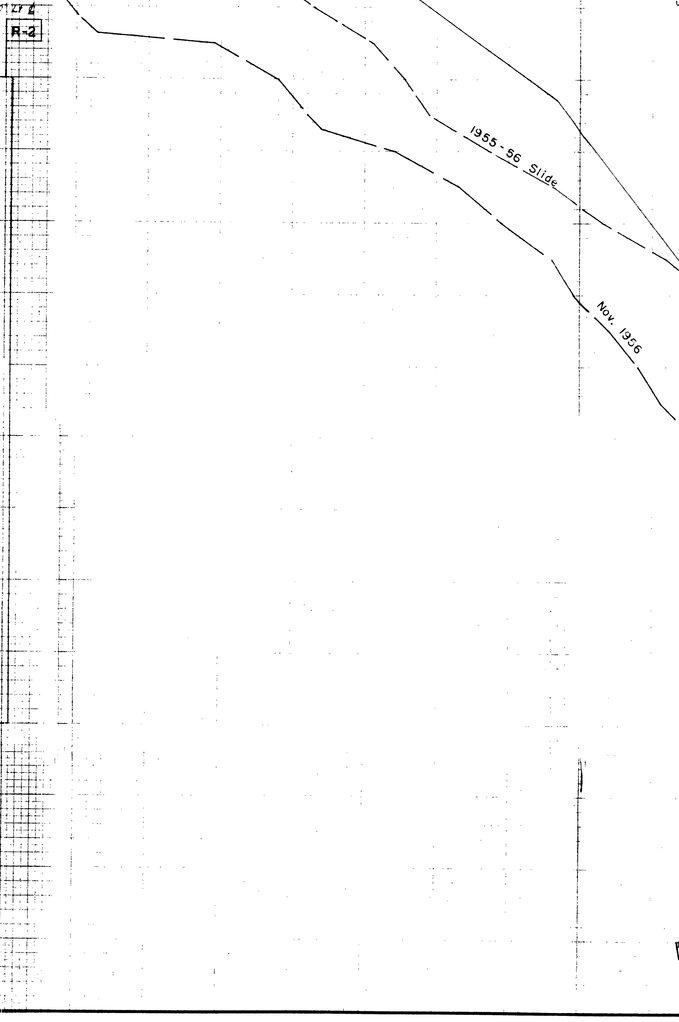

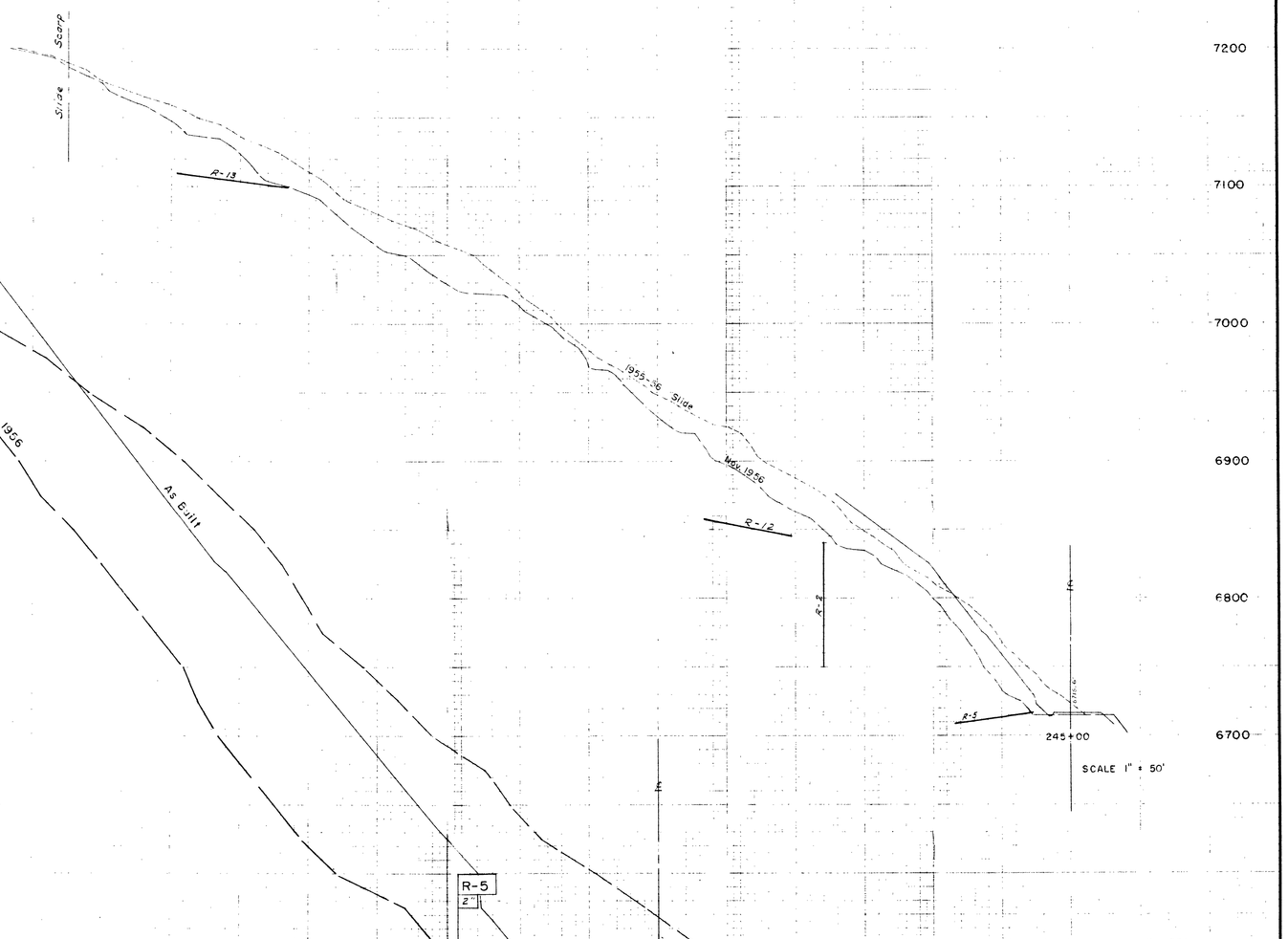

SLIDE INVESTIGATION

Emerald Bay

Cross-Section at Sta 245+00 Lt.

