# STATE ROUTE SYSTEM

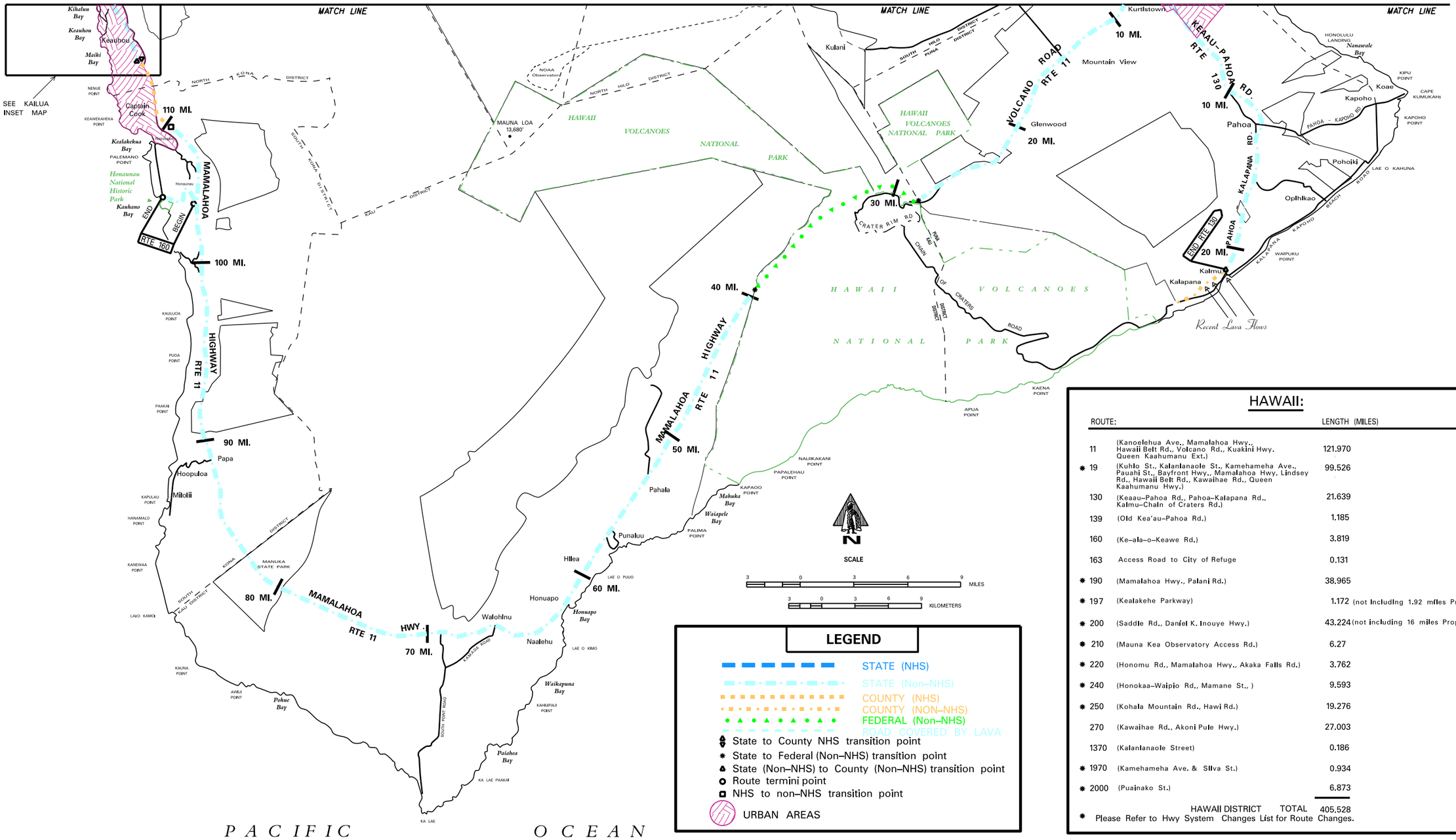
## COUNTY OF HAWAII

### ISLAND OF HAWAII

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION

PREPARED BY THE HIGHWAYS DIVISION, PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

DECEMBER 2018




## HAWAII:

| | ROUTE: | | LENGTH (MILES) |
|---|---|---|---|
| | 11 | (Kanoelehua Ave., Mamalahoa Hwy., Hawaii Belt Rd., Volcano Rd., Kuakini Hwy. Queen Kaahumanu Ext.) | 121.970 |
| * | 19 | (Kuhio St., Kalanianaole St., Kamehameha Ave., Pauahi St., Bayfront Hwy., Mamalahoa Hwy. Lindsey Rd., Hawaii Belt Rd., Kawaihae Rd., Queen Kaahumanu Hwy.) | 99.526 |
| | 130 | (Keaau–Pahoa Rd., Pahoa–Kalapana Rd., Kalmu–Chain of Craters Rd.) | 21.639 |
| | 139 | (Old Kea'au–Pahoa Rd.) | 1.185 |
| | 160 | (Ke–ala–o–Keawe Rd.) | 3.819 |
| | 163 | Access Road to City of Refuge | 0.131 |
| * | 190 | (Mamalahoa Hwy., Palani Rd.) | 38.965 |
| * | 197 | (Kealakehe Parkway) | 1.172 (not including 1.92 miles Proposed) |
| * | 200 | (Saddle Rd., Daniel K. Inouye Hwy.) | 43.224 (not including 16 miles Proposed) |
| * | 210 | (Mauna Kea Observatory Access Rd.) | 6.27 |
| * | 220 | (Honomu Rd., Mamalahoa Hwy., Akaka Falls Rd.) | 3.762 |
| * | 240 | (Honokaa–Waipio Rd., Mamane St., ) | 9.593 |
| * | 250 | (Kohala Mountain Rd., Hawi Rd.) | 19.276 |
| | 270 | (Kawaihae Rd., Akoni Pule Hwy.) | 27.003 |
| | 1370 | (Kalanianaole Street) | 0.186 |
| * | 1970 | (Kamehameha Ave. & Silva St.) | 0.934 |
| * | 2000 | (Puainako St.) | 6.873 |
| | | HAWAII DISTRICT TOTAL | 405.528 |

* Please Refer to Hwy System Changes List for Route Changes.

| Date Released | |
|---|---|
| Dec 2002 | JK |
| **Revised** | |
| Feb 03 | DB |
| May 04 | DB |
| Jan. 07 | DB |
| Feb 08 | DB |
| April 09 | DB |
| Feb 11 | DB |
| Feb 12 | DB |
| Feb 13 | EPJ |
| Dec. 13 | EPJ |
| Dec. 14 | EPJ |
| Jan. 16 | EPJ |
| Jan. 17 | EPJ |
| Feb 18 | DB |
| Nov. 18 | DB |

# STATE ROUTE SYSTEM

## COUNTY OF HAWAII

### ISLAND OF HAWAII

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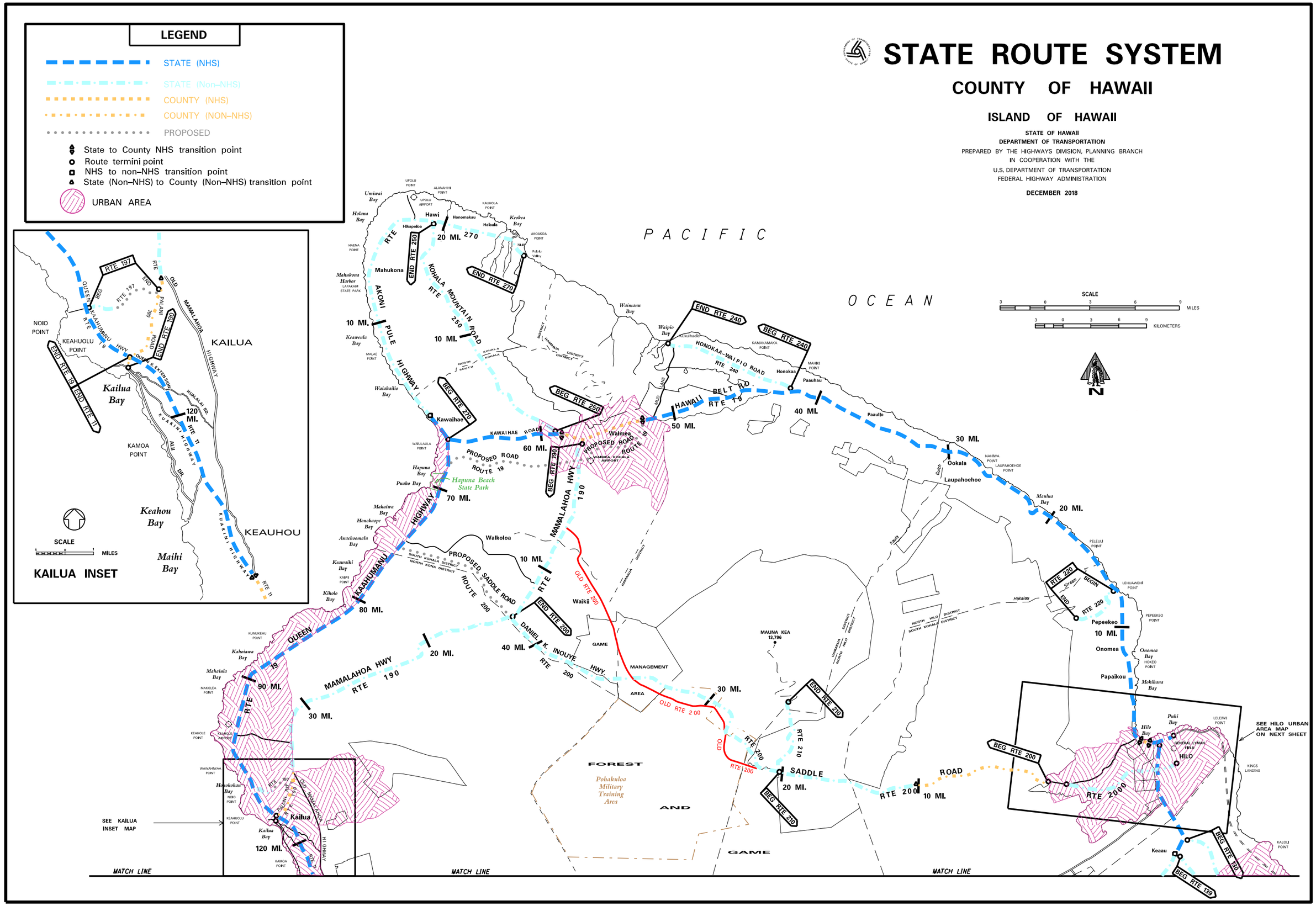
DECEMBER 2018




| Date Released | |
|---|---|
| Dec. 2002 | JK |
| Revised | |
| Feb. 03 | DB |
| May 04 | DB |
| Mar. 08 | DB |
| Feb. 09 | DB |
| Jan., 10 | DB |
| Feb. 11 | DB |
| Feb. 12 | DB |
| Dec. 13 | EPJ |
| Feb. 16 | DB |
| Feb. 17 | DB |
| Feb. 18 | DB |
| Mar. 18 | DB |
| | |
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| | |


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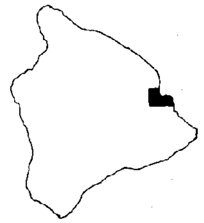

# STATE ROUTE SYSTEM

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
PREPARED BY THE HIGHWAYS DIVISION, PLANNING BRANCH
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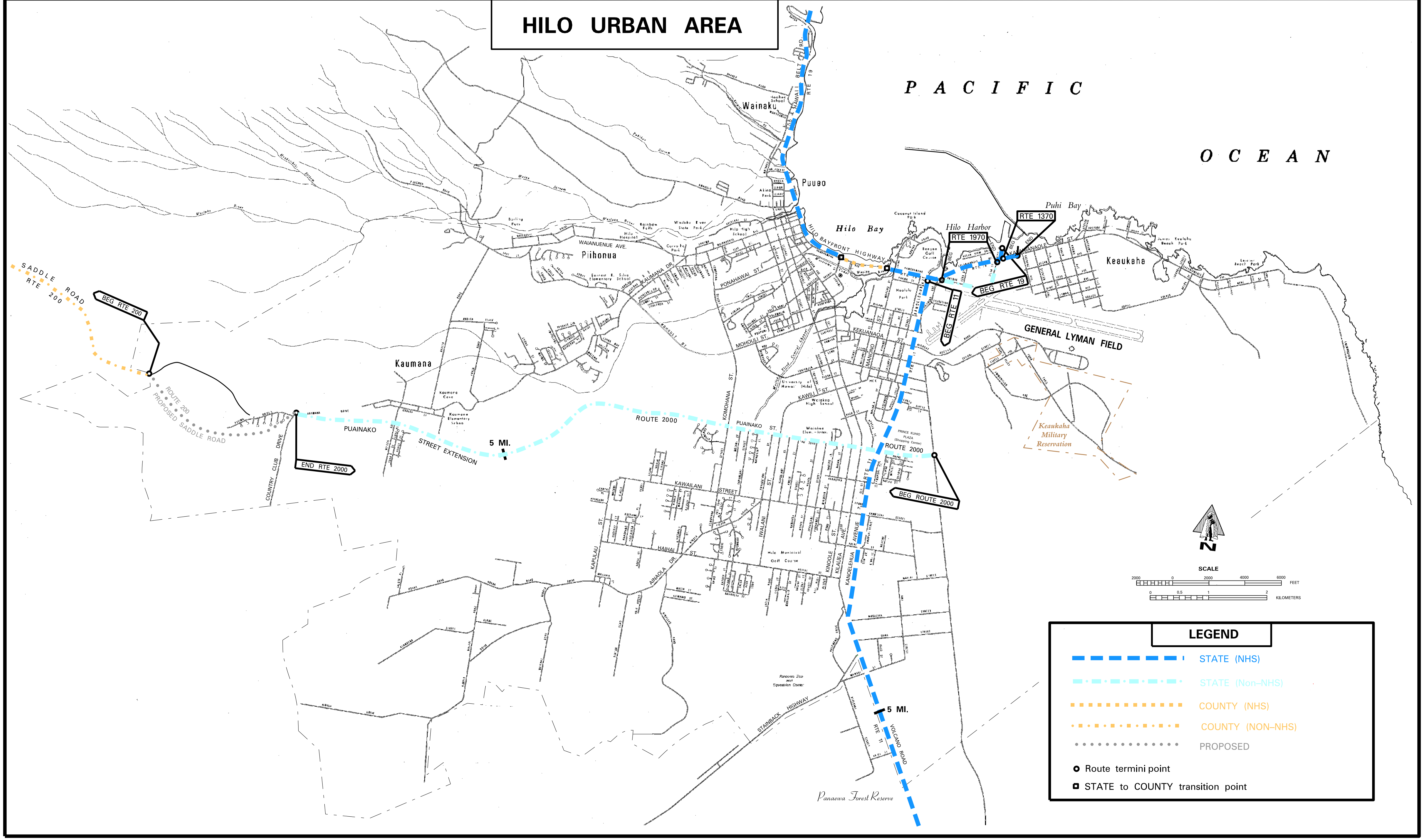
DECEMBER 2018

## HILO URBAN AREA



### LEGEND

| | |
|---|---|
| ▬ ▬ ▬ | STATE (NHS) |
| ▬ · ▬ · ▬ | STATE (Non–NHS) |
| ■ ■ ■ ■ | COUNTY (NHS) |
| ■ · ■ · ■ | COUNTY (NON–NHS) |
| • • • • • | PROPOSED |
| ○ | Route termini point |
| ◘ | STATE to COUNTY transition point |

| Date Released | |
|---|---|
| Dec 2002, JK | |
| Revised | |
| Feb 03 | D.B. |
| May 04 | D.B. |
| Feb 08 | D.B. |
| Feb 11 | D.B. |
| Feb 12 | D.B. |
| Dec. 13 | E.P.J. |
| Dec. 14 | E.P.J. |
| Jan. 16 | E.P.J. |
| Jan. 17 | E.P.J. |
| Feb 18 | D.B. |
| Nov. 18 | D.B. |
| | |
| | |
| | |
| | |

# ROAD INVENTORY

# HAWAII RTE. 11
# VOLCANO ROAD – KANOELEHUA AVE.

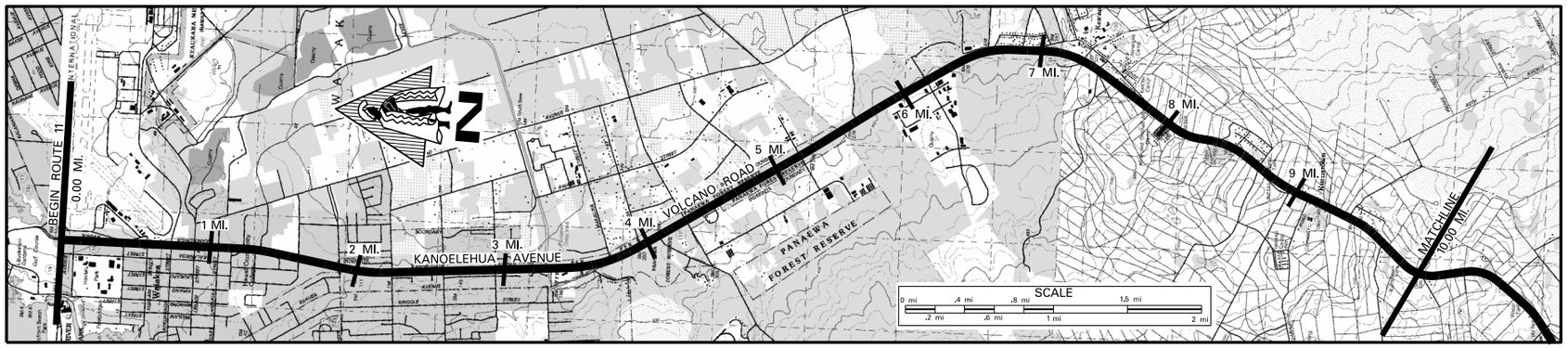
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Total Designated Route Length: 121.970 MILES (a + b)
a. Existing Length: 121.970 MILES
b. Proposed Length: 0.00 MILES
Total Travel Way Length: 121.970 MILES (a + b, less c)
a. Existing Length: 121.970 MILES
b. Temporary Length: 0.00 MILES
c. Length used as T.W. for another Route: NONE MILES (–)

NEEDS STUDY ROUTE NO. _____ FUNCTIONAL CLASSIFICATION _____



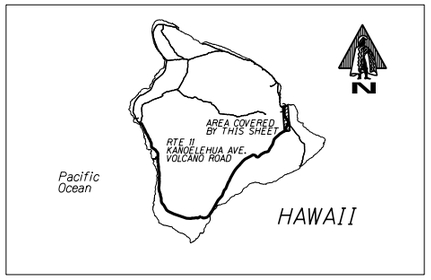

SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description
11P (1.08 MI) | END 11N – BEGIN 11P ON KANOELEHUA AVENUE 100' SOUTH OF CENTERLINE WITH LANIKAULA STREET (1.08) | 11N (6.24 MI) | END 11M – BEGIN 11N ON MAMALAHOA HWY, 100' SOUTH OF CENTERLINE WITH KEAU–PAHOA ROAD. (7.32) | 11M (9.12 MI.)

Structure Carrying Road
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: TEE BEAM 1950 HS–20 108'; CONCRETE FRAME 1966 HS–20–44 18'
- Vertical Clearance
- Horizontal Clearance: 28'; 92'

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: 125'; 125' – 150' (1.41); 125' (2.51); 125' – 185' (3.24); 80' (7.46)
Available Right of Way Width (Needs Study): (6' CHAINLINK 15'–25' FROM PAV'T) COMMERCIAL (0.41); RESIDENTIAL AREA (1.89); TREES, BRUSH (3.28); RESIDENTIAL AREA, TREES (6.66); CHAINLINK 8' FROM PAV'T (7.31)
Right of Way Fence: Type – Right and Left: (0.54) (7.52)
Control of Access: 1–None, 2–Partial, 3–Full: PARTIAL (0.48); NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): C to S Phase I (0.58); STATE
Project No., Type of Construction, and Year Constructed: (HES–STP–011–2(20) 1999 IMPROVEMENTS); (2000E–01–00, IMPRV., 2004) (0.70); (0.74); (1299 + 00); STP–011–2(39), PAVEMENT PREVENTIVE MAINTENANCE, 2013 (3.30); (6.46); (999 + 24); STP–011–2(041), PREVENTIVE MAINTENANCE, 2014 (8.58)
Project No., Type of Construction, and Year Constructed: NH–011–2(24) 1999 WIDENING (1.77); NH–011–2(33) 1999 RESURFACE (2.05); HWY–H–02–15M, 2017; (6.41); F–011–2(17) WIDENING 1987 (8.30); (8.59); HWY–H–02–15M, 2017




**Road Diagram**

Indicates Grass & / or Physical Barrier on Median.

BEGIN ROUTE 11 ON KANOELEHUA AVENUE AT THE SOUTH EDGE OF PAVEMENT WITH KAMEHAMEHA AVENUE (ROUTE 19) 0.00 MI.

KUAWA ST. 0.010 MI. | PILANI ST. 0.087 MI. | HULALANI ST. 0.420 MI. | AIRPORT RD. 0.577 MI. | LELANI ST. 0.737 MI. | KEKUANAOA ST. 0.897 MI. | KAWILI ST. 1.056 MI. | E. LANIKAULA ST. 1.145 MI. | POHAKU ST. 1.227 MI. | HALEKAULA ST. 1.338 MI. | MAKAALA ST. 1.600 MI. | PUAANAKO ST. (RTE 2000) 1.891 MI. | DRIVEWAY 2.046 MI. | E. KAHAOPEA RD. 2.245 MI. | AHONA PL. 2.522 MI. | KAWAILANI ST. 2.584 MI. | E. PALANI ST. 2.943 MI. | PANAEWA BR. WALANUHEA PL. 3.201 MI. | KLAUEA AVE. (ACCESS) 3.523 MI. | KILAUEA AVE. MAKALIKA ST. 3.728 MI. | LAMA ST. 3.949 MI. | BEGIN MEASURED STANBACK HWY. 4.092 MI. | MAMAKI ST. 4.298 MI. | HAWAII COMM. CENTER 4.509 MI. | IKAIKA ST. MEASURED MILE 4.968 MI. | TELEM. STA. 011052 5.184 MI. | PUNAI(R) DIST. BDRY. SIGN 5.290 MI. | MACADAMIA DR. 5.488 MI. | E. KIPIMANA ST. 5.994 MI. | KEAU–PAHOA BYPASS RD (RTE 130) 6.641 MI. | ACC. FROM MAMALAHOA HWY. 7.131 MI. | OLD KEAU–PAHOA RD (RTE 139) 7.284 MI. | OLD VOLCANO RD. 7.770 MI. | PAVED ROAD 8.273 MI. | PA'AHANA ST. 8.524 MI. | AKA'AKAI ST. END DIVDED 8.774 MI. | BEGIN DIVDED BOND ST. 8.860 MI. | MEAULU ST. 8.958 MI. | KUIAMNA ROAD END DIVDED NORTH ROAD 9.093 MI. | PAVED ROAD SOUTH RD. 9.240 MI. | BEGIN DIVDED OLA'A ROAD 9.392 MI. | END DIVDED 9.689 MI. | HUNA ROAD 9.798 MI. | HALE PULE LP. 9.988 MI. 9.991 MI.

KANOELEHUA AVE. – VOLCANO ROAD

10.00 MI. CONTINUES ON SHEET #2

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided
- Shoulder: Width and Type (COMBINATION BIKELANE & SHOULDER FROM 0.00 MI.– 6.70 MI.): 10' AC B.L./SHLDR.; 9'–11' AC BIKELANE/SHOULDER; MILLED RUMBLE STRIPS; 9'–11' AC
- Pavement: Width and Type: 12' AC; (12' RAISED GRASS) (5'–11' GRASS); (11' RAISED GRASS); (10' GRASS) (20' RAISED GRASS); 24' AC; 36' AC; 24' AC; (12' AC); 24' AC; 12' AC; 24' AC; 12' AC; 24' AC
- Shoulder: Width and Type: 3'–4' AC; 4'–5' AC; 8'–15' AC; 0'; 8'–10' AC; 0'; 8'–10' AC; 0'; 8'–10' AC
- Median: Width and Type: (9' RAISED GRASS) 8'–20' GRASS; 11' GRASS; 0'–20' GRASS; (CURB); 8'–58' GRASS; 84'–120' GRASS & TREES; TREES & GRASS; (7' CONC.); 2'–9' GRASS; 8'–20' AC; RAISED AC; 3'–5' GRASS; 3'–6' GRASS; 0'–36' PAINT; 0–10' PAINT; 0–10' PAINT
- Median Barriers: (M/M GUARDRAIL)
- Shoulder: Width and Type: 1' AC; 2' AC; 3' AC; (13'–29' AC); 4' AC; (13'–23' AC); 0'; 0'; 0'
- Pavement: Width and Type: 33' AC; (20'–5' GRASS) (WALL WITH CURBS); 24' AC; 12' AC; 12' AC; 12' AC
- Shoulder: Width and Type (COMBINATION BIKELANE & SHOULDER FROM 0.00 MI.– 2.60 MI.): 4' AC BIKE LANE; 8'–10' AC B.L./SHLDR.; 8'–10' AC; 6'–8' AC; 10'–12' AC; 8'–10' AC; 8'–10' AC; 10' AC

Number of Traffic Lanes: 1 – 12'; 2 – 12'; 3 – 11'; 4 – 12'; 2 – 12'; 1 – 12'; 2 – 12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) ALL T. L. 12'; 2–11' (L) T.Ls.
(Right Side) ALL T. L. 12'
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): 6' CONCRETE SIDEWALK
Curb and/or Gutter: Type (Right and Left): CURB & GUTTER; CURB AND GUTTER; AC C.; AC G.; AC C.&G.
Protective Devices: Type, Location and Number ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED
Illumination: Type, Location and Number: 33 M.V. (Low Pressure Sodium); 12 LPS
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62): A
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45): B; A; B; A; B; C; B; C
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: SMALL URBAN (99998); RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: FLAT (1); ROLLING (2)
Speed: 1–Design, 2–Posted: 35 MPH (2); 45 MPH (2); 55 MPH (2); 55 MPH (2), MIN. 40 MPH; 45 MPH (2), MIN 30 MPH; 35 MPH (2); 45 MPH (2), MIN 30 MPH
Intersection Control Devices: Type, Location and Cycle Timing ALL 4 PHASE UNLESS NOTED: 3 PHASE; 4 PHASE
Traffic Stations (Current Year): B71 0011 00009; B71 0011 00076; P71 0011 00130; B71 0011 00320; P71 0011 00529; B71 0011 00664; B71 0011 00777; B71 0011 01063
HPMS Sections – AADT 2017: 25,400; 42,200; 35,700; 32,300; 44,300; 22,600; 22,000; 15,700
HPMS Sections – AADT 2016: 23,200; 35,200; 35,600; 31,800; 43,400; 19,200; 19,400; 13,400
HPMS Sections – AADT 2015: 20,200; 36,397; 34,000; 32,700; 41,700; 23,100; 20,700; 12,500
DOD Sections
Census Tracts
Functional Classification: PRINCIPAL ARTERIAL (3); MINOR ARTERIAL (4)
National Highway System (NHS): ON NHS (1); NOT ON NHS (0)
Previous Projects: Project No., Date and Limits: (1299 + 00); 11N–01–07M, PREVENTIVE MAINTENANCE, 2010; (2000E–01–00, IMPRV., 2004); NH–011–2(24) 1999 WIDENING; NH–011–2(33) 1999 RESURFACE; NH–011–2(33), RESURFACE 1999; 11N–01–91M 1992 RESURFACE 8 LANES; 11MN–01–77M 1977 RESURFACE; F–04–2(9) INBOUND 1962; F–011–2(9) INBOUND 1961; F–011 OUTBOUND; F–011–2(2) 1960; 11M–01–71 1971; 11MN–01–81M 1981 RESURFACE; 11MN–01–93M RESURFACE, 1993; 11NP–01–80M 1980 RESURFACE; F–RF–011–2(13) 1977; 11P–01–70 1971; F–2(3) 1949; F–2(4) 1948; (STP–011–2(29), RESURFACE, 1996); (11M–01–82M (R) 1982); F–2(4) WDR 11(2), 1950

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| Dec 2004 | G.N. |
| **Revised** | |
| 5/06 | G.N. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 1213 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

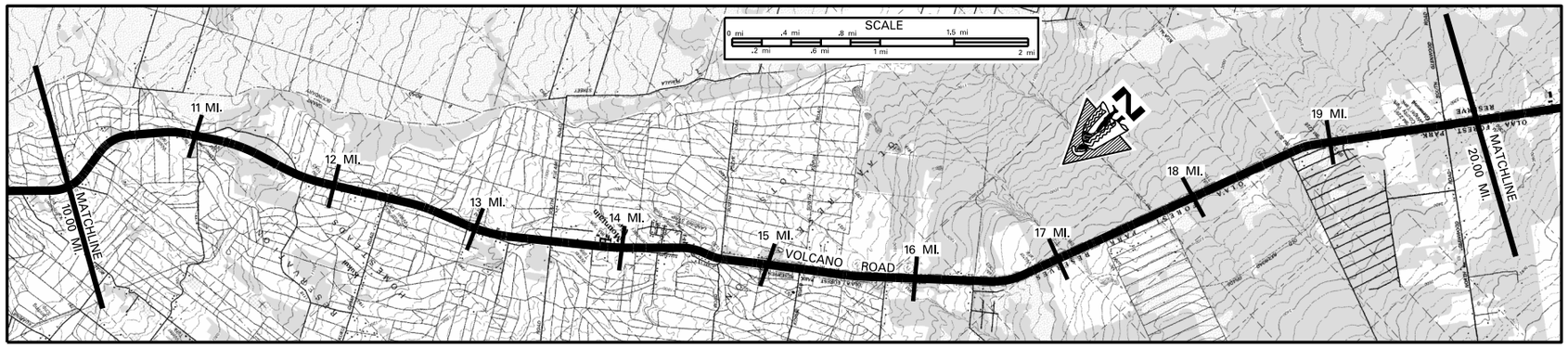
# ROAD INVENTORY
# HAWAII RTE 11
# VOLCANO ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles
- a. Survey Length: 121.970 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: 0.00 miles




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 11 M (9.12 MI.); END 11 L, BEGIN 11 M ON VOLCANO ROAD 50' NORTH OF CENTERLINE OSHIRO ROAD, (16.14); 11 L (12.00 MI.)

