

DATE: \* \* \* \* \*  
SURVEY PLANNED BY: \_\_\_\_\_  
DRAWN BY: \_\_\_\_\_  
DESIGNED BY: \_\_\_\_\_  
CHECKED BY: \_\_\_\_\_  
ORIGINAL PLAN: \_\_\_\_\_  
NOTE BOOK: \_\_\_\_\_  
No. \_\_\_\_\_

| LOCATION        |                  |                | TYPE - 3<br>SINGLE | RECONST.<br>TYPE - 3<br>SINGLE | TYPE - 3<br>SINGLE<br>W/RUB RAIL | TYPE - 3<br>DOUBLE | TYPE - 3<br>DOUBLE<br>W/RUB RAIL | TYPE 4C | TYPE 4A<br>MODIFIED |
|-----------------|------------------|----------------|--------------------|--------------------------------|----------------------------------|--------------------|----------------------------------|---------|---------------------|
|                 | BEGIN<br>STATION | END<br>STATION |                    |                                |                                  |                    |                                  |         |                     |
| Road A Rt.      | 1+40             | 3+40           |                    | 200                            |                                  |                    |                                  |         |                     |
| " " Rt.         | 5+65             | 8+33           |                    | 275                            |                                  |                    |                                  |         |                     |
| " " Lt.         | 7+00             | 8+40           |                    | 137.5                          |                                  |                    |                                  |         |                     |
| " " Rt.         | 10+40            | Rd. B 4+50 Rt. |                    | 775                            |                                  |                    |                                  |         |                     |
| " " Lt.         | 10+54            | Ramp C 2+48    |                    | 487.5                          |                                  |                    |                                  |         |                     |
| " " Lt.         | 15+25            | 18+37          |                    | 315                            |                                  |                    |                                  |         |                     |
| Road B Lt.      | 2+00             | 4+25           |                    | 225                            |                                  |                    |                                  |         |                     |
| Ramp A Lt.      | 1+65             | 2+40           |                    |                                |                                  | 75                 |                                  |         |                     |
| " " Lt.         | 2+40             | 3+40           |                    | 100                            |                                  |                    |                                  |         |                     |
| Ramp B Lt.      | 9+00             | 9+65           |                    | 62.5                           |                                  |                    |                                  |         |                     |
| " " Rt.         | 9+20             | Rd. A 5+00 Lt. |                    | 212.5                          |                                  |                    |                                  |         |                     |
| Ramp C Rt.      | 3+30             | 6+50           |                    | 412.5                          |                                  |                    |                                  |         |                     |
| " " Lt.         | 13+75            | 14+75          | 100                |                                |                                  |                    |                                  |         |                     |
| " " Lt.         | 10+64            | 11+89          | 125                |                                |                                  |                    |                                  |         |                     |
| Median Lt.      | 41+00            | 61+00          |                    |                                |                                  |                    |                                  | 2000    |                     |
| " " Rt.         | 41+00            | 45+00          |                    |                                | 400                              |                    |                                  |         | 57                  |
| Median Rt.      | 41+00            | 45+00          |                    | 400                            |                                  |                    |                                  |         |                     |
| Ramp C Lt.      | 10+30            | 11+05          | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Lt.      | 55+50            | 67+00          | 1150               |                                |                                  |                    |                                  |         |                     |
| Median Lt.      | 66+00            | 66+57          |                    |                                |                                  |                    |                                  |         |                     |
| Median Rt.      | 63+50            | 68+00          | 450                |                                |                                  |                    |                                  |         |                     |
| Ramp E Lt.      | 4+50             | 7+12.5         | 262.5              |                                |                                  |                    |                                  |         |                     |
| Road B Lt.      | 17+25            | 22+50          |                    | 455                            |                                  |                    |                                  |         |                     |
| " " Rt.         | 19+45            | 21+25          |                    | 250                            |                                  |                    |                                  |         |                     |
| " " Lt.         | 20+75            | 32+00          |                    | 525                            |                                  |                    |                                  |         |                     |
| " " Rt.         | 25+20            | 31+15          |                    | 525                            |                                  |                    |                                  |         |                     |
| Median Rt.      | 83+75            | 84+50          | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Lt.      | 85+50            | 86+00          | 50                 |                                |                                  |                    |                                  |         |                     |
| " " Lt.         | 88+00            | 88+75          | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Rt.      | 91+00            | 91+50          | 50                 |                                |                                  |                    |                                  |         | 30                  |
| Median Lt.      | 92+25            | 94+50          |                    | 225                            |                                  |                    |                                  |         |                     |
| " " Lt.         | 95+50            | 96+25          | 75                 |                                |                                  |                    |                                  |         |                     |
| Median          | 99+90            | 100+20         |                    |                                |                                  |                    |                                  |         |                     |
| Median Rt.      | 96+00            | 97+75          | 175                |                                |                                  |                    |                                  |         |                     |
| Median Lt.      | 99+50            | 102+00         |                    | 250                            |                                  |                    |                                  |         |                     |
| Makakilo Dr Rt. | 7+05             | 8+05           |                    | 100                            |                                  |                    |                                  |         |                     |
| " " Lt.         | 10+78            | 12+53          |                    | 175                            |                                  |                    |                                  |         |                     |
| Ramp MA Lt.     | 4+30             | 5+05           | 75                 |                                |                                  |                    |                                  |         |                     |
| " " Rt.         | 5+10             | 5+85           | 75                 |                                |                                  |                    |                                  |         |                     |
| Ramp MB Lt.     | 1+25             | 2+00           |                    | 75                             |                                  |                    |                                  |         |                     |
| " " Lt.         | 6+40             | 6+65           | 25                 |                                |                                  |                    |                                  |         |                     |
| " " Lt.         | 10+30            | 10+80          | 100                |                                |                                  |                    |                                  |         |                     |
| " " Lt.         | 10+80            | 11+30          |                    |                                |                                  | 50                 |                                  |         |                     |
| Ramp MC Lt.     | 7+50             | 8+25           |                    | 75                             |                                  |                    |                                  |         |                     |
| Median Rt.      | 112+85           | 113+35         | 50                 |                                |                                  |                    |                                  |         |                     |
| Median Lt.      | 115+69           | 116+44         | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Rt.      | 124+75           | 125+50         | 75                 |                                |                                  |                    |                                  |         |                     |

