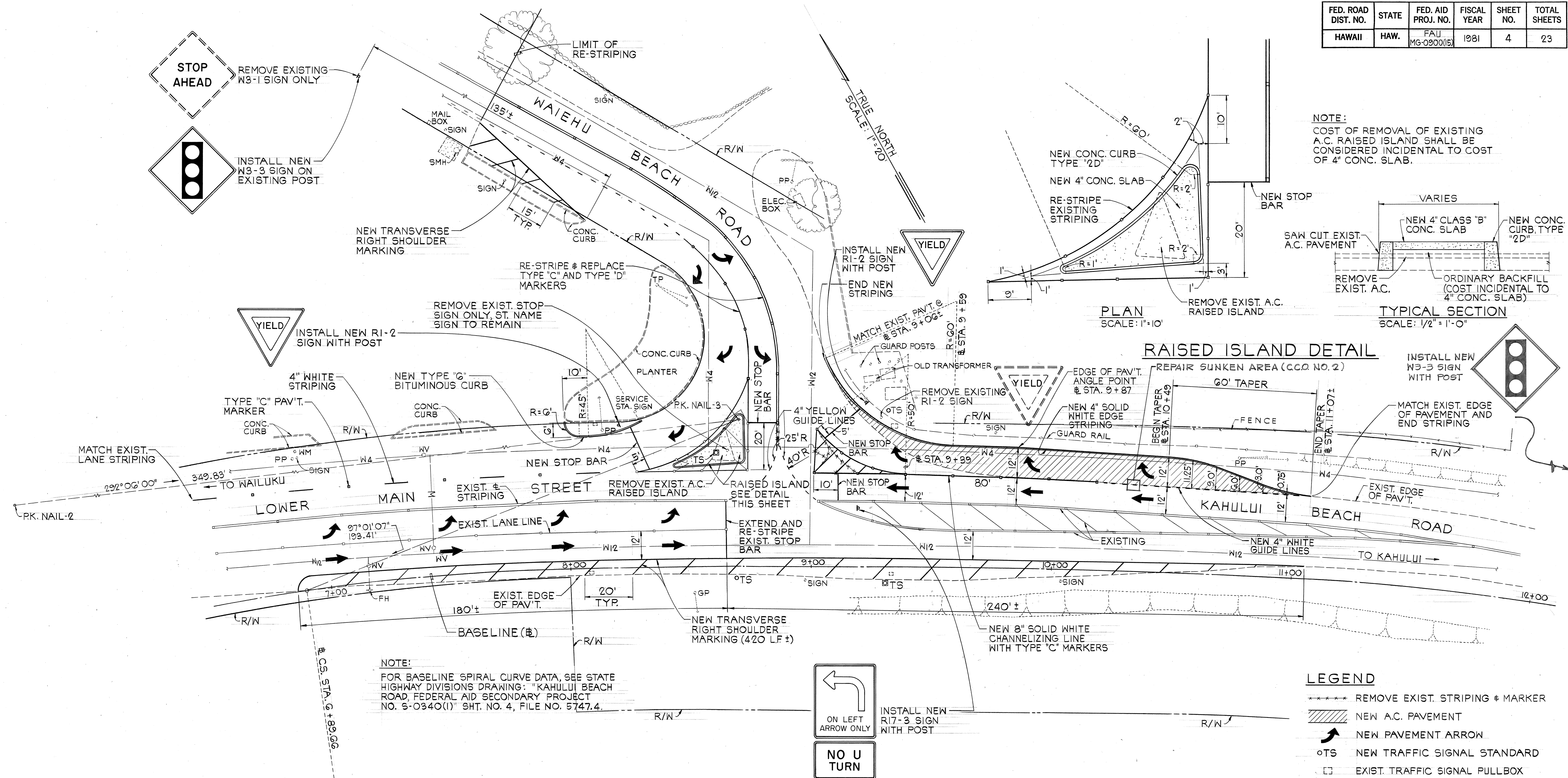


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | FAU MG-0900(15)    | 1981        | 4         | 23           |



SUMMARY OF ESTIMATED QUANTITIES

| ITEM NO. | QUANTITY      |
|----------|---------------|
| 203.0100 | 65 CU. YD.    |
| 304.1110 | 60 CU. YD.    |
| 401.0500 | 30 TON        |
| 608.0200 | 31 SQ. YD.    |
| 609.2020 | 175 LIN. FT.  |
| 609.6000 | 37 LIN. FT.   |
| 629.1010 | 1920 LIN. FT. |
| 629.1030 | 19 EACH       |
| 629.2030 | 30 EACH       |
| 629.2040 | 10 EACH       |
| 629.3021 | 50 LIN. FT.   |
| 629.3041 | 5 EACH        |



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*Theodore S. Kawahara*  
Signature

STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION

**GEOMETRICS & STRIPING PLAN**  
(KAHULUI BEACH RD./WAIIEHU BEACH RD.)

KAHULUI BEACH RD, TRAFFIC SIGNALS  
AT WAIIEHU BEACH ROAD AND  
HANA HIGHWAY, TRAFFIC SIGNALS  
AT DAIRY ROAD  
FAU PROJECT NO. MG-0900(15)

SCALE: AS SHOWN DATE: MAY 20, 1981

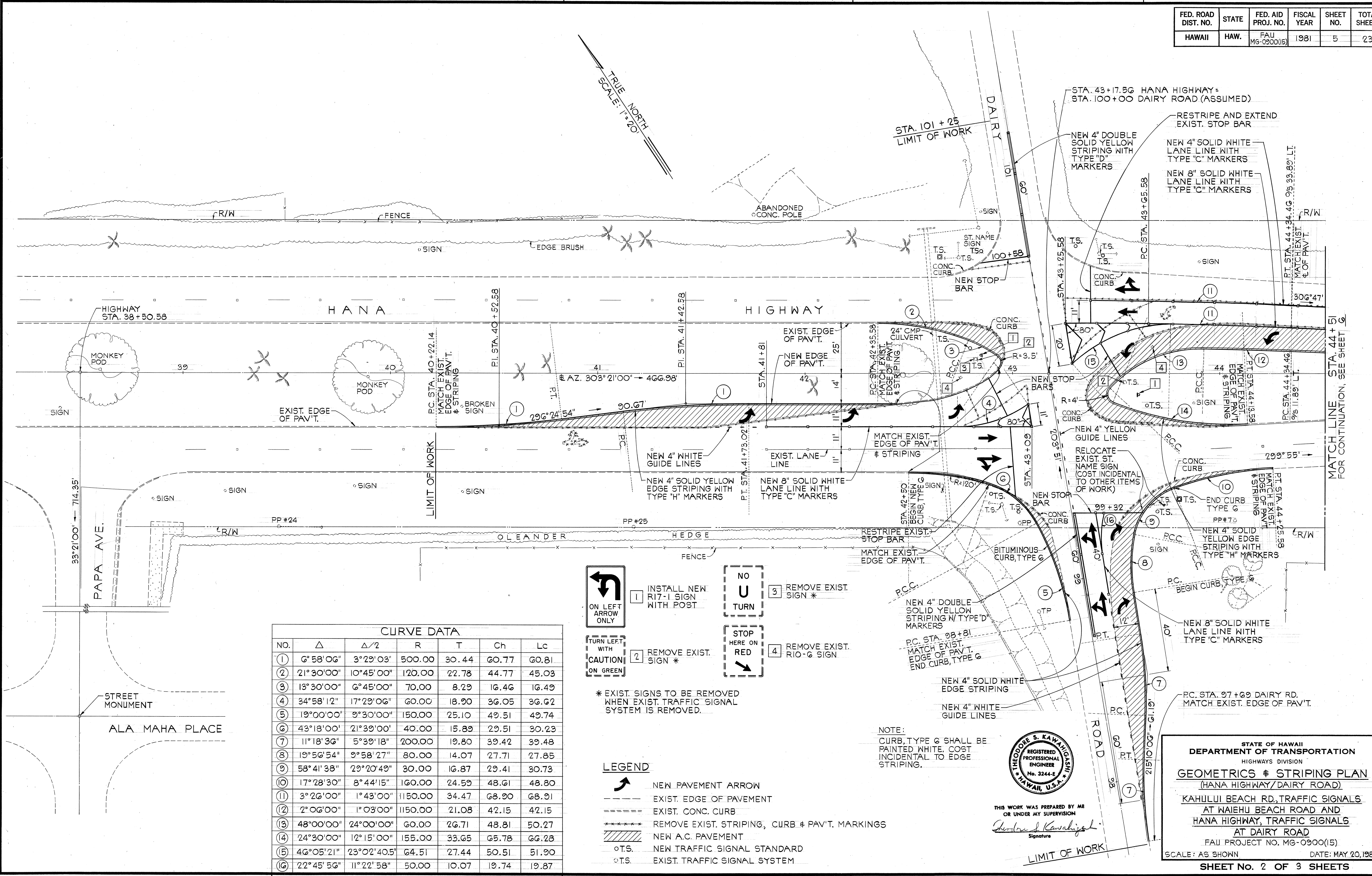
**SHEET NO. 1 OF 3 SHEETS**

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     | No.  |
| NOTE BOOK         | No.  |