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: CULVERT, 1966, HS-20 (42' 55' 43'; 18.68 16.39 19.24)
- Vertical Clearance
- Horizontal Clearance: 44' 44' 44'

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.-max.) If varies: 80' (12.58); 80'-144' (14.43); 80'-125' (19.77); 90'-110'

Available Right of Way Width (Needs Study): RESIDENTIAL AREA, TREES (14.36); LARGE TREES & BRUSH

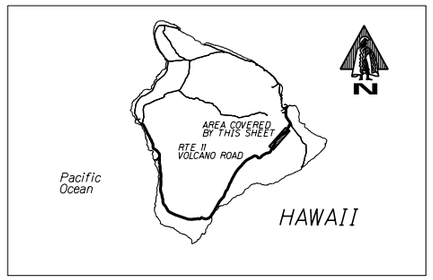
Right of Way Fence: Type – Right and Left: WIRE 12' F.P. (10.72 10.84 11.06 11.08); C.L. 10' F.P. (11.31); C.L. 10' F.P. (11.62 11.82); S.W. 15' F.P. (11.92 12.06); C.L. 20' F.P. (12.32); C.L. WIRE 10' F.P. (12.77 12.80)

Control of Access: 1–None, 2–Partial, 3–Full: NONE

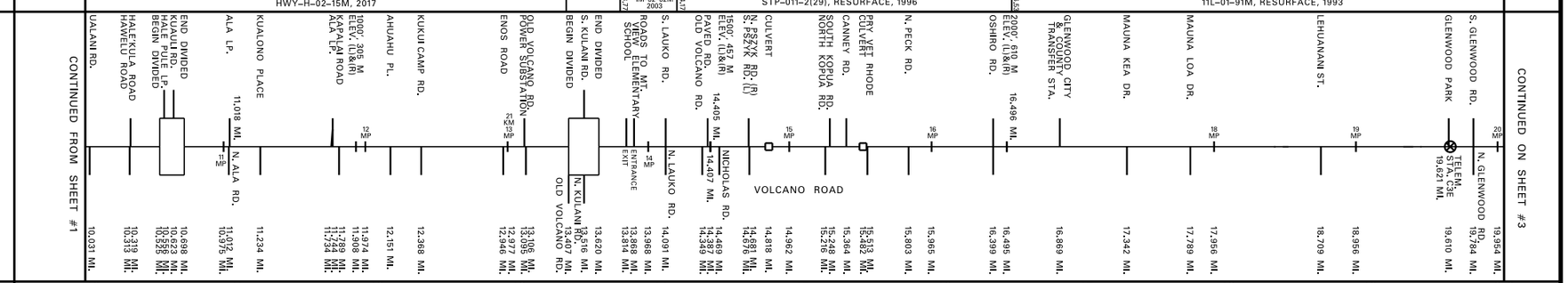
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE (745+00)

Project No., Type of Construction, and Year Constructed: STP-011-2(041), PREVENTIVE MAINTENANCE, 2014 (13.39); (HS-STP-011-2(38), INTR. AND DRAIN IMPRV., 2013) (13.77)

Project No., Type of Construction, and Year Constructed: HWY-H-02-15M, 2017; IM-02-02M 2003 (13.77); STP-011-2(29), RESURFACE, 1996 (14.17); 11L-01-91M, RESURFACE, 1993




**Road Diagram**
* MP = Milepost Signage




SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**
- Shoulder: Width and Type: 8'-10' AC; 8" AC (10.34); 10'-12' AC B. L. / SHLDR. (14.42); 8'-10' AC
- Pavement: Width and Type: 24' AC; 12' AC; 24' AC; 12' AC; (8'-10' AC); 24' AC
- Shoulder: Width and Type: 8'-10' AC; 0; 8'-10' AC; 0; 10'-12' AC B. L. / SHLDR. (14.42); 8'-10' AC
- Median: Width and Type: (0'-11' PAINTED AC) (.535 .698); (0'-11' PAINTED AC) (.407 .620)
- Median Barriers:
- Shoulder: Width and Type: 0; 0
- Pavement: Width and Type: 12' AC; 12' AC
- Shoulder: Width and Type: (8'-10' AC); 8" AC

Number of Traffic Lanes: 2-12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 1-11' (L) T.L. (.595 .691 .623)

(Right Side): (.597 .629 .681)

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left): 4.5' AC SW (.712 .380); 4.5' AC SW (.439 AC G. .576)

Curb and/or Gutter: Type (Right and Left): AC G. (.316 .275); AC G. (.701 .820); AC G. (.721 .035 .314 .262 .320 .282 .588 .558 .777 .772 .100 .235 .286 .675 .696 .823 .832 .791 .853 .835 .364 .301 .514 .480 .612 .696 .697 .643 .955 .913 .733 .694 .273 .277 .764 .849)

Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED

Illumination: Type, Location and Number: FROM 6.71 MI. 33 MV (10.55); LOW PRESSURE SODIUM (11.75); LOW PRESSURE SODIUM; 11 MV (13.56 13.58 .753 .843 .862 .663 .691 .663 .853 .835 .375 .364 .214 .276 .458 .511 .643 .697 .904 .913 15.91 .131 .103 .265 .286)

Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.85) E(13.85-28.62) F(<28.62): B (10.14); A (10.31); B (10.55); A

Superelevation (Range)

Grades Class: +/- % (A(0-.45) B(.45-2.45) C(2.45-4.45) D(4.45-6.45) E(6.45-8.45) F(<8.45): (C) (10.07); D (10.16); C (13.26); B (13.72); C (14.81); D (14.97); C (15.62); D (16.68); C (17.24); B (18.78); C (19.02); B (20.00)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1-Flat, 2-Rolling, 3-Mountainous: ROLLING (2)

Speed: 1-Design, 2-Posted: 45 MPH (2), MIN. 30 MPH; (.844) 55 MPH (2) MINIMUM 40 MPH; (.806) 45 MPH (2); (.849) 55 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing: (.027 .400 .584 .954)

Traffic Stations (Current Year): B71 0011 01063; P71 0000 003CE

HPMS Sections – AADT 2017: 15,700; 7,500

HPMS Sections – AADT 2016: 13,400; (14.68); 7,100

HPMS Sections – AADT 2015: 12,500; 6,700

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

National Highway System (NHS): NOT ON NHS (0)

Previous Projects: Project No., Date and Limits:
- STP-011-2(29), RESURFACE, 1996 (13.77)
- STP-011-2(29), RESURFACE, 1996 (16.53)
- 11M-01-82M (RESURFACE), 1982 (16.44)
- (F-2(4) WOR 11(2) 1950) (10.05)
- 11M-01-71, 1971 (14.13); F-2(4) 1948 (14.92); F-2(6), 1951 (15.79); F-0112(5), 1970 (16.53); 16.48; F-011-2(5), 1970; F-011-2(5), 1967 (19.85); (S-0144(1), 1958)

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| JUNE 05 | D.B. |
| **Revised** | |
| 5/06 | G.N. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

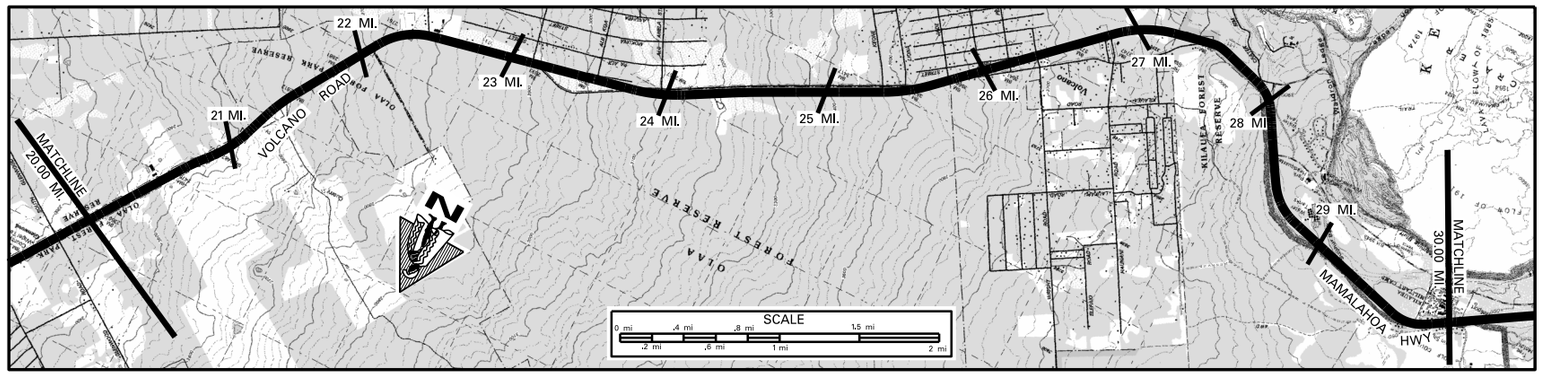
# ROAD INVENTORY
# HAWAII RTE 11
# VOLCANO RD., MAMALAHOA HWY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles
- a. Survey Length: 121.970 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: 0.00 miles



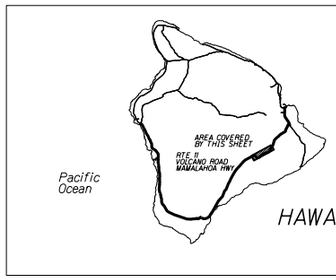

SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 11L (12.00 MI.); END 11K – BEGIN 11L ON MAMALAHOA HWY AT THE CENTERLINE OF VOLCANO NATIONAL PARK ROAD, 26.64; 11K (2.62 MI.)

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

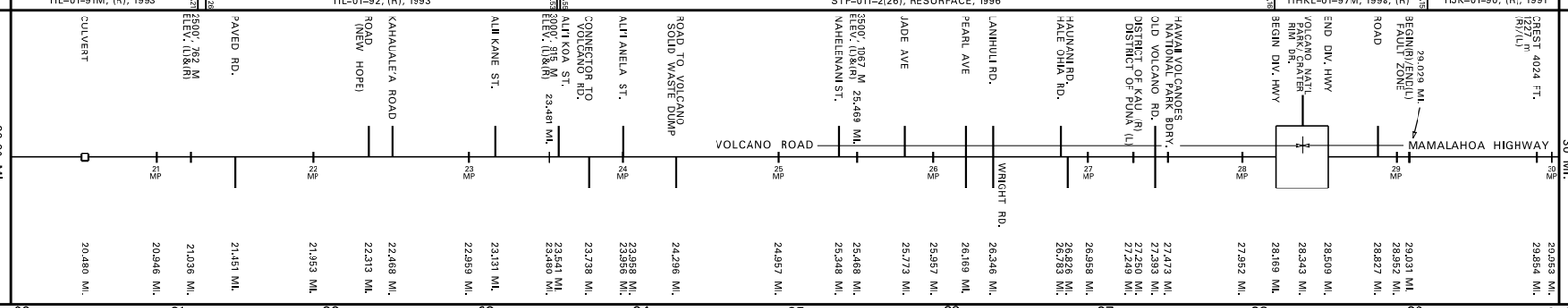
**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: 90'–110' (20.00); 80' (23.54); 50' (26.63); 80'
Available Right of Way Width (Needs Study): LARGE TREES & BRUSH
Right of Way Fence: Type – Right and Left
Control of Access: 1–None, 2–Partial, 3–Full: NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE; FEDERAL (STATE MAINTAINED) (27.56)
Project No., Type of Construction, and Year Constructed: (S–0144 (1), 1958) 21.26–27.47; (F–011–2(11), 1974) 23.53–23.56; 27.56–28.26; 28.26–29.14; 29.14–29.96; —(11K–01–03M, (R),2009); 11K–01–03M, (R),2009
Project No., Type of Construction, and Year Constructed: 11L–01–91M, (R), 1993; 11L–01–92, (R), 1993; STP–011–2(26), RESURFACE, 1996; 11HKL–01–97M, 1998, (R); 11JK–01–90, (R), 1991




## Road Diagram

* MP = Milepost Signage




SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**
- Shoulder: Width and Type: 7'–9' AC; 4'–6' AC (27.56); 2'–4' AC (29.07)
- Pavement: Width and Type: 24' AC; 12' AC; 24' AC
- Shoulder: Width and Type: 8'–10' AC; 2'–4' AC (27.57); 0; 8' AC (28.27); 2'–4' AC
- Median: Width and Type: 0–8' PAINTED AC (1.169; .609)
- Median Barriers:
- Shoulder: Width and Type: 0
- Pavement: Width and Type: 12' AC
- Shoulder: Width and Type: 9' AC

Number of Traffic Lanes: 2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): .246; .343; .431
(Right Side): 12'; .224; 12'; .492; .343
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left): METAL RAIL W/ CONCRETE POSTS
Protective Devices: Type, Location and Number: ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED; .796; .842; .494; .609; .709; .853; .285; .294; .696; .816
Illumination: Type, Location and Number: LOW PRESSURE SODIUM (22.25); LOW PRESSURE SODIUM (23.81); LOW PRESSURE SODIUM (25.83); 2 LOW PRESSURE SODIUM (.287; .298; .492; .498; .853; .285; .291; .706)
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): A; B (27.46); A (27.69); B (27.87); A (29.07); B (29.86); A
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): C (20.18); D (20.46); C (20.62); B (21.01); C (21.34); D (21.65); C (21.90); B (22.08); C (22.72); B (23.01); C (23.17); D (23.75); C (24.08); D (25.11); C (26.62); B (27.14); C (27.28); B (27.42); C (27.78); B (28.83); C (29.04); B (29.32); A (29.35); B (29.70); A
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2); (22.69); FLAT (1); (26.81); ROLLING (2)
Speed: 1–Design, 2–Posted: 55 MPH (2); (27.27); 45 MPH (2), MINIMUM 30 MPH
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): P71 0000 003CE; B71 0011 02740; B71 0011 03005
HPMS Sections – AADT 2017: 7,500; 5,500; 2,222
HPMS Sections – AADT 2016: 7,100; 4,500; 2,200
HPMS Sections – AADT 2015: 6,700; 4,000; 2,100
DOD Sections
Census Tracts: CT 210; (27.56); CT 212
Functional Classification: MINOR ARTERIAL (4)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits:
- (11JK–01–84M, 1985, RESURFACE)
- (FLH–011–2(18), (INT. IMPRV.), 1987) 28.18–28.67; 28.67–29.27; 29.27–29.36; 29.36–29.96
- S–0144(1), 1958; 21.21–21.26; 11L–01–76M, (R), 1977; 23.53–23.56; F–011–2(11), 1974; 27.51; 11KL–01–78M & PMS–0100(11) UNIT 1, RESURFACE, 1978
- F–011–2(5), 1967; 20.60; S–0144(1), 1958; 23.56; F–011–2(11), 1973; 27.53; S–0144(2), 1961; 28.06; NPH–3A, 1962; 28.56; NPH–5A; 29.98; (NPH–3A, 1962)
- STA. 313 + 70.08 – STA. 213 + 03.49; STA. 102 + 79.45 – STA. 184 + 28.90; STA. 157 + 00; STA. 132 + 20

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| JUNE 05, | D.B. |
| **Revised** | |
| 6/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

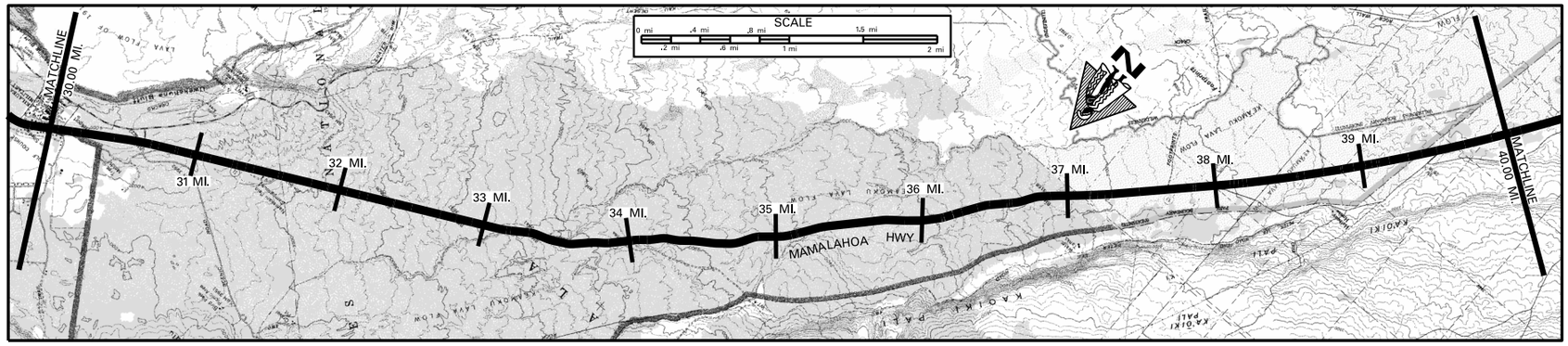
# ROAD INVENTORY
# HAWAII RTE 11
# MAMALAHOA HIGHWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles
**a. Survey Length:** 121.970 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length:** 0.00 miles




SCALE: (In Miles) 2" = 1 mile

**Maintenance Control Sections : Length and Description**
- 11 K (2.62 MI.)
- 30.00 END 11J BEGIN 11K ON MAMALAHOA HWY 1674' SOUTH OF CENTERLINE CRATER RIM RD./ BIRD PARK RD. AT THE CONTOL SECTION MARKER
- 11J (8.45 MI.)
- 39.62 END 11H – BEGIN 11J ON MAMALAHOA HWY 63' SOUTH OF HAWAII NATIONAL PARK BDRY. AT THE CONTROL SECTION MARKER
- 11 H (11.86 MI.)

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

**Right of Way Width (min.–max.) If varies**: 80' | 30.74 100' | 38.34 80'

**Available Right of Way Width (Needs Study)**: LARGE TREES AND BRUSH | 32.07 BUSHES & TREES IN LAVA ROCK

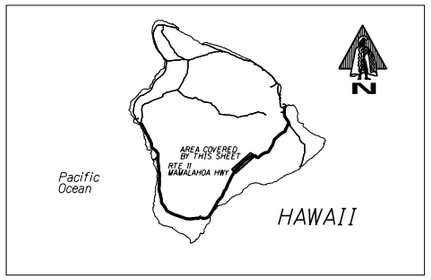
**Right of Way Fence: Type – Right and Left**: (WIRE ON WOOD 15' FROM PAVEMENT L&R) | 39.06

**Control of Access: 1–None, 2–Partial, 3–Full**: NONE

**Jurisdiction, Transfer Phase No. and Date (C to S or S to C)**: FEDERAL (STATE MAINTAINED) | (0000+00) | 30.74 STATE

**Project No., Type of Construction, and Year Constructed**: 11K–01–03M (R), 2009 | 30.65 (STP–0100(31), 1994, G.R. IMPRV.) | 38.74 | 38.86 | 39.34 STP–011–2(042) PREV. MAINT., 2015

**Project No., Type of Construction, and Year Constructed**: 11JK–01–90M, (R), 1991 | 30.65 FLH–011–2(27), RESURFACE, 1998 | 33.35 STP–011–2(28), RESURFACE, 1995 | 37.07 HWY–H–02–15M, 2017




**Road Diagram**
* MP = Milepost Signage

30.00 MI. CONTINUED FROM SHEET #3

KLAUEA MIL. CAMP | CRATER RIM RD. | BEGIN(U)/END(R) "FAULT" ZONE 30.850 MI. | NAMAKANI PAIO CAMPGROUND | PAVED ROAD | 3900', 1066 M ELEV. (L)&(R) | ECB (L) TRAIL TO FOOTPRINTS (KAU DESERT TRAIL HEAD) | 3900', 914 M ELEV. (L)&(R) | PAVED RD. | HAWAII VOLCANOES NAT'L PARK BDRY. | PAVED RD.

MAMALAHOA HIGHWAY

PIT MAUNA DR. 30.048 MI. | MAUNA LOA RD. 30.646 MI. | 31 MP 30.857 MI. | 30.936 MI. | 31.348 MI. | 32 MP 31.941 MI. | 32.942 MI. | 33 MP | 34 MP 33.859 MI. 33.943 MI. | 34.375 MI. | 35 MP 34.960 MI. | 35.933 MI. | 36 MP | 37 MP 36.929 MI. | 37.691 MI. 37.679 MI. | 38 MP 37.934 MI. | 38.170 MI. | 38.578 MI. | 39 MP 38.926 MI. | 39.396 MI. | 39.528 MI. | 40 MP 39.923 MI.

CONTINUED ON SHEET #5 40.00 MI.

SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**
- Shoulder: Width and Type: 2'–4' AC | 30.69 6' AC | 37.10 2'–4' AC
- Pavement: Width and Type: 24' AC | 37.08 22' AC | 39.75 24' AC
- Shoulder: Width and Type: 2'–4' AC | 30.69 5'–7' AC | 37.08 3' AC | 39.75 8'–10' AC
- Median: Width and Type
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

**Number of Traffic Lanes**: 2–12' | 37.08 2–11' | 39.75 2–12'

**Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)**
**(Right Side)**: .235 .304 .348

**Frontage Road: No. of Lanes, and Width (Right and Left)**

**Sidewalk: Width and Type (Right and Left)**

**Curb and/or Gutter: Type (Right and Left)**: .595 .457 .469 .692 .624 .934 .279 .203 .315 .398 .537 .593 .788 .853 .867 .294 .090 .164 .443 .421 .415 .515 .331 .346 .689 .856 Conc, G. .869

**Protective Devices: Type, Location and Number** ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED

**Illumination: Type, Location and Number**: .793 .407 .205 .204 .360 .337 .275 .649 .604 .914 .176 .170 .382 .312 .569 .536 .191 .096 .324 .334 .270 .271 .469 .470 .852 .717 .824 .481 .689 .481 .427

**Curves Class: +/– Degree A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62)**: A | 33.31 B A B | 33.48 A B | 33.82 A | 34.36 B A B | 34.71 A B A B | 34.88 A | 35.67 B | 35.83 A

**Superelevation (Range)**

**Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45)**: A | 30.69 B | 30.57 A | 30.75 B | 30.87 C | 31.26 B | 31.70 C | 32.00 D | 32.15 C | 32.87 B | 33.68 C | 33.96 B | 34.74 C | 35.57 B | 36.13 C | 36.66 | 37.09 C | 37.42 B | 37.64 C | 37.75 B | 38.48 C | 38.73 B | 39.02 C

**Vertical Curve: Crest or Sag, Curve Limits**

**Area and Development:** RURAL (99999)

**Terrain: 1–Flat, 2–Rolling, 3–Mountainous**: ROLLING (2) | .174

**Speed: 1–Design, 2–Posted**: 45 MPH (2), 30 MPH MINIMUM | .0316 55 MPH (2), 40 MPH MINIMUM

**Intersection Control Devices: Type, Location and Cycle Timing**

**Traffic Stations (Current Year)**: B71 0011 03005 | B71 0011 5389

**HPMS Sections AADT 2017**: 2,222 | 30.69 2,800

**HPMS Sections AADT 2016**: 2,200 | 2,400

**HPMS Sections AADT 2015**: 2,100 | 2,275

**DOD Sections**

**Census Tracts**

**Functional Classification**: MINOR ARTERIAL (4)

**National Highway System (NHS)**: NOT ON NHS (0)

**Previous Projects: Project No., Date and Limits**
- 30.58 FLH–011–2(27), RESURFACE, 1998 | 33.35 STP–011–2(28), RESURFACE, 1995 | 37.07
- 30.13–(11JK–01–84M, 1985, RESURFACE) | 33.32 FLH–011–2(19), 1990 | 33.88 (11JK–01–84M, 1985, RESURFACE) | 34.22 | 34.41 | 34.70 FLH–011–2(22), WIDENING, 1991 | 34.80 (11JK–01–84M, 1985, RESURFACE) | 35.93 FLH–011–2(23) 1992 | 37.00 | 37.07 11JK–01–90M, (R), 1991 | 39.60
- (11KL–01–78M & PMS–0100(11) UNIT 1, (R), 1978) 30.84 | 30.96 11J–01–76M (R), 1976 STA. 557 + 90 | 35.16 39.47 11H–01–80M, (R), 1980
- NPH–3A, 1962 30.94 STA. 11 + 00 STA. 780 + 35.41 | NP–3B, 1931 34.46 | NP–3C, 1940 38.83 F–19(5), 1953

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| JUNE 05, | D.B. |
| **Revised** | |
| 6/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY

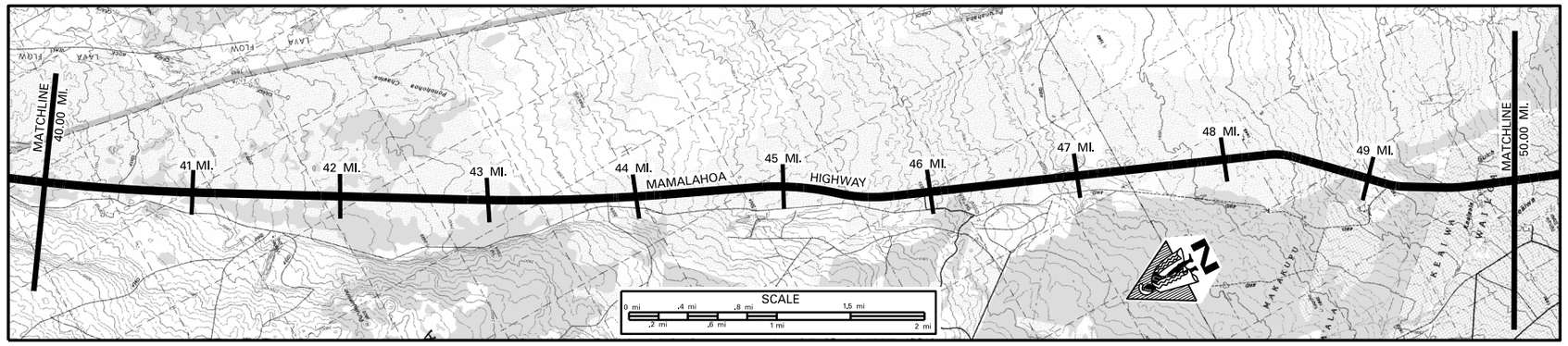
# OAHU RTE 11
# MAMALAHOA HIGHWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles
- a. Survey Length: 121.970 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: 0.00 miles




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 11 H (11.86 MI.)

**Structure Carrying Road**

Bridges (Over 20'): Length, Type, Capacity and Year Constructed: CONC. BOX CULVERT 1997 HS-20-44; PRESTRESSED CONC. PLANK, HL-93, 2006 (160', 73', 145')

Vertical Clearance: 14.07, 19.46, 19.77

Horizontal Clearance: 40', 34', 40'

**Structure Over Road**

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.-max.) If varies: 80', 41.27, 41.44, .90, 80', 60.00, 60'

Available Right of Way Width (Needs Study): BUSHES AND TREES IN LAVA ROCK

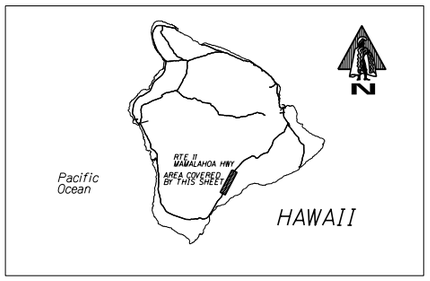
Right of Way Fence: Type – Right and Left: WIRE ON WOOD 15' FROM PAVEMENT (L) & (R); 48.97, 48.96

Control of Access: 1–None, 2–Partial, 3–Full: NONE

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE; 324 + 50; 183 + 00, 183 + 97.81, 200 + 00, 200 + 98

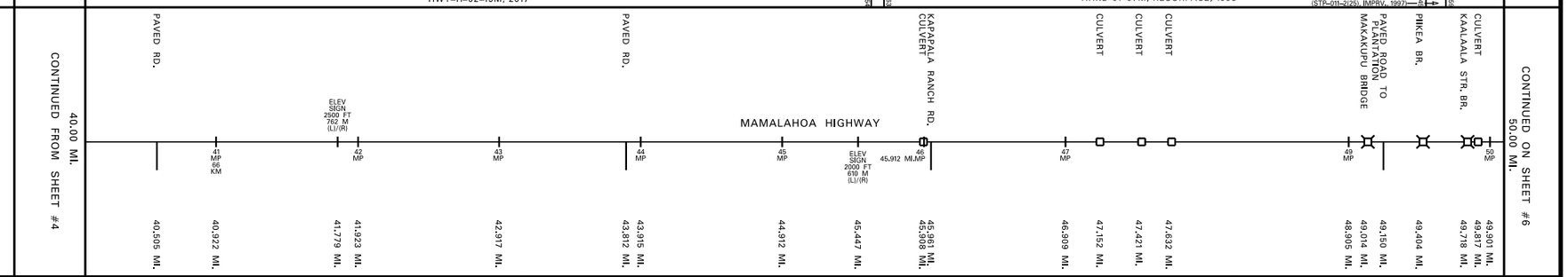
Project No., Type of Construction, and Year Constructed: STP-011-2(042), PAVEMENT PREVENTIVE MAINTENANCE, 2015; 45.63, 45.65; (ER-12(2), BRIDGE REPLACEMENT, 2006); 48.97, 49.15, 49.16, 49.77, 49.78, 50.86

Project No., Type of Construction, and Year Constructed: HWY-H-02-15M, 2017; 11HKL-01-97M, RESURFACE, 1998; (11HKL-01-97M RESURFACE, 1998) (STP-011-2(25), IMPRV., 1997)




**Road Diagram**

* MP = Milepost Signage




SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**

Shoulder: Width and Type: 8' AC; 3' AC / 3' GRAVEL; 6' AC; 7'-8' AC; 3' AC / 3' GRAVEL; 7' AC; 3' AC / 3' GRAVEL; 4'-6' AC; 6'-8' AC; 6'-8' AC

Pavement: Width and Type: 24' AC; 22' AC

Shoulder: Width and Type: 8'-10' AC; 3' AC / 3' GRAVEL; 8' AC; 3' AC/2' GRAVEL; 7' AC; 3' AC / 3' GRAVEL; 4'-5' AC; 5'-7' AC; 5'-7' AC; 7'-9' AC; 6'-7' AC

Median: Width and Type

Median Barriers:

Shoulder: Width and Type

Pavement: Width and Type

Shoulder: Width and Type

Number of Traffic Lanes: 2-12'; 2-11'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)

(Right Side)

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left)

Curb and/or Gutter: Type (Right and Left): Conc. G.; AC GUTTER; CONC. GUTTER

Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED

Illumination: Type, Location and Number

Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.85) E(13.85-28.62) F(<28.62): A

Superelevation (Range)

Grades Class: +/- % (A(0-.45) B(.45-2.45) C(2.45-4.45) D(4.45-6.45) E(6.45-8.45) F(<8.45): C, B, C, B, C, B, C, D, C, D, C, D, B, C, E, D, C, D

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)

Speed: 1–Design, 2–Posted: 55 MPH (2) MINIMUM 40 MPH

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 05389

HPMS Sections – AADT 2017: 2,800

HPMS Sections – AADT 2016: 2,400

HPMS Sections – AADT 2015: 2,275

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

National Highway System (NHS): NOT ON NHS (0)

Previous Projects: Project No., Date and Limits: 11H-01-80M, RESURFACE, 1980; 45.63; 11HKL-01-97M, (RESURFACE), 1998; (11GH-01-82M, (RESURFACE), 1982) 49.51; 11H-01-80M, RESURFACE, 1980; (11GH-01-81, (SHOULDER STABILIZATION), 1981) 49.51; 49.82; 48.25; 11G-01-78, 1978, (SHOULDER STABILIZATION); F-18(5), 1953; 45.00; WER 1(7), 1948; 48.89; FAP 18 B 1938

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| June 2005, D.B. |

| Revised | |
|---|---|
| 6/06 | D.B. |
| 1/07 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

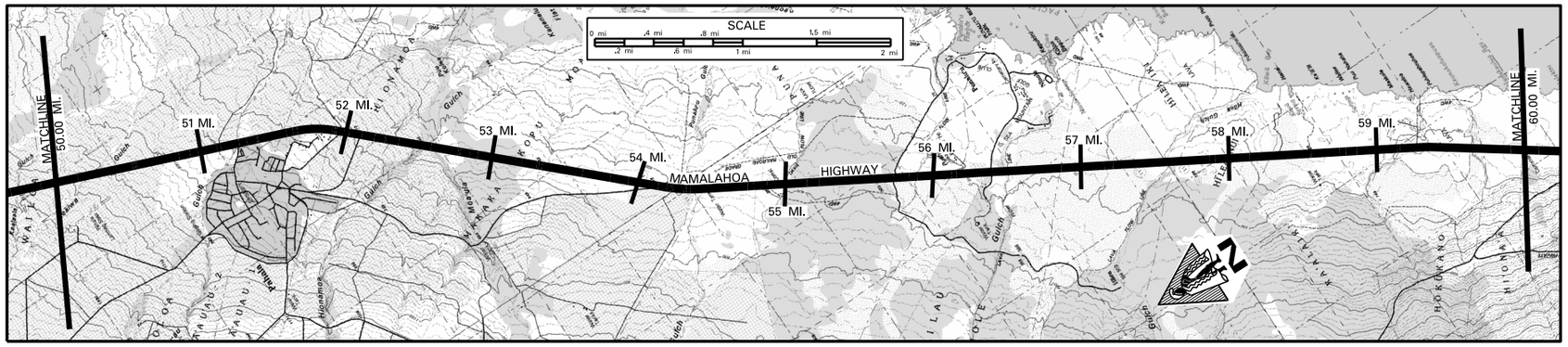
# ROAD INVENTORY
# HAWAII RTE 11
# MAMALAHOA HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles
- a. Survey Length: 121.970 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: 0.00 miles




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 11 H (11.86 MI.); END 11G – BEGIN 11H ON MAMALAHOA HWY. AT THE CENTERLINE INTERSECTION WITH KAMANI ST. (53.94); 11G (9.20 MI.)