| LOCATION      |                  |                | TYPE - 3<br>SINGLE | RECONST.<br>TYPE - 3<br>SINGLE | TYPE - 3<br>SINGLE<br>W/RUB RAIL | TYPE - 3<br>DOUBLE | TYPE - 3<br>DOUBLE<br>W/RUB RAIL | TYPE 4C | TYPE 4A<br>MODIFIED |
|---------------|------------------|----------------|--------------------|--------------------------------|----------------------------------|--------------------|----------------------------------|---------|---------------------|
|               | BEGIN<br>STATION | END<br>STATION |                    |                                |                                  |                    |                                  |         |                     |
| Median Lt.    | 127+25           | 127+75         | 50                 |                                |                                  |                    |                                  |         |                     |
| Median Rt.    | 134+75           | 135+25         | 50                 |                                |                                  |                    |                                  |         |                     |
| Median Lt.    | 134+75           | 135+50         | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Rt.    | 137+00           | 137+75         | 75                 |                                |                                  |                    |                                  |         |                     |
| " " Rt.       | 138+50           | 139+00         | 50                 |                                |                                  |                    |                                  |         |                     |
| Median Lt.    | 137+40           | 138+20         | 150                |                                |                                  |                    |                                  |         |                     |
| " " Lt.       | 143+25           | 143+75         | 50                 |                                |                                  |                    |                                  |         |                     |
| Median Rt.    | 143+50           | 144+25         | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Lt.    | 152+75           | 153+50         | 75                 |                                |                                  |                    |                                  |         |                     |
| " " Lt.       | 159+25           | 159+75         | 50                 |                                |                                  |                    |                                  |         |                     |
| Median Rt.    | 162+25           | 163+50         | 125                |                                |                                  |                    |                                  |         |                     |
| Median Lt.    | 162+75           | 163+50         | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Rt.    | 165+75           | 166+50         | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Lt.    | 167+75           | 168+25         | 50                 |                                |                                  |                    |                                  |         |                     |
| " " Lt.       | 169+25           | 170+00         | 75                 |                                |                                  |                    |                                  |         | 171                 |
| Median Rt.    | 169+25           | 170+26         |                    |                                |                                  |                    |                                  |         |                     |
| Median Lt.    | 171+75           | 172+25         | 50                 |                                |                                  |                    |                                  |         |                     |
| " " Lt.       | 174+25           | 175+00         | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Rt.    | 174+75           | 176+00         |                    | 125                            |                                  |                    |                                  |         |                     |
| " " Rt.       | 182+25           | 183+00         | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Lt.    | 190+50           | 191+00         | 50                 |                                |                                  |                    |                                  |         |                     |
| " " Lt.       | 192+75           | 193+50         | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Rt.    | 192+50           | 193+00         | 50                 |                                |                                  |                    |                                  |         |                     |
| Median Lt.    | 196+50           | 198+00         | 150                |                                |                                  |                    |                                  |         |                     |
| Median Rt.    | 197+50           | 199+00         | 150                |                                |                                  |                    |                                  |         |                     |
| Median Lt.    | 202+40           | 207+30         |                    |                                | 287.5                            | 200                |                                  |         |                     |
| " " Lt.       | 207+70           | 212+60         |                    |                                | 287.5                            | 200                |                                  |         |                     |
| Median Lt.    | 211+50           | 214+00         | 250                |                                |                                  |                    |                                  |         |                     |
| Median Rt.    | 213+00           | 214+50         | 150                |                                |                                  |                    |                                  |         |                     |
| " " Rt.       | 220+55           | 222+55         |                    | 200                            |                                  |                    |                                  |         |                     |
| Median Lt.    | 221+70           | 222+70         |                    | 100                            |                                  |                    |                                  |         |                     |
| Median Rt.    | 222+80           | 223+80         |                    | 100                            |                                  |                    |                                  |         |                     |
| Median Lt.    | 222+25           | 224+70         |                    | 175                            |                                  |                    |                                  |         |                     |
| Median Rt.    | 274+10           | 278+25         |                    |                                | 287.5                            | 200                |                                  |         |                     |
| Median Rt.    | 277+20           | 278+25         |                    | 175                            |                                  |                    |                                  |         |                     |
| " " Rt.       | 280+30           | 281+30         |                    | 100                            |                                  |                    |                                  |         |                     |
| Median Lt.    | 280+10           | 282+35         |                    | 225                            |                                  |                    |                                  |         |                     |
| Ramp KA Rt.   | 1+35             | Ramp KA 2+10   |                    | 75                             |                                  |                    |                                  |         |                     |
| Median Lt.    | 310+00           | 310+75         | 75                 |                                |                                  |                    |                                  |         |                     |
| Ramp KC Lt.   | 9+00             | 11+50          | 250                |                                |                                  |                    |                                  |         |                     |
| Median Rt.    | 316+43           | 317+18         | 75                 |                                |                                  |                    |                                  |         |                     |
| Median Rt.    | 321+10           | 324+10         |                    |                                | 300                              |                    |                                  |         |                     |
| Ramp KB Rt.   | 3+00             | 3+75           | 150                |                                |                                  |                    |                                  |         | 75                  |
| Kunia Rd. Rt. | 97+65            | 98+40          |                    |                                |                                  |                    |                                  |         |                     |
| " " Rt.       | 98+85            | 99+60          |                    |                                |                                  |                    |                                  |         |                     |
| Kunia Rd. Lt. | 97+65            | 98+40          |                    |                                |                                  |                    |                                  |         |                     |
| " " Lt.       | 98+85            | 103+35         |                    | 450                            |                                  |                    |                                  |         |                     |
| " " Lt.       | 103+70           | 104+25         |                    | 125                            |                                  |                    |                                  |         |                     |