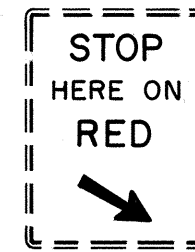
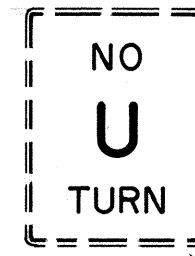
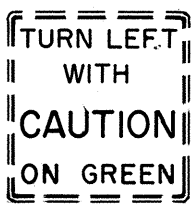
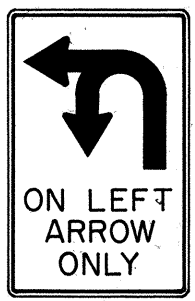


| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | FAU MG-0900(15)    | 1981        | 5         | 23           |

TRUE NORTH  
SCALE: 1"=20'



| CURVE DATA |           |             |         |       |       |       |
|------------|-----------|-------------|---------|-------|-------|-------|
| NO.        | Δ         | Δ/2         | R       | T     | Ch    | Lc    |
| 1          | 6°58'06"  | 3°29'03"    | 500.00  | 30.44 | 60.77 | 60.81 |
| 2          | 21°30'00" | 10°45'00"   | 120.00  | 22.78 | 44.77 | 45.03 |
| 3          | 13°30'00" | 6°45'00"    | 70.00   | 8.29  | 16.46 | 16.49 |
| 4          | 34°58'12" | 17°29'06"   | 60.00   | 18.90 | 36.05 | 36.62 |
| 5          | 19°00'00" | 9°30'00"    | 150.00  | 25.10 | 49.51 | 49.74 |
| 6          | 43°18'00" | 21°39'00"   | 40.00   | 15.89 | 29.51 | 30.23 |
| 7          | 11°18'36" | 5°39'18"    | 200.00  | 19.80 | 39.42 | 39.48 |
| 8          | 19°56'54" | 9°58'27"    | 80.00   | 14.07 | 27.71 | 27.85 |
| 9          | 58°41'38" | 29°20'49"   | 30.00   | 16.87 | 29.41 | 30.73 |
| 10         | 17°28'30" | 8°44'15"    | 160.00  | 24.59 | 48.61 | 48.80 |
| 11         | 3°26'00"  | 1°43'00"    | 1150.00 | 34.47 | 68.90 | 68.91 |
| 12         | 2°06'00"  | 1°03'00"    | 1150.00 | 21.08 | 42.15 | 42.15 |
| 13         | 48°00'00" | 24°00'00"   | 60.00   | 26.71 | 48.81 | 50.27 |
| 14         | 24°30'00" | 12°15'00"   | 155.00  | 33.65 | 65.78 | 66.28 |
| 15         | 46°05'21" | 23°02'40.5" | 64.51   | 27.44 | 50.51 | 51.90 |
| 16         | 22°45'56" | 11°22'58"   | 50.00   | 19.74 | 19.74 | 19.87 |



\* EXIST. SIGNS TO BE REMOVED WHEN EXIST. TRAFFIC SIGNAL SYSTEM IS REMOVED.

LEGEND

- NEW PAVEMENT ARROW
- EXIST. EDGE OF PAVEMENT
- EXIST. CONC. CURB
- REMOVE EXIST. STRIPING, CURB & PAV'T. MARKINGS
- NEW A.C. PAVEMENT
- NEW TRAFFIC SIGNAL STANDARD
- EXIST. TRAFFIC SIGNAL SYSTEM

NOTE:  
CURB, TYPE G SHALL BE PAINTED WHITE, COST INCIDENTAL TO EDGE STRIPING.