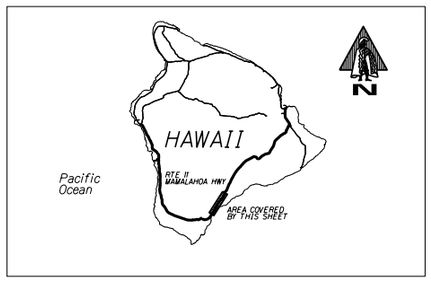
**Structure Carrying Road**

| | |
|---|---|
| Bridges (Over 20'): Length, Type, Capacity and Year Constructed | PRECAST PLANK 2001, HL-93 234' (50.35); PRE-STRESSED CONC. PLANKS 2003, HL-93 126' (51.32); CONC. FRAME 1938, H-15 82' (52.63) 70' (52.72); SLAB 1938, H-15 43' (53.45); TEE-BEAM 1940, H-15 31' (54.53); TIMBER STRINGER 1950, H-15 60' (56.58); TIMBER STRINGER 1940, H-15 41' (57.70) |
| Vertical Clearance | |
| Horizontal Clearance | 40' 40' 24' 24' 24' 24' 24' 24' |

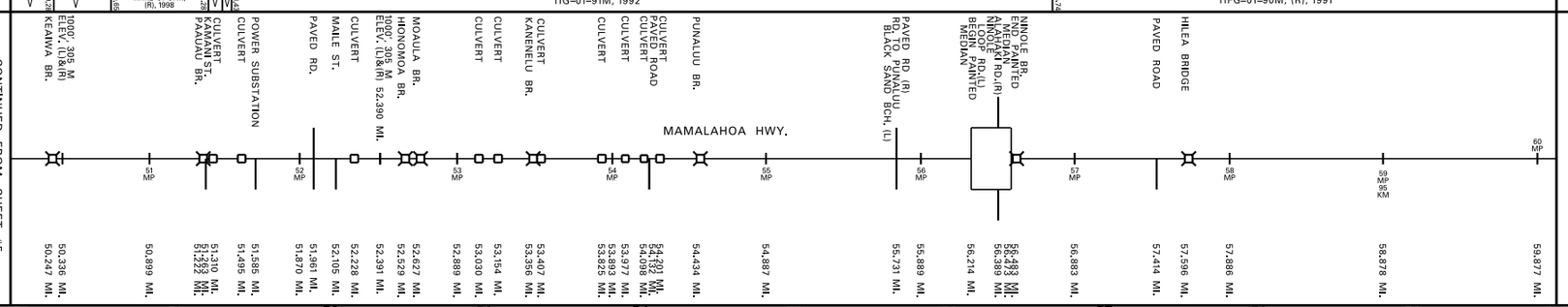
**Structure Over Road**

| | |
|---|---|
| Vertical Clearance | |
| Horizontal Clearance | (65') 51.21 60' 51.36 (60') 100' 52.14 52.35 52.36 60' (85') 54.63 |

| | |
|---|---|
| Right of Way Width (min.–max.) If varies | 60' 60' 60' 60'–80' 60' |
| Available Right of Way Width (Needs Study) | BUSHES AND TREES ON LAVA ROCK; BUSHES AND LARGE TREES ON LAVA ROCK CUT SLOPES |
| Right of Way Fence: Type – Right and Left | WIRE ON WOOD 15' FROM PAVEMENT (L) & (R) |
| Control of Access: 1–None, 2–Partial, 3–Full | NONE |
| Jurisdiction, Transfer Phase No. and Date (C to S or S to C) | STATE |
| Project No., Type of Construction, and Year Constructed | (ER-12(3), (BRIDGE REPLACEMENT), 2003); (11HKL-01-97M, (R), 1998); (ER-12(1), (BRIDGE REPLACEMENT), 2001); (11GH-01-82M, (R), 1982); 389+50; 392+75; (11G-01-04, DRAINAGE IMPR, 2008); 11G-01-91M, 1992 |
| Project No., Type of Construction, and Year Constructed | 11HKL-01-97M, (R), 1998; 11FG-01-90M, (R), 1991 |




**Road Diagram**
* MP = Milepost Signage




SCALE: (In Miles) 2" = 1 mile

**Divided Highway**

| | |
|---|---|
| Undivided – Shoulder: Width and Type | 4'–9' AC; 4'–8' GRASS; (4'–8' GRASS); 4' AC; 4'–6' AC; (15' AC); 4'–6' AC |
| Undivided – Pavement: Width and Type | (6' GRAVEL); (8' GRAVEL); 22' AC; 20' AC; 10'–18' AC; 20' AC |
| Undivided – Shoulder: Width and Type | 4'–9' AC; 5'–15' GRASS; (6'–16' GRASS); 4' AC; 0; 4' AC; 4'–6' AC |
| Undivided – Median: Width and Type | 0–9' PAINTED AC |
| Median Barriers: | |
| Shoulder: Width and Type | 0 |
| Pavement: Width and Type | 10'–18' AC |
| Shoulder: Width and Type | 4' AC |

| | |
|---|---|
| Number of Traffic Lanes | 2–11'; 2–10'; 1–10'–18' (L) & (R); 2–10' |
| Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) | |
| (Right Side) | |
| Frontage Road: No. of Lanes, and Width (Right and Left) | |
| Sidewalk: Width and Type (Right and Left) | |
| Curb and/or Gutter: Type (Right and Left) | AC G.; (C. C.&G.); (AC G.); (4' CONC. GUTTER) |
| Protective Devices: Type, Location and Number (ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED) | |
| Illumination: Type, Location and Number | |
| Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) | A |
| Superelevation (Range) | |
| Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) | D C D C B D C D A A B B B C B C D E D A C A B B A B A C D B A B C D C A C B (A) |
| Vertical Curve: Crest or Sag, Curve Limits | |
| Area and Development: | RURAL (99999) |
| Terrain: 1–Flat, 2–Rolling, 3–Mountainous | ROLLING (2) |
| Speed: 1–Design, 2–Posted | 55 MPH (2) MINIMUM 40 MPH |
| Intersection Control Devices: Type, Location and Cycle Timing | |
| Traffic Stations (Current Year) | B71 0011 05389; B71 0011 06341 |
| HPMS Sections – AADT 2017 | 2,800; 3,600 |
| HPMS Sections – AADT 2016 | 2,400; 3,700 |
| HPMS Sections – AADT 2015 | 2,275; 3,722 |
| DOD Sections | |
| Census Tracts | |
| Functional Classification | MINOR ARTERIAL (4) |
| National Highway System (NHS) | NOT ON NHS (0) |
| Previous Projects: Project No., Date and Limits | 11 HKL-01-97M, (RESURFACE), 1998; 11GH-01-82M, (RESURFACE), 1982; 11GH-01-82M, (R), 1982; 11GH-01-81, (SHLDR. STAB.), 1981; 11G-01-78, (SHLDR. STAB.), 1978; FAP 18 B 1938; FAP 18C(1), 1940; FAP 18C(1), 1938 |

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| Jan. 2006 | D.B. |
| **Revised** | |
| 6/06 | D.B. |
| 4/09 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

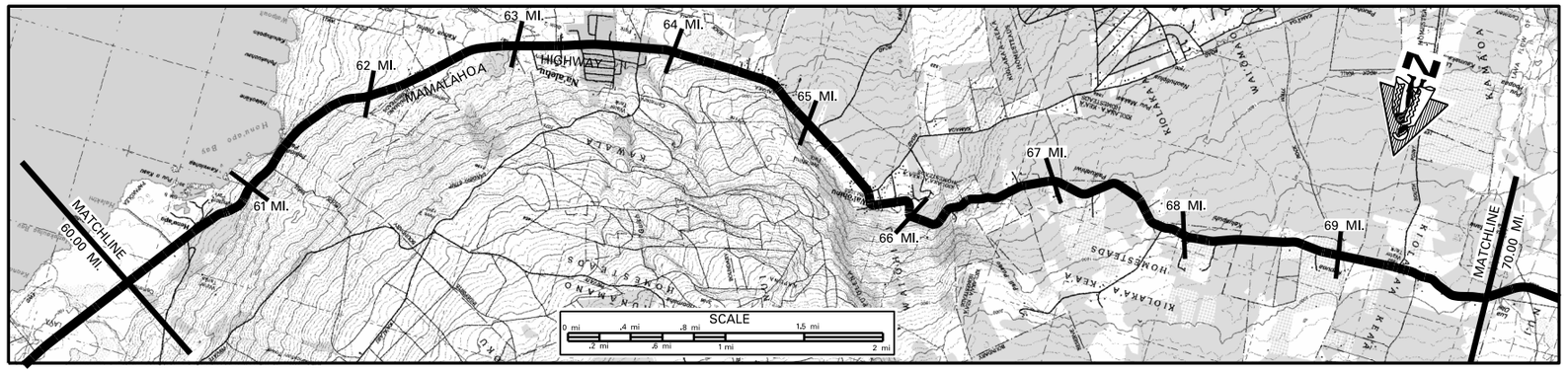
# ROAD INVENTORY
# HAWAII RTE 11
# MAMALAHOA HIGHWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles
- a. Survey Length: 121.970 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: 0.00 miles




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description
- 11G (9.20 MI.) — BEGIN 11 G – END 11 F – BEGIN 11 G ON MAMALAHOA HWY AT CENTER-LINE INTERSECTION WITH HONUAPO WHARF RD.
- 11F (8.98 MI.)
- END 11E – BEGIN 11F ON MAMALAHOA HWY 79' WEST OF CENTER-LINE INTERSECTION WITH SOUTH POINT ACCESS ROAD.
- 11E (9.31 MI.)

Structure Carrying Road — Bridges (Over 20'): Length, Type, Capacity and Year Constructed: SLAB 1940, H-15
- Vertical Clearance: 44'
- Horizontal Clearance: 24'

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: 60' / 60'–110'

Available Right of Way Width (Needs Study): BUSHES, LARGE TREES ON LAVA ROCK CUT SLOPES; RESIDENTIAL; TREES – DENSE BRUSH – GRASS

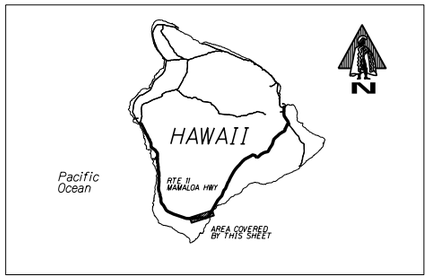
Right of Way Fence: Type – Right and Left: WIRE ON WOOD 16' FROM PAVEMENT; (ROCK WALL); FENCE; ROCK WALL

Control of Access: 1–None, 2–Partial, 3–Full: NONE

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE; (11E–01–10M, GUARDRAILS, 2011)

Project No., Type of Construction, and Year Constructed: (COUNTY, P–1942, 1974); HSIP–011–2(37), SAFETY IMPRV., 2010

Project No., Type of Construction, and Year Constructed: 11FG–01–90M (R) 1991; 11EF–01–93M (R) 1996




**Road Diagram**
* MP = Milepost Signage

CONTINUED FROM SHEET #6

HONUAPO BR. HONUAPO WHARF ROAD; NAALEHU DRIVER LICENSE STA. POWER SUB-STATION; NAALEHU SCHOOL ROADS CULVERT; NU STREET; KAALEHU BRIDGE RD. PUAALA PL.; KAALEHU RD.(R) KAALEHU SPUR RD.(L); WATER TANK RD.; KAUALUALU RD. CULVERT; WAIOHINU PARK; KAMAOA RD.; PINAO ST.; KAULIA RD. KONOHIKI ST.; KIOLA KA'A RD.; CULVERT PAVED ROAD; CULVERT CULVERT; LORENZO RD. SOUTH POINT RD.

MAMALAHOA HWY

MP: 61, 62, 63, 64, 65, 66, 66.5, 67, 67.5, 68, 68.5, 69, 69.5, 70

60.491 MI. 60.435 MI. 60.875 MI. 61.875 MI. 62.422 MI. 62.411 MI. 62.875 MI. 63.240 MI. 63.403 MI. 63.287 MI. 63.493 MI. 63.626 MI. 63.694 MI. 63.781 MI. 63.879 MI. 64.569 MI. 64.872 MI. 65.083 MI. 65.057 MI. 65.288 MI. 65.575 MI. 65.719 MI. 65.869 MI. 65.826 MI. 66.365 MI. 66.870 MI. 67.369 MI. 67.860 MI. 67.853 MI. 68.354 MI. 68.248 MI. 68.224 MI. 69.010 MI. 68.934 MI. 68.862 MI. 69.500 MI. 69.379 MI. 69.335 MI. 69.868 MI.

CONTINUED ON SHEET #8

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided
- Shoulder: Width and Type: 4'–6' AC; 4'–6' GRASS; 4'–6' BP; 4'–16' GRV.; 4'–15' GRASS; 4'–8' BP; 8' GRASS; 15' GRS.; 0'; 15' AC; 2'–8' GRASS; 2'–8' BP; 0'; 2'–8' GRS.; 2' – 4' AC; (EDGELINE MILLED RUMBLE STRIP); 4'–6' AC
- Pavement: Width and Type: 20' AC; (12' GRAVEL); 22' AC; 25' AC; 24' AC; 18' AC; (6'–12' GRV.); (12' AC); 22' AC; 24' AC; 22' AC; 24' AC
- Shoulder: Width and Type: 4'–6' AC; 6' AC; 24'–10' GRASS; 4'–8' AC; 2'–6' GRASS; 2'–5' AC; 4'–15' GRS.; 4'–15' GRV.; (6'–10' BP); 6'–10' AC; 5'–10' GRASS; 4'–8' AC; 18' DIRT; 4'–12' AC; 4'–10' GRASS; 14'–18' GRAVEL; 2'–18' GRS.; 2'–8' AC; 2'–12' GRASS; (12'–10' GRV.); 4'–12' AC; 4'–10' GRAVEL; (EDGELINE MILLED RUMBLE STRIP); 2' – 4' AC; 4'–6' AC
- Median: Width and Type
- Median Barriers: (RAISED PAVEMENT MARKER CENTERLINE RUMBLE STRIP); (CENTERLINE MILLED RUMBLE STRIP)
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

Number of Traffic Lanes: 2–10'; 2–11'; 2–12'; 2–9'; 2–11'; 2–12'; 2–11'; 2–12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)

(Right Side)

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left): 6' CONC. S.W.

Curb and/or Gutter: Type (Right and Left): CONC. CURB; AC G.

Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED; METAL RAILS/ CONCRETE POSTS

Illumination: Type, Location and Number: MV

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2); MOUNTAINOUS (3); ROLLING (2)

Speed: 1–Design, 2–Posted: 45 MPH (2); 35 MPH (2); 45 MPH (2); (35 MPH (2); 25 MPH (2); 35 MPH (2); 45 MPH (2); (55 MPH (2) = MIN. 40 MPH)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 06241; B71 0011 09362

HPMS Sections – AADT 2017: 3,600; 4,800

HPMS Sections – AADT 2016: 3,700; 4,200

HPMS Sections – AADT 2015: 3,722; 3,700

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

National Highway System (NHS): NOT ON NHS (0)

Previous Projects: Project No., Date and Limits
- (FAP 18C (1), 1938)
- 60.29 FAGH 18 D(1), 1938 60.81 (STA. 778 + 66.33; STA. 748 + 50)
- 62.59 COUNTY (P–1942) 1974
- COUNTY
- 65.10 COUNTY (P–1829) 1974

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| Feb 2001 | |
| **Revised** | |
| 5/06 | G.N. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

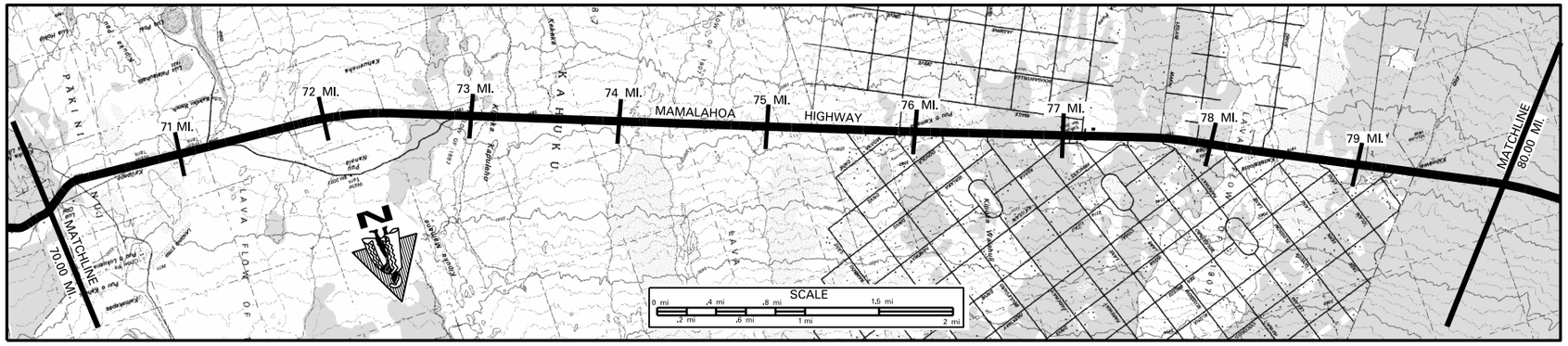
# ROAD INVENTORY
# HAWAII RTE 11
# MAMALAHOA HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles
- a. Survey Length: 121.970 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: 0.00 miles




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description
- 11E (9.31 MI.)
- END 11D – BEGIN 11E ON MAMALAHOA HWY AT THE CENTERLINE OF IOLANI LANE. 78.88
- 11D (9.85 MI.)

Structure Carrying Road
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: 60'–110' | 100' | 90' | 60'–110' | 80' | 85' | 80' | 90' (80')

Available Right of Way Width (Needs Study): TREES – DENSE BRUSH – GRASS | TREES & BRUSH | 1000' CLEAR – LAVA ROCK 15' FROM EDGE OF PAVEMENT | TREES AND HEAVY BRUSH

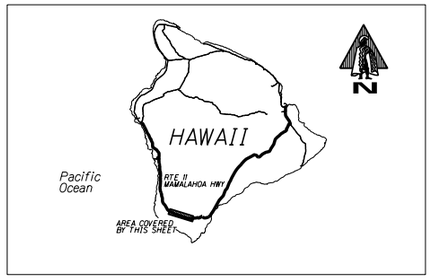
Right of Way Fence: Type – Right and Left: ROCK WALL

Control of Access: 1–None, 2–Partial, 3–Full: NONE

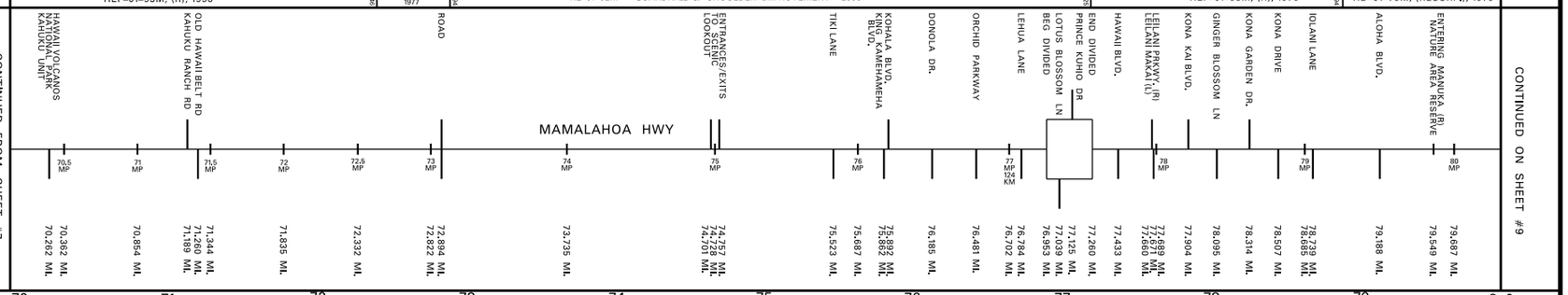
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE

Project No., Type of Construction, and Year Constructed: 11E–01–10M, GUARDRAILS, 2011

Project No., Type of Construction, and Year Constructed: 11EF–01–93M, (R), 1996 | COUNTY (P–1957) 1977 | 11E–01–02M GUARDRAIL & SHOULDER IMPROVEMENT 2005 | 11EF–01–93M, (R), 1976 | 11D–01–79M, (RESURF.), 1979




**Road Diagram**
* MP = Milepost Signage




SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided
- Shoulder: Width and Type: 4'–6' AC | 8'–10' AC | 6' BP
- Pavement: Width and Type: 24' AC | 12' AC | 24' AC | 22' AC
- Shoulder: Width and Type: 4'–6' AC | 8'–10' AC | 0 | 8'–10' AC | 6' BP
- Median: Width and Type: 0–11' PAINTED AC
- Median Barriers:
- Shoulder: Width and Type: 0
- Pavement: Width and Type: 12' AC
- Shoulder: Width and Type: 10' AC

Number of Traffic Lanes: 2–12' | 2–11'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side): 1–12' (L) T.L.

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left)

Curb and/or Gutter: Type (Right and Left): AC C

Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED

Illumination: Type, Location and Number

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): C A B | A

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): B A B C A B A B C B A B A B C B

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)

Speed: 1–Design, 2–Posted: 45 MPH (2) | 55 MPH (2) | 45 MPH (2) | 55 MPH (2) (MINIMUM 40)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011, 9362

HPMS Sections – AADT 2017: 4,800

HPMS Sections – AADT 2016: 4,200

HPMS Sections – AADT 2015: 3,700

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

National Highway System (NHS): NOT ON NHS (0)

Previous Projects: Project No., Date and Limits
- COUNTY (P–1957) 1977 | 11E–01–75, 1976 | 11EF–01–93M, (R), 1976 | 11D–01–79M (RESURF.) 1979
- (COUNTY (P–1829) 1974) | COUNTY (P–1957) 1974 | COUNTY (P–2129) 1977 | COUNTY | BF–011–(3) 1959

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| Feb 2006, D.B. |

| Revised | |
|---|---|
| 5/06 | G.N. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY
# HAWAII RTE 11
# MAMALAHOA HWY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
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FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles
- a. Survey Length: 121.970 miles
- b. Proposed Length: 0.00 miles
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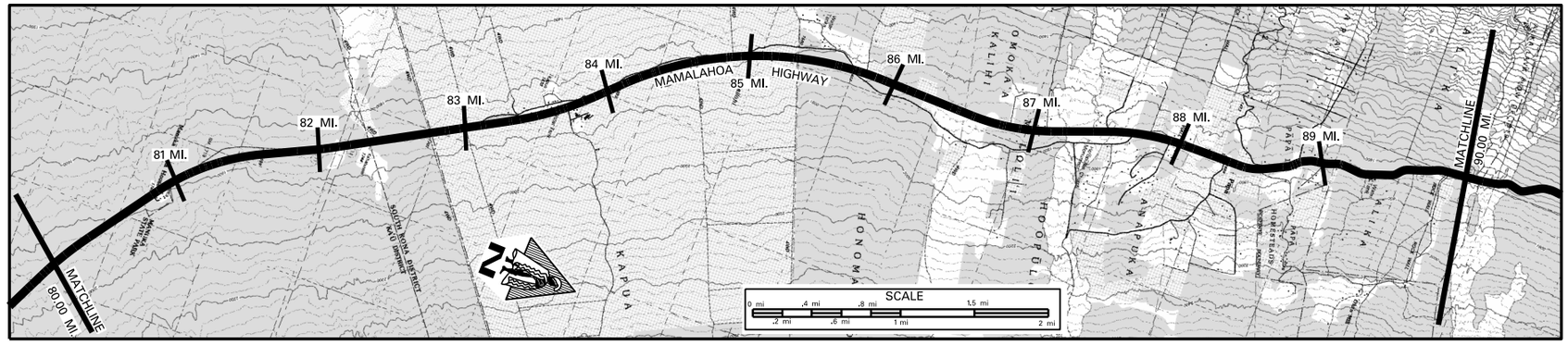



SCALE: (In Miles) 2" = 1 mile

**Maintenance Control Sections : Length and Description**

11 D (9.85 MI.) — END 11C – BEGIN 11D ON MAMALAHOA HWY AT THE CENTERLINE INTERSECTION WITH MILOLII ACCESS ROAD. — 11 C (12.43 MI.)

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

**Right of Way Width (min.–max.) If varies**: (80'–100') 80' 80' 90' 80' 90' 80' 80'–120' 80' 80'–105' 80' 80'–150' 80'–95' 80'–90' 50'

**Available Right of Way Width (Needs Study)**: TREES & HEAVY BRUSH — LAVA ROCK & LARGE TREES

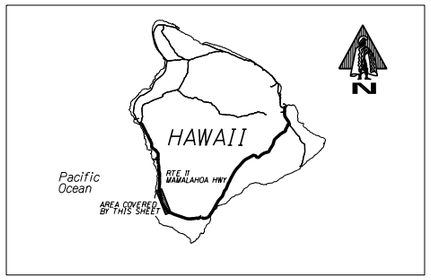
**Right of Way Fence: Type – Right and Left**: (ROCK WALL) — (STONEWALL 20' FROM E.P.) — (STONEWALL 20' FROM E.P.) — RUBBLE WALL 20' FROM E.P. / FENCE — RUBBLE WALL 20' FROM E.P. / FENCE

**Control of Access: 1–None, 2–Partial, 3–Full**: NONE

**Jurisdiction, Transfer Phase No. and Date (C to S or S to C)**: STATE — (112 + 70)

**Project No., Type of Construction, and Year Constructed**: HSIP-011-1(26), SAFETY IMPRV., 2010

**Project No., Type of Construction, and Year Constructed**: 11D–01–79M, (RESURF.), 1979 — (BF–011–1(3), 1961) — 11D–01–82M, (RESURF.), 1982 — 11C–01–92, (R) 1994




**Road Diagram**
* MP = Milepost Signage

CONTINUED FROM SHEET #8

MANUKA PARK ENTRANCE (81 MP, 80.637 MI.) — 80.816 MI. — 82 MP 132 KM (81.684 MI.) — DISTRICT OF KONA (R) KAU (L) 82.341 MI. — LEAVING MANUKA (L) NATURE AREA RESERVE (82.683 MI.) — 83 MP (82.656 MI.) — OLD MAMALAHOA HWY. (L) DRIVEWAY (R) (83.011 MI.) — 84 MP (83.834 MI.) — OLD MAMALAHOA HWY. KAPUA ROAD — OLD MAMALAHOA HWY. (84.090 MI.) — OLD MAMALAHOA HWY. (84.743 MI.) — OLD MAMALAHOA HWY. (84.677 MI.) — POWER SUB-STATION (84.960 MI.) — 85 MP (85.160 MI.) — MAMALAHOA HWY — 86 MP (85.709 MI.) — OLD MAMALAHOA HWY. (85.680 MI.) — PAIHI DRIVE (86.033 MI.) — ENTRANCE TO JAMES STEWART RANCH (86.402 MI.) — 87 MP 140 KM (86.680 MI.) — AINA LANI RD. (86.829 MI.) — OHANA RD. (87.083 MI.) — HOOPULOA FARMS ROAD — 88 MP (87.490 MI.) — OLD MAMALAHOA HWY. (87.681 MI.) — LANI KONA RD. (87.933 MI.) — HONOMALINO RD. (88.318 MI.) — PAPA HOMESTEAD RD.(R) MILOLII RD.(L) (88.574 MI.) — 89 MP (88.674 MI.) — PAPA BAY DRIVE (88.821 MI.) — PAPALANI PLACE (88.969 MI.) — ROAD (89.305 MI.) — 90 MP (89.656 MI.) — C.O. WEE HOP RANCH (89.866 MI.)

CONTINUED ON SHEET #10

SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**
- Shoulder: Width and Type: 6' BP
- Pavement: Width and Type: 22' AC
- Shoulder: Width and Type: 6' BP
- Median: Width and Type
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

(EDGELINE MILLED RUMBLE STRIP) — 0'–6' GRASS — 8' AC — 0'–6' AC
(EDGELINE MILLED RUMBLE STRIP) — 20' AC — 24' AC — 20' AC
(RAISED PAVEMENT MARKER CENTERLINE RUMBLE STRIP)
(CENTERLINE MILLED RUMBLE STRIP) — 2'–8' GRAVEL — 8' AC — 2'–8' GRV.

**Number of Traffic Lanes**: 2–11' — 2–10' — 2–12' — 2–10'

**Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)**

**(Right Side)**

**Frontage Road: No. of Lanes, and Width (Right and Left)**

**Sidewalk: Width and Type (Right and Left)**

**Curb and/or Gutter: Type (Right and Left)**

**Protective Devices: Type, Location and Number** — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED

**Illumination: Type, Location and Number**

**Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)**: A

**Superelevation (Range)**

**Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)**

**Vertical Curve: Crest or Sag, Curve Limits**

**Area and Development**: RURAL (99999)

**Terrain: 1–Flat, 2–Rolling, 3–Mountainous**: ROLLING (2) — MOUNTAINOUS (3)

**Speed: 1–Design, 2–Posted**: 55 MPH (2) (MINIMUM 40) — (45 MPH (2)) — 35 MPH (2)

**Intersection Control Devices: Type, Location and Cycle Timing**

**Traffic Stations (Current Year)**: B71 0011 09362

**HPMS Sections – AADT 2017**: 4,800

**HPMS Sections – AADT 2016**: 4,200

**HPMS Sections – AADT 2015**: 3,700

**DOD Sections**

**Census Tracts**

**Functional Classification**: MINOR ARTERIAL (4)

**National Highway System (NHS)**: NOT ON NHS (0)

**Previous Projects: Project No., Date and Limits**

11D–01–79M (RESURF.), 1979 — 83.40 — BF–011–1(3), 1959 — 83.72 — BF–011–1(3), 1961 — 11D–01–82M (RESURF.), 1982 — 89.12 — (11BC–01–91 (IMPRV., REALIGN.), 1993) — 89.57 — 89.74 — 88.61 — 89.12 — 11C–01–76M (RESURF.) 1976 — (FAP 8A, 1932) — 88.61 — 88.85 — FAP 8A, 1930

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| Feb 2001 |

| Revised | |
|---|---|
| Feb 06 | D.B. |
| 6/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

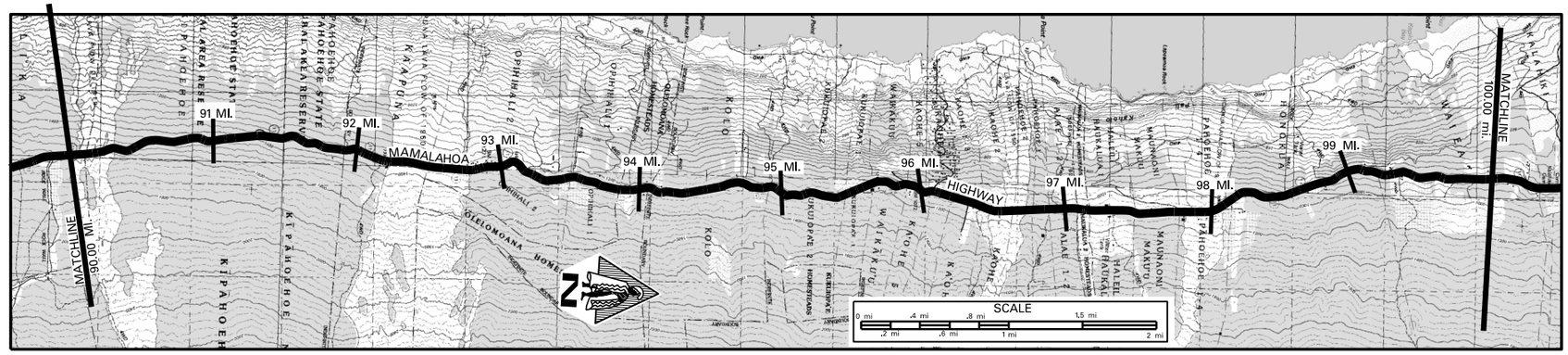
# ROAD INVENTORY
# HAWAII RTE 11
# MAMALAHOA HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles
**a. Survey Length:** 121.970 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length:** 0.00 miles




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description — 11 C (12.43 MI.)

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: 50′ | 80′ | 50′ | 80′ | 50′ | 80′ | 50′

Available Right of Way Width (Needs Study): LAVA ROCK AND LARGE TREES | LAVA ROCK & TREES | RESIDENTIAL AREA | BRUSH AND LARGE TREES

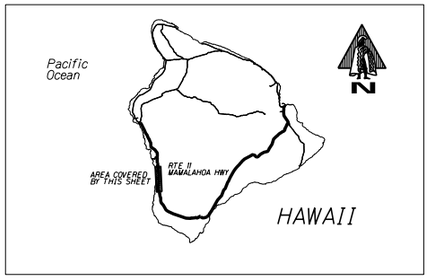
Right of Way Fence: Type – Right and Left: (STONE WALL 20′ FROM EDGE OF PAVMT) RUBBLE WALL / (RUBBLE WALL) FENCE / STONE WALL 20′ FROM EDGE OF PAVEMENT

Control of Access: 1–None, 2–Partial, 3–Full: NONE

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE

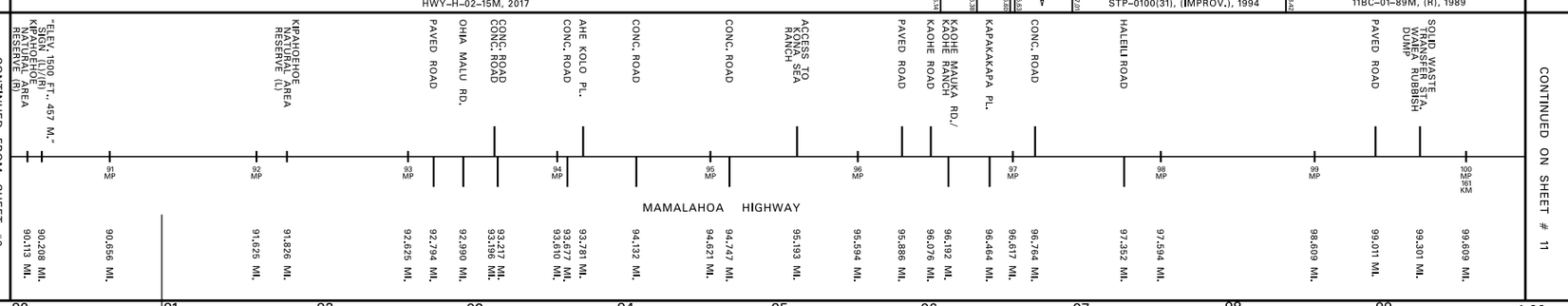
Project No., Type of Construction, and Year Constructed: HSIP–011–1(125), SAFETY IMPRV., 2010 | STP–011–1(026), PAVEMENT PREVENTIVE MAINTENANCE, 2013 | 11BC–01–01M, (RESURFACE), 2004

Project No., Type of Construction, and Year Constructed: HWY–H–02–15M, 2017 | STP–0100(31), (IMPROV.), 1994 | 11BC–01–89M, (R), 1989




## Road Diagram

* MP = Milepost Signage




SCALE: (In Miles) 2" = 1 mile

**Divided Highway — Undivided**
- Shoulder: Width and Type (EDGELINE MILLED RUMBLE STRIP): 0′–6′ GRASS | 8′ AC | 0′–6′ GRASS | 4′ GRAVEL | 0′–4′ GRASS | 0′–4′ GRASS | 4′ AC
- Pavement: Width and Type: 20′ AC | 24′ AC | 20′ AC | 16′–18′ AC | 20′ AC | 16′–18′ AC | 20′ AC | 18′ AC | 20′ AC | 16′–18′ AC
- Shoulder: Width and Type (EDGELINE MILLED RUMBLE STRIP): 2′–8′ GRAVEL | 0′–6′ GRASS | 8′ AC | 0′–6′ GRASS | 3′ AC | 3′–6′ GRASS | 0′–6′ GRASS | 0′–6′ GRASS | 4′ AC
- Median: Width and Type (CENTERLINE MILLED RUMBLE STRIP)
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

Number of Traffic Lanes: 2–10′ | 2–12′ | 2–10′ | 2–(8′–9′) | 2–(8′–9′) | 2–10′ | 2–(8′–9′) | 2–10′ | 2–9′ | 2–10′ | 2–(8′–9′)

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)

(Right Side)

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left)

Curb and/or Gutter: Type (Right and Left)

Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED

Illumination: Type, Location and Number

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62)

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: MOUNTAINOUS (3)

Speed: 1–Design, 2–Posted: 35 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 09362

HPMS Sections AADT 2017: 4,800

HPMS Sections AADT 2016: 4,200

HPMS Sections AADT 2015: 3,700

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

National Highway System (NHS): NOT ON NHS (0)

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| Feb 2006, D.B. | |
| **Revised** | |
| 6/06 | D.B. |
| 9/10 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

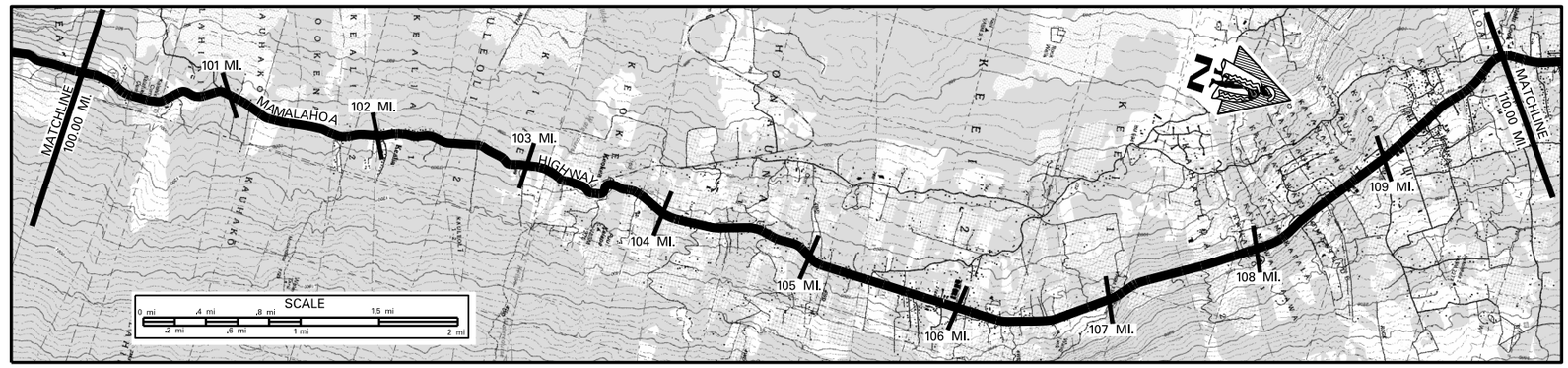
# ROAD INVENTORY
# HAWAII RTE 11
# MAMALAHOA HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles
- a. Survey Length: 121.970 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: 0.00 miles




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 11 C (12.43 MI.); END 11 B – BEGIN 11 C ON MAMALAHOA HWY @ THE CENTERLINE INTERSECTION WITH HOOKENA BEACH ROAD.; 11 B (14.50 MI.)

