| | | |
|---|---|---|
| Notes Ck'd by | Survey of | F.B. 1507 PG. 5 |
| Map No. | W. O. Tape No. St'd. °F | |
| Office Work | Surveyed by | |
| Checked | Notes Date | |
| Dates | Indexed A. C. Johnson 1-6-54 | |

BOOK 9

# BEACH EROSION STUDIES

## ~SOUNDINGS~

## J.N. 8412

DECEMBER 1953

FROM STATION 508 toON to STATION ~~620+70.80~~ 670+20.80

FOR ONSHORE SHOT SEE L.A. CITY ~ F.B.
23928 pages 44 to 46
23929 pages 9

Blanchard
Uherriet
Uuommen
Goodwin
Oben
Robbins
Smith
Santucci

Microfilmed Sept 87

BOOK 8 = FB 1506
BOOK 10 =

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**Note:** Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change

**Do not extend notes this side of this line.**

F.B. 5567 PG. 6

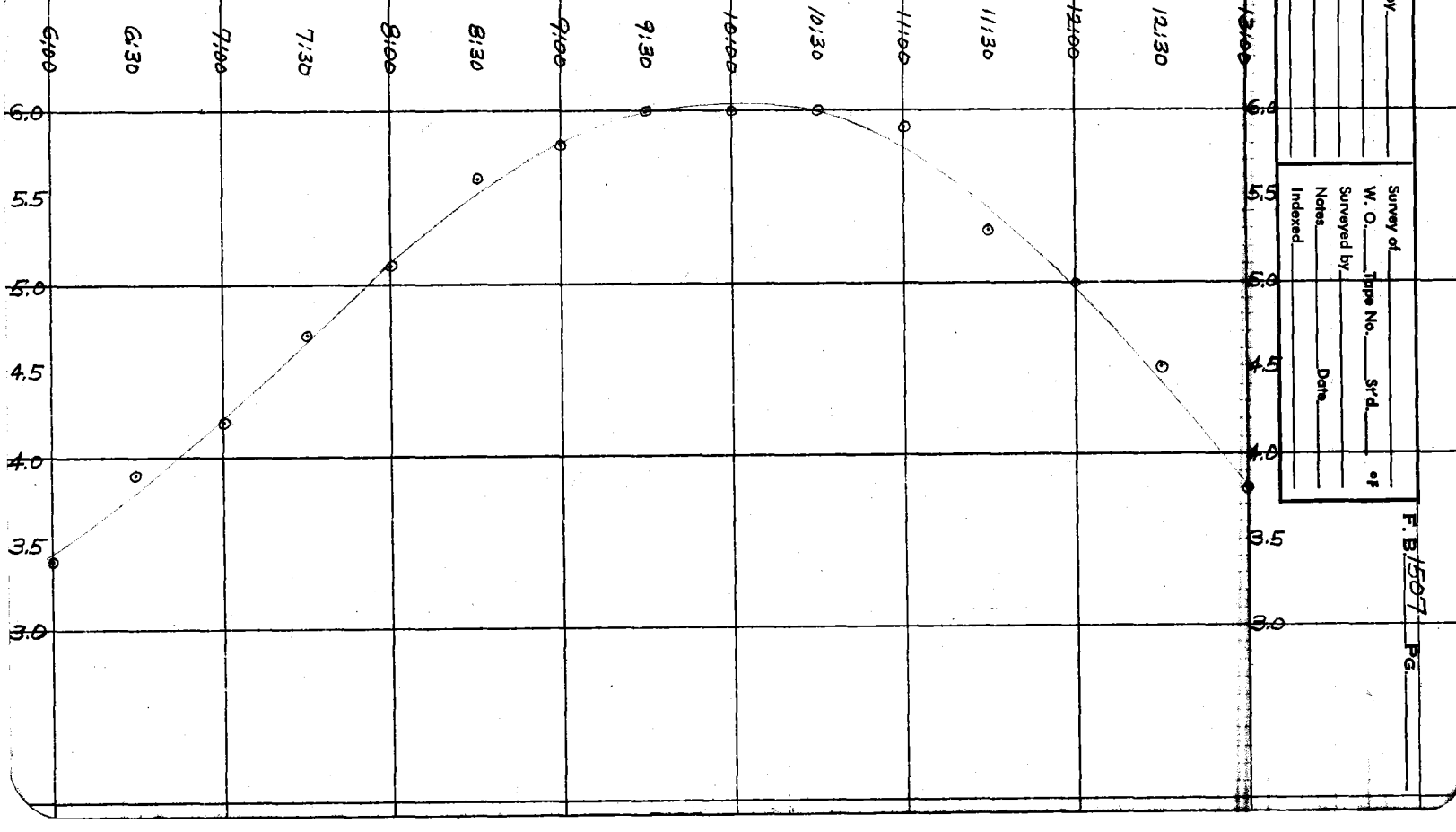
76F3098 247 4-53

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

December 9, 1953




Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. Sr'd. of
Surveyed by
Notes Date
Indexed

F. B. 1507 Pg.

F. B. 1507 PG.

December 10, 1953

6.0 5.5 5.0 4.5 4.0 3.5 3.0

12:00
11:30
11:00
10:30
10:00
9:30
9:00
8:30
8:00
7:30
7:00
6:30
6:00

6.0 5.5 5.0 4.5 4.0 3.5 3.0

RETURN TO
LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

F. B. 1507 PG. 7

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed R. C. Johnson

# TIDE GAGE

## STANDARD TIME

12-9-53

| TIME | GAGE |
|---|---|
| 6 00 | 3.4 |
| 6 30 | 3.9 |
| 7 00 | 4.2 |
| 7 30 | 4.7 |
| 8 00 | 5.1 |
| 8 30 | 5.6 |
| 9 00 | 5.8 |
| 9 30 | 6.0 |
| 10 00 | 6.0 |
| 10 30 | 6.0 |
| 11 00 | 5.9 |
| 11 30 | 5.3 |
| 12 00 | 5.0 |
| 12 30 | 4.5 |
| 1 00 | 3.8 |

Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 4-53

F.B. 1307 PG. 1

# TIDE GAGE

STANDARD TIME

DEC. 10 1953

| HOUR | TIDE |
|---|---|
| 6 00 | 3.4 |
| 6 30 | 3.5 |
| 7 00 | 3.8 |
| 7 30 | 4.3 |
| 8 00 | 4.7 |
| 8 30 | 5.1 |
| 9 00 | 5.4 |
| 9 30 | 5.7 |
| 10 00 | 5.9 |
| 10 30 | 5.9 |
| 11 00 | 5.9 |
| 11 30 | 5.8 |
| 12 00 | |
| 12 30 | |

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

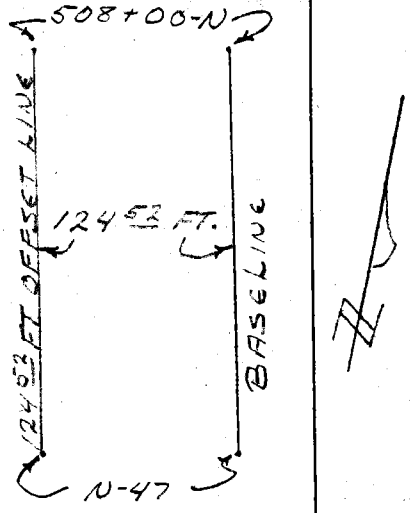
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Rod Plotted Job No. 5412 Division No. F.B. 1507 Pg. 9
No. Date Date Survey of 1-H. BLANCHARD assoc. Date 12-2-52
X-Sect. Notes Chkd Checked Survey by H. BLANCHARD assoc. & Johnson
No. Date Date Map No. Date

RANGE 508+00-N

| STATION | B. S. | H. I. | F. S. | ELEV. | Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | | | |
| 508+00-N - 124.53 FT OFF | 1 | B&W | 7:00 | | 90°00 | |
| | 2 | R | | | 90°07 | |
| | 3 | Y | | | 90°09 | |
| N-47 - 124.53 FT OFF | 4 | B&W | 7:06 | | 90°00 | |
| | 5 | R | | | 90°00 | |
| | 6 | Y | | | 90°00 | |
| | 7 | B&W | 7:08 | | 90°00 | |
| | 8 | R | | | 90°00 | |
| | 9 | Y | | | 90°00 | |
| | 10 | B&W | 7:10 | | 90°00 | |
| | 11 | R | | | 90°09 | |
| | 12 | Y | | | 90°00 | |
| | 13 | B&W | 7:12 | | 90°00 | |
| | 14 | R | | | 90°00 | |
| | 15 | Y | | | 90°00 | |
| 502+21.9 | 16 | B&W | 7:14 | | 90°00 | |
| | 17 | R | | | 90°00 | |
| | 18 | Y | | | 90°00 | |
| | 19 | B&W | 7:16 | | 90°00 | |
| | 20 | R | | | 90°00 | |




RANGE 508+00-N

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 10 | Job No. 8412 Division No. | Notes Red. | Plotted | No. | Profile

Survey of Beach Erosion Study | Date | Date | X-Sec.

Survey by L. C. Johnson | Notes OBSD | Notes Chkd | Checked

Indexed | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE 508+00-N |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | 21 | Y | | 90°00 | |
| | 22 | B&W | 7:18 | 90°00 | |
| | 23 | R | | 90°00 | |
| | 24 | Y | | 90°00 | |
| | 25 | B&W | 7:19 | 90°00 | |
| | 26 | R | | 90°00 | |
| | 27 | Y | | 90°00 | |
| | 28 | B&W | 7:21 | 90°00 | |
| Range 508+00-N / 508+00-N | | | | | |
| N-47 - 1345.2 FT S.E. | | | | | |
| 508+00-N 1345.2 FT S.E. | | | | | |

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

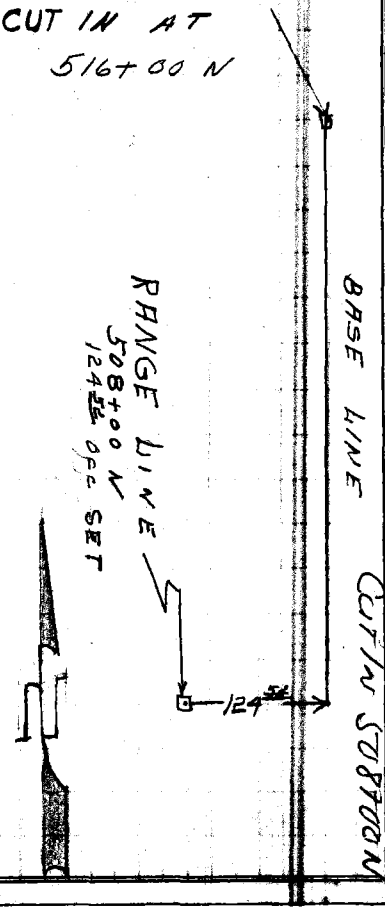
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red ____ Plotted ____ Job No. 8442 Division No. ____ F.B. 150 Pg. 11
No. ____ Date ____ Date ____ Survey of Boseley Studies
X-Sec. Notes Chkd ____ Checked ____ Survey by F. H. BLANCHARD ER Date 12-9-53
No. ____ Date ____ Date ____ Map No. ____ Checked Job Date ____ Date ____

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT - IN | 508+00 N |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1. | B&W | 6:59 | 77°58 | CUT IN AT | |
| | * 2 | R | | 76°37 | 516+00 N | |
| | * 3 | Y | | 72°58 | | |
| | 4. | B&W | 7:05 | 71°52 | | |
| | 5 | R | | 70°36 | | |
| | 6 | Y | | 69°31 | | |
| | 7 | B&W | 7:07 | 68°10 | | |
| | 8 | R | | 67°07 | | |
| | 9 | Y | | 65°18 | | |
| | 10 | B&W | 7:09 | 64°08 | | |
| | * 11 | R | | 62°35 | | |
| | 12 | Y | | 60°38 | | |
| | 13 | B&W | 7:11 | 58°41 | | |
| | 14 | R | | 56°10 | | |
| | 15 | Y | | 53°59 | | |
| | 16 | B&W | 7:14 | 51°52 | | |
| | 17 | R | | 50°32 | | |
| | 18 | Y | | 47°54 | | |
| | 19 | B&W | 7:16 | 45°46 | | |
| | 20 | R | | 44°06 | | |

516+00 N / 512+00 N



76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1307 PG. 12 Job No. 8442 Division No. Profile
Survey of Beach Erosion Study No. X-Sec.
Survey by F. H. Notes Robbins Notes Chkd. Checked
Indexed R. O. Johnson Date 12-9-53 Date Date
Plotted Notes Red Date No.

CUT-IN 508+00N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | |
| CUT-IN 508+00N | 21 | Y | | 42° 17 | |
| 516+00N BASELINE | 22 | B&W | 7:17 | 4[illegible] 43 | |
| | 23 | R | | 38° 46 | |
| | 24 | Y | | 3[illegible] 32 | |
| 512+00N BASELINE | 25 | B&W | 7 19 | 34° 25 | |
| | 26 | R | | 31° 52 | |
| | 27 | Y | | 28° 48 | |
| | 28 | B&W | 7 21 | 26° 50 | |

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red CEM Plotted Job No. 8418 Division No.
No. Date 1/18/54 Date Survey of Beach Erosion Studies
X-Sec. Notes Chkd. EK Checked Survey by F.W.B. & C.J.R. Date 12-9-53
No. Date 1-31-54 Date Map No. Indexed Date
F.B. 1502 Pg. 13

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | 508+00 N | |
|---|---|---|---|---|---|---|---|
| # Color | Time | Depth | Bottom | Tide | Adj. Depth | Remarks | |
| 1 BM | 7:00 | 36.0 | 35.8 | 4.2 | 31.6 | 3753 | |
| 2 R | | 35.7 / 36.2 | 34.7 | 4.2 | 30.5 | 3342 | 3362 3360 on 3340 off -20 |
| 3 Y | | 34.5 / 32.0 | 31.7 | 4.3 | 27.4 | 2593 | 2611 2616 on 2598 off -18 |
| 4 BM | 7:06 | 31.5 / 31.0 | 30.0 | 4.3 | 25.7 | 2442 | |
| 5 R | | 29.6 / 30.0 | 29.4 | 4.3 | 25.1 | 2272 | |
| 6 Y | | 29.1 / 29.2 | 28.3 | 4.3 | 24.0 | 2142 | |
| 7 BM | 7:09 | 27.8 / 28.2 | 27.7 | 4.3 | 23.4 | 1997 | |
| 8 R | | 27.3 / 26.7 | 26.9 | 4.4 | 22.5 | 1895 | |
| 9 Y | | 26.6 / 25.5 | 25.8 | 4.4 | 21.4 | 1739 | |
| 10 BM | 7:11 | 26.6 / 25.8 | 26.1 | 4.4 | 21.7 | 1650 | |
| 11 R | | 25.6 / 24.7 | 25.0 | 4.4 | 20.6 | 1534 | 1542 1540 on 1532 off +8 |
| 12 Y | | 25.2 / 24.4 | 24.7 | 4.4 | 20.3 | 1422 | |
| 13 BM | 7:13 | 23.5 / 22.8 | 23.0 | 4.4 | 18.6 | 1315 | |
| 14 R | | 22.7 / 21.2 | 21.7 | 4.4 | 17.3 | 1193 | |
| 15 Y | | 22.0 / 20.9 | 21.3 | 4.4 | 16.9 | 1100 | |
| 16 BM | 7:15 | 21.5 / 21.0 | 21.2 | 4.4 | 16.8 | 1019 | ROCKY BOTTOM |
| 17 R | | 20.2 / 19.0 | 19.4 | 4.4 | 15.0 | 972 | |
| 18 Y | | 18.1 / 18.0 | 18.4 | 4.5 | 13.9 | 885 | |
| 19 BM | 7:17 | 18.9 / 17.4 | 17.7 | 4.5 | 13.2 | 822 | |
| 20 R | | 16.9 | 17.1 | 4.5 | 12.6 | 775 | |

BOAT 508+00 N

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1567 Pg. 14 | Job No. 8412 Division No. | Profile | No. | X-Sec. | No.

Survey of Beach Erosion Studies | Notes Red CEM | Plotted

Survey by EHB | Notes 4.5' | Date 1/18/54 | Checked

Indexed E. C. Johnson | Date | Notes Chkd | Date 2-25-54

| STATION # | Color | B. S. Time | H.W. Depth | F. S. Bottom | ELEV. Tide | Boat Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | | | | 508+00 N |
| 21 | Y | | 17.3<br>16.5 | 16.8 | 4.5 | 12.3 | 728 |
| 22 | B×W | 7:19 | 16.8<br>15.1 | 15.7 | 4.5 | 11.2 | 689 |
| 23 | R | | 16.1<br>15.5 | 15.7 | 4.5 | 11.2 | 642 |
| 24 | Y | | 15.0<br>13.8 | 14.2 | 4.5 | 9.7 | 593 |
| 25 | B×W | 7:20 | 15.0<br>14.2 | 14.5 | 4.5 | 10.0 | 548 |
| 26 | R | | 12.1<br>11.0 | 11.4 | 4.5 | 6.9 | 497 |
| 27 | Y | | 11.0<br>8.6 | 9.4 | 4.5 | 4.9 | 440 |
| 28 | B×W | 7:22 | 8.4<br>7.0 | 7.5 | 4.5 | 3.0 | 405 |

Boat 508+00 N

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. _____ Plotted _____ Job No. 8412 Division No. _____ F. B. 1 SD 73 15

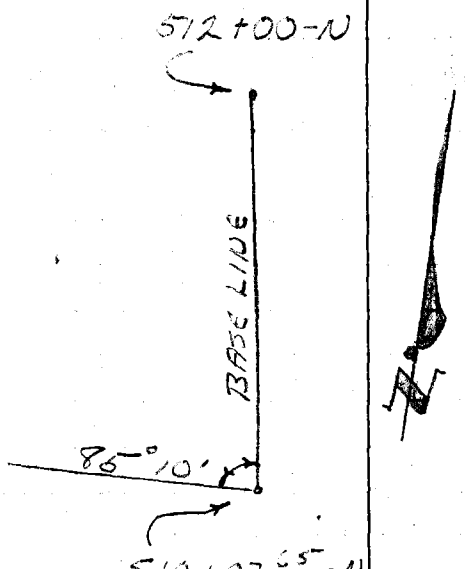
No. _____ Date _____ Date _____ Survey of Beach Avenue Street Line

X-Sec. Notes Chkd. _____ Checked _____ Survey By _____ Notes C. Johnson Date 12-9-52

No. _____ Date _____ Date _____ Map No. _____ Index _____ Date _____

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | |
| | 1 | B & W | 7:39 | 85°10 | |
| | 2 | R | | 85°10 | |
| | 3 | Y | | 85°10 | |
| | 4 | B & W | 7:41 | 85°10 | |
| | 5 | R | | 85°10 | |
| | 6 | Y | | 85°10 | |
| | 7 | B & W | 7:43 | 85°10 | |
| | 8 | R | | 85°10 | |
| | 9 | Y | | 85°10 | |
| | 10 | B & W | 7:46 | 85°10 | |
| | 11 | R | | 85°10 | |
| | 12 | Y | | 85°10 | |
| | 13 | B & W | 7:47 | 85°10 | |
| | 14 | R | | 85°10 | |
| | 15 | Y | | 85°10 | |
| | 16 | B & W | 7:49 | 85°10 | |
| | 17 | R | | 85°10 | |
| | 18 | Y | | 85°10 | |
| | 19 | B & W | 7:51 | 85°10 | |
| | 20 | R | | 85°10 | |

Range 510+07 65 N



F. B. 1507 Pg. 4/6 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION Study | Date | Date | No.

Survey by F. H. [illegible] CHARD | Notes OBES | Notes Chkd. | Checked | X-Sec.

Indexed C. Johnson | Date | Date | Date | No.

Range 510+07 65 W

510+07 65 Baseline

510+02 -N Baseline

| STATION | B. S. | H. I. | F. S. | ELEV. | Inst. Sight Ht. Obj. | # | Color | Time | Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 21 | Y | | | |
| | | | | | | 22 | Blk | 7:53 | | |
| | | | | | | 23 | R | | | |
| | | | | | | | | | | Range |
| | | | | | | | | | | 510+07 65-N |

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

761.298 307 8-53

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red Plotted Job No. 8412 Division No.
No. Date. Date. Survey of BEACH EROSION STUDY
X-Sec. Notes Chkd. Checked Survey by H. BLANCHARD ER Date 12-2-53
No. Date. Date. Map No. Indexed C. Johnson

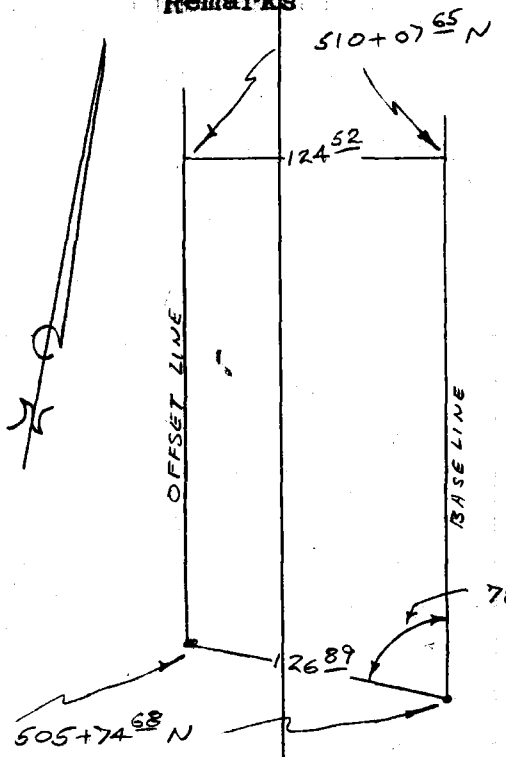
F.B. 1507 Pg. 17

CUT-IN 510+07.65N

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. |
| | 1 | B&W | 7:39 | |
| | 2 | R | | 73°50 |
| | 3 | Y | | 72°44 |
| | 4 | B&W | 7:40 | 71°19 |
| | 5 | R | | 70°01 |
| | 6 | Y | | 68°03 |
| | 7 | B&W | 7:42 | 67°09 |
| | 8 | R | | 65°14 |
| | 9 | Y | | 63°28 |
| | 10 | B&W | 7:44 | 61°56 |
| | 11 | R | | 59°31 |
| | 12 | Y | | 57°22 |
| | 13 | B&W | 7:46 | 55°33 |
| | 14 | R | | 52°44 |
| | 15 | Y | | 49°47 |
| | 16 | B&W | 7:48 | 47°01 |
| | 17 | R | | 44°10 |
| | 18 | Y | | 41°13 |
| | 19 | B&W | 7:50 | 38°03 |
| | 20 | R | | 34°29 |

505+74.68N
510+07.65N

Remarks




CUT-IN 510+07.65N

F.B. 1507 PG. 18 Job No. 8412 Division No. Studio 2 Notes Red. Plotted Profile
Survey of Beach Erosion Date Date No.
Survey by Notes Robbins Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date 12-9-53 Date Date No.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

CUT-IN 510+07.65 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight | # | Color | Time | Hor. Ang. | |
| At On | 21 | Y | | 31°28 | |
| | 22 | B+W | 7:51 | 28°52 | |
| | 23 | R | | 24°25 | |

CUT-IN 510+07.65 N
505+74.65 N
510+07.65 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile
Notes Red SEM Plotted
No. Date 1/18/54 Date
X-Sec. Notes Chkd. LK Checked
No. Date 1-21-54 Date
Job No. 842 Division No.
Survey of Beach Expressway Studies
Survey by FMB Notes AS Date 12-9-53
Map No. Inked CJ Tabulated Date
F.B. 1607 Pg. 19

Boat 5107+07.65N

| STATION | B. S. | H. I. | F. S. | ELEV. | Boat | | |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth / Bottom | Tide | Adj. Depth | | Remarks |
| | | 31.1 | | | | |
| 1 B×W | 7:40 | 29.8 | 30.2 | 4.8 | 25.4 | | |
| | | 30.0 | | | | | |
| 2 R | | 29.0 | 29.3 | 4.8 | 24.5 | 2143 | |
| | | 28.8 | | | | | |
| 3 Y | | 28.0 | 28.3 | 4.8 | 23.5 | 1990 | |
| | | 28.2 | | | | | |
| 4 B×W | 7:42 | 27.0 | 27.4 | 4.8 | 22.6 | 1755 | |
| | | 27.0 | | | | | |
| 5 R | | 26.0 | 26.3 | 4.8 | 21.5 | 1610 | |
| | | 25.2 | | | | | |
| 6 Y | | 24.0 | 24.4 | 4.8 | 19.6 | 1430 | |
| | | 24.7 | | | | | |
| 7 B×W | 7:44 | 23.3 | 23.8 | 4.9 | 18.9 | 1360 | |
| | | 23.2 | | | | | |
| 8 R | | 22.5 | 22.7 | 4.9 | 17.8 | 1230 | |
| | | 23.1 | | | | | |
| 9 Y | | 21.7 | 22.2 | 4.9 | 17.3 | 1123 | |
| | | 21.9 | | | | | |
| 10 B×W | 7:46 | 21.0 | 21.3 | 4.9 | 16.4 | 1052 | |
| | | 20.9 | | | | | |
| 11 R | | 20.0 | 20.3 | 4.9 | 15.4 | 951 | |
| | | 21.3 | | | | | |
| 12 Y | | 19.9 | 20.4 | 4.9 | 15.5 | 874 | Rocky Bottom |
| | | 18.9 | | | | | |
| 13 B×W | 7:48 | 18.0 | 18.3 | 4.9 | 13.4 | 817 | |
| | | 19.1 | | | | | |
| 14 R | | 18.0 | 18.4 | 4.9 | 13.5 | 740 | |
| | | 17.9 | | | | | |
| 15 Y | | 17.0 | 17.3 | 4.9 | 12.4 | 672 | |
| | | 18.0 | | | | | |
| 16 B×W | 7:50 | 16.8 | 17.2 | 5.0 | 12.2 | 615 | |
| | | 16.0 | | | | | |
| 17 R | | 15.9 | 16.2 | 5.0 | 11.2 | 565 | |
| | | 15.6 | | | | | |
| 18 Y | | 14.0 | 14.9 | 5.0 | 9.9 | 520 | |
| | | 14.4 | | | | | |
| 19 B×W | 7:51 | 13.9 | 13.4 | 5.0 | 8.4 | 473 | |
| | | 11.9 | | | | | |
| 20 R | | 10.3 | 10.8 | 5.0 | 5.8 | 429 | |

Boat 5107+07.65N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 20 Job No. 8412 Division No. Notes Red. CEM Plotted
Survey of Beach Erosion Studies Date 1/18/54 Profile No.
Survey by EHB Notes AS. Notes Chkd. CC Checked X-Sec. No.
Indexed A. C. Johnson Date Date 1-21-54 Date

Boat STA 510+07.65N

| STATION | B. S. | H. I. | F. S. | ELEV. | Boat | | |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | Adj. Depth | | Remarks |
| 21 Y | | 9.0<br>8.1 | 8.4 | 5.0 | 3.4 | 393 | |
| 22 B×W | 7.52 | 9.0<br>8.0 | 8.3 | 5.0 | 3.3 | 368 | |
| 23 R | | 8.0<br>7.8 | 7.2 | 5.0 | 2.2 | 350 | |

Boat STA 510+07.65N

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

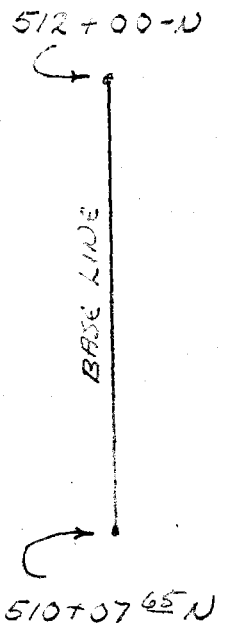
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of Base Line Date 12-9-52
X-Sec. Notes Chkd. Checked Survey by F. Nord & W. Date
No. Date Date Map No. Drawn C. Johnson Date

F. B. 1507 Pg. 21

RANGE 512+00-N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | |
| 512+00-N - BASE LINE | 1 | B ≠ W | 8:07 | 89°40 | |
| | | R | | 90°00 | |
| | | Y | | 90°00 | |
| | | B ≠ W | 8:09 | 90°00 | |
| | | R | | 90°00 | |
| | | Y | | 90°00 | |
| | | B ≠ W | 8:11 | 90°00 | |
| | | R | | 90°00 | |
| | | Y | | 90°09 | |
| | | B ≠ W | 8:13 | 90°00 | |
| | | R | | 90°00 | |
| | | Y | | 90°00 | |
| | | B ≠ W | 8:15 | 90°00 | |
| | | R | | 90°00 | |
| | | Y | | 89°43 | |
| | | B ≠ W | 8:18 | 90°00 | |
| | | R | | 90°00 | |
| | | Y | | 90°00 | |
| | | B ≠ W | 8:20 | 90°00 | |
| | | R | | 90°00 | |



Range 512+00 N

F. B. 1507 Pg. 22 | Job No. 8112 | Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion Study | Date | Date | No.

Survey by [illegible] | Notes OPEN | Notes Chkd. | Checked | X-Sec.

Indexed R. C. Johnson | Date | Date | Date | No.

Range 512+00 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Inst. Sight At OR # | Color | Time | Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| 512+00-N BASELINE | 21 | | | | | | | | |
| 512+07.50 N BASELINE | 22 | | | | | | | | |
| | 23 | | | | | | | | |

Please Return To
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

761.298 307 8-53

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

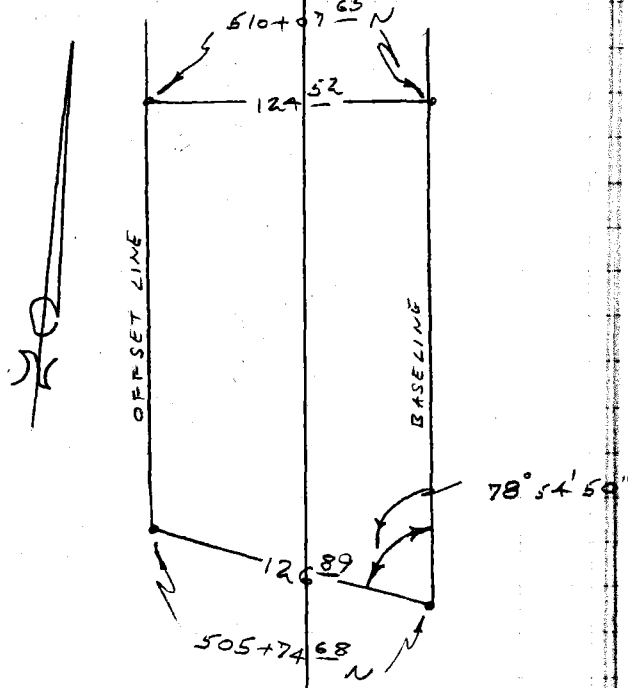
Profile Notes Red Plotted Job No. 843 Division No.
No. Date. Date. Survey of Forestall & Day
X-Sec. Notes Chkd. Checked Survey by F. H. BLANCHARD J.M.V. Date 12-8-53
No. Date. Date. Map No. Index C. Johnson

F.B. 15017 Pg. 23

CUT-IN S 12+00 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Inst. Sight At | On | # | Color | Time | Hor. Ang. |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | 1 | B&W | 8:06 | 76°02 |
| | | | | | | | 2 | R | | 74°22 |
| | | | | | | | 3 | Y | | 72°45 |
| | | | | | | | 4 | B&W | 8:08 | 71°40 |
| | | | | | | | 5 | R | | 70°18 |
| | | | | | | | 6 | Y | | 69°01 |
| | | | | | | | 7 | B&W | 8:10 | 66°58 |
| | | | | | | | 8 | R | | 64°59 |
| | | | | | 505+74.68N | 510+07.65N | * 9 | Y | | 62°23 |
| | | | | | | | 10 | B&W | 8:12 | 60°03 |
| | | | | | | | 11 | R | | 57°38 |
| | | | | | | | 12 | Y | | 55°08 |
| | | | | | | | 13 | B&W | 8:14 | 52°23 |
| | | | | | | | 14 | R | | 48°57 |
| | | | | | | | * 15 | Y | | 46°54 |
| | | | | | | | 16 | B&W | 8:17 | 43°20 |
| | | | | | | | 17 | R | | 38°57 |
| | | | | | | | 18 | Y | | 36°10 |
| | | | | | | | 19 | B&W | 8:19 | 31°36 |
| | | | | | | | 20 | R | | 26°25 |

Remarks



76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 24 Job No. 8412 Division No. 54 Profile
Survey of Bench Mark No. Notes Red Date Plotted
Survey by F. P. Lucchesi and C. Johnson Notes 1966 NS Date Checked
Indexed Date Notes Chkd Date

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 512+00N |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | 21 | Y | | 25°37 | |
| | 22 | B&W | 8:21 | 27°17 | |
| | * 23 | R | | 20°32 | |
| CUT IN 512+00N | | | | | |
| 505+74 68 N | | | | | |
| 510+07 65 N | | | | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red CEM Plotted
No. Date 11/18/54 Date
X-Sec. Notes Chkd CK Checked
No. Date 12-21-54 Date

Job No. 8412 Division No.
Survey of Bassett Entrance
Survey by F.H.B. Notes A.S. Date 12-9-52
Map No. Index No. O. Johnson Date

F.B. 1507 Pg. 25
Studies

BOAT 572+00 N

| STATION # | Color | B. S. Time | H. I. Depth | F. S. Bottom | ELEV. Tide | BOAT Adj. Depth | | Remarks 572+00 N |
|---|---|---|---|---|---|---|---|---|
| 1 | B×W | 8:07 | 32.5 30.5 31.0 | 31.2 | 5.2 | 26.0 | * 2520 | 2540 2520 |
| 2 | R | | 30.0 | 30.3 | 5.2 | 25.1 | 2272 | 2148 + 124 |
| 3 | Y | | 28.1 28.0 29.1 | 28.4 | 5.2 | 23.2 | 2060 | 1936 |
| 4 | B×W | 8:10 | 27.7 | 28.2 | 5.2 | 23.0 | 1938 | 1814 |
| 5 | R | | 28.1 27.0 | 27.4 | 5.3 | 22.1 | 1803 | 1679 |
| 6 | Y | | 27.1 26.3 | 26.6 | 5.3 | 21.3 | 1691 | 1567 |
| 7 | B×W | 8:12 | 26.1 25.6 | 25.8 | 5.3 | 20.5 | 1540 | 1414 |
| 8 | R | | 25.8 24.8 | 25.1 | 5.3 | 19.8 | 1412 | 1288 |
| 9 | Y | | 25.0 24.0 | 24.3 | 5.3 | 19.0 | * 1277 | 1149 1270 1274 |
| 10 | B×W | 8:14 | 23.2 22.0 | 22.4 | 5.3 | 17.1 | 1167 | 1043 |
| 11 | R | | 22.7 21.8 | 22.1 | 5.3 | 16.8 | 1072 | 948 |
| 12 | Y | | 21.5 20.9 | 21.1 | 5.3 | 15.8 | 967 | 863 |
| 13 | B×W | 8:16 | 20.8 20.0 | 20.3 | 5.3 | 15.0 | 904 | 780 |
| 14 | R | | 20.8 19.7 | 20.1 | 5.3 | 14.8 | 814 | 690 |
| 15 | Y | | 19.1 18.0 | 18.4 | 5.3 | 13.1 | * 766 | 642 770 |
| 16 | B×W | 8:18 | 18.2 18.0 | 18.4 | 5.4 | 13.0 | 691 | 567 ROCKY BOTTOM |
| 17 | R | | 18.0 16.6 | 17.1 | 5.4 | 11.7 | 610 | 486 |
| 18 | Y | | 17.0 15.2 | 15.8 | 5.4 | 10.4 | 563 | 439 |
| 19 | B×W | 8:20 | 14.8 13.8 | 14.1 | 5.4 | 8.7 | 494 | 370 |
| 20 | R | | 12.0 11.4 | 11.6 | 5.4 | 6.2 | 423 | 299 |

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1547 PG. 26 Job No. 8412 Division No. Studies Notes Red. CEM Plotted
Survey of Beach Erosion Date 11/18/54 No. Profile
Survey by E.H.B. Notes A.S. Notes Chkd. KK Checked
Indexed C. Johnson Date Date 12-21-54 Date No. X-Sec.

| STATION # | Color | B. S. Time | H. I. Mean Depth | F. S. Bottom | ELEV. Tide | BOAT Adj. Depth | | 5127+00N Remarks |
|---|---|---|---|---|---|---|---|---|
| 21 | Y | | 10.8<br>9.7 | 10.1 | 5.4 | 4.7 | 387 | 263 +124 |
| 22 | BW | 8:22 | 10.2<br>8.6 | 9.1 | 5.4 | 3.7 | 383 | 259 |
| 23 | R | | 9.2<br>7.7 | 8.2 | 5.4 | 2.8 | 319 | 225 |

Boat 5127+00N

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

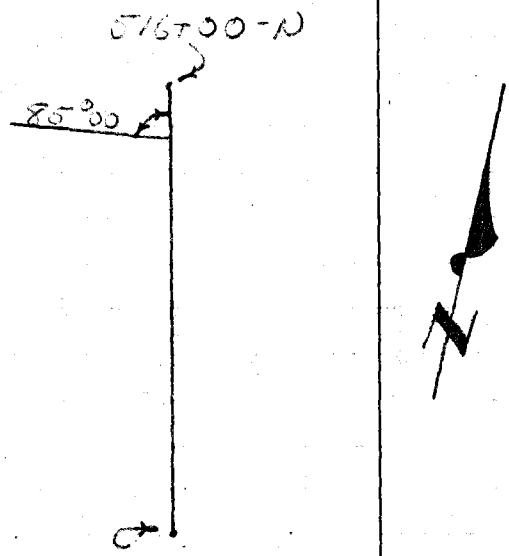
Profile Notes Red. ____ Plotted ____ Job No. 84L2 Division No. ____ F. B. 150 y Pg. 27
No. ____ Date ____ Date ____ Survey of ____ Date ____
X-Sec. Notes Chkd ____ Checked ____ Survey by ____ Date 12-9-53
No. ____ Date ____ Date ____ Map No. ____ Index ____

Inst. Sight
At On

BASELINE 516+00-N
BASELINE 512+00-N

RANGE 516+00-N

| STATION | B. S. # | H. I. Color | F. S. Time | ELEV. Hor. Ang. | Remarks |
|---|---|---|---|---|---|
| | 1 | B&W | 8:35 | 85°00 | |
| | 2 | R | | 85°00 | |
| | 3 | Y | | 85°00 | |
| | 4 | B&W | 8:37 | 85°00 | |
| | 5 | R | | 85°00 | |
| | 6 | Y | | 85°00 | |
| | 7 | B&W | 8:40 | 85°00 | |
| | 8 | R | | 85°00 | |
| | 9 | Y | | 85°00 | |
| | 10 | B&W | 8:42 | 85°00 | |
| | 11 | R | | 85°00 | |
| | 12 | Y | | 85°00 | |
| | 13 | B&W | 8:44 | 85°00 | |
| | 14 | R | | 85°00 | |
| | 15 | Y | | 85°00 | |
| | 16 | B&W | 8:46 | 85°00 | |
| | 17 | R | | 85°00 | |
| | 18 | Y | | 85°00 | |
| | 19 | B&W | 8:49 | 85°00 | |
| | 20 | R | | 85°00 | |






Range 516+00-N

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1501 Pg. 28 | Job No. 8412 Division No. | Notes Red. | Plotted | No.
Survey of DC4-H Edelson Study | Date | Date | X-Sec.
Survey by K.C. Johnson | Notes | Notes Chkd. | Checked
Indexed | Date | Date | Date | No.
Profile

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE 516+00-N | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | | Y | | 85 00 | | |
| | 22 | B+W | 8:52 | 75 00 | | |

Range 516+00 N

516+00 N 22 B+W 8:52 75 00

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

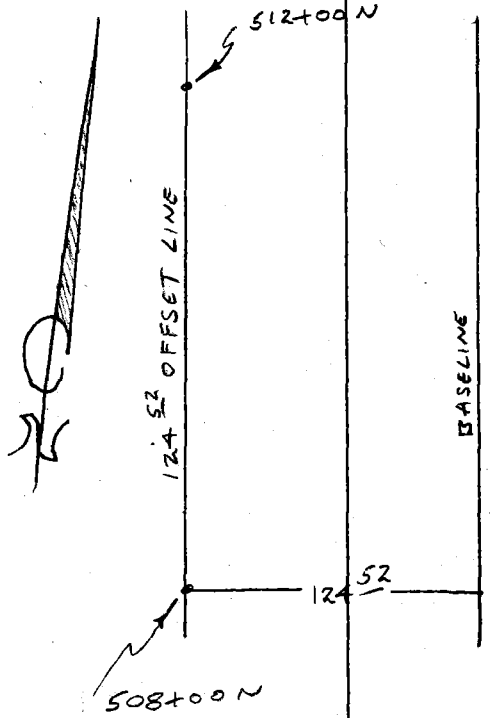
**Do not extend notes this side of this line.**

Profile No. Notes Red Plotted Job No. 842 Division No. F.B. 1507 Pg. 29
X-Sec. No. Date Date Survey of Beach Erosion Studies
Notes Ckd. Date Checked Survey by F. H. BLANCHARD, L.S. No. Date 12-9-53
No. Date Date Map No. Indexed C. Johnson Date

CUT-IN 516+00 N

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. |
| | 1 | B+W | 8:34 | 66°03 |
| | 2 | R | | 63°42 |
| | 3 | Y | | 61°23 |
| | 4 | B+W | 8:38 | 59°13 |
| | 5 | R | | 56°50 |
| | 6 | Y | | 54°27 |
| | 7 | B+W | 8:40 | 51°40 |
| | 8 | R | | 48°39 |
| | 9 | Y | | 45°36 |
| | 10 | B+W | 8:42 | 42°49 |
| | 11 | R | | 39°22 |
| | 12 | Y | | 36°31 |
| | 13 | B+W | 8:43 | 34°29 |
| | 14 | R | | 31°01 |
| | 15 | Y | | 28°31 |
| | 16 | B+W | 8:45 | 25°17 |
| | 17 | R | | 22°34 |
| | 18 | Y | | 19°22 |
| | 19 | B+W | 8:48 | 18°17 |
| | 20 | R | | 16°27 |

508+00 N 124.52 OFFSET
512+00 N 124.52 OFFSET




CUT IN 516+00 N

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 PG. 30 Job No. 8412 Division No. Notes Red. Plotted
Survey of Beach Erosion Studies Date Date
Survey by: Notes Robbins Notes Chkd Checked
C. Johnson Date Date
Indexed Date

Profile No. X-Sec. No.

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 516+00 |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | 21 | Y | | 15° 11 | |
| | 22 | B&W | 8:51 | 14° 08 | |
| CUT IN 516+00 N 508+00 N 124 52 OFFSET | | | | | |
| 512+00 N 124 52 OFFSET | | | | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile
Notes Red CEM Plotted Job No. 842 Division No.
No. Date 1/18/54 Survey of Beach Erosion Studies F.B. 1567 Pg. 31
X-Sec. Notes Chkd KK Date Survey by EMB Notes A.S. Date 12-9-53
No. Date 1-21-54 Checked Map No. Index C. Johnson

| STATION # | Color | B. S. Time | H. I. Depth | F. S. Bottom | ELEV. Tide | BOAT Adj. Depth | 516700N Remarks |
|---|---|---|---|---|---|---|---|
| | | | 33.0 | | | | 2450 |
| 1 | B×W | 8:36 | 31.8 | 32.2 | 5.6 | 26.6 | RANGE OFF CENTER LINE OF GRAIN |
| 2 | R | | 30.3 | 29.4 | 5.6 | 23.8 | 2160 |
| 3 | Y | | 29.0 | 28.3 | 5.6 | 22.7 | 1940 |
| 4 | B×W | 8:39 | 28.8 | 27.3 | 5.6 | 21.7 | 1760 |
| 5 | R | | 27.1 | 26.4 | 5.6 | 20.8 | 1595 |
| 6 | Y | | 26.0 | 26,0 | 5.6 | 20.4 | 1453 |
| 7 | B×W | 8:41 | 25.6 | 24.3 | 5.6 | 18.7 | 1310 |
| 8 | R | | 24.0 | 23.3 | 5.6 | 17.7 | 1181 |
| 9 | Y | | 23.0 | 21.6 | 5.7 | 15.9 | 1066 |
| 10 | B×W | 8:43 | 22.9 | 21.6 | 5.7 | 15.9 | 974 |
| 11 | R | | 21.0 | 20.4 | 5.7 | 14.7 | 872 |
| 12 | Y | | 21.1 | 18.3 | 5.7 | 12.6 | 797 |
| 13 | B×W | 8:45 | 20.0 | 17.3 | 5.7 | 11.6 | 745 |
| 14 | R | | 18.0 | 16.8 | 5.7 | 11.1 | 670 |
| 15 | Y | | 18.0 | 17.2 | 5.7 | 11.5 | 615 |
| 16 | B×W | 8:47 | 17.0 | 14.3 | 5.7 | 8.6 | 552 |
| 17 | R | | 17.3 | 13.2 | 5.7 | 7.5 | 502 ROCKY BOTTOM |
| 18 | Y | | 16.5 | 12.5 | 5.7 | 6.8 | 447 |
| 19 | B×W | 8:50 | 18.2 | 12.3 | 5.7 | 6.6 | 429 |
| 20 | R | | 16.7 | 11.9 | 5.7 | 6.2 | 399 |
| | | | 15.0 | | | | |
| | | | 14.0 | | | | |
| | | | 13.7 | | | | |
| | | | 13.0 | | | | |
| | | | 13.5 | | | | |
| | | | 12.0 | | | | |
| | | | 13.4 | | | | |
| | | | 11.3 | | | | |
| | | | 13.6 | | | | |
| | | | 11.0 | | | | |

BOAT 516700N

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1601 Pg. 7½ Job No. 8442 Division No. Studies Profile No. X-Sec. No.

Survey of Beach Erosion Notes Red. CEM Plotted Date 1/18/54

Survey by E&A Notes A.S. Notes Chkd. CC Checked Date

Indexed L. O. Johnson Date 1-22-54 Date

Boat 5767.00 N

| STATION | B. S. | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | Boat Adj. Depth | 5767.00N Remarks |
|---|---|---|---|---|---|---|
| # Color | Time | | | | | |
| 21 Y | | 10.5<br>9.0 | 9.5 | 5.8 | 3.7 | 379 |
| 22 BvW | 8:53 | 10.0<br>8.5 | 9.0 | 5.8 | 3.2 | 362 |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red Plotted Job No. 5212 Division No.
No. Date Date Survey of Ocean to Lake
X-Sec. Notes Chkd Checked Survey by H. Drinkwater Date 12-9-53
No. Date Date Map No. Index C. Johnson

F.B. 1507 Pg. 33

RANGE 520+00-N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | |
| 520+00-N BASELINE | 1 | B&W | 9:07 | 90°00 | 520+00-N |
| | 2 | R | | 90°00 | |
| | 3 | Y | | 90°00 | |
| 516+00-N BASE LINE | 4 | B&W | 9:10 | 90°00 | BASE LINE |
| | 5 | R | | 90°00 | |
| | 6 | Y | | 90°12 | |
| | 7 | B&W | 9:12 | 90°00 | |
| | 8 | R | | 90°00 | |
| | 9 | Y | | 90°00 | |
| | 10 | B&W | 9:15 | 90°00 | |
| | 11 | R | | 90°00 | |
| | 12 | Y | | 90°00 | |
| | 13 | B&W | 9:17 | 90°00 | 516+00-N |
| | 14 | R | | 90°00 | |
| | 15 | Y | | 90°00 | |
| | 16 | B&W | 9:19 | 90°00 | |
| | 17 | R | | 90°00 | |
| | 18 | Y | | 89°33 | |
| | 19 | B&W | 9:21 | 90°00 | |
| | 20 | R | | 90°00 | |

Range 520+00 N

F.B. 1507 PG. 24 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by Notes OBEN Notes Chkd. Checked X-Sec.

Indexed O. Johnson Date Date Date No.

Range 520+00N

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. At OH | # | Color | Time | Hor. Ang. | |
| 520+00-N BASELINE | 21 | Y | 9:00 | 90°00 | RANGE |
| 516+00 - N BASELINE | 22 | B&W | 9:25 | 90°00 | |
| | 23 | R | | 90°00 | |
| | 24 | Y | | 90°00 | 520+00-N |

Do not extend notes this side of this line.

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L298 307 10-51

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

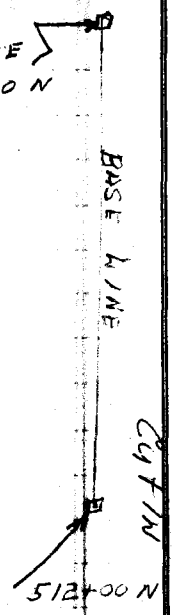
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red No. Date. X-Sec. Notes Chkd. Date. Plotted Date. Checked Date. Job No. R412 Division No. Survey of BEACH EROSION STUDIES Survey by H. BLANCHARD & C. JOHNSON Date 12-9-63 Map No. Indexed Date

F.B. 1507 Pg. 35

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 520+00N |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| 512+00N BASELINE / 520+00N BASELINE | 1 | B&W | 9:06 | 73°50 | |
| | 2 | R | | 72°25 | |
| | 3 | Y | | 70°30 | |
| | 4 | B&W | 9:09 | 68°52 | |
| | 5 | R | | 66°47 | |
| | * 6 | Y | | 64°32 | |
| | 7 | B&W | 9:12 | 62°06 | |
| | 8 | R | | 58°56 | |
| | 9 | Y | | 56°04 | |
| | 10 | B&W | 9:14 | 54°05 | |
| | 11 | R | | 52°14 | |
| | 12 | Y | | 50°05 | |
| | 13 | B&W | 9:16 | 47°05 | |
| | 14 | R | | 45°13 | |
| | 15 | Y | | 42°56 | |
| | 16 | B&W | 9:18 | 40°19 | |
| | 17 | R | | 37°43 | |
| | * 18 | Y | | 35°41 | |
| | 19 | B&W | 9:20 | 32°05 | |
| | 20 | R | | 29°55 | |



F.B. 1509 PG. 36 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by Notes J.M.V. Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date Date Date No.

| STATION | B.S. | H.I. | F.S. | ELEV. | Inst. Sight On # | Color | Time | Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| CUT IN 520+00N 512+00N BASELINE | | | | | | | | | |
| 520+00N BASELINE | | | | | 21 22 23 24 | Y BBU R Y | 7:24 | 21°51 21°42 21°27 21°19 | |
| | | | | | | | | | 520+00N |

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L288 307 10-51

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile
Notes Red CEM Plotted Job No. 8442 Division No. F.B. 1567 Pg. 37
No. Date 11/18/54 Date Survey of BEACH EROSION Date 12-9-53
X-Sec. Notes Chkd Checked Survey by E&S Noted A.S. Date
No. Date Date Map No. Index R. C. Tobias Date

BOAT 5220+00N

| STATION # | Color | B. S. Time | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | Adj. Depth | Remarks | |
|---|---|---|---|---|---|---|---|---|
| 1 | B×W | 9:08 | 34.2 / 33.8 | 33.9 | 5.9 | 28.0 | 2760 | |
| 2 | R | | 32.9 / 32.3 | 32.3 | 5.9 | 26.4 | 2524 | |
| 3 | Y | | 32.0 / 30.2 | 30.8 | 5.9 | 24.9 | 2259 | |
| 4 | B×W | 9:10 | 31.0 / 30.0 | 30.3 | 5.9 | 24.4 | 2070 | |
| 5 | R | | 29.5 / 27.5 | 28.2 | 5.9 | 22.3 | 1865 | |
| 6 | Y | | 28.0 / 27.0 | 27.3 | 5.9 | 21.4 | 1693 1680 | 1680 60 1693 |
| 7 | B×W | 9:13 | 27.1 / 26.0 | 26.4 | 5.9 | 20.5 | 1511 | |
| 8 | R | | 26.0 / 24.5 | 25.0 | 5.9 | 19.1 | 1328 | |
| 9 | Y | | 25.0 / 23.0 | 23.7 | 5.9 | 17.8 | 1189 | |
| 10 | B×W | 9:15 | 24.0 / 23.0 | 23.3 | 5.9 | 17.4 | 1146 | |
| 11 | R | | 24.1 / 23.0 | 23.4 | 5.9 | 17.5 | 1033 | |
| 12 | Y | | 22.4 / 21.5 | 21.8 | 5.9 | 15.9 | 956 | |
| 13 | B×W | 9:17 | 22.1 / 20.2 | 20.8 | 5.9 | 14.9 | 860 | Rocky Bottom |
| 14 | R | | 20.8 / 19.0 | 19.6 | 5.9 | 13.7 | 806 | |
| 15 | Y | | 20.5 / 19.0 | 19.5 | 5.9 | 13.6 | 744 | |
| 16 | B×W | 9:20 | 17.6 / 17.0 | 17.2 | 6.0 | 11.2 | 679 | |
| 17 | R | | 16.9 / 16.0 | 16.3 | 6.0 | 10.3 | 619 | |
| 18 | Y | | 15.8 / 15.0 | 15.3 | 6.0 | 9.3 | 571 575 | 578 574 |
| 19 | B×W | 9:21 | 19.8 / 13.0 | 13.3 | 6.0 | 7.3 | 502 | |
| 20 | R | | 13.7 / 12.1 | 12.6 | 6.0 | 6.6 | 460 | |

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 PG. 38
Job No. 8412 Division No. Profile
Survey of Beach Erosion Std. 12.5 Date 1/18/54 No. X-Sec.
Survey by E.H.B. Notes AS Notes Chkd. A.K. Checked
Indexed C. Johnson Date Date 1-21-54 Date No.
Notes Red. CEM Plotted

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | 520 TOON |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom Tide | | Adj. Depth | Remarks |
| 21 Y | | 13.0<br>11.8<br>13.2 | 12.2 | 6.0 | 6.2 | 424 |
| 22 B+W | 9:25 | 12.4<br>9.7 | 12.7 | 6.0 | 6.7 | 376 |
| 23 R | | 8.8<br>9.0 | 9.1 | 6.0 | 3.1 | 339 |
| 24 Y | | 7.8 | 8.2 | 6.0 | 2.2 | 312 |

Boat 520 toon

76L298 307 8-53

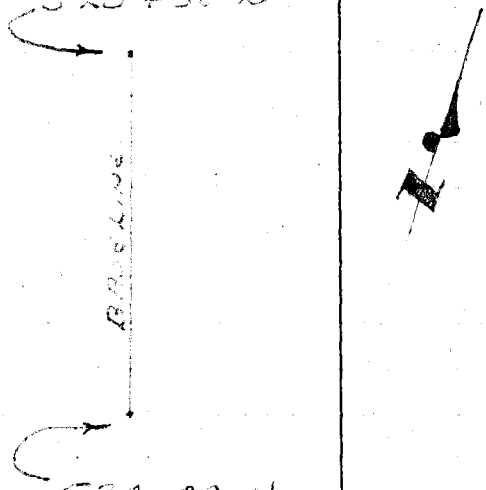
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1507 Pg. 39
No. ____ Date ____ Date ____ Survey of BASELINE Date 12-9-53
X-Sec. Notes Chkd ____ Checked ____ Survey by: H. BLANCHARD CREW
No. ____ Date ____ Date ____ Map No. ____ Index ____ C. Johnson

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE 525+37-N |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks |
| | 1 | B&W | 10:40 | 90°00 | |
| | 2 | R | | 90°00 | |
| | 3 | Y | | 90°00 | |
| | 4 | B&W | 10:42 | 90°00 | |
| | 5 | R | | 90°00 | |
| | 6 | Y | | 90°00 | |
| | 7 | B&W | 10:45 | 90°00 | |
| | 8 | R | | 90°00 | |
| | 9 | Y | | 90°00 | |
| | 10 | B&W | 10:48 | 90°00 | |
| | 11 | R | | 90°00 | |
| | 12 | Y | | 90°00 | |
| | 13 | B&W | 10:50 | 90°00 | |
| | 14 | R | | 90°00 | |
| | 15 | Y | | 90°00 | |
| | 16 | B&W | 10:52 | 90°00 | |
| | 17 | R | | 90°00 | |
| | 18 | Y | | 90°00 | |
| | 19 | B&W | 10:53 | 90°00 | |
| | 20 | R | | 90°00 | |




Range 525+38 N

F. B. 1509 Pg. 40 | Job No. 8412 Division No. | Notes Red. | Plotted | No. | Profile

Survey of BEACH EROSION Study | Date | Date | No. | X-Sec.

Survey by [illegible] | Notes Chkd. | Checked | No.