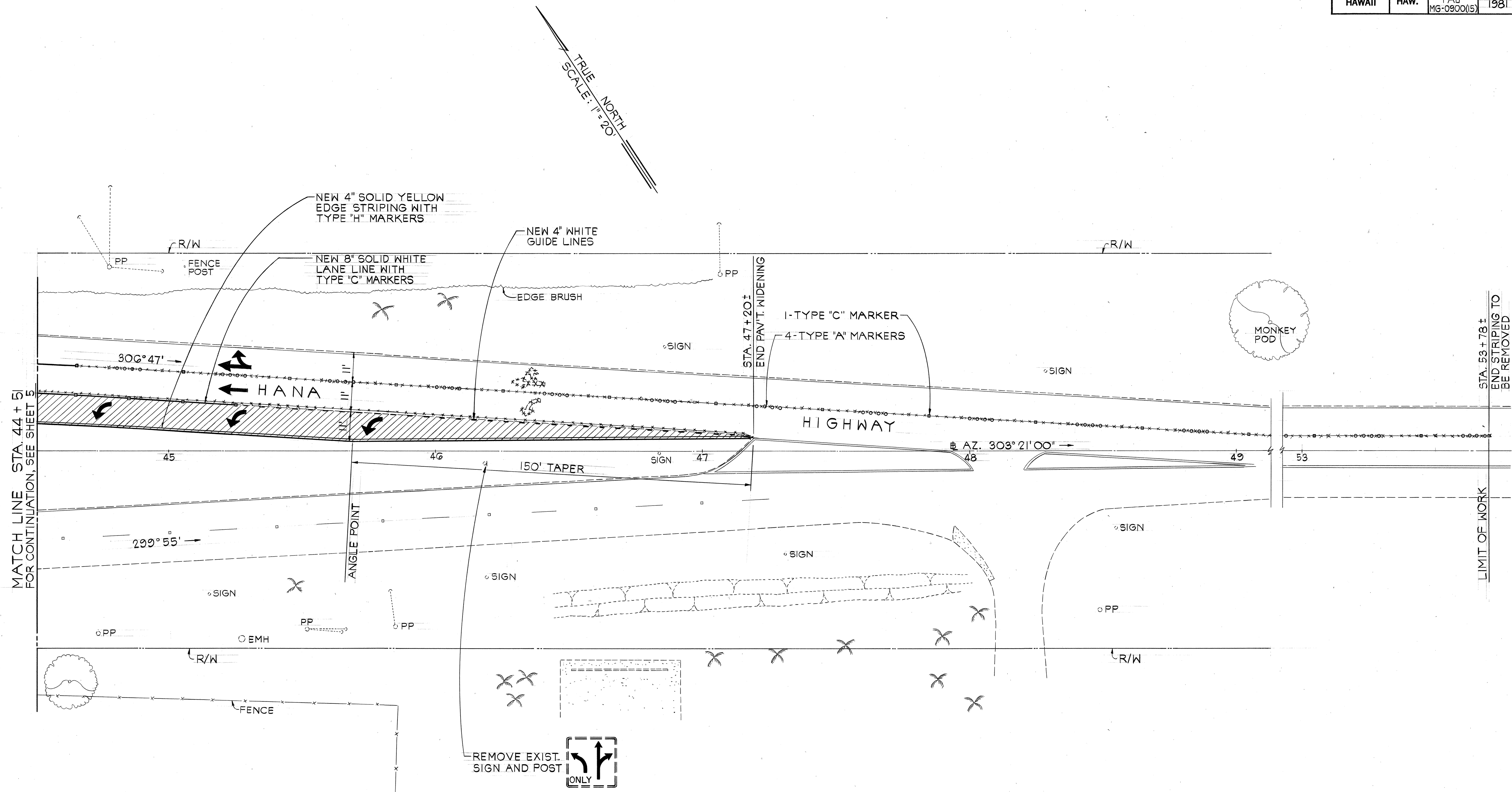


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STATE OF HAWAII  
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**GEOMETRICS & STRIPING PLAN**  
(HANA HIGHWAY/DAIRY ROAD)  
KAHULUI BEACH RD, TRAFFIC SIGNALS  
AT NAIHEU BEACH ROAD AND  
HANA HIGHWAY, TRAFFIC SIGNALS  
AT DAIRY ROAD  
FAU PROJECT NO. MG-0900(15)  
SCALE: AS SHOWN DATE: MAY 20, 1981  
**SHEET NO. 2 OF 3 SHEETS**



| FED. ROAD DIST. NO. | STATE | FED. AID PROJ. NO. | FISCAL YEAR | SHEET NO. | TOTAL SHEETS |
|---------------------|-------|--------------------|-------------|-----------|--------------|
| HAWAII              | HAW.  | FAU MG-0900(15)    | 1981        | 6         | 23           |



# SUMMARY OF ESTIMATED QUANTITIES

| ITEM NO. | QUANTITY      |
|----------|---------------|
| 203.0100 | 310 CU. YD.   |
| 304.1110 | 230 CU. YD.   |
| 401.0500 | 120 TON       |
| 609.6000 | 178 LIN. FT.  |
| 629.1010 | 2630 LIN. FT. |
| 629.1030 | 18 EACH       |
| 629.2010 | 95 EACH       |
| 629.2030 | 65 EACH       |
| 629.2040 | 10 EACH       |
| 629.2070 | 25 EACH       |
| 629.3021 | 2030 EACH     |
| 629.3031 | 4 EACH        |
| 629.3041 | 55 EACH       |



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**GEOMETRICS & STRIPING PLAN**  
(HANA HIGHWAY/DAIRY ROAD)  
KAHULUI BEACH RD, TRAFFIC SIGNALS  
AT WAIIEHU BEACH ROAD AND  
HANA HIGHWAY, TRAFFIC SIGNALS  
AT DAIRY ROAD  
FAU PROJECT NO. MG-0900(15)  
SCALE: AS SHOWN

DATE: MAY 20, 1981  
SHEET No. 3 OF 3 SHEETS

|                   |      |
|-------------------|------|
| SURVEY PLOTTED BY | DATE |
| DRAWN BY          |      |
| DESIGNED BY       |      |
| QUANTITIES BY     |      |
| CHECKED BY        |      |
| ORIGINAL PLAN     | No.  |
| NOTE BOOK         |      |