Structure Carrying Road: Bridges (Over 20'): Length, Type, Capacity and Year Constructed; Vertical Clearance; Horizontal Clearance

Structure Over Road: Vertical Clearance; Horizontal Clearance

Right of Way Width (min.–max.) If varies: 50'; 50'–60'; 60'

Available Right of Way Width (Needs Study): BRUSH & LARGE TREES; RESIDENTIAL AREA

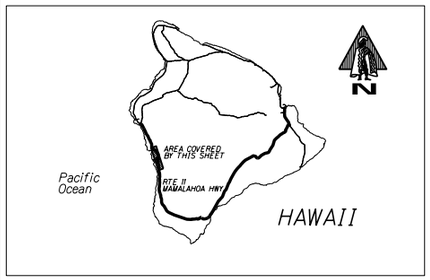
Right of Way Fence: Type – Right and Left: STONE WALL 20' FROM EDGE OF PAVEMENT; (FENCE) (CRM WALL); STONE WALL

Control of Access: 1–None, 2–Partial, 3–Full: NONE

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE; COUNTY

Project No., Type of Construction, and Year Constructed: 11BC–01–01M, (RESURFACE), 2004; 11B–01–96M, (RESURFACE), 1998

Project No., Type of Construction, and Year Constructed: 11BC–01–89M, (R), 1989; 11BC–01–90, (IMPRV.), 1991; 11B–01–86M, (R), 1986




**Road Diagram**
* MP = Milepost Signage

CONTINUED FROM SHEET #10

CULVERT; HOOKENA BEACH RD.; KEALANUI O'AO'I RD.; HOOKENA SCHOOL RDS; ROAD; ROAD; POWER SUB STATION; KITLAE RD.; ROAD TO CITY OF REFUGE (KEALAKEAWE RD.) RTE 160; 1000' 305 M ELEV. (L)&(R) 103.700 MI.; TELEMETRY STATION STATE HWY S. KONA BASEYARD; TELEGRAPH EXCHANGE RD.; MIDDLE KE'EI RD.; ROAD HONAUNAU ELEM. HO'OLALA RD; NANAINA LANI PL.; GOVERNMENT MAIN RD. CULVERT; 1500' 457 M ELEV. (L)&(R) KALAMALANI PL.; ANOI PLACE GOVERNMENT MAIN RD.; KILOA ROAD BEG. DIV. HWY KAMAKANI ST. CAPT. COOK RD. KOA RD.; END DIV. HWY KAMAKANI ST. BEG. DIV. HWY CAPT. COOK RD.

101 MP; 102 MP; 103 MP; 104 MP; 105 MP 169 KM; 106 MP; 107 MP; 108 MP; 109 MP; 110 MP

DOD 785; DOD 790

MAMALAHOA HWY

100.327 MI.; 100.600 MI.; 100.919 MI.; 101.137 MI.; 101.341 MI. 101.397 MI. 101.264 MI.; 101.592 MI.; 101.741 MI.; 102.019 MI.; 102.597 MI. 102.539 MI.; 102.785 MI.; 103.417 MI.; 103.595 MI.; 103.702 MI.; 103.964 MI. 103.854 MI.; 104.258 MI.; 104.593 MI.; 105.407 MI.; 105.595 MI.; 105.869 MI. 105.835 MI.; 106.605 MI.; 107.598 MI.; 107.912 MI.; 108.147 MI. 108.100 MI.; 108.269 MI.; 108.418 MI.; 108.768 MI.; 108.681 MI.; 108.601 MI.; 109.378 MI. 109.335 MI.; 109.722 MI. 109.681 MI. 109.584 MI.

CONTINUED ON SHEET #12

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided:
- Shoulder: Width and Type: 4' AC; 3' AC; 4' AC; 3' AC; 6' AC; 6' AC; 4' GRASS
- Pavement: Width and Type: 16'–18' AC; 18' AC; 22' AC; 18' AC; 20' AC; 10' AC; 20' AC; (10' AC)
- Shoulder: Width and Type: 4' AC; 3' AC; 3' AC; 6' AC; 0; 2' AC; 0; 3'–16' GRASS
- Median: Width and Type: (0'–10' GRASS); (2'–4' AC); (PAINTED MEDIAN 0–10'); (PAINTED MEDIAN 0–6')
- Median Barriers:
- Shoulder: Width and Type: 0; 0
- Pavement: Width and Type: 10' AC; (10' AC)
- Shoulder: Width and Type: 8' AC; (4' AC)

Number of Traffic Lanes: 2–(8'–9'); 2–9'; 2–11'; 2–9'; 2–10'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) (Right Side)

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left): 4' AC SW; 7' AC SW; AC SW; 4' CONC. SW; 6' C. SW

Curb and/or Gutter: Type (Right and Left): AC CURB; AC CURB; AC C.; AC C.; CONC. CURB; C. C.

Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED

Illumination: Type, Location and Number: FLASHING SCHOOL SPEED LIMIT SIGNS; 1 MV; 20 MV

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: MOUNTAINOUS (3); ROLLING (2)

Speed: 1–Design, 2–Posted: 35 MPH (2); 45 MPH (2); 35 MPH (2); 45 MPH (MINIMUM 30 MPH) (2); 45 MPH (2); 30 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 09362; B71 0011 10280; B71 0011 10343; B71 0011 10969

HPMS Sections – AADT 2017: 4,800; 6,700; 7,300; 8,178; 13,938

HPMS Sections – AADT 2016: 4,200; 6,000; 6,700; 0; 13,800

HPMS Sections – AADT 2015: 3,700; 5,300; 6,700; 10,600

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4); PRINCIPAL ARTERIAL (3)

National Highway System (NHS): NOT ON NHS (0); ON NHS (1)

Previous Projects: Project No., Date and Limits: 11BC–01–89M, (R), 1989; 11B–01–96M, (RESURFACE), 1998; 11B–01–81M, (RESURFACE), 1981; (11B–03–70, 1971); 11BC–01–89M, (R), 1989; (HHS–01–1(15), 1976); 11B–03–70, 1971; NRH 8–E, 1936; WPH 8–F, 1936; COUNTY; WPH 8–F, 1936; FAP 8–G, 1937; COUNTY; FAP 8–C, 1931; FAP 8–D, 1931; NRH 8–E, 1935; WPH 8–F, 1935; EXCEPTION; WPH 8–F, 1935; PROJ. #8–G; (450 + 98.70)

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| Feb 2006 | D.B. |
| **Revised** | |
| 6/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY

# HAWAII RTE 11

## MAMALAHOA HWY, KUAKINI HWY, QUEEN KAAHUMANU EXT.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

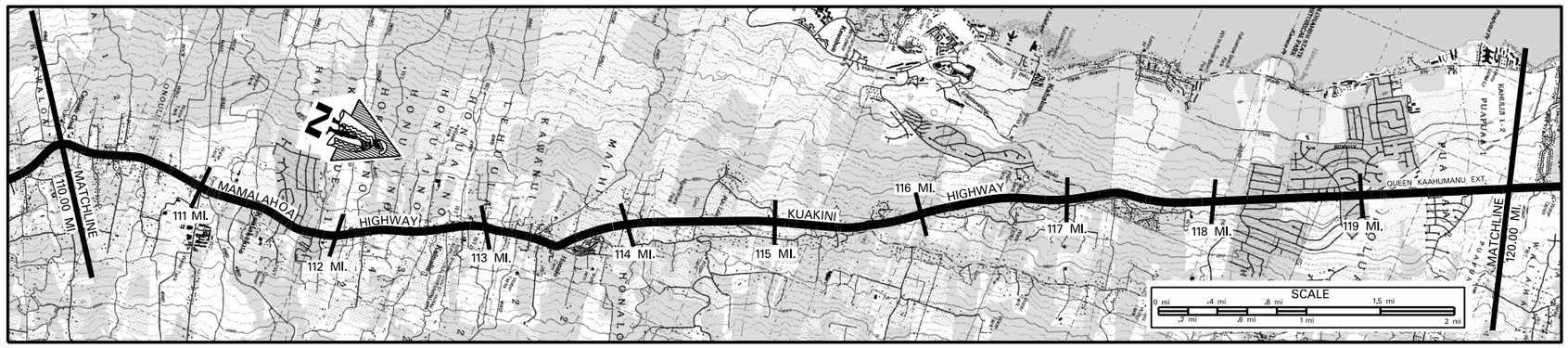
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles

a. **Survey Length:** 121.970 miles

b. **Proposed Length:** 0.00 miles

c. **Other Length:** 0.00 miles




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 11B (14.50 MI.); END 11A – BEGIN 11B ON MAMALAHOA HWY 65' S.E. OF CENTERLINE INTERSECTION WITH KEAUHOU ACCESS RD. (FASC 180); 11A

Structure Carrying Road: Bridges (Over 20'): Length, Type, Capacity and Year Constructed

Vertical Clearance

Horizontal Clearance

Structure Over Road: Vertical Clearance

Horizontal Clearance

Right of Way Width (min.–max.) If varies: 60'; 80'–185'; 200'; 80'–185'; 200'; 100'–500'; 160'–180'; 230'; (170'–450')

Available Right of Way Width (Needs Study): RESIDENTIAL AREA; BRUSH, GRASS & TREES

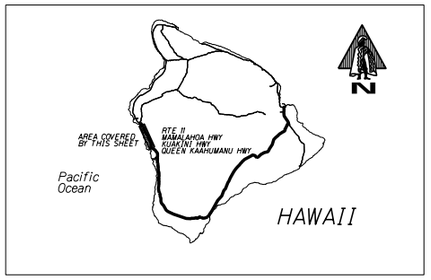
Right of Way Fence: Type – Right and Left: STONE WALL; STONE WALL

Control of Access: 1–None, 2–Partial, 3–Full: NONE

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): COUNTY; STATE

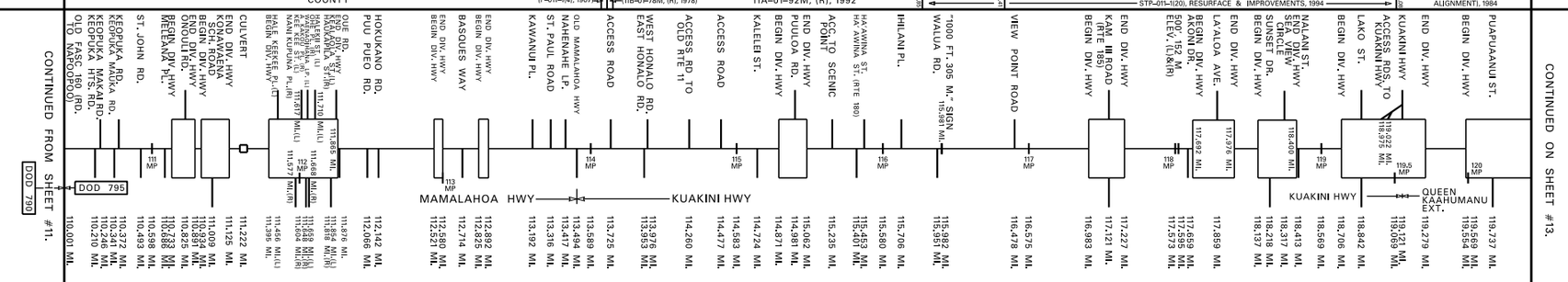
Project No., Type of Construction, and Year Constructed: (11A–03–01 UNIT1, ROADWAY & DRAINAGE IMPRV., 2010); 11A–01–04M, RESURF., 2010

Project No., Type of Construction, and Year Constructed: COUNTY; (F–011–1(4), 1967); (11B–01–78M, (R), 1978); 11A–01–92M, (R), 1992; (STP–011–1(23), (DRAINAGE), 2000); STP–011–1(20), RESURFACE & IMPROVEMENTS, 1994; F–011–1(14), (NEW ALIGNMENT), 1984




**Road Diagram**

* MP = Milepost Signage




SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type: 4' GRS.; 6' GRASS; 2' AC; 2' AC; 0'–6' GRAVEL; 2' AC; 0'–6' GRAVEL; 2' AC; VARIES 4'–6'; 10'; 6' AC; 10'; 8' AC; 10' AC

Pavement: Width and Type: 10' AC; 20' AC; 10' AC; 20' AC; 11' AC; 20' BP; 12' AC; 24' BP; 44' AC; 36' AC; 20' AC; 18' AC; 24' AC; 11' AC; 24' AC; 22' AC; 34' AC; 23' AC; 34' AC; 22'; 11' AC; 22' AC; 12' AC; 24' AC; 12' AC

Shoulder: Width and Type: (3'–15' GRASS); 4' AC; 2'–6' GRV.; 1'–10' GRAVEL; 0; 0; 1'–10' GRAVEL; 0; 4' GRAVEL; 0; VARIES 4'–6'; 0; (31' AC); 10'; 0; 10'; 6' AC; 0; 8' AC; 0; 8' AC; 0; 10' AC; 0

Median: Width and Type: (10' PAINTED AC); 11' PAINTED AC; (0–10' PAINTED AC); 0–12' PAINTED AC; (13'); (6' AC); 0–31' PAINTED AC; 0–12' PAINTED AC; 0–18' PAINTED AC

Median Barriers:

Shoulder: Width and Type: 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0

Pavement: Width and Type: 10' AC; 30' AC; 11' AC; 12'; 12'; (2–10'); (2–18'); (2–15.5'); 11' AC; 11' AC; 11' AC; 12' AC; 12' AC

Shoulder: Width and Type: 2' AC; 2' AC; 2' AC; 2' AC; (2' AC); 6' AC; 6' AC; 8' AC; 10' AC; 10' AC

Number of Traffic Lanes: 2–10'; (2–11'); 2–10'; 2–12'; 2–9'; 2–12'; 2–11'; 2–12'; 2–11'; 1–11' LANE; 1–12' TRUCK CLIMBING LANE; 1–11'; 2–11'; 2–12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)

(Right Side): (8' PARALLEL PARKING)

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left): 8' CONC. SW; 4' CONC. SW; 8' C, SW; 6' C, SW; 7' C, SW

Curb and/or Gutter: Type (Right and Left): AC & CONC. SW; AC & CONC. SW; AC & CONC. C&G; AC & CONC. C&G; AC & CONC. C&G; 5' C, SW; AC, C, C&G; 8' C, SW; C, C&G; 6' C, SW; C, C; C, C&G; AC, C; AC, C; CONC. GUTTER

Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED: METAL RAILS ON CONCRETE POSTS; METAL RAILS ON CONCRETE POSTS

Illumination: Type, Location and Number: 20 MV

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): C A BA B A BA B A BA BA D A B A

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): B C D B C B C B A B E D C B C B C D E D C D E C D C B A B A B C B

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: (RURAL (99999)); SMALL URBAN (99998)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)

Speed: 1–Design, 2–Posted: 30 MPH (2); 25 MPH (2); 30 MPH (2); 25 MPH (2); 30 MPH (2); 55 MPH (2) (MINIMUM 40 MPH); 45 MPH (2); 35 MPH (2); 45 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 10969; B71 0011 11102; B71 0011 11343; B71 0011 11499; B71 0011 11572; B71 0011 11842; B71 0011 11975

HPMS Sections – AADT 2017: 13,938; 14,000; 1,800; 14,600; 14,600; 22,900; 25,300

HPMS Sections – AADT 2016: 13,800; 16,300; 14,600; 15,100; 15,300; 21,500; 22,900

HPMS Sections – AADT 2015: 10,600; 15,200; 16,300; 13,800; 14,200; 20,100; 27,000

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (3)

National Highway System (NHS): ON NHS (1)

Previous Projects: Project No., Date and Limits: STP–0100(31), GUARDRAIL IMPROVEMENTS, 1994; 11A–01–75, TRUCK CLIMB LANE, 1975; 11A–01–79M, RESURFACE, 1979; 11A–01–67, 1967; 11B–01–78M (R), 1978; F–011–1(4), 1963; S–229–1, 1952, BP; F–011–1(14), (NEW ALIGNMENT), 1984; COUNTY

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| Feb 2006, D.B. |

| Revised | |
|---|---|
| 6/06 | D.B. |
| 2/08 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

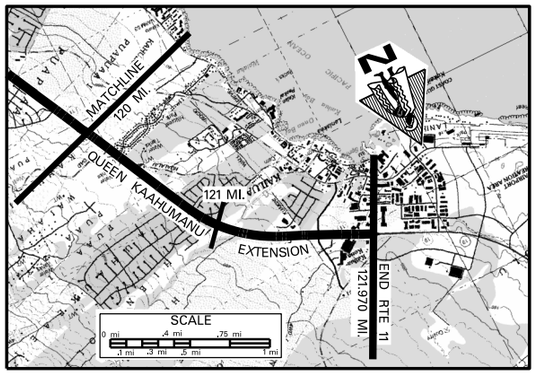
# ROAD INVENTORY
# HAWAII RTE 11
# QUEEN KAAHUMANU EXT.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 121.970 miles
- a. Survey Length: 121.970 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: 0.00 miles




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

**Structure Carrying Road**

Bridges (Over 20'): Length, Type, Capacity and Year Constructed: 5 CELL BOX CULVERT 1884, HS-20-44

Vertical Clearance: 75'

Horizontal Clearance:

**Structure Over Road**

Vertical Clearance:

Horizontal Clearance:

Right of Way Width (min.-max.) If varies: 170'-450'; 210' (120.00); 210' (120.07); 300' (120.08); 110' (120.12); 105' (120.14); 170'; 210' (120.18); 220'-250'

Available Right of Way Width (Needs Study): BRUSH, GRASS & TREES

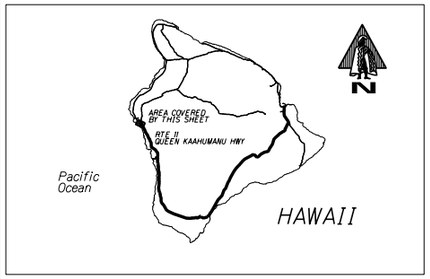
Right of Way Fence: Type – Right and Left: (11A-01-04M, RESURF, 2010)

Control of Access: 1–None, 2–Partial, 3–Full: NONE

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE (11A-01-02 Inter Imp 2005)

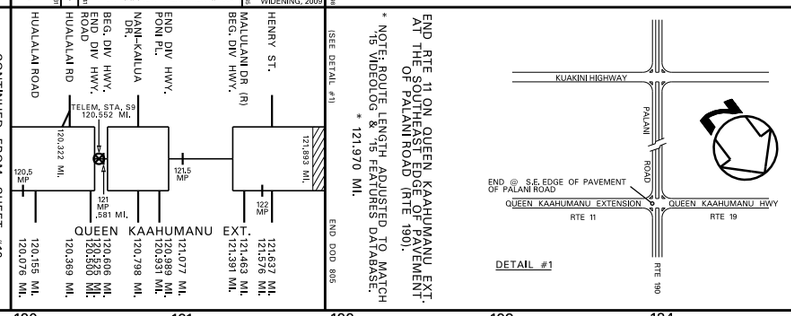
Project No., Type of Construction, and Year Constructed: 193+00; 187+59; 125+93.69; 115+00; -95+30

Project No., Type of Construction, and Year Constructed: (F-011-1(4), (NEW ALIGNMENT), 1984); F-011-1(4), (NEW ALIGNMENT), 1984; NH-019-01(20) WIDENING, 2009




**Road Diagram**

* MP = Milepost Signage




SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**

Shoulder: Width and Type: 10' AC; 6' AC BIKE LANE

Pavement: Width and Type: 12' AC (24' AC); 12' AC; 24' AC; 24' AC

Shoulder: Width and Type: 0 (10' AC); 0; 10' AC; 0 (2' AC)

Median: Width and Type: 0-18' PAINTED AC; 0-12' PAINTED AC; 0-32' PAINTED AC (14' GRS (RAISED))

Median Barriers:

Shoulder: Width and Type: 0; 0; 0 (2' AC)

Pavement: Width and Type: 12' AC; 12' AC; 24' AC

Shoulder: Width and Type: 10' AC; 10' AC; 10' AC (6' AC BIKE LANE)

Number of Traffic Lanes: 2-12'; 4-12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 12' ACCEL. LANE

(Right Side)

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left)

Curb and/or Gutter: Type (Right and Left): (ALL 12' TLs); C. G.; C. & G.

Protective Devices: Type, Location and Number: ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED

Illumination: Type, Location and Number: 4 LPS - LOW PRESSURE SODIUM

Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.85) E(13.85-28.62) F(<28.62): A

Superelevation (Range)

Grades Class: +/- % (A(0-.45) B(.45-2.45) C(2.45-4.45) D(4.45-6.45) E(6.45-8.45) F(<8.45): B; C; B; C; B

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: SMALL URBAN (99998)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)

Speed: 1–Design, 2–Posted: 45 MPH (2); 35 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 11975; B71 0011 12038; P71 0000 00059

HPMS Sections – AADT 2017: 25,300; 24,700; 25,100

HPMS Sections – AADT 2016: 22,900; 25,800; 24,900

HPMS Sections – AADT 2015: 27,000; 25,900; 25,000

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (3)

National Highway System (NHS): ON NHS (1)

Previous Projects: Project No., Date and Limits: F-011-1(4), (NEW ALIGNMENT), 1984

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| Feb 2006, D.B. | |
| **Revised** | |
| 6/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY
# HAWAII RTE 19
## KUHIO ST., KALANIANAOLE ST., KAMEHAMEHA AVE., PAUAHI ST., BAY FRONT HWY, HAWAII BELT ROAD

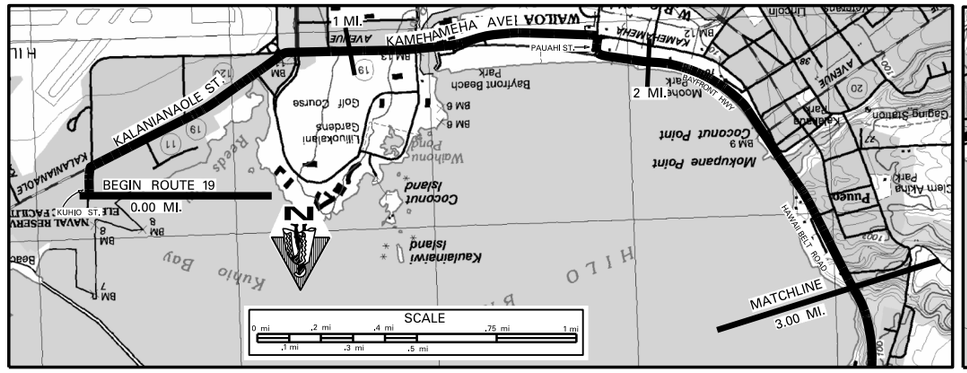
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

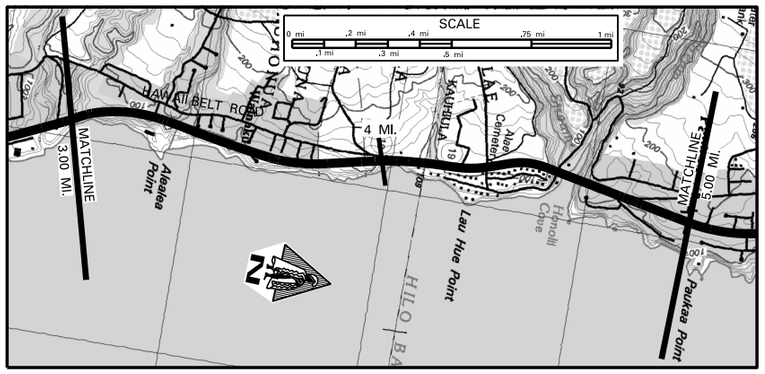
PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 99.526 miles
- a. Survey Length: 99.526 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*




SCALE: (In Miles) 4" = 1 mile

**Maintenance Control Sections : Length and Description**

END 19L SAME AS BEGIN RTE 19 — 19L (2.57 MI.) — END 19K AND BEGIN 19L AT N.W. END OF WAILUKU BR. (2.57) — 19K (1.63 MI.) — END 19J AND BEGIN 19K AT ALAE CEM. ACCESS RD. (4.20) — 19J (10.76 MI.)

**Structure Carrying Road**

- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: PRE-STRESSED CONC. GIRDER 1993, HS-20-44 (152') — STEEL MULTISTRINGER 1950, H20 (442') — TEE BEAM 1949, H20 (146') — CONCRETE TEE BEAM 1936 H15 (544')
- Vertical Clearance: 1.23 — 2.50 — 2.84 — 4.49
- Horizontal Clearance: 106' — 28' — 28' — 24'

**Structure Over Road**

- Vertical Clearance: 23'-02" — 18'-02"
- Horizontal Clearance: 3.09 57' — 5.20 44'

Right of Way Width (min.-max.) If varies: 2.29 — 75'-120' — 3.43 — 70'-261'

Available Right of Way Width (Needs Study)

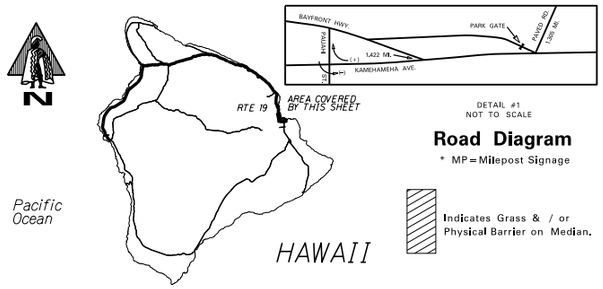
Right of Way Fence: Type - Right and Left

Control of Access: 1-None, 2-Partial, 3-Full: NONE (0.84) — PARTIAL (2.96) — NONE

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE (1.30) — COUNTY (1.83) — 76 + 50 — 39 + 50 — STATE

Project No., Type of Construction, and Year Constructed: (STP-019-2(32), (RESURFACE)) — (BR-F-019-2(27), 1993 BRIDGE REPLACEMENT) — (SDR 3(8), 1950) (2.07) — BR-019-2(50), 2009, OVERPASS REMOVAL (3.36) — (19J-01-97M, (R), 1999) (4.87)

Project No., Type of Construction, and Year Constructed: STP-0100(037), (IMPRV.), 1997 (0.75) — NH-019-2(54), (BIKEWAY IMPRV.), 2003 (1.48) (1.49) — STP-019-2(31), (R), 1995 (2.49) (2.56) — STP-019-2(34), (RESURFACE), 1998




DETAIL #1
NOT TO SCALE

**Road Diagram**

* MP = Milepost Signage

Indicates Grass & / or Physical Barrier on Median.

BEGIN ROUTE 19 ON KUHIO STREET AT THE ENTRANCE TO KUHIO WHARF.

0.00 mi. — KALANIANAOLE ST. & END DIV. HWY / BEGIN DIV. HWY — KUMAU ST. — KEAA ST. — PAVED ROAD — END DIV. HWY & BANYAN WAY — BEG. DIV. HWY — KAMEHAMEHA AVE. — KANIKANIOKALANI AVE (ANGELINA BANYAN DR. (R)) — KALANIKOA ST. — WAIKEA BRIDGE (WAIKEA MANONO ST. (L)) — PAVED ROAD — ONE WAY ROAD — ROAD FROM PARKING LOT — BISHOP ST. — BAYFRONT HWY. / PAUAHI ST. — END DIV. HWY — BEG. DIV. HWY — WAILUKU BR. END DIV. HWY / WAIANUENUE AVE. (FAU-C 1950) — PUKIHAE ST. — PUKIHAE BRIDGE — END DIV. HWY / HILO PLNT. RD. O.P. / HAP. CO. MILL RD. (R) / HILO PLNT. FLUME O.P. / BEG. DIV. HWY — SCENIC LOOKOUT — WAINAKU ST. — ALAE CEMETERY ENTRANCE — NAHALA ST. (R) / KAUHULA RD. (L) — HONOLII BRIDGE — KULANA ST. EXT. / PAUKAA DR. / BEG. DIV. HWY — END DIV. HWY — KAHOA PL.

SEE DETAIL #1 — 1.785 MI. — 2.473 MI. — 2.395 MI. — 0 MP — 1 MP (0.788) — 3 MP — 5 MP 8 KM

(KUHIO ST.) — KALANIANAOLE ST. — KAMEHAMEHA AVE. — (PAUAHI ST.) — BAY FRONT HWY — HAWAII BELT ROAD

0.103 MI. 0.093 MI. 0.085 MI. 0.305 MI. — 0.284 MI. — 0.341 MI. — 0.425 MI. — 0.622 MI. — 0.692 MI. — 0.776 MI. — 0.836 MI. — 0.935 MI. — 1.057 MI. — 1.229 MI. 1.256 MI. — 1.306 MI. — 1.422 MI. — 1.537 MI. — 1.660 MI. — 1.770 MI. — 1.820 MI. — 2.003 MI. — 2.325 MI. — 2.521 MI. — 2.494 MI. — 2.443 MI. — 2.783 MI. — 2.741 MI. — 2.877 MI. — 3.084 MI. — 3.136 MI. — 3.178 MI. — 3.251 MI. — 3.303 MI. — 3.369 MI. — 3.573 MI. — 4.084 MI. — 4.229 MI. — 4.316 MI. — 4.533 MI. — 4.739 MI. — 4.780 MI. — 4.815 MI. — 4.717 MI. — 4.896 MI. — 4.976 MI.

CONTINUED ON SHEET #2 — 5.00 MI.

SCALE: (In Miles) 4" = 1 mile

**Divided Highway — Undivided**

- Shoulder: Width and Type: (6' GRS.) — 25' GRASS — (4'-6" AC) — 6'-15' GRASS — 5' AC SHLDR. / BIKELANE — 2'-4' AC — 8'-20' AC — 0'-1' AC — 8' AC — (0'-1' AC) — 4' AC — 8' AC — (6' AC)
- Pavement: Width and Type (ALL PAVEMENT AC): (16') — 28' — 45' — 24' AC — 28' AC — 12' AC — 32' AC (20' AC) — 24' — (38') — 27' — 24' (22' AC) — 12' AC — 24' AC
- Shoulder: Width and Type: (6'-8' GRASS) — 8'-12' GRS. — 16' AC — 5' AC SHLDR. / BIKELANE — 0 — 1' AC — 8' AC — 4' AC — 6' AC
- Median: Width and Type: (32' GRV.) — (0'-12' PAINT) — 0'-20' PAINTED AC — 0'-20' RAISED GRASS — (0'-14' PAINTED AC) — 2'-12' RSD GRSS — (0'-6' PAINTED AC) — (0'-19' PAINTED AC) — (2'-15' AC CURB) — 0'-12' PAINTED AC
- Median Barriers: (0'-9' PAINT)

**Divided Highway — Divided**

- Shoulder: Width and Type: 0 — 1' AC
- Pavement: Width and Type (ALL PAVEMENT AC): (15') — 12' — 22' AC — 11' AC — 20' AC — 20' AC — 16' AC — 26' — 12' AC
- Shoulder: Width and Type: (8'-16' AC) — 5' AC SHLDR. / BIKELANE — 8' AC — 0'-1' AC — 2' AC — 8' AC — 4' AC — 8' AC

Number of Traffic Lanes: (2-14') — 2-14' — 2-12' — 2-12' — 2-12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 11' TL — 12' T.L. — 2-12' TLs — 12' TL — 10' T.Ls — 11' TL — 12' ACC. LN.