Indexed by L. C. Johnson | Date | Date | Date

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | REDUCE | S 25°37'32" W |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | W | | 20 | | |
| | 22 | R & W | 1025 | 40 | | |
| | 23 | R | | 70 | | |
| S 25°37'32" W Boat Range | | | | | | |
| S 31°00'00" W Beacon | | | | | | |
| Range S 25°37'32" W | | | | | | |

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

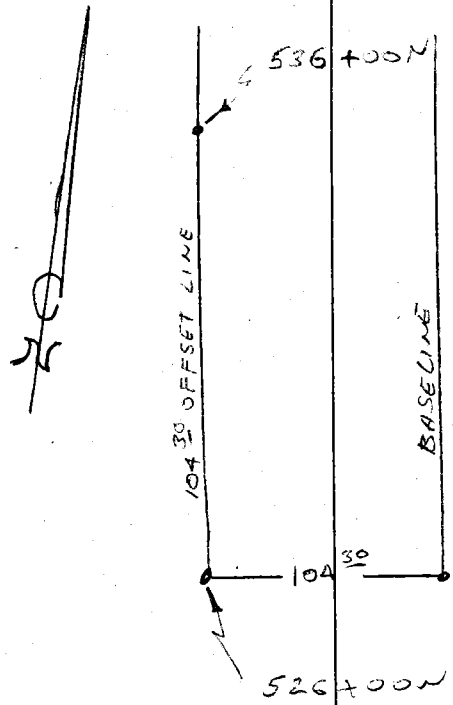
**Do not extend notes this side of this line.**

OUT-IN 525+38 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight At / On | # | Color | Time | Hor. Ang. | |
| | 1 | B&W | 10:39 | 66°24' | |
| | 2 | R | | 62°51' | |
| | 3 | Y | | 59°45' | |
| | 4 | B&W | 10:42 | 56°32' | |
| | 5 | R | | 54°31' | |
| | 6 | Y | | 51°52' | |
| | 7 | B&W | 10:45 | 49°17' | |
| | 8 | R | | 46°05' | |
| | 9 | Y | | 43°26' | |
| | 10 | B&W | 10:47 | 40°54' | |
| | 11 | R | | 38°36' | |
| | 12 | Y | | 36°07' | |
| | 13 | B&W | 10:49 | 33°55' | |
| | 14 | R | | 31°20' | |
| | 15 | Y | | 29°30' | |
| | 16 | B&W | 10:52 | 26°52' | |
| | 17 | R | | 24°17' | |
| | 18 | Y | | 21°11' | |
| | 19 | B&W | 10°54' | 18°19' | |
| | 20 | R | | 15°40' | |

536+00N 104 30' OFFSET

526+00N 104 30' OFFSET




OUT IN 525+38 N

Profile Notes Red Plotted Job No. 8412 Division No. F.B. 1556 Z Pg. 41
No. Date Date Survey of Beach Erosion 3/1954
X-Sec. Notes Chkd Checked Survey by F. H. BLANCHARD ER Date 12-9-53
No. Date Date Map No. Ind. C. Johnson

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 PG. 42 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of Beach Erosion Study | Date | Date | No.
Survey by [illegible] Notes Robbins | Notes Chkd. | Checked | X-Sec.
Indexed E. C. Johnson Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut — 1W | 525+38-N |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | 14° 27' | | |
| | 22 | Blue | | 13° 57' | | |
| | 23 | R | | 12° 18' | | |

Cut Ind 525+38 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile
Notes Red. CEM Plotted
No. Job No. 8442 Division No.
Date 1/18/54 Date Survey of BEACH EROSION Studies
X-Sec. Notes Ckkd Checked Survey by E.H.B. Notes A.S. Date 12-9-53
No. Date 1-21-54 Date Map No. Indexed C. Johnson
F.B. 1507 Pg. 43

BOAT 525738 N

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | | 525738 N |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | Adj. Depth | | Remarks |
| 1 B×W | 10:40 | 33.0 32.1 | 32.4 | 5.9 | 26.5 | 2534 | 2430 +104 |
| 2 R | | 31.8 30.1 | 30.7 | 5.9 | 24.8 | 2175 | 2071 |
| 3 Y | | 30.5 29.7 | 30.0 | 5.9 | 24.1 | 1925 | 1821 |
| 4 B×W | 10:44 | 29.2 28.0 | 28.4 | 5.9 | 22.5 | 1714 | 1610 |
| 5 R | | 28.3 26.0 | 27.4 | 5.9 | 21.5 | 1594 | 1490 |
| 6 Y | | 26.5 25.1 | 25.6 | 5.9 | 19.7 | 1457 | 1353 |
| 7 B×W | 10:46 | 25.7 25.0 | 25.2 | 5.9 | 19.3 | 1338 | 1234 |
| 8 R | | 24.7 23.5 | 23.9 | 5.9 | 18.0 | 1207 | 1103 |
| 9 Y | | 23.5 22.5 | 22.8 | 5.9 | 16.9 | 1109 | 1005 |
| 10 B×W | 10:48 | 21.7 20.5 | 20.9 | 5.9 | 15.0 | 1024 | 920 |
| 11 R | | 20.2 19.0 | 19.4 | 5.9 | 13.5 | 952 | 848 |
| 12 Y | | 19.0 17.8 | 18.2 | 5.9 | 12.3 | 879 | 775 |
| 13 B×W | 10:50 | 18.7 17.1 | 17.6 | 5.9 | 11.7 | 818 | 714 ROCKY BOTTOM |
| 14 R | | 17.8 16.6 | 17.0 | 5.9 | 11.1 | 751 | 647 |
| 15 Y | | 17.1 16.0 | 16.4 | 5.9 | 10.5 | 705 | 601 |
| 16 B×W | 10:52 | 15.9 15.0 | 15.3 | 5.9 | 9.4 | 642 | 538 |
| 17 R | | 15.6 13.9 | 14.5 | 5.8 | 8.7 | 583 | 479 |
| 18 Y | | 13.5 12.0 | 12.5 | 5.8 | 6.7 | 516 | 412 |
| 19 B×W | 10:55 | 11.9 10.7 | 10.4 | 5.8 | 4.6 | 456 | 352 |
| 20 R | | 12.7 11.2 | 11.7 | 5.8 | 5.9 | 402 | 298 |

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 507 PG. 44 Job No. 8412 Division No. Beach Erosion Studies Notes Red CEM Plotted
Survey of Beach Erosion Studies Date 1/18/54
Survey by H.W.B. Notes A.S. Notes Chkd. ACC
Indexed C. Johnson Date Date 1-27-54

Profile No. X-Sec. No.

Boat 525738N

| STATION # | Color | Time | B.S. | H.I. Meas. Depth | F.S. Bottom | ELEV. Tide | Boat Adj. Depth | | Remarks 525738N |
|---|---|---|---|---|---|---|---|---|---|
| 21 | Y | | | 11.0<br>10.1 | 10.4 | 5.8 | 4.6 | 378 | 274 +104 |
| 22 | BM | 10:58 | | 10.0<br>9.0 | 9.3 | 5.8 | 3.5 | 368 | 264 |
| 23 | R | | | 9.0<br>7.0 | 7.7 | 5.8 | 1.9 | 339 | 235 |

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

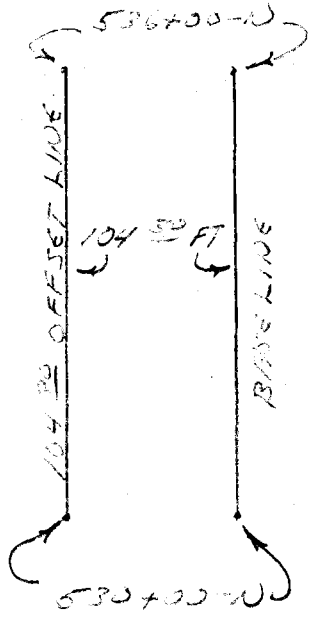
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No. 8412 Division No.____
No.____ Date.____ Date.____ Survey of GENERAL EROSION STUDY
X-Sec. Notes Chkd.____ Checked____ Survey by U.S. Corps of Engrs Date 12/12/53
No.____ Date.____ Date.____ Map No.____ Indexed____

F.B. 1507 Pg. 45

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE | 530+00-N |
|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | | 1 | B&W | 11:15 | 90°00 | |
| | | 2 | R | | 90°00 | |
| | | 3 | | | 90°12 | |
| | | 4 | B&W | 11:17 | 90°00 | |
| | | 5 | R | | 89°55 | |
| | | 6 | | | 90°00 | |
| | | 7 | B&W | 11:20 | 90°00 | |
| | | 8 | R | | 90°40 | |
| | | 9 | | | | |
| | | 10 | B&W | 11:22 | | |
| | | 11 | R | | | |
| | | 12 | | | | |
| | | 13 | B&W | 11:26 | 90°00 | |
| | | 14 | R | | 90°00 | |
| | | 15 | | | 90°00 | |
| | | 16 | B&W | 11:28 | 90°00 | |
| | | 17 | R | | 90°22 | |
| | | 18 | | | 90°00 | |
| | | 19 | B&W | 11:30 | 90°00 | |
| | | 20 | R | | 90°00 | |



Range 530+00 N

F.B. 507 Pg. 46 Job No. 8412 Division No. Notes Red. Plotted
Survey of BEECH EROSION STUDY Date No.
Survey by R. O. Johnson Notes 9 DEC Date Notes Chkd. Checked Date X-Sec. No.
Indexed R. O. Johnson Date Date Profile

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | Rods | Rods |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | F | | 90°00 | | |
| | 22 | Red | 11:35 | 90°03 | | |
| Range 53 to 60 N | | | | | | |
| 53+00 N 00°00'00" E 53+00 | | | | | | |
| 53+00 N 00°00'00" W 53+00 | | | | | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

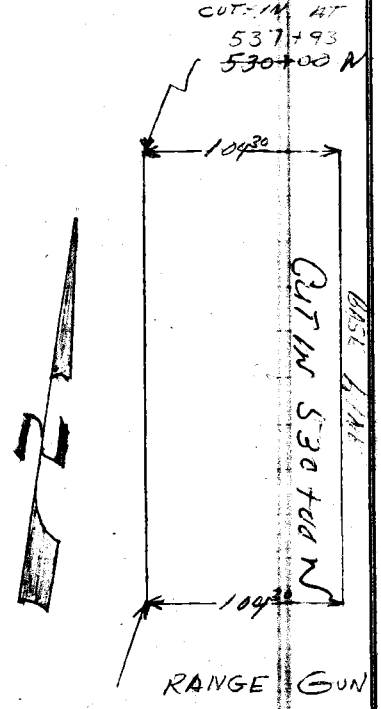
**Do not extend notes this side of this line.**

Profile Notes Red Plotted Job No. 8412 Division No. F.B. 1567 Pg. 97
No. Date Date Survey of Beach Erosion Study
X-Sec. Notes Ckkd Checked Survey by F. H. BLANCHARD & C. O. JOHNSON Date 11-2-53
No. Date Date Map No. Index

CUT - IN 530+00 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | |
| | 1 | R+W | 11:11 | 75°27' | |
| | 2 | R | | 70°48' | |
| | * 3 | Y | | 69°34' | |
| | 4 | B+W | 11:16 | 67°49' | |
| | * 5 | R | | 66°12' | |
| | 6 | Y | | 63°50' | |
| | 7 | B+W | 11:19 | 62°05' | |
| | * 8 | R | | 59°26' | |
| | * 9 | Y | | 58°23' | |
| | 10 | B+W | 11:21 | 56°19' | |
| | 11 | R | | 53°26' | |
| | 12 | Y | | 50°37' | |
| | 13 | B+W | 11:24 | 47°49' | |
| | 14 | R | | 44°43' | |
| | 15 | Y | | 42°21' | |
| | 16 | B+W | 11:26 | 39°06' | |
| | * 17 | R | | 35°06' | |
| | 18 | Y | | 31°23' | |
| | 19 | B+W | 11:28 | 27°36 | |
| | 20 | R | | 22°21 | |

104.30 OFF
N-48
530+00
104.30 OFF
537+93



F.B. 1507 PG. 48 Job No. 2412 Division No. 36 Profile
Survey of Beach Erosion Notes Red Date Plotted No.
Survey by H. C. Johnson Notes Date 12-9-53 Notes Chkd Date Checked Date X-Sec. No.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut - in | 530+00 - N |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | | Remarks |
| | 21 | Y | | 20°57' | | |
| | 22 | R&W | 11:34 | 16°30' | | |

N-48 10+42 Off Set
Cut in 530+06 N
530+00 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red CEM Plotted Job No. 8416 Division No. F.B. 1507 Pg. 49
No. Date 1/18/54 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd K.K. Checked Survey by F.H.B. Notes A.S. Date 12-9-53
No. Date 1-21-54 Date Map No. Index C. Tahmisian

| STATION # | Color | B. S. Time | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | BOAT Adj. Depth | | 530+00N Remarks | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | 33.0 | | | | | | | |
| 1 | B-W | 11:13 | 31.7 | 32.1 | 5.6 | 26.5 | 3159 | 3055 +104 | | |
| | | | 32.5 | | | | | | | |
| 2 | R | | 31.5 | 31.8 | 5.6 | 26.2 | 2381 | 2277 | | |
| | | | 32.0 | | | | | 2096 | 2128 | -32 |
| 3 | Y | | 30.4 | 30.9 | 5.6 | 25.3 | 2200 | ~~2128~~ | 2096 | |
| | | | 30.0 | | | | | | | |
| 4 | B-W | 11:18 | 29.0 | 29.3 | 5.6 | 23.7 | 2049 | 1945 | | |
| | | | 29.7 | | | | | 1803 | 1795 | +5 |
| 5 | R | | 29.0 | 29.2 | 5.6 | 23.6 | 1907 | ~~1798~~ | 1800 | |
| | | | 28.9 | | | | | | | |
| 6 | Y | | 27.9 | 28.0 | 5.6 | 22.4 | 1718 | 1614 | | |
| | | | 27.8 | | | | | | | |
| 7 | B-W | 11:20 | 25.8 | 26.5 | 5.6 | 20.9 | 1601 | 1497 | | |
| | | | 26.9 | | | | | 1330 | 1350 | -22 |
| 8 | R | | 26.0 | 26.3 | 5.5 | 20.8 | 1434 | ~~1352~~ | | |
| | | | 25.4 | | | | | 1275 | 1285 | -13 |
| 9 | Y | | 24.7 | 24.9 | 5.5 | 19.4 | 1379 | ~~1288~~ | | |
| | | | 25.8 | | | | | | | |
| 10 | B-W | 11:23 | 24.1 | 24.5 | 5.5 | 19.0 | 1294 | 1190 | | |
| | | | 23.8 | | | | | | | |
| 11 | R | | 22.9 | 23.2 | 5.5 | 17.7 | 1180 | 1076 | | |
| | | | 22.3 | | | | | | | |
| 12 | Y | | 21.0 | 21.4 | 5.5 | 15.9 | 1070 | 966 | | |
| | | | 22.1 | | | | | | | |
| 13 | B-W | 11:26 | 21.0 | 21.4 | 5.5 | 15.9 | 979 | 875 | | |
| 14 | R | | 19.9 | 19.2 | 5.5 | 13.7 | 890 | 786 | | |
| | | | 18.8 | | | | | | | |
| 15 | Y | | 20.4 | 20.1 | 5.5 | 14.6 | 827 | 723 | | |
| | | | 20.0 | | | | | | | |
| 16 | B-W | 11:29 | 18.6 | 17.5 | 5.4 | 12.1 | 748 | 644 | | |
| | | | 17.0 | | | | | 555 | 558 | -2 |
| 17 | R | | 16.2 | 15.7 | 5.4 | 10.3 | 659 | ~~557~~ | | |
| | | | 15.5 | | | | | | | |
| 18 | Y | | 14.2 | 13.9 | 5.4 | 8.5 | 588 | 484 | | |
| | | | 13.5 | | | | | | | |
| 19 | B-W | 11:31 | 14.0 | 13.3 | 5.4 | 7.9 | 519 | 415 | | |
| | | | 13.0 | | | | | 329 | | |
| 20 | R | | 12.0 | 11.7 | 5.4 | 6.3 | 433 | ROCKY BOTTOM | | |

BOAT 530+00N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 PG. 50 Job No. 2412 Division No. Profile
Survey of Beach Erosion Study U.S. Date 1/18/54 Plotted No. X-Sec.
Survey by C. Johnson Notes A.S. Notes Chkd. K.K. Checked
Indexed Date Date 1-21-54 Date No.

Boat 530+00 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Boat | | 530+00 N |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas Depth | Bottom Tide | | Adj. Depth | | Remarks |
| 21 Y | | 11.1<br>10.0<br>9.8 | 10.4 | 5.4 | 5.0 | 408 | 304 + 104 |
| 22 B×W | 11:34 | 8.0 | 8.6 | 5.4 | 3.2 | 340 | 236 |

Boat 530+00 N

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

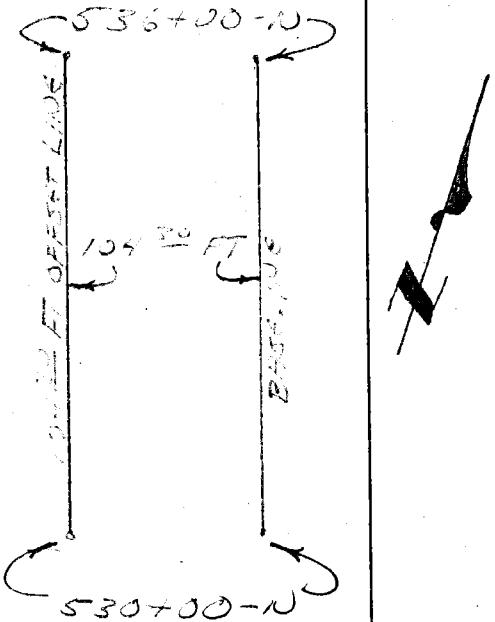
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red Plotted Job No. 8412 Division, No.
No. Date Date Survey of BEECH AVENUE Study F.B. 1507 Pg. 51
X-Sec. Notes Chkd Checked Survey, Hy. BLANCHARD Notes ABEW Date 12-9-52
No. Date Date Map No. Index C. Johnson

RANGE 536+00-N

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE | 536+00-N |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B&W | 11:48 | 90°00 | | |
| | 2 | R | | 90°00 | | |
| | 3 | Y | | 90°00 | | |
| | 4 | B&W | 11:50 | 90°00 | | |
| | 5 | R | | 90°00 | | |
| | 6 | Y | | 90°00 | | |
| | 7 | B&W | 11:52 | 90°00 | | |
| | 8 | R | | 90°00 | | |
| | 9 | Y | | 90°00 | | |
| | 10 | B&W | 11:55 | 90°00 | | |
| | 11 | R | | 90°00 | | |
| | 12 | Y | | 90°00 | | |
| | 13 | B&W | 11:57 | 90°00 | | |
| | 14 | R | | 90°00 | | |
| | 15 | Y | | 90°00 | | |
| | 16 | B&W | 12:00 | 90°00 | | |
| | 17 | R | | 90°00 | | |
| | 18 | Y | | 90°00 | | |
| | 19 | B&W | 12:01 | 90°00 | | |
| | 20 | R | | 90°00 | | |






Range 536+00-N

F.B. 1507 PG. 52 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION Study | Date | Date | No.

Survey by | Notes ORN | Notes Chkd. | Checked | X-Sec.

Indexed C. Johnson | Date | Date | Date | No.

Range 536+00N

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight | | | | | |
| At OH | | | | | |
| # | | | | | |
| Color | | | | | |
| Time | | | | | |
| Hor. Ang. | | | | | |
| | | | | | |
| | | | | | |
|

76L298 307 10-51

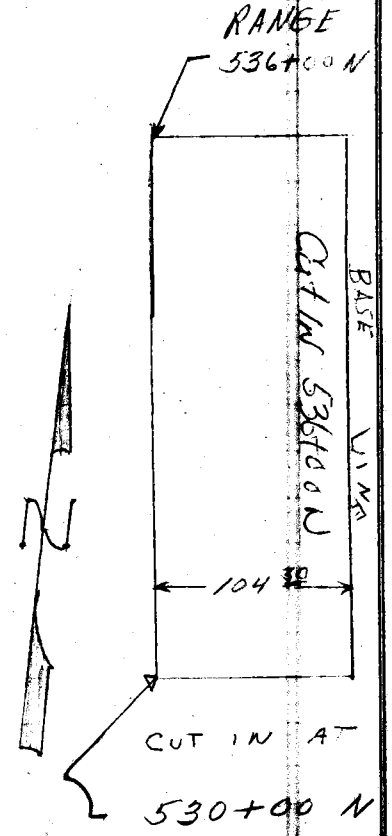
PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red ____ Plotted ____ Job No. 5116 Division No. ____ F.B. 1567 Pg. 53
No. ____ Date ____ Date ____ Survey of ____
X-Sec. Notes Chkd ____ Checked ____ Survey by F. H. BLANCHARD Date 12-7-53
No. ____ Date ____ Date ____ Map No. ____ Indexed ____

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT - IN | 536+00 N |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B&W | 11:48 | 74°47' | | |
| | 2 | R | | 73°23' | | |
| | 3 | Y | | 72°15' | | |
| | 4 | B&W | 11:50 | 70°54' | | |
| | 5 | R | | 69°43' | | |
| | 6 | Y | | 68°41' | | |
| | 7 | B&W | 11:52 | 66°34' | | |
| | 8 | R | | 64°34' | | |
| | 9 | Y | | 61°48' | | |
| | 10 | B&W | 11:54 | 58°24' | | |
| | 11 | R | | 55°16' | | |
| | 12 | Y | | 52°08' | | |
| | 13 | B&W | 11:56 | 49°41' | | |
| | 14 | R | | 46°30' | | |
| | 15 | Y | | 42°36' | | |
| | 16 | B&W | 11:58 | 38°33' | | |
| | 17 | R | | 35°01' | | |
| | 18 | Y | | 30°43' | | |
| | 19 | B&W | 12:00 | 26°07' | | |
| | 20 | R | | 22°16' | | |




530 + 00 - N -
536 + 00 - N -

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 PG. 54 Job No. 8412 Division No. Beach Erosion Study

Survey of [illegible] Notes Red No. Plotted

Survey by C. Johnson Date 12-7-53 Notes Chkd. Date Checked

Indexed Date Date

Profile X-Sec.

| STATION | B. S. | H. I. | F. S. | ELEV. | | 336700 N |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | 20°30' | | |
| | 22 | B+W | 12:03 | 17°28' | | |
| | 23 | R | | 13°31' | | |

City 1N 5360+00 W

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red CEM Plotted Job No. 8412 Division No. F.B. 1567 Pg. 55
No. Date 1/18/54 Date Survey of BEACH EROSION STUDIES
X-Sec. Notes Ckd KK Checked Survey by EHB Notes A.S.L. Date 12-9-53
No. Date 12-54 Date Map No. Indexed C. Johnson

| STATION | | B. S. | H. I. Depth | F. S. Bottom | ELEV. Tide | BOAT Adj. Depth | | 536 TOON Remarks |
|---|---|---|---|---|---|---|---|---|
| # | Color | Time | | | | | | |
| 1 | B+W | 11:48 | 31.5 30.4 | 30.8 | 5.2 | 25.6 | 2309 | 2205 + 104 |
| 2 | R | | 30.0 29.1 | 29.4 | 5.1 | 24.3 | 2115 | 2011 |
| 3 | Y | | 29.7 28.5 | 28.9 | 5.1 | 23.8 | 1978 | 1874 |
| 4 | B+W | 11:50 | 28.8 27.5 | 27.9 | 5.1 | 22.8 | 1837 | 1733 |
| 5 | R | | 28.2 26.8 | 27.3 | 5.1 | 22.2 | 1727 | 1623 |
| 6 | Y | | 27.1 26.2 | 26.5 | 5.1 | 21.4 | 1607 | 1503 |
| 7 | B+W | 11:53 | 26.3 25.6 | 25.8 | 5.1 | 20.7 | 1488 | 1384 |
| 8 | R | | 25.2 24.0 | 24.4 | 5.1 | 19.3 | 1366 | 1262 |
| 9 | Y | | 24.1 23.0 | 23.4 | 5.1 | 18.3 | 1223 | 1119 |
| 10 | B+W | 11:55 | 22.6 22.1 | 21.6 | 5.0 | 16.6 | 1079 | 975 |
| 11 | R | | 22.0 21.2 | 21.5 | 5.0 | 16.5 | 969 | 865 |
| 12 | Y | | 20.5 19.7 | 19.6 | 5.0 | 14.6 | 876 | 772 |
| 13 | B+W | 11:58 | 22.0 19.9 | 20.6 | 5.0 | 15.6 | 811 | 707 |
| 14 | R | | 19.8 19.0 | 19.3 | 5.0 | 14.3 | 736 | 632 ROCKY BOTTOM |
| 15 | Y | | 17.7 16.6 | 17.0 | 5.0 | 12.0 | 656 | 552 |
| 16 | B+W | 12:00 | 16.9 15.5 | 15.8 | 5.0 | 10.8 | 582 | 478 |
| 17 | R | | 16.7 15.7 | 16.1 | 5.0 | 11.1 | 524 | 420 |
| 18 | Y | | 15.6 14.3 | 14.7 | 5.0 | 9.7 | 460 | 356 |
| 19 | B+W | 12:02 | 13.3 12.1 | 12.6 | 4.9 | 7.7 | 398 | 294 |
| 20 | R | | 11.6 10.4 | 10.8 | 4.9 | 5.9 | 350 | 246 |

EAST SECTION

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 56 Job No. 8412 Division No. Profile
Survey of Beach Erosion Notes Red CEM Plotted No.
Survey by EHS Notes A.S. Date 1/18/54 Date X-Sec.
Indexed G. Thomson Date Notes Chkd Checked
Date 1-22-54 Date No.

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | 536+00N |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom Tide | | Adj. Depth | Remarks |
| 21 Y | | 11.0 9.0 | 9.7 | 4.9 | 4.8 | 326 222 +104 |
| 22 B+W | 12:05 | 8.7 8.1 | 8.3 | 4.9 | 3.4 | 293 189 |
| 23 R | | 7.6 7.6 | 7.9 | 4.9 | 3.0 | 273 169 |

Boat 536+00N

76L298 307 10-51

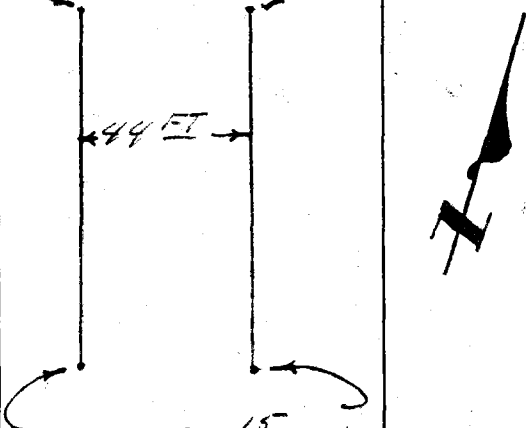
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1508 Pg. 57
No. ____ Date ____ Survey of BEACH EROSION Study
X-Sec. ____ Date ____ Checked ____ Survey Chief H.L. BLANCHARD Party Chief C. JOHNSON Date 12-2-52
No. ____ Date ____ Map No. ____ Indexed ____

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE 540+00-N | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| 540+00-N 44 ET OFF | 1 | B&W | 12:28 | 90°00 | | |
| | 2 | R | | 90°00 | | |
| | 3 | Y | | 90°00 | | |
| 537+93 15"-N 44 ET OFF | 4 | B&W | 12:31 | 90°00 | | |
| | 5 | R | | 90°00 | | |
| | 6 | Y | | 90°00 | | |
| | 7 | B&W | 12:33 | 90°00 | | |
| | 8 | R | | 90°00 | | |
| | 9 | Y | | 90°00 | | |
| | 10 | B&W | 12:36 | 90°00 | | |
| | 11 | R | | 90°00 | | |
| | 12 | Y | | 90°00 | | |
| | 13 | B&W | 12:39 | 90°00 | | |
| | 14 | R | | 90°00 | | |
| | 15 | Y | | 90°00 | | |
| | 16 | B&W | 12:40 | 90°00 | | |
| | 17 | R | | 89°49 | | |
| | 18 | Y | | 90°00 | | |
| | 19 | B&W | 12:42 | 90°00 | | |
| | 20 | R | | 90°00 | | |






Range 540+00 N

F.B. 1507 PG. 58 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION Study | Date | Date | No.

Survey by [redacted] | Notes OBED | Notes Chkd. | Checked | X-Sec.

Indexed L. C. Johnson | Date | Date | Date | No.

Range 540+00N

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight At | # | Color | Time | Hor. Ang. | |
| 540+00-N 44 Ft OFF | 21 | Y | 12°44 | 90°00' | RANGE |
| | 22 | B&W | | 90°00' | |
| 537+93½N 44 Ft OFF | 23 | R | | 90°00' | |
| | 24 | Y | | 90°00' | |
| | 25 | B&W | 12°52 | 90°00' | |
| | 26 | R | | 90°00' | |

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76L298 307 10-51

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

540+00-N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

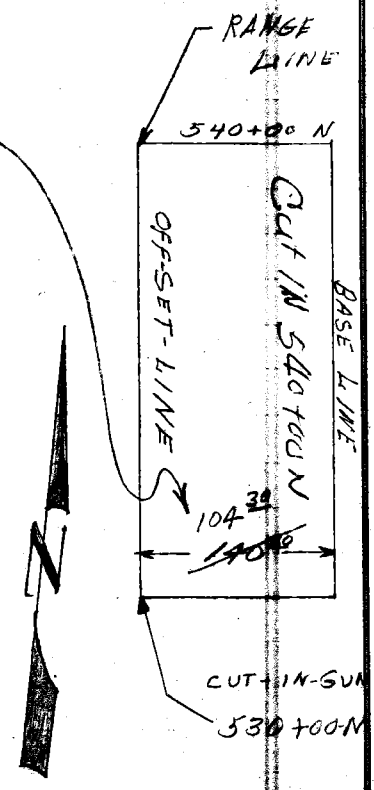
Profile Notes Red Plotted Job No. 2412 Division No.
No. Date Date Survey of Beach Erosion
X-Sec. Notes Chkd Checked Survey by [illegible] Date 12-9-53
No. Date Date Map No. Indexed C. [illegible]

F.B. 1356 Pg. 59

Cut - in 540+00 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | |
| | 1 | R&W | 12:28 | 66°40' | |
| | 2 | R | | 65°66' | void |
| | 3 | Y | | 65 25' | |
| | 4 | B&W | 12:30 | 64°13' | |
| | 5 | R | | 63°18' | |
| | 6 | Y | | 62°16' | |
| | 7 | B&W | 12:32 | 61°22' | |
| | 8 | R | | 59°57' | |
| | 9 | Y | | 58°22' | |
| | 10 | B&W | 12:35 | 56°48' | |
| | 11 | R | | 54°49' | |
| | 12 | Y | | 52°57' | |
| | 13 | B&W | 12:37 | 51°01' | |
| | 14 | R | | 48°49' | |
| | 15 | Y | | 46°12' | |
| | 16 | B&W | 12:39 | 44°11' | |
| | 17 | R | | 41°32' | |
| | 18 | Y | | 38°57' | |
| | 19 | B&W | | 36°29' | |
| | 20 | R | | 33°37' | |

Figure changed at time notes were reduced in office as per previous cut-in offset and city layout.




N - 00+085 - 84 - N 1301 30

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 60 Job No. 8412 Division No. Profile
Survey of Beach Erosion Study Notes Red Date Plotted No.
Survey by F.H. Notes Date X-Sec.
Indexed C. Tibbetts Date Notes Chkd Checked No.
Date Date

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN- | 5°46'00" N |
|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | | 21 | Y | | 30°09' | |
| | | 22 | B-W | 12.43 | 9°10' | |
| | | 23 | R | | 26 | |
| | | 24 | Y | | | |
| | | 25 | B-W | 12.46 | 14020' | |
| | | 26 | R | | 11°56' | |
| N | 104 Ft OFF SET | | | | | |
| N-48 | | | | | | |
| 530+00 | | | | | | |
| CUT 530+00 N | | | | | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red ____ Plotted ____ Job No. 8442 Division No. ____ F.B. 1567 Pg. 61
No. ____ Date ____ Date ____ Survey of BEACH EROSION Studies
X-Sec. Notes Ckkd ____ Checked ____ Survey by F.H.B. & C. Notes A5 Date 12-9-53
No. ____ Date 1-5-54 Date ____ Map No. ____ Indexed ____

| STATION | | B. S. | H. I. Meter Depth | F. S. Bottom | ELEV. Tide | BOAT Adj. Depth | | 540+00 N Remarks |
|---|---|---|---|---|---|---|---|---|
| # | Color | Time | | | | | | |
| 1 | B×W | 12:29 | 33.4 / 32.0 | 32.5 | 4.4 | 28.1 | 1669 | 1565 +104 |
| 2 | R | | 33.6 / 32.6 | 32.9 | 4.4 | 28.5 | | void |
| 3 | Y | | 32.8 / 31.9 | 32.2 | 4.4 | 27.8 | 1604 | 1500 |
| 4 | B×W | 12:32 | 32.2 / 31.5 | 31.7 | 4.4 | 27.3 | 1544 | 1440 |
| 5 | R | | 31.0 / 30.1 | 30.4 | 4.4 | 26.0 | 1504 | 1400 |
| 6 | Y | | 31.0 / 30.0 | 30.3 | 4.3 | 26.0 | 1457 | 1353 |
| 7 | B×W | 12:34 | 30.6 / 29.4 | 29.8 | 4.3 | 25.5 | 1419 | 1315 |
| 8 | R | | 29.4 / 27.5 | 28.1 | 4.3 | 23.8 | 1361 | 1257 |
| 9 | Y | | 29.0 / 27.9 | 28.3 | 4.3 | 24.0 | 1237 | 1233 |
| 10 | B×W | 12:37 | 27.0 / 26.8 | 26.9 | 4.3 | 22.6 | 1245 | 1141 |
| 11 | R | | 26.8 / 25.9 | 26.2 | 4.3 | 21.9 | 1177 | 1073 |
| 12 | Y | | 26.1 / 25.1 | 25.4 | 4.2 | 21.2 | 1119 | 1015 |
| 13 | B×W | 12:39 | 25.0 / 23.8 | 24.2 | 4.2 | 20.0 | 1064 | 960 |
| 14 | R | | 24.5 / 23.1 | 23.6 | 4.2 | 19.4 | 1004 | 900 |
| 15 | Y | | 22.9 / 21.8 | 22.2 | 4.2 | 18.0 | 934 | 830 |
| 16 | BWR | 12:41 | 21.2 / 20.0 | 20.4 | 4.2 | 16.2 | 886 | 782 |
| 17 | R | | 18.0 / 18.0 | 18.3 | 4.2 | 14.1 | 821 | 717 |
| 18 | Y | | 18.1 / 16.5 | 17.0 | 4.2 | 12.8 | 764 | 660 |
| 19 | B×W | 12:43 | 17.7 / 16.7 | 17.0 | 4.2 | 12.8 | 714 | 610 Rocky Bottom |
| 20 | R | | 15.0 / 14.6 | 14.3 | 4.1 | 10.2 | 654 | 550 |

Boat 540+00 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 PG. 62 Job No. 8412 Division No. 1 Beach Erosional Study
Survey of Beach Erosional Study
Survey by EHB Notes A.S. Notes Chkd. [illegible] Checked [illegible]
Indexed [illegible] Date [illegible] Date 1-21-58 Date
Profile No. X-Sec. No.
Plotted Date
Notes Red Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Boat | | 540+00N |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | Adj. Depth | | Remarks |
| 21 Y | | 13.4<br>12.0 | 12.5 | 4.1 | 8.4 | 587 | 483 + 104 |
| 22 B&W | 12 45 | 14.0<br>12.0 | 12.7 | 4.1 | 8.6 | 532 | 428 |
| 23 R | | 11.7<br>9.8 | 10.4 | 4.1 | 6.3 | 448 | 344 |
| 24 Y | | 10.0<br>8.8 | 9.2 | 4.1 | 5.1 | 390 | 286 |
| 25 B&W | ~~12 49~~ | 13.3<br>9.2 | 9.9 | 4.1 | 5.8 | 307 | 203 |
| 26 R | | 9.0<br>7.6 | 8.0 | 4.1 | 3.9 | 267 | 163 |

Boat 534+00 N

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

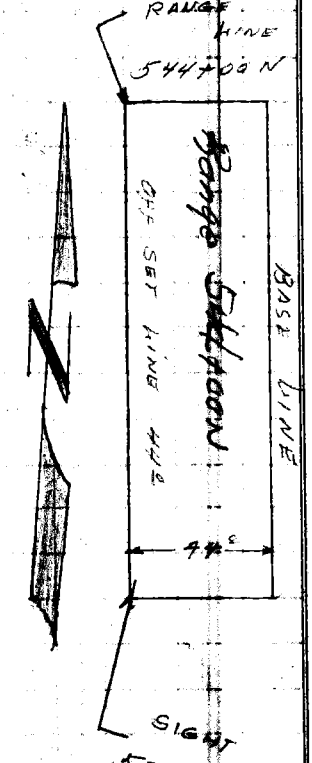
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. |
| | 1 | B+W | 6:46 | 90 00 |
| | 2 | R | | 90° 00 |
| | 3 | V | | 90°00 |
| | 4 | B+W | 6:49 | 90°00 |
| | 5 | R | | 90°00 |
| | 6 | V | | 90°00 |
| | 7 | B+W | 6:51 | 90°00 |
| | 8 | R | | 89°53 |
| | 9 | V | | 90°00 |
| | 10 | B+W | 6:53 | 90°00 |
| | 11 | R | | 90°00 |
| | 12 | V | | 90°00 |
| | 13 | B+W | 6:55 | 90°00 |
| | 14 | R | | 90°00 |
| | 15 | V | | 90°00 |
| | 16 | B+W | 6:57 | 90°53 |
| | 17 | R | | 90°00 |
| | 18 | V | | 90°00 |
| | 19 | B+W | 6:59 | 90°00 |
| | 20 | R | | 90°00 |

RANGE 544+00 - N

Remarks




537+97.89

544+00 - N. 44° 0' 0" W.

Profile Notes Red. Plotted Job No. 8442 Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by
No. Date Date Map No. Indexed
F. B. 1507 Pg. 63

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1307 Pg. 64 Job No. 248 Division No. Notes Red. Plotted No.
Survey of Boundary & Topography Date Date Profile
Survey by C. Johnson Notes Notes Chkd. Checked X-Sec.
Indexed Date 12-10-53 Date Date No.

RANGE STATION 544+00

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE 544+00. N |
|---|---|---|---|---|---|
| Inst. At | Sight On | # Color | Time | Hor. Ang. | Remarks |
| | | 21 Y | | | |
| | | 22 B & W | 7:00 | | |
| | | 23 R | | | |
| | | 24 | | | |
| | | 25 B & W | 7:03 | | |
| | | 26 R | | | |
| | | 27 Y | | | |
| | | 28 B & W | 7:05 | | |
| | | 29 R | | | |
| | | 30 Y | | | |
| 544+00 | 542+00 | | | | |
| RANGE STATION | | | | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red Plotted Job No. Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by Date
No. Date Date Map No. Indexed

F.B. 10507 Pg. 65

| STATION | B.S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight | # | Color | Time | Hor. Ang. |
| At On | 1 | B+W | 6:45 | 78°31' |
| | 2 | R | | 77°19' |
| | 3 | Y | | 76°02' |
| | 4 | B+W | 6:48 | 75°12' |
| | 5 | R | | 74°09' |
| | 6 | Y | | 72°58' |
| | 7 | B+W | 6:50 | 71°26' |
| * | 8 | R | | 69°56' |
| | 9 | Y | | 68°22' |
| | 10 | B+W | 6:52 | 66°47' |
| | 11 | R | | 65°10' |
| | 12 | Y | | 63°15' |
| | 13 | B+W | 6:54 | 61°29' |
| | 14 | R | | 59°38' |
| | 15 | Y | | 57°17' |
| * | 16 | B+W | 6:56 | 55°03' |
| | 17 | R | | 52°57' |
| | 18 | Y | | 51°49' |
| | 19 | B+W | 6:58 | 49°46' |
| | 20 | R | | 47°34' |

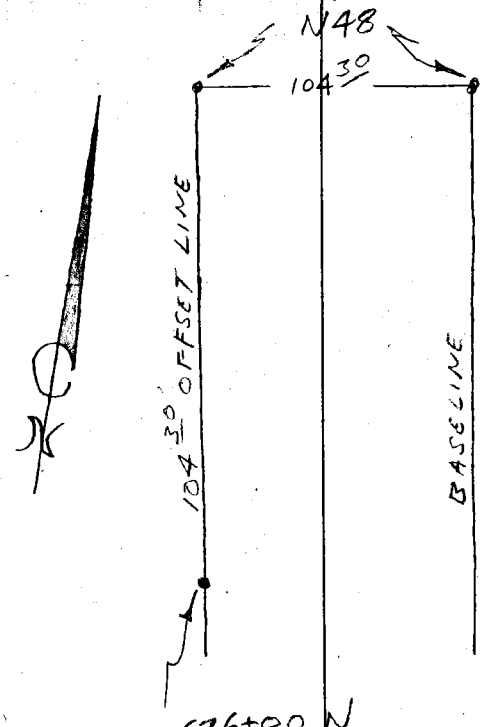
537 23

5364 00 N 104 30 OFFSET

N-48 104 30 OFFSET

Cut - in 544+00 N

Remarks




Cut-in 544+00 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red Date Notes Chkd Date

Division No. Job No. 4212

Survey of Brack Erosion Studies

Survey by F. H. LEONARD Notes Date

Indexed R. C. Johnson Date

F.B. 1567 Pg. 66

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | 4°37' | | |
| | * 22 | B+W | 7:00 | [illegible] | | |
| | 23 | R | | 3[illegible]4' | | |
| | 24 | Y | | [illegible]6' | | |
| | * 25 | B+W | 7:12 | [illegible]13' | | |
| | 26 | R | | [illegible]5' | | |
| | 27 | Y | | [illegible] | | |
| | 28 | B+W | 7:24 | [illegible] | | |
| | 29 | R | | 18°12' | | |
| | 30 | Y | | [illegible]3' | | |
| CUT-in 5+44+00 N | | | | | | |

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red CEM Plotted Job No. 8412 Division No.
No. Date 1/18/54 Date Survey of Beach Erosion
X-Sec. Notes Chkd KK Checked Survey by FHB Noted AS Date 12-10-53
No. Date 1-21-54 Date Map No. Indexed C. Johnson

F.B. 1507 Pg. 67

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | | 5444 00 N |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | Adj. Depth | | Remarks |
| | | 33.0 | | | | | |
| 1 BxW | 6:47 | 32.1 | 32.4 | 3.6 | 28.8 | 2004 | 1900 + 104 |
| 2 R | | 32.1 | | | | | |
| | | 31.3 | 31.6 | 3.7 | 27.9 | 1900 | 1796 |
| 3 Y | | 32.0 | | | | | |
| | | 29.9 | 30.6 | 3.7 | 26.9 | 1801 | 1697 |
| 4 BxW | 6:49 | 30.7 | | | | | |
| | | 28.7 | 29.4 | 3.7 | 25.7 | 1739 | 1635 1662 |
| 5 R | | 29.7 | | | | | |
| | | 28.8 | 28.6 | 3.7 | 24.9 | 1665 | 1561 |
| 6 Y | | 29.8 | | | | | |
| | | 28.6 | 28.9 | 3.7 | 25.2 | 1592 | 1488 |
| 7 BxW | 6:50 | 28.2 | | | | | |
| | | 27.3 | 27.6 | 3.7 | 23.9 | 1503 | 1399 |
| 8 R | | 27.0 | | | | | |
| | | 26.4 | 26.6 | 3.7 | 22.9 | 1421 | 1317 |
| 9 Y | | 26.7 | | | | | |
| | | 25.3 | 25.8 | 3.7 | 22.1 | 1344 | 1240 |
| 10 BxW | 6:52 | 25.7 | | | | | |
| | | 24.4 | 24.8 | 3.7 | 21.1 | 1275 | 1171 |
| 11 R | | 25.0 | | | | | |
| | | 23.7 | 24.1 | 3.7 | 20.4 | 1209 | 1105 |
| 12 Y | | 24.6 | | | | | |
| | | 23.7 | 24.0 | 3.7 | 20.3 | 1139 | 1035 |
| 13 BxW | 6:55 | 23.0 | | | | | |
| | | 22.4 | 22.6 | 3.7 | 18.9 | 1079 | 975 |
| 14 R | | 21.7 | | | | | |
| | | 20.9 | 21.2 | 3.7 | 17.5 | 1016 | 912 |
| 15 Y | | 21.0 | | | | | |
| | | 20.0 | 20.3 | 3.7 | 16.6 | 947 | 843 |
| 16 BxW | 6:57 | 19.5 | | | | | |
| | | 19.0 | 19.2 | 3.8 | 15.4 | 898 | 794 |
| 17 R | | 17.1 | | | | | |
| | | 16.0 | 16.4 | 3.8 | 12.6 | 834 | 730 |
| 18 Y | | 16.1 | | | | | |
| | | 15.7 | 15.8 | 3.8 | 12.0 | 805 | 701 |
| 19 BxW | 6:59 | 16.7 | | | | | 651 |
| | | 15.1 | 15.6 | 3.8 | 11.8 | 755 | ROCKY BOTTOM |
| 20 R | | 13.9 | 14.5 | 3.8 | 10.7 | 714 | 610 |

BOAT 5444 00 N

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 PG. 68 Job No. 8412 Division No. Notes Red. CEM Plotted Profile
Survey of Beach Erosion Studies Date 1/18/54 No. X-Sec.
Survey by EAB Notes A.S. Notes Chkd Checked
Indexed C. Johnson Date Date 1-22-54 No.

| STATION # | Color | Time | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | Boat Adj. Depth | Remarks | 5+44+00N |
|---|---|---|---|---|---|---|---|---|
| | | | 15.1 | | | | | |
| 21 | Y | | 14.2 | 14.5 | 3.8 | 10.7 | 654 | 550 + 104 |
| | | | 13.8 | | | | | |
| 22 | B×W | 7:01 | 12.6 | 13.0 | 3.8 | 9.2 | 606 | 502 |
| | | | 12.8 | | | | | |
| 23 | R | | 11.0 | 11.4 | 3.8 | 7.6 | 550 | 446 |
| | | | 12.3 | | | | | |
| 24 | Y | | 10.6 | 11.3 | 3.8 | 7.5 | 509 | 405 |
| | | | 10.2 | | | | | |
| 25 | B×W | 7:03 | 8.8 | 9.3 | 3.8 | 5.5 | 481 | 377 |
| | | | 10.0 | | | | | |
| 26 | R | | 9.0 | 9.3 | 3.9 | 5.4 | 436 | 332 |
| | | | 9.0 | | | | | |
| 27 | Y | | 8.0 | 8.3 | 3.9 | 4.4 | 391 | 287 |
| | | | 9.1 | | | | | |
| 28 | B×W | 7:05 | 7.9 | 8.3 | 3.9 | 4.4 | 350 | 246 |
| | | | 8.0 | | | | | |
| 29 | R | | 7.0 | 7.3 | 3.9 | 3.4 | 306 | 202 |
| | | | 6.8 | | | | | |
| 30 | Y | | 5.6 | 6.0 | 3.9 | 2.1 | 271 | 167 |

30AT 5+44+00 N -

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

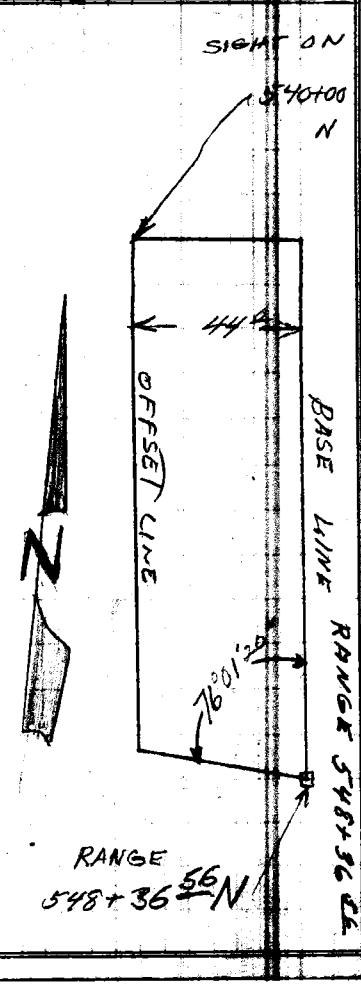
**Do not extend notes this side of this line.**

Profile
No. Date
X-Sec.
No. Date
Notes Red Plotted Job No. 8442 Division No.
Date Date Survey of BASIS OF BEARINGS
Notes Chkd Checked Survey by F. H. BLANCHARD ER Date 12-14-53
Date Date Map No. Indexed C. JOHNSON
F.B. 1507 Pg. 69

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. |
| | 1. | B+W | 9:45 | 76°01'20" |
| | 2. | R | | 76°01'20" |
| | 3 | Y | | 76°01'20" |
| | 4 | B+W | 9:47 | 76°01'20" |
| | 5 | R | | 76°01'20" |
| | 6 | Y | | 76°01'20" |
| 548+36 56 N | 7 | B+W | 9:49 | 76°01'20" |
| | 8 | R | | 76°01'20" |
| | 9 | Y | | 76°01'20" |
| | 10 | B+W | 9:52 | 76°01'20" |
| | 11 | R | | 76°01'20" |
| | 12 | Y | | 76°01'20" |
| | 13 | B+W | 9:59 | 76°01'20" |
| | 14 | R | | 76°01'20" |
| | 15 | Y | | 76°01'20" |
| | 14 | B+W | 10:02 | 76°01'20" |
| | 17 | R | | 76°01'20" |
| | 15 | Y | | 76°01'20" |
| | 19 | B+W | 10:04 | 76°01'20" |
| | 20 | R | | 76°01'20" |
| 540+00 N | | | | |

RANGE 548+36 56 N

Remarks



F.B. 1507 PG. 70 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date | Date | No.

Survey by | Notes ROBBINS | Notes Chkd. | Checked | X-Sec.

Indexed C. Johnson | Date 12-10-53 | Date | Date | No.

RANGE 548+36 56

548+36 56 NORTH

548+00 NORTH

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight | # | Color | Time | Hor. Ang. | |
| At OH | 21 | Y | 10:06 | 76°13'30" | RANGE |
| | 22 | B+W | | 76°13'30" | |
| | 23 | R | | 76°13'20" | |
| | 24 | Y | | 76°13'20" | 548+36 56 N |

76L2BB 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

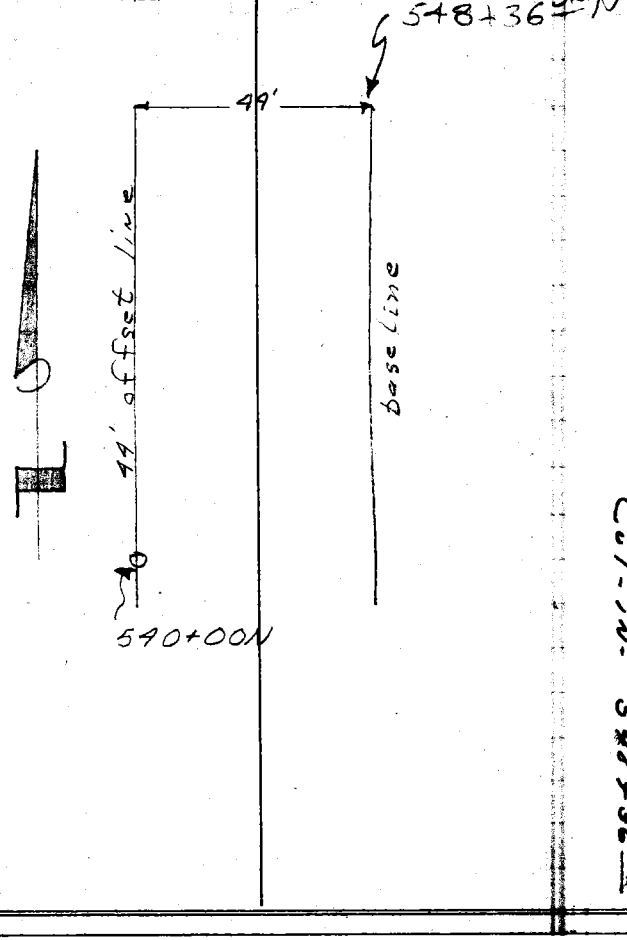
Profile Notes Red No. Date Plotted Job No. 8472 Division No.
X.Sec. Notes Chkd Date Checked Survey of Survey by F. H. BLANC, Nobel Pts Date 10 Dec. 32
No. Date Date Map No. Indexed C. Johnston

F.B. 1507 Pg. 71

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. |
| | 1 | B+W | 9:45 | 59°07' |
| | 2 | R | | 58°07' |
| | 3 | Y | | 56°51' |
| | 4 | B+W | 9:47 | 55°41' |
| | 5 | R | | 54°02' |
| | 6 | Y | | 52°20' |
| | 7 | B+W | 9:49 | 50°50' |
| | 8 | R | | 48°53' |
| | 9 | Y | | 46°49' |
| | 10 | B+W | 9:51 | 45°01' |
| | 11 | R | | 43°22' |
| | 12 | Y | | 41°28' |
| | 13 | B+W | 9:58 | 41°16' |
| | 14 | R | | 38°59' |
| | 15 | Y | | 36°58' |
| | 16 | B+W | 10:01 | 34°47' |
| | 17 | R | | 32°30' |
| | 18 | Y | | 29°51' |
| | 19 | B+W | 10:03 | 27°43' |
| | 20 | R | | 25°50' |

Cut-in 548+36 56 N

Remarks




Cut-in 548+36 56

548+36 56 N
540+00 N
44' offset

76L296 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 PG. 72 Job No. 8442 Division No. Profile
Survey of [illegible] Notes Red. Platted No.
Survey by A. C. Johnson Notes Date Date X-Sec.
Indexed Notes Date Notes Chkd Checked No.
Date Date Date

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | R1 | Y | | 66°37' | | |
| | R2 | B+W | 10:05 | 270°25' | | |
| | R3 | R | | 1°26' | | |
| | R4 | Y | | 17°23' | | |

CUT-IN 548+36 5C

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No.____ X-Sec. No.____

Notes Red CEM Plotted____ Job No. 8448 Division No.____
Date 1/18/54 Date____ Survey of Boat Entrance Channel
Notes Ck'd CEM Checked____ Survey by EHR Notes 26
Date 1-22-54 Date____ Map No.____ Index C.S. Elec. Dive

F.B. 1507 P.S. 73

| STATION | B.S. | H.I. | F.S. | ELEV. | BOAT | | |
|---|---|---|---|---|---|---|---|
| # Color | Time | Uncorr. Depth | Bottom | Tide | Adj. Depth | | Remarks |
| 1 B&W | 9:46 | 34.8 / 33.0 | 33.6 | 5.8 | 27.8 | 1354 | 2585 |
| 2 R | | 34.2 / 32.8 | 33.3 | 5.8 | 27.5 | 1268 | 2421 |
| 3 Y | | 33.0 / 31.7 | 32.1 | 5.8 | 26.3 | 1180 | 2240 |
| 4 B&W | 9:48 | 32.3 / 30.8 | 31.3 | 5.8 | 25.5 | 1100 | 2090 |
| 5 R | | 30.2 / 29.0 | 29.4 | 5.8 | 23.6 | 1005 | 1903 |
| 6 Y | | 29.6 / 27.8 | 28.4 | 5.8 | 22.6 | 920 | 1740 |
| 7 B&W | 9:50 | 28.2 / 26.6 | 27.1 | 5.8 | 21.3 | 853 | 1610 |
| 8 R | | 27.2 / 26.3 | 26.6 | 5.8 | 20.8 | 780 | 1467 |
| 9 Y | | 26.6 / 25.0 | 25.5 | 5.8 | 19.7 | 703 | 1330 |
| 10 B&W | 9:52 | 25.4 / 24.8 | 25.0 | 5.8 | 19.2 | 651 | 1228 |
| 11 R | | 22.8 / 21.3 | 21.8 | 5.9 | 15.9 | 610 | 1142 |
| 12 Y | | 24.8 / 23.9 | 24.2 | 5.9 | 18.3 | 640 | 1197 |
| 13 B&W | 9:59 | 20.1 / 18.9 | 19.3 | 5.9 | 13.4 | 558 | HEAVY OFF SHORE WIND |
| 14 R | | 20.0 / 19.3 | 19.5 | 5.9 | 13.6 | 510 | difficult Sounding |
| 15 Y | | 20.7 / 18.3 | 19.1 | 5.9 | 13.2 | 467 | 865 |
| 16 B&W | 10:03 | 18.0 / 16.7 | 17.1 | 5.9 | 11.2 | 428 | 791 |
| 17 R | | 16.5 / 15.6 | 15.9 | 5.9 | 10.0 | 391 | 720 |
| 18 Y | | 15.0 / 13.9 | 14.3 | 5.9 | 8.4 | 350 | Rocky Bottom |
| 19 B&W | 10:05 | 13.0 / 12.0 | 12.3 | 5.9 | 6.4 | 320 | 581 |
| 20 R | | 10.8 / 10.9 | 11.2 | 5.9 | 5.3 | 295 | 534 |

Boat STA 548+36 SE N
1040
942
648

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

B. 1507 PG. 78 | Job No. 8412 Division No. | Profile | No. | X-Sec. | No.
Survey of Beach Erosion Study Notes Red. CEM Plotted | Date
Survey by F.H.B. Notes A.S. Date 1/18/54 Notes Chkd. [illegible] Checked | Date
Indexed J. C. Johnson Date | Date 1-22-54

BOAT

| STATION | | B. S. | H. I. | F. S. | ELEV. | BOAT | | 5487+36.5 S/N |
|---|---|---|---|---|---|---|---|---|
| # | Color | Time | Meas. Depth | Bottom Tide | | Adj. Depth | Remarks | |
| 21 | Y | | 12.0<br>10.7 | 11.1 | 5.9 | 5.2 | 268 | 482 |
| 22 | B×W | 10:07 | 10.0<br>8.7 | 9.1 | 5.9 | 3.2 | 240 | 435 |
| 23 | R | | 10.6<br>9.0 | 9.5 | 5.9 | 3.6 | 218 | 387 |
| 24 | Y | | 9.0<br>8.0 | 8.3 | 5.9 | 2.4 | 202 | 350 |

BOAT @ 5548+36.5S N.

76L298 307 10-51

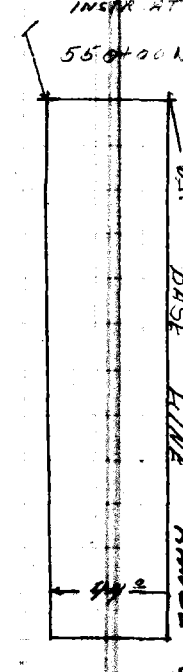
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE | 550+00 |
|---|---|---|---|---|---|---|

| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|
| | | 1 | B&W | 7:23 | 90°00' | |
| | | 2 | R | | 90°00' | |
| | | 3 | Y | | 90°00' | |
| | | 4 | B&W | 7:26 | 90°00' | |
| | | 5 | R | | 90°00' | |
| | | 6 | Y | | 90°00' | |
| 550+00 | BS | 7 | B&W | 7:28 | 90°00' | |
| | | 8 | R | | 90°00' | |
| | | 9 | Y | | 90°00' | |
| | | 10 | B&W | 7:30 | 90°00' | |
| | | 11 | R | | 90°00' | |
| | | 12 | Y | | 90°00' | |
| | | 13 | B&W | 7:32 | 90°00' | |
| | | 14 | R | | 90°00' | |
| | | 15 | Y | | 90°00' | |
| | | 16 | B&W | 7:34 | 90°00' | |
| | | 17 | R | | 90°00' | |
| | | 18 | Y | | 90°00' | |
| | | 19 | B&W | 7:36 | 90°00' | |
| | | 20 | R | | 90°00' | |




Profile
Notes Red_____ Plotted_____ Job No. 7442 Division No._____
No._____ Date_____ Date_____ Survey of BASE LINES
X-Sec. Notes Chkd_____ Checked_____ Survey by F. H. BLANCHARD E.R. Date 12-10-63
No._____ Date_____ Date_____ Map No._____ Indexed_____ C. Job Book No._____

F.B. 1507 Pg. 25

F.B. 1507 PG. 78 | Job No. 3412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date | Date | No.