DATE	DWG. NO.	DIST.	COUNTY	ROUTE	SEC	SHEET NO.	TOTAL SHEETS
9-16-57	57-197-2198	III	ED	38	B	4	6

Caltrans - www.dot.ca.gov

R-10 230' Lt Sta 246+40

R-4

R-2 80' Lt Sta 245+87

Broken granite and decomposed granite.

1) 75% Hard granite showing fair to mod hard granite, numerous horizontal fractures.
2) 100%
3) 83%
4) 83%
5) 84%
6) 30% Loose broken granite and decomposed granite
7) 100%

Hard granite
Broken granite and brown decomposed granite.
Weathered Mod. hard granite
Weathered or mod. decomposed granite.
Broken mod. hard granite and decomposed granite.
Hard granite.
Broken weathered granite and decomposed granite.
3) 27% Hard granite, bottom of core, weathered
Broken granite, decomposed granite and sand.
Hard granite
Decomposed granite
Mod hard granite
1' layer decomposed granite
Hard granite.
4) 83% 2' layer decomposed granite.
Hard granite.
2' layer decomposed hard granite.
Weathered or slight decomposed granite.
Basic fractured granite and decomposed granite.
Mod Hard granite
Weathered or mod. decomposed granite.
Mod. hard to hard granite.
4' layer of decomposed granite
4' layer of decomposed granite
Slight to mod. decomposed granite.
Mod hard granite.
5) 90% Mod hard granite, fractured
Mod hard to hard granite.

1956-56 Slide
Nov. 1956
Slide Scarp

7100
7000
6900
6800
6700

246+00

SCALE 1" = 50'

Mod hard granite, fractures.
Mod hard granite some fractures
Mod hard granite, fractured
Basic fractured granite and decomposed granite.
Mod hard granite, fractured
Mod hard granite, heavy fractured
Mod hard granite fractured
Sl. decomposed heavy fractured
Mod hard granite
Sl. decomposed fractured granite.
Hard granite
loose broken granite & decomposed granite

R-11 2"
R-9 2"
R-1 2"

Loose broken granite decomposed granite.
Mod hard granite fractured.
Decomposed fractured granite.
Mod hard granite.
Decomposed fractured granite.
Sl. to Mod. hard granite.
Mod hard fractured granite, some weathering at fractures.
Mod decomposed, badly fractured mica bearing at 35° slickensides at 45°
Mod hard granite.
Sl. to Mod. weathered granite, badly fractured & broken with slickensides at 45°
Granite highly mineral stained
Mod. hard granite
Sl. decomposed highly fractured
Mod hard granite

246+00

Hard granite.
Broken granite and decomposed granite
Mod hard granite fractured
Weathered broken granite and decomposed granite.
Mod. hard granite, fractured Hard granite mirrors all along broken decomposed granite.
Mod. hard granite, fractures

SCALE 1" = 10

Mod hard fractured granite.
Mod hard granite.
Sl. decomposed fractured granite.
Mod hard granite fractured granite.
Sl. decomposed badly fractured granite.
Mod hard granite.
Sl. decomposed badly fractured granite.
Mod decomposed granite.
Mod hard granite fractured granite.
Sl. decomposed badly fractured granite.
Mod hard granite.
Sl. to mod decomposed badly fractured granite
Mod hard granite.
Net brown sand clay loose broken granite and decomposed granite.
Mod. to complete ly decomposed granite
Hard granite.
Sl. decomposed badly fractured
Mod hard granite joints.
Mod decomposed granite.
Mod decomposed granite
Mod hard granite
Sl. to mod decomposed granite badly fractured.
Mod decomposed badly fractured granite
Mod hard granite.
Sl. to mod decomposed granite badly fractured.

R-10 2'
R-4
A

SLIDE INVESTIGATION

Emerald Bay

Cross-Section at Sta 246+00

DATE	DWG. NO.	DIST	COUNTY	ROUTE	SEC	SHEET NO	TOTAL SHEETS
9-16-57	57-196-2198	III	ED	38	B	5	6

7300
7200
7100
7000
6900
6800
6700
1955-56 Slide
Nov 1956
As Built
Slide Scarp
A
A
R-13
R-10
R-8
248 + 00
SCALE 1" = 50'
SCALE 1" = 10'
6694.5
R-8
2"
Mod hard fractured granite.
Decomposed granite.
Mod hard fractured granite.
Decomposed granite.
Mod hard fractured granite.
Decomposed granite.
Sta 248 + 30
397' Lt ℄
R-13
2"
Loose broken granite and sand.
Hard granite.
Sl. decomposed granite with some weathering of fracture planes.
Mod. hard granite with some weathering of fracture planes.
Sl. decomposed granite.
Mod hard granite fractured.
Sl. to Mod. decomposed granite.
Mod hard fractured granite
Hard fractured granite
Sl. decomposed granite.
SLIDE INVESTIGATION
Emerald Bay
Cross-Section at Sta 248+00
DATE | DWG. NO. | DIST. | COUNTY | ROUTE | SEC | SHEET NO | TOTAL SHEETS
9-16-57 | 57-197-2198 | III | ED | 38 | B | 6 | 6