(Right Side): 12' TL — 10' T.L. — 12' T.L. — 11' TL — 12' TL

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left): 8' C. SW — 7' C. SW — 7' CONC. SW — 4' C. SW — 8' C. SW — 5' C. SW — 4' C. SW — 3' C. SW — 4' C. SW

Curb and/or Gutter: Type (Right and Left): C. & G. — AC C. — C. & G. — CONC. CURB — AC C.

Protective Devices: Type, Location and Number (ALL METAL ON METAL (UNLESS NOTED OTHERWISE)): METAL RAIL — WOOD ON WOOD — K-RAIL

Illumination: Type, Location and Number

Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.85) E(13.85-28.62) F(< 28.62): A — E — B C — A — B — A — FAF — AB — A — B — A

Superelevation (Range)

Grades Class: +/- % (A(0-.45) B(.45-2.45) C(2.45-4.45) D(4.45-6.45) E(6.45-8.45) F(< 8.45): B — A — A — B — A — B — C — A

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: SMALL URBAN (99998) — RURAL (99999)

Terrain: 1-Flat, 2-Rolling, 3-Mountainous: FLAT (1) — ROLLING (2)

Speed: 1-Design, 2-Posted: 25 MPH (2) — 35 MPH (2) — 45 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing: 3 PHASE

Traffic Stations (Current Year): B71 0019 00000 — B71 0019 00029 — B71 0019 00093 — B71 0019 00166 — B71 0019 00183 — B71 0019 00245 — B71 0019 00612

HPMS Sections - AADT 2017: 2,200 — 16,100 — 17,100 — 22,725 — 10,700 — 16,600 — 12,900

HPMS Sections - AADT 2016: 7,900 — 14,200 — 17,200 — 22,500 — 10,200 — 14,800 — 11,000

HPMS Sections - AADT 2015: 1,300 — 2,900 — 9,900 — 10,700 — 21,600 — 8,400 — 12,600 — 11,000

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (3)

National Highway System (NHS): ON NHS (1)

Previous Projects: Project No., Date and Limits

- 0.76 STP-019-2(32), (R), 1998 — 1.07
- 1.00 BR-F-019-2(27), (BR, REPLACEMENT), 1993 — 1.49
- STP-0100(037), (IMPRV.), 1997 — 0.76 — 0.81 — 19L-01-82M, (R), 1982
- 0.15-(19L-01-82M, (R), 1982) — 1.31 — 19L-01-79M, (R), 1979 — 19K-01-85M, (RESURFACE), 1985 — 4.60 — 19J-02-88M, (R), 1988
- SDR-2(2), 1951 — (SDR 3(8), 1950)—2.49 — 132 + 42 — 19 K-01-72, (R), 1972 — 3.32 — 19JK-01-70 (RESURFACE & REHAB) 1971
- COUNTY TO STATE (PHASE 1) — 1.42 — 60 + 00 — 0 + 00 — 2.57 — 86 + 64 — SDR 3(1), 1948 — 4.65 — SDR-3(4), 1950

SCALE: (In Miles) 4" = 1 mile

| Date Released | |
|---|---|
| Feb 2006, D.B. | |
| **Revised** | |
| 6/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

ROAD INVENTORY

# HAWAII RTE 19
# HAWAII BELT ROAD

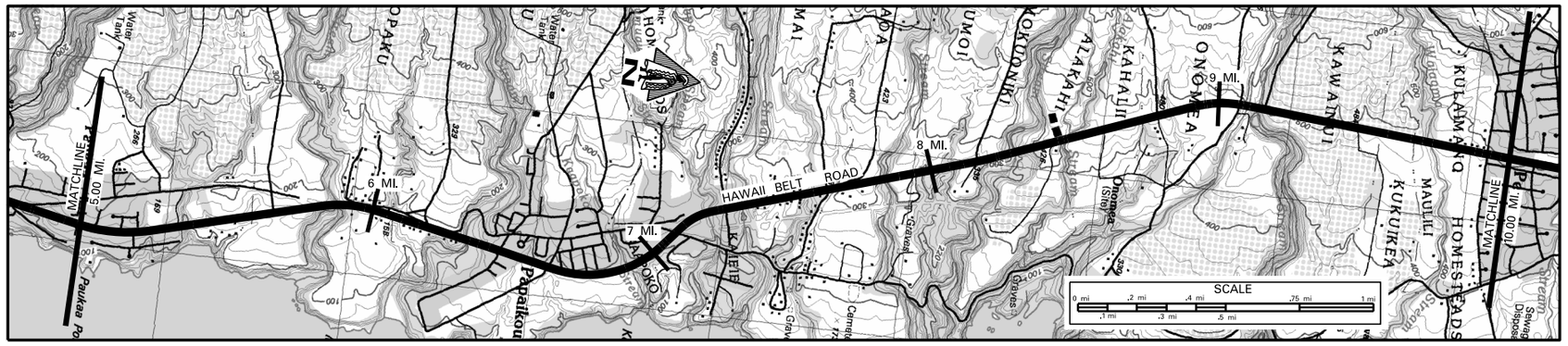
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 99.526 miles
- a. Survey Length: 99.526 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*




SCALE: (In Miles) 4" = 1 mile

**Maintenance Control Sections : Length and Description**
19J (10.76 MI.)

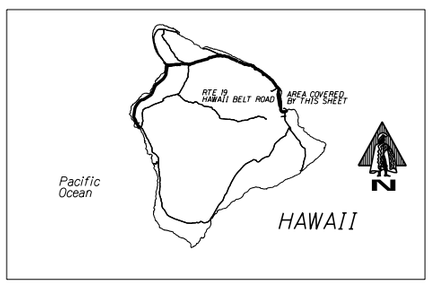
**Structure Carrying Road**

| | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|
| Bridges (Over 20'): Length, Type, Capacity and Year Constructed | CONC. MASONRY ARCH HS–20, 1912, (1967) 49' | STEEL GIRDER & FLOOR BEAM H–20, 1950 415' | PRESTRESSED BEAM HS–20, 1967 210' | PRESTRESSED BEAM HS–20, 1967 145' | PRESTRESSED BEAM HS–20, 1968 424' | STEEL GIRDER & FLOOR BEAM H–20, 1948 71' | PRESTRESSED BEAM 1968, HS–20 198' |
| Vertical Clearance | 5.82 | 6.27 | 7.29 | 7.77 | 8.20 | 9.08 | 9.66 |
| Horizontal Clearance | 24' | 28' | 28' | 28' | 28' | 24' | 28' |

**Structure Over Road**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Vertical Clearance | | | 15' 11" | | | | |
| Horizontal Clearance | | | 7.04 42' | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Right of Way Width (min.–max.) If varies | 70'–261' 5.14 | 70'–125' 5.53 | 100'–250' | 7.90 | 80'–135' | | |
| Available Right of Way Width (Needs Study) | | | | | | | (SUGAR CANE)— 9.08 9.66 RESIDENTIAL |
| Right of Way Fence: Type – Right and Left | | | | | | | |
| Control of Access: 1–None, 2–Partial, 3–Full | | | NONE | | | | |
| Jurisdiction, Transfer Phase No. and Date (C to S or S to C) | | 82 + 50 6.20 | STATE | | | | .734 |
| Project No., Type of Construction, and Year Constructed | | | 19J–01–10,SAFETY IMPROV.,2015 | 7.31 | | | NH–019–2(067) RESURFACING 2017 |
| Project No., Type of Construction, and Year Constructed | | 19J–01–97M, (R), 1999 | 7.08 | 55 + 00 | STP–019–2(35), (RESURFACE), 1997 | | 144 + 50 |




**Road Diagram**
* MP = Milepost Signage

CONTINUED FROM SHEET #1 — 5.00 MI.

KUKAHI ROAD NANEA ROAD — HIKINA PLACE LALI PLACE — KULANA ST. — PAHOEHOE BR. (6 MP) — KAPUE RD. ROAD TO PUUEOPAKU — KAPUE BRIDGE — MILL RD. — KOPULIMAI RD.(R) PAPAIKOU RD(L) — (7 MP) — OLD MAMALAHOA HWY — KAEIE BRIDGE KAEIE RD. — KALAOA CAMP RD. — PUUMOI RD. — KALAOA BRIDGE (8 MP) — TELEM. STAT. 17J HANAWI ST. — INDIAN TREE RD. — HANAWI BRIDGE — ALAKAHI PL. — KAHALII PL. (9 MP) — CINDER HILL RD. KAWAINUI BRIDGE OLD ONOMEA RD.(R) ONOHI P.(L) — OLD MAMALAHOA HWY — BEGIN DIV. HWY WAIAMA BRIDGE — KULAIMANO RD. STA. 153 + 75 (9 MP) — CONTINUED ON SHEET #3 10.00 MI.

HAWAII BELT ROAD

| | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5.170 MI. | 5.651 MI. | 5.864 MI. | 6.040 MI. | 6.106 MI. | 6.298 MI. | 6.439 MI. | 6.606 MI. | 6.776 MI. | 7.091 MI. | 7.319 MI. | 7.629 MI. | 7.688 MI. | 7.807 MI. | 8.047 MI. | 8.137 MI. | 8.235 MI. | 8.429 MI. | 8.587 MI. | 8.764 MI. | 9.142 MI. | 9.053 MI. | 9.465 MI. | 9.764 MI. | 9.910 MI. |
| 5.127 MI. | | | | | | | | | | 7.280 MI. | | | 7.773 MI. | 8.017 MI. | | | | | | 9.109 MI. | | | 9.744 MI. | |
| | | | | | | | | | | | | | | | | | | | | | | | | 9.692 MI. | |

**Divided Highway**

| | 5 | 6 | 7 | 8 | 9 | 10 |
|---|---|---|---|---|---|---|
| **Undivided** | | | | | | |
| Shoulder: Width and Type | 6' AC 5.25 5' AC 5.34 6' AC 5.47 | 5'–10' AC 6.46 | 6' AC 6.67 5'–8' AC | 8'–14' GRASS/GRAVEL | 8.04 4' AC 8.41 8'–18' GRAVEL | 8.92 4' AC 9.04 6' GRS (6' GRV.) 9.17 11'–19' GRAVEL 9.54 3' AC | 15'–25' AC/GRV. 9.65 6' AC 9.88 (2'–4' AC) |
| Pavement: Width and Type | | 24' AC | 7.08 7.17 4 7.22 7.29 | 22' AC | 8.31 35' AC 8.88 | 22' AC 9.40 | 12' AC |
| Shoulder: Width and Type | 6' AC | 6.08 5' AC 6.18 6' AC | 5' AC 5' AC | 8'–12' GRASS/GRAVEL | 8.21 4'–6' AC 8.45 6'–15' GRAVEL | 9.08 6' GRS 9.17 18'–23' GRAVEL 9.54 3' AC 9.60 12' AC | 0 |
| **Divided** | | | | | | | |
| Median: Width and Type | | | 7.390 MILLED CL RUMBLE STRIP (8'–10' GRASS) 7.692 | | | 10'–15' AC/GRV 9.44 | (0'–12' PAINTED MEDIAN) |
| Median Barriers: | | | | | | | |
| Shoulder: Width and Type | | | | | | | 0 |
| Pavement: Width and Type | | | | | | | 12' AC |
| Shoulder: Width and Type | | | | | | | 6' AC 9.92 (8'–18' GRAVEL) |

| | | | | | | |
|---|---|---|---|---|---|---|
| Number of Traffic Lanes | | 2–12' | 7.08 2–11' | 8.31 2–11' 8.88 | 2–11' | 2–12' |
| Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) | | | | | | (10' TL) 9.67 |
| (Right Side) | | | | .328 1–33' TRUCK CLIMBING LANE .969 | | .807 9.80 |
| Frontage Road: No. of Lanes, and Width (Right and Left) | | | | | | |
| Sidewalk: Width and Type (Right and Left) | | | 4' C, SW .299 .384 .446 .476 6' AC SW; 4' C, SW .299 .383 | (.316, C,C,, .362) .316 .362 4' C, SW; (.316, C,C,, .362) .316 .361 2' C, SW | 2' C, SW .804 .837; 2' C, SW .804 .837 | .109 .125 3' C, SW .689 .732 2' C, SW; .108 .125 3' C, SW .690 .732 2' C, SW |
| Curb and/or Gutter: Type (Right and Left) | | | C, C, .299 .383 .404 .471 QWICK KURB SYSTEM; C, C, .299 .383 .404 .471 | .239 .302 .309 .405 .442 .484 .547 .594 .682 .793 | 2' C, SW .804 .837; 2' C, SW .804 .837; C, C, .804 .837; C, C, .804 .837 | .109 .125 3' C, SW .689 .732 C, C.; .108, C, C,, .125) .690 .732 C, C. |
| Protective Devices: Type, Location and Number ALL METAL ON METAL (UNLESS NOTED OTHERWISE) | .000 .170 .225 .236 .239 .388 .396 .557 .602 .609 .889 .895 .095 .096 .101 .390 .390 .397 .497 .531 .586 .651 .853 .896 .197 .239 .302 .309 .405 .442 .484 .547 .579 .594 .682 .793 .804 .837 .845 .890 .892 .900 .990 .220 .221 .315 .330 .335 .429 .477 .487 .598 .652 .699 .734 .747 .802 .806 .895 .897 .001 .240 .071 .124 .123 .248 .226 .358 .561 .558 .674 .678 .689 .730 .732 .824 .485 .500 .690 .732 C, C. | | | | | |
| Illumination: Type, Location and Number | | | | | | ? Low Pressure Sodium |
| Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) | | A | 7.12 B 7.26 | | A | .095 |
| Superelevation (Range) | | | | | | |
| Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) | A 5.32 B 5.70 A 5.98 B 6.06 A 6.32 | B | 7.33 C 7.72 B 7.78 | C | 8.46 D 8.55 C 8.74 | B |
| Vertical Curve: Crest or Sag, Curve Limits | | | | | | |
| Area and Development: | | | RURAL (99999) | | | |
| Terrain: 1–Flat, 2–Rolling, 3–Mountainous | | | ROLLING (2) .650 | | | |
| Speed: 1–Design, 2–Posted | | 45 MPH (2) | | | 55 MPH (2), MINIMUM 40 MPH | |
| Intersection Control Devices: Type, Location and Cycle Timing | | | FLASHING WARNING LIGHTS .999 .227 .648 | | | |
| Traffic Stations (Current Year) | B71 0019 00612 | | | P71 0000 0017J | | (B71 0019 00992) |
| HPMS Sections – AADT 2017 | 12,900 | | | 10,400 | | (9,200) |
| HPMS Sections – AADT 2016 | 11,000 | 6.45 | | 10,100 | | (8,500) |
| HPMS Sections – AADT 2015 | 11,000 | | | 9,800 | | 9.92 (6,700) |
| DOD Sections | | | | | | |
| Census Tracts | | | | | | |
| Functional Classification | | | PRINCIPAL ARTERIAL (3) | | | |
| National Highway System (NHS) | | | ON NHS (1) | | | |
| Previous Projects: Project No., Date and Limits | | | | | | 9.98 |
| | | | (19HJ–02–95M, (BRIDGE REPAIR), 1996) | | | 144 + 40 9.70 (19J–01–02 IMP 2005) |
| | | 6.27 | 7.29 | 7.77 | 8.20 | 159 + 00 |
| | | 19J–02–88M, (R), 1988 | 7.08 | 19J–01–85M, (R), 1985 | | 9.12 9.16 19J–01–85M, (R), 1985 9.65 19J–03–85M, (R) 1985 |
| | 19 JK–01–70, (RESURF, & REHAB), 1971 | 6.35 | 19GHJ–01–78M, PMS–0100(11), UNIT 2, RESURFACE 1978 | 7.78 7.81 | 8.21 8.29 19J–02–75, UNIT I, TRUCK CLIMBING LANE, 1979 | 9.04 9.11 19GHJ–01–76, (R), 1976 9.88 |
| | SDR–3(4), 1950 | 6.97 125 + 03.70 | 0 + 00 | (F–019–2(8), 1968) | F–AF 14B(1), 1949 | (19GHJ–01–76M, (R), 1976) |

SCALE: (In Miles) 4" = 1 mile

| Date Released |
|---|
| Feb 2006, D.B. |

| Revised | |
|---|---|
| 5/06 | G.N. |
| 12/09 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

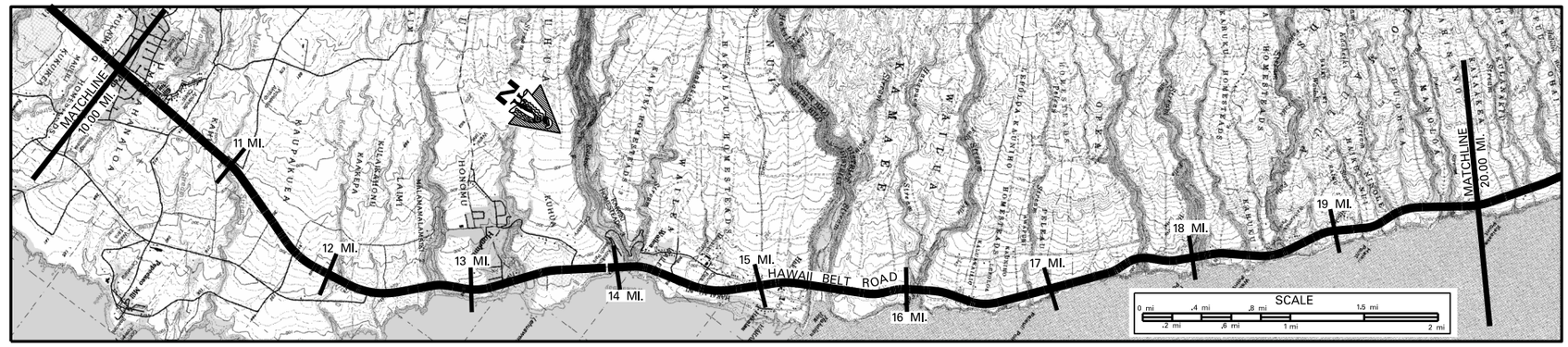
# ROAD INVENTORY
# HAWAII RTE 19
# HAWAII BELT ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 99.526 miles
**a. Survey Length:** 99.526 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 19J (10.76 MI.); END 19H – BEGIN 19J AT THE CENTERLINE OF HAKALAU ROAD; 19H (14.26 MI.)

**Structure Carrying Road**

Bridges (Over 20'): Length, Type, Capacity and Year Constructed: STEEL MULTI-STRINGER 195, H-20 (225'); STEEL GIRDER AND FLOORBEAM 1950, H-20 (497'); STEEL MULTI-STRINGER: H-20, 1953 (775'); H-20, 1952 (281'); H-20, 1952 (225'); H-20, 1952 (531'); HS-20, 1952 (297'); TEE BEAM 34'; H-20, 1951 112'; TEE BEAM 1951, H-20 50'; H-15, 1934

Vertical Clearance

Horizontal Clearance: 28' / 28' / 28' / 28' / 28' / 28' / 28' / 24' / 28' / 28'

**Structure Over Road**

Vertical Clearance: 16'-04"; 16'-03"; 25'-08"

Horizontal Clearance: 42' / 42' / 38'

Right of Way Width (min.-max.) If varies: 80'-135'; 100'-430'; 100'-230'; 85'-225'; 90'-200'; (70'-160')

Available Right of Way Width (Needs Study): (RESIDENTIAL); CLEAR 1000' – SUGAR CANE 10'-20' FROM PAVEMENT; LARGE TREES & HEAVY BRUSH; RESIDENTIAL; LARGE TREES; (BRUSH AND LARGE TREES)

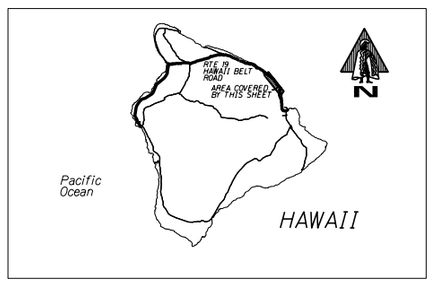
Right of Way Fence: Type – Right and Left

Control of Access: 1–None, 2–Partial, 3–Full: NONE

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE

Project No., Type of Construction, and Year Constructed: (19J-02-85, TRUCK, CLIMB LN., 1987); NH-019-2(067) RESURFACE 2017; (19H-01-70, (R), 1971); (NH-019-1(37), GRD RAIL & SHLDR IMP., 2009)

Project No., Type of Construction, and Year Constructed: STP-019-2(35), RESURFACE, 1997; 19J-02-97M, RESURFACE, 2000; STP-019-2(36), (R), 1998; (19H-01-00M, REALIGNMENT, 2002); STP-019-2(36), (R), 1998




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**
* MP = Milepost Signage

CONTINUED FROM SHEET #2 — 10.00 MI.

KA'AKEPA ST. (10.5 MP); END DIV. HWY (10.332 MI.); SUGAR MILL RD. (R) KAUPAKUEA HOME STD. ROAD (L) (10.245 MI.); OLD HWY MAMALAHOA (10.175 MI.); PEPEEKEO PLANTATION O.P. (10.560 MI.); ROADS (10.767 MI.); PAVED ROAD (10.933 MI.); PAVED ROAD (11.268 MI.); PAVED ROAD (11.441 MI.); END DIVIDED HWY (11.689 MI.); BEG. DIVIDED HWY (11.812 MI.); PAVED ROAD (11.875 MI.); PAVED ROAD (11.705 MI.); PAVED ROAD (12.169 MI.); PAHEHEE BRIDGE (12.464 MI.); HONOMU TO AKAKA FALLS, RTE 220 (12.768 MI.); HONOMU SOLID WASTE TRANSFER STA. (13.328 MI.); KOLEKOLE BRIDGE RD. TO KOLEKOLE BEACH PARK (13.272 MI.); CULVERT (13.775 MI.); ROAD (13.686 MI.); ROAD (13.983 MI.); CULVERT (13.977 MI.); PAU O CHAKALAU (R) CHIN. CHUCK (L) PEDESTRIAN O.P. (14.380 MI.); HAKALAU BRIDGE (14.338 MI.); HAKALAU STATION O.P. (14.221 MI.); CULVERT (14.560 MI.); DISTRICT OF HILO (-) DISTRICT OF HILO (-) SIGNS (14.767 MI.); DISTRICT OF HILO (-) (14.974 MI.); DISTRICT OF HILO (-) (14.951 MI.); LEOPOLINO RD. (15.320 MI.); UMAUMA BRIDGE (15.467 MI.); KAUNIHO ROAD (15.807 MI.); OPEA BRIDGE (16.036 MI.); NANUE BRIDGE (16.445 MI.); PAVED ROAD (16.764 MI.); PAVED ROAD (17.625 MI.); WAIKAUMALO BR. (17.764 MI.); HANAMALO LN. OLD MAMALAHOA HWY (ROAD TO PARK) (18.002 MI.); WAIKOLU BRIDGE (18.386 MI.); NINOLE BRIDGE (18.587 MI.); PAVED ROAD (19.173 MI.); MANOLOA BR. ROAD (19.415 MI.); (19.538 MI.); (19.868 MI.) — 20.00 MI.

HAWAII BELT ROAD

CONTINUED ON SHEET #4

SCALE: (In Miles) 2" = 1 mile

**Divided Highway — Undivided**

Shoulder: Width and Type: (2'-4' AC); 15' GRV.; (7' GRV.) 2'-6' AC; 6'-12' GRV.; 5'-8' AC; 7' AC; 4'-6' DIRT; 5' AC; 6' AC

Pavement: Width and Type: 12' AC; 22' AC; 28' AC; 24' AC; 36' AC; 12' AC; 24' AC

Shoulder: Width and Type: 0; 8'-18' GRV.; 4'-15' GRASS; 5'-12' GRS.; 7' AC; 0; 6' AC

Median: Width and Type: 0'-12' PAINTED MEDIAN; (0'-7' PAINT); 1.464

Median Barriers:

Shoulder: Width and Type: 0; 0

Pavement: Width and Type: 12' AC; 12' AC

Shoulder: Width and Type: 8'-18' GRV.; 7' AC

Number of Traffic Lanes: 2-12'; 2-11'; 2-14'; 2-12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side); (Right Side): TRUCK CLIMBING LANE – 12'

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left): 3' C, SW; 4' C, SW; 3' C, C.&G.; C, C.

Curb and/or Gutter: Type (Right and Left): AC G.; C, C.&G.; C, C.

Protective Devices: Type, Location and Number — ALL METAL ON METAL (UNLESS NOTED OTHERWISE)

Illumination: Type, Location and Number

Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.85) E(13.85-28.62) F(<28.62)

Superelevation (Range)

Grades Class: +/- % (A(0-.45) B(.45-2.45) C(2.45-4.45) D(4.45-6.45) E(6.45-8.45) F(<8.45)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)

Speed: 1–Design, 2–Posted: 55 MPH (2) – MINIMUM 40 MPH; (45 MPH (2) (40 MPH MINIMUM)); 45 MPH (2); 55 MPH (2); (55 MPH (2) (40 MPH MIN.))

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0019 00992; B71 0019 03987; B71 0019 04252

HPMS Sections – AADT 2017: 9,200; 7,150

HPMS Sections – AADT 2016: 8,500; 6,600

HPMS Sections – AADT 2015: 6,700; 7,000

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (3)

National Highway System (NHS): ON NHS (1)

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| Feb 2006 | D.B. |
| **Revised** | |
| 6/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

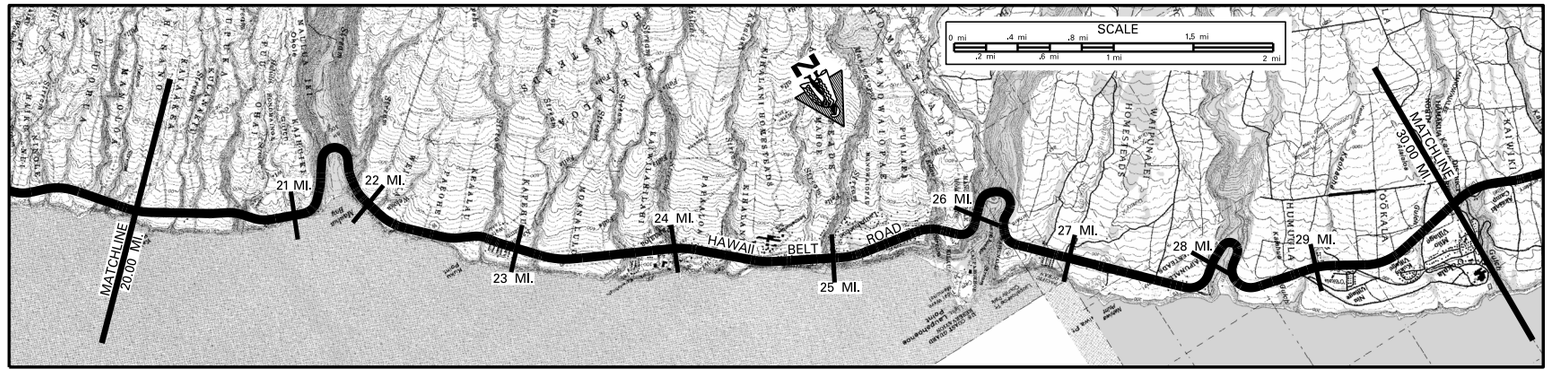
# ROAD INVENTORY
# HAWAII RTE 19
# HAWAII BELT ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 99.526 miles
**a. Survey Length:** 99.526 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 19H (14.26 MILES); END 19G – BEG 19H AT THE CENTERLINE OF OOKALA ACCESS ROAD; 19G (12.57)

**Structure Carrying Road**

Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- TEE BEAM 1934, H=15 — 137'
- CONC. FRAME 1953 HS=20 — 65'
- STEEL MULTI STRINGER 1953, HS=20 — 280'
- TEE BEAM 1933, H=15 — 131', 133'
- TEE BEAM 1956, HS=20 — 246', 219'
- CONC. BOX GIRDER, HS=20 — 331' (1956), 194', 234' (1957)
- TEE BEAM, HS=20, 1953 — 225'
- STEEL MULTI STRINGER, 1957, HS=20

Vertical Clearance

Horizontal Clearance: 22', 32', 30', 22', 22', 28', 28', 28', 28', 28', 28'

**Structure Over Road**

Vertical Clearance: 16'–4"

Horizontal Clearance: 40' (BUSHES, TREES, CANEFIELD)

Right of Way Width (min.–max.) If varies: 70' – 160'; 100' – 220'; 50'; 100' – 215'; 100'; 100' – 150'; 95' – 165'; 100' – 140'

Available Right of Way Width (Needs Study): BRUSH AND LARGE TREES; 1000' CLEAR SUGAR CANE 20' FROM PAVEMENT; RESIDENTIAL AREA; LARGER TREES AND CUT SLOPES; BRUSH; 1000' CLEAR – SUGAR CANE 20' FROM PAVEMENT

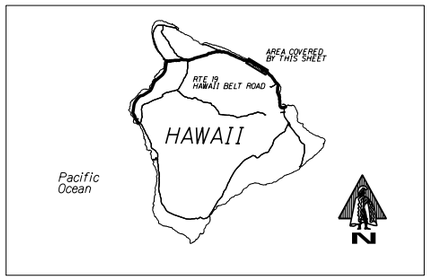
Right of Way Fence: Type – Right and Left: (WIRE ON WOOD, 20' FROM PAVEMENT (L) & (R))

Control of Access: 1–None, 2–Partial, 3–Full: NONE; WIRE MESH ROCKFALL PROTECTION

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE; 19H–01–82M, 1982; (19HJ–02–95M (BRIDGE REPAIRS) 1996)

Project No., Type of Construction, and Year Constructed: STP–019–2(33); STP–019–1(30) RESURFACE; STP–019–2(33); 19H–01–99M RESURFACE; STP–019–2(37) RESURFACE

Project No., Type of Construction, and Year Constructed: 1998 RESURF; 1997 (R); 1995; 1997 (R); 2000; 1997




**Road Diagram**
* MP = Milepost Signage

CONTINUED FROM SHEET #3

ROAD; AHOLE BR.; POHAKUPUKA BR.; PAVED RD.; MAULUA BR.; KAPEHU BR.; KAALAU ST.; KAPEHU RD.; KEAALAU BR.; MOANALULU BR.; MAMALAHOA HWY.; PAPA'ALOA AVE.; KAWILIHA'AHI BR.; KIHALANI ST.; KIHALANI BR.; KIHALANI PED. O.P.; OLD MAMALAHOA HWY (TO LAPAHOEHOE SCHOOL); KUWAIKAHI BR.; MANOWAIOPAE BR.; OLD MAMALAHOA HWY (L); HALEKI'I PL.; EVTR. FROM "SCENIC PT."; EVTR. TO "SCENIC PT."; MANOWAIOPAE RD.; HMSTD. RD.; OLD MAMALAHOA HWY (R); ROAD TO POWER SUB-STATION; KILAU BR.; JAIONE RD.; RD. TO LAPAHOEHOE PT.; PAVED ROAD; OLD MAMALAHOA HWY; STEVENS RD.; IGNACIO PL.; ROAD; MOONLIGHT RD.; OOKALA ACCESS RD. (L),409&(R),410; OOKALA ACCESS RD. (L),409&(R),410 PAVED ROAD; TRACTOR CROSSING; OOKALA GRAVEYARD RD.(R); OOKALA RD.(L); ELEV. 500'/152m (L),409&(R),410

MP: 21, 22, 23, 67 KM, 24, 25, 26, 27, 28, 29, 30

HAWAII BELT ROAD

20.172 MI., 20.359 MI., 20.670 MI., 20.759 MI., 20.849 MI., 21.520 MI., 21.759 MI., 22.755 MI., 22.788 MI., 22.884 MI., 22.931 MI., 23.099 MI., 23.660 MI., 23.758 MI., 23.758 MI., 24.040 MI., 24.207 MI., 24.305 MI., 24.485 MI., 24.755 MI., 24.772 MI., 24.937 MI., 25.101 MI., 25.202 MI., 25.255 MI., 25.281 MI., 25.636 MI., 25.761 MI., 25.783 MI., 26.744 MI., 26.755 MI., 26.809 MI., 26.833 MI., 27.214 MI., 27.551 MI., 27.736 MI., 27.751 MI., 28.594 MI., 28.754 MI., 28.855 MI., 29.142 MI., 29.214 MI., 29.382 MI., 29.710 MI., 29.773 MI.