Survey by | Notes Robbins | Notes Chkd. | Checked | X-Sec.

Indexed C. Johnson | Date | Date | Date | No.

RANGE - 550+00 N

550+00 - N

550+00. B.S.

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight At OR | # | Color | Time | Hor. Ang. | |
| | 21 | Y | | | |
| | 22 | B&W | 7:39 | | |
| | 23 | R | | | |
| | 24 | Y | | | |
| | | | | | RANGE |
| | | | | | 550+00 N |

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L288 307 10-51

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

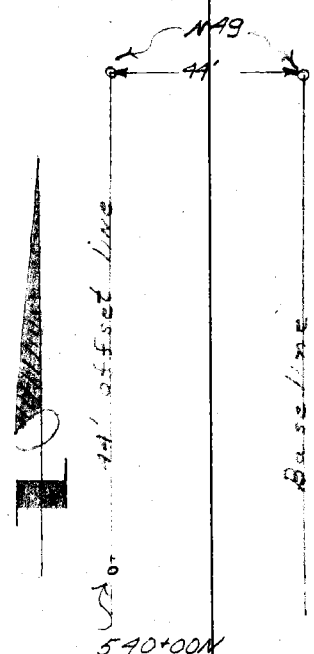
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No. 84-2 Division No.____ F.B. 1507 Pg. 79
No.____ Date____ Date____ Survey of Los Angeles County Date 16 Dec 1963
X-Sec. Notes Chkd____ Checked____ Survey by L. H. Blanchard, R.P.E. Date____
No.____ Date____ Date____ Map No.____ Indexed C. Johnson

Cut-in 550+00N

| STATION | B. S. | H. I. | F. S. | ELEV. | Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|
| Inst. Sight At OH | # | Color | Time | | | |
| | 1 | S-W | 7:23 | | 56°33' | |
| | 2 | R | | | 54°49' | |
| | 3 | Y | | | 53°32' | |
| | 4 | S-W | 7:26 | | 52°00' | |
| | 5 | R | | | 50°34' | |
| | 6 | Y | | | 49°24' | |
| | 7 | S-W | 7:28 | | 47°20' | |
| | 8 | R | | | 44°33' | |
| | 9 | Y | | | 42°31' | |
| | 10 | S-W | 7:30 | | 40°20' | |
| | 11 | R | | | 39°17' | |
| | 12 | Y | | | 38°10' | |
| | 13 | S-W | 7:32 | | 35°35' | |
| | 14 | R | | | 33°20' | |
| | 15 | Y | | | 32°57' | |
| | 16 | S-W | 7:34 | | 33°43' | |
| | 17 | R | | | 28°45' | |
| | 18 | Y | | | 26°07' | |
| | 19 | S-W | 7:36 | | 23°24' | |
| | 20 | R | | | 21°38' | |




44' Offset
22.5' Offset
540+00 N
N 49
540+00 N

Cut-in 550+00N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1571 Pg. 80 Job No. 8412 Division No. Research & Statistics

Survey of Tract 32 Plotted No. Profile

Survey by L.C. Flannigan Date Notes Red Date X-Sec.

Indexed Date Notes Chkd. Date Checked Date No.

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | | | |
| | 22 | B+W | 7:38 | | | |
| | 23 | R | | | | |
| | 24 | Y | | | | |
| | 25 | B+W | | | | |
| | 26 | R | | | | |

CUT-IN 650+00 N.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ F.B. 1607 Pg. 87
No. ____ Date ____ Date ____ Survey of Redondo Extension Studies
X-Sec. Notes Chkd. K.K. Checked ____ Survey by E.H.B. Notes A.S.L. Date 12-10-53
No. ____ Date 12-11-53 Date ____ Map No. ____ Ind. No. C. Johnson

| STATION # | Color | B. S. Time | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | BOAT Adj. Depth | 550'+00N' Remarks |
|---|---|---|---|---|---|---|---|
| 1 | B x W | 7:25 | 31.0 / 30.0 / 30.0 | 30.3 | 4.2 | 26.1 | 2133 |
| 2 | R | | 29.0 / 29.3 | 29.3 | 4.2 | 25.1 | 1970 |
| 3 | Y | | 29.0 / 27.7 / 27.0 | 28.1 | 4.2 | 23.9 | 1855 |
| 4 | B x W | 7:27 | 26.6 / 27.0 | 26.7 | 4.2 | 22.5 | 1726 |
| 5 | R | | 26.0 / 26.2 | 26.3 | 4.2 | 22.1 | 1621 |
| 6 | Y | | 24.8 / 24.9 | 25.3 | 4.2 | 21.1 | 1480 |
| 7 | B x W | 7:29 | 23.5 / 23.9 | 24.0 | 4.3 | 19.7 | 1363 |
| 8 | R | | 22.7 / 22.7 | 23.1 | 4.3 | 18.8 | 1258 |
| 9 | Y | | 22.0 / 20.2 | 22.2 | 4.3 | 17.9 | 1160 |
| 10 | B x W | 7:31 | 19.5 / 20.1 | 19.7 | 4.3 | 15.4 | 1070 |
| 11 | R | | 18.7 / 19.0 | 19.2 | 4.3 | 14.9 | 1020 Rocky Bottom |
| 12 | Y | | 17.5 / 17.7 | 18.0 | 4.3 | 13.7 | 980 |
| 13 | B x W | 7:32 | 16.3 / 17.0 | 16.8 | 4.3 | 12.5 | 912 |
| 14 | R | | 16.0 / 17.6 | 16.3 | 4.3 | 12.0 | 860 |
| 15 | Y | | 16.0 / 15.0 | 16.5 | 4.3 | 12.2 | 791 |
| 16 | B x W | 7:34 | 14.1 / 14.1 | 14.4 | 4.3 | 10.1 | 720 |
| 17 | R | | 13.6 / 12.0 | 13.8 | 4.3 | 9.5 | 664 |
| 18 | Y | | 10.6 / 12.3 | 11.1 | 4.3 | 6.8 | 593 |
| 19 | B x W | 7:36 | 9.9 / 11.0 | 10.8 | 4.4 | 6.4 | 522 |
| 20 | R | | 9.0 | 9.0 | 4.4 | 4.6 | 480 |

20 78

Base - 550+00 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 PG. 87

Job No. 8412 Division No. Beach Erosion Studies Notes Red. Plotted
Survey of Beach Erosion Studies Date Date
Survey by E.H.B. Notes A.S. Notes Chkd. A.S. Checked
Indexed C. Johnson Date Date 1-22-57 Date
Profile No. X-Sec. No.

BOAT 550+00 N.

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | 550+00 N |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom Tide | | Adj. Depth | Remarks |
| 21 Y | | 10.2<br>7.8 | 8.6 | 4.4 | 4.2 | 435 |
| 22 B x W | 7:39 | 6.2<br>8.0 | 8.7 | 4.4 | 4.3 | 380 |
| 23 R | | 8.0<br>7.8 | 8.2 | 4.4 | 3.8 | 337 |
| 24 Y | | 7.6<br>6.0 | 6.5 | 4.4 | 2.1 | 301 |

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

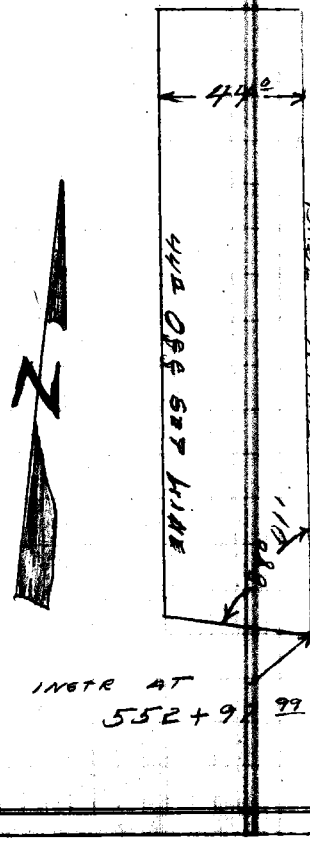
Profile Notes Red Plotted Job No. 2412 Division No.
No. Date Date Survey of F.H. DUNCHARD ER Date 10-10-63
X-Sec. Notes Chkd Checked Survey By: C. JOHNSON
No. Date Date Map No. Index Sec.

F.B. 1507 Pg. 53

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE | 552+97 99 |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B+W | 10:19 | 80°01' | | |
| | 2 | R | | 80°01" | | |
| | 3 | Y | | 80°01" | | |
| | 4 | B+W | 10:21 | 80°01' | | |
| | 5 | R | | 80°01" | | |
| | 6 | Y | | 80°01" | | |
| | 7 | B+W | 10:24 | 80°01' | | |
| | 8 | R | | 80°01" | | |
| | 9 | Y | | 80°01" | | |
| | 10 | B+W | 10:27 | 80°01' | | |
| | 11 | R | | 80°01" | | |
| | 12 | Y | | 80°01" | | |
| | 13 | B+W | 10:30 | 80°01' | | |
| | 14 | R | | 80°01" | | |
| | 15 | Y | | 80°01" | | |
| | 16 | B+W | 10:32 | 80°01' | | |
| | 17 | R | | 80°01" | | |
| | 18 | Y | | 80°01" | | |
| | 19 | B+W | 10:35 | 80°01' | | |
| | 20 | R | | 80°01" | | |

552+97 99 N

552+97 99 B.S.



F.B. 1507 PG. 94 Job No. P412 Division No. Notes Red. Plotted Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by Notes ROBBINS Notes Chkd. Checked X-Sec.

Indexed C. Johnson Date 12 10 53 Date Date No.

RANGE 552+97 99

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| 552+97 99 | | | | | NORTH |
| 552+97 99 | | | | | B.S. |
| Inst. Sight Ft | # | Color | Time | Hor. Ang. | |
| | 21 | Y | | 80°01' | |
| | 22 | BW | 10:37 | 80°11' | |
| | | | | | 552+97 99 |

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L298 307 10-51

76L298 307 10-51

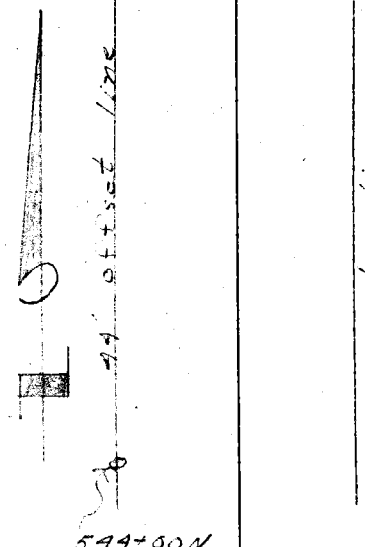
PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red Plotted Job No. 8412 Division No.
No. X-Sec Date Date Survey of F.B. 1507 Pg. 85
No. Notes Chkd Checked Survey by F. H. BLANCHARD 1965 Date Dec. '65
No. Date Date Map No. Traverse by Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in 552+97.99 N |
|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. |
| | | 1 | B+W | 10:19 | 54°38' |
| | | 2 | R | | 53°10' |
| | | 3 | Y | | 51°36' |
| | | 4 | B+W | 10:21 | 49°58' |
| | | 5 | R | | 48°16' |
| | | 6 | Y | | 46°39' |
| | | 7 | B+W | 10:24 | 45°10' |
| | | 8 | R | | 43°43' |
| | | 9 | Y | | 41°43' |
| | | 10 | B+W | 10:26 | 39°45' |
| | | 11 | R | | 37°32' |
| | | 12 | Y | | 35°17' |
| | | 13 | B+W | 10:29 | 33°05' |
| | | 14 | R | | 30°12' |
| | | 15 | Y | | 27°43' |
| | | 16 | B+W | 10:31 | 24°26' |
| | | 17 | R | | 21°59' |
| | | 18 | Y | | 20°07' |
| | | 19 | B+W | 10:34 | 18°22' |
| | | 20 | R | | 17°01' |




Cut-in 552+97.99

F.B. 1507 Pg. 86 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Studies Date Date No.

Survey by C. Johnson Notes Notes Chkd. Checked X-Sec.

Indexed Date Date Date No.

Cut-in 552 + 97 99

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight On | # | Color | Time | Hor. Ang. | |
| | 21 | Y | | | |
| | 22 | Grn | 1537 | | |

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No. 8412 Division No.____ F.B. 1657 Pg. 87
No.____ Date____ Date____ Survey of Beach Erosion Studies
X-Sec. Notes Chkd. K Checked____ Survey by FHB Notes BS Date 12-10-53
No.____ Date 12-14-54 Date____ Map No.____ Traverse C. Johnson Date____

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | | 552+97.99 M | |
|---|---|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | Adj. Depth | | Remarks | |
| 1 B×W | 10:20 | 32.1 31.8 | 31.9 | 5.9 | 26.0 | 2920 | ROCKY BOTTOM | |
| 2 R | | 30.0 28.2 | 28.8 | 5.9 | 22.9 | 2638 | | |
| 3 Y | | 29.0 27.7 | 28.1 | 6.0 | 22.1 | 2380 | | |
| 4 B×W | 10:22 | 27.8 26.0 | 26.6 | 6.0 | 20.6 | 2160 | | |
| 5 R | | 27.2 25.0 | 25.7 | 6.0 | 19.7 | 1955 | | |
| 6 Y | | 25.1 23.9 | 24.3 | 6.0 | 18.3 | 1794 | | |
| 7 B×W | 10:25 | 24.0 22.7 | 23.1 | 6.0 | 17.1 | 1655 | | |
| 8 R | | 25.0 24.0 | 24.3 | 6.0 | 18.3 | 1541 | | |
| 9 Y | | 22.0 20.9 | 21.3 | 6.0 | 15.3 | 1397 | | |
| 10 B×W | 10:28 | 22.0 20.0 | 20.7 | 6.0 | 14.7 | 1273 | | |
| 11 R | | 18.1 17.0 | 17.4 | 6.0 | 11.4 | 1150 | | |
| 12 Y | | 18.0 16.0 | 16.7 | 6.0 | 10.7 | 1036 | | |
| 13 B×W | 10:30 | 16.1 15.1 | 15.4 | 6.0 | 9.4 | 940 | | |
| 14 R | | 15.0 12.5 | 13.3 | 6.0 | 7.3 | 828 | | |
| 15 Y | | 13.3 12.0 | 12.4 | 6.0 | 6.4 | 738 | | |
| 16 B×W | 10:32 | 13.0 12.0 | 12.3 | 6.0 | 6.3 | 633 | | |
| 17 R | | 12.0 11.0 | 11.3 | 6.0 | 5.3 | 569 | | |
| 18 Y | | 11.5 10.5 | 10.5 | 6.0 | 4.5 | 519 | | |
| 19 B×W | 10:36 | 12.0 ~~10.3~~ 9.1 | ~~10.1~~ | 6.0 | ~~4.1~~ ~~4.3~~ | 473 | | |
| 20 R | | 11.2 9.2 | 9.9 | 6.0 | 3.9 | 441 | | |

BOAT 552+97.99

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 98
Job No. 8412 Division No. Notes Red. Plotted
Survey of Beach Erosion Study Date Date
Survey by E.L.B. Notes A.S. Notes Chkd. Checked
Indexed C. Johnson Date Date 1-22-52 Date
Profile No. X-Sec. No.

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | 552+97.99 N |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom Tide | | Adj. Depth | Remarks |
| 21 Y | | 10.0 | 9.3 | 6.0 | 3.3 | 402 |
| 22 Brn | 10:37 | 8.8 | 8.1 | 6.0 | 2.1 | 370 |

Boat 552+97.99

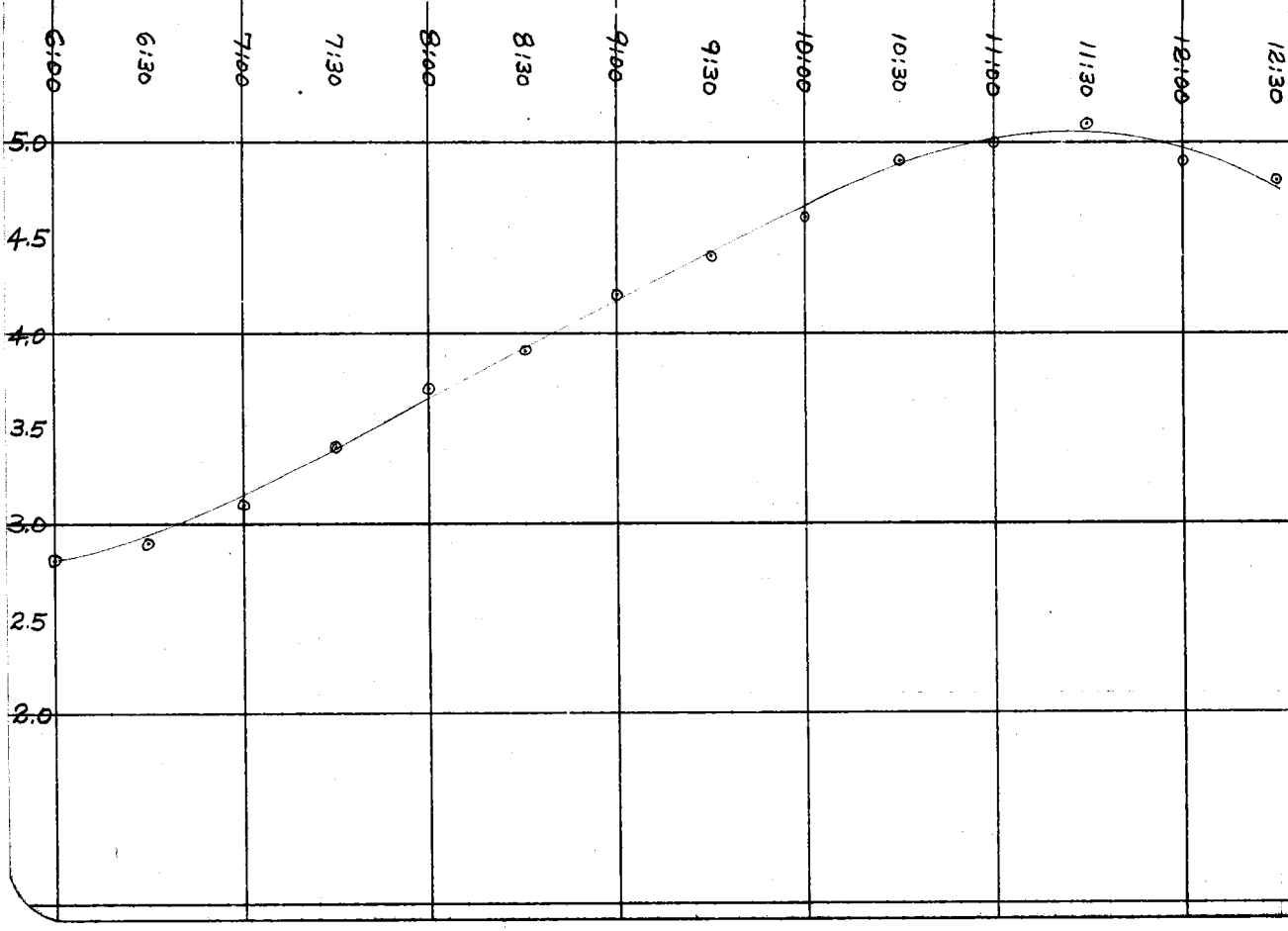
76F3098 247 4-53

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

December 11, 1953




Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. Sht. of
Surveyed by
Notes Date
Indexed

F. B. 1507 Pg.

F. B. 1507 Pg.

December 14, 1953

5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0

13:00
12:30
12:00
11:30
11:00
10:30
10:00
9:30
9:00
8:30
8:00
7:30
7:00
6:30
6:00

RETURN TO
LOS ANGELES COUNTY SURVEYOR
725 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

F. B. 1507 Pg. 89

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed C. Johnson

TIDE

STANDARD TIME

DEC 14 1953

| HOUR | TIDE |
|---|---|
| 6 00 | 28 |
| 6 30 | 29 |
| 7 00 | 31 |
| 7 30 | 34 |
| 8 00 | 37 |
| 8 30 | 39 |
| 9 00 | 42 |
| 9 30 | 44 |
| 10 00 | 46 |
| 10 30 | 49 |
| 11 00 | 50 |
| 11 30 | 51 |
| 12 00 | 49 |
| 12 30 | 48 |

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F309S 247 4-53

F. B. 1609 PG. 90

TIDE

STANDARD TIME

DEC 14 1953

| HOUR | TIDE |
|---|---|
| 6 00 | 4 2 |
| 6 30 | 3 8 |
| 7 00 | 3 5 |
| 7 30 | 3 1 |
| 8 00 | 2 6 |
| 8 30 | 2 3 |
| 9 00 | 2 1 |
| 9 30 | 1 9 |
| 10 00 | 1 8 |
| 10 30 | 1 8 |
| 11 00 | 1 9 |
| 11 30 | 2 0 |
| 12 00 | 2 2 |
| 12 30 | 2 4 |
| 1 00 | 2 7 |

RETURN TO
LOS ANGELES COUNTY SURVEYOR
728 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

76L298 307 10-61

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

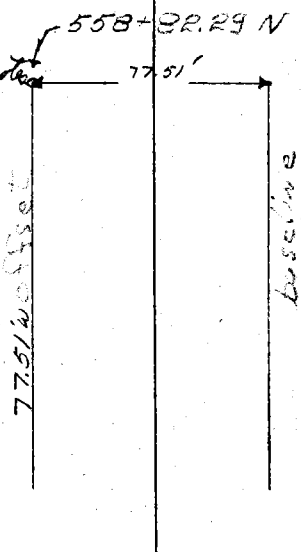
**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red ____ Plotted ____ Job No. 8412 Division No. ____ B.B. 1507 Pg. 91
No. ____ Date ____ Date ____ Survey of ____ X-Sec. ____
Notes Ckld ____ Checked ____ Survey by ____ No. ____
Date ____ Date ____ Map No. ____

Range 558+82.29 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | | | |
| | 1 | | 6:35 | | 90°00' | → from foresight & back sight notes it appeared that correct ∠ of 85°39' was turned & is hence used in plotting range LK |
| | 2 | R | | | 90°00' | |
| | 3 | | | | 90°00' | |
| | 4 | | 6:47 | | 90°00' | |
| 77.51' W | 5 | R | | | 90°00' | |
| | 6 | | | | 90°00' | |
| | 7 | | 6:54 | | 90°00' | |
| | 8 | | | | 90°00' | |
| | 9 | | | | 90°00' | |
| | 10 | | 6:58 | | 90°00' | |
| | 11 | | | | 90°00' | |
| 558+82.29 N | 12 | | | | 90°00' | |
| | 13 | | 6:56 | | 90°00' | |
| | 14 | R | | | 90°00' | |
| | 15 | | | | 90°00' | |
| 558+82.29 N | 16 | | 6:59 | | 90°00' | |
| | 17 | | | | 90°00' | |
| | 18 | | | | 90°00' | |
| | 19 | | 7:01 | | 90°00' | |
| | 20 | R | | | 90°00' | |




Range 558+82.29 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 PG. 92 Job No. 8412 Division No. Profile
Survey of BEACH EROSION STUDIES No. X-Sec.
Survey by E. H. BLANCHARD Notes Date Notes Chkd. Checked Platted
Indexed C. Johnson Date Date Date Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 558+82.29N |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | P1 | Y | | | |
| | P2 | B-W | 7:03 | 90 30 | |
| | 23 | R | | 90 30 | |
| | 24 | Y | | | |
| | P5 | B-W | 7:05 | | |
| | 26 | R | | | |
| | 27 | Y | | | |
| | P8 | B-W | 7:07 | | |

SPANER 558+82.29 N

558+82.29 N to B.S. 55'

558+82.29 N

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

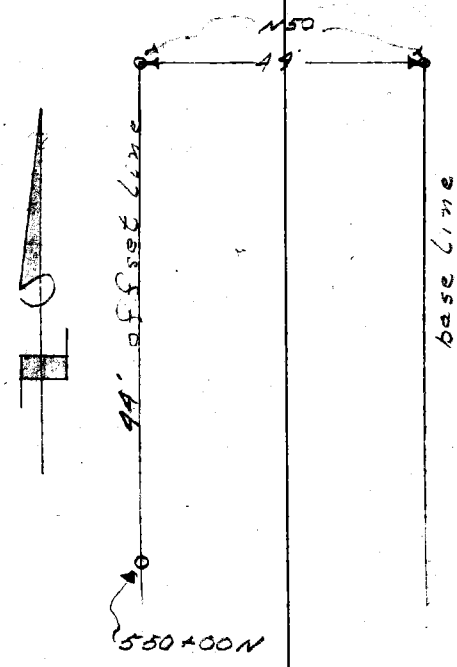
**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red ___ Plotted ___ Job No. 2446 Division No. ___ F.B. 1502 Pg. 23
No. ___ Date ___ Date ___ Survey of ___
X-Sec. Notes Chkd ___ Checked ___ Survey by ___ KK Date 12-11-53
No. ___ Date ___ Date ___ Map No. ___ Radio Job No. ___ Date ___

Cut-in 558+82.29

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Rt / Left / Sight / On | # | Color | Time | Hor. Ang. | |
| | 1 | G+W | 6 45 | 64° 37' | |
| | 2 | R | | 64° 08' | |
| | 3 | Y | | 62° 23' | |
| 44' offset | 4 | B+W | 6 47 | 61 18 | |
| | 5 | R | | 59 56 | |
| | 6 | Y | | 58 25 | |
| | 7 | G+W | 6 51 | 56 53 | |
| | 8 | R | | 55 07 | |
| | 9 | Y | | 53 37 | |
| 44' offset | 10 | B+W | 6 53 | 51 36 | |
| | 11 | R | | 50 50 | |
| | 12 | Y | | 49 52 | |
| | 13 | G+W | 6 56 | 49 18 | |
| | 14 | R | | 48 22 | |
| | 15 | Y | | 46 54 | |
| 550+00 N | 16 | G+W | | 45 02 | |
| N 50 | 17 | R | 59 | 93 52 | |
| | 18 | Y | | 41 50 | |
| | 19 | G+W | 7 01 | 39 32 | |
| | 20 | R | | 36 17 | |



76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

(2)

Do not extend notes this side of this line.

F.B. 1507 Pg. 99 | Job No. 2412 | Division No. | Profile | Notes Red. | Plotted | No. | X-Sec.
Survey of 32nd St. E/Alson & Soto Studios | Date | Date | No.
Survey by K. C. Johnson | Notes KK | Notes Chkd. | Checked
Indexed | Notes | Date | Date | Date

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | 35 59 | | |
| | 22 | B+W | 703 | 3[illegible]33 | | |
| | 23 | R | | 2[illegible]29 | | |
| | 24 | Y | | 2544 | | |
| | 25 | B+W | 05 | 2[illegible]35 | | |
| | 26 | R | | 2125 | | |
| | 27 | Y | | 1408 | | |
| | 28 | B+W | [illegible] | 12[illegible]8 | | |
| Cut-in 3-3-8 x 82 12-N | | | | | | |

76L296 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Rod. CEM Plotted Job No. 5387 F.B. 1507 Pg.
No. Date 1/18/54 Date Survey of E. H. BLANCHARD, JR. Div. No.
B.M. Notes Checked Date Survey by Date
No. Date 1-21-54 Map No. Checked Date

STATION: Boat 558+82.29N

| # | Color | B. S. | H. I. | F. S. | Elev. | Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | B&W | 6:45 | 29.0 / 28.0 | 28.3 | 3.0 | 25.3 | 2230 | |
| 2 | R | | 28.8 / 27.8 | 28.1 | 3.0 | 25.1 | 2165 | |
| 3 | Y | | 27.4 / 26.9 | 26.4 | 3.1 | 23.3 | 1981 | |
| 4 | B&W | 6:48 | 27.2 / 25.8 | 26.3 | 3.1 | 23.2 | 1885 | |
| 5 | R | | 26.1 / 24.8 | 25.2 | 3.1 | 22.1 | 1765 | |
| 6 | Y | | 26.1 / 24.8 | 25.2 | 3.1 | 22.1 | 1652 | |
| 7 | B&W | 6:51 | 24.7 / 23.3 | 23.8 | 3.1 | 20.7 | 1549 | |
| 8 | R | | 23.1 / 22.1 | 22.4 | 3.1 | 19.3 | 1440 | |
| 9 | Y | | 23.4 / 22.0 | 22.5 | 3.1 | 19.4 | 1359 | |
| 10 | B&W | 6:53 | 20.4 / 19.5 | 19.8 | 3.1 | 16.7 | 1250 | |
| 11 | R | | 19.3 / 18.0 | 18.4 | 3.1 | 15.3 | 1219 | |
| 12 | Y | | 19.8 / 18.2 | 18.7 | 3.1 | 15.6 | 1175 | |
| 13 | B&W | 6:56 | 19.8 / 18.8 | 19.1 | 3.1 | 16.0 | 1150 | Rocky Bottom |
| 14 | R | | 20.1 / 18.8 | 19.2 | 3.1 | 16.1 | 1110 | |
| 15 | Y | | 17.1 / 16.0 | 16.4 | 3.1 | 13.3 | 1052 | |
| 16 | B&W | 6:59 | 16.7 / 15.4 | 15.8 | 3.1 | 12.7 | 986 | |
| 17 | R | | 15.4 / 14.2 | 14.6 | 3.1 | 11.5 | 943 | |
| 18 | Y | | 15.4 / 14.0 | 14.5 | 3.1 | 11.4 | 880 | |
| 19 | B&W | 7:01 | 15.3 / 13.8 | 14.3 | 3.2 | 11.1 | 809 | |
| 20 | R | | 15.0 / 13.8 | 14.2 | 3.2 | 11.0 | 720 | |

Boat 558+82.29N

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1507 Pg. 96 | Job No. 8212 Division No. | Notes Red. CEM Plotted | Profile
Survey of 8212 5235 5236 5237 5238 5239 5240 5241 5242 5243 5244 5245 5246 5247 5248 5249 5250 5251 5252 5253 5254 5255 5256 5257 5258 5259 5260 5261 5262 5263 5264 5265 5266 5267 5268 5269 5270 5271 5272 5273 5274 5275 5276 5277 5278 5279 5280 5281 5282 5283 5284 5285 5286 5287 5288 5289 5290 5291 5292 5293 5294 5295 5296 5297 5298 5299 5300 5301 5302 5303 5304 5305 5306 5307 5308 5309 5310 5311 5312 5313 5314 5315 5316 5317 5318 5319 5320 5321 5322 5323 5324 5325 5326 5327 5328 5329 5330 5331 5332 5333 5334 5335 5336 5337 5338 5339 5340 5341 5342 5343 5344 5345 5346 5347 5348 5349 5350 5351 5352 5353 5354 5355 5356 5357 5358 5359 5360 5361 5362 5363 5364 5365 5366 5367 5368 5369 5370 5371 5372 5373 5374 5375 5376 5377 5378 5379 5380 5381 5382 5383 5384 5385 5386 5387 5388 5389 5390 5391 5392 5393 5394 5395 5396 5397 5398 5399 5400 5401 5402 5403 5404 5405 5406 5407 5408 5409 5410 5411 5412 5413 5414 5415 5416 5417 5418 5419 5420 5421 5422 5423 5424 5425 5426 5427 5428 5429 5430 5431 5432 5433 5434 5435 5436 5437 5438 5439 5440 5441 5442 5443 5444 5445 5446 5447 5448 5449 5450 5451 5452 5453 5454 5455 5456 5457 5458 5459 5460 5461 5462 5463 5464 5465 5466 5467 5468 5469 5470 5471 5472 5473 5474 5475 5476 5477 5478 5479 5480 5481 5482 5483 5484 5485 5486 5487 5488 5489 5490 5491 5492 5493 5494 5495 5496 5497 5498 5499 5500 5501 5502 5503 5504 5505 5506 5507 5508 5509 5510 5511 5512 5513 5514 5515 5516 5517 5518 5519 5520 5521 5522 5523 5524 5525 5526 5527 5528 5529 5530 5531 5532 5533 5534 5535 5536 5537 5538 5539 5540 5541 5542 5543 5544 5545 5546 5547 5548 5549 5550 5551 5552 5553 5554 5555 5556 5557 5558 5559 5560 5561 5562 5563 5564 5565 5566 5567 5568 5569 5570 5571 5572 5573 5574 5575 5576 5577 5578 5579 5580 5581 5582 5583 5584 5585 5586 5587 5588 5589 5590 5591 5592 5593 5594 5595 5596 5597 5598 5599 5600 5601 5602 5603 5604 5605 5606 5607 5608 5609 5610 5611 5612 5613 5614 5615 5616 5617 5618 5619 5620 5621 5622 5623 5624 5625 5626 5627 5628 5629 5630 5631 5632 5633 5634 5635 5636 5637 5638 5639 5640 5641 5642 5643 5644 5645 5646 5647 5648 5649 5650 5651 5652 5653 5654 5655 5656 5657 5658 5659 5660 5661 5662 5663 5664 5665 5666 5667 5668 5669 5670 5671 5672 5673 5674 5675 5676 5677 5678 5679 5680 5681 5682 5683 5684 5685 5686 5687 5688 5689 5690 5691 5692 5693 5694 5695 5696 5697 5698 5699 5700 5701 5702 5703 5704 5705 5706 5707 5708 5709 5710 5711 5712 5713 5714 5715 5716 5717 5718 5719 5720 5721 5722 5723 5724 5725 5726 5727 5728 5729 5730 5731 5732 5733 5734 5735 5736 5737 5738 5739 5740 5741 5742 5743 5744 5745 5746 5747 5748 5749 5750 5751 5752 5753 5754 5755 5756 5757 5758 5759 5760 5761 5762 5763 5764 5765 5766 5767 5768 5769 5770 5771 5772 5773 5774 5775 5776 5777 5778 5779 5780 5781 5782 5783 5784 5785 5786 5787 5788 5789 5790 5791 5792 5793 5794 5795 5796 5797 5798 5799 5800 5801 5802 5803 5804 5805 5806 5807 5808 5809 5810 5811 5812 5813 5814 5815 5816 5817 5818 5819 5820 5821 5822 5823 5824 5825 5826 5827 5828 5829 5830 5831 5832 5833 5834 5835 5836 5837 5838 5839 5840 5841 5842 5843 5844 5845 5846 5847 5848 5849 5850 5851 5852 5853 5854 5855 5856 5857 5858 5859 5860 5861 5862 5863 5864 5865 5866 5867 5868 5869 5870 5871 5872 5873 5874 5875 5876 5877 5878 5879 5880 5881 5882 5883 5884 5885 5886 5887 5888 5889 5890 5891 5892 5893 5894 5895 5896 5897 5898 5899 5900 5901 5902 5903 5904 5905 5906 5907 5908 5909 5910 5911 5912 5913 5914 5915 5916 5917 5918 5919 5920 5921 5922 5923 5924 5925 5926 5927 5928 5929 5930 5931 5932 5933 5934 5935 5936 5937 5938 5939 5940 5941 5942 5943 5944 5945 5946 5947 5948 5949 5950 5951 5952 5953 5954 5955 5956 5957 5958 5959 5960 5961 5962 5963 5964 5965 5966 5967 5968 5969 5970 5971 5972 5973 5974 5975 5976 5977 5978 5979 5980 5981 5982 5983 5984 5985 5986 5987 5988 5989 5990 5991 5992 5993 5994 5995 5996 5997 5998 5999 6000 6001 6002 6003 6004 6005 6006 6007 6008 6009 6010 6011 6012 6013 6014 6015 6016 6017 6018 6019 6020 6021 6022 6023 6024 6025 6026 6027 6028 6029 6030 6031 6032 6033 6034 6035 6036 6037 6038 6039 6040 6041 6042 6043 6044 6045 6046 6047 6048 6049 6050 6051 6052 6053 6054 6055 6056 6057 6058 6059 6060 6061 6062 6063 6064 6065 6066 6067 6068 6069 6070 6071 6072 6073 6074 6075 6076 6077 6078 6079 6080 6081 6082 6083 6084 6085 6086 6087 6088 6089 6090 6091 6092 6093 6094 6095 6096 6097 6098 6099 6100 6101 6102 6103 6104 6105 6106 6107 6108 6109 6110 6111 6112 6113 6114 6115 6116 6117 6118 6119 6120 6121 6122 6123 6124 6125 6126 6127 6128 6129 6130 6131 6132 6133 6134 6135 6136 6137 6138 6139 6140 6141 6142 6143 6144 6145 6146 6147 6148 6149 6150 6151 6152 6153 6154 6155 6156 6157 6158 6159 6160 6161 6162 6163 6164 6165 6166 6167 6168 6169 6170 6171 6172 6173 6174 6175 6176 6177 6178 6179 6180 6181 6182 6183 6184 6185 6186 6187 6188 6189 6190 6191 6192 6193 6194 6195 6196 6197 6198 6199 6200 6201 6202 6203 6204 6205 6206 6207 6208 6209 6210 6211 6212 6213 6214 6215 6216 6217 6218 6219 6220 6221 6222 6223 6224 6225 6226 6227 6228 6229 6230 6231 6232 6233 6234 6235 6236 6237 6238 6239 6240 6241 6242 6243 6244 6245 6246 6247 6248 6249 6250 6251 6252 6253 6254 6255 6256 6257 6258 6259 6260 6261 6262 6263 6264 6265 6266 6267 6268 6269 6270 6271 6272 6273 6274 6275 6276 6277 6278 6279 6280 6281 6282 6283 6284 6285 6286 6287 6288 6289 6290 6291 6292 6293 6294 6295 6296 6297 6298 6299 6300 6301 6302 6303 6304 6305 6306 6307 6308 6309 6310 6311 6312 6313 6314 6315 6316 6317 6318 6319 6320 6321 6322 6323 6324 6325 6326 6327 6328 6329 6330 6331 6332 6333 6334 6335 6336 6337 6338 6339 6340 6341 6342 6343 6344 6345 6346 6347 6348 6349 6350 6351 6352 6353 6354 6355 6356 6357 6358 6359 6360 6361 6362 6363 6364 6365 6366 6367 6368 6369 6370 6371 6372 6373 6374 6375 6376 6377 6378 6379 6380 6381 6382 6383 6384 6385 6386 6387 6388 6389 6390 6391 6392 6393 6394 6395 6396 6397 6398 6399 6400 6401 6402 6403 6404 6405 6406 6407 6408 6409 6410 6411 6412 6413 6414 6415 6416 6417 6418 6419 6420 6421 6422 6423 6424 6425 6426 6427 6428 6429 6430 6431 6432 6433 6434 6435 6436 6437 6438 6439 6440 6441 6442 6443 6444 6445 6446 6447 6448 6449 6450 6451 6452 6453 6454 6455 6456 6457 6458 6459 6460 6461 6462 6463 6464 6465 6466 6467 6468 6469 6470 6471 6472 6473 6474 6475 6476 6477 6478 6479 6480 6481 6482 6483 6484 6485 6486 6487 6488 6489 6490 6491 6492 6493 6494 6495 6496 6497 6498 6499 6500 6501 6502 6503 6504 6505 6506 6507 6508 6509 6510 6511 6512 6513 6514 6515 6516 6517 6518 6519 6520 6521 6522 6523 6524 6525 6526 6527 6528 6529 6530 6531 6532 6533 6534 6535 6536 6537 6538 6539 6540 6541 6542 6543 6544 6545 6546 6547 6548 6549 6550 6551 6552 6553 6554 6555 6556 6557 6558 6559 6560 6561 6562 6563 6564 6565 6566 6567 6568 6569 6570 6571 6572 6573 6574 6575 6576 6577 6578 6579 6580 6581 6582 6583 6584 6585 6586 6587 6588 6589 6590 6591 6592 6593 6594 6595 6596 6597 6598 6599 6600 6601 6602 6603 6604 6605 6606 6607 6608 6609 6610 6611 6612 6613 6614 6615 6616 6617 6618 6619 6620 6621 6622 6623 6624 6625 6626 6627 6628 6629 6630 6631 6632 6633 6634 6635 6636 6637 6638 6639 6640 6641 6642 6643 6644 6645 6646 6647 6648 6649 6650 6651 6652 6653 6654 6655 6656 6657 6658 6659 6660 6661 6662 6663 6664 6665 6666 6667 6668 6669 6670 6671 6672 6673 6674 6675 6676 6677 6678 6679 6680 6681 6682 6683 6684 6685 6686 6687 6688 6689 6690 6691 6692 6693 6694 6695 6696 6697 6698 6699 6700 6701 6702 6703 6704 6705 6706 6707 6708 6709 6710 6711 6712 6713 6714 6715 6716 6717 6718 6719 6720 6721 6722 6723 6724 6725 6726 6727 6728 6729 6730 6731 6732 6733 6734 6735 6736 6737 6738 6739 6740 6741 6742 6743 6744 6745 6746 6747 6748 6749 6750 6751 6752 6753 6754 6755 6756 6757 6758 6759 6760 6761 6762 6763 6764 6765 6766 6767 6768 6769 6770 6771 6772 6773 6774 6775 6776 6777 6778 6779 6780 6781 6782 6783 6784 6785 6786 6787 6788 6789 6790 6791 6792 6793 6794 6795 6796 6797 6798 6799 6800 6801 6802 6803 6804 6805 6806 6807 6808 6809 6810 6811 6812 6813 6814 6815 6816 6817 6818 6819 6820 6821 6822 6823 6824 6825 6826 6827 6828 6829 6830 6831 6832 6833 6834 6835 6836 6837 6838 6839 6840 6841 6842 6843 6844 6845 6846 6847 6848 6849 6850 6851 6852 6853 6854 6855 6856 6857 6858 6859 6860 6861 6862 6863 6864 6865 6866 6867 6868 6869 6870 6871 6872 6873 6874 6875 6876 6877 6878 6879 6880 6881 6882 6883 6884 6885 6886 6887 6888 6889 6890 6891 6892 6893 6894 6895 6896 6897 6898 6899 6900 6901 6902 6903 6904 6905 6906 6907 6908 6909 6910 6911 6912 6913 6914 6915 6916 6917 6918 6919 6920 6921 6922 6923 6924 6925 6926 6927 6928 6929 6930 6931 6932 6933 6934 6935 6936 6937 6938 6939 6940 6941 6942 6943 6944 6945 6946 6947 6948 6949 6950 6951 6952 6953 6954 6955 6956 6957 6958 6959 6960 6961 6962 6963 6964 6965 6966 6967 6968 6969 6970 6971 6972 6973 6974 6975 6976 6977 6978 6979 6980 6981 6982 6983 6984 6985 6986 6987 6988 6989 6990 6991 6992 6993 6994 6995 6996 6997 6998 6999 7000 7001 7002 7003 7004 7005 7006 7007 7008 7009 7010 7011 7012 7013 7014 7015 7016 7017 7018 7019 7020 7021 7022 7023 7024 7025 7026 7027 7028 7029 7030 7031 7032 7033 7034 7035 7036 7037 7038 7039 7040 7041 7042 7043 7044 7045 7046 7047 7048 7049 7050 7051 7052 7053 7054 7055 7056 7057 7058 7059 7060 7061 7062 7063 7064 7065 7066 7067 7068 7069 7070 7071 7072 7073 7074 7075 7076 7077 7078 7079 7080 7081 7082 7083 7084 7085 7086 7087 7088 7089 7090 7091 7092 7093 7094 7095 7096 7097 7098 7099 7100 7101 7102 7103 7104 7105 7106 7107 7108 7109 7110 7111 7112 7113 7114 7115 7116 7117 7118 7119 7120 7121 7122 7123 7124 7125 7126 7127 7128 7129 7130 7131 7132 7133 7134 7135 7136 7137 7138 7139 7140 7141 7142 7143 7144 7145 7146 7147 7148 7149 7150 7151 7152 7153 7154 7155 7156 7157 7158 7159 7160 7161 7162 7163 7164 7165 7166 7167 7168 7169 7170 7171 7172 7173 7174 7175 7176 7177 7178 7179 7180 7181 7182 7183 7184 7185 7186 7187 7188 7189 7190 7191 7192 7193 7194 7195 7196 7197 7198 7199 7200 7201 7202 7203 7204 7205 7206 7207 7208 7209 7210 7211 7212 7213 7214 7215 7216 7217 7218 7219 7220 7221 7222 7223 7224 7225 7226 7227 7228 7229 7230 7231 7232 7233 7234 7235 7236 7237 7238 7239 7240 7241 7242 7243 7244 7245 7246 7247 7248 7249 7250 7251 7252 7253 7254 7255 7256 7257 7258 7259 7260 7261 7262 7263 7264 7265 7266 7267 7268 7269 7270 7271 7272 7273 7274 7275 7276 7277 7278 7279 7280 7281 7282 7283 7284 7285 7286 7287 7288 7289 7290 7291 7292 7293 7294 7295 7296 7297 7298 7299 7300 7301 7302 7303 7304 7305 7306 7307 7308 7309 7310 7311 7312 7313 7314 7315 7316 7317 7318 7319 7320 7321 7322 7323 7324 7325 7326 7327 7328 7329 7330 7331 7332 7333 7334 7335 7336 7337 7338 7339 7340 7341 7342 7343 7344 7345 7346 7347 7348 7349 7350 7351 7352 7353 7354 7355 7356 7357 7358 7359 7360 7361 7362 7363 7364 7365 7366 7367 7368 7369 7370 7371 7372 7373 7374 7375 7376 7377 7378 7379 7380 7381 7382 7383 7384 7385 7386 7387 7388 7389 7390 7391 7392 7393 7394 7395 7396 7397 7398 7399 7400 7401 7402 7403 7404 7405 7406 7407 7408 7409 7410 7411 7412 7413 7414 7415 7416 7417 7418 7419 7420 7421 7422 7423 7424 7425 7426 7427 7428 7429 7430 7431 7432 7433 7434 7435 7436 7437 7438 7439 7440 7441 7442 7443 7444 7445 7446 7447 7448 7449 7450 7451 7452 7453 7454 7455 7456 7457 7458 7459 7460 7461 7462 7463 7464 7465 7466 7467 7468 7469 7470 7471 7472 7473 7474 7475 7476 7477 7478 7479 7480 7481 7482 7483 7484 7485 7486 7487 7488 7489 7490 7491 7492 7493 7494 7495 7496 7497 7498 7499 7500 7501 7502 7503 7504 7505 7506 7507 7508 7509 7510 7511 7512 7513 7514 7515 7516 7517 7518 7519 7520 7521 7522 7523 7524 7525 7526 7527 7528 7529 7530 7531 7532 7533 7534 7535 7536 7537 7538 7539 7540 7541 7542 7543 7544 7545 7546 7547 7548 7549 7550 7551 7552 7553 7554 7555 7556 7557 7558 7559 7560 7561 7562 7563 7564 7565 7566 7567 7568 7569 7570 7571 7572 7573 7574 7575 7576 7577 7578 7579 7580 7581 7582 7583 7584 7585 7586 7587 7588 7589 7590 7591 7592 7593 7594 7595 7596 7597 7598 7599 7600 7601 7602 7603 7604 7605 7606 7607 7608 7609 7610 7611 7612 7613 7614 7615 7616 7617 7618 7619 7620 7621 7622 7623 7624 7625 7626 7627 7628 7629 7630 7631 7632 7633 7634 7635 7636 7637 7638 7639 7640 7641 7642 7643 7644 7645 7646 7647 7648 7649 7650 7651 7652 7653 7654 7655 7656 7657 7658 7659 7660 7661 7662 7663 7664 7665 7666 7667 7668 7669 7670 7671 7672 7673 7674 7675 7676 7677 7678 7679 7680 7681 7682 7683 7684 7685 7686 7687 7688 7689 7690 7691 7692 7693 7694 7695 7696 7697 7698 7699 7700 7701 7702 7703 7704 7705 7706 7707 7708 7709 7710 7711 7712 7713 7714 7715 7716 7717 7718 7719 7720 7721 7722 7723 7724 7725 7726 7727 7728 7729 7730 7731 7732 7733 7734 7735 7736 7737 7738 7739 7740 7741 7742 7743 7744 7745 7746 7747 7748 7749 7750 7751 7752 7753 7754 7755 7756 7757 7758 7759 7760 7761 7762 7763 7764 7765 7766 7767 7768 7769 7770 7771 7772 7773 7774 7775 7776 7777 7778 7779 7780 7781 7782 7783 7784 7785 7786 7787 7788 7789 7790 7791 7792 7793 7794 7795 7796 7797 7798 7799 7800 7801 7802 7803 7804 7805 7806 7807 7808 7809 7810 7811 7812 7813 7814 7815 7816 7817 7818 7819 7820 7821 7822 7823 7824 7825 7826 7827 7828 7829 7830 7831 7832 7833 7834 7835 7836 7837 7838 7839 7840 7841 7842 7843 7844 7845 7846 7847 7848 7849 7850 7851 7852 7853 7854 7855 7856 7857 7858 7859 7860 7861 7862 7863 7864 7865 7866 7867 7868 7869 7870 7871 7872 7873 7874 7875 7876 7877 7878 7879 7880 7881 7882 7883 7884 7885 7886 7887 7888 7889 7890 7891 7892 7893 7894 7895 7896 7897 7898 7899 7900 7901 7902 7903 7904 7905 7906 7907 7908 7909 7910 7911 7912 7913 7914 7915 7916 7917 7918 7919 7920 7921 7922 7923 7924 7925 7926 7927 7928 7929 7930 7931 7932 7933 7934 7935 7936 7937 7938 7939 7940 7941 7942 7943 7944 7945 7946 7947 7948 7949 7950 7951 7952 7953 7954 7955 7956 7957 7958 7959 7960 7961 7962 7963 7964 7965 7966 7967 7968 7969 7970 7971 7972 7973 7974 7975 7976 7977 7978 7979 7980 7981 7982 7983 7984 7985 7986 7987 7988 7989 7990 7991 7992 7993 7994 7995 7996 7997 7998 7999 8000 8001 8002 8003 8004 8005 8006 8007 8008 8009 8010 8011 8012 8013 8014 8015 8016 8017 8018 8019 8020 8021 8022 8023 8024 8025 8026 8027 8028 8029 8030 8031 8032 8033 8034 8035 8036 8037 8038 8039 8040 8041 8042 8043 8044 8045 8046 8047 8048 8049 8050 8051 8052 8053 8054 8055 8056 8057 8058 8059 8060 8061 8062 8063 8064 8065 8066 8067 8068 8069 8070 8071 8072 8073 8074 8075 8076 8077 8078 8079 8080 8081 8082 8083 8084 8085 8086 8087 8088 8089 8090 8091 8092 8093 8094 8095 8096 8097 8098 8099 8100 8101 8102 8103 8104 8105 8106 8107 8108 8109 8110 8111 8112 8113 8114 8115 8116 8117 8118 8119 8120 8121 8122 8123 8124 8125 8126 8127 8128 8129 8130 8131 8132 8133 8134 8135 8136 8137 8138 8139 8140 8141 8142 8143 8144 8145 8146 8147 8148 8149 8150 8151 8152 8153 8154 8155 8156 8157 8158 8159 8160 8161 8162 8163 8164 8165 8166 8167 8168 8169 8170 8171 8172 8173 8174 8175 8176 8177 8178 8179 8180 8181 8182 8183 8184 8185 8186 8187 8188 8189 8190 8191 8192 8193 8194 8195 8196 8197 8198 8199 8200 8201 8202 8203 8204 8205 8206 8207 8208 8209 8210 8211 8212 8213 8214 8215 8216 8217 8218 8219 8220 8221 8222 8223 8224 8225 8226 8227 8228 8229 8230 8231 8232 8233 8234 8235 8236 8237 8238 8239 8240 8241 8242 8243 8244 8245 8246 8247 8248 8249 8250 8251 8252 8253 8254 8255 8256 8257 8258 8259 8260 8261 8262 8263 8264 8265 8266 8267 8268 8269 8270 8271 8272 8273 8274 8275 8276 8277 8278 8279 8280 8281 8282 8283 8284 8285 8286 8287 8288 8289 8290 8291 8292 8293 8294 8295 8296 8297 8298 8299 8300 8301 8302 8303 8304 8305 8306 8307 8308 8309 8310 8311 8312 8313 8314 8315 8316 8317 8318 8319 8320 8321 8322 8323 8324 8325 8326 8327 8328 8329 8330 8331 8332 8333 8334 8335 8336 8337 8338 8339 8340 8341 8342 8343 8344 8345 8346 8347 8348 8349 8350 8351 8352 8353 8354 8355 8356 8357 8358 8359 8360 8361 8362 8363 8364 8365 8366 8367 8368 8369 8370 8371 8372 8373 8374 8375 8376 8377 8378 8379 8380 8381 8382 8383 8384 8385 8386 8387 8388 8389 8390 8391 8392 8393 8394 8395 8396 8397 8398 8399 8400 8401 8402 8403 8404 8405 8406 8407 8408 8409 8410 8411 8412 8413 8414 8415 8416 8417 8418 8419 8420 8421 8422 8423 8424 8425 8426 8427 8428 8429 8430 8431 8432 8433 8434 8435 8436 8437 8438 8439 8440 8441 8442 8443 8444 8445 8446 8447 8448 8449 8450 8451 8452 8453 8454 8455 8456 8457 8458 8459 8460 8461 8462 8463 8464 8465 8466 8467 8468 8469 8470 8471 8472 8473 8474 8475 8476 8477 8478 8479 8480 8481 8482 8483 8484 8485 8486 8487 8488 8489 8490 8491 8492 8493 8494 8495 8496 8497 8498 8499 8500 8501 8502 8503 8504 8505 8506 8507 8508 8509 8510 8511 8512 8513 8514 8515 8516 8517 8518 8519 8520 8521 8522 8523 8524 8525 8526 8527 8528 8529 8530 8531 8532 8533 8534 8535 8536 8537 8538 8539 8540 8541 8542 8543 8544 8545 8546 8547 8548 8549 8550 8551 8552 8553 8554 8555 8556 8557 8558 8559 8560 8561 8562 8563 8564 8565 8566 8567 8568 8569 8570 8571 8572 8573 8574 8575 8576 8577 8578 8579 8580 8581 8582 8583 8584 8585 8586 8587 8588 8589 8590 8591 8592 8593 8594 8595 8596 8597 8598 8599 8600 8601 8602 8603 8604 8605 8606 8607 8608 8609 8610 8611 8612 8613 8614 8615 8616 8617 8618 8619 8620 8621 8622 8623 8624 8625 8626 8627 8628 8629 8630 8631 8632 8633 8634 8635 8636 8637 8638 8639 8640 8641 8642 8643 8644 8645 8646 8647 8648 8649 8650 8651 8652 8653 8654 8655 8656 8657 8658 8659 8660 8661 8662 8663 8664 8665 8666 8667 8668 8669 8670 8671 8672 8673 8674 8675 8676 8677 8678 8679 8680 8681 8682 8683 8684 8685 8686 8687 8688 8689 8690 8691 8692 8693 8694 8695 8696 8697 8698 8699 8700 8701 8702 8703 8704 8705 8706 8707 8708 8709 8710 8711 8712 8713 8714 8715 8716 8717 8718 8719 8720 8721 8722 8723 8724 8725 8726 8727 8728 8729 8730 8731 8732 8733 8734 8735 8736 8737 8738 8739 8740 8741 8742 8743 8744 8745 8746 8747 8748 8749 8750 8751 8752 8753 8754 8755 8756 8757 8758 8759 8760 8761 8762 8763 8764 8765 8766 8767 8768 8769 8770 8771 8772 8773 8774 8775 8776 8777 8778 8779 8780 8781 8782 8783 8784 8785 8786 8787 8788 8789 8790 8791 8792 8793 8794 8795 8796 8797 8798 8799 8800 8801 8802 8803 8804 8805 8806 8807 8808 8809 8810 8811 8812 8813 8814 8815 8816 8817 8818 8819 8820 8821 8822 8823 8824 8825 8826 8827 8828 8829 8830 8831 8832 8833 8834 8835 8836 8837 8838 8839 8840 8841 8842 8843 8844 8845 8846 8847 8848 8849 8850 8851 8852 8853 8854 8855 8856 8857 8858 8859 8860 8861 8862 8863 8864 8865 8866 8867 8868 8869 8870 8871 8872 8873 8874 8875 8876 8877 8878 8879 8880 8881 8882 8883 8884 8885 8886 8887 8888 8889 8890 8891 8892 8893 8894 8895 8896 8897 8898 8899 8900 8901 8902 8903 8904 8905 8906 8907 8908 8909 8910 8911 8912 8913 8914 8915 8916 8917 8918 8919 8920 8921 8922 8923 8924 8925 8926 8927 8928 8929 8930 8931 8932 8933 8934 8935 8936 8937 8938 8939 8940 8941 8942 8943 8944 8945 8946 8947 8948 8949 8950 8951 8952 8953 8954 8955 8956 8957 8958 8959 8960 8961 8962 8963 8964 8965 8966 8967 8968 8969 8970 8971 8972 8973 8974 8975 8976 8977 8978 8979 8980 8981 8982 8983 8984 8985 8986 8987 8988 8989 8990 8991 8992 8993 8994 8995 8996 8997 8998 8999 9000 9001 9002 9003 9004 9005 9006 9007 9008 9009 9010 9011 9012 9013 9014 9015 9016 9017 9018 9019 9020 9021 9022 9023 9024 9025 9026 9027 9028 9029 9030 9031 9032 9033 9034 9035 9036 9037 9038 9039 9040 9041 9042 9043 9044 9045 9046 9047 9048 9049 9050 9051 9052 9053 9054 9055 9056 9057 9058 9059 9060 9061 9062 9063 9064 9065 9066 9067 9068 9069 9070 9071 9072 9073 9074 9075 9076 9077 9078 9079 9080 9081 9082 9083 9084 9085 9086 9087 9088 9089 9090 9091 9092 9093 9094 9095 9096 9097 9098 9099 9100 9101 9102 9103 9104 9105 9106 9107 9108 9109 9110 9111 9112 9113 9114 9115 9116 9117 9118 9119 9120 9121 9122 9123 9124 9125 9126 9127 9128 9129 9130 9131 9132 9133 9134 9135 9136 9137 9138 9139 9140 9141 9142 9143 9144 9145 9146 9147 9148 9149 9150 9151 9152 9153 9154 9155 9156 9157 9158 9159 9160 9161 9162 9163 9164 9165 9166 9167 9168 9169 9170 9171 9172 9173 9174 9175 9176 9177 9178 9179 9180 9181 9182 9183 9184 9185 9186 9187 9188 9189 9190 9191 9192 9193 9194 9195 9196 9197 9198 9199 9200 9201 9202 9203 9204 9205 9206 9207 9208 9209 9210 9211 9212 9213 9214 9215 9216 9217 9218 9219 9220 9221 9222 9223 9224 9225 9226 9227 9228 9229 9230 9231 9232 9233 9234 9235 9236 9237 9238 9239 9240 9241 9242 9243 9244 9245 9246 9247 9248 9249 9250 9251 9252 9253 9254 9255 9256 9257 9258 9259 9260 9261 9262 9263 9264 9265 9266 9267 9268 9269 9270 9271 9272 9273 9274 9275 9276 9277 9278 9279 9280 9281 9282 9283 9284 9285 9286 9287 9288 9289 9290 9291 9292 9293 9294 9295 9296 9297 9298 9299 9300 9301 9302 9303 9304 9305 9306 9307 9308 9309 9310 9311 9312 9313 9314 9315 9316 9317 9318 9319 9320 9321 9322 9323 9324 9325 9326 9327 9328 9329 9330 9331 9332 9333 9334 9335 9336 9337 9338 9339 9340 9341 9342 9343 9344 9345 9346 9347 9348 9349 9350 9351 9352 9353 9354 9355 9356 9357 9358 9359 9360 9361 9362 9363 9364 9365 9366 9367 9368 9369 9370 9371 9372 9373 9374 9375 9376 9377 9378 9379 9380 9381 9382 9383 9384 9385 9386 9387 9388 9389 9390 9391 9392 9393 9394 9395 9396 9397 9398 9399 9400 9401 9402 9403 9404 9405 9406 9407 9408 9409 9410 9411 9412 9413 9414 9415 9416 9417 9418 9419 9420 9421 9422 9423 9424 9425 9426 9427 9428 9429 9430 9431 9432 9433 9434 9435 9436 9437 9438 9439 9440 9441 9442 9443 9444 9445 9446 9447 9448 9449 9450 9451 9452 9453 9454 9455 9456 9457 9458 9459 9460 9461 9462 9463 9464 9465 9466 9467 9468 9469 9470 9471 9472 9473 9474 9475 9476 9477 9478 9479 9480 9481 9482 9483 9484 9485 9486 9487 9488 9489 9490 9491 9492 9493 9494 9495 9496 9497 9498 9499 9500 9501 9502 9503 9504 9505 9506 9507 9508 9509 9510 9511 9512 9513 9514 9515 9516 9517 9518 9519 9520 9521 9522 9523 9524 9525 9526 9527 9528 9529 9530 9531 9532 9533 9534 9535 9536 9537 9538 9539 9540 9541 9542 9543 9544 9545 9546 9547 9548 9549 9550 9551 9552 9553 9554 9555 9556 9557 9558 9559 9560 9561 9562 9563 9564 9565 9566 9567 9568 9569 9570 9571 9572 9573 9574 9575 9576 9577 9578 9579 9580 9581 9582 9583 9584 9585 9586 9587 9588 9589 9590 9591 9592 9593 9594 9595 9596 9597 9598 9599 9600 9601 9602 9603 9604 9605 9606 9607 9608 9609 9610 9611 9612 9613 9614 9615 9616 9617 9618 9619 9620 9621 9622 9623 9624 9625 9626 9627 9628 9629 9630 9631 9632 9633 9634 9635 9636 9637 9638 9639 9640 9641 9642 9643 9644 9645 9646 9647 9648 9649 9650 9651 9652 9653 9654 9655 9656 9657 9658 9659 9660 9661 9662 9663 9664 9665 9666 9667 9668 9669 9670 9671 9672 9673 9674 9675 9676 9677 9678 9679 9680 9681 9682 9683 9684 9685 9686 9687 9688 9689 9690 9691 9692 9693 9694 9695 9696 9697 9698 9699 9700 9701 9702 9703 9704 9705 9706 9707 9708 9709 9710 9711 9712 9713 9714 9715 9716 9717 9718 9719 9720 9721 9722 9723 9724 9725 9726 9727 9728 9729 9730 9731 9732 9733 9734 9735 9736 9737 9738 9739 9740 9741 9742 9743 9744 9745 9746 9747 9748 9749 9750 9751 9752 9753 9754 9755 9756 9757 9758 9759 9760 9761 9762 9763 9764 9765 9766 9767 9768 9769 9770 9771 9772 9773 9774 9775 9776 9777 9778 9779 9780 9781 9782 9783 9784 9785 9786 9787 9788 9789 9790 9791 9792 9793 9794 9795 9796 9797 9798 9799 9800 9801 9802 9803 9804 9805 9806 9807 9808 9809 9810 9811 9812 9813 9814 9815 9816 9817 9818 9819 9820 9821 9822 9823 9824 9825 9826 9827 9828 9829 9830 9831 9832 9833 9834 9835 9836 9837 9838 9839 9840 9841 9842 9843 9844 9845 9846 9847 9848 9849 9850 9851 9852 9853 9854 9855 9856 9857 9858 9859 9860 9861 9862 9863 9864 9865 9866 9867 9868 9869 9870 9871 9872 9873 9874 9875 9876 9877 9878 9879 9880 9881 9882 9883 9884 9885 9886 9887 9888 9889 9890 9891 9892 9893 9894 9895 9896 9897 9898 9899 9900 9901 9902 9903 9904 9905 9906 9907 9908 9909 9910 9911 9912 9913 9914 9915 9916 9917 9918 9919 9920 9921 9922 9923 9924 9925 9926 9927 9928 9929 9930 9931 9932 9933 9934 9935 9936 9937 9938 9939 9940 9941 9942 9943 9944 9945 9946 9947 9948 9949 9950 9951 9952 9953 9954 9955 9956 9957 9958 9959 9960 9961 9962 9963 9964 9965 9966 9967 9968 9969 9970 9971 9972 9973 9974 9975 9976 9977 9978 9979 9980 9981 9982 9983 9984 9985 9986 9987 9988 9989 9990 9991 9992 9993 9994 9995 9996 9997 9998 9999 10000