NOTE: Above stationing are approximate only.

|                        |       |                       |                |              |                 |
|------------------------|-------|-----------------------|----------------|--------------|-----------------|
| FED. ROAD<br>DIST. NO. | STATE | FED. AID<br>PROJ. NO. | FISCAL<br>YEAR | SHEET<br>NO. | TOTAL<br>SHEETS |
| HAWAII                 | HAW.  | I-HI-1(108)           | 1975           | 16           | 100             |

| LOCATION   |                  |                | TYPE - 3<br>DOUBLE<br>W/RUB RAIL | TYPE 4A | TYPE 4B |
|------------|------------------|----------------|----------------------------------|---------|---------|
|            | BEGIN<br>STATION | END<br>STATION |                                  |         |         |
| Median Lt. | 61+00            | 62+00          |                                  |         | 100     |
| Median Lt. | 62+00            | 64+00          |                                  | 200     |         |
| Median Lt. | 64+00            | 66+00          | 200                              |         |         |
|            |                  |                |                                  |         |         |
|            |                  |                |                                  |         |         |
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
HIGHWAYS DIVISION  
  
GUARD RAIL SUMMARY  
SAFETY IMPROVEMENTS  
PALAILAI TO KUNIA  
F.A.I. PROJECT NO. I-HI-1(108)  
  
SHEET No. 1 OF 1 SHEETS