CONTINUED ON SHEET #5

SCALE: (In Miles) 2" = 1 mile

**Divided Highway — Undivided**

Shoulder: Width and Type: 6' AC; 2'–10' GRS/GRV; (6'–12' AC); (1'–5' GRV.); 4'–8' AC; 7'–30' GRS.; 5' AC; 5'–7' AC; 6'–8' GRASS; 4'–8' AC; 24' AC; (6' GRS.); 2'–4' AC; 4' AC; 4'–7' AC; 4' AC; 3' AC; 4' AC; 4'–6' AC; 4' AC; 5'–10' AC; 4' AC

Pavement: Width and Type

Shoulder: Width and Type: 6' AC; 8' GRASS; 3' AC; 5' AC; 4'–6' AC; 5' AC; 15'–20' GRS.; (5'–13' AC); (10'–24' GRS); 6'–10' GRASS; (6' AC); (4'–8' GRS.); (2'–6' AC); 6'–10' GRASS; 4'–6' AC; 4' AC; (6' GRS.); 4'–6' AC; 4' AC; (4'–6' AC); 4' AC; 6' AC; 4' AC; 6' AC; 4' AC; 6' AC; (4' AC)

Median: Width and Type

Median Barriers:

Shoulder: Width and Type

Pavement: Width and Type

Shoulder: Width and Type

Number of Traffic Lanes: 2–12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 1–12' TRUCK CLIMB LANE; 1–12' TRUCK CLIMB LANE

(Right Side): 1–12' TRUCK CLIMB LANE; 1–12' TRUCK CLIMB LANE

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left)

Curb and/or Gutter: Type (Right and Left)

Protective Devices: Type, Location and Number — ALL METAL ON METAL (UNLESS NOTED OTHERWISE)

Illumination: Type, Location and Number

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2); MOUNTAINOUS (3); ROLLING (2); MOUNTAINOUS (3); ROLLING (2); MOUNTAINOUS (3); ROLLING (2)

Speed: 1–Design, 2–Posted: 55 MPH (2); 55 MPH (2) – MINIMUM 40 MPH; 45 MPH (2); 55 MPH (2) – MINIMUM 40 MPH

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0019, 03987; B71 0019 04252

HPMS Sections AADT 2017: 7,150

HPMS Sections AADT 2016: 6,600

HPMS Sections AADT 2015: 7,000

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (3)

National Highway System (NHS): ON NHS (1)

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| Feb 2006, D.B. |

| Revised | |
|---|---|
| 6/06 | D.B. |
| 12/09 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY
# HAWAII RTE 19
# HAWAII BELT ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 99.526 miles
**a. Survey Length:** 99.526 miles
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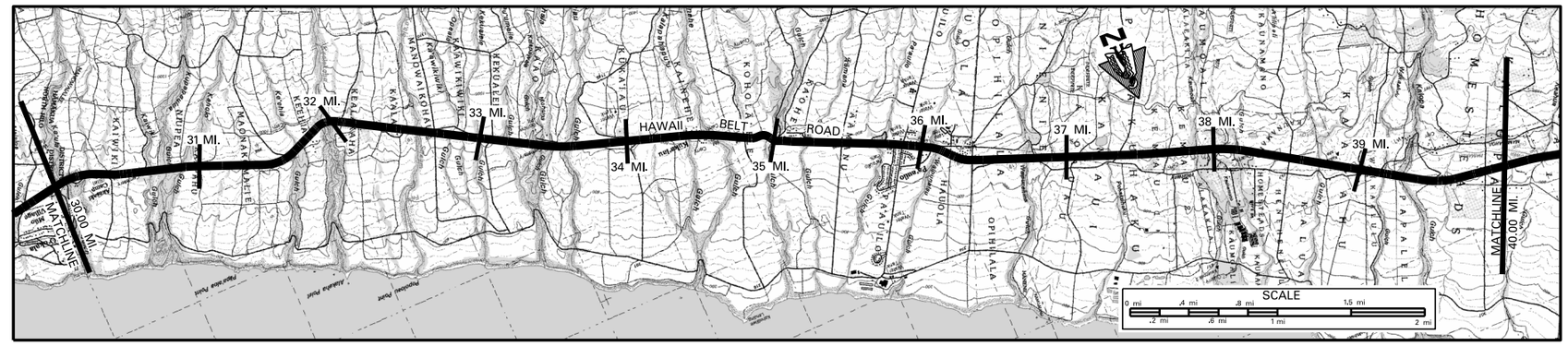
*




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

(UPGRADE HEADWALLS & DECK, 2007) 19G (12.57 MILES)

**Structure Carrying Road**

Bridges (Over 20'): Length, Type, Capacity and Year Constructed

CONC. BOX GIRDER 1959, HS=20 | CONC. MASONRY ARCH 1935, H=15 WIDENED IN 2005 HL=93 | TEE BEAM 1935, H=15 | POST TENSIONED CONC. BOX GIRDER 2009, HS=20+44 | TEE BEAM 1935, H=15 | STEEL MULTISTRINGER 1951, H=20 | PRESTRESSED CONC. GIRDER, 1985, HS=20 – 44 (BOTH BRIDGES) | PRESTRESSED PLANK, 2018 SEE PROJECT PLAN BR-N(13) | PRESTRESSED CONC. GIRDER 1982, HS=20-44 | PRESTRESSED T – BEAM 1981, HS=20-44 | CONC. BOX GIRDER 1959, HS=20 | TEE BEAM 1959, HS=20 | CONC. BOX GIRDER 1959, HS=20

Vertical Clearance

Horizontal Clearance

**Structure Over Road**

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.–max.) If varies: 100' – 140' | 70' – 95' | 100' – 200' | 70' – 100' | 100' – 150' | 100' – 270'

Available Right of Way Width (Needs Study): BUSHES, TREES, CANEFIELD | 1000' CLEAR, PASTURE GRASSLAND WITH SMALL TREES 20' FROM PAVEMENT

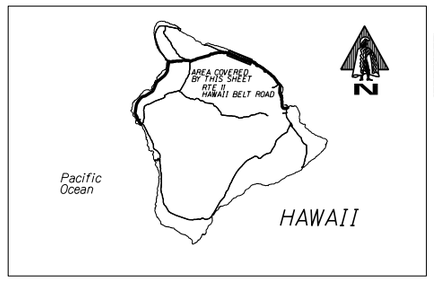
Right of Way Fence: Type – Right and Left: WIRE ON WOOD 20' FROM PAVEMENT LEFT AND RIGHT

Control of Access: 1–None, 2–Partial, 3–Full

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE

Project No., Type of Construction, and Year Constructed: (BR-019-2, BR, RPLCMT,, 2009) | (BRF-019-2(14), 1981) | (NH-019—1(37), GRD RAIL & SHLDR IMP., 2009)

Project No., Type of Construction, and Year Constructed: STP-019-2(37) RESURFACE 1997 | NH-019-2(55), (R), 2007 | 19G-01-99M RESURFACE 2000 | NH-019-1(39), Guardrail and Shoulder Imprv., 2013




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**
* MP = Milepost Signage

CONTINUE FROM SHEET #4

Kaula Bridge, Ookala Plant O.P., Old Mamalahoa Hwy, Kuapapaukua Bridge, Kahoto Bridge, Old Mamalahoa Hwy, Kahaila Pl, Nlupea Hmstds Rd, Nlupea Hmstds Rd, Keakakaha Bridge, Beg, End, Kaula Bridge, Kekuaiele Bridge, Culvert, Culvert, Mohuna Bridge, Kukaiau Bridge, Mauna Kea Ranch Rd, Paved Road, Kalapahapau Bridge, Old Mamalahoa Hwy, Kalhehe Bridge, Antone De Luz Rd, Kawaihi Bridge, Kaohe Pl, Aimanu Bridge, Paved Road, Power Sub-Station, East Paauilo Bridge, Paauilo Hui Rd, Paauilo Makai Rd. (R), Hauola Road, Hale Hookipa Pl, Mamalahoa Hwy, Paauilo Ped. Overpass, Pohakea Road, Plantation Road, Mamalahoa Hwy.(R), Hauola Rd.(L), Waipunahina Bridge, Kalopa Rd, Kaumoali Bridge, Kalopa Rd, Kalopa Road, Paved Road, Kalopa Bridge, Pauahilu Road, Kahaoiki Rd. (R), Kalopa Lower Rd

HAWAII BELT ROAD

31 MP, 32 MP, 33 MP, 34 MP, 35 MP, 36 MP, 37 MP, 38 MP, 38.5 MP, 39 MP, 39.5 MP, 40 MP

30.039 mi., 30.012 mi., 30.371 mi., 30.324 mi., 30.723 mi., 30.731 mi., 30.866 mi., 31.745 mi., 31.693 mi., 31.586 mi., 31.886 mi., 32.028 mi., 32.555 mi., 32.725 mi., 32.867 mi., 32.972 mi., 33.480 mi., 33.419 mi., 33.572 mi., 33.727 mi., 34.091 mi., 34.069 mi., 34.532 mi., 34.419 mi., 34.381 mi., 34.708 mi., 35.010 mi., 34.943 mi., 35.272 mi., 35.222 mi., 35.446 mi., 35.863 mi., 35.608 mi., 35.775 mi., 35.611 mi., 35.863 mi., 35.953 mi., 36.136 mi., 36.058 mi., 36.038 mi., 36.363 mi., 36.514 mi., 36.797 mi., 36.784 mi., 36.707 mi., 37.729 mi., 37.593 mi., 37.872 mi., 38.219 mi., 38.521 mi., 38.721 mi., 39.04 mi., 39.266 mi., 39.222 mi., 39.142 mi., 38.520 mi., 38.508 mi., 39.720 mi., 39.970 mi.

CONTINUE ON SHEET #6

SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**

Shoulder: Width and Type: 4' AC | 5' – 7' AC | 4' AC | 10' PCC | 4' AC | 8' AC | 6'–8' AC | 4' AC | 6' AC | 4' AC | 4' AC | 10'–12' AC | 4' AC | 6' – 18' AC | 4' AC

Pavement: Width and Type: 24' AC (6'–10' BP) 10' AC

Shoulder: Width and Type: 4' AC | 4' AC | 10' PCC | 4' AC | 8' AC | 6'–8' AC | 4' AC | 5' AC | 4' AC | 10'–30' AC | 4' AC | 8' – 14' AC | 4' AC

Median: Width and Type: 4' AC (8'–10' GRASS)

Median Barriers:

Shoulder: Width and Type

Pavement: Width and Type

Shoulder: Width and Type

Number of Traffic Lanes: 2 – 12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)

(Right Side)

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left)

Curb and/or Gutter: Type (Right and Left)

Protective Devices: Type, Location and Number — ALL METAL ON METAL (UNLESS NOTED OTHERWISE)

Illumination: Type, Location and Number

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): A | B | A | A

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): C | B | C | C | A | C | B | C | B | C | B | A | B | C | B | C | B | C | B | A | B | A | B | C

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)

Speed: 1–Design, 2–Posted: 55 MPH (2) – (MINIMUM 40 MPH) | 45 MPH (2) | 55 MPH (2) | 45 MPH (2) | 55 MPH (MIN. 40 MPH) (2) | 55 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0019 03987; B71 0019 04252

HPMS Sections – AADT 2017: 7,150

HPMS Sections – AADT 2016: 6,600

HPMS Sections – AADT 2015: 7,000 | (5,400)

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (3)

National Highway System (NHS): ON NHS (1)

Previous Projects: Project No., Date and Limits

STP-0100(31) GUARDRAIL IMPROVEMENTS 1994 | (19G-01-90M (R), 1990) | 19G-01-88M (R), 1988 | 19G-01-86M 1986 (R) | 19G-02-88M (R) 1988 | (19G-01-72, 1972) | (19GH-01-85M, 1985 (R)) | (19GHJ-01-78M, PMS-0100(11) 1978) | (19GHJ-01-78M, PMS-0100(11) 1978) (BRF-019-2(20), BR, REPLACEMENT) | (BRF-019-2(18), 1982) | (BRF-019-2(14) 1981) | (19GHJ-01-78M, PMS-0100(11) 1978) | 19GHJ-01-76M (R), 1976 | (19G-01-74 1974) | F-019-2(2) 1957 | SDR 3(6) 1948 | SDR 3(11) 1950 | SDR 3(6) 1948 | DF-019-2(5) 1958 | F-019-2(6) 1958

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| Feb 2006 | D.B. |
| **Revised** | |
| 5/06 | G.N. |
| 1/08 | D.B. |
| 12/09 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 1/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

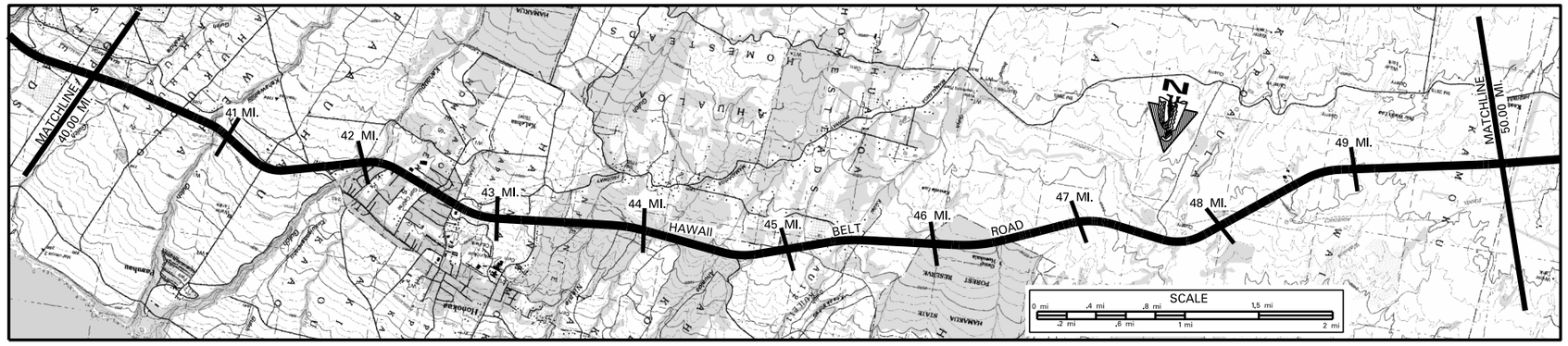
# ROAD INVENTORY
# HAWAII RTE 19
# HAWAII BELT ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 99.526 miles
**a. Survey Length:** 99.526 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*




SCALE: (In Miles) 2" = 1 mile

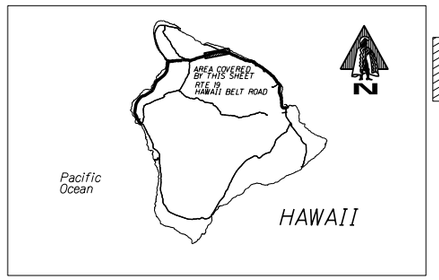
Maintenance Control Sections : Length and Description
19G (12.57 MILES) | END 19F & BEGIN 19G ON HAWAII BELT RD. AT THE CENTERLINE INTERSECTION WITH MAMANE ST. | 19F (10.05 MILES)

**Structure Carrying Road**
Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- CONC. BOX GIRDER 1959 HS-20 — 217'
- TWIN BOX CULVERT 1953 HS-20 — 27'
- CONC. BOX GIRDER 1963 HS-20 — 166'

Vertical Clearance
Horizontal Clearance
- 28'
- 36'
- 28'

**Structure Over Road**
Vertical Clearance
Horizontal Clearance

Right of Way Width (min.-max.) If varies: VARIES 100' – 270' | VARIES 100' – 180' | VARIES 80' – 185'
Available Right of Way Width (Needs Study): CLEAR 1000' PASTURE GRASSLAND WITH SMALL TREES 20' FROM EDGE OF PAVEMENT (CLEAR 1000' GRASS & SMALL TREES)
Right of Way Fence: Type – Right and Left: WIRE ON WOOD 20' FROM EDGE OF PAVEMENT LEFT AND RIGHT
Control of Access: 1–None, 2–Partial, 3–Full: NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE
Project No., Type of Construction, and Year Constructed: NH-019-1(36), GUARDRAIL & SHOULDER IMPRV., 2010
Project No., Type of Construction, and Year Constructed: NH-019-1(37), GRD RAIL & SHLDR IMP., 2009 | STP-019-1(17) RESURF. 1996 | 19F-01-97M RESURF. 1999




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**
* MP = Milepost Signage

CONTINUE FROM SHEET #5

Culvert — ELEV. 1000'/305m (L&R) — 40.317 mi., 40.616 mi.
Paved Road — 40.638 mi.
Kahawaiiii Road — 40.777 mi., 40.717 mi.
Tractor Crossing — 40.862 mi.
Bridge — 40.991 mi.
Puahuhu Rd. (R) Kalopa Rd. (L) — 41.324 mi.
Begin Divided Hwy — 41.581 mi.
Honokaa-Waipio Rd. Rte 240 to Honokaa — 41.744 mi., 41.712 mi.
End Divided Hwy — 41.953 mi.
Kahaupu Bridge — 42.023 mi.
Opuhe Street — 42.206 mi.
Loke Street — 42.282 mi., 42.286 mi.
42.5 MP
Pikake Street — 42.524 mi.
Pakalana Street (R) Mauna Loa Street (L) — 42.734 mi., 42.738 mi.
Tractor Crossing — 42.861 mi.
Begin Divided Hwy — 43.156 mi.
Plumeria St — 43.264 mi.
End Divided Hwy — 43.452 mi., 43.494 mi.
Tractor Crossing — 43.657 mi.
Niaole Bridge — 43.709 mi., 43.747 mi.
Paved Road — 44.679 mi., 45.020 mi.
Kapuna Road ELEV. 2000'/610m (L&R) — 45.408 mi., 45.501 mi.
Camp (Camp Honolulu Ctr) — 45.702 mi., 46.429 mi.
ELEV. 2500'/762m (L&R) — 46.733 mi., 47.653 mi., 47.697 mi., 48.686 mi., 49.693 mi.
HAWAII BELT ROAD
MP: 41 MP 66 KM; 42 MP; 43 MP; 44 MP; 45 MP; 46 MP 74 KM; 47 MP; 48 MP; 49 MP; 50 MP

CONTINUE ON SHEET #7

SCALE: (In Miles) 2" = 1 mile

**Divided Highway — Undivided**
- Shoulder: Width and Type: 4' AC | 8'–26' AC | 6'–8' AC | 4'–6' AC | 6'–8' AC | 4'–6' AC | 6' AC
- Pavement: Width and Type: 24' AC | 14' AC | 24' AC | 12' AC | 24' AC
- Shoulder: Width and Type: 4' AC | 10'–16' AC | 6'–8' AC | 4'–6' AC | 0 | 4'–6' AC | 6' AC | 0 | 6' AC
- Median: Width and Type: (CENTERLINE MILLED RUMBLE STRIP) (RAISED PAVEMENT MARKERS CENTERLINE RUMBLE STRIP) | 0'–16' PAINTED AC | 0'–30' PAINTED AC
- Median Barriers:
- Shoulder: Width and Type: 0
- Pavement: Width and Type: 14' AC | 12' AC
- Shoulder: Width and Type: 6'–8' AC | 6' AC

Number of Traffic Lanes: 2–12' | 2–14' | 2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 1–13' ACEL | 1–13' (L) T.L. | 1–12' (L) T.L.
(Right Side)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): 3' C, SW | 2' C, SW | C, C, | C, C, & G | 2' C, SW | 1' C, SW | C, C,
Curb and/or Gutter: Type (Right and Left): AC G
Protective Devices: Type, Location and Number — ALL METAL ON METAL (UNLESS NOTED OTHERWISE)
Illumination: Type, Location and Number
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): A | B | A
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): C | D | B | C | D | C | D | C | D | C | B | C | D | C | D | C | B | C | D | B | C | B
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)
Speed: 1–Design, 2–Posted: 55 MPH (MIN. 40 MPH) (2) / 55 MPH (2) | 45 MPH (2) | 55 MPH (MIN. 40 MPH) (2) / 55 MPH (2) | 45 MPH (2) | 55 MPH (MIN. 40 MPH) (2) / 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0019 03978; B71 0019 04252 | B71 0019 04970
HPMS Sections – AADT 2017: 7,150 | 8,600
HPMS Sections – AADT 2016: 6,600 | 6,600 | 8,000
HPMS Sections – AADT 2015: 7,000 | 6,200 | 7,300
DOD Sections
Census Tracts
Functional Classification: PRINCIPLE ARTERIAL (3)
National Highway System (NHS): ON NHS (1)
Previous Projects: Project No., Date and Limits
- 19G-01-99M (RESURF) 2000
- STP-019-1(17) RESURF. 1996
- STP-019-1(25) SHOULDER IMPROVEMENT 1998
- STP-0100(31), GUARDRAIL IMPROVEMENT 1994
- 19EF-01-89M (RESURF) 1990
- 19G-02-88M RESURF. 1988
- 19FG-01-81M RESURF. 1982
- 19G-01-74 1974
- F-019-2(6) 1958
- (F-019-1(1), UNIT 2 1961)
- SDR 3(37 1952 & 1953
- 19F-01-78M 1978
- F-019-1(5) 1986 Inter. Impr.
- F-019-1(1), UNIT 2 1961

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| Feb 2006, D.B. |

| Revised | |
|---|---|
| G.N. | 4 / 06 |
| D.B. | 9/10 |
| D.B. | 2/11 |
| D.B. | 2/12 |
| E.P.J. | 9/12 |
| E.P.J. | 1/13 |
| E.P.J. | 12/13 |
| D.B. | 7/14 |
| E.P.J. | 1/16 |
| E.P.J. | 1/17 |
| D.B. | 2/18 |
| D.B. | 11/18 |

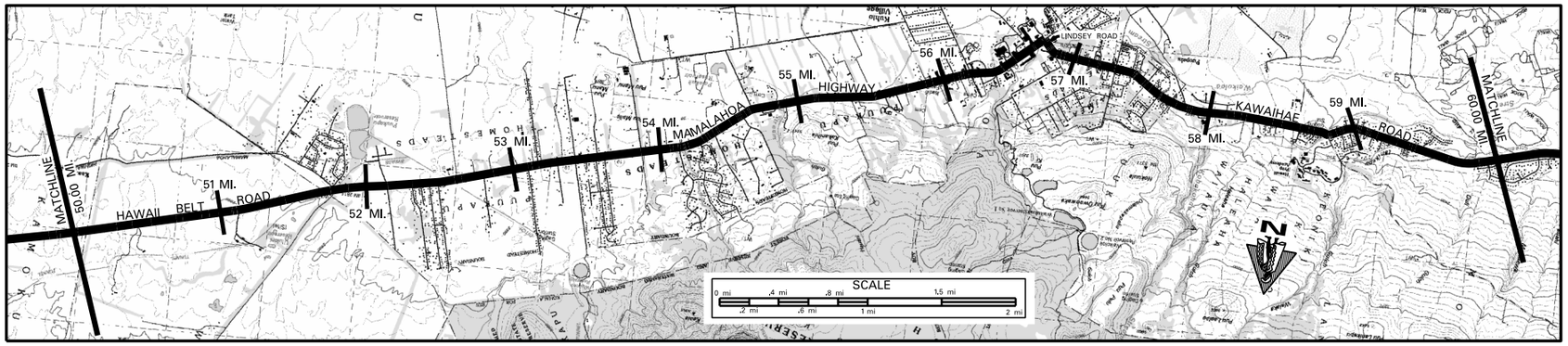
# ROAD INVENTORY
# HAWAII RTE 19
## KAWAIHAE RD., MAMALAHOA HWY, HAWAII BELT ROAD, LINDSEY RD.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 99.526 miles
**a. Survey Length:** 99.526 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*



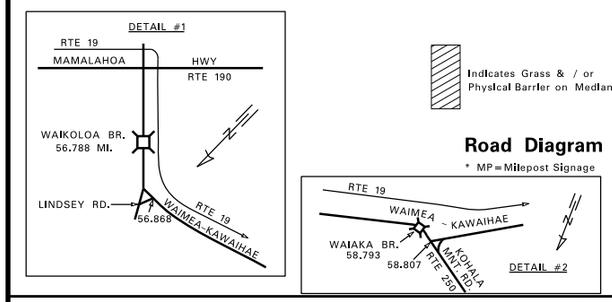

SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 19 F (10.05 MI.); END 19E, BEGIN 19F AT THE CENTERLINE OF MUD LANE; 19E (0.22); BEGIN 19E AT THE END STATE HWY SIGN; COUNTY; END 19D AT THE END OF STATE HWY SIGN; 19D (8.92 MILES)

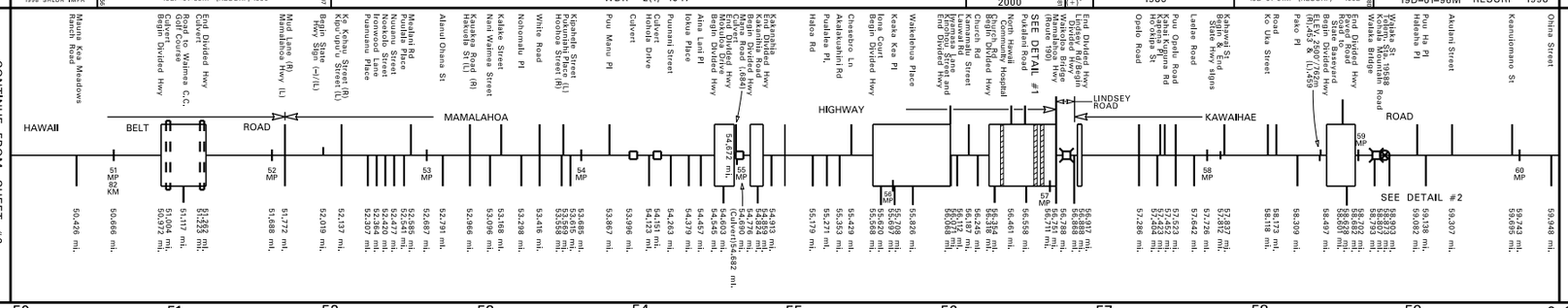
**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: SLAB 1968 HS-20 36'; SLAB 1932 H-15 38'
- Vertical Clearance
- Horizontal Clearance: 44'; 24'

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.-max.) If varies: 80' VARIES TO 185'; 60'
Available Right of Way Width (Needs Study): CLEAR 1000' GRASS AND SMALL TREES; RESIDENTIAL AREA; CLEAR 1000'
Right of Way Fence: Type – Right and Left: WIRE ON WOOD 20' FROM EDGE OF PAVEMENT LEFT AND RIGHT
Control of Access: 1–None, 2–Partial, 3–Full: NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE; COUNTY; STATE (829+50) (779+80) (504+71.30)
Project No., Type of Construction, and Year Constructed: 19F-01-97M (RESURF) 1999; STP-019-1(24) RESURF IMPR 2000; STP-0100(42) COUNTY RESURF IMPR 2008; RS-0250(05) COUNTY (RESURF) 1986; 19D-01-06M, RESURF, 2008; NH-019-1(34), (R), IMPV., 2007
Project No., Type of Construction, and Year Constructed: STP-019-1(25) 1998 SHLDR IMPR; 19EF-01-89M (RESURF) 1990; WDR 2(1) 1947; (SEE ALSO RTE 190); 19D-01-91M (RESURF) 1992; 19D-01-96M RESURF 1998




CONTINUE FROM SHEET #6




CONTINUE ON SHEET #8

SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**
- Shoulder: Width and Type: 6' AC; 12' – 24' GRASS; 10'-20' GRASS; 10'-AC 6' AC; 4'-6' AC; 5' AC 4' AC 10' AC
- Pavement: Width and Type: 24' AC; 12' AC; 24' AC; 22' AC; 20' AC; 10' AC; 40' AC; 22' AC; 24' AC; 22' AC; 11' AC; 22' AC; 20' AC
- Shoulder: Width and Type: 6' AC; 0; 6' AC; 7' – 15' GRASS; 4' – 10' GRASS; 12'–24' GRASS; 4'-6' DIRT; 4'-6' PAINT; 0; 12'–24' GRASS; 0; 4'-8' PAINT; 4'-8' DIRT; 4'-8' AC PAINT; 4'-8' PAINTED GRASS; 2'-4' PAINTED AC; 12' PAINTED AC; 4'-6' DIRT; 4'-6' AC; 0; 4'-6' AC; 5' AC 4' AC 10' AC

**Divided Highway**
- Median: Width and Type
- Median Barriers:
- Shoulder: Width and Type: 0; 0; 0; 0
- Pavement: Width and Type: 12' AC; 10' AC; 10' AC; 10' AC; 11' AC
- Shoulder: Width and Type: 6' AC; 8' AC; 0; 4'-6' AC

Number of Traffic Lanes: 2 – 12'; 2–11'; 2 – 10'; 4–10'; 2–10'; 2–12'; 2–11'; 2–10'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 14' ACCEL LN.; 14' T.L.
(Right Side): 10' TL
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): 10' C, SW; 5' C, SW; 6' C, SW; 4' C, SW
Curb and/or Gutter: Type (Right and Left): C, C&G; 6" C, C&G
Protective Devices: Type, Location and Number: ALL METAL ON METAL (UNLESS NOTED OTHERWISE)
Illumination: Type, Location and Number: 17 MV IN 2.85 MILES
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): A; BAB; A; C; AB; AB; A; A; C; A; CBA; FAD; A; DA; BA; B; A; DEA; A
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): B; C; B; A; B; B; C; B; A; B; A; B; A; B; A; B; C; D; C; B; C; D; B; C; D; C; B; C
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999); SMALL URBAN (99998)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2); ROLLING (2); FLAT (1); ROLLING (2)
Speed: 1–Design, 2–Posted: 55 MPH (MIN. 40 MPH) (2); 55 MPH (2); 45 MPH (2); 30 MPH (2); 35 MPH (2); 25 MPH (2); 35 MPH (2); 45 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing: 2 PHASE

Traffic Stations (Current Year): B71 0019 04970; B71 0019 05469; B71 0019 05655; B71 0019 05674; B71 0019 05811; B71 0019 05890; B71 0019 06318
HPMS Sections – AADT 2017: 8,600; 16,000; 18,400; 17,900; 13,300; 10,300; 8,500
HPMS Sections – AADT 2016: 8,000; 15,100; 18,500; 15,700; 13,600; 10,200; 8,200
HPMS Sections – AADT 2015: 7,300; 14,700; 13,000; 15,900; 12,700; 10,000; 7,200
DOD Sections
Census Tracts
Functional Classification: PRINCIPAL ARTERIAL (3)
National Highway System (NHS): ON NHS (1)
Previous Projects: Project No., Date and Limits:
- 19EF-01-89M RESURF 1990
- 19F-02-78 SHLDR STABILIZATION
- 19F-01-78M RESURF 1978
- F-019-1(1), UNIT 2 1961
- WDR 2(1) 1947
- HES-0100(26) CURVE IMPRV, COUNTY 1986
- RS-0250(05) COUNTY RESURFACE 1986
- WDRC 12(1) 1947
- 19D-01-91M (R) 1992
- 19D-01-72 (R) 1972
- 19D-01-82M 1982
- HES-0100(28) PHASE 2 SAFETY IMPRV 1987
- (19D-01-90M (R) 1991)
- FAP E-11A 1933
- NRH 11C 1933

390+00; 829+50.00; 1+77.90; 504+77.30

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| Feb 2006, D.B. |

| Revised | |
|---|---|
| G.N. | 4 / 06 |
| D.B. | 1/08 |
| D.B. | 4/09 |
| D.B. | 9/10 |
| D.B. | 2/11 |
| D.B. | 2/12 |
| E.P.J. | 9/12 |
| E.P.J. | 1/13 |
| E.P.J. | 12/13 |
| D.B. | 7/14 |
| E.P.J. | 1/16 |
| E.P.J. | 1/17 |
| D.B. | 2/18 |
| D.B. | 11/18 |

# ROAD INVENTORY

# HAWAII RTE 19

## QUEEN KAAHUMANU HWY, KAWAIHAE RD.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

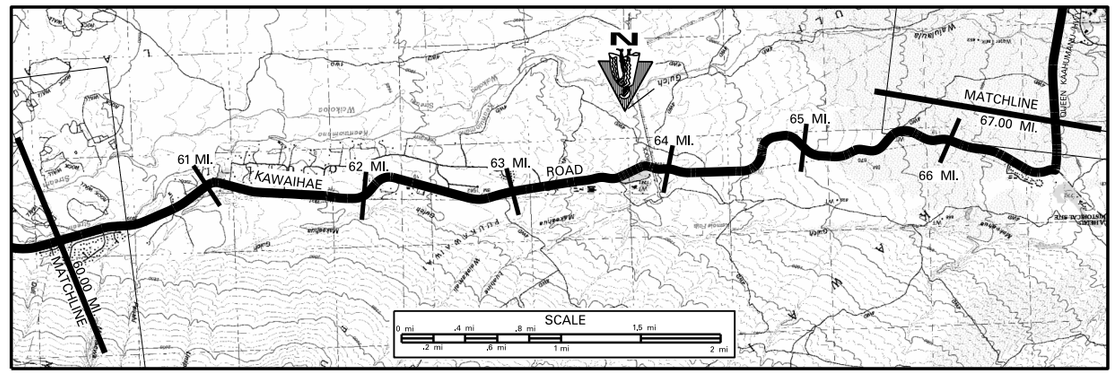
**Total Route Length:** 99.526 miles

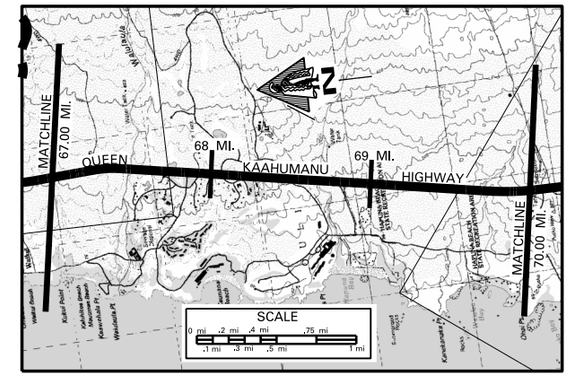
**a. Survey Length:** 99.526 miles

**b. Proposed Length:** 0.00 miles

**c. Other Length: *** 0.00 miles

*



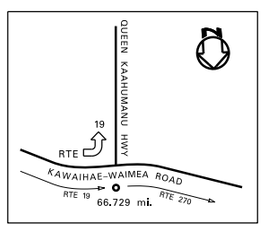




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

19D (8.92 MILES) — END 19C – BEGIN 19D ON QUEEN KAAHUMANU HWY AT CENTERLINE OF KAWAIHAE–MAHUKONA ROAD — 19C (15.04 MILES)

| | |
|---|---|
| Structure Carrying Road | Bridges (Over 20'): Length, Type, Capacity and Year Constructed |
| | Vertical Clearance |
| | Horizontal Clearance |
| Structure Over Road | Vertical Clearance |
| | Horizontal Clearance |
| Right of Way Width (min.–max.) If varies | 60' / 80' – 145' / 340' – 420' |
| Available Right of Way Width (Needs Study) | 1000' CLEAR – GRASS, BUSHES AND SMALL TREES / (CLEAR 1000' – GRASS, BUSHES, & LAVA ROCK 8'–10' FROM EDGE OF PAVEMENT) |
| Right of Way Fence: Type – Right and Left | WIRE ON WOOD 20' FROM EDGE OF PAVEMENT / WIRE ON WOOD 20' FROM EDGE OF PAVEMENT |
| Control of Access: 1–None, 2–Partial, 3–Full | NONE |
| Jurisdiction, Transfer Phase No. and Date (C to S or S to C) | STATE / COUNTY TO STATE, PHASE 2 / STATE |
| Project No., Type of Construction, and Year Constructed | NH–019–1(34), RESURFACE, IMPV., 2007 / 19BC–01–17, RUMBLE STRIP, 2018 |
| Project No., Type of Construction, and Year Constructed | 19D–01–96M RESURFACE 1998 / 19CD–01–97M RESURFACE 1999 / NH–019–1(29), GUARDRAIL & SHLDR. IMPR., 2006 / NH–019–1(28), GUARDRAIL & SHOULDER IMPRV., 2006 / NH–019–1(33), RESURF., 2005 |




DETAIL

**Road Diagram**

* MP = Milepost Signage

CONTINUE FROM SHEET #7

Mahua Street · Electric Power Sub-Station (ELEV. 2000'/610m (R) & (L)) · Quill Street · Kanehoa Street · Kahinu Place · Amekona Street · (ELEV. 1500'/457m (R) & (L)) · Waluia Drive · Waiemi Pl · Tractor Crossing · (ELEV. 1000'/305m (R) & (L)) · Entrance to Water Supply Tank · Waiopuka Gulch (L) 323' & (R) 324' · Emmalani Street · SEE DETAIL · Kawaihae Road (Rte 270) end Div. Hwy · Begin Divided Hwy · Culvert · Mauna Kea Beach Hotel and Golf Xing · Begin Divided Hwy · End Divided Hwy · Kauna Oa Dr. · Kea Kea Land Bridge · Begin Divided Hwy · Hapuna Bay Drive · End Divided Hwy · Begin Divided Hwy

KAWAIHAE ROAD QUEEN KAAHUMANU HIGHWAY

61 MP · 62 MP · 63 MP · 64 MP 103 km · 65 MP · 66 MP · 67 MP · 68 MP · 69 MP 111 km · 70 MP

60.284 mi. · 60.703 mi. · 60.813 mi. · 60.927 mi. · 61.502 mi. · 61.702 mi. · 61.736 mi. · 62.291 mi. · 62.596 mi. · 62.749 mi. · 62.979 mi. · 63.194 mi. · 63.680 mi. · 63.763 mi. · 64.230 mi. · 64.460 mi. · 64.719 mi. · 65.706 mi. · 65.709 mi. · 66.433 mi. · 66.729 mi. · 66.704 mi. · 66.844 mi. · 66.999 mi. · 67.748 mi. · 67.782 mi. · 67.875 mi. · 68.089 mi. · 68.207 mi. · 68.501 mi. · 68.713 mi. · 68.868 mi. · 68.861 mi. · 69.114 mi. · 69.704 mi. · 69.953 mi.