Survey by F. H. BLANCHARD Notes AS Notes Chkd. Checked X-Sec.
Indexed [illegible] Date Date Date No.

| STATION | | B. S. | H. I. | F. S. | ELEV. | BOAT | | 558+82.29N |
|---|---|---|---|---|---|---|---|---|
| 21 | Y | | 14.1 | | | | | |
| | | | 13.0 | 13.4 | 3.2 | 10.2 | 638 | |
| 22 | BM | 7.04 | 13.1 | | | | | |
| | | | 12.0 | 12.4 | 3.2 | 9.2 | 580 | |
| 23 | R | | 12.8 | | | | | |
| | | | 11.8 | 12.1 | 3.2 | 8.9 | 534 | |
| 24 | Y | | 11.5 | | | | | |
| | | | 10.5 | 10.8 | 3.2 | 7.6 | 482 | |
| 25 | BM | 7.06 | 12.6 | | | | | |
| | | | 9.9 | 10.1 | 3.2 | 6.9 | 440 | |
| 26 | R | | 9.8 | | | | | |
| | | | 8.6 | 9.0 | 3.2 | 5.8 | 398 | |
| 27 | Y | | 8.0 | | | | | |
| | | | 7.0 | 7.3 | 3.2 | 4.1 | 355 | |
| 28 | BM | 7.08 | 6.8 | | | | | |
| | | | 6.0 | 6.3 | 3.2 | 3.1 | 338 | |

BOAT 558+82.29 N

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 5417 Division No.____ F.B. 1507 Pg. 97

No.____ Date____ Date____ Survey of Ranges 5 & 6 Date 12-11-53

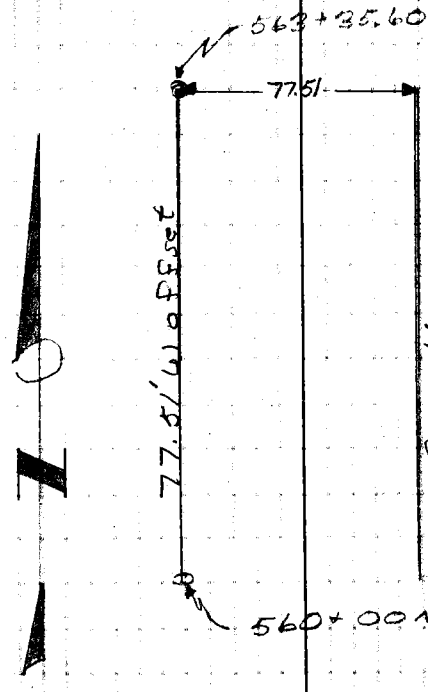
X-Sec. Notes Chkd.____ Checked____ Survey by [illegible] Date____

No.____ Date____ Map No.____ Andrew Johnson Date____

Range 560+00N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight At On | | # Color | Time Hor. Ang. | | |
| | 1 | B+W | 8:40 | 90°00' | |
| | 2 | R | | 90°00' | |
| | 3 | Y | | 90°00' | |
| | 4 | B+W | 8:43 | 90°00' | |
| | 5 | R | | 90°00' | |
| | 6 | Y | | 90°00' | |
| | 7 | B+W | 8:47 | 90°00' | |
| | 8 | R | | 90°00' | |
| | 9 | Y | | 90°00' | |
| | 10 | B+W | 8:50 | 90°00' | |
| | 11 | R | | 90°00' | |
| | 12 | Y | | 90°00' | |
| | 13 | B+W | 8:53 | 90°00' | |
| | 14 | R | | 90°00' | |
| | 15 | Y | | 90°00' | |
| | 16 | B+W | 8:55 | 90°00' | |
| | 17 | R | | 90°00' | |
| | 18 | Y | | 90°00' | |
| | | | | 90°00' | |

77.51 offset
77.51 offset
560+00N
563+35.60




RANGE 560+00 N

F. B. 1507 Pg. 98 | Job No. | Division No. | Notes Red. | Plotted | No. | Profile

Survey of F. H. BLANCHARD | Date | Date | No. | X-Sec.

Survey by | Notes | Notes Chkd. | Checked | No.

Indexed C. Johnson | Date | Date | Date

76L298 307 4-50

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | | Remarks |

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

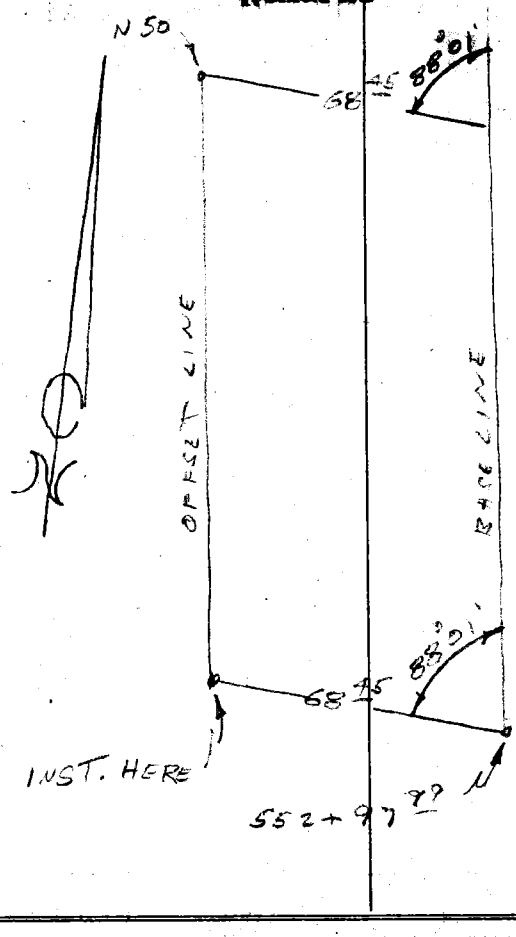
**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

5

Profile Notes Red Plotted Job No. 5412 Division No. F.B. 1587 Pg. 99
No. Date Date Survey of Beach Lines
X-Sec. Notes Chkd Checked Survey by Field KK Date 12-11-53
No. Date Date Map No. Checked Date

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 560+00 N |
|---|---|---|---|---|---|
| Inst. Sight AT ON | # | Color | Time | Hor. Ang. | Remarks |
| | 1 | B&W | 838 | 72° 44 | |
| | 2 | R | | 71° 06 | |
| | 3 | Y | | 69 44 | |
| | 4 | B&W | 841 | 68 21 | |
| | 5 | R | | 66 56 | |
| | 6 | Y | | 64 22 | |
| | 7 | B&W | 845 | 62 07 | |
| | 8 | R | | 59 16 | |
| | 9 | Y | | 55 09 | |
| | 10 | B&W | 848 | 52 12 | |
| | 11 | R | | 49 10 | |
| | 12 | Y | | 45 29 | |
| | 13 | B&W | 851 | 41 22 | |
| | 14 | R | | 36 40 | |
| | 15 | Y | | 32 42 | |
| | 16 | B&W | 853 | 28 35 | |
| | 17 | R | | 24 47 | |
| | 18 | Y | | 21 25 | |
| | 19 | B&W | 855 | | |
| | 20 | R | | | |




552 + 97.99 N 68 45 FORESIGHT
N 50 88 15 BACKSIGHT

CUT-IN 560+00 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1597 PG. 100 Job No. 8412 Division No. Profile
Survey of 1966 Crossing at Studio No. X-Sec.
Survey by F. H. B. GUARD Notes Plotted Date
Indexed C. Johnson Date Notes Chkd. Date Checked Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in 563+35.60 |
|---|---|---|---|---|---|
| Inst. At | Sight On | # Color | Time | Hor. Ang. | Remarks |
| 552+97.99N | N 50 use drawing | 1 BW | | | |
| | | 2 R | | | |
| | | 3 Y | | | |
| | | 4 BW | | | |
| | | 5 R | | | |
| | | 6 Y | | | |
| | | 7 BW | | | |
| | | 8 R | | | |
| | | 9 Y | | | |
| | | 10 BW | | | |
| | | 11 R | | | |
| | | 12 Y | | | |
| | | 13 BW | | | |
| | | 14 R | | | |
| | | 15 Y | | | |
| | | 16 BW | | | |
| | | 17 R | | | |
| | | 18 Y | | | |
| | | 19 BW | | | |
| | | 20 R | | | |

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red CEM Plotted _____ Job No. 8412 Division No. _____ F. B. 1550 Pg. 101
No. _____ Date 1/18/54 Date _____ Survey of Lagoon & Channel
X-Sec. Notes Chkd K K Checked _____ Surveyed By BLANCHARD & Gibson Date 12-11-53
No. _____ Date _____ Map No. _____ Traced Johnson Date _____

Boat 560+00 N

| STATION # | Color | Time | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | B&W | 8 39 | 30.0 29.0 | 29.3 | 4.0 | 25.3 | 2310 |
| 2 | R | | 28.4 27.2 | 27.6 | 4.0 | 23.6 | 2100 |
| 3 | Y | | 27.8 27.0 | 27.3 | 4.0 | 23.3 | 1951 |
| 4 | B&W | 8 42 | 27.1 26.0 | 26.4 | 4.0 | 22.4 | 1820 |
| 5 | R | | 26.8 25.8 | 26.1 | 4.0 | 22.1 | 1702 |
| 6 | Y | | 25.5 24.5 | 24.8 | 4.0 | 20.8 | 1520 |
| 7 | B&W | 8 45 | 24.0 23.5 | 23.7 | 4.0 | 19.7 | 1389 |
| 8 | R | | 22.0 21.9 | 21.9 | 4.1 | 17.8 | 1261 |
| 9 | Y | | 19.2 18.0 | 18.4 | 4.1 | 14.3 | 1071 Rocky Bottom |
| 10 | B&W | 8 48 | 16.8 16.0 | 16.3 | 4.1 | 12.2 | 970 |
| 11 | R | | 14.7 13.8 | 14.1 | 4.1 | 10.0 | 873 |
| 12 | Y | | 15.8 13.9 | 14.5 | 4.1 | 10.4 | 780 |
| 13 | B&W | 8 51 | 15.8 13.5 | 14.0 | 4.1 | 9.9 | 681 |
| 14 | R | | 14.8 13.5 | 13.9 | 4.1 | 9.8 | 590 |
| 15 | Y | | 13.1 12.2 | 12.5 | 4.1 | 8.4 | 518 |
| 16 | B&W | 8 53 | 12.4 11.2 | 11.6 | 4.1 | 7.5 | 450 |
| 17 | R | | 10.8 9.5 | 9.9 | 4.1 | 5.8 | 391 |
| 18 | Y | | 8.5 7.5 | 7.8 | 4.1 | 3.7 | 342 |

Boat 560+00 N

F. B. 1507 PG. 10.2 | Job No. 2-[illegible] | Division No. | Notes Red. | Plotted | Profile

Survey of [illegible] | Date | Date | No.

Survey by F. H. BLANCHARD | Notes | Notes Chkd. | Checked | X-Sec.

Indexed C. Johnson | Date | Date | Date | No.

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | |
|---|---|---|---|---|---|
| # | Color | Time | Hgt. Instr. | Bottom | Tide Adj. Depth Remarks |

76L298 307 10-51

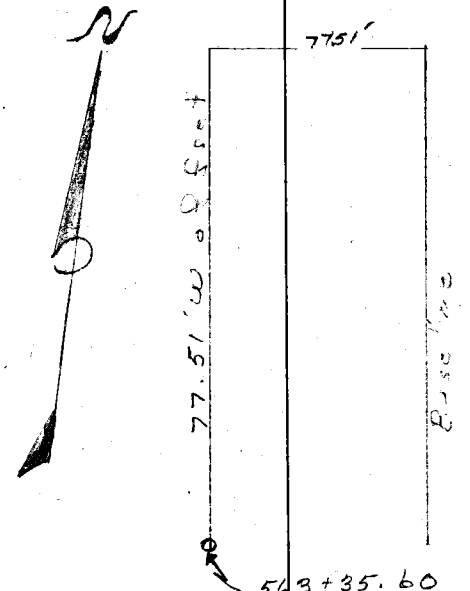
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red Platted Job No. 8412 Division No. F.B. 1537 Pg. 62
No. Date Date Survey of Date
X-Sec. Notes Chkd Checked Survey by Date
No. Date Date Map No. Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 563+35.60 M |
|---|---|---|---|---|---|
| Inst. Sight | # | Color | Time | Hor. Ang. | Remarks |
| At On | | | : | 3°18'40" | |
| 563+35.60 M | B.S. 200' | | : | | |
| | | | : | | |
| | | | : | | |
| | | | : | | |
| | | | : | | |
| | | | : | | |
| | | | : | 86°18'40" | |




Range 563+35.60 M

F.B. 1507 PG. 104 Job No. 8412 Division No. Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date Date
Survey by A. C. Johnson Notes Notes Chkd. Checked
Indexed Notes Date Date Date
Profile No. X-Sec. No.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | Page | Reduction |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | P1 | Y | | 86°18'40" | | |
| | P2 | G-W | | | | |
| | 13 | R | | | | |
| | P1 | Y | | | | |
| | P2 | G-W | | | | |
| | 13 | R | | | | |
| | P1 | Y | | | | |
| | 13 | G-W | | 86°14'15" | | |

RANGE 5637+3560 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile No.____ Notes Red____ Plotted____ Job No. 8412 Division No.____ F.B. 1507 Pg. 105
X-Sec. No.____ Date____ Date____ Survey of____ Date 12-11-53
Notes Chkd____ Checked____ Survey by____ Date____
Date____ Date____ Map No.____ Date____

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 563+35.60 |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks |
| | 1 | BW | 753 | 62°47 | |
| | 2 | R | | 6143 | |
| | 3 | Y | | 6039 | |
| | 4 | BW | 755 | 5921 | |
| | 5 | R | | 5803 | |
| | 6 | Y | | 5627 | |
| | 7 | BW | 758 | 5436 | |
| | 8 | R | | 5325 | |
| | 9 | Y | | 5205 | |
| | 10 | BW | 800 | 5014 | |
| | 11 | R | | 4829 | |
| | 12 | Y | | 4619 | |
| | 13 | BW | 802 | 4433 | |
| | 14 | R | | 4201 | |
| | 15 | Y | | 4200 | |
| | 16 | BW | 806 | 4058 | |
| | 17 | R | | 4049 | |
| | 18 | Y | | 3955 | |
| | 19 | BW | 809 | 3722 | |
| | 20 | R | | 3447 | |

552+97.99N 68.45' N50 See drawing

OFF SET 11 1/2" TO FENCE LINE

68.45' (558')

N50

88°01'

68.45'

552+97.99N

INST. HERE

CUT-IN 563+35.60 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

(7)

Do not extend notes this side of this line.

F.B. 1507 PG. 106 | Job No. 8412 Division No. | Notes Red. | Plotted | Profile
Survey of Rose Hills Estates | Date | Date | No.
Survey by F.H. Emerson and D. Johnson | Notes Chkd | Checked | X-Sec.
Indexed [redacted] Notes | Date | Date | No.
[redacted] Date

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | 31 45 | | |
| | 22 | BW | | 29 17 | | |
| | 23 | R | | 27 06 | | |
| | 24 | Y | | 23 17 | | |
| | 25 | BW | 8 14 | 21 15 | | |
| | 26 | R | | 19 37 | | |
| | 27 | Y | | 16 56 | | |
| | 28 | BW | 8:17 | 15 08 | | |
| | 29 | R | | 12 55 | | |
| CUT-in 563+35.60 N | | | | | | |

74L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. CEM Plotted Job No. F.B. 1507 Pg. 42
No. T.Sec. Date 1/18/54 Date Survey of Division No.
Notes Chkd. K.K. Checked Survey by T.H. BLANCHARD & ASSOC.
No. Date 1-22-54 Date Map No. Indexed Date

| # | Color | Time | H. I. | Depth Bottom | F. S. | ELEV. | Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | BOAT | | 5683-3560 N |
| 1 | BxW | 7:53 | 30.0 | 29.0 | 29.3 | 3.6 | | 25.7 | 2386 |
| 2 | R | | 29.0 | 28.0 | 28.3 | 3.6 | | 24.7 | 2270 |
| 3 | Y | | 28.0 | 27.0 | 27.4 | 3.6 | | 23.8 | 2150 |
| 4 | BxW | 7:56 | 28.0 | 27.0 | 27.3 | 3.6 | | 23.7 | 2040 |
| 5 | R | | 27.0 | 26.0 | 26.3 | 3.6 | | 22.7 | 1930 |
| 6 | Y | | 26.8 | 25.8 | 26.1 | 3.6 | | 22.5 | 1808 |
| 7 | BxW | 7:58 | 24.8 | 24.0 | 24.3 | 3.6 | | 20.7 | 1681 |
| 8 | R | | 24.8 | 23.5 | 23.9 | 3.6 | | 20.3 | 1605 |
| 9 | Y | | 24.0 | 22.8 | 23.2 | 3.6 | | 19.6 | 1525 |
| 10 | BxW | 8:01 | 22.7 | 21.5 | 21.9 | 3.7 | | 18.2 | 1428 |
| 11 | R | | 21.7 | 20.6 | 21.0 | 3.7 | | 17.3 | 1339 |
| 12 | Y | | 20.5 | 19.2 | 19.6 | 3.7 | | 15.9 | 1239 |
| 13 | BxW | 8:03 | 21.0 | 19.8 | 20.2 | 3.7 | | 16.5 | 1161 |
| 14 | R | | 19.8 | 18.8 | 19.2 | 3.7 | | 15.5 | 1063 ROCKY BOTTOM |
| 15 | Y | | 18.8 | 18.0 | 18.3 | 3.7 | | 14.6 | 1063 " " |
| 16 | BxW | 8:07 | 16.0 | 15.5 | 15.7 | 3.7 | | 12.0 | 1025 MIGHT BE A HOLE |
| 17 | R | | 16.0 | 15.0 | 15.3 | 3.7 | | 11.6 | 1019 |
| 18 | Y | | 15.2 | 14.5 | 14.5 | 3.7 | | 10.8 | 990 |
| 19 | BxW | 8:10 | 13.5 | 12.8 | 12.9 | 3.7 | | 9.2 | 905 |
| 20 | R | | 13.5 | 12.8 | 13.1 | 3.7 | | 9.4 | 823 |

BOAT 5684-35 E

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1607 Pg. 108 | Job No. 8742 Division No. | Profile
Survey of BSC EROSION STUDY Notes Plotted
Survey by F. H. BLANCHARD Notes A.S. Date 1/18/54 No. | X-Sec.
Indexed C. Johnson Date | Notes Chkd. A.C. Checked
Date 2-2-54 Date | No.

BOAT 563+35.60N

| STATION # | Color | B. B. Time | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|
| 21 | Y | | 12.4<br>11.5 | 11.8 | 3.7 | 8.1 | 739 |
| 22 | B×W | 8:12 | 13.0<br>11.3 | 11.9 | 3.7 | 8.2 | 675 |
| 23 | R | | 13.2<br>12.0 | 12.4 | 3.8 | 8.6 | 620 |
| 24 | Y | | 11.6<br>11.0 | 11.2 | 3.8 | 7.4 | 530 |
| 25 | B×W | 8:16 | 11.0<br>10.0 | 10.3 | 3.8 | 6.5 | 484 |
| 26 | R | | [illegible] | 8.6 | 3.8 | 4.8 | 449 |
| 27 | Y | | [illegible] | 8.3 | 3.8 | 4.5 | 391 |
| 28 | B×W | 8:17 | 10.0<br>9.0 | 9.3 | 3.8 | 5.5 | 356 |
| 29 | R | | 8.2<br>7.0 | 7.4 | 3.8 | 3.6 | 310 |

BOAT - 576+36.60

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

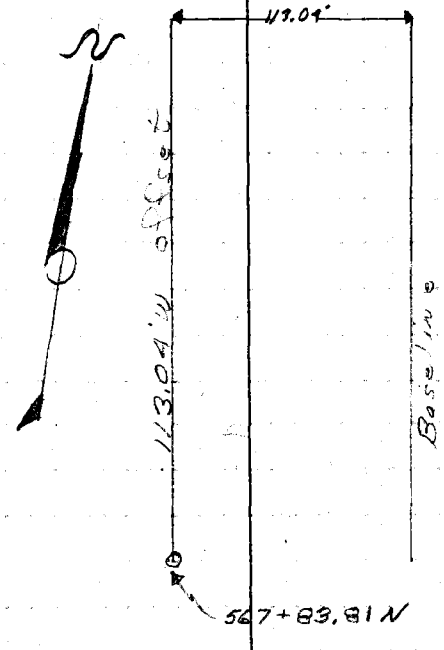
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted. Job No. 8417 Division No. F. B. 1507 Pg. 109
No. Date Date Survey of BEECH BROWN STREETS
X-Sec. Notes Chkd. Checked Survey by H. H. Johnson & Chas. Dix Date 12-11-53
No. Date Date Map No. Checked Johnson Date

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. |
| | 1 | B+W | 9:35 | 39°02'40" |
| | 2 | R | | " |
| | 3 | Y | | " |
| | 4 | B+W | 9:38 | " |
| | 5 | R | | " |
| | 6 | Y | | " |
| | 7 | B+W | 9:40 | " |
| | 8 | R | | " |
| | 9 | Y | | " |
| | 10 | B+W | 9:43 | " |
| | 11 | R | | " |
| | 12 | Y | | " |
| | 13 | B+W | 9:46 | " |
| | 14 | R | | " |
| | 15 | Y | | " |
| | 16 | B+W | 9:48 | " |
| | 17 | R | | " |
| | 18 | Y | | " |
| | 19 | B+W | 9:50 | " |
| | 20 | R | | " |

Range 567+83.81N




Range 567+83.81N

F. B. 1507 Pg. 110 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date | Date | No.

Survey by E. H. DIAMOND | Notes | Notes Chkd. | Checked | X-Sec.

Indexed C. Johnson | Date | Date | Date | No.

RANGE 567+83.81 N

| STATION | Inst. Sight | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|---|
| 567+83.81 | 113.04 W offset | | | | | |
| 567+83.81 | B. S. 400' | | | | | |
| | # | 21 | | | | |
| | Color | V | | | | |
| | | 22 | B+W | | | |
| | | 23 | R | | | |
| | Time | | | 9:33 | | |
| | Hor. Ang. | | | | 83°-15 | |
| | | | | | | Range |
| | | | | | | 567+83.81 N |

76L298 307 8-53

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 Los Angeles County Engineering Bldg.

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

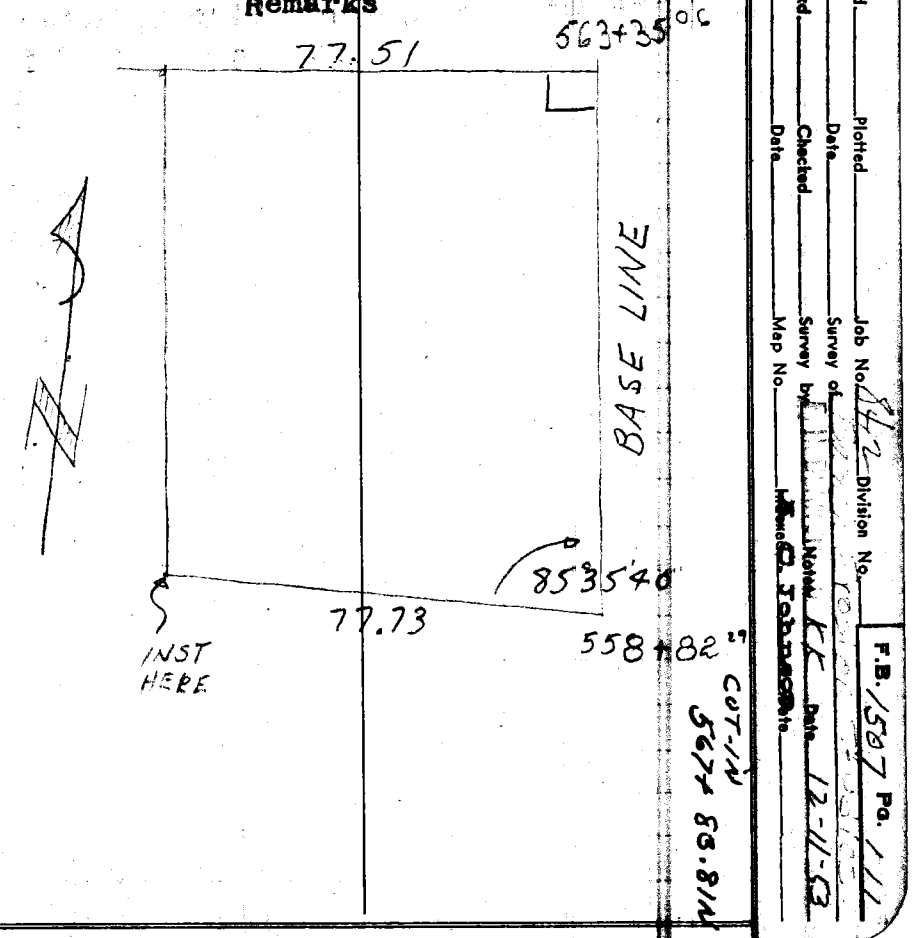
**Do not extend notes this side of this line.**

Profile Notes Red ____ Plotted ____ Job No 8422 Division No. ____ F.B. 1597 Pg. 44
No. ____ Date ____ Date ____ Survey of ____ Notes KK Date 12-11-63
X-Sec. Notes Chkd ____ Checked ____ Survey by ____ Notes C. Johnson Date ____
No. ____ Date ____ Date ____ Map No. ____ Notes ____ Date ____

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight At / On | # | Color | Time | Hor. Ang. |
| | 1 | BW | 9 33 | 65 28 |
| | 2 | R | | 64 06 |
| | 3 | Y | | 62 38 |
| | 4 | BW | 9 36 | 60 55 |
| | 5 | R | | 58 47 |
| | 6 | Y | | 56 01 |
| | 7 | BW | 9 38 | 53 22 |
| | 8 | R | | 51 38 |
| | 9 | Y | | 49 18 |
| | 10 | BW | 9 41 | 46 48 |
| | 11 | R | | 44 20 |
| | 12 | Y | | 42 02 |
| | 13 | BW | 9 44 | 39 00 |
| | 14 | R | | 36 42 |
| | 15 | Y | | 33 56 |
| | 16 | BW | 9 47 | 31 33 |
| | 17 | R | | 29 18 |
| | 18 | Y | | 27 42 |
| | 19 | BW | | 25 54 |
| | 20 | R | | 24 47 |

Cut in 567+83.81

Remarks




558+82.29 / 563+35.26 / 77.73 OFF / 77.51 OFF

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 4502 Pg. 1/2 Job No. 8412 Division No. Notes Red Plotted
Survey of Beach Erosion Studies Date No.
Survey by Date Notes Notes Chkd Checked X-Sec.
Indexed C. Johnson Date Date Date No.
Profile

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | | Remarks |
| | 21 | Y | | 2[illegible] 19 | | |
| | 22 | BW | 951 | 2[illegible] 54 | | |
| | 23 | R | | 1[illegible] 15 | | |
| CUT-IN. 567+83.81 N. | | | | | | |

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. CEM Plotted Job No. 8412 Division No.
No. Date 1/18/54 Date Survey of Beach Erosion Survey
X-Sec. Notes Chkd. KK Checked Survey by EMS Date 12/17/53
No. Date 1-22-54 Date Map No. Indexed Checked Date
F. B. 1507 Pg. 152

Boat 567+83.81N

| STATION # | Color | Time | B. S. | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | Adj. Depth | Remarks | Used adj. Depth |
|---|---|---|---|---|---|---|---|---|---|
| 1 | B&W | 934 | | 32.2 31.0 | 31.4 | 4.5 | 26.9 | | 2043 |
| 2 | R | | | 29.1 28.0 | 28.4 | 4.5 | 23.9 | | 1922 |
| 3 | Y | | | 28.0 26.5 | 27.0 | 4.5 | 22.5 | | 1808 |
| 4 | B&W | 937 | | 27.0 26.0 | 26.3 | 4.5 | 21.8 | | 1690 |
| 5 | R | | | 27.1 26.1 | 26.4 | 4.5 | 21.9 | | 1554 |
| 6 | Y | | | 25.6 24.1 | 25.0 | 4.5 | 20.5 | | 1408 |
| 7 | B&W | 939 | | 22.5 21.0 | 21.5 | 4.5 | 17.0 | | 1283 |
| 8 | R | | | 23.0 22.0 | 22.3 | 4.5 | 17.8 | | 1210 |
| 9 | Y | | | 21.6 20.1 | 21.0 | 4.5 | 16.5 | | 1120 |
| 10 | B&W | 942 | | 20.8 19.8 | 20.1 | 4.5 | 15.6 | | 1030 |
| 11 | R | | | 20.5 19.5 | 19.8 | 4.5 | 15.3 | Rocky Bottom | 952 |
| 12 | Y | | | 19.0 17.8 | 18.2 | 4.5 | 13.7 | " " | 885 |
| 13 | B&W | 945 | | 18.1 17.1 | 17.4 | 4.5 | 12.9 | " " | 801 |
| 14 | R | | | 17.1 15.8 | 16.2 | 4.5 | 11.7 | | 741 |
| 15 | Y | | | 16.4 15.0 | 15.5 | 4.6 | 10.9 | | 680 |
| 16 | B&W | 947 | | 14.6 13.8 | 14.1 | 4.6 | 9.5 | | 625 |
| 17 | R | | | 14.0 12.3 | 12.9 | 4.6 | 8.3 | | 579 |
| 18 | Y | | | 11.3 10.3 | 10.6 | 4.6 | 6.0 | | 544 |
| 19 | B&W | 949 | | 11.5 10.0 | 10.5 | 4.6 | 5.9 | | 510 |
| 20 | R | | | 10.5 9.5 | 9.8 | 4.6 | 5.2 | | 490 |

Boat 567+83.81N

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1502 Pg. 114 Job No. 8412 Division No. Stream Surveys
Survey of Beach Erosion Control Notes Red CEM Plotted Date 1/18/54
Survey by E.H.B. Notes PHB Notes Chkd. Checked
Indexed Date Date 1-22-54
Profile No. X-Sec. No.

| STATION | B. S. | H. I. | F. S. | ELEV. | Boat | 567+83.81 N |
|---|---|---|---|---|---|---|
| # Color Time ~~Hard~~ Depth | | Bottom Tide | | Adj. Depth | Remarks | |
| 21 Y | | 12.2<br>11.5 | 12.1 | 4.6 | 7.5 451 | |
| 22 BEW | 9.52 | 9.5<br>8.6 | 8.8 | 4.6 | 4.2 420 | POT HOLES IN |
| 23 R | | 8.5<br>7.5 | 7.8 | 4.6 | 3.2 398 | LINE WITH GRAIN |

Boat 567+83.81 N

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 84/17 Division No.____ F. B. 15077 Pg. 1/2

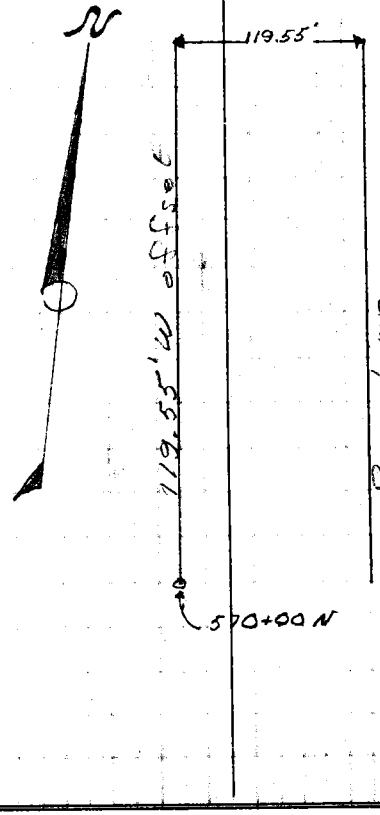
No.____ Date____ Date____ Survey of BEACH EROSION STUDIES

X-Sec. Notes Chkd.____ Checked____ Survey by H. L. BRADLEY AND PARTY Date 12-11-33

No.____ Date____ Date____ Map No.____ Indexed by____ Date____

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight At On | | # Color | Time | Hor. Ang. Remarks |
| | 1 | B+W | 11:01 | 90°00' |
| | 2 | R | | 90°00' |
| | 3 | Y | | 90°00' |
| | 4 | B+W | 11:04 | 90°00' |
| | 5 | R | | 90°00' |
| | 6 | Y | | 90°00' |
| | 7 | B+W | 11:07 | 89°55' |
| | 8 | R | | 89°51' |
| | 9 | Y | | 90°00' |
| | 10 | B+W | 11:09 | 90°00' |
| | 11 | R | | 90°00' |
| | 12 | Y | | 90°00' |
| | 13 | B+W | 11:12 | 90°00' |
| | 14 | R | | 90°00' |
| | 15 | Y | | 90°00' |
| | 16 | B+W | 11:15 | 90°00' |
| | 17 | R | | 90°00' |
| | 18 | Y | | 90°00' |
| | 19 | B+W | 11:17 | 90°00' |
| | 20 | R | | 90°00' |

Range 570+00 N




Range 570+00 N

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1507 Pg. 116 | Job No. 8412 Division No. EROSION STUDIES | Notes Red. | Plotted | Profile
Survey of BEACH | Date | No. | X-Sec.
Survey by F. H. BLANCHARD | Notes Chkd. | Checked
Indexed [redacted] Notes | Date | Date | No.

RANGE 570+00 N

| STATION | | B. S. | H. I. | F. S. | ELEV. | Range 570+00 N | |
|---|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | | 21 | Y | | | | |
| | | 22 | B+W | 11:19 | | | |
| | | 23 | R | | | | |
| | | 24 | Y | | | | |
| | | 25 | B+W | 11:21 | | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

9

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 8412 Division No.____ F.B. 1507 Pg. 122
No.____ Date____ Date____ Survey of 1957 Date____
X-Sec. Notes Chkd____ Checked____ Survey by H. H. BLACKBURN KK Date 12-11-57
No.____ Date____ Date____ Map No.____ Checked by R. Johnson Date____

Cut-in 570+00

| STATION | B. S. | H. I. | F. S. | ELEV. | Inst. Sight At ON |
|---|---|---|---|---|---|
| | # | Color | Time | Hor. Ang. | |
| | 1 | B+W | 10 59 | 62° 56' | |
| | 2 | R | | 61° 23' | |
| | 3 | Y | | 59° 46' | |
| | 4 | B+W | MISSED → | | |
| | 5 | R | 11 03 | 57 04 | |
| | 6 | Y | | 55 17 | |
| | 7 | B+W | 11 05 | 53 30 | |
| | * 8 | R | | 51 20 | |
| | 9 | Y | | 49 25 | |
| | 10 | B+W | 11 07 | 47 01 | |
| | 11 | R | | 45 13 | |
| | 12 | Y | | 42 51 | |
| | 13 | B+W | 11 10 | 40 01 | |
| | 14 | R | | 37 46 | |
| | 15 | Y | | 35 38 | |
| | 16 | B+W | 11 12 | 33 36 | |
| | 17 | R | | 31 26 | |
| | 18 | Y | | 29 16 | |
| | 19 | B+W | 11 15 | 27 17 | |
| | 20 | R | | 24 38 | |

Remarks

Set up same as for previous range (557+83.81

Cut-in 570+00 N

558+82.29 77.73 OFF

563+35.06 77.51 OFF

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 118 Job No. 8412 Division No. Profile

Survey of Boscell Rossier Tracts No. X-Sec.

Survey by [illegible] Notes KK Notes Red Date Notes Chkd Date

Indexed R. O. Johnson Date Date Checked Date

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | 22°59' | | |
| | 22 | Bw | 11 16 | 21 07 | | |
| | 23 | R | | 19 23 | | |
| | 24 | Y | | 18 04 | | |
| | 25 | Bw | 11 19 | 16 30 | | |

Cot. in. 570 to N.

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Boat 570+00 N

| STATION # | Color | B. S. Time | H. I. Rod Depth | F. S. Bottom | ELEV. Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | B&W | 10 59 | 30.0 29.0 | 29.3 | 5.0 | 24.3 | 2445 |
| 2 | R | | 31.2 29.8 | 30.3 | 5.0 | 25.3 | 2286 |
| 3 | Y | | 29.3 28.7 | 28.9 | 5.0 | 23.9 | 2131 |
| 4 | B&W | 11 03 | 28.5 28.0 | 28.2 | 5.0 | 23.2 | missed |
| 5 | R | | 28.3 27.1 | 27.8 | 5.0 | 22.8 | 1918 |
| 6 | Y | | 27.8 26.8 | 27.1 | 5.0 | 22.1 | 1788 |
| 7 | B&W | 11 05 | 27.2 26.1 | 26.5 | 5.0 | 21.5 | 1678 |
| 8 | R | | 26.5 25.5 | 25.8 | 5.0 | 20.8 | 1547 |
| 9 | Y | | 24.8 23.8 | 24.1 | 5.0 | 19.1 | 1450 |
| 10 | B&W | 11 08 | 23.5 22.5 | 22.8 | 5.0 | 17.8 | 1331 |
| 11 | R | | 22.2 21.2 | 21.5 | 5.0 | 16.5 | 1252 |
| 12 | Y | | 21.3 20.8 | 21.0 | 5.0 | 16.0 | 1159 |
| 13 | B&W | 11 10 | 21.8 21.0 | 21.3 | 5.0 | 16.3 | 1051 |
| 14 | R | | 19.6 18.8 | 19.1 | 5.0 | 14.1 | 978 |
| 15 | Y | | 19.2 18.5 | 18.7 | 5.0 | 13.7 | 907 |
| 16 | B&W | 11 13 | 19.3 18.1 | 18.5 | 5.1 | 13.4 | 847 |
| 17 | R | | 17.7 16.8 | 17.1 | 5.1 | 12.0 | 783 |
| 18 | Y | | 17.1 16.2 | 16.5 | 5.1 | 11.4 | 722 |
| 19 | B&W | 11 15 | 16.3 15.1 | 15.5 | 5.1 | 10.4 | 671 Rocky Bottom |
| 20 | R | | 15.0 13.9 | 14.3 | 5.1 | 9.2 | 603 |

Base 570+00 N.

Profile Notes Red. CEM Plotted Job No. 2411 Division No.
No. Date 1/18/54 Date Survey of
Notes Checked Survey by H. BLANCHARD Field Date 12-11-53
No. Date 1-22-54 Date Map No. Checked Date
F. B. 1501 Pg. 23

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1507 Pg. 20 | Job No. 2412 Division No. | Profile
Survey of BEACH EROSION STUDY Date 1/18/54 No. | X-Sec.
Survey by F. H. BLANCHARD Notes | Checked
Indexed K. C. Johnson Date | Notes Red. CEM Plotted | No.
Notes Chkd. KK Date 1-22-54 | Scale

Boat 570+00 N

| STATION | | B. S. | H. I. | F. S. | ELEV. | Boat 570+00 N | |
|---|---|---|---|---|---|---|---|
| # | Color | Time | Depth | Bottom Tide | | Adj. Depth | Remarks |
| | | | 14.0 | | | | |
| 21 | Y | | 13.8 | 13.2 | 5.1 | 8.1 | 568 |
| 22 | B&W | 11 17 | 12.8 | 12.1 | 5.1 | 7.0 | 521 |
| 23 | R | | 11.8 | 10.4 | 5.1 | 5.3 | 483 |
| | | | 11.3 | | | | |
| 24 | Y | | 10.0 | 9.2 | 5.1 | 4.1 | 453 |
| | | | 9.9 | | | | |
| 25 | B&W | 11 20 | 8.8 | 7.7 | 5.1 | 2.6 | 420 |
| | | | 8.6 | | | | |
| | | | 7.2 | | | | |

Boat 570+00 N

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

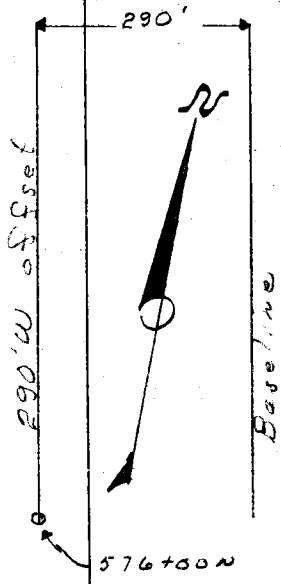
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 6417 Division No.
No. Date Date Survey of BEACH EROSION STUDIES F. B. 1507 Pg. 121
X-Sec. Notes Chkd. Checked Survey By H. [illegible] Note Date 12-11-53
No. Date Date Map No. Map Checked Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 576 +00 N |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks |
| | 1 | B+W | 11:31 | 90° 00 | |
| | 2 | R | | 90° 00 | |
| | 3 | Y | | 90° 00 | |
| | 4 | B+W | 11:33 | 90° 00 | |
| | 5 | R | | 90° 00 | |
| | 6 | Y | | 90° 00 | |
| | 7 | B+W | 11:36 | 90° 00 | |
| | 8 | R | | 90° 00 | |
| | 9 | Y | | 90° 00 | |
| | 10 | B+W | 11:38 | 90° 00 | |
| | 11 | R | | 90° 00 | |
| | 12 | Y | | 90° 00 | |
| | 13 | B+W | 11:40 | 90° 00 | |
| | 14 | R | | 90° 00 | |
| | 15 | Y | | 90° 00 | |
| | 16 | B+W | 11:42 | 90° 00 | |
| | 17 | R | | 90° 00 | |
| | 18 | Y | | 90° 00 | |
| | 19 | B+W | 11:44 | 90° 00 | |
| | 20 | R | | 90° 00 | |

290' W of 576+00 N
B.S. 100'

576+00 N
576+00 N




RANGE 576+00 N

F.S. 1507 Pg. 122 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date | Date | No.

Survey by E. H. BERNHARD | Notes | Notes Chkd. | Checked | X-Sec.

Indexed C. Johnson | Date | Date | Date | No.

RANGE 576+00 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight At OH | # | Color | Time | Hor. Ang. | |
| | 21 | Y | | | |
| | 22 | B+W | | | |
| | 23 | R | | | |
| | 24 | Y | | | |
| | 25 | B+W | | | |
| | | | | | Range |
| | | | | | 576+00 N |

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L298 307 4-50

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

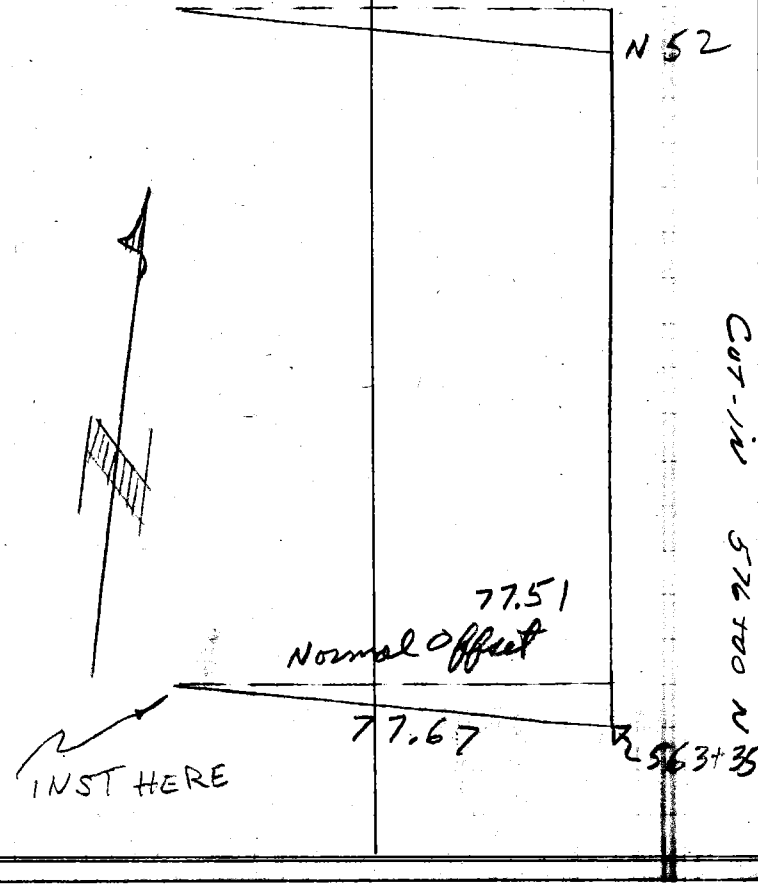
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No. 8413 Division No.____ F.B. 1507 Pg. 123
No.____ Date____ Date____ Survey of F. H. BLANCHARD ET AL Date 12-14-53
X-Sec. Notes Chkd____ Checked____ Survey by____ Notes by D. Johnson Date____
No.____ Date____ Date____ Map No.____

Cut in 576+00

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | |
| | 1 | BW | 11 29 | 7036 | |
| | 2 | R | | 6846 | |
| | 3 | Y | | 6729 | |
| | 4 | BW | 31 | 6550 | |
| | 5 | R | | 6345 | |
| | 6 | Y | | 6123 | |
| | 7 | BW | 33 | 5953 | |
| | 8 | R | | 5741 | |
| | 9 | Y | | 5559 | |
| | 10 | BW | 35 | 5359 | |
| | 11 | R | | 5127 | |
| | 12 | Y | | 4911 | |
| | 13 | BW | 38 | 4635 | |
| | 14 | R | | 4421 | |
| | 15 | Y | | MISSED | |
| | 16 | BW | 40 | 3959 | |
| | 17 | R | | 3719 | |
| | 18 | Y | | 3458 | |
| | 19 | BW | 41 | 3206 | |
| | 20 | R | | 2940 | |




Normal Offset 77.51
563+35.06 N. 52

F.B. 1507 Pg. 124 Job No 8412 Division No. Notes Red Plotted
Survey of BEACH EROSION STUDIES Date Date No.
Survey by F.H. HOWARD Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.
Profile X-Sec.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | 2644 | | |
| | 22 | BW | 1143 | 2409 | | |
| | 23 | R | | 2224 | | |
| | 24 | Y | | 2012 | | |
| | 25 | BW | 1145 | 1843 | | |
| | 26 | R | | 1701 | | |
| | 27 | Y | 1146 | 1541 | | |
| CUT-IN. 576+00. N. | | | | | | |

76L398 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Boat 576+00N

| STATION # | Color | Time | B. S. | H. I. | Depth | F. S. Bottom | ELEV. Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|---|---|
| 1 | B&W | 11 29 | | | 31.5 30.6 | 30.9 | 5.1 | 25.8 | 2435 |
| 2 | R | | | | 30.1 29.5 | 29.7 | 5.1 | 24.6 | 2290 |
| 3 | Y | | | | 29.1 28.2 | 28.5 | 5.1 | 23.4 | 2197 |
| 4 | B&W | 11 31 | | | 28.0 27.0 | 27.3 | 5.1 | 22.2 | 2081 |
| 5 | R | | | | 28.1 26.8 | 27.2 | 5.1 | 22.1 | 1954 |
| 6 | Y | | | | 28.4 27.1 | 27.5 | 5.1 | 22.4 | 1820 |
| 7 | B&W | 11 34 | | | 28.2 27.3 | 27.6 | 5.1 | 22.5 | 1740 |
| 8 | R | | | | 26.8 25.5 | 25.9 | 5.1 | 20.8 | 1640 |
| 9 | Y | | | | 25.1 24.0 | 24.4 | 5.1 | 19.3 | 1563 |
| 10 | B&W | 11 36 | | | 26.0 25.0 | 25.3 | 5.1 | 20.2 | 1481 |
| 11 | R | | | | 23.4 22.6 | 22.9 | 5.0 | 17.9 | 1381 |
| 12 | Y | | | | 22.9 22.0 | 22.3 | 5.0 | 17.3 | 1300 |
| 13 | B&W | 11 38 | | | 21.6 20.8 | 21.1 | 5.0 | 16.1 | 1211 |
| 14 | R | | | | 19.8 19.0 | 19.3 | 5.0 | 14.3 | 1141 |
| 15 | Y | | | | 20.2 19.2 | 19.5 | 5.0 | 14.5 | missed |
| 16 | B&W | 11 40 | | | 18.8 17.8 | 18.1 | 5.0 | 13.1 | 1012 |
| 17 | R | | | | 19.0 18.0 | 18.3 | 5.0 | 13.3 | 940 ROCKY BOTTOM |
| 18 | Y | | | | 18.3 17.3 | 17.4 | 5.0 | 12.4 | 879 |
| 19 | B&W | 11 42 | | | 17.8 16.9 | 17.1 | 5.0 | 12.1 | 807 |
| 20 | R | | | | 15.9 14.8 | 15.2 | 5.0 | 10.2 | 750 |

Boat 576+00N

Profile Notes Red CEM Plotted
No. Date 11/18/54 Date
Misc. Notes Cmkd. Checked
Date Date
No. Survey of
Survey by F. H. BLANCHARD
Map No. Traced by J. Jackson Date
Job No. 8412 Division No.
F. B. 1507 Pg. 25

F. B. 1507 Pgs. 126 Job No 5412 Division No. Profile

Survey of REDONDO STUDY Plotted CEM

Survey by U. S. COAST AND GEODETIC SURVEY Date 1/18/54 No. X-Sec.

Indexed J. B. Johnson Notes Blueprint Checked [illegible] No.

Date Date 2-2-54

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | Boat | 576 too N |
|---|---|---|---|---|---|---|
| # Color Time | | Hours Depth | Bottom | Tide | Adj. Depth | Remarks |
| 21 Y | | 15.2 14.7 | 14.9 | 5.0 | 9.9 | 679 |
| 22 B&W | 11 44 | 14.8 13.8 | 14.1 | 5.0 | 9.1 | 622 |
| 23 R | | 14.0 12.8 | 13.2 | 5.0 | 8.2 | 581 |
| 24 Y | | 13.0 11.8 | 12.2 | 5.0 | 7.2 | 532 |
| 25 B&W | 11 45 | 11.5 10.6 | 10.9 | 5.0 | 5.9 | 500 |
| 26 R | | 9.8 8.9 | 9.2 | 5.0 | 4.2 | 463 |
| 27 Y | | 7.5 6.5 | 6.8 | 5.0 | 1.8 | 434 |

Boat Station N

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. ____ Plotted ____ Job No. 8412 Division No. ____ F. B. 1507 Pg. 127

No. ____ Date ____ Date ____ Survey of ____

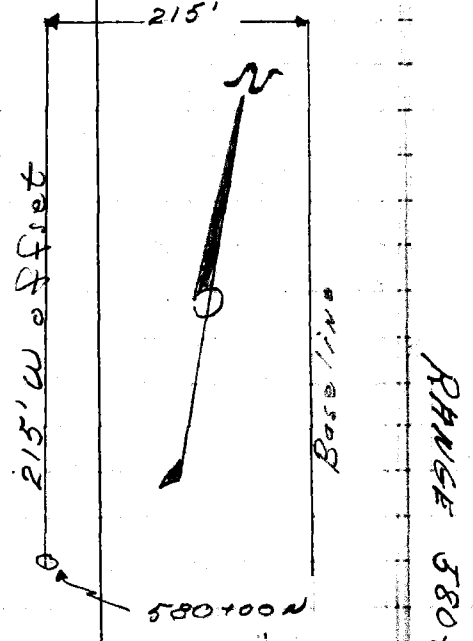
X-Sec. Notes Chkd ____ Checked ____ Survey by ____ Date 12-11-53

No. ____ Date ____ Map No. ____ Date ____

Range 580+00N

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight At / On | # | Color | Time | Hor. Ang. |
| 215'W of Set | 1 | B+W | 11:59 | 90° 00' |
| | 2 | R | | 90° 00' |
| B.S. 200' | 3 | Y | | 90° 00' |
| | 4 | B+W | 12:02 | 90° 00' |
| | 5 | R | | 90° 00' |
| | 6 | Y | | 90° 00' |
| | 7 | B+W | 12:04 | 90° 00' |
| | 8 | R | | 90° 00' |
| | 9 | Y | | 90° 00' |
| | 10 | B+W | 12:06 | 90° 00' |
| | 11 | R | | 90° 00' |
| | 12 | Y | | 90° 00' |
| 580+00N | 13 | B+W | 12:08 | 90° 00' |
| | 14 | R | | 89° 13' |
| | 15 | Y | | 90° 00' |
| 580+00N | 16 | B+W | 12:10 | 90° 00' |
| | 17 | R | | 90° 00' |
| | 18 | Y | | 90° 00' |
| | 19 | B+W | 12:12 | 90° 00' |
| | 20 | R | | 90° 00' |

Remarks




RANGE 580+00 N

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1507 Pg. 128 Job No. Division No. Notes Red. Plotted
Survey of Date No.
Survey by Notes Chkd. Checked
Indexed Notes Date Date
Profile No. X-Sec.

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 580+00N |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks |
| | 21 | Y | | 90 00 | |
| | P2 | B+W | 12:14 | 90 03 | |
| | 23 | R | | 90 00 | |
| | 24 | Y | | 90 00 | |

RANGE 580+00 N.

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red No. Date X-Sec. Notes Chkd. Date No. Date

Plotted Date Checked Date Map No.