CONTINUE ON SHEET #9

SCALE: (In Miles) 2" = 1 mile

| | |
|---|---|
| Divided Highway – Undivided – Shoulder: Width and Type | 4' AC / 10' AC / 4' AC / 10' AC / 4' AC / 10' AC / 4' AC / 10' AC / 4' AC / 10' AC / 4' AC / 10' AC / 4'–10' AC / 4' AC / 12' AC / 4' AC / 12' AC / 4' AC / 12' AC / 4' AC / 12' AC / 4' AC / 12' AC / 4' AC / 12' AC / 6' AC / 12' AC / 6' AC / 12' AC / 6' AC/4' SEAL COAT / 12' AC / 6' AC/4' SEAL COAT (6' AC/4' SEAL COAT) |
| Pavement: Width and Type | 20' AC / 22' AC / 24' AC / 22' AC / 24' AC / 22' AC / 24' AC / 24' AC / 12' AC / 24' AC / 12' AC / 24' AC / 12' AC / 24' AC (12' AC) |
| Shoulder: Width and Type | 4' AC / 10' AC / 4' AC / 10' AC / 4' AC / 10' AC / 4' AC / 10'–12' AC / 4' AC / 10' AC / 4' AC / 4'– 10' AC / 0 / 12' AC / 4' AC / 12' AC / 0 / 6' AC/4' SEAL COAT / 0 / 6' AC/4' SEAL COAT / 12' AC / 0 |
| Median: Width and Type (CL M RS = CenterLine Milled Rumble Strip) | 0 – 13' PAINTED MEDIAN / 0 – 12' PAINTED MEDIAN / 0 – 12' PAINTED MEDIAN |
| Median Barriers: | |
| Shoulder: Width and Type | 0 / 0 / 0 |
| Pavement: Width and Type | 12' AC / 12' AC / (12' AC) |
| Shoulder: Width and Type | 4' AC / 12' AC / 10' GRV / 12' AC / (10' GRV) / 12' AC / 6' AC/4' SEAL COAT / (6' AC/4' SEAL COAT) |
| Number of Traffic Lanes | 2 – 10' / 2 – 11' / 2 – 12' / 2 – 11' / 2 – 12' / 2 – 11' / 2 – 12' |
| Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) | |
| (Right Side) | |
| Frontage Road: No. of Lanes, and Width (Right and Left) | |
| Sidewalk: Width and Type (Right and Left) | |
| Curb and/or Gutter: Type (Right and Left) | |
| Protective Devices: Type, Location and Number (ALL METAL ON METAL (UNLESS NOTED OTHERWISE)) | |
| Illumination: Type, Location and Number | |
| Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) | AB A A CA A B A C A DC B A C DA DA AC AB DA DA C AC A C A |
| Superelevation (Range) | |
| Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) | (C) C D C B D C D D E D E D C B C B IA B C A B |
| Vertical Curve: Crest or Sag, Curve Limits | |
| Area and Development: | (SMALL URBAN (99998)) / RURAL (99999) / SMALL URBAN (99998) |
| Terrain: 1–Flat, 2–Rolling, 3–Mountainous | ROLLING (2) |
| Speed: 1–Design, 2–Posted | 45 MPH (2) / 35 MPH (2) / 45 MPH (2) / 35 MPH (2) / 45 MPH (2) / 55 MPH (2) |
| Intersection Control Devices: Type, Location and Cycle Timing | |
| Traffic Stations (Current Year) | B71 0019 06318 / B71 0019 07168 |
| HPMS Sections – AADT 2017 | 8,500 / 13,200 |
| HPMS Sections – AADT 2016 | 8,200 / 11,900 |
| HPMS Sections – AADT 2015 | 7,200 / 11,000 |
| DOD Sections | |
| Census Tracts | |
| Functional Classification | PRINCIPLE ARTERIAL (3) |
| National Highway System (NHS) | ON NHS (1) |
| Previous Projects: Project No., Date and Limits | (19D–01–90M RESURF 1991) / 19D–01–90M, RESURF., 1991 / 19C–01–78, SHLDR., 1978 / 19C–01–78 1978, SHLDR. STAB. / 19C–01–94M 1994 SHLDR IMPROV / HES–0100(28) PHASE 2 SAFETY IMPROV 1987) / 19CD–01–97M RESURFACE 1999 / NH–019–1(28), GUARDRAIL & SHOULDER IMPRV., 2006 / (NH–019–1(31) GUARDRAIL & SHLDR IMPR 2004) / (19D–01–90M (R) 1991) / 19D–01–90M (R) 1991 / 19D–01–90M (R) 1991 / (HES–0100(27), PH 1, 1986 SAFETY IMP.) / (HES–0100(27), PH 1, 1986 SAFETY IMP.) / 19C–01–76M RESURF 1977 / 19BC–01–71, 1974 GRADING, 1975 PAVING / (19D–01–82M, 1982) / (HES–0100(28), PH 2 SAFETY, 1987) / (HES–0100(27), PH 1, 1986 SAFETY IMP.) / 19D–01–72 RESURFACE 1972 / NRH–11C 1933 / FAP 11–8 1933 / G–3257–01–60 1962 |

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| Feb 2006, D.B. |

| Revised | |
|---|---|
| G.N. | 4 / 06 |
| D.B. | 1/07 |
| D.B. | 2/08 |
| D.B. | 9/10 |
| D.B. | 2/11 |
| D.B. | 2/12 |
| E.P.J. | 9/12 |
| E.P.J. | 1/13 |
| E.P.J. | 12/13 |
| D.B. | 7/14 |
| E.P.J. | 1/16 |
| E.P.J. | 1/17 |
| D.B. | 2/18 |
| D.B. | 11/18 |

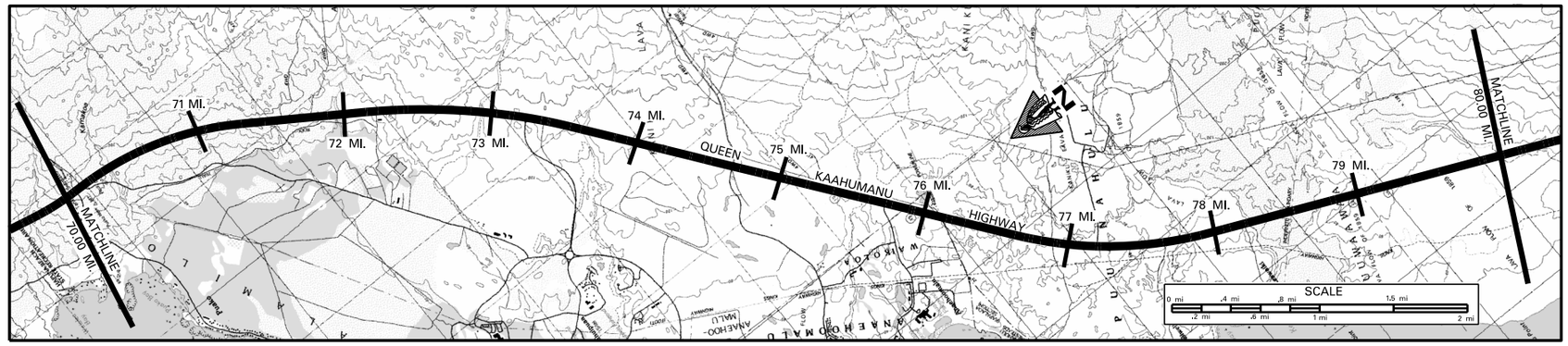
# ROAD INVENTORY
# HAWAII RTE 19
# QUEEN KAAHUMANU HWY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 99.526 miles
**a. Survey Length:** 99.526 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*

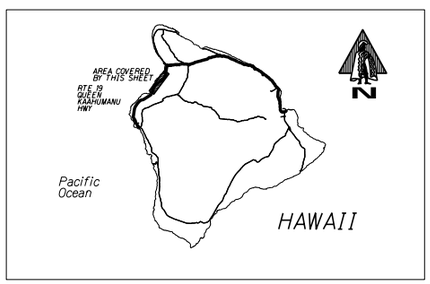



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description — 19C (15.04 MILES)

Structure Carrying Road: Bridges (Over 20'): Length, Type, Capacity and Year Constructed
Vertical Clearance
Horizontal Clearance
Structure Over Road: Vertical Clearance
Horizontal Clearance

Right of Way Width (min.–max.) If varies — 340' – 420' | 76.00 | 310' – 390'
Available Right of Way Width (Needs Study) — CLEAR 1000' – GRASS, BUSHES AND LAVA ROCK 8' – 10' FROM EDGE OF PAVEMENT | 80.00 (CLEAR 1000' – LAVA ROCK 8'–10' FROM EDGE OF PAVEMENT)
Right of Way Fence: Type – Right and Left — N O N E
Control of Access: 1–None, 2–Partial, 3–Full — N O N E
Jurisdiction, Transfer Phase No. and Date (C to S or S to C) — S T A T E
Project No., Type of Construction, and Year Constructed — 19BC–01–17, RUMBLE STRIPS, 2018
Project No., Type of Construction, and Year Constructed — NH–019–1(33), RESURFACING, 2005




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**
* MP = Milepost Signage

CONTINUE FROM SHEET #8

Hoohana St. Driveway (L) — Puako Beach Dr. (R) — End Divided Hwy — Road — Police and Fire Station Access Road — Begin Divided Hwy — Driveway (L) — Mauna Lani Drive (R) — End Divided Hwy — Begin Divided Hwy — Waikoloa Beach Dr. — End Divided Hwy — Waikoloa Beach Drive (Hilton Resort) — Begin Divided Hwy — North Kona–South Kohala District Bdry — End Divided Hwy — Begin Divided Hwy — Pu'u Pohaku Road — End Divided Hwy — Culvert

QUEEN KAAHUMANU HIGHWAY

71 MP — 72 MP — 73 MP — 74 MP 119 KM — 75 MP — 76 MP — 77 MP — 78 MP — 79 MP — 80 MP

70.157 mi. — 70.101 mi. — 70.373 mi. — 70.706 mi. — 70.898 mi. — 71.703 mi. — 72.249 mi. — 72.715 mi. — 73.114 mi. — 73.267 mi. — 73.513 mi. — 73.708 mi. — 74.357 mi. — 74.715 mi. — 74.702 mi. — 75.024 mi. — 75.597 mi. — 75.758 mi. — 75.700 mi. — 76.089 mi. — 76.028 mi. — 76.705 mi. — 76.915 mi. — 77.226 mi. — 77.449 mi. — 77.687 mi. — 78.358 mi. — 78.698 mi. — 79.699 mi.

CONTINUE ON SHEET #10

SCALE: (In Miles) 2" = 1 mile

**Divided Highway — Undivided**

Shoulder: Width and Type — 6' AC/4' SEAL COAT; 12' AC; 6' AC
Pavement: Width and Type — 12' AC; 24' AC; 24' AC; 12' AC; 24' AC; 12' AC; 24' AC; 12' AC; 24' AC
Shoulder: Width and Type — 0; 12' AC; 6' AC/4' SEAL COAT; 6' AC/4' SEAL COAT; 6' AC; 6' AC; 0; 6' AC; 12' AC; 6' AC; 0; 10' AC; 0; 10' AC
Median: Width and Type — CL M RS = Centerline Milled Rumble Strip; PAINTED MEDIAN 0' – 12'; 6' AC/4' SEAL COAT; (+Shoulder Milled Rumble Strips); PAINTED MEDIAN 0' – 12'; PAINTED MEDIAN 0' – 19'; PAINTED MEDIAN 0' – 12'; PAINTED MEDIAN 0' – 19'
Median Barriers:
Shoulder: Width and Type — 0; 0; 0; 0; 0
Pavement: Width and Type — 12' AC; 12' AC; 12' AC; 12' AC; 12' AC
Shoulder: Width and Type — 6' AC/4' SEAL COAT; (12' AC); 6' AC; 6' AC; 6' AC; 10' AG; 10' AC

Number of Traffic Lanes — 2 – 12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left)
Protective Devices: Type, Location and Number — ALL METAL ON METAL (UNLESS NOTED OTHERWISE)
Illumination: Type, Location and Number — N O N E
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) — A
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) — B; A; C; A; C; A; B; A; B; A; B; A; B; A; B; A; B
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: — SMALL URBAN (99998)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous — ROLLING (2)
Speed: 1–Design, 2–Posted — 55 MPH (2); 45 MPH (2); 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing — 3 PHASE; 3 PHASE
Traffic Stations (Current Year) — B71 0019 07167; P71 0000 0S8R
HPMS Sections – AADT 2017 — 13,200; 13,400
HPMS Sections – AADT 2016 — 11,900; 13,700
HPMS Sections – AADT 2015 — 11,000; 13,700
DOD Sections
Census Tracts
Functional Classification — PRINCIPAL ARTERIAL (3)
National Highway System (NHS) — ON NHS (1)
Previous Projects: Project No., Date and Limits

19C–03–94M 1994 SHOULDER IMPROVEMENT; 19BC–01–71 PHASE IIIA 1975 PAVING; G–3257–01–80 1982; 19 BC–01–71 (PHASE IIIA) (GRADING) 1974; 19C–01–91M 1992 SHOULDER IMPROVEMENT; NH–019–1(31) 2004 GUARDRAIL AND SHOULDER IMPROVEMENT; STP–019–1(23) 1997 SHOULDER IMPROVEMENT; 19BC–01–71 (PHASE III B) (GRADING 1974 AND PAVING 1975)

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| Feb 2006, D.B. |

| Revised | |
|---|---|
| G.N. | MAY 2006 |
| D.B. | 1/07 |
| D.B. | 3/08 |
| D.B. | 9/10 |
| D.B. | 2/11 |
| D.B. | 2/12 |
| E.P.J. | 9/12 |
| E.P.J. | 1/13 |
| E.P.J. | 12/13 |
| D.B. | 7/14 |
| E.P.J. | 1/16 |
| E.P.J. | 1/17 |
| D.B. | 2/18 |
| D.B. | 11/18 |

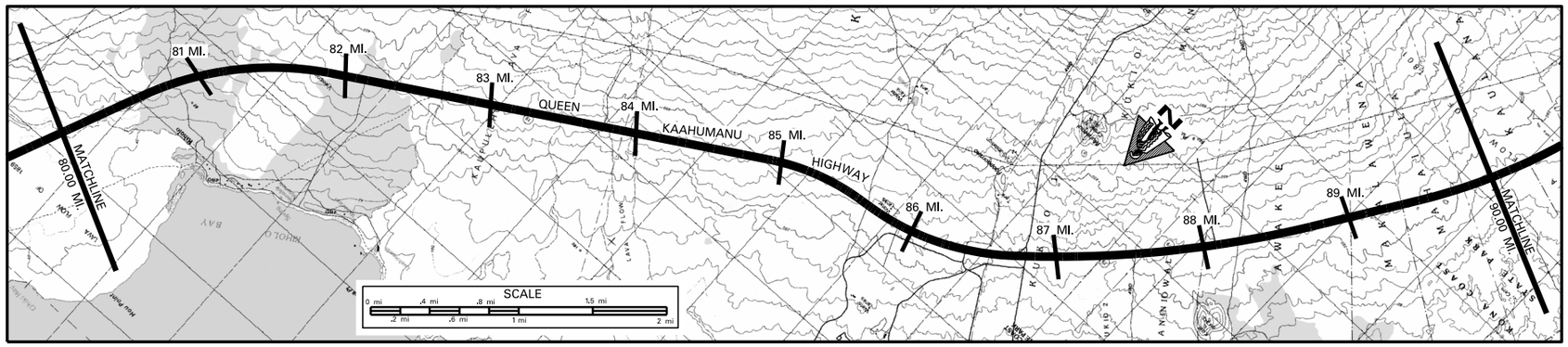
# ROAD INVENTORY
# HAWAII RTE 19
# QUEEN KAAHUMANU HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 99.526 miles
**a. Survey Length:** 99.526 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*

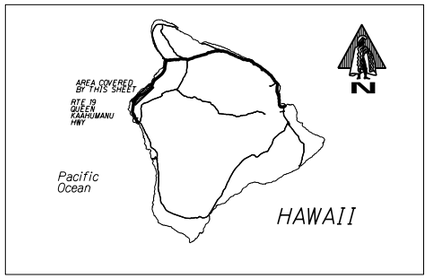



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 19C (15.04 MILES); END 19B – BEG 19C AT KEHOLO LOOKOUT; 19B (15.49 MILES)

Structure Carrying Road: Bridges (Over 20'): Length, Type, Capacity and Year Constructed
Vertical Clearance
Horizontal Clearance
Structure Over Road: Vertical Clearance
Horizontal Clearance

Right of Way Width (min.–max.) If varies: 310' – 390'
Available Right of Way Width (Needs Study): CLEAR 1000' – LAVA ROCK 8' – 10' FROM EDGE OF PAVEMENT
Right of Way Fence: Type – Right and Left: NONE
Control of Access: 1–None, 2–Partial, 3–Full: NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE
Project No., Type of Construction, and Year Constructed: 19BC–01–17, RUMBLE STRIP, 2018
Project No., Type of Construction, and Year Constructed: NH–019–1(33), RESURFACE, 2005




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**
* MP = Milepost Signage

CONTINUE FROM SHEET #9

Begin Divided Hwy; E.C.B. (19SO82) Access to Lookout; End Divided Hwy; Telem. Stat. SBR (Begin Measured Mile); Culvert; (End Measured Mile); Begin Divided Hwy; Ka'ūpūlehu Drive; Kuakō Nui Dr.; End Divided Hwy; Paved Road; Begin Divided Hwy; Kaua'i Bike Access Rd. (R); Ke Ala Koa (L) Hawaii Veteran's Cemetery; End Divided Hwy; Begin Divided Hwy

QUEEN KAAHUMANU HIGHWAY

81 MP; 82 MP; 132 KM; 83 MP; 84 MP; 85 MP; 86 MP; 87 MP; 140 KM; 88 MP; 89 MP; 90 MP

80.695 mi.; 81.316 mi.; 81.776 mi.; 81.759 mi.; 81.653 mi.; 82.306 mi.; 82.681 mi.; 83.514 mi.; 83.690 mi.; 83.999 mi.; 84.514 mi.; 84.688 mi.; 85.694 mi.; 86.198 mi.; 86.415 mi.; 86.691 mi.; 86.822 mi.; 87.131 mi.; 87.557 mi.; 87.667 mi.; 87.762 mi.; 88.111 mi.; 88.398 mi.; 88.669 mi.; 89.744 mi.; 89.965 mi.

CONTINUE ON SHEET #11

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided:
Shoulder: Width and Type: 6' AC; 10' AC; 10' AC; 8'–14' AC; 10' AC; 6' AC/8' GRAV; 10' AC; (6' AC)
Pavement: Width and Type: 12' AC; 24' AC; 12' AC; 12' AC; 24' AC; 12' AC; 24' AC; 12' AC; (12' AC)
Shoulder: Width and Type: 10' AC; 0; 10' AC; 10' AC; 0; 10' AC; 10' AC; 0; 10' AC; 0
Median: Width and Type: CL M RS = Center Line Milled Rumble Strip; 0'–18' PAINTED AC; 0'–30' PAINTED AC; 0'–30' PAINTED AC; (0'–12' PAINTED AC)
Median Barriers:
Divided Highway – Shoulder: Width and Type: 0; 0; 0; 0
Pavement: Width and Type: 12' AC; 8'–10' AC; 12' AC; 24' AC; 12' AC; 12' AC; (12' AC)
Shoulder: Width and Type: 12' AC; 8' AC; 10' AC; 12' AC; 8'–10' AC; (8'–10' AC)

Number of Traffic Lanes: 2 – 12'; 2 – 12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) — All Turning Lanes = 12'
(Right Side) — All Turning Lanes = 12'
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left)
Protective Devices: Type, Location and Number — ALL METAL ON METAL (UNLESS NOTED OTHERWISE)
Illumination: Type, Location and Number
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): A
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): B C A B A B A B A B A B C B A B A B B C B
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: SMALL URBAN (99998)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)
Speed: 1–Design, 2–Posted: 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): P71 0000 0S8R
HPMS Sections – AADT 2017: 13,400
HPMS Sections – AADT 2016: 13,700
HPMS Sections – AADT 2015: 13,700
DOD Sections
Census Tracts
Functional Classification: PRINCIPAL ARTERIAL (3)
National Highway System (NHS): ON NHS (1)
Previous Projects: Project No., Date and Limits:
NH–019–1(31) GUARDRAIL AND SHOULDER IMPROVEMENT 2004
STP–019–1(23) SHOULDER IMPROVEMENT 1997
19 BC – 01 – 71 (PHASE III B GRADING) 1974

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| Feb 2006, D.B. |

| Revised | |
|---|---|
| G.N. | MAY 2006 |
| D.B. | 1/07 |
| D.B. | 3/08 |
| D.B. | 9/10 |
| D.B. | 2/11 |
| D.B. | 2/12 |
| E.P.J. | 9/12 |
| E.P.J. | 1/13 |
| E.P.J. | 12/13 |
| D.B. | 7/14 |
| E.P.J. | 1/16 |
| E.P.J. | 1/17 |
| D.B. | 2/18 |
| D.B. | 11/18 |

# ROAD INVENTORY
# HAWAII RTE 19
# QUEEN KAAHUMANU HWY

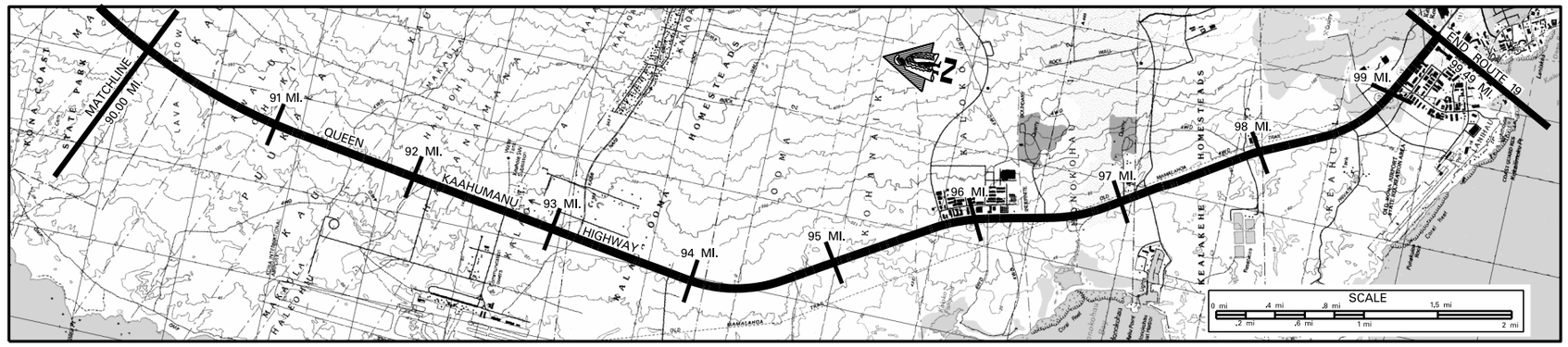
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 99.526 miles
- a. Survey Length: 99.526 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*

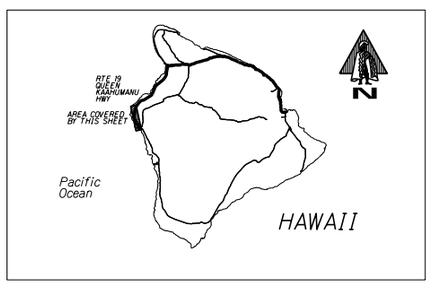



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

BEGIN 19B AT THE CENTERLINE OF KEALAKEHE PARKWAY ROAD — END 19A — 19 A (2.30 MILES) — BEGIN 19A SAME AS END ROUTE 19

| | |
|---|---|
| Structure Carrying Road | Bridges (Over 20'): Length, Type, Capacity and Year Constructed |
| | Vertical Clearance |
| | Horizontal Clearance |
| Structure Over Road | Vertical Clearance |
| | Horizontal Clearance |
| Right of Way Width (min.–max.) If varies | 310' – 390' / 300' |
| Available Right of Way Width (Needs Study) | CLEAR 1000' – LAVA ROCK 8' – 10' FROM EDGE OF PAVEMENT |
| Right of Way Fence: Type – Right and Left | NONE |
| Control of Access: 1–None, 2–Partial, 3–Full | NONE |
| Jurisdiction, Transfer Phase No. and Date (C to S or S to C) | STATE / COUNTY TO STATE, PHASE 3 |
| Project No., Type of Construction, and Year Constructed | (NH–019(33), RESUR., 2005) / (BD–69–352, PAVING 1969) / NH–019–1(20), WIDENING, 2009 |
| Project No., Type of Construction, and Year Constructed | NH–019–1(31) GUARDRAIL AND SHOULDER IMPROVEMENT 2004 / 19A–01–97M RESURFACE 2000 / 19A–01–97M RESURFACE 2000 |




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**

* MP = Milepost Signage

CONTINUE FROM SHEET #10

QUEEN KAAHUMANU HWY

| Begin | End | Length |
|---|---|---|
| Kona Coast State Park Road | End Divided Hwy | 90.103 mi. |
| End Divided Hwy | Begin Divided Hwy | 90.281 mi. |
| Begin Divided Hwy | Keahole Airport Rd. (R) Sub-Station (L) | 90.682 mi. |
| Keahole Airport Rd. (R) Sub-Station (L) | Begin Divided Hwy | 92.471 mi. |
| Begin Divided Hwy | Kaiminani Drive (to Kaloa) | 92.700 mi. |
| Kaiminani Drive (to Kaloa) | End Divided Hwy | 92.677 mi. |
| End Divided Hwy | Telem. Stat. 78M Begin Divided Hwy | 93.212 mi. |
| Telem. Stat. 78M Begin Divided Hwy | Makako Bay Dr. (R) Road to Power Sub-Station (L) | 93.387 mi. |
| Makako Bay Dr. (R) Road to Power Sub-Station (L) | End Divided Hwy | 93.669 mi. |
| End Divided Hwy | Begin Divided Hwy | 93.647 mi. |
| Begin Divided Hwy | Kohanaiki Way | 93.883 mi. |
| Kohanaiki Way | Begin Divided Hwy | 94.196 mi. |
| Begin Divided Hwy | Hulikoa Dr. | 94.869 mi. |
| Hulikoa Dr. | End Divided Hwy | 94.772 mi. |
| End Divided Hwy | Begin Divided Hwy | 95.061 mi. |
| Begin Divided Hwy | Ulu Ohia Street (Kaloko Ind. Park) | 95.277 mi. |
| Ulu Ohia Street (Kaloko Ind. Park) | Begin Divided Hwy | 95.482 mi. |
| Begin Divided Hwy | End Divided Hwy Ala Nui Kaloko | 95.818 mi. |
| End Divided Hwy Ala Nui Kaloko | Begin Divided Hwy | 96.175 mi. 96.116 mi. |
| Begin Divided Hwy | Allied Quarry Rd | 96.299 mi. |
| Allied Quarry Rd | Kaloko–Honokohau Road | 96.508 mi. |
| Kaloko–Honokohau Road | Honokohau St | 96.653 mi. |
| Honokohau St | Keakakehe Parkway (Route 197) | 97.066 mi. |
| Keakakehe Parkway (Route 197) | Pueo Road (R) Hale Makai Pl. (L) | 97.231 mi. |
| Pueo Road (R) Hale Makai Pl. (L) | Makala Blvd. | 97.682 mi. |
| Makala Blvd. | Kaiwi Street | 97.936 mi. |
| Kaiwi Street | Eho Street | 98.679 mi. |
| Eho Street | END ROUTE 19 | 98.869 mi. |
| END ROUTE 19 | | 99.125 mi. |
| END ROUTE 19 | | 99.351 mi. |
| END ROUTE 19 | | 99.517 mi. |

NOTE: ROUTE LENGTH ADJUSTED TO MATCH '17 PHOTOLOG & DATABASE
END ROUTE 19 ON QUEEN KAAHUMANU HIGHWAY FROM PAVEMENT OF PALANI ROAD (ROUTE 190)
99.526 MILES