Job No. 8412 Division No. Survey of TRACT 37600 Survey by T. H. BEARDSHARD Date 12-11-52 Checked by C. Jenkins Date

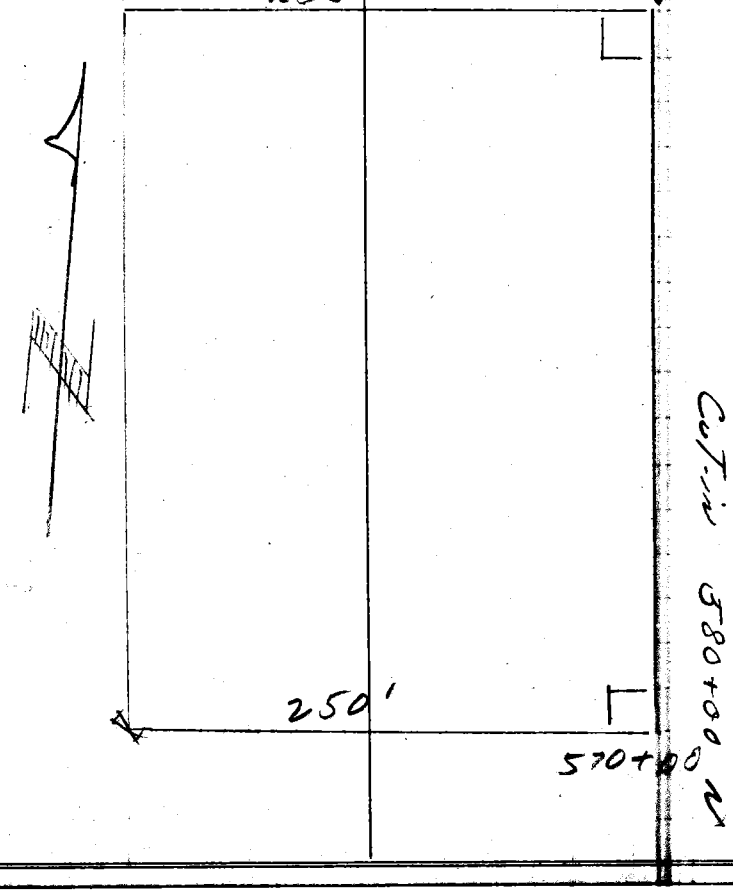
F.B. 1597 Pg. 129

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut in 580+90 |
|---|---|---|---|---|---|
| Inst. Sight At Or | # | Color | Time | Hor. Ang. | Remarks |
| | 1 | BW | 1157 | 7638 | |
| | 2 | R | | 7530 | |
| | 3 | Y | | 7405 | |
| | 4 | BW | 1159 | 7219 | |
| | 5 | R | | 7044 | |
| | 6 | Y | | 6853 | |
| | 7 | BW | 1201 | 6626 | |
| | 8 | R | | 6418 | |
| | 9 | Y | | 6155 | |
| | 10 | BW | 1203 | 5853 | |
| | 11 | R | | 5552 | |
| | 12 | Y | | 5232 | |
| | 13 | BW | 1206 | 4848 | |
| | 14 | R | | 4541 | |
| | 15 | Y | | 4243 | |
| | 16 | BW | 1207 | 3914 | |
| | 17 | R | | 3450 | |
| | 18 | Y | | 3115 | |
| | 19 | BW | 1209 | 2811 | |
| | 20 | R | | 2453 | |

570+00 N 250' OFF

N53 250' OFF

N53



76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg 130 Job No. 8412 Division No. Profile No. X-Sec. No.
Survey of BEACH EROSION STUDIES Plotted Date Date Checked Date Date
Survey by [illegible] Notes Date Notes Chkd Date Notes Date
Indexed C. Johnson

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | 22° 06 | | |
| | 22 | BW | 1212 | 19° 37 | | |
| | 23 | R | | 17° 27 | | |
| | 24 | Y | | 16° 31 | | |
| CUT-IN STA 0+00 N | | | | | | |

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Boat 580+00 N

| STATION # | Color | Time | B. S. | H. I. | F. S. Bottom | ELEV. Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|---|
| 1 | B&W | 11 59 | | 31.9 / 30.8 | 31.2 | 5.0 | 26.2 | 2240 |
| 2 | R | | | 28.4 / 27.5 | 27.8 | 5.0 | 22.8 | 2150 |
| 3 | Y | | | 28.0 / 26.9 | 27.3 | 5.0 | 22.3 | 2051 |
| 4 | B&W | 12 00 | | 26.8 / 25.8 | 26.1 | 5.0 | 21.1 | 1935 |
| 5 | R | | | 26.5 / 25.5 | 25.8 | 5.0 | 20.8 | 1840 |
| 6 | Y | | | 26.8 / 25.7 | 26.1 | 5.0 | 21.1 | 1736 |
| 7 | B&W | 12 02 | | 25.2 / 24.0 | 24.4 | 5.0 | 19.4 | 1620 |
| 8 | R | | | 25.1 / 23.7 | 24.2 | 5.0 | 19.2 | 1525 |
| 9 | Y | | | 23.9 / 23.1 | 23.4 | 4.9 | 18.5 | 1395 |
| 10 | B&W | 12 04 | | 23.0 / 21.6 | 22.1 | 4.9 | 17.2 | 1322 |
| 11 | R | | | 20.5 / 20.2 | 20.3 | 4.9 | 15.4 | 1229 |
| 12 | Y | 1 | | 20.5 / 19.5 | 19.8 | 4.9 | 14.9 | 1131 |
| 13 | B&W | 12 06 | | 17.2 / 16.0 | 16.4 | 4.9 | 11.5 | 1036 |
| 14 | R | | | 15.6 / 14.5 | 14.9 | 4.9 | 10.0 | 953 |
| 15 | Y | | | 14.9 / 13.9 | 14.2 | 4.9 | 9.3 | 895 Rocky Bottom |
| 16 | B&W | 12 08 | | 13.2 / 12.5 | 12.9 | 4.9 | 8.0 | 822 |
| 17 | R | | | 12.8 / 11.2 | 11.7 | 4.9 | 6.8 | 737 |
| 18 | Y | | | 13.0 / 11.3 | 12.0 | 4.9 | 7.1 | 670 |
| 19 | B&W | 12 10 | | 12.3 / 11.5 | 11.8 | 4.9 | 6.9 | 618 |
| 20 | R | | | 11.3 / 10.0 | 10.4 | 4.9 | 5.5 | 560 |

Boat 580+00 N

Profile Notes Red. CEM Plotted Job No. 542 Division No.
No. Date 1/18/54 Date Survey of
No. Date Checked Survey by F. H. BLANCHARD Date 12-16-53
Date Map No. Checked by Jenkins Date

F. B. 1597 Pg. 29

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1507 Pg. 132
Job No. 5412 Division No. _____ Notes Req. CEM Plotted _____ Profile
Survey of BEACH EROSION STUDY Date 1/18/54 Date _____ No. _____ X-Sec.
Survey by [illegible] Notes _____ Notes Chkd. KK Checked _____ No. _____
Indexed R. C. Johnson Date _____ Date 2-22-54 Date _____

Boat 580+00 N

| STATION | B. S. | H. I. | F. S. | ELEV. | | Boat 580+00 N |
|---|---|---|---|---|---|---|
| # Color Time | | Meas. Depth | Bottom | Tide | Adj. Depth | Remarks |
| | | 11.3 | | | | |
| 21 Y | | 10.5 | 10.8 | 4.9 | 5.9 | 513 |
| | | 12.1 | | | | |
| 22 B&W 12:12 | | 10.8 | 11.2 | 4.9 | 6.3 | 471 |
| | | 9.8 | | | | |
| 23 R | | 8.8 | 9.1 | 4.9 | 4.2 | 434 |
| | | 8.6 | | | | |
| 24 Y | | 7.6 | 7.9 | 4.9 | 3.0 | 411 |

Boat 580+00 N

76L298 307 10-51

PLEASE RETURN TO

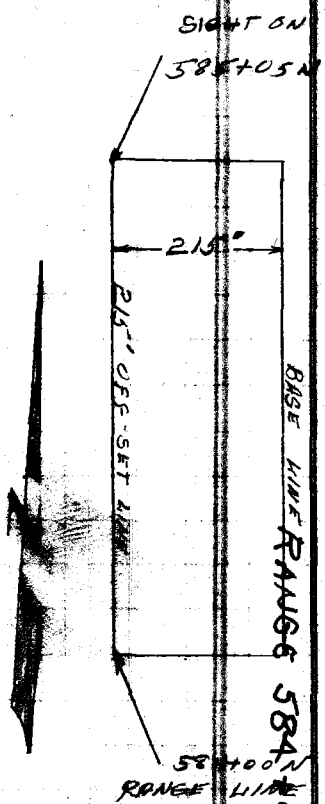
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile No.____ Notes Red____ Plotted____ Job No. 5412 Division No.____ F.B. 1507 Pg. 123
X-Sec. No.____ Date____ Date____ Survey of RANGE LINE Date 12-14-53
Notes Chkd.____ Checked____ Survey by: F. H. LEONARD, T.C. Com.
Date____ Map No.____ Traced____ Date____

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE | 584400 N |
|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | | 1 | B & W | 6:55 | 90° 00' | |
| | | 2 | R | | 90° 00' | |
| | | 3 | Y | | 90° 00' | |
| | | 4 | B & W | 7:00 | 90° 00' | |
| | | 5 | R | | 90° 00' | |
| | | 6 | Y | | 90° 00' | |
| | | 7 | B & W | 7:23 | 90° 00' | |
| | | 8 | R | | 90°00' | |
| | | 9 | Y | | 90°00' | |
| | | 10 | B & W | 7:26 | 90°00' | |
| | | 11 | R | | 90°00' | |
| | | 12 | Y | | 90°00' | |
| | | 13 | B & W | 7:30 | 89°42' | |
| | | 14 | R | | 90°00' | |
| | | 15 | Y | | 90°00' | |
| | | 16 | B & W | 7:35 | 90°00' | |
| | | 17 | R | | 90°00' | |
| | | 18 | Y | | 90°00' | |
| | | 19 | B & W | 7:47 | 90°00' | |
| | | 20 | R | | 90°00' | |



76L298 307 10-51

PLEASE, RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

B.B. 450 Pg. 34 Job No. 842 Division No. Notes Red. Plotted Profile
Survey of Beach Erosion Control Works Date No. X-Sec.
Survey by F.H. Blanchard Notes Notes Chkd. Checked
Index C. Johnson Date Date Date No.

RANGE 584+00 N

5+45 to 7+05 N 215' OFF-SET

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 584+00 N |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | 21 | Y | | 90°00' | |
| | 22 | B&W | 7:51 | 90°00' | |
| | 23 | R | | 90°00' | |
| | 24 | Y | | 90°00' | |
| | 25 | B&W | | 89°36' | |
| | 26 | R | | 90°00' | |
| | 27 | Y | | 90°00' | |
| | 28 | B&W | 7:58 | 90°00' | |
| | 29 | R | | 90°00' | |
| | 30 | Y | | 90°00' | |
| | 31 | B&W | 8:00 | 90°00' | |
| | 32 | R | | 90°00' | |
| | 33 | Y | | 90°00' | |
| | 34 | B&W | 8:04 | 90°00' | |
| | 35 | R | | 90°00' | |
| | 36 | Y | | 89°20' | |
| | 37 | B&W | 8:09 | 90°00' | |
| | 38 | R | | 90°00' | |
| | 39 | Y | | 90°00' | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

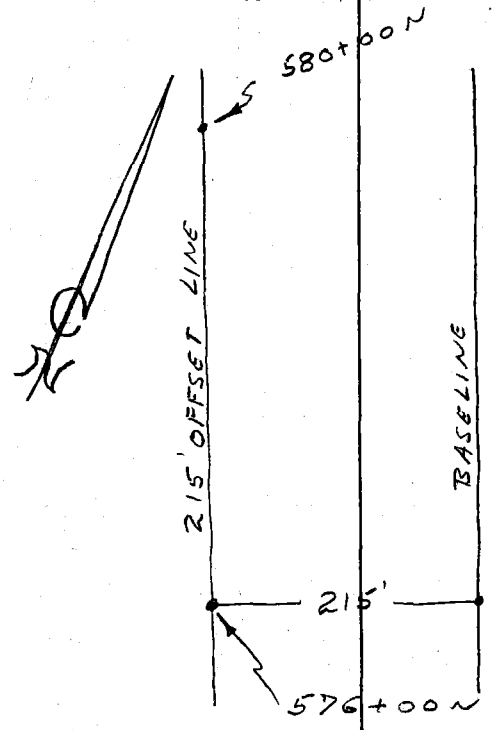
Profile No.____ Notes Red____ Plotted____ Job No. 59/2 Division No.____
X-Sec. No.____ Date____ Date____ Survey of F.T.D. BLANCHARD, L.M.V. Date 12-14-53
Notes Chkd____ Checked____ Survey by____ Indexed____
Date____ Date____ Map No.____ Date____

F.B. 1507 Pg. 135

CUT-IN 584+00N

| STATION At | STATION On | B. S. # | H. I. Color | F. S. Time | ELEV. Hor. Ang. |
|---|---|---|---|---|---|
| Inst. Sight | | | | | |
| 576+00N 215' OFFSET | 580+00N 215' OFFSET | 1 | B&W | 6:55 | 74°55' |
| | | 2 | R | | 74°01' |
| | | 3 | Y | | 73°01' |
| | | 4 | B&W | 7:01 | 71°57' |
| | | 5 | R | 7:20 | 69°25' |
| | | 6 | Y | | 67°54' |
| | | 7 | B&W | 7:23 | 66°01' |
| | | 8 | R | | 64°19' |
| | | 9 | Y | | 62°11' |
| | | 10 | B&W | 7:27 | 59°51' |
| | | 11 | R | | 57°19' |
| | | 12 | Y | | 55°02' |
| | | * 13 | B&W | 7:31 | 52°11' |
| | | 14 | R | | 49°42' |
| | | 15 | Y | | 48°31' |
| | | 16 | B&W | 7:36 | 45°43' |
| | | 17 | R | 7:47 | 35°08' |
| | | 18 | Y | | 52°27' |
| | | 19 | B&W | 7:50 | 49°41' |
| | | 20 | R | | 47°48' |

Remarks




Boat went back out.

CUT-IN 584+00N

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 136 Job No. Division No. Notes Red. Plotted No. Profile
Survey of F.C.D. PLANNING Date Date X-Sec.
Survey by Notes Notes Chkd. Checked
Indexed C. Johnson Date Date Date No.

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in 587+00N | 587+00N |
|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | | 21 | Y | | [illegible] | |
| | | 22 | B+W | 7:52 | 44° 34' | |
| | | 23 | R | | [illegible] | |
| | | 24 | Y | | 44° 15' | |
| | | * 25 | B+W | 7:57 | 41° 45' | |
| | | 26 | R | | [illegible] | |
| | | 27 | Y | | [illegible] | |
| | | 28 | B+W | 7:59 | 36° 16' | |
| | | 29 | R | | 34° 51' | |
| | | 30 | Y | | 32° 08' | |
| | | 31 | B+W | 8:01 | [illegible] | |
| | | 32 | R | | 29° 37' | |
| | | 33 | Y | | 28° 00' | |
| | | 34 | B+W | 8:05 | 23° 50' | |
| | | 35 | R | | 25° 12' | |
| | | * 36 | Y | | 23° 20' | |
| | | 37 | B+W | 8:10 | 22° 45' | |
| | | 38 | R | | 15° 52' | |
| | | 39 | Y | | 13° 36' | |

CUT-IN 587+00N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ Notes Red CEM Plotted ____ Job No. 242 Division No. ____ F.B. 1507 Pg. 137
X-Sec. No. ____ Date 1/18/54 Date ____ Survey of [illegible] Date 12-14-53
Notes Checked ____ Surveyed by H. BLANCHARD Notes P&S Date ____
Date 1-19-54 Date ____ Map No. ____ Plotted C. Johnson Date ____

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | | 5844 00 N |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | Adj. Depth | Remarks | |
| 1 B×W | 6:54 | 32.8 | 32.5 | 3.5 | 29.0 | 3183 | 2968 +215 |
| 2 R | | 32.6 | 32.1 | 3.5 | 28.6 | 3008 | 2793 |
| 3 Y | | 31.8 | 31.1 | 3.4 | 27.7 | 2834 | 2619 |
| 4 B×W | 7:00 | 30.8 | 30.0 | 3.4 | 26.6 | 2670 | 2455 SWEEP IN LINE |
| 5 R | 7:20 | 29.8 | 27.9 | 3.2 | 24.7 | 2345 | 2130 |
| 6 Y | | 27.5 | 26.1 | 3.1 | 23.0 | 2184 | 1969 |
| 7 B×W | 7:23 | 26.6 | 26.1 | 3.1 | 23.0 | 2013 | 1798 |
| 8 R | | 25.9 | 24.0 | 3.1 | 20.9 | 1878 | 1663 |
| 9 Y | | 24.2 | 23.4 | 3.1 | 20.3 | 1731 | 1516 |
| 10 B×W | 7:26 | 23.9 | 22.8 | 3.1 | 19.7 | 1592 | 1377 |
| 11 R | | 23.2 | 21.9 | 3.1 | 18.8 | 1511 | 1296 |
| 12 Y | | 22.4 | 20.9 | 3.0 | 17.9 | 1359 | 1144 |
| 13 B×W | 7:30 | 21.5 | 19.8 | 3.0 | 16.8 | 1241 | ~~1031~~ 1026 1032 on 1027 off |
| 14 R | | 20.5 | 17.7 | 3.0 | 14.7 | 1158 | 943 |
| 15 Y | | 20.7 | 18.1 | 3.0 | 15.1 | 1120 | 905 |
| 16 B×W | 7:35 | 19.3 | 15.9 | 2.9 | 13.0 | 1035 Corr'd 1363 | ~~820~~ Bottom 1148 |
| 17 R | 7:47 | 18.4 | 20.5 | 2.8 | 17.7 | Sweep IN | Stopped |
| 18 Y | | 17.9 | 19.1 | 2.8 | 16.3 | 1255 | 1040 |
| 19 B×W | 7:48 | 16.2 | 17.4 | 2.8 | 14.6 | 1158 | 943 |
| 20 R | | 15.8 | 17.3 | 2.8 | 14.5 | 1097 | 882 |

BOAT 5844 00 N

-5

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 138 Job No. 2442 Division No. Notes Rqd. CEM Plotted
Survey of BOAT SOUNDING TRAV Date 1/18/54 Date
Survey by E. H. BLANCHARD Notes Acc Notes Chkd. K.K. Checked
Indexed C. O. Job Date Date 1-22-54 Date
Profile No. X-Sec. No.

| STATION # | Color | B. S. Time | H. I. Depth | F. S. Bottom | ELEV. Tide | BOAT Adj. Depth | | Remarks 5 PM TO 8 AM |
|---|---|---|---|---|---|---|---|---|
| 21 | Y | | 12.7 15.5 12.3 | 16.4 | 2.8 | 13.6 | 1048 | 833 +215 |
| 22 | B&W | 7:50 | 15.6 | 16.1 | 2.8 | 13.3 | 1003 | 788 |
| 23 | R | | 15.5 14.8 | 14.7 | 2.7 | 12.0 | 965 | 751 |
| 24 | Y | | 13.1 16.0 | 16.4 | 2.7 | 13.7 | 994 | 779 |
| 25 | B&W | 7:52 | 14.4 13.5 | 13.7 | 2.7 | 11.0 | 924 709 ~~713~~ | 715 on 711 off -4 |
| 26 | R | | 13.0 11.8 | 12.2 | 2.7 | 9.5 | 870 | 655 |
| 27 | Y | | 13.0 11.7 | 12.1 | 2.7 | 9.4 | 834 | 619 |
| 28 | B&W | 7:58 | 11.1 10.0 | 10.4 | 2.7 | 7.7 | 802 | 587 |
| 29 | R | | 10.2 10.0 | 10.2 | 2.7 | 7.5 | 772 | 557 |
| 30 | Y | | 12.2 10.7 | 11.2 | 2.7 | 8.5 | 717 | 502 |
| 31 | B&W | 8:00 | 11.2 10.5 | 10.7 | 2.7 | 8.0 | 695 | 480 |
| 32 | R | | 11.0 10.2 | 10.5 | 2.6 | 7.9 | 670 | 455 |
| 33 | Y | | 10.0 9.0 | 9.3 | 2.6 | 6.7 | 655 | 440 |
| 34 | B&W | 8:04 | 10.3 9.8 | 9.9 | 2.6 | 7.3 | 655 | 440 |
| 35 | R | | 10.1 9.0 | 9.4 | 2.6 | 6.8 | 603 | 388 |
| 36 | Y | | 11.2 9.8 | 10.3 | 2.5 | 7.8 | 559 344 ~~345~~ | 349 on 348 off -1 |
| 37 | B&W | 8:09 | 11.0 10.0 | 10.3 | 2.5 | 7.8 | 550 | 335 |
| 38 | R | | 10.0 9.0 | 9.3 | 2.5 | 6.8 | 442 | 227 |
| 39 | Y | BOAT SOUNDING | 9.0 7.0 | 7.3 | 2.5 | 4.8 | 401 | 186 |

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

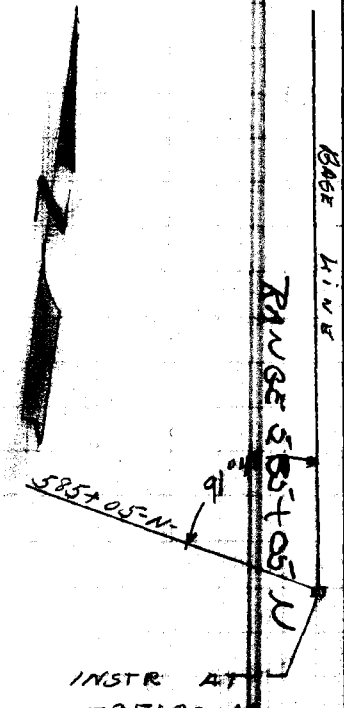
Profile
Notes Red _____ Plotted _____ Job No. 8412 Division No. _____
No. _____ Date _____ Date _____ Survey of _____
X-Sec. _____ Notes Chkd _____ Checked _____ Survey by _____
No. _____ Date _____ Date _____ Map No. _____

F.B. 1507 Pg. 139

| STATION | B. S. | H. I. | F. S. | ELEV. | Range | 585+05-N- |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B+W | 8:51 | 91° 48' | | |
| | 2 | R | | 91° 48' | | |
| | 3 | Y | | 91° 48' | | |
| | 4 | B+W | 8:53 | 91° 48' | | |
| | 5 | R | | 91° 48' | | |
| | 6 | Y | | 91° 48' | | |
| | 7 | B+W | 8:56 | 91° 48' | | |
| | 8 | R | | 91° 48' | | |
| | 9 | Y | | 91° 48' | | |
| | 10 | B+W | 8:58 | 91° 48' | | |
| | 11 | R | | 91° 58' | | |
| | 12 | Y | | 91° 48' | | |
| | 13 | B+W | 9:00 | 91° 48' | | |
| | 14 | R | | 91° 48' | | |
| | 15 | Y | | 91° 48' | | |
| | 16 | B+W | 9:04 | 91° 48' | | |
| | 17 | R | | 91° 48' | | |
| | 18 | Y | | 91° 48' | | |
| | 19 | B+W | 9:06 | 91° 48' | | |
| | 20 | R | | 91° 48' | | |

585+05 North - 300' BS.

585+05-N-



76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

F.B. 1507 Pg. 140 Job No. 842 Division No. Profile
Survey of Backbone Division Study No. X-Sec.
Survey by [illegible] Notes Red. Plotted
Indexed C. Johnson Date Notes Chkd. Date Checked Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 585705 N | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | 91° 48' | | |
| | 22 | B&W | 9:10 | 91° 48' | | |
| | 23 | R | | 91° 48' | | |
| | 24 | Y | | 91° 48' | | |
| | 25 | B&W | 9:13 | 91° 48' | | |
| | 26 | R | | 91° 48' | | |
| | 27 | Y | | 91° 48' | | |
| | 28 | B&W | 9:16 | 91° 48' | | |
| | 29 | R | | 91° 48' | | |
| | 30 | Y | | 91° 48' | | |
| | 31 | B&W | 9:20 | 91° 48' | | |
| | 32 | R | | 91° 48' | | |
| | 33 | Y | | 91° 48' | | |
| RANGE 585705N / 585705N | | | | | | |
| 190' W. off 585705N | | | | | | |
| 300' BS. | | | | | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

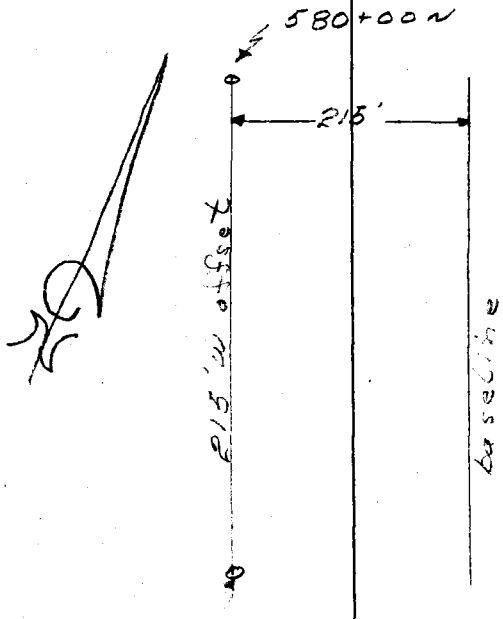
**Do not extend notes this side of this line.**

Profile Notes Red Plotted Job No. 5411 Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by
No. Date Date Map No. Traversed
F.B. 1507 Pg. 141

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. |
| | 1 | R&W | 8:51 | 72°36' |
| | 2 | R | | 71°50' |
| | 3 | Y | | 70°59' |
| | 4 | B&W | 8:54 | 70°04' |
| | 5 | R | | 69°07' |
| | 6 | Y | | 68°22' |
| | 7 | B&W | 8:56 | 67°25' |
| | 8 | R | | 66°13' |
| | 9 | Y | | 65°12' |
| | 10 | B&W | 8:58 | 63°45' |
| | * 11 | R | | 62°20' |
| | 12 | Y | | 61°09' |
| | 13 | B&W | 9:01 | 60°09' |
| | 14 | R | | 57°59' |
| | 15 | Y | | 55°56' |
| | 16 | B&W | 9:04 | 54°38' |
| | 17 | R | | 54°41' |
| | 18 | Y | | 52°35' |
| | 19 | B&W | 9:08 | 50°55' |
| | 20 | R | | 49°53' |

Cut 5-L7 535+05 N

Remarks




Cut-in 535+05 N

76L298 30M 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 142 Job No. Division No. Notes Red. Plotted Profile
Survey of T. H. Date Date No. X-Sec.
Survey by C. Johnson Notes Chkd. Checked
Indexed Notes Date Date Date No.

| STATION | B. S. | H. I. | F. S. | ELEV. | Cot-1N 595405.N | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | L | | 7°39' | | |
| | 22 | B+W | 9:11 | 45°47' | | |
| | 23 | R | | 79°38' | | |
| | 24 | | | 16° | | |
| | 25 | B+W | 9:14 | 39°44' | | |
| | 26 | R | | 31°24' | | |
| | 27 | Y | | 31°24' | | |
| | 28 | B+W | 9:17 | 81°29' | | |
| | 29 | R | | 23°0' | | |
| | 30 | Y | | 85°19' | | |
| | 31 | B+W | 9:20 | 21°42' | | |
| | 32 | R | | 24°0' | | |
| | 33 | Y | | 17°44' | | |

COT-1N 585405N

76L298 907 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | Boat | 5857.05N |
|---|---|---|---|---|---|---|
| # Color | Time | Depth | Bottom | Tide | Adj. Depth | Remarks |
| 1 BxW | 8:50 | 31.5 | 31.3 | 2.2 | 29.1 | 2810 |
| 2 R | | 31.0 | 30.8 | 2.2 | 28.6 | 2700 |
| 3 Y | | 30.0 | 29.8 | 2.1 | 27.7 | 2594 |
| 4 BxW | 8:53 | 29.1 | 29.0 | 2.1 | 26.9 | 2495 |
| 5 R | | 26.7 | 26.9 | 2.1 | 24.8 | 2418 |
| 6 Y | | 28.5 | 27.9 | 2.1 | 25.8 | 2310 |
| 7 BxW | 8:56 | 26.3 | 26.2 | 2.1 | 24.1 | 2215 |
| 8 R | | 25.0 | 25.2 | 2.1 | 23.1 | 2116 |
| 9 Y | | 24.8 | 24.7 | 2.1 | 22.6 | 2032 |
| 10 BxW | 8:58 | 24.4 | 24.1 | 2.1 | 22.0 | 1926 |
| 11 R | | 22.1 | 22.4 | 2.1 | 20.3 | 1814 |
| 12 Y | | 22.0 | 22.3 | 2.1 | 20.2 | 1760 |
| 13 BxW | 9:01 | 23.8 | 22.3 | 2.1 | 20.2 | 1699 |
| 14 R | | 21.6 | 21.2 | 2.1 | 19.1 | 1584 |
| 15 Y | | 21.5 | 20.7 | 2.1 | 18.6 | 1490 |
| 16 BxW | 9:03 | 20.9 | 20.3 | 2.1 | 18.2 | 1429 |
| 17 R | | 20.6 | 20.1 | 2.1 | 18.0 | 1430 |
| 18 Y | | 19.9 | 19.3 | 2.0 | 17.3 | 1345 |
| 19 BxW | 9:07 | 18.9 | 18.8 | 2.0 | 16.8 | 1280 |
| 20 R | | 18.5 | 18.3 | 2.0 | 16.3 | 1245 |

Boat 5857.05N

Profile
No. X-Sec.
Notes Red. CEM Plotted
Date 1/18/54 Date Job No. 2442 Division No.
Notes Chkd. KK Checked Survey of B. BLANCHARD & R.C. Date 12-14-53
Date 1-22-54 Date Surveyed by Notes by
Map No. Indexed Date
F.B. 1507 Pg. 143

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1870 7 PG. 144

Job No. 8412 Division No. Notes Red. CEM Plotted
Survey of BEACH EROSION STUDY Date 1/18/54 No. Profile
Survey by E.H. BLANCHARD Notes Chkd. A.C. Date 1-22-54 Checked
Indexed C. Johnson Date Date No. X-Sec.

BOAT 1857.05N / 6032

| STATION # | Color | B. S. Time | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | BOAT Adj. Depth | 5857.05N Remarks |
|---|---|---|---|---|---|---|---|
| 21 | Y | | 18.0 17.0 16.8 | 17.3 | 2.0 | 15.3 | 1170 OFF CENTER LINE |
| 22 | BxW | 9:10 | 16.0 16.8 | 16.3 | 2.0 | 14.3 | 1110 OF GROIN |
| 23 | R | | 15.5 15.1 | 15.9 | 2.0 | 13.9 | 1056 |
| 24 | Y | | 14.8 14.5 | 14.9 | 2.0 | 12.9 | 997 |
| 25 | BxW | 9:13 | 13.9 14.0 | 14.1 | 2.0 | 12.1 | 943 |
| 26 | R | | 13.1 13.0 | 13.4 | 2.0 | 11.4 | 889 |
| 27 | Y | | 11.0 11.2 | 11.7 | 2.0 | 9.7 | 817 |
| 28 | BxW | 9:16 | 8.8 10.0 | 8.7 | 2.0 | 6.7 | 758 |
| 29 | R | | 8.8 9.8 | 9.2 | 2.0 | 7.2 | 690 |
| 30 | Y | | 9.0 10.0 | 9.3 | 2.0 | 7.3 | 633 |
| 31 | BxW | 9:19 | 9.2 9.7 | 9.5 | 2.0 | 7.5 | 590 |
| 32 | R | | 8.7 8.2 | 8.9 | 2.0 | 6.9 | 539 |
| 33 | Y | | 7.7 | 7.9 | 2.0 | 5.9 | 500 |

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

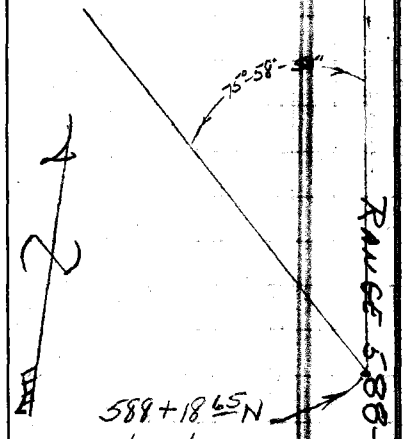
**Do not extend notes this side of this line.**

Profile No.____ Notes Red____ Plotted____ Job No. 3412 Division No.____ F.B. 1507 Pg. 105
X-Sec. No.____ Date____ Date____ Survey of Range Ave. Bet. Mon. No. 54 & Mon. No. 55
Notes Chkd.____ Checked____ Survey by H. E. R. Date 12-14-53
Date____ Date____ Map No.____ Mapped by Johnson

| STATION | B. S. | H. I. | F. S. | ELEV. | Range | 588+18.65 N |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B&W | 9:35 | 75°58'50" | | |
| | 2 | R | | 75°58'50" | | |
| | 3 | Y | | 75°58'50" | | |
| | 4 | B&W | 9:39 | 75°58'50" | | |
| | 5 | R | | 75°58'50" | | |
| | 6 | Y | | 75°58'50" | | |
| | 7 | B&W | 9:42 | 75°58'50" | | |
| | 8 | R | | 75°58'50" | | |
| | 9 | Y | | 75°58'50" | | |
| | 10 | B&W | 9:46 | 75°58'50" | | |
| | 11 | R | | 75°58'50" | | |
| | 12 | Y | | 75°58'50" | | |
| | 13 | B&W | 9:50 | 75°58'50" | | |
| | 14 | R | | 75°58'50" | | |
| | 15 | Y | | 75°58'50" | | |
| | 16 | B&W | 9:55 | 75°58'50" | | |
| | 17 | R | | 75°58'50" | | |
| | 18 | Y | | 75°58'50" | | |
| | 19 | B&W | 9:59 | 75°58'50" | | |
| | 20 | R | | 75°58'50" | | |

N 588+18.65

B.S. 216, Mon. N54



F.B. 1507 Pg 146 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date | Date | No.

Survey by F. H. BLANCHARD | Notes | Notes Chkd. | Checked | X-Sec.

Indexed [redacted] C. Tabulated | Date | Date | Date | No.

RANGE 588+18.65 N
5-88+18.65 N

B.S. 216' Mon. N54

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight | # | Color | Time | Hor. Ang. | |
| Ft | 21 | Y | | | |
| | 22 | Blu | 10:01 | 75°58'50" | |
| | | R | | | |
| | 23 | | | | |
| | 24 | Y | | | |
| | 25 | Blu | 10:04 | 75°58'50" | |
| | | R | | | |
| | 26 | Y | | | |
| | 27 | | | | |
| | 28 | Blu | 10:09 | 75°58'50" | |

Range

588+18.65 N

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L298 307 10-51

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

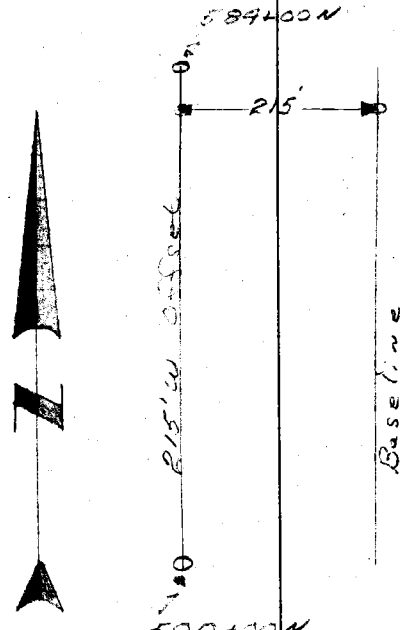
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red Plotted Job No. 8412 Division No. F.B. 14507 Pg. 197
No. Date Survey of [illegible] Date
X-Sec. Notes Chkd Checked Survey by [illegible] Date 12-14-52
No. Date Date Map No. Checked By [illegible] Date

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. |
| | 1 | B+W | 9:35 | 76°39' |
| | 2 | R | | 75°56' |
| | 3 | Y | | 75°08' |
| | 4 | B+W | 9:39 | 74°29' |
| | 5 | R | | 73°40' |
| | 6 | Y | | 72°53' |
| | 7 | B+W | 9:42 | 72°38' |
| | 8 | R | | 72°01' |
| | 9 | Y | | 72°07' |
| | 10 | B+W | 9:47 | 70°38' |
| | 11 | R | | 68°47' |
| | 12 | Y | | 67°49' |
| | 13 | B+W | 9:51 | 66°20' |
| | 14 | R | | 65°15' |
| | 15 | Y | | 63°50' |
| | 16 | B+W | 9:56 | 61°12' |
| | 17 | R | | 57°53' |
| | 18 | Y | | 56°31' |
| | 19 | B+W | 10:00 | 53°15' |
| | 20 | R | | 51°03' |

Cut-in 588+18 65 N




CUT-IN 588+18 65 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 148 Job No. 8412 Division No. Notes Red Plotted
Survey of BEACH EROSION STUDIES Date Date No.
Survey by C. Johnson Notes Notes Chkd Checked
Indexed C. Johnson Date Date Date No.
Profile X-Sec.

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut in 588+18 E/N | |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | 47°07' | | |
| | 22 | B+W | 10:02 | 1[illegible]°21' | | |
| | 23 | R | | [illegible] | | |
| | 24 | Y | | [illegible] | | |
| | 25 | B+W | 10:05 | 34°57' | | |
| | 26 | R | | [illegible] | | |
| | 27 | Y | | [illegible] | | |
| | 28 | B+W | 10:09 | [illegible] | | |

Cut in 588+18 E/N
560+00 N 215' OFFSET
584+00 N 215' OFFSET

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT 588+18.65N | | |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas Depth | Bottom | Tide | Adj. Depth | Remarks | |
| 1 B x W | 9:34 | 29.8 29.0 | 29.3 | 1.9 | 27.4 | 2860 | |
| 2 R | | 27.8 27.7 | 27.3 | 1.9 | 25.4 | 2762 | |
| 3 Y | | 26.8 27.8 | 27.1 | 1.9 | 25.2 | 2630 | |
| 4 B x W | 9:37 | 26.0 28.5 | 26.4 | 1.9 | 24.5 | 2542 | |
| 5 R | | 27.7 26.5 | 28.0 | 1.9 | 26.1 | 2447 | |
| 6 Y | | 25.7 26.8 | 26.0 | 1.9 | 24.1 | 2370 | |
| 7 B x W | 9:41 | 26.6 26.6 | 25.8 | 1.9 | 23.9 | 2322 | Rocky Bottom |
| 8 R | | 26.7 26.0 | 26.2 | 1.9 | 24.3 | 2268 | |
| 9 Y | | 24.0 25.6 | 26.2 | 1.8 | 24.4 | 2274 | |
| 10 B x W | 9:45 | 29.3 23.2 | 23.7 | 1.8 | 21.9 | 2131 | |
| 11 R | | 23.0 23.0 | 23.2 | 1.8 | 21.4 | 1980 | |
| 12 Y | | 22.6 22.9 | 22.7 | 1.8 | 20.9 | 1906 | |
| 13 B x W | 9:50 | 21.4 21.4 | 21.6 | 1.8 | 19.8 | 1807 | |
| 14 R | | 20.8 20.8 | 21.0 | 1.8 | 19.2 | 1730 | |
| 15 Y | | 20.0 20.1 | 20.3 | 1.8 | 18.5 | 1652 | |
| 16 B x W | 9:54 | 17.3 18.9 | 18.2 | 1.8 | 16.4 | 1520 | |
| 17 R | | 18.8 18.0 | 18.6 | 1.8 | 16.8 | 1371 | |
| 18 Y | | 18.0 18.9 | 18.3 | 1.8 | 16.5 | 1320 | |
| 19 B x W | 9:59 | 17.7 17.1 | 17.3 | 1.8 | 15.5 | 1202 | |
| 20 R | | 15.1 15.3 | 15.6 | 1.8 | 13.8 | 1132 | |

BOAT 588+18.65N

Profile
Notes Red CEM Plotted Job No. 2412 Division No.
No. Date 1/18/54 Date Survey of BLANCHARD Notes AS Date 12-14-53
X-Sec. Notes Chkd KK Checked Survey by C. Johnson
No. Date 1-25-54 Date Map No. Index No. Date

F.B. 1507 PG. 199

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg 50 | Job No. 4412 | Division No. 4 1/2 | Profile | No. | X-Sec. | No.

Survey of [illegible] EAST 5788+18.65N

Survey by E. H. BLANCHARD Notes Chkd. A.C. Date 1-22-54 Checked A.C.T.

Indexed C. Johnson Date [illegible] Notes Rcd. CEM Date 1/18/54 Platted [illegible] Date [illegible]

BOAT

| STATION | | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|---|
| # | Color | Time | Meas Depth | Bottom | Tide | Adj. Depth | Remarks |
| 21 | Y | | 15.7 / 14.0 | 14.6 | 1.8 | 12.8 | 1021 |
| 22 | B x W | 10:01 | 15.6 / 13.9 | 14.3 | 1.8 | 12.5 | 930 |
| 23 | R | | 13.0 / 11.9 | 12.3 | 1.8 | 10.5 | 843 |
| 24 | Y | | 14.0 / 12.1 | 12.7 | 1.8 | 10.9 | 773 |
| 25 | B x W | 10:04 | 12.0 / 11.0 | 11.3 | 1.8 | 9.5 | 734 |
| 26 | R | | 9.8 / 9.0 | 9.3 | 1.8 | 7.5 | 650 |
| 27 | Y | | 10.5 / 9.5 | 10.0 | 1.8 | 8.2 | 584 |
| 28 | B x W | 10:08 | 6.8 / 6.8 | 6.3 | 1.8 | 4.5 | 530 |

BOAT 5788+18.65N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

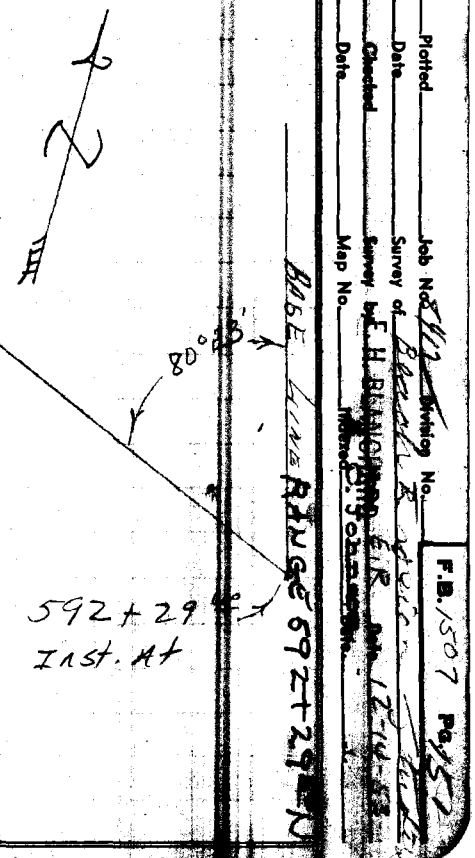
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile No.____ Notes Red____ Plotted____ Job No. 4422 Drawing No.____
X-Sec. No.____ Date____ Date____ Survey of Rancho L.R.
Notes Chkd.____ Checked____ Survey by F. H. Blanchard & R. Date 12-14-53
Date____ Date____ Map No.____ Inked____ Checked____

F.B. 1507 Pg. 57

| STATION | B. S. | H. I. | F. S. | ELEV. | Ranga 592+29.60 N | |
|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| 592+29.60 N | 1 N 59°41'00" E | 1 | B&W | 10:48 | 80°23' | |
| | | 2 | R | | 80°23' | |
| | | 3 | Y | | 80°23' | |
| | | 4 | B&W | 10:53 | 80°23' | |
| | | 5 | R | | 80°23' | |
| | | 6 | Y | | 80°23' | |
| | | 7 | B&W | 10:57 | 80°23' | |
| | | 8 | R | | 80°23' | |
| | | 9 | Y | | 80°23' | |
| | | 10 | B&W | 11:00 | 80°23' | |
| | | 11 | R | | 80°23' | |
| | | 12 | Y | | 80°23' | |
| | | 13 | B&W | 11:04 | 80°23' | |
| | | 14 | R | | 80°23' | |
| | | 15 | Y | | 80°23' | |
| | | 16 | B&W | 11:08 | 80°23' | |
| | | 17 | R | | 80°23' | |



76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile

Survey of Bandini Crossings Studies Job No. 8412 Division No. Notes Red. Plotted

Survey by E.H. BLANCHARD Notes Pattern Date Notes Chkd. Date Checked

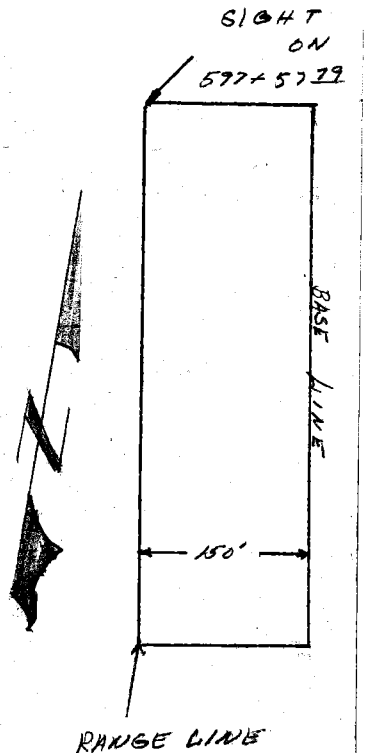
Indexed C. Johnson Date Date

Range 594+00 -N-

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | |
| | 1. | B+W | 11:26 | 90°00' | |
| | 2. | R | | 90°00' | |
| | 3. | Y | | 90°00' | |
| | 4. | B+W | 11:30 | 90°00' | |
| | 5 | R | | 90°00' | |
| | 6 | Y | | 90°00' | |
| | 7 | B+W | 11:33 | 90°00' | |
| | 8 | R | | 90°00' | |
| | 9 | Y | | 90°00' | |
| | 10 | B+W | 11:35 | 90°00' | |
| | 11 | R | | 90°00' | |
| | 12 | Y | | 90°00' | |
| | 13 | B+W | 11:37 | 90°00' | |
| | 14 | R | | 90°00' | |
| | 15 | Y | | 90°00' | |
| | 16 | B+W | 11:42 | 90°00' | |
| | 17 | R | | 90°00' | |

RANGE 594+00 N

3 577



76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

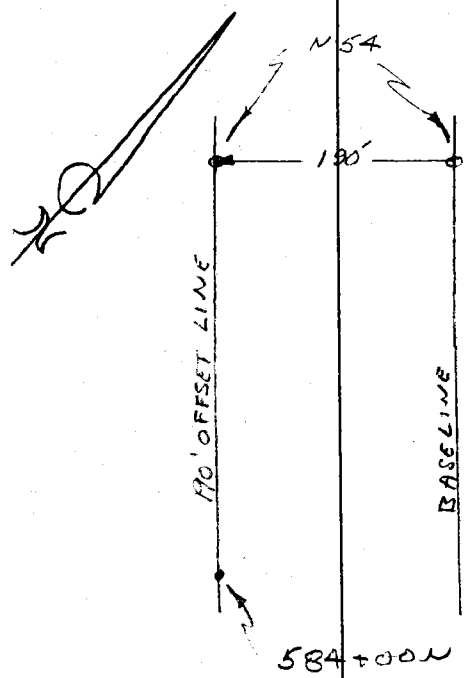
**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED IK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No. 8112 Division No.____ F.B. 1507 Pg. 153
No.____ Date____ Date____ Survey of____
X-Sec. Notes Chkd____ Checked____ Survey by____ Notes D.K.S. Date 12-14-52
No.____ Date____ Date____ Map No.____ Notes C. Johnson Date____

Cut-in 592+29.60 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in | 592+29.60 N |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B&W | 10:49 | 80°29' | | |
| | 2 | R | | 78°57' | | |
| | 3 | Y | | 77°03' | | |
| | 4 | B&W | 10:53 | 75°21' | | |
| | 5 | R | | 73°45' | | |
| | 6 | Y | | 71°35' | | |
| | 7 | B&W | 10:58 | 69°21' | | |
| | 8 | R | | 66°30' | | |
| | 9 | Y | | 62°38' | | |
| | 10 | B&W | 11:01 | 59°17' | | |
| | 11 | R | | 54°24' | | |
| | 12 | Y | | 49°01' | | |
| | 13 | B&W | 11:05 | 43°44' | | |
| | 14 | R | | 39°04' | | |
| | 15 | Y | | 34°10' | | |
| | 16 | B&W | 11:09 | 28°48' | | |
| | 17 | R | | 24°54' | | |
| | 18 | Y | | | | |
| | 19 | B&W | | | | |
| | 20 | R | | | | |



F.B. 1507 PG. 154 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

Survey by | Notes 045 | Notes Chkd. | Checked | X-Sec.

Indexed [redacted] C. Tah[redacted] Date 12-14-53 | Date | Date | No.

CUT-IN 594+00 N

584+30 N 190' W offset

588+18 65 N

N 54

190' W offset

| STATION | B.S. | H.I. | F.S. | ELEV. | Hor. Ang. | Time | Color | # | Ipt. Sight On | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. CEM Plotted Job No. 8412 Division No.
No. Date 1/18/54 Date Survey of
X-Sec. Notes Chkd. Checked Survey by BLANCHARD Notes BS Date 12-14-53
No. Date 1-22-54 Date Map No. Recrd. Johnson Date

F. B. 1507 Pg. 155

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT 592+27.60 N | | |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | Adj. Depth | Remarks | |
| 1 BWR | 10:47 | 27.8 26.4 | 26.9 | 1.8 | 25.1 | 2610 | |
| 2 R | | 26.4 27.2 | 27.6 | 1.8 | 25.8 | 2420 | |
| 3 Y | | 26.8 25.6 | 26.0 | 1.8 | 24.2 | 2210 | |
| 4 BWR | 10:52 | 24.8 23.4 | 23.9 | 1.8 | 22.1 | 2049 | |
| 5 R | | 23.6 22.8 | 23.1 | 1.8 | 21.3 | 1910 | |
| 6 Y | | 22.3 21.7 | 21.9 | 1.9 | 20.0 | 1750 | Rocky Bottom |
| 7 BWR | 10:56 | 21.4 20.8 | 21.0 | 1.9 | 19.1 | 1611 | |
| 8 R | | 20.3 19.9 | 20.0 | 1.9 | 18.1 | 1460 | |
| 9 Y | | 19.8 18.3 | 18.8 | 1.9 | 16.9 | 1300 | |
| 10 BWR | 11:00 | 18.2 17.7 | 17.9 | 1.9 | 16.0 | 1160 | |
| 11 R | | 17.3 16.2 | 16.7 | 1.9 | 14.8 | 1006 | |
| 12 Y | | 16.2 13.4 | 13.7 | 1.9 | 11.8 | 865 | |
| 13 BWR | 11:04 | 13.3 12.7 | 12.9 | 1.9 | 11.0 | 741 | |
| 14 R | | 11.2 10.6 | 10.6 | 1.9 | 8.7 | 652 | |
| 15 Y | | 9.6 8.2 | 8.7 | 1.9 | 6.8 | 567 | |
| 16 BWR | 11:07 | 9.5 8.5 | 8.8 | 1.9 | 6.9 | 480 | |
| 17 R | | 5.7 4.9 | 5.2 | 1.9 | 3.3 | 420 | |
| 18 Y | | | | | | | |
| 19 BWR | 11: | | | | | | |
| 20 R | | | | | | | |

BOAT 592+29 E

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

F. B. 1587 Pg. 58 Job No. 2312 Division No. Notes Red. CEM Plotted
Survey of BEACH EROSION STUDY Date 1/18/54 Date
Survey by L. BLANCHARD Notes K Notes Chkd. KK Checked
Indexed L. PEARSON Date Date 1-22-54 Date
Profile No. X-Sec. No.

| STATION | B. S. | H. I. | F. S. | ELEV. | 5944000N | BOAT |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom Tide | | Adj. Depth | Remarks |
| 1 BW | 11 25 | 26.8 25.6 | 26.0 | 2.6 | 24.0 | 2169 2108 |
| 2 R | | 23.7 23.0 | 23.0 | 2.0 | 21.0 | 1924 1875 |
| 3 Y | | 23.7 23.9 | 23.0 | 2.0 | 21.0 | 1753 1713 |
| 4 BW | 11 30 | 22.2 21.8 | 21.9 | 2.0 | 19.9 | 1621 1587 |
| 5 R | | 21.6 20.8 | 21.1 | 2.0 | 19.1 | 1517 1486 |
| 6 Y | | 21.3 20.1 | 21.0 | 2.0 | 19.0 | 1416 1390 |
| 7 BW | 11 32 | 19.8 19.8 | 19.8 | 2.0 | 17.8 | 1289 ? 1266 ? |
| 8 R | | 18.3 17.8 | 18.0 | 2.0 | 16.0 | 1185 1163 |
| 9 Y | | 16.8 17.0 | 17.1 | 2.0 | 15.1 | 1061 1043 |
| 10 BW | 11 34 | 16.4 16.9 | 16.6 | 2.0 | 14.6 | 970 954 |
| 11 R | | 14.9 14.2 | 14.4 | 2.0 | 12.4 | 870 851 |
| 12 Y | | 13.6 13.7 | 14.1 | 2.0 | 12.1 | 793 782 |
| 13 BW | 11 38 | 12.1 12.3 | 12.5 | 2.0 | 10.5 | 715 703 |
| 14 R | | 11.8 10.4 | 12.0 | 2.1 | 9.9 | 636 625 |
| 15 | | 9.6 9.8 | 9.9 | 2.1 | 7.8 | 554 542 |
| 16 BW | 11 41 | 8.8 8.5 | 8.9 | 2.1 | 6.8 | 479 471 |
| 17 | | 7.5 6.3 | 6.3 | 2.1 | 4.2 | 408 402 |
| 18 | | | | | | |
| 19 BW | | | | | | |
| 20 R | | | | | | |

BOAT 5944000N

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. Division No.
No. Date Date Survey of
X.Sec. Notes Chkd. Checked Survey by H. H. BLANCHARD, E.E. Date
No. Date Date Map No. Checked Date

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight At On | | # Color | Time | Hor. Ang. |
| | | 1 B&W | 11 57 | 81°59'20" |
| | | 2 R | | " |
| | | 3 Y | | " |
| | | 4 B&W | 12 00 | " |
| | | 5 R | | " |
| | | 6 Y | | " |
| | | 7 B&W | 12 02 | " |
| | | 8 R | | " |
| | | 9 Y | | " |
| | | 10 B&W | 12 04 | 81°59'20" |
| | | 11 R | | " |
| | | 12 Y | | " |
| | | 13 B&W | 12:07 | " |
| | | 14 R | | " |
| | | 15 Y | | " |
| | | 16 B&W | 12:09 | " |
| | | 17 R | | 81°59'20" |

597+36.68 N

597+36.68 N OFFSET

Inst. Sight On 300 Offset

597+36.68 N

INST. HERE

81°59'20"

597+36.68

151.48

150' offset N

Bridge

RANGE 597+36.68 N

692+29.60

F. B. 1507 Pg. 307

76L298 307 4-50

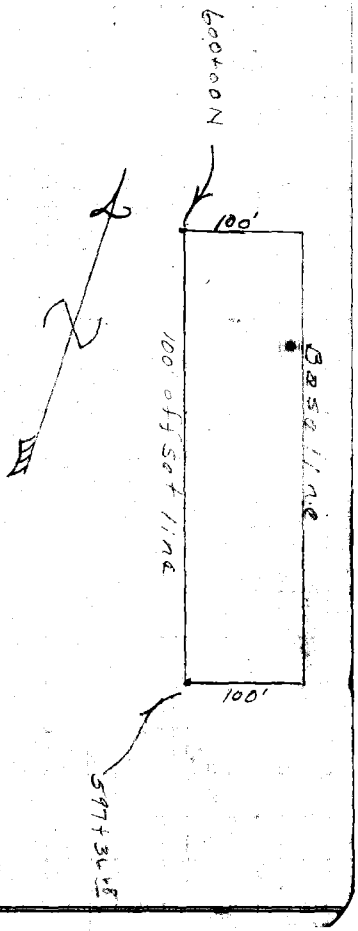
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile ____ Plotted ____ Notes Red. ____ Job No. 8412 Division No. ____ Notes ____
X-Sec. ____ No. ____ Date ____ Date ____ Checked ____ Notes Chkd ____ Date ____ Date ____
Survey of Beach Erosion Studies U.C.S.G.
Survey by [redacted] Notes U.C.S.G. Date ____
Indexed ____ Date ____

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 90 | 600+00 N |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B&W | 12:24 | 90° 00' | | |
| | 2 | R | | 90° 00' | | |
| | 3 | Y | | 90° 00' | | |
| | 4 | B&W | 12:27 | 90° 00' | | |
| | 5 | R | | 90° 00' | | |
| | 6 | Y | | 90° 00' | | |
| | 7 | B&W | 12:30 | 90° 00' | | |
| | 8 | R | | 90° 00' | | |
| | 9 | Y | | 90° 00' | | |
| | 10 | B&W | 12:33 | 90° 00' | | |
| | 11 | R | | 90° 00' | | |
| | 12 | Y | | 91° 22' | | |
| | 13 | B&W | 12:36 | 90° 00' | | |
| | 14 | R | | 90° 00' | | |
| | 15 | Y | | 90° 00' | | |
| | 16 | B&W | 12:40 | 90° 00' | | |
| | 17 | R | | 90° 00' | | |
| RANGE 600+00 N 600+00 N 100' W off. 597+36.48 100' W off. | | | | | | |



76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

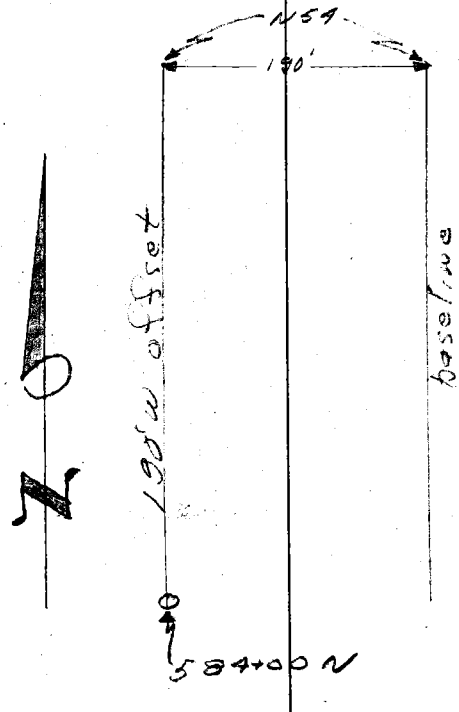
**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No. 8442 Division No.____ F.B. 1507 Pg. 157
No.____ Date____ Date____ Survey of DKS Date____
X-Sec. Notes Chkd____ Checked____ Survey by____ Night DKS Date 12-14-58
No.____ Date____ Date____ Map No.____ Inst. No. D. Johnson

Cut-in 597+36.8 N

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight On | # | Color | Time | Hor. Ang. |
| | 1 | B-W | 11:57 | 69°30' |
| | 2 | R | | |
| | 3 | Y | | 63°35' |
| | 4 | B-W | 12:00 | 51°01' |
| | 5 | R | | 38°12' |
| | 6 | Y | | 55°03' |
| | 7 | B-W | 12:02 | 52°57' |
| | 8 | R | | 50°05' |
| | 9 | Y | | 46°33' |
| | 10 | B+W | 12:05 | 42°41' |
| | 11 | R | | 39°36' |
| | 12 | Y | | 37°29' |
| | 13 | B+W | 12:07 | 34°29' |
| | 14 | R | | 32°00' |
| | 15 | Y | | 28°57' |
| | 16 | B+W | 12:10 | 25°05' |
| | 17 | R | | 22°23' |
| | 18 | Y | | |
| | 19 | B+W | | |
| | 20 | R | | |

Remarks




588+00 N
581+88 N
N 5 E

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

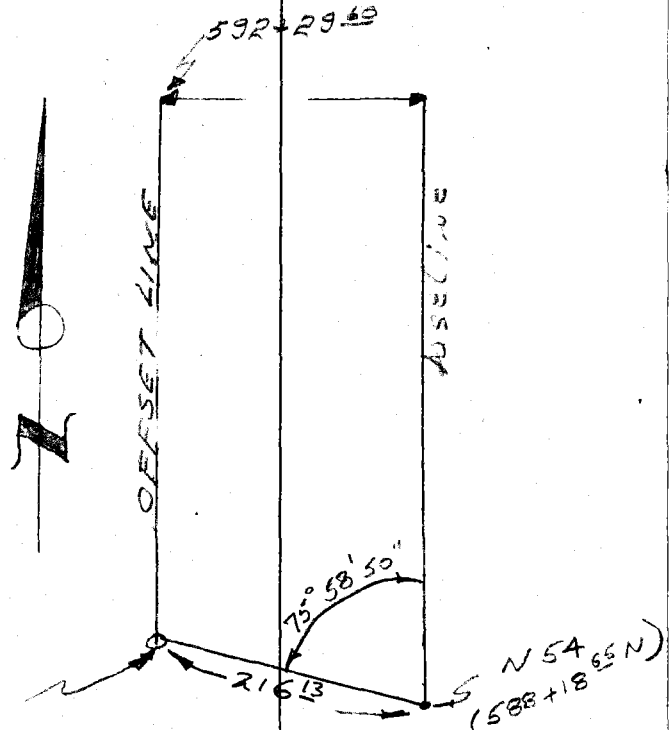
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 160 Job No. 8412 Division No. Notes Red. Date Platted
Survey of Bonita Estates Date
Survey by F.H. Blanchard Notes Chkd. Date Checked
Index C. Tahmassebi Date 12-14-53 Date

Profile No.
X-Sec. No.

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in 600+00 N |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| CUT-IN 600+00 N | 1 | BLK | 12:24 | 0° 17' | |
| | 2 | R | | 43° 20' | |
| | 3 | Y | | 47° 24' | |
| | 4 | BLK | 12:27 | 4° 37' | |
| | 5 | R | | 42° 22' | |
| | 6 | Y | | 5° 23' | |
| | 7 | BLK | 12:30 | 9° 5' | |
| | 8 | R | | 31° 20' | |
| | 9 | Y | | 22° 15' | |
| | 10 | BLK | 12:34 | 25° 39' | |
| | 11 | R | | 22° 31' | |
| | 12 | Y | | 19° 03' | |
| | 13 | BLK | 12:36 | 16° 01' | |
| | 14 | R | | 18° 11' | |
| | 15 | Y | | 9° 13' | |
| | 16 | BLK | 12:40 | 7° 19' | |
| | 17 | R | | | |
| | 18 | Y | | | |
| | 19 | BLK | | | |
| | 20 | R | | | |



December 15, 1953

| | |
|---|---|
| Notes Ck'd by | Survey of |
| Map No. | W. O. Tape No. St'd. °F |
| Office Work | Surveyed by |
| Checked | Notes Date |
| Date | Indexed |

F. B. 1509 Pg.

6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 1.0

12:30
12:00
11:30
11:00
10:30
10:00
9:30
9:00
8:30
8:00
7:30
7:00
6:30
6:00

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3008 247 4-53

F. B. 1507 PG.

December 16, 1953

6.0 5.5 5.0 4.5 4.0 3.5 3.0 2.5 2.0 1.5 0.1

11:00
10:30
10:00
9:30
9:00
8:30
8:00
7:30
7:00
6:30
6:00

RETURN TO
LOS ANGELES COUNTY SURVEYOR
720 LOS ANGELES COUNTY
ENGINEERING BLDG.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. CEM Plotted Job No. 8412 Division No.
No. Date 1/18/54 Date Survey of Entrance Channel Date
X-Sec. Notes Chkd. Date Checked Survey by BLANCHARD & Notes K Date 12-14-53
No. Date 1-22-54 Date Map No. Indexed Johnson Date

F.B. 1507 Pg 16

| STATION | B. S. | H. I. | F. S. | ELEV. | 597+36.6 SN | BOAT |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom Tide | | Adj. Depth | Remarks |
| 1 BW | 11:56 | 28.8 | 26.7 | 2.2 | 24.5 | 2052 |
| 2 R | | 26.5 | 25.6 | 2.2 | 23.4 | 1920 |
| 3 Y | | 25.2 | 24.4 | 2.2 | 22.2 | 1760 |
| 4 BW | 11:58 | 24.0 | 24.2 | 2.2 | 22.0 | 1621 |
| 5 R | | 22.7 | 22.3 | 2.2 | 20.1 | 1482 |
| 6 Y | | 21.5 | 21.9 | 2.2 | 19.7 | 1377 |
| 7 BW | 12:01 | 20.7 | 20.5 | 2.2 | 18.3 | 1255 |
| 8 R | | 19.8 | 19.9 | 2.2 | 17.7 | 1149 |
| 9 Y | | 18.0 | 18.3 | 2.2 | 16.1 | 1027 |
| 10 BW | 12:04 | 17.1 | 17.9 | 2.2 | 15.7 | 910 |
| 11 R | | 15.8 | 16.0 | 2.2 | 13.8 | 816 |
| 12 Y | | 14.2 | 14.2 | 2.2 | 12.0 | 760 |
| 13 BW | 12:06 | 11.9 | 12.2 | 2.2 | 10.0 | 671 |
| 14 R | | 10.7 | 10.8 | 2.2 | 8.6 | 614 |
| 15 Y | | 9.2 | 9.2 | 2.2 | 7.0 | 539 |
| 16 BW | 12:09 | 6.9 | 6.9 | 2.3 | 4.6 | 443 |
| 17 R | | 5.7 | 5.7 | 2.3 | 3.4 | 381 |
| 18 Y | | | | | | |
| 19 BW | | | | | | |
| 20 R | | | | | | |

BOAT 597+36 SN

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1587 Pg. 162 Job No. 8342 Division No. Notes Red. CEM Plotted No. Profile
Survey of BERSO EROSION STUDY Date 1/18/54 Date No. X-Sec.
Survey by BLANCHARD Notes A Notes Chkd. Checked
Indexed LC Tabulated Date Date 1-22-54 Date No.

| STATION | B. S. | H. I. | F. S. | ELEV. | Eroded | B. M. |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom Tide | Adj. Depth | Remarks | |
| 1 BW | 12:27 | 27 | 28.3 | 2.4 | 25.9 | 1614 1514 +100 |
| 2 R | | 29 | 26.4 | 2.4 | 24.0 | 1525 1425 |
| 3 Y | | 26.2 | 25.2 | 2.4 | 22.8 | 1421 1321 |
| 4 BW | 12:26 | 25.0 | 24.8 | 2.4 | 22.4 | 1320 1220 |
| 5 R | | 24.8 | 24.0 | 2.4 | 21.6 | 1237 1137 |
| 6 Y | | 24.1 | 22.7 | 2.4 | 20.3 | 1141 1041 |
| 7 BW | 12:30 | 23.9 | 21.5 | 2.4 | 19.1 | 1069 969 |
| 8 R | | 23.6 | 20.3 | 2.4 | 17.9 | 996 896 |
| 9 Y | | 20.1 | 18.5 | 2.4 | 16.1 | 898 798 |
| 10 BW | 12:32 | 18.9 | 16.8 | 2.5 | 14.3 | 816 716 |
| 11 R | | 17.7 | 15.8 | 2.5 | 13.3 | 751 651 Rocky Bottom |
| 12 Y | | 16.6 | 13.4 | 2.5 | 10.9 | 684 584 |
| 13 BW | 12:35 | 16.1 | 11.4 | 2.5 | 8.9 | 600 500 |
| 14 R | | 13.2 | 11.0 | 2.5 | 8.5 | 533 433 |
| 15 Y | | 11.2 | 7.1 | 2.5 | 4.6 | 476 376 |
| 16 BW | 12:38 | 10.6 | 8.2 | 2.5 | 5.7 | 403 303 |
| 17 R | | 9.4 | 5.7 | 2.5 | 3.2 | 352 252 |
| 18 Y | | 8.8 | | | | |
| 19 BW | | 5.9 | | | | |
| 20 R | | | | | | |

6004 00 N
3041

F. B. 1507 Pg. 163

Notes Ck'd by
Map No.
Office Work
Checked
Date

Survey of
W. O. Tape No. St'd. °F
Surveyed by
Notes Date
Indexed A. C. Johnson

# ~ TIDE ~

STANDARD TIME

DEC 15, 1953

| HOUR | TIDE |
|---|---|
| 6 00 | 5 4 |
| 6 30 | 4 9 |
| 7 00 | 4 6 |
| 7 30 | 4 0 |
| 8 00 | 3 5 |
| 8 30 | 2 7 |
| 9 00 | 2 3 |
| 9 30 | 1 9 |
| 10 00 | 1 6 |
| 10 30 | 1 4 |
| 11 00 | 1 2 |
| 11 30 | 1 2 |
| 12 00 | 1 1 |
| 12 30 | 1 1 |
| 1 00 | |

Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76FSOSS 247 4-53

F.B. 1507 PG. 164

STANDARD TIME

TIDE

DEC 16 1953

| HOUR | TIDE |
|---|---|
| 6 00 | 6.1 |
| 6 30 | 5.8 |
| 7 00 | 5.5 |
| 7 30 | 5.0 |
| 8 00 | 4.5 |
| 8 30 | 3.8 |
| 9 00 | 3.0 |
| 9 30 | 2.5 |
| 10 00 | 1.9 |
| 10 30 | 1.3 |
| 11 00 | 0.8 |
| 11 30 | |
| 12 00 | |
| 12 30 | |

RETURN TO
LOS ANGELES COUNTY SURVEYOR
720 LOS ANGELES COUNTY
ENGINEERING BLDG.
Do not extend notes this side of this line.

Note: Any Additions or Changes on This Sheet Must be Made or Circled in Red Ink With Date and Name of Person Making Change.

761,298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile
Notes Red _____ Plotted _____ Job No. BH2 Division No. _____
No. _____ Date _____ Date _____ Survey of Range Hwy
X-Sec. _____ Notes Ckkd _____ Checked _____ Survey by _____ Ph 12-15
No. _____ Date _____ Date _____ Map No. _____ Index Job Inspection Date

F.B. 1507 Pg. 56

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 606+62 38N | |
|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | | 1 | B&W | 7:17 | 74°42' | SIGHT ON 610+00N |
| | | 2 | R | | 74°42' | |
| | | 3 | Y | | 74°42' | |
| | | 4 | B&W | 7:19 | 74°42' | |
| | | 5 | R | | 74°42' | |
| | | 6 | Y | | 74°42' | |
| | | 7 | B&W | 7:21 | 74°42' | |
| | | 8 | R | | 74°42' | |
| | | 9 | Y | | 74°42' | |
| | | 10 | B&W | 7:25 | 74°42' | |
| | | 11 | R | | 74°42' | |
| | | 12 | Y | | 74°42' | |
| | | 13 | B&W | 7:27 | 74°42' | |
| | | 14 | R | | 74°42' | |
| | | 15 | Y | | 74°42' | |
| | | 16 | B&W | 7:29 | 74°42' | |
| | | 17 | R | | 74°42' | |
| | | 18 | Y | | 74°42 | |
| | | 19 | B&W | 7:30 | 74°42 | |
| | | 20 | R | | 74°42 | |

N 88 29 00 E
606+62.00
N 00 01 01 W

BASE LINE
RANGE 606+62.00
74°42'
RANGE LINE
606+62.00

F.B. 1507 PG. 166 | Job No. 8412 | Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date | Date | No.

Survey by F. H. Bennett | Notes Robbins | Notes Chkd. | Checked | X-Sec.

Indexed C. Tohnson | Date | Date | Date | No.

RANGE 520 + 62.38 N

606 + 62.38 N

610 + 00 NORTH

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. sight At OH | # | Color | Time | Hor. Ang. | |
| | 21 | Y | | 74 42 | |
| | 22 | B&W | 7:31 | 74 42 | |
| | 23 | R | | 74 42 | |
| | 24 | Y | | 74 42 | |
| | | | | | RANGE |
| | | | | | 606 + 62.38 |

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

76L298 307 10-51

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

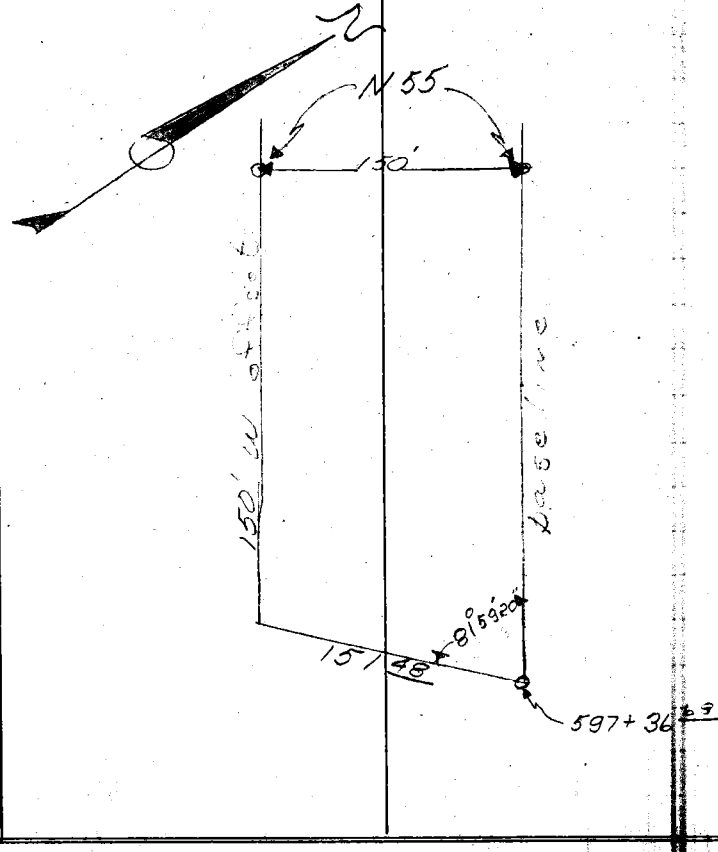
**Do not extend notes this side of this line.**

Profile Notes Red Plotted Job No. 8413 Division No. F.B. 1507 Pg. 67
No. Date. Date. Survey of BEACH & STADIUMS
X-Sec. Notes Chkd. Checked Survey by E.H. BLANCHARD & ASS Date 12-15-52
No. Date. Date. Map No. Checked Date

CUT-IN 606+62.38 N

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. |
| | 1 | B+W | 7:17 | [illegible] |
| | 2 | R | | 68° 35' |
| | 3 | Y | | 65° 45' |
| | 4 | B+W | 7:20 | 65° 30' |
| | 5 | R | | 63° 58' |
| | 6 | Y | | 62° 12' |
| | 7 | B+W | 7:22 | 60° 20' |
| | 8 | R | | 57° 55' |
| | 9 | Y | | 54° 57' |
| | 10 | B+W | 7:24 | 52° 18' |
| | 11 | R | | 50° 40' |
| | 12 | Y | | 48° 44' |
| | 13 | B+W | 7:26 | 46° 05' |
| | 14 | R | | 44° 34' |
| | 15 | Y | | 42° 25' |
| | 16 | B+W | 7:27 | 39° 58' |
| | 17 | R | | 37° 34' |
| | 18 | Y | | 34° 42' |
| | 19 | B+W | 7:29 | 32° 25' |
| | 20 | R | | 29° 33' |

Remarks




597+36.89
604+85.85
N 55
150' W of CUT-IN

B. 1507 Pg. 168

Profile No. X-Sec. No.

Survey of BEACH EROSION STUDIES Job No. 8412 Division No. Notes Red. Plotted

Survey by L. C. Jamieson Notes Date Date Checked

Indexed Notes Date Notes Chkd Date Date

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in 606+62.38N |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | 21 | Y | | 22° 35' | |
| | 22 | B-W | 7:31 | 23° 10' | |
| | 23 | R | | 24° 5' | |
| | 24 | Y | | 15° 2' | |
| | 25 | B-W | | | |
| | 26 | R | | | |

Cut-in 606+62.38

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red CEM Plotted Job No. 8442 Division No.
No. Date 1/18/54 Date Survey of BEACH EROSION Studies
X-Sec. Notes Chkd KLT Checked Survey by E&A Notes by RS Date 12-15-53
No. Date 1-22-54 Date Map No. Checked J. Johnson Date
F.B. 1587 Pg. 159

Boat 606+62.38 N

| STATION # | Color | B. S. Time | H. I. Head Depth | F. S. Bottom | ELEV. Tide | Adj. Depth | | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | 33.3 | | | | | |
| 1 | B×W | 7:16 | 32.7 | 32.9 | 4.2 | 28.7 | 2393 | |
| 2 | R | | 31.2 | 30.5 | 4.2 | 26.3 | 2178 | |
| 3 | Y | | 30.2 | 28.9 | 4.2 | 24.7 | 2008 | |
| 4 | B×W | 7:19 | 28.4 | 27.8 | 4.2 | 23.6 | 1910 | |
| 5 | R | | 28.1 | 27.2 | 4.2 | 23.0 | 1796 | |
| 6 | Y | | 27.7 | 26.6 | 4.2 | 22.4 | 1680 | |
| 7 | B×W | 7:21 | 27.6 | 26.3 | 4.2 | 22.1 | 1570 | |
| 8 | R | | 26.8 | 24.9 | 4.1 | 20.8 | 1441 | |
| 9 | Y | | 26.0 | 23.1 | 4.1 | 19.0 | 1308 | |
| 10 | B×W | 7:24 | 25.2 | 21.5 | 4.1 | 17.4 | 1200 | ROCKY BOTTOM |
| 11 | R | | 24.7 | 20.0 | 4.1 | 15.9 | 1138 | |
| 12 | Y | | 23.6 | 19.4 | 4.1 | 15.3 | 1074 | |
| 13 | B×W | 7:26 | 22.9 | 16.6 | 4.1 | 12.5 | 991 | |
| 14 | R | | 21.0 | 17.3 | 4.1 | 13.2 | 941 | |
| 15 | Y | | 20.1 | 15.3 | 4.1 | 11.2 | 887 | |
| 16 | B×W | 7:27 | 19.5 | 13.7 | 4.0 | 9.7 | 824 | |
| 17 | R | | 20.5 | 13.3 | 4.0 | 9.3 | 768 | |
| 18 | Y | | 18.9 | 12.0 | 4.0 | 8.0 | 700 | |
| 19 | B×W | 7:29 | 17.8 | 11.7 | 4.0 | 7.7 | 651 | |
| 20 | R | | 16.0 | 11.0 | 4.0 | 7.0 | 594 | |
| | | | 18.0 | | | | | |
| | | | 17.0 | | | | | |
| | | | 16.0 | | | | | |
| | | | 15.0 | | | | | |
| | | | 15.0 | | | | | |
| | | | 13.0 | | | | | |
| | | | 14.0 | | | | | |
| | | | 13.0 | | | | | |
| | | | 12.4 | | | | | |
| | | | 11.8 | | | | | |
| | | | 13.5 | | | | | |
| | | | 11.9 | | | | | |
| | | | 10.5 | | | | | |

Boat 606+62.38 N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 70 Job No. 8412 Division No. Notes Red. CEM Plotted
Survey of BEACH EROSION STUDY Date 1/18/54
Survey by E.H.B. Notes A.S. Notes Chkd K.A.C. Checked
Indexed C. Johnson Date Date 1-22-54

Profile No. X-Sec. No.

BOAT 6064 6238N

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | 6064 6238N |
|---|---|---|---|---|---|---|
| # Color | Time | Meas Depth | Bottom | Tide | Adj. Depth | Remarks |
| 21 Y | | 11.1 10.8 | 10.9 | 4.0 | 6.9 | 524 |
| 22 B | 7:30 | 11.0 10.0 | 10.3 | 4.0 | 6.3 | 473 |
| 23 R | | 10.0 9.0 | 9.3 | 4.0 | 5.3 | 407 |
| 24 Y | | 7.8 6.2 | 6.7 | 4.0 | 2.7 | 339 |

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

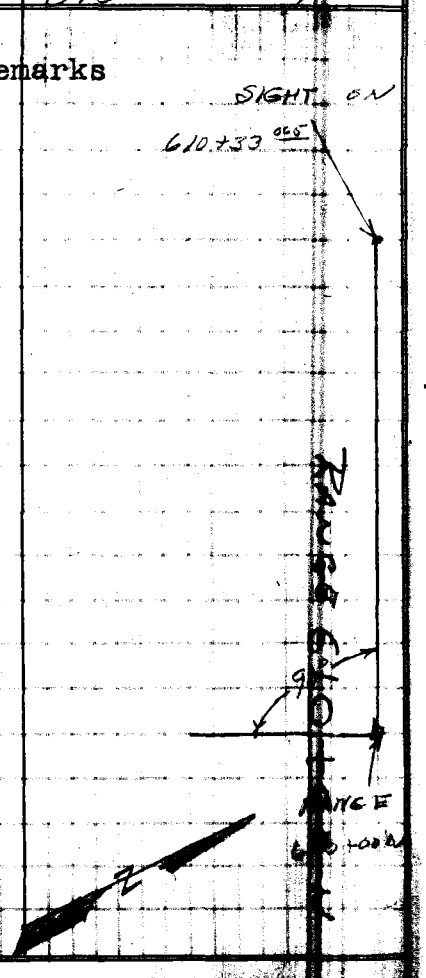
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No. 54-12 Division No. 2
No.____ Date____ Date____ Survey of Range Line
X-Sec. Notes Chkd.____ Checked____ Survey E. H. BLANCHARD Date 12-10-54
No.____ Date____ Date____ Map No.____ Indexed____ Date____

F. B. 1547 pg. 22

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE | 610+00 N |
|---|---|---|---|---|---|---|
| Inst. Sight At On | | # Color | Time | Hor. Ang. | Remarks | |
| | | 1 B&W | 7:50 | 90°00' | SIGHT ON | |
| | | 2 R | | 90°00' | 610+33 065 | |
| | | 3 Y | | 90°00' | | |
| | | 4 B&W | 7:52 | 90°00' | | |
| | | 5 R | | 90°00' | | |
| | | 6 Y | | 90°00' | | |
| | | 7 B&W | 7:56 | 90°00' | | |
| | | 8 R | | 90°00' | | |
| | | 9 Y | | 90°00' | | |
| | | 10 B&W | 7:59 | 90°00' | | |
| | | 11 R | | 90°00' | | |
| | | 12 Y | | 90°00' | | |
| | | 13 B&W | 8:01 | 90°00' | | |
| | | 14 R | | 90°00' | | |
| | | 15 Y | | 90°00' | | |
| | | 16 B&W | 8:03 | 90°00' | | |
| | | 17 R | | 89°41' | | |
| | | 18 Y | | 90°00' | | |
| | | 19 B&W | 8:06 | 90°00' | | |
| | | 20 R | | 90°00' | | |



76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____

Plotted ____ Date ____ Checked ____ Date ____

Notes Red. ____ Date ____ Notes Chkd. ____ Date ____

Job No. 42-11 Division No. ____

Survey of Beach Erosion Study

Survey by F. H. Blanchard Notes Rebkins Date ____

Indexed ____ Checked ____ Date ____

Pg. 1527 Pg. 172

RANGE 610+00 N

RANGE 610+00 N

610+33.05 West

610+00 N

| STATION At | Inst. Sight On | B. S. # | H. I. Color | F. S. Time | ELEV. Hor. Ang. | RANGE | 610+00 N |
|---|---|---|---|---|---|---|---|
| | | | | | | Remarks | |
| | | 21 | Y | | 90°00' | | |
| | | 22 | B+W | 8.09 | 90°00' | | |
| | | 23 | R | | 90°00' | | |
| | | 24 | Y | | 90°00' | | |
| | | 25 | B+W | 8.11 | 90°00' | | |
| | | 26 | R | | 90°00' | | |
| | | 27 | Y | | 90°00' | | |
| | | 28 | B+W | 8.15 | 90°00' | | |
| | | 29 | R | | 90°00' | | |
| | | 30 | Y | | 90°00' | | |
| | | 31 | B+W | 8.20 | 90°00' | | |
| | | 32 | R | | 90°00' | | |
| | | 33 | Y | | 90°00' | | |
| | | 34 | B+W | 8.22 | 90°00' | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

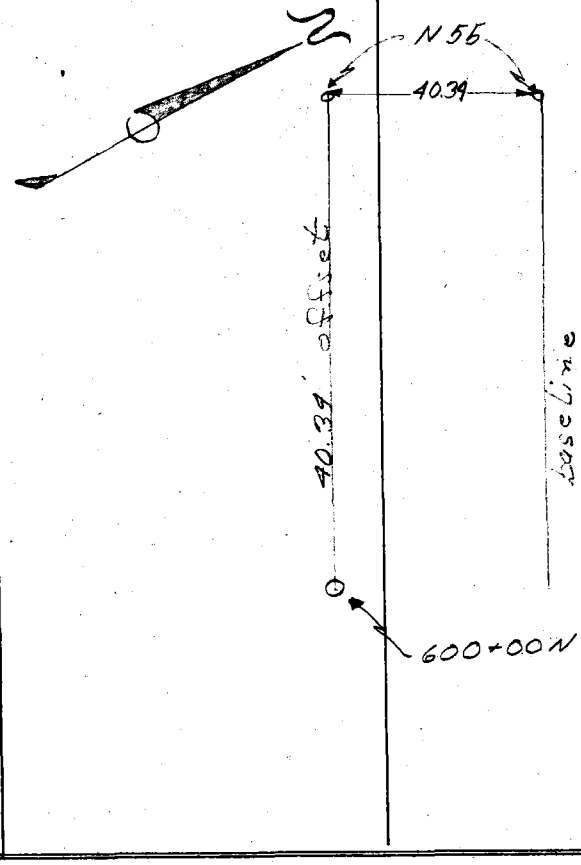
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red Plotted Job No. 8412 Division No.
No. Date Date Survey of L. H. BLANCHARD F.B. 1507 Pg. 122
X-Sec. Notes Ckkd Checked Survey by J. [illegible] Date 12-15-53
No. Date Date Map No. Indexed Date

Cut-in 610+00 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | |
| | 1 | B+W | 7:50 | 81°35' | |
| | 2 | R | | 80°18' | |
| | 3 | Y | | 78°26' | |
| 40.39' W 0ffset | 4 | B+W | 7:53 | 77°04' | |
| | 5 | R | | 75°41' | |
| | 6 | Y | | 74°02' | |
| 40.39' W 0ffset | 7 | B+W | 7:56 | 72°28' | |
| | 8 | R | | 70°18' | |
| | 9 | Y | | 68°33' | |
| | 10 | B+W | 7:59 | 66°26' | |
| | 11 | R | | 64°35' | |
| | 12 | Y | | 62°29' | |
| 600+00 N | 13 | B+W | 8:01 | 60°18' | |
| | 14 | R | | 59°15' | |
| | 15 | Y | | 58°12' | |
| N 55 | 16 | B+W | 8:04 | 57°17' | |
| | 17 | R | | 56°28' | |
| | 18 | Y | | 55°57' | |
| | 19 | B+W | 8:07 | 55°08' | |
| | 20 | R | | 54°02' | |




CUT-IN 610+00 N

F.B. 1507 Pg. 1/11 Job No. 8412 Division No. Notes Red Plotted No. Profile
Survey of BEACH EROSION STUDIES Date Date X-Sec.
Survey by F. H. Date Notes Chkd Checked
Indexed C. Johnson Date Date Date No.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in | 610+00N |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| CUT-IN 610+00N | 21 | Y | | [illegible] | | |
| 600+00N 40 3/4 OFFSET | 22 | B+W | 8:08 | [illegible] | | |
| | 23 | R | | [illegible] | | |
| | 24 | Y | | 44°41' | | |
| 40 3/4 OFFSET | 25 | B+W | 8:12 | 41°36' | | |
| | 26 | R | | [illegible] | | |
| | 27 | Y | | 38°01' | | |
| N 55 | 28 | B+W | 8:15 | [illegible] | | |
| | 29 | R | | 33°55' | | |
| | 30 | Y | | [illegible] | | |
| | 31 | B+W | 8:20 | 31°08' | | |
| | 32 | R | | 33°32' | | |
| | 33 | Y | | [illegible] | | |
| | 34 | B+W | 8:22 | 24°38' | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red CEM Plotted Job No. 54-43 Division No. F.B. 1507 Pg. 125
No. Date 1/18/54 Date Survey of L. BLANCHARD Notes R.K. Date 12-15-53
X-Sec. Notes Chkd. Checked Surveyed by C. JORDAN Date
No. Date 1-22-54 Date Map No. Indexed Date

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | 610+00N |
|---|---|---|---|---|---|---|
| # Color | Time | Mean Depth | Bottom | Tide | Adj. Depth | Remarks |
| 1 BW | 749 | 32.2 / 31.6 | 31.8 | 3.7 | 28.1 | 2189 |
| 2 R | | 30.4 / 29.7 | 29.9 | 3.6 | 26.3 | 2077 |
| 3 Y | | 28.1 / 27.2 | 27.5 | 3.6 | 23.9 | 1935 |
| 4 BW | 752 | 27.3 / 26.8 | 27.0 | 3.6 | 23.4 | 1838 |
| 5 R | | 26.9 / 26.2 | 26.4 | 3.6 | 22.8 | 1751 |
| 6 Y | | 25.8 / 26.9 | 26.2 | 3.6 | 22.6 | 1657 |
| 7 BW | 755 | 25.7 | 26.1 | 3.5 | 22.6 | 1572 |
| 8 R | | 25.3 / 24.7 | 24.9 | 3.5 | 21.4 | 1467 |
| 9 Y | | 25.1 / 23.5 | 24.0 | 3.5 | 20.5 | 1388 |
| 10 BW | 758 | 24.2 / 23.6 | 23.8 | 3.5 | 20.3 | 1301 |
| 11 R | | 22.7 / 21.9 | 22.2 | 3.4 | 18.8 | 1229 |
| 12 Y | | 21.2 / 20.4 / 20.2 | 20.7 | 3.4 | 17.3 | 1157 |
| 13 BW | 801 | 19.5 / 20.1 | 19.8 | 3.4 | 16.4 | 1084 |
| 14 R | | 19.4 / 20.6 | 19.6 | 3.4 | 16.2 | 1051 |
| 15 Y | | 19.1 / 19.7 | 19.6 | 3.4 | 16.2 | 1020 |
| 16 BW | 803 | 18.5 / 18.7 | 18.9 | 3.4 | 15.5 | 994 |
| 17 R | | 17.6 / 19.3 | 18.0 | 3.4 | 14.6 | 972 |
| 18 Y | | 18.5 / 18.8 | 18.8 | 3.3 | 15.5 | Rocky Cotton 958 |
| 19 BW | 806 | 17.8 / 17.3 | 18.2 | 3.3 | 14.9 | 934 |
| 20 R | | 16.6 | 16.4 | 3.3 | 13.1 | 904 |

BOAT 610+00N

F.B. 502 PG. 26 | Job No. 8412 Division No. Notes Rpd. CEM Plotted
Survey of Soundings Date 1/18/54 Date
Survey by F. H. BLANCHARD Notes Chkd. Checked
Indexed C. Tahmisian Date 1-23-54 Date
Profile No. X-Sec. No.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

BOAT SOUNDINGS

| STATION # | Color | B. S. Time | H. I. Meas. Depth | F. S. Bottom Tide | ELEV. | BOAT Adj. Depth | CURTOOK Remarks |
|---|---|---|---|---|---|---|---|
| 21 | Y | | 15.9 / 15.0 | 15.3 | 3.3 | 12.0 | 857 |
| 22 | BW | 8 09 | 15.3 / 15.2 | 15.2 | 3.3 | 11.9 | 816 |
| 23 | R | | 13.9 / 13.1 | 14.1 | 3.2 | 10.9 | 756 |
| 24 | Y | | 12.3 / 12.7 | 12.6 | 3.2 | 9.4 | 684 |
| 25 | BW | 8 11 | 11.9 / 12.2 | 12.2 | 3.2 | 9.0 | 621 |
| 26 | R | | 11.8 / 10.9 | 11.9 | 3.2 | 8.7 | 660 |
| 27 | Y | | 9.8 / 10.3 | 10.1 | 3.2 | 6.9 | 550 |
| 28 | BW | 8:15 | 9.2 / 10.2 | 9.6 | 3.1 | 6.5 | 528 |
| 29 | R | | 9.1 / 10.0 | 9.5 | 3.1 | 6.4 | 511 |
| 30 | Y | | 8.8 / 9.4 | 9.2 | 3.1 | 6.1 | 517 |
| 31 | BW | 8:20 | 8.7 / 10.0 | 9.0 | 3.0 | 6.0 | 475 |
| 32 | R | | 8.5 / 9.0 | 9.0 | 3.0 | 6.0 | 411 |
| 33 | Y | | 6.0 / 7.0 | 6.3 | 3.0 | 3.3 | 353 |
| 34 | BW | 8:22 | 5.8 | 6.2 | 3.0 | 3.2 | 309 |

74L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

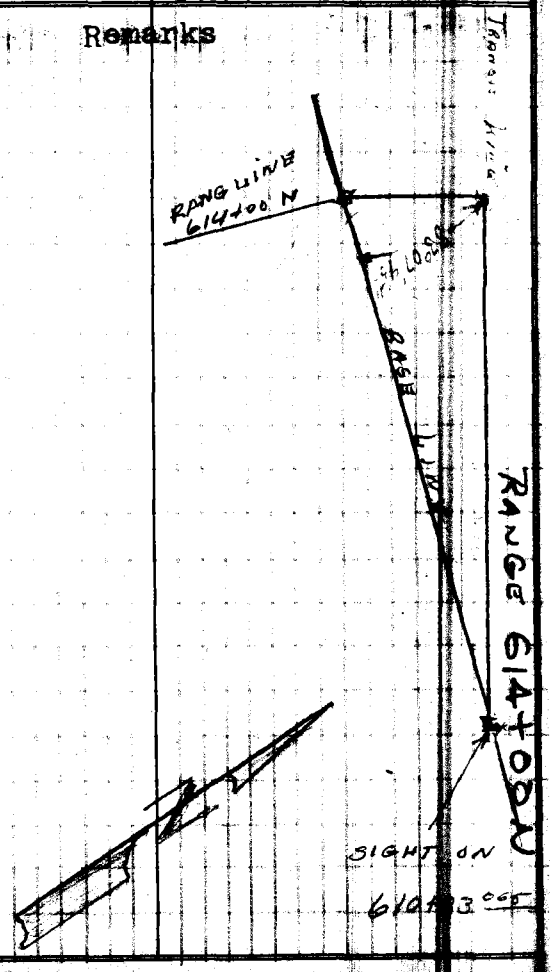
**Do not extend notes this side of this line.**

Profile Notes Red. Plotted. Job No. 84-1 Division No.
No. Date Date Survey of Beg. at Int. of Rancho Tract No. 6600 and Range Line
Sec. Notes Chkd. Checked Survey by [illegible] Date 12-15-55
No. Date Date Map No. Index by [illegible] Date

F. B. 1507 Pg. 172

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight | | # Color | Time Hor. Ang. | Remarks |
| AV On | | 1 B+W | 8:35 | 83°07'45" |
| | | 2 R | | " |
| | | 3 Y | | " |
| | | 4 B+W | 8:39 | " |
| | | 5 R | | " |
| | | 6 Y | | " |
| | | 7 B+W | 8:43 | " |
| | | 8 R | | " |
| | | 9 Y | | " |
| | | 10 B+W | 8:45 | " |
| | | 11 R | | " |
| | | 12 Y | | " |
| | | 13 B+W | 8:48 | 83°07'45" |
| | | 14 R | | " |
| | | 15 Y | | " |
| | | 16 B+W | 8:50 | " |
| | | 17 R | | " |
| | | 18 Y | | " |
| | | 19 B+W | 8:53 | " |
| | | 20 R | | " |

AV N Base Line
610+33.65
614+00



F. B. 507 Pg. 178 | Job No. 842 | Division No. | Notes Red. | Plotted | Profile

Survey of Beach Erosion Studies | Date | Date | No.

Survey by F. H. BLANCHARD | Notes J.C.G | Notes Chkd. | Checked | X-Sec.

Indexed C. JOHNSON | Date | Date | Date | No.

761.298 307 4-50

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

RANGE 614+00 N

614+00 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|
| Inst. sight At | # | Color | Time | | | |
| 610+33 ±65 N Baseline | 21 | Y | 8:55 | | | Range |
| | 22 | B&W | | | | |
| | | | | | | 614+00 N |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No.____ Division No.____ F.B. 1507 Pg. 124
No.____ Date____ Date____ Survey of____
X-Sec. Notes Ckd____ Checked____ Survey by____ Notes OKS Date 12-15-53
No.____ Date____ Map No.____ Traverse Computed____ Date____

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in 614+00N | |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B+W | 8:35 | 80°06' | | |
| | 2 | R | | 78°01' | | |
| | 3 | Y | | 76°15' | | |
| | 4 | B+W | 8:39 | 74°58' | | |
| | 5 | R | | 73°33' | | |
| | 6 | Y | | 72°07' | | |
| | 7 | B+W | 8:42 | 70°45' | | |
| | 8 | R | | 69°27' | | |
| | 9 | Y | | 67°42' | | |
| | 10 | B+W | 8:45 | 65°12' | | |
| | 11 | R | | 63°14' | | |
| | 12 | Y | | 61°02' | | |
| | 13 | B+W | 8:48 | 58°07' | | |
| | 14 | R | | 54°09' | | |
| | 15 | Y | | 50°28' | | |
| | 16 | B+W | 8:50 | 46°45' | | |
| | 17 | R | | 43°26' | | |
| | 18 | Y | | 40°15' | | |
| | 19 | B+W | 8:53 | 35°46' | | |
| | 20 | R | | 31°18' | | |

Base Line

606+62.38

610+00 N

CUT-IN 614+00 N

76L298-307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED IN INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red Date Notes Chkd Date

Job No. Division No.

Survey of F.B. 660 Pg. 180

Survey by C. GUARD Notes

Indexed C. Taylor Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in 614+00 N |
|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | | 21 | Y | | 28°25' | |
| | | 22 | B+W | 8:53 | 23°14' | |

CUT-IN 614+00 N
BSTA 610+00 N BASELINE
BSTA 606+62.58 N BASELINE

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Boat 614+00N

| STATION # | Color | Time | B. S. | H. I. | Bottom | F. S. | ELEV. | Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | B x W | 8:35 | | 32.5 | | | | | | |
| | | | | 32.0 | | 32.2 | 2.7 | | 29.5 | 2466 2510 - 44 |
| 2 | R | | | 31.7 | | | | | | |
| | | | | 30.9 | | 31.2 | 2.7 | | 28.5 | 2180 2224 |
| 3 | Y | | | 30.5 | | | | | | |
| | | | | 30.0 | | 30.2 | 2.7 | | 27.5 | 1993 2037 |
| 4 | B x W | 8:38 | | 29.0 | | | | | | |
| | | | | 28.5 | | 27.2 | 2.7 | | 24.5 | 1861 1905 |
| 5 | R | | | 26.8 | | | | | | |
| | | | | 25.9 | | 26.1 | 2.7 | | 23.4 | 1741 1785 |
| 6 | Y | | | 26.3 | | | | | | |
| | | | | 25.5 | | 25.8 | 2.7 | | 23.1 | 1631 1675 |
| 7 | B x W | 8:42 | | 26.7 | | | | | | |
| | | | | 25.0 | | 25.2 | 2.6 | | [illegible] | 1580 1580 |
| 8 | R | | | 25.9 | | | | | | |
| | | | | 24.7 | | 25.1 | 2.6 | | [illegible] | 1458 1502 |
| 9 | Y | | | 24.9 | | | | | | |
| | | | | 24.0 | | 24.3 | 2.6 | | [illegible] | 1358 1402 |
| 10 | B x W | 8:44 | | 23.0 | | | | | | |
| | | | | 22.9 | | 22.3 | 2.6 | | [illegible] | 1233 1277 |
| 11 | R | | | 22.1 | | | | | | |
| | | | | 20.9 | | 21.3 | 2.6 | | 18.7 | 1144 1188 |
| 12 | Y | | | 20.5 | | | | | | |
| | | | | 19.3 | | 19.8 | 2.6 | | 17.2 | 1058 1102 |
| 13 | B x W | 8:47 | | 18.5 | | | | | | |
| | | | | 17.8 | | 18.0 | 2.5 | | 15.5 | 958 1002 |
| 14 | R | | | 17.6 | | | | | | |
| | | | | 16.4 | | 16.8 | 2.5 | | 14.3 | 842 886 |
| 15 | Y | | | 16.0 | | | | | | |
| | | | | 15.1 | | 15.4 | 2.5 | | 12.9 | 743 787 |
| 16 | B x W | 8:50 | | 15.7 | | | | | | |
| | | | | 14.5 | | 14.9 | 2.5 | | 12.4 | 658 702 |
| 17 | R | | | 13.0 | | | | | | |
| | | | | 12.5 | | 12.7 | 2.5 | | 10.2 | 588 632 |
| 18 | Y | | | 13.0 | | | | | | |
| | | | | 11.3 | | 11.9 | 2.5 | | 9.4 | 529 573 |
| 19 | B x W | 8:53 | | 10.8 | | | | | | |
| | | | | 9.9 | | 10.2 | 2.5 | | 7.7 | 451 495 |
| 20 | R | | | 9.0 | | | | | | |
| | | | | 8.5 | | 8.7 | 2.4 | | 6.3 | 378 422 |

BOAT 614+00N

Profile Notes Red CEM Plotted Job No. 6442 Division No. F. B. 5237 Pg. 11
No. Date 1/18/54 Date Survey of BOAT BASIN
No. Date 1-22-54 Date Map No. Indexed

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

B.B. 307 P. 82 | Job No. 8413 Division No. | Notes Red. CEM Plotted | Profile
Survey of BEACH EROSION STUDY Date 1/18/54 | No. | X-Sec.
Survey by F. H. BLANCHARD Notes Chkd. AS Checked | No.
Indexed Date | Notes Date 1-22-54 Date

BOAT 614+00N

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | | G14+00N |
|---|---|---|---|---|---|---|---|
| # Color | Time | Depth | Bottom | Tide | Adj. Depth | | Remarks |
| 21 | | 9.0 2.8 | 8.2 | 2.4 | 5.8 | 337 | 381-44 |
| 22 B&W | 8:54 | 7.0 1.9 | 6.3 | 2.4 | 3.9 | 260 | 304-44 |

764.298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 841.2 Division No.____
No.____ Date____ Date____ Survey of Range Lines by H. Blanchard, J.C.G. Date 12-15-53
X-Sec. Notes Chkd____ Checked____ Survey by____ Added Job____ Date____
No.____ Date____ Date____ Map No.____ Date____

F. B. 1507 Pg. 182

Range 617+60.98

| STATION | B. S. | H. I. | F. S. | ELEV. | Time Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | | | | |
| | 1 | B&W | 9:07 | 90° 00' | | |
| | 2 | R | | 90° 00' | | |
| | 3 | Y | | 90° 00' | | |
| | 4 | B&W | 9:10 | 90° 00' | | |
| | 5 | R | | 90° 00' | | |
| | 6 | Y | | 89° 32' | | |
| | 7 | B&W | 9:13 | 90° 00' | | |
| | 8 | R | | 90° 00' | | |
| | 9 | Y | | 90° 00' | | |
| | 10 | B&W | 9:15 | 90° 00' | | |
| | 11 | R | | 90° 00' | | |
| | 12 | Y | | 90° 00' | | |
| | 13 | B&W | 9:17 | 89° 18' | | |
| | 14 | R | | 90° 00' | | |
| | 15 | Y | | 90° 00' | | |
| | 16 | B&W | 9:20 | 90° 00' | | |
| | 17 | R | | 90° 00' | | |
| | 18 | Y | | 90° 00' | | |
| | 19 | B&W | 9:26 | 90° 00' | | |
| | 20 | R | | 90° 00' | | |

617+60.98 N

620+00 N

1/4 Corner County Baseline

Range 617+60.98

Inst. At 617+60.98

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1507 Pg. 184 | Job No. 842 | Division No. | Notes Red. | Plotted | Profile
Survey of Boaz & Goodwin Studies | Date | Date | No.
Survey by F. H. Burkhard | Notes J. C. G. | Notes Chkd. | Checked | X-Sec.
Indexed | Date | Date | Date | No.

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 617+6028 |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks |
| | 21 | Y | | 90 00 | |

Range 617+60 28N
617+60 N Baseline
620+00 N Baseline

76L298 307 10-51

PLEASE RETURN TO
**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

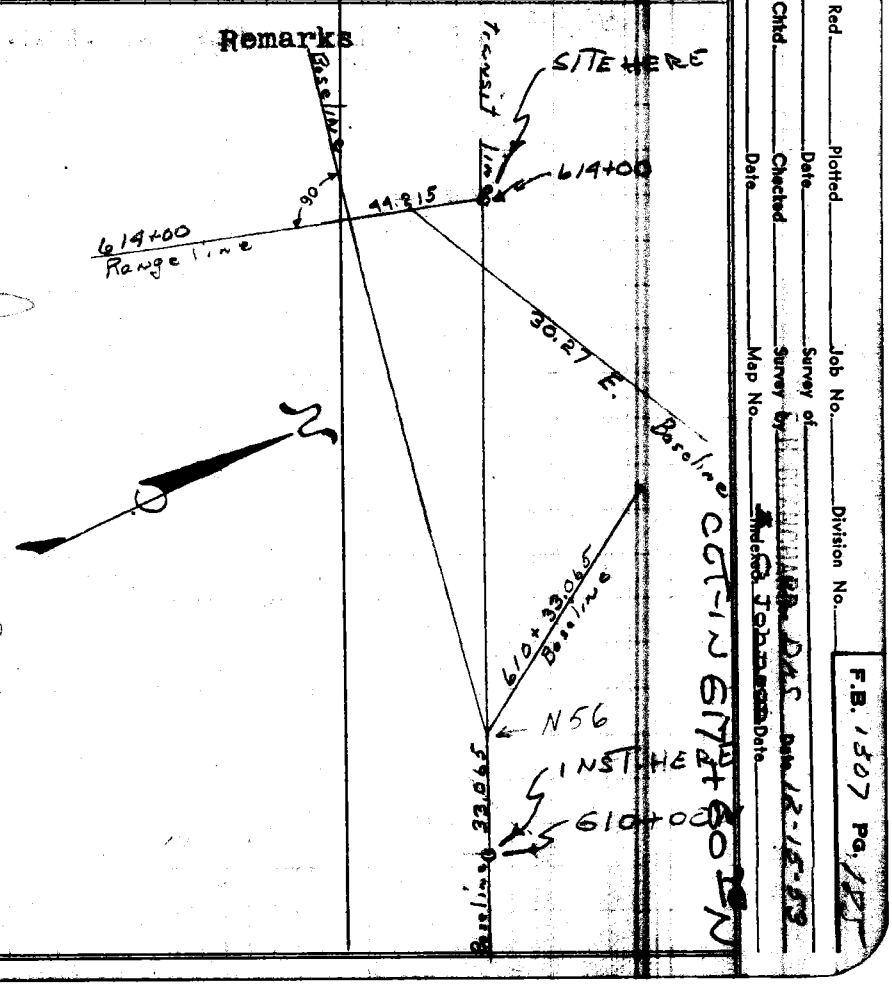
**Do not extend notes this side of this line.**

Profile Notes Red No.____ Plotted____ Job No.____ Division No.____
X-Sec. No.____ Date____ Date____ Survey of____ F.B. 1507 Pg. 17
Notes Chkd____ Checked____ Survey by____ Date 12-15-53
No.____ Date____ Date____ Map No.____ Date____

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. |
| | 1 | B+W | 9:07 | 55° 19' |
| | 2 | R | | 54° 13' |
| | 3 | Y | | 53° 05' |
| | 4 | B+W | 9:10 | 52° 00' |
| | 5 | R | | 50° 47' |
| | 6 | Y | | 49° 24' |
| | 7 | B+W | 9:13 | 48° 05' |
| | 8 | R | | 46° 42' |
| | 9 | Y | | 45° 40' |
| | 10 | B+W | 9:15 | 43° 55' |
| | 11 | R | | 42° 20' |
| | 12 | Y | | 40° 21' |
| | 13 | B+W | 9:17 | 38° 34' |
| | 14 | R | | 37° 03' |
| | 15 | Y | | 35° 03' |
| | 16 | B+W | 9:20 | 33° 17' |
| | 17 | R | | 31° 10' |
| | 18 | Y | | 29° 22' |
| | 19 | B+W | 9:26 | 27° 10' |
| | 20 | R | | 24° 08' |

Cut-in 617+60.98 N

Remarks




Baseline
30.21'E Baseline
614+00 N
610+00 N

F.B. 1507 PG. 186 | Job No. | Division No. | Notes Red. | Plotted | Profile

Survey of | Date | Date | No.

Survey by [redacted] Johnson | Notes | Notes Chkd | Checked | X-Sec.

Indexed | Date | Date | Date | No.

CUT-IN 617+60 88 N
610+00 N BASELINE

614+00 N

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight On | # 21 | Color Y | Time | Hor. Ang. 23° 14' | Cut-in 617+60 88 N |

761298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

764298 307 4-80

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile — Notes Red CEM Plotted — Job No. 64-12 Division No. — F.B. 1527 Pg.
No. — Date 1/18/54 Date — Survey of Blanchard Rd. Sta. 12+00 to Sta. 22+00
X-Sec. — Notes Checked — Survey by T. H. BLANCHARD & ASS. Pub. Hwy.
No. — Date 1-22-54 Checked — Date — Map No. — Date — Approved — Date — Job No.

| STATION | B. S. | H. I. | F. S. | ELEV. | Bort | 6177+60.98N |
|---|---|---|---|---|---|---|
| # Color | Time | Middle Bottom | Tide | Adj. Depth | Remarks | |
| 1 B&W | 907 | 32.6 / 31.2 | 31.7 | 2.2 | 29.5 | 1941 | 2032 - 91 |
| 2 R | | 31.2 / 30.7 | 30.9 | 2.2 | 28.7 | 1791 | 1882 |
| 3 Y | | 29.3 / 28.8 | 29.0 | 2.2 | 26.8 | 1659 | 1750 |
| 4 B&W | 909 | 28.3 / 27.6 | 27.8 | 2.2 | 25.6 | 1544 | 1635 |
| 5 R | | 28.7 / 27.4 | 27.8 | 2.2 | 25.6 | 1429 | 1520 |
| 6 Y | | 26.3 / 25.9 | 26.0 | 2.2 | 23.8 | 1289 | 1380 |
| 7 B&W | 912 | 25.7 / 24.4 | 24.8 | 2.1 | 22.7 | 1219 | 1310 |
| 8 R | | 23.4 / 22.9 | 23.1 | 2.1 | 21.0 | 1121 | 1212 |
| 9 Y | | 22.0 / 21.0 | 21.3 | 2.1 | 19.2 | 1059 | 1150 |
| 10 B&W | 915 | 21.0 / 20.7 | 20.8 | 2.1 | 18.7 | 964 | 1055 |
| 11 R | | 21.3 / 20.7 | 20.9 | 2.1 | 18.8 | 884 | 975 |
| 12 Y | | 18.9 / 18.3 | 18.5 | 2.1 | 16.4 | 794 | 885 |
| 13 B&W | 917 | 17.3 / 16.7 | 16.9 | 2.1 | 14.8 | 706 | 797 |
| 14 R | | 16.0 / 15.6 | 15.7 | 2.0 | 13.7 | 665 | 756 |
| 15 Y | | 14.9 / 14.0 | 14.3 | 2.0 | 12.3 | 599 | 690 |
| 16 B&W | 919 | 13.7 / 12.9 | 13.2 | 2.0 | 11.2 | 539 | 630 |
| 17 R | | 10.9 / 10.0 | 10.3 | 2.0 | 8.3 | 480 | 571 |
| 18 Y | | 10.0 / 9.4 | 9.6 | 2.0 | 7.6 | 430 | 521 |
| 19 B&W | 926 | 9.0 / 8.3 | 8.3 | 1.9 | 6.4 | 378 | 469 |
| 20 R | | 8.3 / 7.5 | 7.5 | 1.9 | 5.6 | 309 | 400 |

Bort 6177+60.98N

Rodney Cobb

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1507 Pg. 188 | Job No. 8412 Division No. | Notes Red. CEM Plotted | Profile
Survey of BEACH EROSION STUDY Date 1/18/54 No. | X-Sec.
Survey by F. H. BLANCHARD Notes K Checked K.K. | Notes Chkd. K.K. Date 2-25-54 No.
Indexed C. Johnson Date | Date

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | | 617+60.98N |
|---|---|---|---|---|---|---|---|
| # Color Time | | Meas. Depth | Bottom | Tide | Adj. Depth | | Remarks |
| 21 Y | | 8.2<br>5.8 | 6.6 | 1.9 | 4.7 | 289 | 380-91 |

BOAT 617+60.98N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

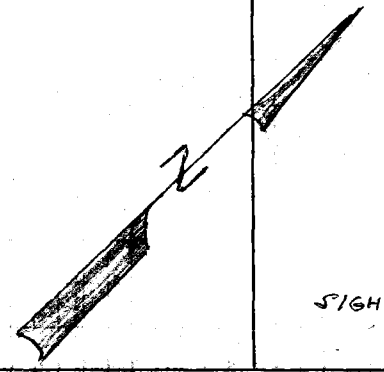
**Do not extend notes this side of this line.**

Profile Notes Red Plotted Job No. 8412 Division No. F.B. 1507 Pg. 18
No. Date Date Survey of F. H. BLANCHARD & R. Date 12-15-58
X-Sec. Notes Chkd. Checked Survey by Meters: C. Johnson Date
No. Date Date Map No. Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 620+00 N |
|---|---|---|---|---|---|
| Inst. Sight At / On | # | Color | Time | Hor. Ang. | Remarks |
| 620+00 N | 1 | B&W | 10:10 | 90°00' | RANGE LINE 620+00 N |
| | 2 | R | | 90°00' | |
| | 3 | Y | | 90°00' | |
| 307 | 4 | B&W | 10:12 | 90°00' | |
| | 5 | R | | 90°00' | |
| | 6 | Y | | 90°00' | |
| 617+19 | 7 | B&W | 10:15 | 90°00' | |
| | 8 | R | | 90°00' | |
| | 9 | Y | | 90°00' | |
| | 10 | B&W | 10:17 | 90°00' | |
| | 11 | R | | 90°00' | |
| | 12 | Y | | 90°00' | |
| | 13 | B&W | 10:19 | 90°00' | |
| | 14 | R | | 90°00' | |
| | 15 | Y | | 90°00' | |
| | 16 | B&W | 10:21 | 90°00' | |
| | 17 | R | | 90°00' | |

32.72

BASE LINE RANGE 620+00 N




SIGHT ON 617+60

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

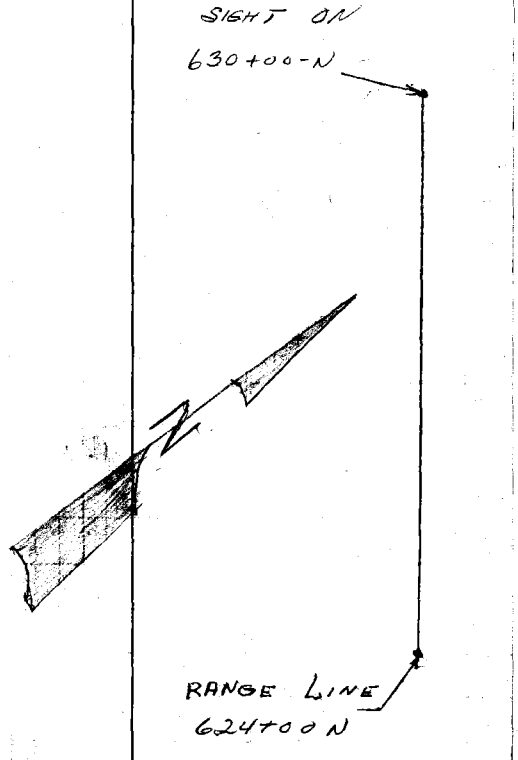
Do not extend notes this side of this line.

F.B. 1507 PG. 19 Job No. 8412 Division No. Notes Red. Plotted No. Profile
Survey of BEACH & 205TH ST. TUNNEL Date Date X-Sec.
Survey by [illegible] Notes E.R. Notes Chkd. Checked No.
Indexed [illegible] Date Date Date

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE 624+00 - N |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks |
| | 1. | B+W | 10:36 | 90°00' | |
| | 2. | R | | 90°00' | |
| | 3. | Y | | 90°00' | |
| | 4. | B+W | 10:40 | 90°00' | |
| | 5 | R | | 90°00' | |
| | 6 | Y | | 90°00' | |
| | 7 | B+W | 10:43 | 90°00' | |
| | 8 | R | | 90°00' | |
| | 9 | Y | | 90°00' | |
| | 10 | B+W | 10:46 | 90°00' | |
| | 11 | R | | 90°00' | |
| | 12 | Y | | 90°00' | |
| | 13 | B+W | 10:49 | 90°00' | |
| | 14 | R | | 90°00' | |
| | 15 | Y | | 90°00' | |
| | 16 | B+W | 10:51 | 90°00' | |
| | 17 | R | | 90°00' | |
| | 18 | Y | | 90°00' | |
| | 19 | B+W | 10:55 | 90°00' | |

RANGE 624+00 N

630+00 - N



76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red. Plotted Job No. 8412 Division No. F.B. 1587 Pg. 147
No. Date. Date. Survey of BASIN & ROAD STUDIES
X-Sec. Notes Cked. Checked Survey by E. H. BLANCHARD LS 1215 Date 12-15-53
No. Date. Date. Map No. Traverse Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in | 620+00 N |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B+W | 10:10 | 48° 53' | | |
| | 2 | R | | 47° 47' | | |
| | 3 | Y | | 46° 43' | | |
| | 4 | B+W | 10:12 | 45° 33' | | |
| | 5 | R | | 44° 24' | | |
| | 6 | Y | | 43° 05' | | |
| | 7 | B+W | 10:15 | 41° 39' | | |
| | 8 | R | | 39° 53' | | |
| | 9 | | | 37° 59' | | |
| | 10 | B+W | 10:17 | 35° 30' | | |
| | 11 | R | | 33° 10' | | |
| | 12 | | | 30° 42' | | |
| | 13 | B+W | 10:19 | 27° 44' | | |
| | 14 | R | | 25° 26' | | |
| | 15 | Y | | 22° 06' | | |
| | 16 | B+W | 10:21 | 17° 20' | | |
| | 17 | R | | 10° 47' | | |
| | 18 | Y | | | | |
| | 19 | B+W | | | | |
| | 20 | R | | | | |

CUT-IN 620+00 N

F.B. 1507 PG. 92 Job No. 8412 Division No. Profile
Survey of BEACH EROSION STUDIES No. X-Sec.
Survey by Notes Red Date Plotted Date
Notes Chkd Checked
Indexed Notes Date Date
Date No.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in 624+00 N |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | 1 | G+W | 10:36 | 76° 26' | |
| | 2 | R | | 76° 15' | |
| | 3 | Y | | 62° 13' | |
| | 4 | B+W | 10:40 | 65° 55' | |
| | 5 | R | | 65° 03' | |
| | 6 | Y | | 63° 05' | |
| | 7 | B+W | 10:43 | 61° 39' | |
| | 8 | R | | 59° 53' | |
| | 9 | Y | | 57° 45' | |
| | 10 | G+W | 10:46 | 52° 26' | |
| | 11 | | | 52° 16' | |
| | 12 | | | 49° 19' | |
| | 13 | G+W | 10:49 | 49° 11' | |
| | 14 | | | 43° 35' | |
| | 15 | | | 40° 36' | |
| | 16 | G+W | 10:51 | 37° 41' | |
| | 17 | R | | 34° 37' | |
| | 18 | Y | | 29° 18' | |
| | 19 | G+W | 10:55 | 28° 37' | |
| | 20 | R | | | |

Cut-in 624+00 N
Base line

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Rod CEM Plotted _____ Job No 54126 Division No _____ F.B. 1502 Pg. 42
No _____ Date 1/18/54 Date _____ Survey of Boat Harbor Survey by F.H. BLANCHARD Rod B. Jackson Date 1-13-54
No. _____ Date _____ Checked K.K. Date 1-22-54 Map No. _____ Indexed _____ Date _____
Notes Cont.

| STATION # | Color | Time | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | Boat Adj. Depth | 620 to 00 N Remarks |
|---|---|---|---|---|---|---|---|
| 1 | B x W | 10:10 | 30.3 29.7 | 29.9 | 1.5 | 28.4 | 1870 |
| 2 | R | | 29.4 29.9 | 29.1 | 1.5 | 27.6 | 1730 Rocky Bottom |
| 3 | Y | | 28.4 28.0 | 28.1 | 1.5 | 26.6 | 1621 |
| 4 | B x W | 10:19 | 27.8 26.9 | 27.2 | 1.5 | 25.7 | 1515 |
| 5 | R | | 27.4 26.0 | 26.5 | 1.5 | 25.0 | 1414 |
| 6 | Y | | 26.9 25.0 | 25.4 | 1.5 | 23.9 | 1317 |
| 7 | B x W | 10:15 | 26.3 25.0 | 25.4 | 1.5 | 23.9 | 1217 |
| 8 | R | | 24.1 23.8 | 23.9 | 1.4 | 22.5 | 1110 |
| 9 | Y | | 23.8 22.6 | 22.8 | 1.4 | 21.4 | 1012 |
| 10 | B x W | 10:17 | 22.2 21.0 | 21.4 | 1.4 | 20.0 | 903 |
| 11 | R | | 20.0 19.0 | 19.3 | 1.4 | 17.9 | 812 |
| 12 | Y | | 19.0 18.0 | 18.0 | 1.4 | 16.6 | 764 |
| 13 | B x W | 10:19 | 17.0 16.1 | 15.4 | 1.4 | 14.0 | 645 |
| 14 | R | | 15.6 14.8 | 14.2 | 1.4 | 12.8 | 587 |
| 15 | Y | | 13.9 13.2 | 12.6 | 1.4 | 11.2 | 510 |
| 16 | B x W | 10:22 | 10.6 9.8 | 9.2 | 1.4 | 7.8 | 412 |
| 17 | R | | 7.6 6.9 | 6.2 | 1.4 | 4.8 | 305 |
| 18 | | | | | | | |
| 19 | | | | | | | |
| 20 | | | | | | | |

Boat 620 to 00 N

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 457 Pg. 44 — Profile — Job No. E42 Division No. — Notes Red. CEM Plotted — No. — X-Sec.
Survey of RSZ56 ERROR STUDY — Date 1/18/54 Date — No.
Survey by F. H. BLANCHARD — Notes Chkd. KK Checked
Indexed E. T. Thomas Date — Notes — Date 1-21-54 Date — No.

| STATION # | Color | B. S. Time | H. I. Depth | F. S. Bottom | ELEV. Tide | Boat Adj. Depth | Remarks 624+00N |
|---|---|---|---|---|---|---|---|
| 1 | B×W | 10:36 | 30.4 | 29.8 | 1.3 | 28.5 | 1786 |
| 2 | R | | 29.7 | 29.2 | 1.3 | 27.9 | 1687 |
| 3 | Y | | 29.9 | 29.5 | 1.3 | 28.2 | 1540 |
| 4 | B×W | 10:40 | 28.8 | 27.3 | 1.3 | 26.0 | 1408 |
| 5 | R | | 30.2 | 26.0 | 1.3 | 24.7 | 1290 |
| 6 | Y | | 29.1 | 25.0 | 1.3 | 23.7 | 1199 |
| 7 | B×W | 10:43 | 27.7 | 24.4 | 1.3 | 23.1 | 1112 |
| 8 | R | | 27.1 | 24.2 | 1.3 | 22.9 | 1034 |
| 9 | Y | | 26.3 | 23.3 | 1.3 | 22.0 | 951 |
| 10 | B×W | 10:46 | 25.8 | 22.3 | 1.3 | 21.0 | 860 |
| 11 | R | | 25.5 | 21.2 | 1.3 | 19.9 | 780 |
| 12 | Y | | 24.8 | 19.2 | 1.3 | 17.9 | 712 |
| 13 | B×W | 10:49 | 24.6 | 18.3 | 1.3 | 17.0 | 648 |
| 14 | R | | 24.3 | 16.0 | 1.3 | 14.7 | 571 |
| 15 | Y | | 23.9 | 13.7 | 1.3 | 12.4 | 514 |
| 16 | B×W | 10:51 | 23.6 | 12.6 | 1.3 | 11.3 | 463 |
| 17 | R | | 23.5 | 12.3 | 1.3 | 11.0 | 414 |
| 18 | Y | | 23.0 | 8.6 | 1.3 | 7.3 | 337 |
| 19 | B×W | 10:53 | 22.4 | 7.7 | 1.3 | 6.4 | 327 |
| 20 | R | | 22.3 | | | | |

76L298 307 8-53

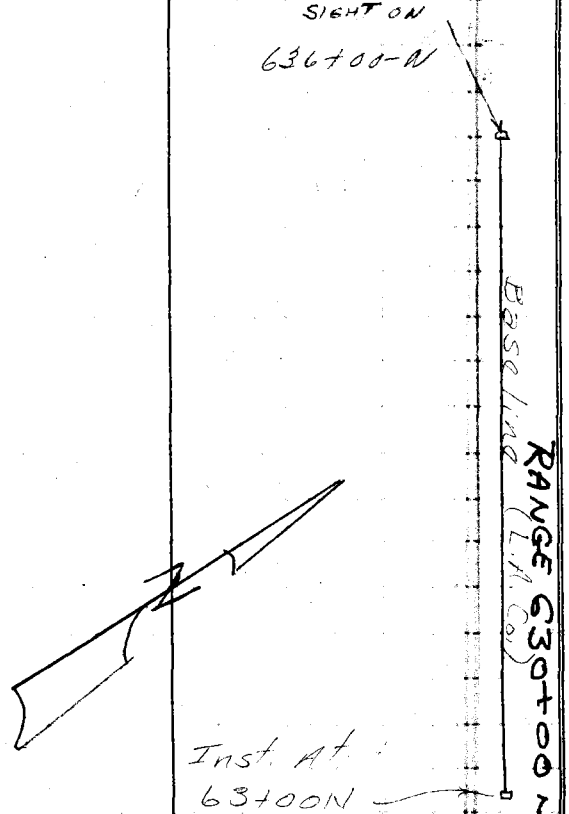
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

RANGE 630+00-N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | |
| | 1 | B+W | 11:15 | 90° 00' | |
| | 2 | R | | 90° 00' | |
| | 3 | Y | | 90° 00' | |
| | 4 | B+W | 11:18 | 90° 00' | |
| | 5 | R | | 90° 00' | |
| | 6 | Y | | 90° 00' | |
| 630+00 N / 637+00 N | 7 | B+W | 11:20 | 90° 22' | |
| | 8 | R | | 90° 00' | |
| | 9 | Y | | 90° 00' | |
| | 10 | B+W | 11:22 | 90° 00' | |
| | 11 | R | | 90° 00' | |
| | 12 | Y | | 90° 00' | |
| | 13 | B+W | 11:24 | 90° 00' | |
| | 14 | R | | 90° 00' | |
| | 15 | Y | | 90° 00' | |
| | 16 | B+W | 11:27 | 90° 00' | |




Profile
Notes Red. Plotted Job No. 2443 Division No.
No. Date Date Survey of
X-Sec. Notes Chkd Checked Survey by Notes J.C.G Date 12-15-53
No. Date Date Map No. Indexed C. Johnson
F. B. 1507 Pg. 40

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

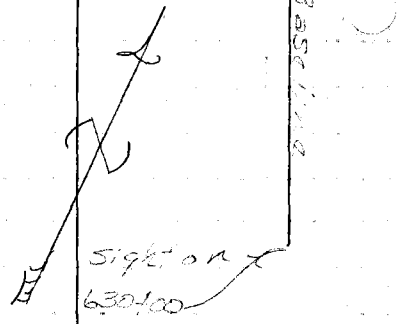
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1507 Pg. 196 Job No. 8412 Division No. Profile
Survey of Range Surveys No. X-Sec.
Survey by H. C. Johnson Notes J.C.G. Plotted Date
Indexed H. C. Johnson Date Notes Chkd. Checked
Date Date No.

RANGE 6367 00 N
6367 00 N Baseline
630+00 N Baseline

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 636+00N |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks |
| | 1 | B&W | 11:41 | 90° 00' | Inst. At 636+00N |
| | 2 | R | | 90° 00' | |
| | 3 | Y | | 90° 00' | |
| | 4 | B&W | 11:44 | 90° 00' | |
| | 5 | R | | 90° 00' | |
| | 6 | Y | | 90° 00' | |
| | 7 | B&W | 11:46 | 90° 00' | |
| | 8 | R | | 90° 00' | |
| | 9 | Y | | 90° 00' | |
| | 10 | B&W | 11:50 | 90° 00' | |
| | 11 | R | | 89° 08' | |
| | 12 | Y | | 90° 00' | |
| | 13 | B&W | 11:52 | 90° 00' | Sight on x |
| | 14 | R | | 90° 00' | 630+00 |
| | 15 | Y | | 90° 00' | |
| | 16 | B&W | 11:55 | 90° 00' | |
| | 17 | R | | 90° 00' | |
| | 18 | Y | | 90° 00' | |



76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No. 8412 Division No.____ F.B. 1377 Pg. 177
No.____ Date____ Date____ Survey of BEACH ST STUDIES
X-Sec. Notes Chkd____ Checked____ Survey By [redacted] DKS Date 12-12-53
No.____ Date____ Date____ Map No.____ Index [redacted] O. Jabonero

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in 630+00N | 630+00N |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| Baseline | 1 | B+W | 11:15 | 67° 09' | | |
| | 2 | R | | 65° 15' | | |
| | 3 | Y | | 63° 10' | | |
| | 4 | B+W | 11:17 | 61° 00' | | |
| | 5 | R | | 58° 45' | | |
| | 6 | Y | | 56° 09' | | |
| * | 7 | B+W | 11:20 | 53° 33' | | |
| | 8 | R | | 51° 14' | | |
| | 9 | Y | | 48° 27' | | |
| | 10 | B+W | 11:22 | 45° 49' | | |
| | 11 | R | | 42° 43' | | |
| | 12 | Y | | 39° 58' | | |
| | 13 | B+W | 11:24 | 35° 37' | | |
| | 14 | R | | 31° 15' | | |
| | 15 | Y | | 27° 45' | | |
| 630+00N | 16 | B+W | 11:27 | 21° 36' | | |
| | 17 | R | | | | |
| | 18 | Y | | | | |
| | 19 | B+W | | | | |
| | 20 | R | | | | |

CCT-IN 630+00N

F.B. 1507 Pg. 98 Job No. 8412 Division No. Notes Red. Plotted
Survey of BEACH EROSION STUDIES Date Date
Survey F.H. PRICHARD Notes DHS Notes Chkd Checked
Indexed C. JOHNSON Date 12-15-53 Date Date
Profile No. X-Sec. No.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in | 636+00N |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B+W | 11:41 | 68° 03' | | |
| | 2 | R | | 65° 58' | | |
| | 3 | Y | | 63° 53' | | |
| | 4 | B+W | 11:44 | 62° 13' | | |
| Baseline / Baseline | 5 | R | | 59° 23' | | |
| | 6 | Y | | 56° 27' | | |
| | 7 | B+W | 11:47 | 52° 49' | | |
| | 8 | R | | 49° 16' | | |
| | 9 | Y | | 48° 22' | | |
| C.I. 686+00N | 10 | B+W | 11:50 | 47° 05' | | |
| | * 11 | R | | 45° 20' | | |
| | 12 | Y | | 43° 38' | | |
| 630+00N | 13 | B+W | 11:52 | 41° 43' | | |
| | 14 | R | | 38° 29' | | |
| | 15 | Y | | 34° 18' | | |
| 636+00N | 16 | B+W | 11:55 | 29° 14' | | |
| | 17 | R | | 23° 14' | | |
| | 18 | Y | | 21° 00' | | |
| | 19 | B+W | | | | |
| | 20 | R | | | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ Notes Red CEM Plotted ____ Job No. PWE Division No. ____
X-Sec. No. ____ Date 1/18/54 Date ____ Survey of ____
Notes Chkd. EK Checked ____ Survey by EHB Notes ____ Date 2-15-54
Date 1-22-54 Date ____ Map No. ____ Index ____

F.B. 1507 Pg. 190

| STATION | B. S. | H. I. | F. S. | ELEV. | BOAT | 630+00N | |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | Adj. Depth | Remarks | |
| 1 B W | 11:16 | 27.0 / 26.0 | 26.3 | 1.2 | 25.1 | 1424 | |
| 2 R | | 26.0 / 25.1 | 25.4 | 1.2 | 24.2 | 1302 | |
| 3 Y | | 25.0 / 24.0 | 24.3 | 1.2 | 23.1 | 1186 | |
| 4 B W | 11:18 | 24.0 / 23.0 | 23.0 | 1.2 | 21.8 | 1082 | |
| 5 R | | 23.0 / 22.8 | 22.3 | 1.2 | 21.1 | 989 | |
| 6 Y | | 21.6 / 21.0 | 21.2 | 1.2 | 20.0 | 862 | |
| 7 B W | 11:21 | 21.0 / 20.0 | 20.3 | 1.2 | 19.1 | 805 | |
| 8 R | | 19.9 / 19.0 | 19.3 | 1.2 | 18.1 | 747 | |
| 9 Y | | 18.0 / 17.0 | 17.3 | 1.2 | 16.1 | 677 | |
| 10 B W | 11:23 | 16.0 / 15.0 | 15.3 | 1.2 | 14.1 | 617 | |
| 11 R | | 13.8 / 12.9 | 13.2 | 1.2 | 12.0 | 554 | |
| 12 Y | | 12.3 / 11.0 | 11.7 | 1.2 | 10.5 | 503 | |
| 13 B W | 11:25 | 10.2 / 9.5 | 10.5 | 1.2 | 9.3 | 430 | |
| 14 R | | 8.6 / 7.2 | 7.9 | 1.2 | 6.7 | 364 | |
| 15 Y | | 7.2 / 6.8 | 7.7 | 1.2 | 6.5 | 316 | |
| 16 B W | 11:28 | 6.8 | 5.5 | 1.2 | 4.3 | 238.0008 | |

BOAT 630+00N

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 100 Job No. 8412 Division No. Profile
Survey of Beach Erosion Study Notes Rcd. CEM Plotted No.
Survey by EHB Notes A.S. Date 1/18/54 X-Sec.
Indexed C. Tabanao Date Notes Chkd. Checked No.
Date 1-22-54 Date

| STATION # | Color | B. S. Time | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|
| | | | | Boat | | | 6364 00N |
| 1 | BxW | 11 41 | 27.0 25.7 | 26.1 | 1.2 | 24.9 | 1489 |
| 2 | R | | 25.3 24.8 | 25.0 | 1.2 | 23.8 | 1346 |
| 3 | Y | | 24.3 24.1 | 24.5 | 1.2 | 23.3 | 1285 |
| 4 | BxW | 11 44 | 24.3 23.0 | 23.4 | 1.2 | 22.2 | 1139 |
| 5 | R | | 23.2 21.9 | 22.1 | 1.2 | 20.9 | 1014 |
| 6 | Y | | 21.3 20.5 | 20.8 | 1.2 | 19.6 | 905 |
| 7 | BxW | 11 47 | 20.9 19.0 | 19.3 | 1.2 | 18.1 | 789 |
| 8 | R | | 18.4 17.9 | 18.1 | 1.2 | 16.9 | 709 Rocky Bottom |
| 9 | Y | | 17.3 16.2 | 16.6 | 1.2 | 15.4 | 675 |
| 10 | BxW | 11 49 | 15.1 14.4 | 14.6 | 1.2 | 13.4 | 645 |
| 11 | R | | 13.1 12.6 | 12.8 | 1.2 | 11.6 | 598 607 610 on 601 off -9 |
| 12 | Y | | 12.1 11.4 | 11.6 | 1.2 | 10.4 | 572 |
| 13 | BxW | 11 52 | 11.5 10.6 | 10.9 | 1.1 | 9.8 | 532 |
| 14 | R | | 10.7 9.3 | 9.8 | 1.1 | 8.7 | 477 |
| 15 | Y | | 8.2 7.8 | 7.9 | 1.1 | 6.8 | 409 |
| 16 | BxW | 11 55 | 9.7 8.2 | 8.7 | 1.1 | 7.6 | 336 |
| 17 | R | | 8.3 7.2 | 7.5 | 1.1 | 6.4 | 264 |
| 18 | Y | | 6.2 5.0 | 5.4 | 1.1 | 4.3 | 230 |
| 19 | BxW | | | | | | |
| 20 | R | | | | | | |

Boat 6357 00N

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted. Job No. 2611 Division No.
No. Date Date Survey of F. H. Brown and Assoc. F.B. 1507 Pg. 201
X-Sec. Notes Chkd. Checked Survey by F. H. Brown and Assoc. Date 12-15-53
No. Date Date Map No. Indexed C. Johnson Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 638+11 82 |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | 1 | B&W | 12:06 | 91°32'30" | SIGHT ON 640+00 N |
| | 2 | R | | " | |
| | 3 | Y | | " | |
| | 4 | B&W | 12:08 | " | |
| | 5 | R | | " | |
| | 6 | Y | | " | |
| | 7 | B&W | 12:10 | " | |
| | 8 | R | | " | |
| | 9 | Y | | " | |
| | 10 | B&W | 12:12 | 90°58' | |
| | 11 | R | | 91°32'30" | |
| | 12 | Y | | " | |
| | 13 | B&W | 12:14 | " | |
| | 14 | R | | " | |
| | 15 | Y | | " | |
| | 16 | B&W | 12:17 | " | |
| | 17 | R | | " | |
| | 18 | Y | | 90°30' | |
| | 19 | B&W | 12:19 | " | ← 91°32'30"? |
| | 20 | R | | " | |

638+11.82 N Base Line

638+00 N 3850.00 E

BASE LINE RANGE 638+11.82 N

91°32'30"

638+11.82 RANGE

F. B. 1507 PG. 202 | Job No. 2412 | Division No. | Notes Red. | Plotted | Profile

Survey of BEACH EROSION STUDIES | Date | Date | No.

Survey by | Notes E.R. | Notes Chkd. | Checked | X-Sec.

Indexed C. Johnson | Date | Date | Date | No.

RANGE 638+11 89 N
638+11 89 N. Baseline

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. sight | | | | | |
| 636+00 N. Baseline | # 21 | Color | Time Hor. Ang. | | |
| | | | | | Range |
| | | | | | 638+11 89 |

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No. 8412 Division No.____ F.B. 1507 Pg. 203
No.____ Date____ Date____ Survey of BEACH & ROAD STUDIES
X-Sec. Notes Chkd.____ Checked____ Survey by____ Note DRS Date 12-15-53
No.____ Date____ Date____ Map No.____ Index

| STATION | B. S. | H. I. | F. S. | ELEV. | Cut-in 638+11.82 N | |
|---|---|---|---|---|---|---|
| Inst. Sight At OH | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B+W | 12:05 | 52° 45' | | |
| | 2 | R | | 61° 08' | | |
| | 3 | Y | | 59° 31' | | |
| | 4 | B+W | 12:08 | 57° 33' | | |
| | 5 | R | | 55° 37' | | |
| | 6 | Y | | 53° 36' | | |
| | 7 | B+W | 12:10 | 50° 29' | | |
| | 8 | R | | 48° 16' | | |
| | 9 | Y | | 45° 41' | | |
| | 10 | B+W | 12:12 | 44° 21' | | |
| | 11 | R | | 43° 17' | | |
| | 12 | Y | | 41° 49' | | |
| | 13 | B+W | 12:14 | 40° 07' | | |
| | 14 | R | | 38° 21' | | |
| | 15 | Y | | 35° 52' | | |
| | 16 | B+W | 12:17 | 32° 32' | | |
| | 17 | R | | 29° 20' | | |
| | 18 | Y | | 26° 54' | | |
| | 19 | B+W | 12:18 | 22° 57' | | |
| | 20 | R | | 18° 39' | | |

Bal. S.E. Line
Base Line
630+00 N
638+11.82 N

CUT-IN 638+11.82 N

F.B. 1507 PG. 204 Job No. 8412 Division No. Notes Red. Plotted. Profile

Survey of BEACH EROSION STUDIES Date Date No.

Survey by F. H. LEONARD Notes Notes Chkd. Checked X-Sec.

Indexed O. JOHNSON Date Date Date No.

C.O.T. IN 638+11.89 N

630+00 N BASELINE

638+11.89 N BASELINE

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight | | | | | |
| At OH | # | Color | Time | Hor. Ang. | |
| | 21 | Y | | 15° 51' | |
| | | | | | C.O.T. IN |
| | | | | | 638+11.89 N |

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile
Notes Red CEM Plotted Job No. 8418 Division, No.
No. Date 1/18/54 Date Survey of
X-Sec. Notes Chkd KK Checked Survey by EHB Notes by CG Date 12-15-53
No. Date 1-22-54 Date Map No. Indexed

F.B. 10207 Pg. 265

638+11.89 EOT

BOT 638+11 89 N

| STATION # | Color | B. S. Time | H. I. Meas. Depth | F. S. Bottom | ELEV. Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | BW | 12 06 | 25.3 25.7 | 25.9 | 1.1 | 24.8 | 1498 |
| 2 | R | | 24.1 24.5 | 24.5 24.8 | 1.1 | 23.4 23.7 | 1402 |
| 3 | Y | | 23.0 23.6 | 24.4 | 1.1 | 23.3 23.6 | 1320 |
| 4 | BW | 12 09 | 23.2 23.6 | 23.7 | 1.1 | 22.6 22.8 | 1224 |
| 5 | R | | 22.2 22.5 | 22.7 | 1.1 | 21.6 | 1181 |
| 6 | Y | | 21.8 22.1 | 22.0 | 1.1 | 20.9 | 1061 |
| 7 | BW | 12 10 | 20.8 21.3 | 21.0 | 1.1 | 19.9 | 952 |
| 8 | R | | 20.9 19.6 | 20.0 | 1.1 | 18.9 | 882 |
| 9 | Y | | 18.3 19.1 | 18.6 | 1.1 | 17.5 | 810 |
| 10 | BW | 12 12 | 17.1 17.9 | 17.4 | 1.1 | 16.3 | 777 |
| 11 | R | | 16.7 17.2 | 16.9 | 1.1 | 15.8 | 741 |
| 12 | Y | | 15.5 17.3 | 16.3 | 1.1 | 15.2 | 710 |
| 13 | BW | 12 14 | 13.5 13.8 | 14.4 | 1.1 | 13.3 | 670 |
| 14 | R | | 12.6 13.3 | 13.1 | 1.1 | 12.0 | 629 |
| 15 | Y | | 12.1 12.4 | 12.7 | 1.1 | 11.6 | 577 |
| 16 | BW | 12 16 | 10.3 11.4 | 10.7 | 1.1 | 9.6 | 508 |
| 17 | R | | 9.7 10.2 | 10.2 | 1.1 | 9.1 | 449 |
| 18 | Y | | 9.3 9.8 | 9.8 | 1.1 | 8.7 | 412 |
| 19 | BW | 12 19 | 7.8 8.2 | 8.2 | 1.1 | 7.1 | 339 |
| 20 | R | | 7.7 7.9 | 7.7 | 1.1 | 6.6 | 271 |

F.B. 1587 Pg. 106 | Job No. 8412 Division No. | Notes Red. CEM | Plotted | Profile

Survey of BEACH EROSSION Studies | Date 1/18/54 | Date | No.

Survey by FH.B | Notes K | Notes Chkd. K F | Checked | X-Sec.

Indexed C. Tahnson | Date | Date 1-22-54 | Date | No.

BOAT 6384 11 89 N

| STATION | B.S. | H.I. | F.S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| # | | Head Depth | Bottom Tide | Adj. Depth | |
| 21 Y | Color Time | 7.3 | 6.5 | 5.4 | 229 |
| | 1221 | 61 | 1.1 | | |
| | | | | 6384 11.89 | 3.47 |

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76L298 507 10-51

Do not extend notes this side of this line.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

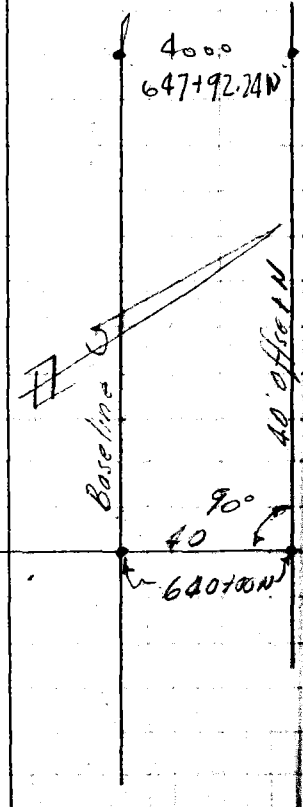
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted. Job No. 54L2 Division No.
No. Date. Date. Survey of
X-Sec. Notes Chkd. Checked. Survey by Date 12-16-53
No. Date. Date. Map No. Indexed C. Johnson

F.B. 1507 Pg. 207

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE | Remarks |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | | |
| | 1 | B&W | 723 | 90°00 | | |
| | 2 | R | | 90°00 | | |
| | 3 | Y | | 90°00 | | |
| 40 N offset | 4 | B&W | 725 | 90°00 | | |
| | 5 | R | | 90°00 | | |
| | 6 | Y | | 90°00 | | |
| 40 W offset | 7 | B&W | 729 | 90°00 | | |
| | 8 | R | | 90°00 | | |
| | 9 | Y | | 90°22' | | |
| | 10 | B&W | 731 | 90°00 | | |
| | 11 | R | | 90 00 | | |
| | 12 | Y | | 90 00 | | |
| 640+00 N | 13 | B&W | 734 | 90 00 | | |
| | 14 | R | | 90 00 | | |
| 647+92.24 N | 15 | Y | | 90 00 | | |
| | 16 | B&W | 737 | 90 00 | | |
| | 17 | R | | 90 00 | | |
| | 18 | Y | | 9000 | | |
| | 19 | B&W | 741 | 9000 | | |
| | 20 | R | | 90 00 | | |




RANGE 640+00 N

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 4507 Pg. 708 | Job No. 2312 Division No. | Notes Red. | Plotted | No. | Profile
Survey of BEACH ST. BETWEEN 33RD AND 37TH STREETS | Date | Notes Chkd. | Checked | No. | X-Sec.
Survey by J. D. [illegible] RD | Notes | Date | Date | Date
Indexed C. Johnson | Date

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE 6407100 N |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | 21 | Y | | 90 00 | |
| | 22 | B&W | 7 43 | 9000 | |
| | 23 | R | | 9000 | |
| | 24 | Y | | 9002 | |
| | 25 | B&W | | | |
| | 26 | R | | | |
| RANGE 6407100 N 40'N of first | | | | | |
| 6407100 40'N of first | | | | | |
| 6471 52,74 | | | | | |

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. Division No. F.B. 1507 Pg. 209
No. Date Date Survey of
X-Sec. Notes Chkd. Date Checked Survey by
No. Date Date Map No. Indexed

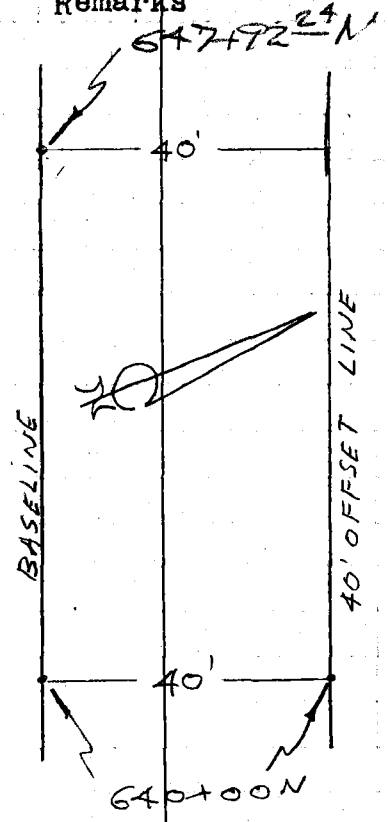
| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. At | Sight On | # Color | Time | Hor. Ang. |
| | | 1 B&W | 7:22 | 64° 50 |
| | | 2 R | | 63° 29 |
| | | 3 Y | | 62° 12 |
| | | 4 B&W | 7:25 | 60° 27 |
| | | 5 R | | 58° 23 |
| | | 6 Y | | 55° 58 |
| | | 7 B&W | 7:28 | 53° 06 |
| | | 8 R | | 50° 20 |
| | | * 9 Y | | 47° 04 |
| | | 10 B&W | 7:31 | 44° 14 |
| | | 11 R | | 41° 36 |
| | | 12 Y | | 39° 55 |
| | | 13 B&W | 7:33 | 38° 11 |
| | | 14 R | | 36° 31 |
| | | 15 Y | | 34° 51 |
| | | 16 B&W | 7:36 | 33° 25 |
| | | 17 R | | 31° 40 |
| | | 18 Y | | 29° 03 |
| | | 19 B&W | 7:40 | 26° 10 |
| | | 20 R | | 23° 05 |

CUT-IN 640+00N

647+92.24 N 40' OFFSET

640+00N 40' OFFSET

Remarks




CUT-IN 640+00N

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1507 Pg. 216 Job No. 2912 Division No. Notes Red. Plotted
Survey of BEACH, ETC. SURVEY Date Date No.
Survey by Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.
Profile

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 640+00N |
|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| CUT-IN 640+00N 647+92.24 | 640+00 N 40' OFFSET | 21 | Y | | 20° 21 | |
| | | 22 | B&W | 7:43 | 17° 00 | |
| | | 23 | R | | 15° 02 | |
| | | 24 | Y | | 12° 05 | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red CEM Plotted Job No. 2412 Division No. F.B. 1507 Pg. 211
No. Date 1/18/54 Date Survey of
X-Sec. Notes Chkd. DKS Checked Surveyed by E. H. BLANCHARD Noted DKS Date 12-16-53
No. Date 1-22-54 Date Map No. Index C. Johnson

Boat 640+00 N

| STATION | B.S. | H.I. | F.S. | ELEV. | Boat | 640+00 N | |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | Adj. Depth | Remarks | |
| | | 31.4 | | 5.1 | 25.5 | | |
| 1 B+W | 7:22 | 30.2 | 30.6 | 4.1 | ~~26.5~~ | 1645 | 1685-40 |
| | | 30.9 | | | 25.0 | | |
| 2 R | | 29.7 | 30.1 | 4.1 | ~~26.0~~ | 1547 | 1587 |
| | | 29.3 | | | 23.7 | | |
| 3 Y | | 28.6 | 28.8 | 4.1 | ~~24.7~~ | 1462 | 1502 |
| | | 28.2 | | | 22.6 | | |
| 4 B+W | 7:25 | 27.4 | 27.7 | 4.1 | ~~23.6~~ | 1357 | 1397 |
| | | 28.0 | | | 22.4 | | |
| 5 R | | 27.3 | 27.5 | 4.1 | ~~23.4~~ | 1247 | 1287 |
| | | 26.9 | | 5.1 | 21.2 | | |
| 6 Y | | 26.0 | 26.3 | 4.1 | ~~22.2~~ | 1133 | 1173 |
| | | 25.6 | | 5.0 | 20.2 | | |
| 7 B+W | 7:28 | 25.0 | 25.2 | 4.0 | ~~21.2~~ | 1015 | 1055 |
| | | 24.2 | | | 19.3 | | |
| 8 R | | 23.6 | 23.8 | 4.0 | ~~19.8~~ | 915 | 955 |
| | | 22.7 | | | 17.1 | | |
| 9 Y | | 21.8 | 22.1 | 4.0 | ~~18.1~~ | 806 | ~~851~~ 851 on B96 off |
| | | 21.1 | | | 15.6 | | |
| 10 B+W | 7:30 | 20.3 | 20.6 | 4.0 | ~~16.6~~ | 731 | 771 |
| | | 18.9 | | | 13.2 | | |
| 11 R | | 17.9 | 18.2 | 4.0 | ~~14.2~~ | 663 | 703 |
| | | 17.3 | | | 11.7 | | |
| 12 Y | | 16.9 | 16.7 | 4.0 | ~~12.7~~ | 623 | 663 |
| | | 17.2 | | 5.0 | 11.6 | | |
| 13 B+W | 7:33 | 16.3 | 16.6 | 4.0 | ~~12.6~~ | 583 | 623 |
| | | 16.1 | | 4.9 | 11.1 | | |
| 14 R | | 15.9 | 16.0 | 3.9 | ~~12.1~~ | 546 R or RY | 586 Bottom |
| | | 15.7 | | | 9.9 | | |
| 15 Y | | 14.3 | 14.8 | 3.9 | ~~10.9~~ | 511 | 551 |
| | | 16.5 | | | 10.5 | | |
| 16 B+W | 7:36 | 14.9 | 15.4 | 3.9 | ~~11.5~~ | 483 | 523 |
| | | 15.9 | | | 9.8 | | |
| 17 R | | 14.1 | 14.7 | 3.9 | ~~10.8~~ | 449 | 489 |
| | | 12.3 | | 4.9 | 6.9 | | |
| 18 Y | | 11.5 | 11.8 | 3.9 | 7.9 | 400 | 440 |
| | | 11.7 | | 4.8 | 6.5 | | |
| 19 B+W | 7:39 | 11.1 | 11.3 | 3.8 | 7.5 | 349 | 389 |
| | | 10.1 | | | 5.7 | | |
| 20 R | | 9.9 | 10.0 | 3.8 | 6.2 | 298 | 338 |

F.B. 1507 PG 21 Job No. 54-2 Division No. Notes Rcd. CEM Plotted
Survey of EROSION STUDY Date 1/18/54 Profile No.
Survey by E. H. BLANCHARD Notes Chkd. Date X-Sec. No.
Indexed C. Tabulation Date Checked Date

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | Boat | 640+00 ℓ |
|---|---|---|---|---|---|---|
| # Color | Time | Meas Depth | Bottom Tide | | Adj. Depth | Remarks |
| 21 Y | | 9.2<br>7.7 | 8.2 | 9.8<br>~~3.8~~ | 3.4<br>~~4.4~~ | 254 294 - 40 |
| 22 B+W | 7:43 | 10.8<br>10.0 | 10.3 | 4.8<br>~~3.8~~ | 5.5<br>~~6.5~~ | 202<br>Drop 242 |
| 23 R | | 8.9<br>7.9 | 8.2 | 4.7<br>~~3.7~~ | 3.5<br>~~4.5~~ | 173 213 |
| 24 Y | | 5.9<br>5.1 | 5.4 | 4.2<br>~~3.7~~ | .7<br>~~1.7~~ | 130 170 |

BOAT 640+00 ℓ

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Same { 641+32.08 = RANGE 641+31.24 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | |
| | 1 | B&W | 7:57 | 91°10'40" | |
| | 2 | R | | " " | |
| | 3 | Y | | " " | |
| | 4 | B&W | 8:01 | " " | |
| | 5 | R | | " " | |
| | 6 | Y | | " " | |
| | 7 | B&W | 8:05 | 91°10'40" | |
| | 8 | R | | " " | |
| | 9 | Y | | " " | |
| | 10 | B&W | 8 08 | " " | |
| | 11 | R | | " " | |
| | 12 | Y | | " " | |
| | 13 | B&W | 8 10 | " " | |
| | 14 | R | | " " | |
| | 15 | Y | | " " | |
| | 16 | B&W | 8 13 | 91°10'40" | |
| | 17 | R | | " " | |
| | 18 | Y | | | |
| | 19 | B&W | | | |
| | 20 | R | | | |

40' N offset

641+32.08

641+92.24

Range

135' to 08

91°10'40"

40'

641+31.24

641+32.08

RANGE 641+32.08 N

Profile Notes Red. Plotted Job No. 2213 Division No.
No. Date Date Survey of L.A. Co. Surveyor
X-Sec. Notes Chkd. Checked Survey by F. H. BLANCHARD Date 12-16-53
No. Date Date Map No. Indexed C. Johnson

F. B. 1502 Pg. 213

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

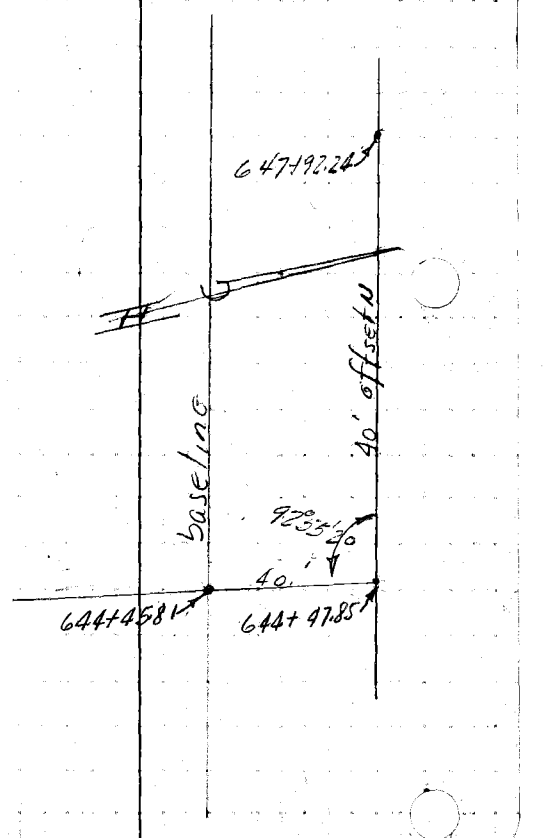
Do not extend notes this side of this line.

F.B. 1507 Pg. 214 Job No. 3112 Division No. Notes Red. Plotted
Survey of BASELINE STUDIES Date Date No.
Survey by [illegible] Notes Chkd. Checked X-Sec.
Indexed W. C. Johnson Date Date Date Profile No.

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. At | Sight On | # Color | Time | Hor. Ang. |
| | | 1 B&W | 8:44 | 92°55'20" |
| | | 2 R | | " " |
| | | 3 Y | | " " |
| | | 4 B&W | 8:46 | " " |
| | | 5 R | | " " |
| | | 6 Y | | " " |
| | | 7 B&W | 8:48 | " " |
| | | 8 R | | " " |
| | | 9 Y | | " " |
| | | 10 B&W | 8:50 | 92°55'20" |
| | | 11 R | | " " |
| | | 12 Y | | " " |
| | | 13 B&W | 8:54 | " " |
| | | 14 R | | " " |

RANGE 644+45.81N

Remarks



76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

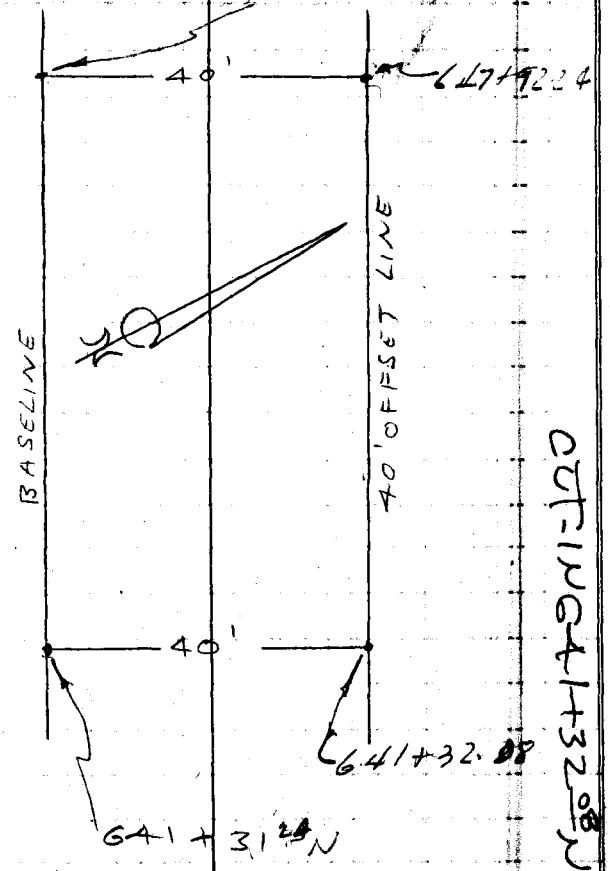
Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 2412 Division No.
No. Date Date Survey of LOS ANGELES COUNTY F.B. 15507 PG. 21
X-Sec. Notes Chkd. Checked Survey by F. H. BLANCHARD & ASSOC. Date 12-16-52
No. Date Date Map No. Index C. C. Jacobsen

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. |
| | 1 | B & W | 7:57 | 68°05 |
| | 2 | R | | 65°49 |
| | 3 | Y | | 63°32 |
| | 4 | B & W | 8:01 | 60°37 |
| | 5 | R | | 57°21 |
| | 6 | Y | | 53°54 |
| | 7 | B & W | 8:05 | 50°21 |
| | 8 | R | | 46°30 |
| | 9 | Y | | 43°40 |
| | 10 | B & W | 8:08 | 40°54 |
| | 11 | R | | 36°33 |
| | 12 | Y | | 33°44 |
| | 13 | B & W | 8:10 | 30°52 |
| | 14 | R | | 26°19 |
| | 15 | Y | | 27°00 |
| | 16 | B & W | 8:13 | 17°50 |
| | 17 | R | | 14°47 |

CUT-IN 641+31.24 N

Remarks 647+92.24 N




CUT-IN 641+32.08 N

647+92.24 N 40' OFFSET

641+31.15 N 40' OFFSET

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1587 Pg. 216 Job No. 8312 Division No. Notes Red. Plotted
Survey of BASELINE CROSSING STUDIES Date Date No.
Survey by [illegible] Notes Chkd. Checked X-Sec.
Indexed C. Johnson Date Date Date No.
Profile

| STATION | B. S. | H. I. | F. S. | ELEV. |
|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. |
| | 1 | B & W | 8:43 | 69°32 |
| | 2 | R | | 67°04 |
| | 3 | Y | | 64°05 |
| | 4 | B & W | 8:46 | 61°33 |
| | 5 | R | | 58°34 |
| | 6 | Y | | 54°51 |
| | 7 | B & W | 8:48 | 51°17 |
| | 8 | R | | 47°18 |
| | 9 | Y | | 44°09 |
| | 10 | B & W | 8:50 | 41°30 |
| | 11 | R | | 38°55 |
| | 12 | Y | | 34°47 |
| | 13 | B & W | 8:54 | 31°37 |
| | 14 | R | | 27°16 |

CUT IN 644+45 8/N

Remarks

644+45 8/N
644+47.85N
40'
BASELINE
40' OFFSET LINE
40'
638+12.9E
638+11 8/N

CUT IN 644+45 8/N 40' OFFSET
638+11 8/N 40' OFFSET

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red CEM Plotted _____ Job No. 8412 Division No. _____ F.B. 1617 Pg. 217
No. _____ Date 1/18/54 Date _____ Survey of 1953-54 SOUNDINGS
X-Sec. Notes Chkd. 54 Checked _____ Survey by BLANCHARD Notes D.K.S. Date 12-14-53
No. _____ Date 1-22-54 Date _____ Map No. _____ Plotted _____ Date _____

Boat 641+36.0 N

Boat 641+36.0 N

| STATION | B. S. | H. I. | F. S. | ELEV. | Adj. Depth | Remarks | |
|---|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | | | |
| 1 B+W | 7:57 | 30.7 29.9 29.5 | 30.2 | 4.5 3.5 | 25.7 26.7 24.1 | 1685 | 1725-40 |
| 2 R | | 28.2 27.7 | 28.6 | 4.5 3.5 | 25.1 22.8 | 1501 | 1541-40 |
| 3 Y | | 26.9 27.5 | 27.2 | 4.4 3.4 | 23.8 21.6 | 1340 | 1380 |
| 4 B+W | 8:01 | 25.3 24.8 | 26.0 | 3.4 | 22.6 20.0 | 1178 | 1218 |
| 5 R | | 24.2 23.3 | 24.4 | 3.4 | 21.0 18.6 | 1022 | 1062 |
| 6 Y | | 22.9 21.4 | 23.0 | 4.4 3.4 1.3 | 19.6 16.5 | 890 | 930 |
| 7 B+W | 8:05 | 20.5 18.7 | 20.8 | 3.3 | 19.5 13.9 | 776 | 816 |
| 8 R | | 17.9 16.3 | 18.2 | 3.3 | 14.7 11.7 | 670 | 710 |
| 9 Y | | 15.9 16.2 | 16.0 | 3.3 4.3 | 12.7 11.1 | 602 | 642 |
| 10 B+W | 8:08 | 15.0 14.2 | 15.4 | 3.2 4.2 | 11.1 9.7 | 541 | 581 |
| 11 R | | 13.8 13.5 | 13.9 | 3.2 | 10.7 8.6 | 458 | 498 |
| 12 | | 12.4 11.5 | 12.8 | 3.2 | 9.6 6.6 | 410 | 450 |
| 13 B+W | 8:11 | 10.4 10.1 | 10.8 | 3.2 | 7.6 5.4 | 360 | 400 |
| 14 R | | 9.3 9.6 | 9.6 | 3.2 | 6.4 6.7 | 287 | 327 |
| 15 Y | | 10.5 7.3 | 8.9 | 3.2 | 5.7 2.9 | 229 | 269 |
| 16 B+W | 8:13 | 6.9 5.8 | 7.0 | 3.2 4.2 | 3.8 1.7 | 173 | 213 |
| 17 R | | 4.7 | 4.9 | 3.2 | 1.7 | 136 | 176 |
| 18 Y | | | | | | | |
| 19 B+W | | | | | | | |
| 20 R | | | | | | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1537 Pg. 28 | Job No. 2412 Division No. | Notes Rod. CEM Plotted | Profile
Survey of BEACH EROSION STUDY Date 1/18/54 Date | No. | X-Sec.
Survey H. BLANCHARD Notes Dis. Notes Chkd. Checked
Indexed J. Johnson Date Date 1-22-54 Date | No.

STATION 644+45 ± N

B. S. Time 8:44 8:47 8:49 8:51 8:54

H. I. Meas. Depth

| # | Color | H. I. Meas. Depth | F. S. Bottom | Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|
| 1 | G-W | 29.3 28.6 26.5 | 28.8 | 3.4 2.8 3.4 | 25.4 ~~26.2~~ ~~22.6~~ | 1459 1499-40 Sweep right to caps |
| 2 | R | 25.8 25.3 | 26.0 | 2.6 3.4 | ~~23.4~~ 22.6 | 1300 1340 |
| 3 | Y | 24.4 23.9 | 24.7 | 2.6 3.4 | ~~22.1~~ 21.3 | 1142 1182 |
| 4 | B+W | 23.2 23.2 | 23.4 | 2.5 3.4 | 20.0 ~~20.9~~ 18.9 | 990 1030 |
| 5 | R | 21.9 21.3 | 22.3 | 2.5 3.4 | ~~19.8~~ 17.3 | 915 955 |
| 6 | Y | 19.7 | 20.7 | 2.5 3.4 | ~~18.2~~ 15.8 | 800 840 |
| 7 | B+W | 18.9 18.7 | 19.2 | 2.5 3.3 | ~~16.7~~ 13.5 | 700 740 |
| 8 | R | 15.3 15.7 | 15.8 | 2.5 3.3 | ~~13.3~~ 9.9 | 612 652 Rocky Bottom |
| 9 | Y | 12.9 12.4 | 13.2 | 2.5 3.3 | ~~10.7~~ 8.3 | 548 588 |
| 10 | B+W | 11.2 12.3 | 11.6 | 2.5 3.2 | ~~9.1~~ 8.9 | 480 520 |
| 11 | R | 11.9 10.9 | 12.0 | 2.5 3.1 | ~~9.5~~ 7.2 | 420 460 |
| 12 | Y | 10.1 11.7 | 10.4 | 2.4 3.2 | ~~8.0~~ 5.6 | 330 IR. 13. 370 |
| 13 | B+W | 10.4 8.5 | 10.8 | 3.2 3.4 | ~~8.4~~ 5.9 | 257 297 |
| 14 | R | 7.9 | 8.1 | 3.2 2.4 | 5.7 | 209 249 |
| 15 | Y | | | | | |
| 16 | B+W | | | | | |
| 17 | R | | | | | |
| 18 | Y | | | | | |
| 19 | B+W | | | | | |
| 20 | R | | | | | |

| | | | |
|---|---|---|---|
| Notes Ck'd by | | Survey of | |
| Map No. | | W. O. | Tape No. | St'd. | °F |
| Office Work | | Surveyed by | |
| Checked | | Notes | Date |
| Date | | Indexed | |

F. B. 1507 PG.

F. B. PG.

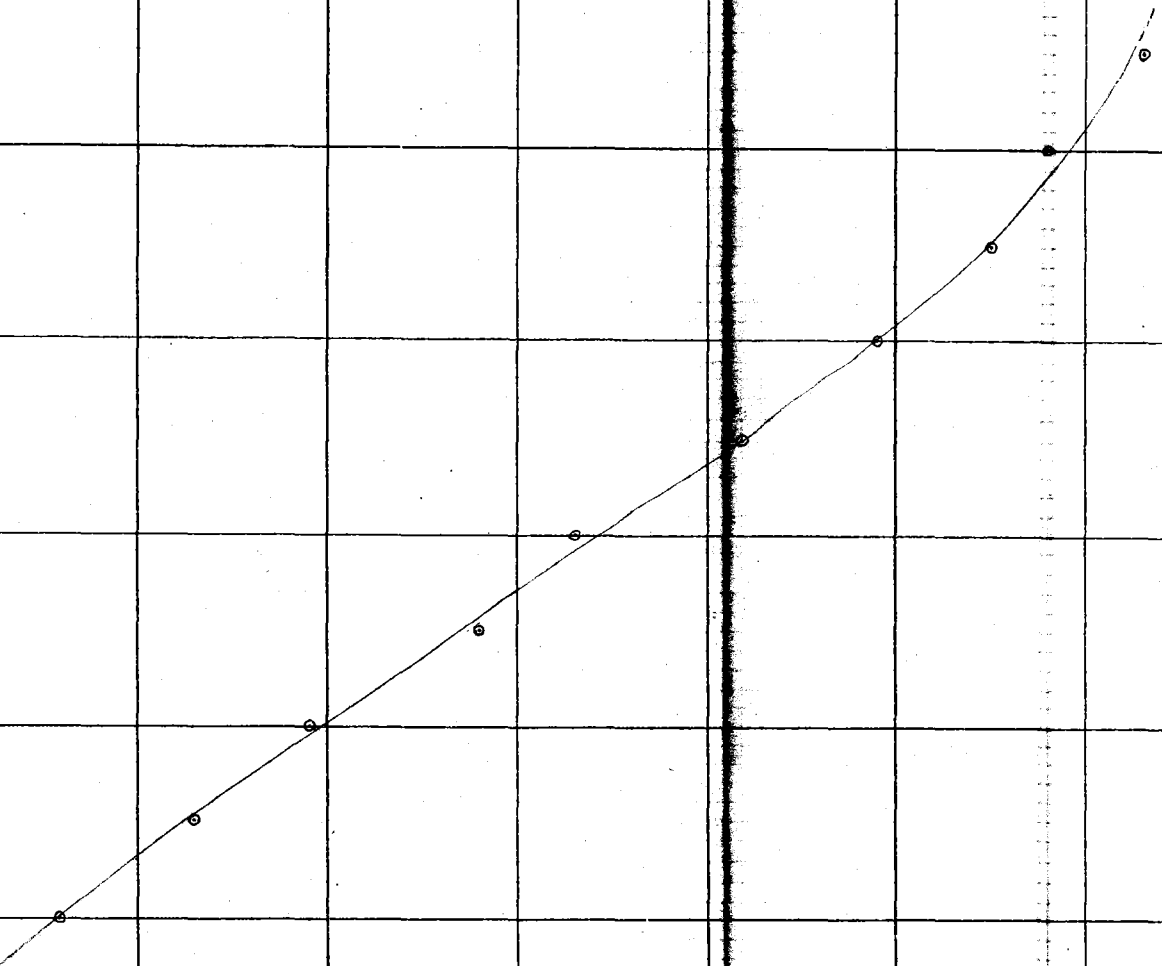
No. St'd. °F

Date

December 17, 1953

13:00
12:30
12:00
11:30
11:00
10:30
10:00
9:30
9:00
8:30
8:00

13:00
12:30
12:00
11:30
11:00



ENGINEERING BLDG. Do not extend notes this side of this line.

ENGINEERING BLDG.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

Note: Any Additions or Changes on Th
Sheet Must be Made or Circled In Re
Ink With Date and Name of Perso
Making Change.

Do not extend notes this side of this line.

F. B. _____ PG. _____

| | |
|---|---|
| Notes Ck'd by | Survey of |
| Map No. | W. O. Tape No. St'd. °F |
| Office Work | Surveyed by |
| Checked | Notes C. J. [redacted] Date |
| Date | Indexed |

F. B. 1002 Pg. 219

TIDE

STANDARD TIME

DEC 17 1953

| HOUR | TIDE |
|---|---|
| 6 00 | 6.8 |
| 6 30 | 6.6 |
| 7 00 | 6.5 |
| 7 30 | 5.9 |
| 8 00 | 5.4 |
| 8 30 | 4.7 |
| 9 00 | 4.1 |
| 9 30 | 3.2 |
| 10 00 | 2.7 |
| 10 30 | 1.8 |
| 11 60 | 1.1 |
| 11 30 | 0.5 |
| 12 00 | 0.2 |
| 12 30 | -0.3 |

Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

76F3095 247 4-53

RETURN TO
LOS ANGELES COUNTY SURVEYOR
728 LOS ANGELES COUNTY
ENGINEERING BLDG.

Note: Any Additions or Changes on This Sheet Must be Made or Circled In Red Ink With Date and Name of Person Making Change.

Do not extend notes this side of this line.

F.B. 1387 PG. 220

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 24/2 Division No.
No. Date Date Survey of
X-Sec. Notes Card Checked Survey by F.H. BLANCHARD & CO. Date 12-12-53
No. Date Date Map No. Indexed Johnson Date

F. B. 1507 Pg. 27

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE | 647+92 24 |
|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks SIGHT ON |
| | | 1 | B+W | 7:26 | 92°14'40" | 654+65-N |
| | | 2 | R | | 92°14'40" | |
| | | 3 | Y | | " " | |
| | | 4 | B+W | 7:33 | " " | |
| | | 5 | R | | " " | |
| | | 6 | Y | | " " | |
| | | 7 | B+W | 7:38 | " " | |
| | | 8 | R | | 92°32' | |
| | | 9 | Y | | 92°14'40" | |
| | | 10 | B+W | 7:42 | 92°14'40" | |
| | | 11 | R | | " " | |
| | | 12 | Y | | " " | |
| | | 13 | B+W | 7:45 | " " | |
| | | 14 | R | | " " | |
| | | 15 | Y | | " " | |
| | | 16 | B+W | 7:50 | " " | |
| | | 17 | R | | " " | |
| | | 18 | Y | | " " | |
| | | 19 | B+W | 7:54 | " " | |
| | | 20 | R | | 92°14'40" | |

647+92 24

OFF SET LINE

BASE LINE

RANGE 647+92

RANGE LINE 647+92

ANGLE 92°14'40"

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ X-Sec. No. ____

Plotted ____ Date ____ Checked ____ Date ____

Notes Red ____ Date ____ Notes Chkd. ____ Date ____

Division No. ____

Job No. 53112 Notes Robbins Date ____

Survey of Bridge, Equestrian Trail

Survey by C. Johnson

Indexed ____ Date ____

F.B. 1507 Pg. 224

| STATION | B. S. | H. I. | F. S. | ELEV. | | |
|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | | 21 | Y | | 2 40' | |
| N | | 22 | B&W | 7:59 | 90 | |
| 647+90 67 N | | | | | | |
| | 637+65 N | | | | | |

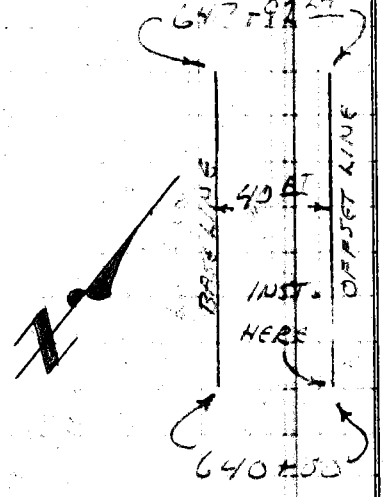
76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 647+92.24 N |
|---|---|---|---|---|---|
| Inst. At | Sight On | # Color | Time | Hor. Ang. | Remarks |
| | | 1 B&W | 7:25 | 70°07 | |
| | | 2 R | | 67°31 | |
| | | 3 Y | | 64°[illegible] | |
| | | 4 B&W | 7:33 | 61°52 | |
| | | 5 R | | 59°09 | |
| | | 6 Y | | [illegible] | |
| | | 7 B&W | 7:37 | 53°19 | |
| | * | 8 R | | 50°27 | |
| | | 9 Y | | 47°45 | |
| | | 10 B&W | 7:41 | 43°17 | |
| | | 11 R | | 42°32 | |
| | | 12 Y | | 40°57 | |
| | | 13 B&W | 7:44 | 39°21 | |
| | | 14 R | | 37°29 | |
| | | 15 Y | | 34°54 | |
| | | 16 B&W | 7:50 | 31°57 | |
| | | 17 R | | 29°44 | |
| | | 18 Y | | 26°45 | |
| | | 19 B&W | 7:54 | 23°30 | |
| | | 20 R | | 19°59 | |




Profile
No. X-Sec.
Notes Red. Plotted Job No. 2412 Division No.
Date Date Survey of
Notes Chkd. Checked Survey by
Date Date Map No.
Indexed
Date
F. B. 1507 Pg. 223

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

E.B. 1507 Pg. 224 Job No. 2412 Division No. Notes Rcd. Date Notes Chkd. Date Indexed Date Plotted Date Checked Date Profile No. X-Sec. No.

Survey of Beach Erosion Study
Survey by E. H. Blanchard Notes Osed

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN | 647+92.24 N |
|---|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks | |
| 640+00-N - 43 FT OFF | 21 | Y | | 16°35 | | |
| 647+92.24 N - 40 FT OFF | 22 | B&W | 7:54 | 15°18 | | |

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Boat — 647+92.24 W

| # | Color | Time | H. I. | Loss. Depth | F. S. | Bottom Side | ELEV. | Adj. Depth | | Remarks |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | BxW | 7:25 | 33.7 | | | | | | | |
| | | | 31.9 | | 32.5 | 6.1 | | 26.4 | 1932 | 1972 -40 |
| 2 | R | | 31.7 | | | | | | | |
| | | | 30.3 | | 30.8 | 6.0 | | 24.8 | 1680 | 1720 |
| 3 | Y | | 30.9 | | | | | | | |
| | | | 29.0 | | 29.6 | 6.0 | | 23.6 | 1481 | 1521 |
| 4 | BxW | 7:33 | 28.9 | | | | | | | |
| | | 7:37 | 27.9 | | 28.2 | 5.9 | | 22.3 | 1350 | 1390 |
| 5 | R | | 27.7 | | | | | 20.9 | | |
| | | | 26.4 | | 26.8 | 5.9 | | 21.1 | 1205 | 1245 |
| 6 | Y | | 26.3 | | | | | | | |
| | | | 25.9 | | 26.0 | 5.9 | | 20.1 | 1070 | 1110 |
| 7 | BxW | 7:37 | 25.5 | | | | | | | |
| | | 7:41 | 24.2 | | 24.6 | 5.9 | | 18.7 | 954 | 994 |
| 8 | R | | 23.6 | | | | | | | |
| | | | 22.9 | | 23.1 | 5.9 | | 17.2 | 881 | 921 |
| 9 | Y | | 22.7 | | | | | | | |
| | | | 22.9 | | 22.2 | 5.8 | | 16.4 | 796 | 836 |
| 10 | BxW | 7:44 | 21.3 | | | | | | 797 | |
| | | 7:46 | 20.7 | | 20.9 | 5.8 | | 15.1 | 757 | Rocky Bottom |
| 11 | R | | 19.3 | | | | | | | |
| | | | 18.4 | | 18.7 | 5.8 | | 12.9 | 676 | 716 |
| 12 | Y | | 18.5 | | | | | | | |
| | | | 17.9 | | 18.1 | 5.8 | | 12.3 | 630 | 670 |
| 13 | BxW | 7:44 | 16.7 | | | | | | | |
| | | 7:50 | 15.9 | | 16.2 | 5.7 | | 10.5 | 590 | 630 |
| 14 | R | | 15.9 | | | | | | | |
| | | | 14.3 | | 14.8 | 5.7 | | 9.1 | 550 | 590 |
| 15 | Y | | 16.2 | | | | | | | |
| | | | 15.0 | | 15.4 | 5.7 | | 9.7 | 498 | 538 |
| 16 | BxW | 7:50 | 14.2 | | | | | | | |
| | | 7:56 | 12.9 | | 13.3 | 5.6 | | 7.7 | 443 | 483 |
| 17 | R | | 14.9 | | | | | | | |
| | | | 13.4 | | 13.9 | 5.6 | | 8.3 | 403 | 443 |
| 18 | Y | | 12.7 | | | | | | | |
| | | | 13.3 | | 12.8 | 5.6 | | 7.2 | 352 | 392 |
| 19 | BxW | 7:56 | 13.3 | | | | | | | |
| | | 7:58 | 12.7 | | 12.9 | 5.5 | | 7.4 | 304 | 344 |
| 20 | R | | 11.2 | | | | | | | |
| | | | 10.4 | | 10.7 | 5.5 | | 5.2 | 245 | 285 |

Profile Notes Red. GEM Plotted Job No. 8W12 Elevation No.
No. Misc. Date 1/18/54 Date Survey of Date F. B. 507 Pg. 225
No. Misc. Notes Chkd. Date Survey of Date
No. Misc. Notes Chkd. Date Map No. Indexed Date

75L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

F. B. 7507 Pg. 226
Survey of Beach
Survey by H. BLANCHARD
Indexed C T
Profile Plotted Date
No. X-Sec.
Job No. 3411 Division No. Lagoon Studies
Notes Red CEM Date 1/18/54
Notes Check AT Date 1-22-54
Notes Date
No. Date

| STATION | B. B. | H. I. | F. S. | ELEV. | Boat | 64702.24N |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | Adj. Depth | Remarks |
| 21 Y | | 10.2<br>8.9<br>9.2 | 9.3 | 5.5 | 3.8 | 187 227 - 40 |
| 22 B&W | 7:59 | 7.9 | 8.0 | 5.4 | 2.6 | 180 220 |

76L298 307 10-51

PLEASE RETURN TO

**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile No.____ Notes Red____ Plotted____ Job No. 24112 Division No.____ F.B. 16507 Pg. 227
X-Sec. No.____ Date____ Date____ Survey of Parcel 1 Easement for Date 12-14-53
Notes Chkd____ Checked____ Surveyed by H. BLANCHARD Jr. & R. Johnson
Date____ Date____ Map No.____ Indexed Date____

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE 650+00 N | |
|---|---|---|---|---|---|---|
| INSTR AT / SIGHT AT | # | COLOR | TIME | ANGLE | REMARKS | |
| | 1. | B+W | 8:59 | 90°15' | | SIGHT ON |
| | 2 | R | | 90°00' | | 652+00 N |
| | 3. | Y | | 90°12' | | |
| | 4 | B+W | 9:03 | 90°00' | | |
| | 5 | R | | 90°00' | | |
| | 6 | Y | | 90°00' | | |
| 650+00 N | 7 | B+W | 9:06 | 90°00' | | |
| | 8 | R | | 90°00' | | 87°52 N |
| 652+00 N | 9 | Y | | 90°00' | | |
| | 10 | B+W | 9:08 | 90°00' | | |
| | 11 | R | | 89°45' | | |
| | 12 | Y | | 90°00' | | |
| | 13 | B+W | 9:11 | 90°00' | | |
| | 14 | R | | 90°00' | | |
| | 15 | Y | | 90°00' | | |
| | 16 | B+W | 9:14 | 90°00' | | |
| | 17 | R | | 90°00' | | |
| | 18 | Y | | 90°00' | | RANGE LINE |
| | 19 | B+W | 9:17 | 90°00' | | 650+00 N |
| | 20 | R | | 90°00' | | |

BASE LINE

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1527 PG. 28 Job No. 8422 Division No. 3643 Profile
Survey of Beach Erosion Notes Red. Plotted
Survey by F. H. Burnside Notes Date Date X-Sec.
Indexed E. C. Johnson Notes Chkd. Checked
Date Date Date

| STATION | B. S. | H. I. | F. S. | ELEV. | RANGE | 650+00 N |
|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | | 21 | Y | | 90°00 | |
| | | 22 | B&W | 9:20 | 90° | |
| | | 23 | R | | 90° | |
| | | 24 | Y | | 90° | |
| 650+00-N | | | | | | |
| 652+00-N | | | | | | |

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No. 8412 Division No.
No. Date Date Survey of BEECH EROSION STUDIES
K-Sec. Notes Chkd. Checked Survey by [illegible] NBO 0/26/64 Date 12-17-63
No. Date Date Map No. Checked by Johnson Date

F. B. 1501 Pg. 279

Inst. At: Sight On: 664+30 N 7°42' E 2.66 ft

| STATION | B. S. | # | H. I. | F. S. | ELEV. | CUT-IN 65-J*JJ-N | Remarks |
|---|---|---|---|---|---|---|---|
| | | | Color | Time | Hor. Ang. | | |
| | * | 1 | B&W | 7:58 | 57°29 | | |
| | | 2 | R | | 53°55 | | |
| | * | 3 | Y | | 54°20 | | |
| | | 4 | B&W | 9:03 | 53°10 | | |
| | | 5 | R | | 51°58 | | |
| | | 6 | Y | | 50°10 | | |
| | | 7 | B&W | 9:06 | 47°18 | | |
| | | 8 | R | | 46°04 | | |
| | | 9 | Y | | 44°02 | | |
| | | 10 | B&W | 9:07 | 41°52 | | |
| | * | 11 | R | | 38°54 | | |
| | | 12 | Y | | 36°55 | | |
| | | 13 | B&W | 9:11 | 34°36 | | |
| | | 14 | R | | 32°27 | | |
| | | 15 | Y | | 30°01 | | |
| | | 16 | B&W | 9:14 | 27°29 | | |
| | | 17 | R | | 25°18 | | |
| | | 18 | Y | | 23°02 | | |
| | | 19 | B&W | 9:17 | 20°55 | | |
| | | 20 | R | | 18°36 | | |

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1507 Pg. 23 & Job No. 842 Division No. Notes Red. Plotted No.
Survey of Beach Erosion Studies Date Date X-Sec.
Survey by H. H. Blanchard Notes 3 Feb Notes Chkd. Checked No.
Indexed R. A. Johnson Date Date Date

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-U | 6.5U + 3U-J |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | | | |
| | 22 | B&W | 920 | | | |
| | 23 | R | | | | |
| | 24 | Y | | | | |
| 6+50 +00-U to Z Offset | | | | | | |
| 6+00 +00-U to Z Offset | | | | | | |

761.298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | 650+00 N | BOAT |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom Tide | | Adj. Depth | Remarks |
| 1 BW | 8 59 | 31 29 3 | 30.4 | 4.0 | 26.4 | 1835 |
| 2 R | | 29 5 28 7 | 29.0 | 4.0 | 25.0 | 1722 |
| 3 Y | | 29 2 28 2 | 28.8 | 4.0 | 24.8 | 1634 |
| 4 BW | 903 | 29 2 27 0 | 27.7 | 4.0 | 23.7 | 1566 |
| 5 R | | 27 9 25 9 | 26.6 | 3.9 | 22.7 | 1496 |
| 6 Y | | 26 7 25 8 | 26.1 | 3.9 | 22.2 | 1402 |
| 7 BW | 906 | 26 2 24 0 | 24.7 | 3.9 | 20.8 | 1316 |
| 9 R | | 24 5 23 2 | 23.6 | 3.8 | 19.8 | 1216 |
| 9 Y | | 23 2 21 9 | 22.3 | 3.8 | 18.5 | 1131 |
| 10 BW | 909 | 22 4 20 9 | 21.4 | 3.8 | 17.6 | 1048 |
| 11 R | | 20 6 18 9 | 19.4 | 3.8 | 15.6 | 940 |
| 12 Y | | 18 5 17 0 | 17.5 | 3.8 | 13.7 | 877 |
| 13 BW | 911 | 17 1 15 8 | 16.2 | 3.8 | 12.4 | 804 |
| 14 R | | 14 7 13 7 | 14.1 | 3.7 | 10.4 | 738 |
| 15 Y | | 14 9 13 2 | 13.8 | 3.7 | 10.1 | 665 |
| 16 BW | 914 | 13 7 13 0 | 13.2 | 3.7 | 9.5 | 595 |
| 17 R | | 11 9 11 0 | 11.3 | 3.7 | 7.6 | 539 |
| 18 Y | | 11 7 10.5 | 10.9 | 3.6 | 7.3 | 478 |
| 19 BW | 917 | 10.7 9.1 | 9.6 | 3.6 | 6.0 | 423 |
| 20 R | | 9.3 | 8.7 | 3.6 | 5.1 | 369 |

Profile
No. ____ Notes Red. CEM Plotted ____ Job No. 8W12 Division No. ____
X-Sec. Date 1/19/54 Date ____ Survey of Bay Area
No. ____ Notes Chkd. EK Checked ____ Survey by H. DAVIDIAN
Date 2-22-54 Date ____ Map No. ____ Indexed J. Johnson Date ____
F. B. 1507 Pg. 230
Date 12-17-53

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F. B. 1507 Pg. 232 Job No. 8512 Division No. Profile
Survey of Marina Del Rey & Ballona Channel No. X-Sec.
Survey by F. H. BLANCHARD Notes Red. CEM Plotted
Indexed R. C. Tehaves Date Notes Chkd. Date 1/19/54 Checked
Date 1-22-54 Date No.

| STATION | B. S. | H. I. | F. S. | ELEV. | 650+08 N | BOAT |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Ht. Tide | Adj. Depth | Remarks |
| 21 Y | | 11 3 / 10 4 | 10.7 | 3.6 | 7.1 | 323 |
| 22 BW | 920 | 10 1 / 9 1 | 9.4 | 3.5 | 5.9 | 268 |
| 23 R | | 8 9 / 8 2 | 8.4 | 3.5 | 4.9 | 229 |
| 24 Y | | 8 3 / 7 2 | 7.6 | 3.5 | 4.1 | 182 |

76L298 307 10-51

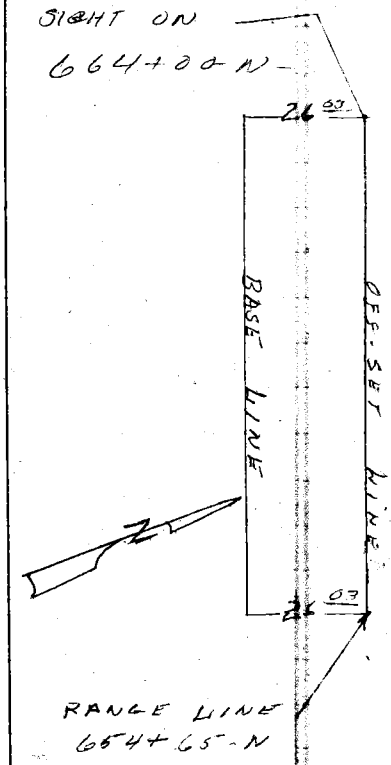
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red. Plotted Job No. 8447 Division No. F.B. 1502 Pg. 73
No. Date Survey of Bea
X-Sec. Notes Chkd. Checked Survey by F. H. BLANCHARD & Co. Date 12-[illegible]-63
No. Date Date Map No. Checked Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 654+65 N | |
|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | | 1 | B&W | 8:19 | 90°00' | |
| | | 2 | R | | 90°00' | |
| | | 3 | Y | | 90°00' | |
| | | 4 | B&W | 8.22 | 90°00' | |
| | | 5 | R | | 90° 00' | |
| | | 6 | Y | | 90° 00' | |
| | | 7 | B&W | 8.25 | 90° 00' | |
| | | 8 | R | | 90° 00' | |
| | | 9 | Y | | 90° 00' | |
| | | 10 | B&W | 8.28 | 90° 00' | |
| | | 11 | R | | 90° 00' | |
| | | 12 | Y | | 90° 00' | |
| | | 13 | B&W | 8.31 | 90°00' | |
| | | 14 | R | | 90°00' | |
| | | 15 | Y | | 90°00' | |
| | | 16 | B&W | 8.34 | 90°00' | |
| | | 17 | R | | 90° 00' | |
| | | 18 | Y | | 90° 00' | |
| | | 19 | B&W | 8.36 | 90°00' | |
| | | 20 | R | | 90°00' | |




654+65 N 26°03' off. S.
664+00 N 26°03' off. S.

F.B. 1507 Pg. 2311 Job No. 8412 Division No. Notes Red. Plotted Profile

Survey of Beach Erosion Study Date Date No.

Survey by E. H. BLANCHARD Notes J.C.G. Notes Chkd. Checked X-Sec.

Indexed C. A. BRASCH Date Date Date No.

76L298 307 10-51

PLEASE RETURN TO

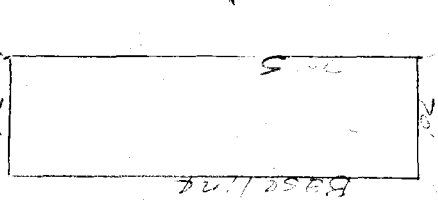
LOS ANGELES COUNTY SURVEYOR

726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B.S. | H.I. | F.S. | ELEV. | Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|
| 1st sight | # | Color | Time | | | |
| 660+00 N 70' off. S. | 1 | Brw | 10:06 | | | |
| 664+00 N 70' off. S. | 2 | R | | | | |
| | 3 | Y | | | | |
| | 4 | Brw | 10:[illegible] | | | |
| | 5 | R | | | | |
| | 6 | Y | | | | |
| | 7 | R&W | 10:[illegible] | | | |
| | 8 | R | | | | |
| | 9 | Y | | | | |
| | 10 | Brw | 10:19 | | | |
| | 11 | R | | | | |
| | 12 | Y | | | | |
| | 13 | Brw | 10:[illegible] | | | |
| | 14 | R | | | | |
| | 15 | Y | | | | |
| | 16 | Brw | 10:24 | | | |
| | 17 | R | | | | |
| | 18 | Y | | | | |
| | 19 | Brw | 10:33 | | | |
| | 20 | R | | | | |



76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

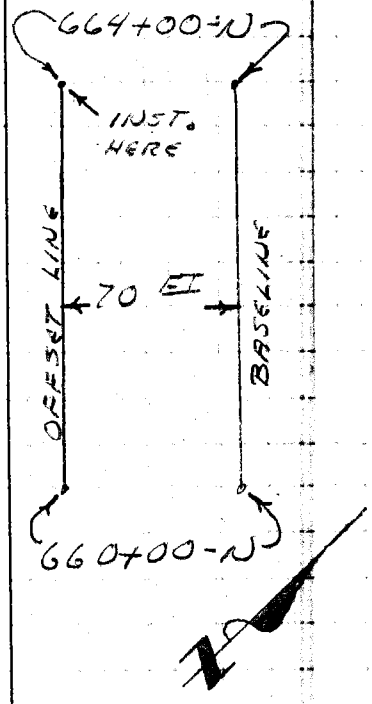
NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red. Plotted Job No 2412 Division No. F. B. 1507 Pg. 23
No. Date Date Survey of
X-Sec. Notes Chkd Checked Survey by E. H. BLANCHARD 0626 Date 12-12-52
No. Date Date Map No. Checked by Johnson Date

CUT-IN 65+65-N

| STATION | B. S. | H. I. | F. S. | ELEV. | Remarks |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | |
| 65+30 -N - 70 Ft Off | 1 | B & W | 7:18 | 64°31 | |
| | 2 | R | | 62°56 | |
| | 3 | Y | | 61°27 | |
| 66+00 -N - 70 Ft Off | 4 | B & W | 7:22 | 59°02 | |
| | 5 | R | | 56°56 | |
| | 6 | Y | | 53°54 | |
| | 7 | B & W | 7:25 | 51°22 | |
| | 8 | R | | 48°26 | |
| | 9 | Y | | 45°05 | |
| | 10 | B & W | 7:29 | 41°29 | |
| | 11 | R | | 37°30 | |
| | 12 | Y | | 33°12 | |
| | 13 | B & W | 7:31 | 30°33 | |
| | 14 | R | | 27°55 | |
| | 15 | Y | | 25°57 | |
| | 16 | B & W | 7:34 | 23°33 | |
| | 17 | R | | 21°25 | |
| | 18 | Y | | 19°19 | |
| | 19 | B & W | 7:36 | 16°15 | |
| | 20 | R | | 14°22 | |



76L298 307 8-53

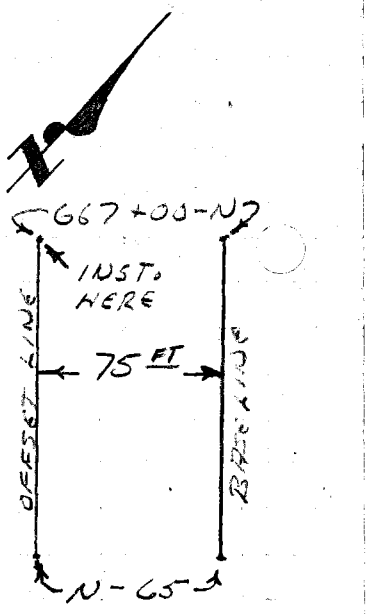
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1587 Pg. 296 Job No. 7412 Division No. Notes Red. Plotted
Survey of Block 2 Tract 25103 Study Date Date No.
Survey by H. BLANCHARD Notes 0&W Notes Chkd. Checked X-Sec.
Indexed [illegible] Date Date Date No.
Profile

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 660+00-N |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks |
| | 1 | R&W | 10:08 | 75°19 | |
| | 2 | R | | 73°53 | |
| | 3 | Y | | 72°29 | |
| | 4 | R&W | 10:10 | 70°[illegible] | |
| | 5 | R | | 68°50 | |
| | 6 | Y | | 66°[illegible] | |
| | 7 | R&W | 10:13 | 65°55 | |
| | 8 | R | | 64°[illegible] | |
| | 9 | Y | | 60°11 | |
| | 10 | R&W | 10:21 | 56°50 | |
| | 11 | R | | 55°31 | |
| | 12 | Y | | 52°[illegible] | |
| | 13 | R&W | 10:27 | 52°06 | |
| | 14 | R | | 49°31 | |
| | 15 | Y | | 48°06 | |
| | 16 | R&W | 10:32 | 46°01 | |
| | 17 | R | | 44°[illegible] | |
| | 18 | Y | | 42°[illegible] | |
| | 19 | R&W | 10:35 | 39°[illegible] | |
| | 20 | R | | 38°[illegible] | |



76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Boat — 6547+65 N

| STATION # | Color | B. S. Time | H. I. Depth | F. S. Bottom | ELEV. Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|
| 1 | B×W | 8:18 | 31.3 29.9 | 30.4 | 5.0 | 25.4 | 1730 |
| 2 | R | | 29.5 28.7 | 29.0 | 5.0 | 24.0 | 1623 |
| 3 | Y | | 29.9 28.2 | 28.8 | 5.0 | 23.8 | 1530 |
| 4 | B×W | 8:22 | 29.2 27.0 | 27.7 | 4.9 | 22.8 | 1395 |
| 5 | R | | 27.9 25.9 | 26.6 | 4.9 | 21.7 | 1288 |
| 6 | Y | | 26.7 25.8 | 26.1 | 4.9 | 21.2 | 1159 |
| 7 | B×W | 8:25 | 26.2 24.0 | 24.7 | 4.9 | 19.8 | 1059 |
| 8 | R | | 24.5 23.2 | 23.6 | 4.8 | 18.8 | 955 |
| 9 | Y | | 23.2 21.9 | 22.3 | 4.8 | 17.5 | 848 |
| 10 | B×W | 8:28 | 22.4 20.9 | 21.4 | 4.8 | 16.6 | 750 |
| 11 | R | | 20.4 18.9 | 19.4 | 4.7 | 14.7 | 647 |
| 12 | Y | | 18.5 17.0 | 17.5 | 4.7 | 12.8 | 549 |
| 13 | B×W | 8:31 | 17.1 15.8 | 16.2 | 4.7 | 11.5 | 492 |
| 14 | R | | 14.5 13.7 | 14.1 | 4.7 | 9.4 | 438 |
| 15 | Y | | 14.9 13.2 | 13.8 | 4.7 | 9.1 | 400 |
| 16 | B×W | 8:34 | 13.7 13.0 | 13.2 | 4.6 | 8.6 | 355 |
| 17 | R | | 11.9 11.0 | 11.3 | 4.6 | 6.7 | 320 |
| 18 | Y | | 11.7 10.5 | 10.9 | 4.6 | 6.3 | 279 |
| 19 | B×W | 8:36 | 10.7 9.1 | 9.6 | 4.6 | 5.0 | 223 |
| 20 | R | | 9.7 8.2 | 8.7 | 4.6 | 4.1 | 193 |

Profile Notes Red. CEM. Plotted Job No. 1K12 Division No.
No. Date 1/19/54 Date Survey of H. H. BLANCHARD
X-Sec. Notes Chkd. Checked Survey No. Indexed
No. Date 1-25-54 Date Map No. Date
F. B. 1506 Pg. 237

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

F. B. 1307 Pg. 238 | Profile | X-Sec.
Survey of Baker & Cove | Job No. 841 | Division No. Sounding | Notes Red. CEM | Plotted | No.
Survey by F. H. Hyland | Notes A.S. | Date 1/19/54 | Date | Notes Chkd. AK | Checked | No.
Indexed C. Stanley | Date | Date 1-25-54 | Date

BOAT — 660+00N

| STATION # | Color | B. S. Time | H. I. Depth | F. S. Bottom | ELEV. Tide | Adj. Depth | Remarks |
|---|---|---|---|---|---|---|---|
| | | | 28.3 | | | | |
| 1 | B x W | 10:08 | 27.9 | 28.0 | 2.4 | 25.6 | 1830 |
| 2 | R | | 27.4 | 27.0 | 2.4 | 24.6 | 1710 |
| 3 | Y | | 26.8 | 26.4 | 2.3 | 24.1 | 1610 |
| 4 | B x W | 10:10 | 25.7 | 25.2 | 2.3 | 22.9 | 1478 |
| 5 | R | | 24.9 | 24.7 | 2.3 | 22.4 | 1382 |
| 6 | Y | | 24.4 | 23.8 | 2.3 | 21.5 | 1283 |
| 7 | B x W | 10:13 | 24.3 | 22.8 | 2.3 | 20.5 | 1200 |
| 8 | R | | 23.5 | 22.5 | 2.2 | 20.3 | 1078 |
| 9 | Y | | 22.2 | 21.0 | 2.1 | 18.9 | 1020 Rocky Bott[illegible] |
| 10 | B x W | 10:21 | 21.3 | 19.7 | 2.0 | 17.7 | 910 |
| 11 | R | | 20.8 | 18.6 | 2.0 | 16.6 | 870 |
| 12 | Y | | 19.3 | 18.1 | 1.9 | 16.2 | 798 |
| 13 | B x W | 10:27 | 19.5 | 17.1 | 1.9 | 15.2 | 785 |
| 14 | R | | 18.1 | 15.2 | 1.8 | 13.4 | 721 |
| 15 | Y | | 18.6 | 13.9 | 1.8 | 12.1 | 690 |
| 16 | B x W | 10:32 | 17.9 | 12.6 | 1.7 | 10.9 | 650 |
| 17 | R | | 17.4 | 13.4 | 1.7 | 11.7 | 620 |
| 18 | Y | | 16.9 | 10.6 | 1.7 | 8.9 | 577 |
| 19 | B x W | 10:35 | 15.7 | 10.3 | 1.7 | 8.6 | 527 |
| 20 | R | | 14.9 | 9.7 | 1.7 | 8.0 | 487 |
| | | | 14.4 | | | | |
| | | | 13.6 | | | | |
| | | | 13.4 | | | | |
| | | | 12.2 | | | | |
| | | | 14.2 | | | | |
| | | | 13.0 | | | | |
| | | | 11.4 | | | | |
| | | | 10.2 | | | | |
| | | | 10.9 | | | | |
| | | | 10.0 | | | | |
| | | | 10.5 | | | | |
| | | | 9.3 | | | | |

76L298 307 10-51

PLEASE RETURN TO

**LOS ANGELES COUNTY SURVEYOR**
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

**NOTE:** ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red Plotted Job No. 3412 Drwn. No. F.B. 1507 Pg. 232
No. Date Date Survey of Parcel Map Checked By T.C.G. Date 12-14-52
X-Sec. Notes Chkd Checked Survey by H. BLANCHARD Traced Date
No. Date Date Map No. Indexed Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 660 ± OCN. |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks |
| | ~~21~~ | ~~Y~~ | | ~~90° 00~~ | VOID |
| | 22 | B & W | 10:35 | 90° 00 | |
| | 23 | R | | 90° 00 | |

N 00 ± 00 W 1179.79 ± OCN

76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

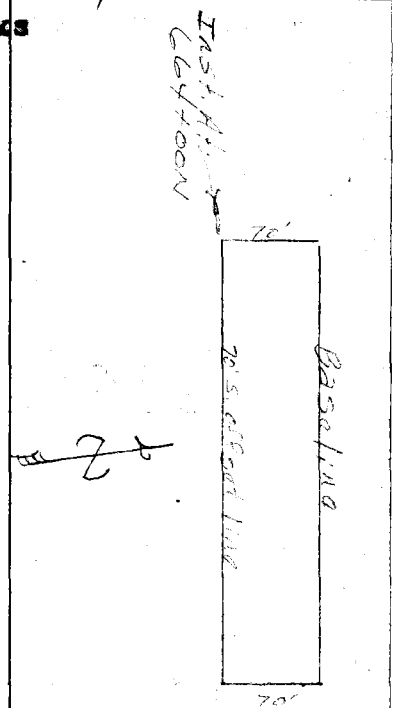
F.B. 1507 Pg. 140 | Job No. 2002 | Division No. | Profile | Notes Red. | Plotted | No. | X-Sec. | No.

Survey of Beach Erosion Study | Date | Date | Date

Survey by J.C.G. | Notes Chkd. | Checked

Indexed R. C. Johnson | Notes | Date | Date | Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 664+00 N |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | 1 | Btw | 11:00 | 90° 00' | |
| | 2 | R | | 90° 00' | |
| | 3 | Y | | 90° 00' | |
| 664+00 N 70' off S. | 4 | Btw | 11:03 | 90° 00' | |
| 660+00 N 70' off S. | 5 | R | | 90° 00' | |
| | 6 | Y | | 90° 00' | |
| | 7 | Btw | 11:07 | 90° 00' | |
| | 8 | R | | 90° 00' | |
| | 9 | Y | | 90° 00' | |
| | 10 | Btw | 11:09 | 90° 00' | |
| | 11 | R | | 90° 00' | |
| | 12 | Y | | 90° 00' | |
| | 13 | Btw | 11:12 | 90° 00' | |
| | 14 | R | | 90° 00' | |
| | 15 | Y | | 90° 00' | |
| | 16 | Btw | 11:14 | 90° 00' | |
| | 17 | R | | 90° 00' | |
| | 18 | Y | | 90° 00' | |
| | 19 | Btw | 11:16 | 90° 00' | |
| | 20 | R | | 90° 00' | |



76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN | 663+00-N |
|---|---|---|---|---|---|---|
| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
| | | 21 | Y | | | VOID |
| | | 22 | B/W | 1037 | 3 3/4" | |
| | | 23 | R | | 2 2/3 | |

66+00 N - 65' - 75-FT OFF

Profile Notes Red. Plotted Job No. 2412 Division No.
No. Date Date Survey of
X-Sec. Notes Chkd. Checked Survey by: H. BLANCHARD 3560 Date 12-17-53
No. Date Date Map No. Indexed Date

F. B. 1537 Pg. 24

76L298 307 8-53

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

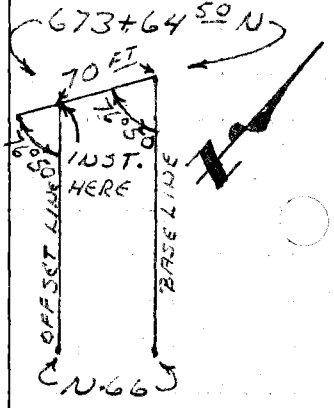
**Do not extend notes this side of this line.**

F. B. 1587 Pg. 242 Job No. 8412 Division No. Profile
Survey of 28254 SP 95102 Notes Red. Plotted No. X-Sec.
Survey by F. H. Notes 0389 Date Notes Chkd. Date Checked No.
Indexed C. Johnson Date Date Date

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 664+00-N | |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| | 1 | B+W | 11:02 | 81°13 | | |
| | 2 | R | | 79°56 | | |
| | 3 | Y | | 77°35 | | |
| | 4 | B+W | 11:05 | 75°27 | | |
| | 5 | R | | 73°12 | | |
| | 6 | Y | | 70°51 | | |
| | 7 | B+W | 11:07 | 67°39 | | |
| | 8 | R | | 64°18 | | |
| | 9 | Y | | 61°28 | | |
| | 10 | B+W | 11:10 | 58°[illegible] | | |
| | 11 | R | | 56°[illegible] | | |
| | 12 | Y | | 52°14 | | |
| | 13 | B+W | 11:13 | 49°[illegible] | | |
| | 14 | R | | 46°[illegible] | | |
| | 15 | Y | | 44°[illegible] | | |
| | 16 | B+W | 11:15 | 41°[illegible] | | |
| | 17 | R | | 38°[illegible] | | |
| | 18 | Y | | 36°[illegible] | | |
| | 19 | B+W | 11:18 | 33°[illegible] | | |
| | 20 | R | | 29°[illegible] | | |

673+64.50 N - 70 Ft Offset

N-66



764298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. ____ Notes Rod. CEM Plotted ____ Job No. ____
Date 11/9/54 Division No. ____
Notes Checked ____ Date ____ Surveyed ____
Date 11-25-54 Map No. ____ Indexed ____ Date ____

F.B. 1507 Pg. 43

| STATION | | S. S. | H. I. | F. S. | ELEV. | Boat | | 660+00 N |
|---|---|---|---|---|---|---|---|---|
| # | Color | Time | Depth | Bottom Side | Adj. Depth | | | Remarks |
| 21 | Y | | 8.8 | 9.2 | 1.7 | 7.5 | 436 | |
| 22 | B+W | 10 37 | 6.9 | 7.2 | 1.6 | 5.6 | 363 | |
| | | 11 14 | | | | | | |
| | | 11 16 | | | | | | |

76L298 307 4-56

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

F. B. 1807 Pg. 2/4 | Job No. 5112 Division No. | Notes Red CEM Plotted | Profile
Survey of Beach Erosion Studies | Date 1/19/54 Date | No. | X-Sec.
Survey by H. B. [illegible] Notes AS Checked AA
Indexed C. Tschudin Date | Notes Chkd AA Date 1-25-54 Date | No.

| STATION | | B. S. | H. I. | F. S. | ELEV. | BOAT | | 664+00N |
|---|---|---|---|---|---|---|---|---|
| # | Color | Time | Meas. Depth | Botton Tide | | Adj. Depth | | Remarks |
| 1 | Blk | 11:00 | 27.3<br>26.8 | 27.0 | 1.1 | 25.9 | 1540 | |
| 2 | R | | 25.9<br>25.2 | 25.4 | 1.1 | 24.3 | 1430 | |
| 3 | Y | | 25.9<br>24.8 | 25.2 | 1.1 | 24.1 | 1332 | |
| 4 | Blk | 11:02 | 25.1<br>24.3 | 24.6 | 1.1 | 23.5 | 1260 | |
| 5 | R | | 24.1<br>23.8 | 23.6 | 1.0 | 22.6 | 1185 | |
| 6 | Y | | 23.2<br>22.5 | 22.7 | 1.0 | 21.7 | 1092 | |
| 7 | Blk | 11:07 | 21.9<br>21.0 | 21.3 | 0.9 | 20.4 | 980 | |
| 8 | R | | 21.4<br>20.3 | 20.7 | 0.9 | 19.8 | 903 | |
| 9 | Y | | 19.5<br>18.9 | 19.1 | 0.9 | 18.2 | 833 | |
| 10 | Blk | 11:09 | 18.2<br>17.8 | 17.9 | 0.9 | 17.0 | 778 | |
| 11 | R | | 17.1<br>16.6 | 16.8 | 0.9 | 15.9 | 722 | |
| 12 | Y | | 16.4<br>15.7 | 15.9 | 0.9 | 15.0 | 650 | |
| 13 | Blk | 11:12 | 14.8<br>14.1 | 14.3 | 0.8 | 13.5 | 595 | |
| 14 | R | | 14.2<br>13.6 | 13.8 | 0.8 | 13.0 | 552 | |
| 15 | Y | | 12.3<br>11.8 | 12.0 | 0.8 | 11.2 | 514 | |
| 16 | Blk | 11:14 | 10.3<br>9.7 | 9.9 | 0.8 | 9.1 | 475 | |
| 17 | R | | 10.0<br>9.1 | 9.5 | 0.8 | 8.7 | 432 | |
| 18 | Y | | 9.2<br>9.0 | 9.2 | 0.8 | 8.4 | 400 | |
| 19 | Blk | 11:16 | 7.8<br>7.8 | 8.0 | 0.8 | 7.2 | 360 | |
| 20 | R | | 6.3<br>6.3 | 6.0 | 0.7 | 5.3 | 307 | |

76L298 307 10-51

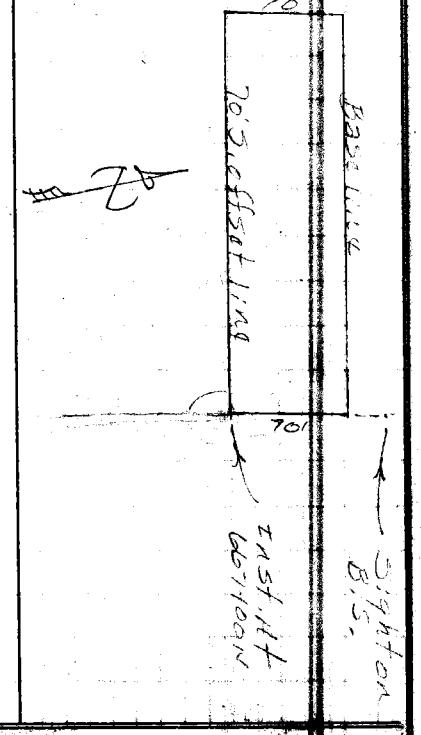
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No. 84-3 Division No.____ F.B. 1507 Pg. 4th
No.____ Date____ Date____ Survey of Reach 2 Rincon Extension
X-Sec. Notes Chkd____ Checked____ Survey: Fred H. Blanchard & T.C. Date 12-12-63
No.____ Date____ Date____ Map No.____ Indexed____ Date____

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 667+00N |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks |
| 667+00N 75'W. of ℄ | 1 | B&W | 11:31 | 90°00' | |
| | 2 | R | | 90°00' | |
| | 3 | Y | | 90°00' | |
| | 4 | B&W | 11:36 | 90°00' | |
| | 5 | R | | 90°00' | |
| | 6 | Y | | 90°00' | |
| | 7 | B&W | 11:39 | 90°18' | |
| | 8 | R | | 90°00' | |
| | 9 | Y | | 90°00' | |
| | 10 | B&W | 11:41 | 90°00' | |
| | 11 | R | | 90°00' | |
| | 12 | Y | | 90°00' | |
| B.S. 100' | 13 | B&W | 11:43 | 90°00' | |
| | 14 | R | | 91°00' | |
| | 15 | Y | | 90°00' | |
| | 16 | B&W | 11:45 | 90°00' | |
| | 17 | R | | 90°00' | |
| | 18 | Y | | 90°00' | |
| | 19 | B&W | 11:49 | 90°44' | |
| | 20 | R | | 90°00' | |



76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

F.B. 1507 Pg. 24 Job No. 2812 Division No. 35 Profile
Survey of Beach Erosion Study No. X-Sec.
Survey by L. C. Johnson Notes Red. Plotted
Indexed L. C. Johnson Date Notes Chkd Date Checked Date

| STATION | B. S. | H. I. | F. S. | ELEV. | Range 6674.00 N 75.00 W | |
|---|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks | |
| | 21 | Y | | 90° 00' | | |
| | 22 | B & W | 11:57 | 180° 00' | | |
| | 23 | R. | | 90° 30' | | |
| 6674.00 N 75.00 W. off. | | | | | | |
| B. S. 100' | | | | | | |

76L298 307 4-50

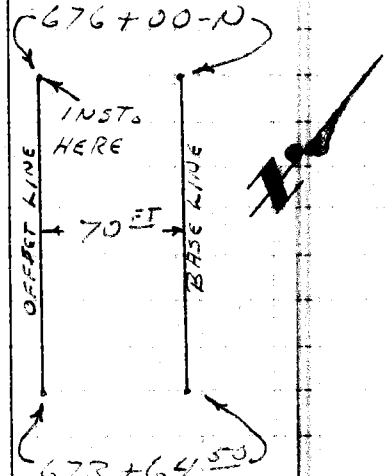
PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile Notes Red____ Plotted____ Job No. 8412 Division No.____ F. B. 1517 Pg. 242
No.____ Date____ Date____ Survey of BEACH EROSION STUDIES
X-Sec. Notes Chkd.____ Checked____ Survey by____ Map Drawn Date 12-17-52
No.____ Date____ Date____ Map No.____ Map Checked Date____

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 667+00-N | Remarks |
|---|---|---|---|---|---|---|
| Inst. Sight At On | | # Color | Time | Hor. Ang. | | |
| 676+00-N 70 ET OFFSET | 673+64.50-N - 70 ET OFFSET | 1 B&W | 11:32 | 96°22 | | |
| | | 2 R | | 91°04 | | |
| | | 3 Y | | 88°37 | | |
| | | 4 B&W | 11:37 | 87°17 | | |
| | | 5 R | | 85°01 | | |
| | | 6 Y | | 82°27 | | |
| | | 7 B&W | 11:40 | 80°25 * | | |
| | | 8 R | | 78°37 | | |
| | | 9 Y | | 76°30 | | |
| | | 10 B&W | 11:42 | 73°50 | | |
| | | 11 R | | 71°27 | | |
| | | 12 Y | | 68°52 | | |
| | | 13 B&W | 11:46 | 66°25 | | |
| | | 14 R | | 64°10 * | | |
| | | 15 Y | | 61°56 | | |
| | | 16 B&W | 11:47 | 58°04 | | |
| | | 17 R | | 56°42 | | |
| | | 18 Y | | 54°42 | | |
| | | 19 B&W | 11:51 | 52°15 * | | |
| | | 20 R | | 50°55 | | |



F.B. 1507 Pg. 248 | Job No. 8417 Division No. | Notes Red. | Plotted | Profile
Survey of BEACH EROSION STUDIES Date | No. | X-Sec.
Survey by F.H. [illegible] Notes 0856 | Notes Chkd. | Checked
Indexed [illegible] C. Tabares Date | Date | Date | No.

76L298 307 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 673+00 ℄ |
|---|---|---|---|---|---|
| Inst. At / Sight On | # | Color | Time | Hor. Ang. | Remarks |
| 676+00 ℄ 70' OFFSET / 673+64.52 70' OFFSET | 21 | Y | | + [illegible] | |
| | 22 | BSW | 11:57 | 31 52 | * |
| | 23 | R | | 31 49 | |

76L298 3077 4-50

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY ENGINEERING BLDG.

NOTE! ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

(9)

Profile Notes Rod CEM Plotted Job No. 54-2 Division No.
No. Date 1/13/54 Date Surveyed
No. Date 1-25-54 Checked Date
Map No. Checked Date

F.B. 1707 Pg. 2340

| STATION | B. S. | H. I. | F. S. | ELEV. | Road 667+00 N |
|---|---|---|---|---|---|

| # | Color | Time | Vane Depth | Bottom | Tide | Adj. Depth | | Remarks |
|---|---|---|---|---|---|---|---|---|
| | | | 295 | | | | | |
| 1 | BW | 1132 | 284 | 28.8 | 0.5 | 28.3 | 2687 | 2617 +70 |
| 2 | R | | 273 | 26.6 | 0.5 | 26.1 | 2095 | 2025 +70 |
| 3 | Y | | 262 | 25.5 | 0.4 | 25.1 | 1903 | 1833 |
| 4 | BW | 1137 | 253 | 24.9 | 0.4 | 24.5 | 1814 | 1744 |
| 5 | R | | 242 | 23.8 | 0.4 | 23.4 | 1674 | 1604 |
| 6 | Y | | 231 | 23.2 | 0.4 | 22.8 | 1554 | 1484 |
| 7 | BW | 1140 | 220 | 22.4 | 0.4 | 22.0 | 1430 | 1360 |
| 8 | R | | 212 | 21.9 | 0.3 | 21.6 | 1361 | 1291 |
| 9 | Y | | 203 | 20.7 | 0.3 | 20.4 | 1279 | 1209 |
| 10 | BW | 1142 | 198 | 20.1 | 0.3 | 19.8 | 1186 | 1116 |
| 11 | R | | 190 | 19.4 | 0.3 | 19.1 | 1110 | 1040 |
| 12 | Y | | 183 | 17.9 | 0.3 | 17.6 | 1036 | 966 |
| 13 | BW | 1145 | 172 | 16.7 | 0.3 | 16.4 | 969 | 899 |
| 14 | R | | 163 | 15.8 | 0.3 | 15.5 | 899 | 829 |
| 15 | Y | | 154 | 15.6 | 0.3 | 15.3 | 862 | 792 |
| 16 | BW | 1147 | 143 | 13.6 | 0.3 | 13.3 | 777 | 707 |
| 17 | R | | 134 | 13.6 | 0.2 | 13.4 | 747 | 677 |
| 18 | Y | | 123 | 11.7 | 0.2 | 11.5 | 711 | 641 |
| 19 | BW | 1151 | 112 | 10.2 | 0.2 | 10.0 | 660 | 590 |
| 20 | R | | 101 | 10.5 | 0.2 | 10.3 | 639 | 569 |

761.298 307 4-56

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 Los Angeles County Engineering Bldg.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

10

Profile No. X-Sec.
Plotted Date Checked Date
Notes Rcd. CEM Date 1/19/54 Notes Chkd. Date
Job No. 8412 Division No. BEACH EROSION STUDY
Survey of BEACH
Survey by E.H. BLANCHARD Notes
Indexed C. Johnson Date
P.B. 157 Pg. 28

| STATION | B. S. | H. I. | F. S. | ELEV. | 30+667+00 N | |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Tide | Adj. Depth | Remarks |
| 21 Y | | 92 | | | | |
| | | 89 | 8.7? | 0.2 | 8.5? | 531 461+70 |
| 22 BW | 11 57 | 94 | | | | |
| | | 70 | 7.8 | 0.1 | 7.7 | 424 354 |
| 23 R | | 63 | | | | |
| | | 48 | 5.3 | 0.1 | 5.2 | 387 317 |

FORM 307 2M 8-48

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. _____ Notes Red. CEM Plotted _____ Job No. _____
Date 1/19/54 Date _____ Survey of _____
X-Sec. No. _____ Notes Chkd. TTK Checked _____ Surveyed by H. BLANCHARD & Party
Date 1-25-54 Date _____ Map No. _____

| STATION | | B. S. | H. I. | F. S. | ELEV. | BORT | | 670+20-80M |
|---|---|---|---|---|---|---|---|---|
| # | Color | Time | Meas. Depth | Bottom | Ht. Tide | Adj. Depth | | Remarks |
| | | | 25.8 | | | | | |
| 1 | B×W | 12:22 | 25.2 | 25.4 | -0.2 | 25.6 | | 1888 |
| | | | 24.5 | | | | | |
| 2 | R | | 23.9 | 24.1 | -0.2 | 24.3 | | 1742 |
| | | | 24.5 | | | | | |
| 3 | Y | | 23.0 | 23.5 | -0.2 | 23.7 | | 1678 |
| | | | 24.2 | | | | | |
| 4 | B×W | 12:24 | 23.0 | 23.4 | -0.2 | 23.6 | | 1599 |
| | | | 23.0 | | | | | |
| 5 | R | | 22.2 | 22.5 | -0.2 | 22.7 | | 1510 |
| | | | 22.3 | | | | | |
| 6 | Y | | 21.4 | 21.7 | -0.2 | 21.9 | | 1426 |
| | | | 22.8 | | | | | |
| 7 | B×W | 12:26 | 21.0 | 21.6 | -0.2 | 21.8 | | 1400 |
| | | | 22.1 | | | | | |
| 8 | R | | 20.4 | 21.0 | -0.2 | 21.2 | | 1335 |
| | | | 20.8 | | | | | |
| 9 | Y | | 20.0 | 20.3 | -0.2 | 20.5 | | 1262 |
| | | | 20.0 | | | | | |
| 10 | B×W | 12:29 | 19.1 | 19.4 | -0.2 | 19.6 | | 1180 |
| | | | 18.5 | | | | | |
| 11 | R | | 18.2 | 18.6 | -0.2 | 18.8 | | 1107 |
| | | | 18.0 | | | | | |
| 12 | Y | | 17.5 | 17.7 | -0.2 | 17.9 | | 1043 |
| | | | 17.0 | | | | | |
| 13 | B×W | 12:31 | 16.0 | 16.3 | -0.2 | 16.5 | | 990 |
| | | | 17.0 | | | | | |
| 14 | R | | 15.5 | 16.2 | -0.2 | 16.4 | | 954 |
| | | | 15.0 | | | | | |
| 15 | Y | | 14.0 | 14.3 | -0.2 | 14.5 | | 863 |
| | | | 13.9 | | | | | |
| 16 | B×W | 12:33 | 12.2 | 12.8 | -0.3 | 13.1 | | 814 |
| | | | 12.1 | | | | | |
| 17 | R | | 11.0 | 11.4 | -0.3 | 11.7 | | 782 |
| | | | 12.6 | | | | | |
| 18 | Y | | 11.0 | 11.5 | -0.3 | 11.8 | | 742 |
| | | | 10.3 | | | | | |
| 19 | B×W | 12:36 | 10.3 | 10.3 | -0.3 | 10.6 | | 705 |
| | | | 10.7 | | | | | |
| 20 | R | | 10.2 | 10.2 | -0.3 | 10.5 | | 661 |

FORM 307 2M 8-45

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
700 HALL OF RECORDS

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

Do not extend notes this side of this line.

Profile No. X-Sec. No.

Plotted Date Checked Date

Notes Red. CEM Date 1/19/54 Notes Chkd. KK Date 1-22-54

Job No. [illegible] Division No. [illegible]

Survey of Beach Erosion Studies

Survey by F. H. BLANCHARD Notes # 85 Date

Indexed C. C. Johnson Date

| STATION | B.S. | H. I. | F. S. | ELEV. | BOAT | 670+20.80 |
|---|---|---|---|---|---|---|
| # Color | Time | Meas. Depth | Bottom | Ft. Tide | Adj. Depth | Remarks |
| 21 Y | | 8.8<br>7.5 | 7.9 | -0.3 | 8.2 | 613 |
| 22 Blk | 12:37 | 9.0<br>7.8 | Void | -0.3 | | |

76L298 307 10-51

PLEASE RETURN TO
LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

**Do not extend notes this side of this line.**

Profile Notes Red____ Plotted____ Job No. 8117 Division No.____ F.B. 1507 Pg. 25

No.____ Date____ Date____ Survey of BEACH EROSION STUDIES

X-Sec. Notes Chkd____ Checked____ Survey by J.H. BLANCHARD & REN. Date 12-17-53

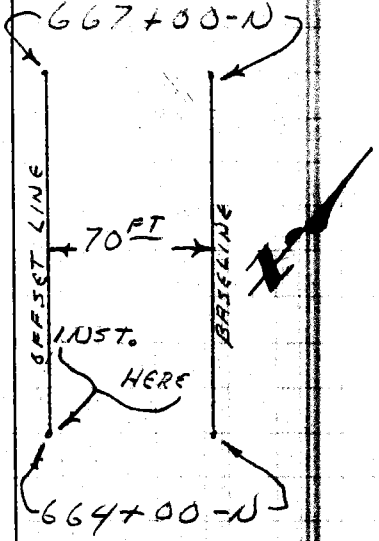
No.____ Date____ Date____ Map No.____ Inked C. Johansen Date____

CUT-IN 670+20.80 N

| STATION | B.S. | H.I. | F.S. | ELEV. |
|---|---|---|---|---|
| Inst. Sight At ON | # | Color | Time | Hor. Ang. |
| | 1 | B&W | 12:22 | 89°59 |
| | 2 | R | | 88°16 |
| | 3 | Y | | 87°25 |
| | 4 | B&W | 12:24 | 86°18 |
| | 5 | R | | 84°56 |
| | 6 | Y | | 83°29 |
| | 7 | B&W | 12:26 | 73°00 |
| * | 8 | R | | 81°37 |
| | 9 | Y | | 80°09 |
| * | 10 | B&W | 12:29 | 78°15 |
| | 11 | R | | 76°08 |
| | 12 | Y | | 74°07 |
| | 13 | B&W | 12:31 | 72°19 |
| | 14 | R | | 70°57 |
| | 15 | Y | | 67°22 |
| | 16 | B&W | 12:33 | 65°05 |
| * | 17 | R | | 63°16 |
| | 18 | Y | | 61°28 |
| | 19 | B&W | 12:36 | 59°23 |
| | 20 | R | | 56°50 |

664+00 ON 70' OFFSET

667+00 ON 70' OFFSET



76L298 307 10-51

PLEASE RETURN TO

LOS ANGELES COUNTY SURVEYOR
726 LOS ANGELES COUNTY
ENGINEERING BLDG.

NOTE: ANY ADDITIONS OR CHANGES ON THIS SHEET MUST BE MADE OR CIRCLED IN RED INK, WITH DATE AND NAME OF PERSON MAKING CHANGE.

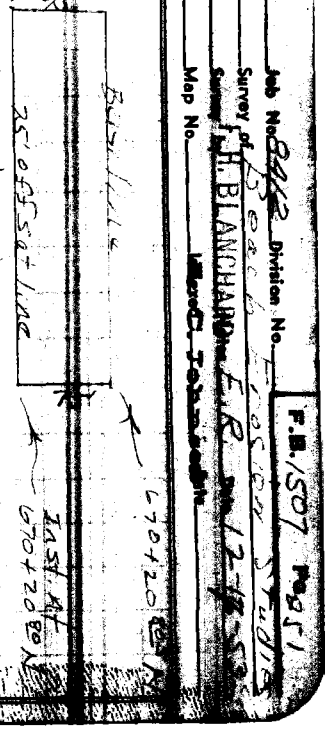
Do not extend notes this side of this line.

F.B. 507 Pg. 154 Job No. 8417 Division No. Notes Red. Plotted No.
Survey of BEACH EROSION STUDIES Date Date No. X-Sec.
Survey by Notes O BEW Notes Chkd. Checked
Indexed E. C. Thomson Date Date Date No.
Profile

| STATION | B. S. | H. I. | F. S. | ELEV. | CUT-IN 670+20 80 |
|---|---|---|---|---|---|
| Inst. Sight At On | # | Color | Time | Hor. Ang. | Remarks |
| | 21 | Y | | 53 4 | |
| | 22 | B&W | 12:37:45 PM | | |
| 667+00-N - 70 ET OFF | | | | | |
| 667+00-N - 20 ET OFF | | | | | |

STATION | B.S. | H.I. | F.S. | ELEV. | Range 670+20.80 N

| Inst. At | Sight On | # | Color | Time | Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|
| | | 1 | B&W | 12:22 | 90°00' | |
| | | 2 | R | | 90°00' | |
| | | 3 | Y | | 90°00' | |
| 673+54.50 N. 75° W. | 1 | 4 | B&W | 12:24 | 90°00' | |
| | | 5 | R | | 90°00' | |
| | | 6 | Y | | 90°00' | |
| | | 7 | B&W | 12:26 | 90°00' | |
| | | 8 | R | | 90°10' | |
| | | 9 | Y | | 90°00' | |
| 670+20.80 N. 75° W. | | 10 | B&W | 12:30 | 89°52' | |
| | | 11 | R | | 90°00' | |
| | | 12 | Y | | 90°00' | |
| | | 13 | B&W | 12:32 | 90°00' | |
| | | 14 | R | | 90°00' | |
| | | 15 | Y | | 90°00' | |
| | | 16 | B&W | 12:34 | 90°00' | |
| | | 17 | R | | 90°20' | |
| | | 18 | Y | | 90°00' | |
| | | 19 | B&W | 12:36 | 90°00' | |
| | | 20 | R | | 90°00' | |




Plotted ____ Job No. 8442 Division No. ____ F.B. 1507 Pg. 51
Red ____ Date ____ Survey of ____ Sta. ____ to Sta. ____
Chkd ____ Checked ____ Surveyed by H. BLANCHARD E.R. Date 12-15-53
Date ____ Map No. ____ Office Check ____

STATION

Range 670 20 W

| Inst. Sight At | OH | # | Color | Time | Hor. Ang. | Remarks |
|---|---|---|---|---|---|---|
| | | 21 | Y | 12:37 | 90°00' | |
| | | 22 | B+W | ~~A:35~~ | | |
| 670 | 20 W | | | | | |
| 673 | 54 50 N | | | | | |

Plotted ____ Date ____ Checked ____ Date ____

Red ____ Date ____ Notes Chkd ____ Date ____