SCALE: (In Miles) 2" = 1 mile

| | |
|---|---|
| Divided Highway – Undivided – Shoulder: Width and Type | 10' AC / 6' AC / 12' AC / 6' AC / 10'–12' AC / 6' AC / 11' AC / 10' AC / 0 |
| Pavement: Width and Type | 14' AC / 24' AC / 12' AC / 24' AC / 12' AC / 24' AC / 12' AC / 24' AC / 12' AC / 24' AC / 12' AC / 24' AC |
| Shoulder: Width and Type | 0 / 10' AC / 0 / 6' AC / 0 / 6' AC / 0 / 6' AC / 0 / (6' AC) / 0 / 5' AC / 2' AC |
| Median: Width and Type | 0'–12' PAINTED AC / 0 – 14' PAINTED AC / 0 – 15' PAINTED AC / 0 – 12' PAINTED AC / 0 – 12' PAINTED AC / 0 – 18' PAINTED AC / 4'–75' GRAVEL FLUSH / 12'–38' GRASS (RAISED) |
| Median Barriers: | |
| Shoulder: Width and Type | 0 / 0 / 0 / 0 / 0 / 0 / 5' AC / 0 / 2' AC |
| Pavement: Width and Type | 14' AC / 12' AC / (11' AC) / 12' AC / 12' AC / 12' AC / 24' AC |
| Shoulder: Width and Type | 12' AC / 10' SEAL COAT / 6' AC / 6' AC / 6' AC / 6' AC / (6' AC) / 8'–10' AC / 6' AC / 10' AC / 2' AC / 0 |
| Number of Traffic Lanes | 2 – 12' / 2 – 12' / 4–12' |
| Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) | 12' AC |
| (Right Side) | ALL TLs 12' |
| Frontage Road: No. of Lanes, and Width (Right and Left) | |
| Sidewalk: Width and Type (Right and Left) | 6' AC BIKE LANE / 6' AC BIKE LANE / 6' AC BIKE LANE |
| Curb and/or Gutter: Type (Right and Left) | C.&G. / C.&G. / 10' CONC. SW C.&G. / C.&G. |
| Protective Devices: Type, Location and Number (ALL METAL ON METAL (UNLESS NOTED OTHERWISE)) | |
| Illumination: Type, Location and Number | HPS |
| Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) | A |
| Superelevation (Range) | (B) |
| Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) | B A B A B A B A B A B C B A B A B A |
| Vertical Curve: Crest or Sag, Curve Limits | |
| Area and Development: | SMALL URBAN (99998) |
| Terrain: 1–Flat, 2–Rolling, 3–Mountainous | ROLLING (2) |
| Speed: 1–Design, 2–Posted | 55 MPH (2) / 45 MPH (2) / 35 MPH (2) |
| Intersection Control Devices: Type, Location and Cycle Timing | 3 PHASE / 3 PHASE / 3 PHASE / 3 PHASE / 3 PHASE / 4 PHASE |
| Traffic Stations (Current Year) | P71 0000 0SBR / P71 0000 00T8M / B71 0019 09719 |
| HPMS Sections – AADT 2017 | 13,400 / 24,400 / 27,472 |
| HPMS Sections – AADT 2016 | 13,700 / 24,000 / 27,200 |
| HPMS Sections – AADT 2015 | 13,700 / 24,400 / 22,100 |
| DOD Sections | |
| Census Tracts | |
| Functional Classification | PRINCIPLE ARTERIAL (3) |
| National Highway System (NHS) | ON NHS (1) |
| Previous Projects: Project No., Date and Limits | (STP–019–1(22) 1998) / (19A–01–97 INTER IMPR 2000) / (19B–01–97 1998 @ 97.32 MI.) 19A–01–97M RESURFACE 2000 |
| | STP–019–1(23) SHOULDER IMPROVEMENT 1997 / STP–019–1(18) RESURFACE 1997 / BD–69–352 PAVING 1969 / 19A–01–80M RESURFACE 1980 |
| | 19BC–01–71 (PHASE III B GRADING 1974 & PAVING 1975 / BD–66–7–352 UNIT 3 GRADING & BD–69–352 PAVING 1969 / B–3267–02–63 1964 |

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| Feb 2006, D.B. |

| Revised | |
|---|---|
| G.N. | MAY 2006 |
| D.B. | 1/07 |
| D.B. | 3/08 |
| D.B. | 9/10 |
| D.B. | 2/11 |
| D.B. | 2/12 |
| E.P.J. | 9/12 |
| E.P.J. | 1/13 |
| E.P.J. | 12/13 |
| D.B. | 7/14 |
| E.P.J. | 1/16 |
| E.P.J. | 1/17 |
| D.B. | 2/18 |
| D.B. | 11/18 |

ROAD INVENTORY

# HAWAII RTE. 130
# KEA'AU–PAHOA RD.

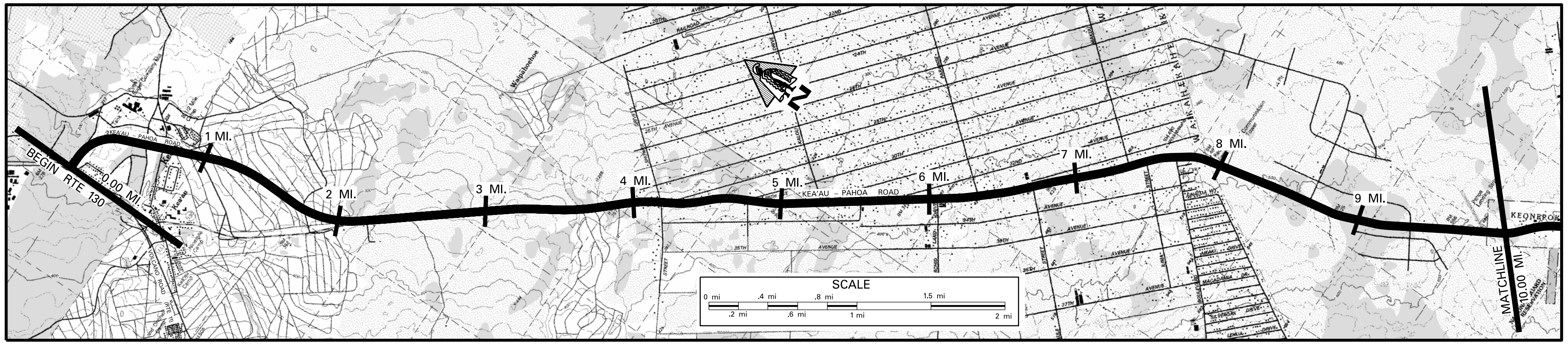
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Total Designated Route Length: 21.639 MILES (a+b)
a. Existing Length: 21.639 MILES
b. Proposed Length: 0.00 MILES
Total Travel Way Length: 21.639 MILES (a+b, less c)
a. Existing Length: 21.639 MILES
b. Temporary Length: 0.00 MILES
c. Length used as T.W. for another Route: 0.00 MILES (–)

NEEDS STUDY ROUTE NO. ____________ FUNCTIONAL CLASSIFICATION ____________



SCALE: (In Miles) 2" = 1 mile — 0 1 2 3 4 5 6 7 8 9 10

Maintenance Control Sections: Length and Description — 130 B (12.12 mi.)

Structure Carrying Road

Bridges (Over 20'): Length, Type, Capacity and Year Constructed — 3 – 72" Pipe Culvert 27'; 4 – 70" Pipe Culvert 28'; 4 – 44" Arch Culvert 30'; Triple Box Culvert 38'; Conc. Rigid Frame HS – 20, 1968 80'

Vertical Clearance — 0.35; 0.88; 1.09; 1.86; 3.78

Horizontal Clearance — 40'

Structure Over Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.–max.) if varies — 150' – 220' | 2.33 | 80' – 130' | 5.38 | 50' | 80'

Available Right of Way Width (Needs Study) — Clear 1000' – Small Trees & Bushes – 8' From Pavement. | 9.87 | Residential Area

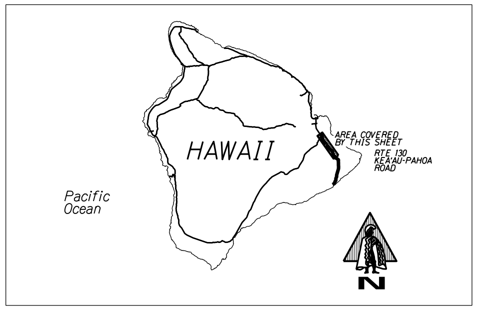
Right of Way Fence: Type – Right and Left

Control of Access: 1–None, 2–Partial, 3–Full — None

Jurisdiction, Transfer Phase No. and Date (C to S or S to C) — State; 173+25.78; 198+50; 114+00; 134+00; 134+11.34; 165+00

Project No., Type of Construction, and Year Constructed — 107+49.44; (STP–0130(33), Inter. Imprv., 2018) 3.96 → 4.43; (HSIP–0130–(30), 2012, INTERERSECTION IMPROVEMENTS) 7.51 → 7.89; 7.90 ← 8.49 (130B–01–07 ACCESS IMP., 2009)

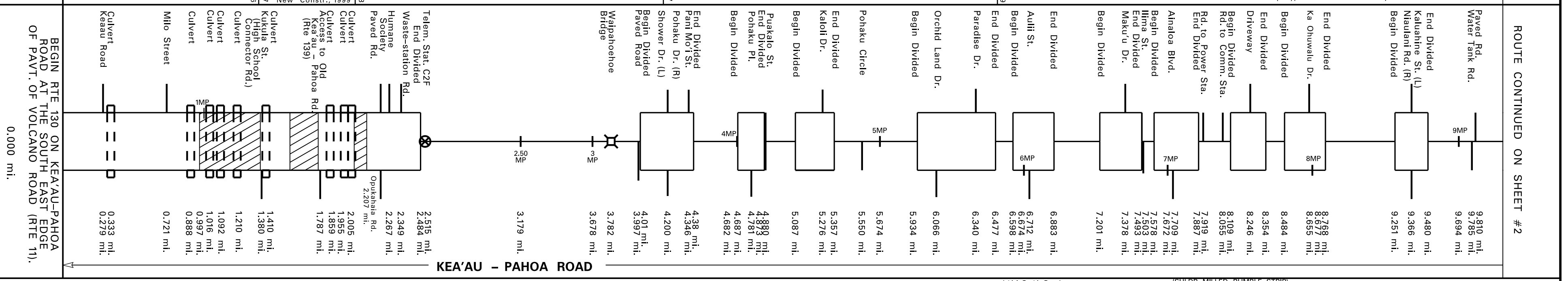
Project No., Type of Construction, and Year Constructed — 130B – 01 – 98, New Constr., 1999 1.36 | 1.37 130B – 01 – 92, New Constr., 1999 | 2.03 STP–0130–(28) Phase 1, Lanes, 2016 183+78.74 | 4.17 | 6.49 RS–0130(24), Widen & Resurf., 2003



▨ Indicates Grass & / or Physical Barrier on Median.

## Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile — 0 1 2 3 4 5 6 7 8 9 10

Divided Highway — Undivided

Shoulder: Width and Type — 10' AC | .14 | 8' AC Shoulder Milled Rumble Strip | 8' AC | .43 | 8' Grv | 8' AC | 8' Grv | 8' AC | 8' (4'AC,4' Grv) | 10' AC | 6.34 (4'AC,4' Grv) 6.51 | 4' Grass | 7.07 | 6' AC | 7.56 (SHLDR MILLED RUMBLE STRIP) .89 | 8' AC | 6' AC | 9.87 ← (8' AC)

Pavement: Width and Type — (12'AC) → 0.04 | 24' AC | 36' AC | 24' AC .19 12' AC | 24' AC | 14' AC | 24' AC | 12' AC | 24' AC | 12' AC (24' AC) | 12' AC | 24' AC | 12' AC (24' AC) | 12' AC | 24' AC | 12' AC | 24' AC | 12' AC | 24' AC | 12' AC | 24' AC

Shoulder: Width and Type — 4' AC | (10' Paint) | (12' Paint) | 2' AC | (Shoulder Milled Rumble Strip) .96 | 0 | .43 8' Grv | 0 | 8' Grv | 0 | 8' (4'AC,4' Grv) | 0 (4'AC,4' Grv) | 0 | 6' AC | 0 (6' AC) | 0 | 8' AC | 0 | 8' AC | 0 | 6' AC | 0 | 6' AC | ← (8' AC)

Median: Width and Type — 10' Painted AC | .949 | 10' Grass (Flush) | .371 | .577 | .773 | .023 | Varies 0–22' Paint | .484 | .49 Centerline Milled Rumble Strip .94 | 0'–12' Painted AC | 0'–12' Paint on AC | 0'–12' Painted AC | 0'–12' Painted AC | 0'–18' Painted AC | 0'–18' Painted AC | 0'–18' Painted AC | 0'–18' Painted AC | 0'–18' Painted AC | 0'–18' Painted AC | 0'–18' Painted AC

Shoulder: Width and Type — 4' AC | (12' Grass) | (12' Grass) | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0

Pavement: Width and Type — 24' AC | .912 | 12' AC | 12' AC | 14' AC | 12' AC | 12' AC (4'AC,4' Grv) | 12' AC | 12' AC | 12' AC | 12' AC | 12' AC | 12' AC

Shoulder: Width and Type — 10' AC | .14 | 2' AC | (Shoulder Milled Rumble Strip) | 8'–12' AC | 8'–12' AC | 8'–10' AC | 6'–10' AC | 6' AC | 6' AC | 6' AC 7.70 7.89 | 8' AC | 6' AC | 6' AC

Number of Traffic Lanes — (1–12') (2–12') .041 | 4 – 12' | (2–12') (1–12') | 3.92 2 – 12' | 2–14' | 2 – 12' | (SHLDR MILLED RUMBLE STRIP) | 9.87 ← (2 – 12')

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) — .127 .279 .403 .504 .721 .866 .166 | .380 .608 .787 | .287 .25 | 12' T. Lns

(Right Side) — All Turning Lanes 12' | .141 .469 .582 | SHOULDER LANE .43

Frontage Road: No. of Lanes, and Width (Right and Left) — .233 .380 .504 .681 .787 .912

Sidewalk: Width and Type (Right and Left) — 4' Conc. G.

Curb and/or Gutter: Type (Right and Left) — .180 AC G. .330 .544 .721 | .270 AC G. .676 | C. G. | C. G.

Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise. — .272 .677 | .767 .883 | .382 .642

Illumination: Type, Location and Number — .011 .184 .326 .382 .440 .541 .714 .781 .832 .258 .787 .066 .250 .462 .754 .804 .831 .891 .934 .997 .152 .318 .345 .626 .022 Low Pressure Sodium 4.91 .251 .273 .668 .706 | Low Pressure Sodium 6.75–7.54 | .138 .173 | .133 .366 | .952

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) — D A 0.01 B 0.43 | A

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) — B 0.62 A 0.93 B 3.14 A 3.49 B 3.65 A 4.07 B 4.99 A 5.48 B 7.97 A 8.15 B 8.44 A 8.57 B

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: — Small Urban (99998)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous — .212 Rolling (2) 3.30 Flat (1)

Speed: 1–Design, 2–Posted — (35 MPH (2)) (Not Posted) .090 | 45 MPH (1) | .892 55 MPH (2), Minimum 40 MPH (2) | .922 55 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing — 0.00 .721 .380 .787

Traffic Stations (Current Year) — B71 0130 00138 | P71 0000 00C2F | B71 0130 00937

HPMS Sections – AADT 2017 — 23,634 | 30,800 | 13,332

HPMS Sections – AADT 2016 — 23,400 | 1.79 | 30,000 | 7.70 | 13,200

HPMS Sections – AADT 2015 — 29,600 | 28,900 | 13,500

Rush Hour Shoulder Lane — 2.35 North bound Shoulder Ln., 6:00–8:00 am, exc. Sat, Sun, & Hol. 4.20

DOD Sections

Census Tracts

Functional Classification — Minor Arterial (4)

National Highway System (NHS) — Not on NHS (0)

Previous Projects: Project No., Date and Limits —
6.49 RS–0130(24), Widen & Resurf., 2003
(STP–0130 (25), Resurf, 1996) — 9.87 →
5.37 ← 6.51 —(RS–0130(16), Widened & Resurf., 1990) ( S–231(1) 1953 ) .91 ← ( S–0130(9) 1967 )
2.33 STP–0130(25), Resurf, 1996 5.36 130B–01–72 (R) 1972 9.90 .93
1.37 130B – 01 – 92, New Constr., 1999 2.33 S–0130(7) 1967 5.41 S–231(1) 1952 ( S–0130(9) 1966 ) →
237+50 9.88 0+00

SCALE: (In Miles) 2" = 1 mile — 0 1 2 3 4 5 6 7 8 9 10

| Date Released |
|---|
| Nov 2000 |
| **Revised** |
| Oct. 01 J.K. |
| Feb. 04 D.B. |
| May 04 D.B. |
| Sept 04 D.B. |
| 7/06 D.B. |
| 2/08 D.B. |
| 9/10 D.B. |
| 2/11 D.B. |
| 2/12 D.B. |
| 9/12 E.P.J. |
| 12/13 EPJ |
| 7/14 D.B. |
| 1/16 EPJ |
| 1/17 EPJ |
| 2/18 D.B. |
| 11/18 D.B. |

# ROAD INVENTORY

# HAWAII RTE 130

## KEA'AU–PAHOA RD., PAHOA–KALAPANA RD.

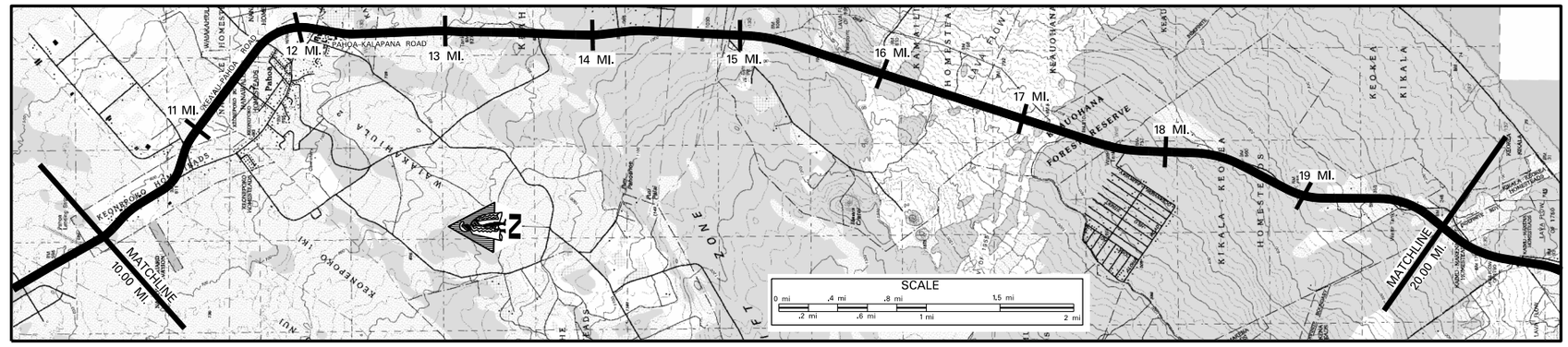
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Total Designated Route Length: 21.639 MILES (a+b)
a. Existing Length: 21.639 MILES
b. Proposed Length: 0.00 MILES
Total Travel Way Length: 21.639 MILES (a+b, less c)
a. Existing Length: 21.639 MILES
b. Temporary Length: 0.00 MILES
c. Length used as T.W. for another Route: NONE MILES (–)

NEEDS STUDY ROUTE NO. _____ FUNCTIONAL CLASSIFICATION _____




SCALE: (In Miles) 2" = 1 mile

**Maintenance Control Sections : Length and Description**
130 B (12.12 Mi.) | End 130–A, Beg. 130–B on Keeau–Pahoa Rd. @ the North E.P. of Pahoa–Kapoho Rd. | 130 A (13.19 Mi.)

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

**Right of Way Width (min.–max.) If varies**: 80' (10.76) | 50' – 110' | 100'–150' (17.28)

**Available Right of Way Width (Needs Study)**: Residential Area | Trees (12.27–12.35) | Clear 1000'/ Grass, Brush, Sugar Cane 10' from Pavement | Trees & Brush (17.23)

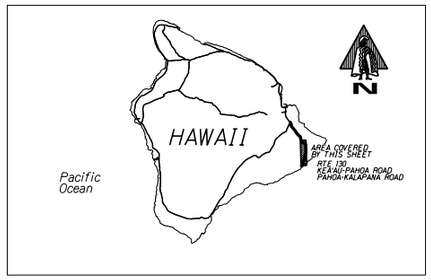
**Right of Way Fence: Type – Right and Left** (SW – Stone Wall): Chainlink Fence (12.27–12.34) | SW (19.03–19.63)

**Control of Access: 1–None, 2–Partial, 3–Full**: None

**Jurisdiction, Transfer Phase No. and Date (C to S or S to C)**: State

**Project No., Type of Construction, and Year Constructed**: (RS–0130(24), Widen & Resurf., 2003) (10.46) | 130A–01–97M Resurfacing 1998 (17.42)

**Project No., Type of Construction, and Year Constructed**: STP–0130(25), Resurf, 1996 (10.47) | RS – 0130(20), New Alignment, 1990 (12.28) | 130A–01–92M, Resurf, 1993 (17.40) | S–0130(12) 1971




**Road Diagram**
* MP = Milepost Signage

ROUTE CONTINUED FROM SHEET #1

Divided Hwy. | Station | Rd to Police | End Divided Hwy. | Divided Hwy. | Road "A" (Rte 134) | Spurs | Kahakai Blvd. | End Divided Hwy. | Post Office Rd. (West) | Homestead Rd. (East) | Divided Hwy. | Beg. Divided Hwy. | Pahoa–Kapoho Rd. (L) (Pahoa Village Rd. (R)) | End Divided Hwy. | Board of Water Supply Tank | Leilani Ave | Malama St. | ALA ILI RD. | Paved Road | Road | Kamaili Road (to Ohlkao) | Upper Puna Rd | Onsele Rd. | Old Kalapana Rd. | Old Kalapana Rd. | Old Kalapana Rd. | Old Kalapana Rd. | Old Kalapana Rd. | Old Kalapana Rd. | Old Kalapana Rd.

10 MP | 11 MP | 12 MP | 13 MP | 14 MP | 15 MP | 16 MP | 17 MP | 18 MP | 19 MP

10.171 mi. | 10.336 mi. | 10.471 mi. | 10.524 mi. | 10.659 mi. | 10.680 mi. | 10.814 mi. | 10.877 mi. | 10.961 mi. | 11.416 mi. | 11.666 mi. | 11.734 mi. | 11.992 mi. | 12.136 mi. | 12.328 mi. | 12.699 mi. | 13.153 mi. | 13.701 mi. | 14.190 mi. | 14.472 mi. | 14.713 mi. | 14.946 mi. | 15.242 mi. | 15.707 mi. | 15.729 mi. | 16.018 mi. | 16.747 mi. | 17.363 mi. | 17.699 mi. | 17.758 mi. | 18.424 mi. | 18.538 mi. | 18.704 mi. | 18.814 mi. | 19.174 mi. | 19.506 mi. | 19.699 mi. | 19.809 mi.

KEA'AU–PAHOA ROAD | PAHOA–KALAPANA ROAD

ROUTE CONTINUED ON SHEET #3

SCALE: (In Miles) 2" = 1 mile

**Divided Highway**

Undivided:
- Shoulder: Width and Type: 8' AC | 3' Gravel | 4' Grass | 0 | 4' Grs. | 6' Dirt | 10' Gravel
- Pavement: Width and Type: 24' AC | 12' AC (24' AC) 12' AC | 24' AC | 12' AC (24' AC) | 20' AC | 22' AC | 24' AC
- Shoulder: Width and Type: 8' AC | 0 | 0 | 8' AC | 0 | 3' Gravel | 4' Grass | 0 | 4' Grs. | 6' Dirt | 10' Gravel

Median:
- Width and Type: 0'–12' Painted AC | 0'–12' Painted AC | 0'–12' Painted AC
- Shoulder: Width and Type: 0 | 0 | 0
- Pavement: Width and Type: 12' AC | 12' AC | 12' AC
- Shoulder: Width and Type: 8' AC | 8' AC | 8' AC

**Number of Traffic Lanes**: 2 – 12' | 2 – 10' | 2 – 11' | 2 – 12'

**Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)**: All Turning Ln's = 12'
**(Right Side)**: 11' T.L. | 11' M.L.

**Frontage Road: No. of Lanes, and Width (Right and Left)**

**Sidewalk: Width and Type (Right and Left)**

**Curb and/or Gutter: Type (Right and Left)**

**Protective Devices: Type, Location and Number** All Metal Rails on Metal Posts unless noted otherwise.

**Illumination: Type, Location and Number**: 3 Low Pressure Sodium | 6 Low Pressure Sodium | 4 Low Pressure Sodium | Low Pressure Sodium

**Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)**: A | B | A

**Superelevation (Range)**

**Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)**: B | A | B | A | B | B | D | C | B | B | C | B | C | B | A | B | C | D | C | B | C | D | C | D | A | C

**Vertical Curve: Crest or Sag, Curve Limits**

**Area and Development**: Small Urban (99998) | Rural (99999)

**Terrain: 1–Flat, 2–Rolling, 3–Mountainous**: Flat (1) | Rolling (2)

**Speed: 1–Design, 2–Posted**: (55 MPH (2) Minimum 40 MPH (2)) | 45 MPH (2) | (55 MPH (2)) | 55 MPH (2) Minimum 40 MPH (2)

**Intersection Control Devices: Type, Location and Cycle Timing**

**Traffic Stations (Current Year)**: B71 0130 00937 | B71 0130 01080 | B71 0130 01316 | B71 0130 01738

**HPMS Sections – AADT 2017**: 13,332 | 7,474 | 4,545 | 3,100

**HPMS Sections – AADT 2016**: 13,200 | 7,400 | 4,500 | 2,200

**HPMS Sections – AADT 2015**: 13,500 | 8,500 | 4,800 | 2,200

**DOD Sections**

**Census Tracts**

**Functional Classification**: Minor Arterial (4) | Major Collector (5)

**National Highway System (NHS)**: On NHS (1) | Not on NHS (0)

**Previous Projects: Project No., Date and Limits**
- S–0130(9), 1967 | RS–0130(20) (New Alignment) 1990
- HWY–H–01–69 | (RS–0132(3) 1986 Widen and Resurf) | RS–SR–0130(19) Resurf 1982
- S–0130(9) 1966 (44+87.95) | County | A–130–01–61 Sect. A (R/W) | ER–4(1) 1957, 59 (0+00 – 207+65.07) | S–130 (12) 1970

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| November 2000 |

| Revised | |
|---|---|
| Sept 02 | J.K. |
| Feb. 04 | D.B. |
| May 04 | D.B. |
| Sept 04 | D.B. |
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

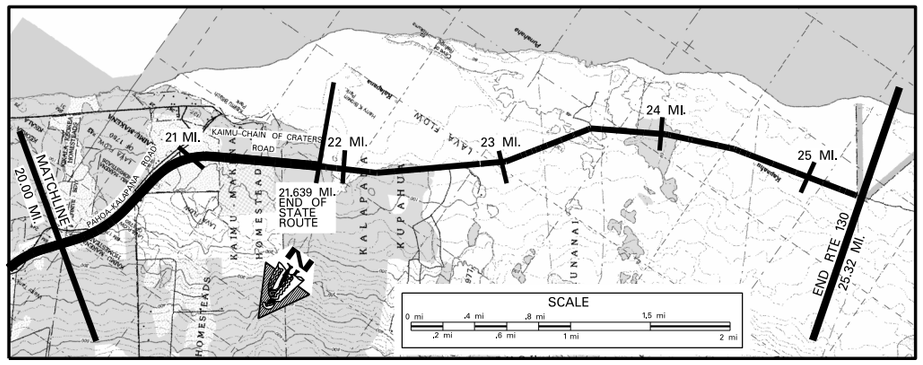
# ROAD INVENTORY
# HAWAII RTE 130
## PAHOA–KALAPANA ROAD, KAIMU–CHAIN OF CRATERS ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE HIGHWAYS PLANNING BRANCH
IN COOPERATION WITH THE U.S. DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

| | | |
|---|---|---|
| Total Designated Route Length: | 21.639 | MILES (a + b) |
| a. Existing Length: | 21.639 | MILES |
| b. Proposed Length: | 0.00 | MILES |
| Total Travel Way Length: | 21.639 | MILES (a + b, less c) |
| a. Existing Length: | 21.639 | MILES |
| b. Temporary Length: | 0.00 | MILES |
| c. Length used as T.W. for another Route: | NONE | MILES (–) |

NEEDS STUDY ROUTE NO. _____ FUNCTIONAL CLASSIFICATION _____




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

130 A ( 13.19 MI. )

Beg. 130 A Same as End Rte 130

**Structure Carrying Road**

Bridges (Over 20'): Length, Type, Capacity and Year Constructed

Vertical Clearance

Horizontal Clearance

**Structure Over Road**

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.–max.) If varies: 100' – 150' | 125' – 580' | 155' | 120' | 155'–170' | 150' | 150' | 140' | 120' | 130' | 100'–110' | 120' | 130'–145' | 145' | 80'

Available Right of Way Width (Needs Study): Trees & Brush | Trees & Brush | Residential | Clear 1000' Lava Rock 10' from E.P.

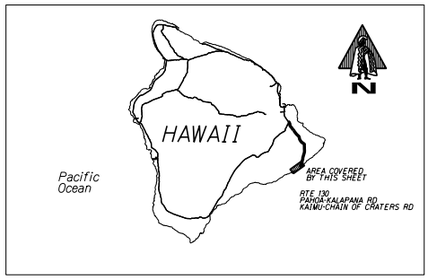
Right of Way Fence: Type – Right and Left: SW | SW | SW | SW | WW | WW

Control of Access: 1–None, 2–Partial, 3–Full: None | None

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): State | County (GIVEN BY STATE OCT. 1, 2014)

Project No., Type of Construction, and Year Constructed: 130A–01–97M 1998 Resurf.

Project No., Type of Construction, and Year Constructed: S–0130(12), 1971 | ER – 9(3) New Alignment, 1980 | ER – 9(3) New Alignment, 1980 | 130A – 01–79M PMS – 0100(8), Unit 3, Resurf, 1978




**Road Diagram**

* MP = Milepost Signage

ROUTE CONTINUED FROM SHEET #2

Old Kalapana Rd | Aliia Rd. | Begin Divided Hwy | Access Rds. to Pahoa–Kalapana Rd | End Divided Hwy | 20 MP | 20.226 mi. | 20.607 mi. | 20.781 mi. | 20.878 mi. | 20.959 mi. | 21.121 mi.

PAHOA–KALAPANA RD | KAIMU–CHAIN OF CRATERS ROAD

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH "IS" VIDEOLOG & "IS" FEATURES DATABASE.

END RTE 130 ON KAIMU–CHAIN OF CRATERS ROAD 300 FT BEFORE 21 MILE POST. 21.639 mi.*

1992 Lava Flow & Road Barricade | 21 MP | 21.696 mi. | 21.82 mi. | Lokelani St., Lava Flow, & Road Barricade | 22 MP | 22.72 mi. | 22.90 mi. | 22.82 mi. | Keone Dr. | 23.13 mi. | Lava Flow Access to Kalapana Bch. Rd. | 23 MP | 23.59 mi. | 23.73 mi. | Road | 24 MP | 24.17 mi. | 24.37 mi. | Coconut Palm Dr., Royal Palm Dr. | 24.49 mi. | 24.59 mi. | Road to Queen's Bath | (24.93 MP) | 24.83 mi. | 24.90 mi. | Cattle Guard | Road | 25.13 mi. | 25.31 mi. | END RTE 130 ON KAIMU–CHAIN OF CRATERS ROAD AT THE N.E. BOUNDARY OF HAWAII VOLCANO NATIONAL PARK NEAR QUEEN'S BATH. 25.32 mi.

KAIMU–CHAIN OF CRATERS ROAD

SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**

Shoulder: Width and Type: 10' Gravel | 10' AC | 10' AC | 10' AC | 6' AC

Pavement: Width and Type: 24' AC | 12' AC | 24' AC | 24' AC | 22' AC

Shoulder: Width and Type: 10' Gravel | 0 | 10' AC | 10' AC | 6' AC

Median: Width and Type: 0' –10' Painted Median

Shoulder: Width and Type: 0

Pavement: Width and Type: 12' AC

Shoulder: Width and Type: 10' AC

Number of Traffic Lanes: 2 – 12' | 2 – 12' | 2 – 11'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)

(Right Side)

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left)

Curb and/or Gutter: Type (Right and Left)

Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise.

Illumination: Type, Location and Number

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62): A | A

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45): C | D | C | B | A | A

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: Rural (99999) | Rural (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: Rolling (2) | Flat (1)

Speed: 1–Design, 2–Posted: 55 MPH (2) Minimum 40 MPH (2) | 45 MPH (2) | Not Posted 35 MPH (2) | 35 MPH (2) | 45 MPH (2) | 35 MPH (2) | 25 MPH (2) | Not Posted 25 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0130 01738 | B71 0130 02080 | B71 0130 02150

HPMS Sections – AADT 2017: 3,100 | 1,200

HPMS Sections – AADT 2016: 2,200 | 1,900

HPMS Sections – AADT 2015: 2,200 | 2,200

DOD Sections

Census Tracts

Functional Classification: Major Collector (5) | Major Collector (5)

National Highway System (NHS): Not on NHS (0) | Not on NHS (0)

Previous Projects: Project No., Date and Limits: S–130 (12), 1971 (2 + 35.88) | County A–130–01–60 (Sec. C) 1964 (91 + 50) | 130A – 01 – 79 M PMS – 0100(8), Unit 3 | S–130(1) 1964 (10 + 52.12)

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| November 2000 | |
| **Revised** | |
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY

# HAWAII RTE 139
# OLD KEA'AU – PAHOA ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 1.185 **MILES**

**a. Survey Length:** 1.185 **MILES**

**b. Proposed Length:** 0.00 **MILES**

**c. Other Length: *** 0.00 **MILES**


SCALE: (In Miles) 10" = 1 mile

0.0 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00

**Maintenance Control Sections : Length and Description**
End 139A same as Begin Route — 139A (1.19 mi.)

**Structure Carrying Road**
- **Bridges (Over 20'): Length, Type, Capacity and Year Constructed** — Continuous Conc. Slab HS–20, 1968
- **Vertical Clearance** — 18'
- **Horizontal Clearance** — 44'

**Structure Over Road**
- **Vertical Clearance**
- **Horizontal Clearance**

**Right of Way Width (min.–max.) If varies** — 80'–85' (0.00–0.30); 80'–130' (0.30–0.96); 90'–140' (0.96–1.18)

**Available Right of Way Width (Needs Study)** — Residential (0.00–0.30); Clear 1000' – Sugar Cane – 6' from Pav't (0.30–1.18)

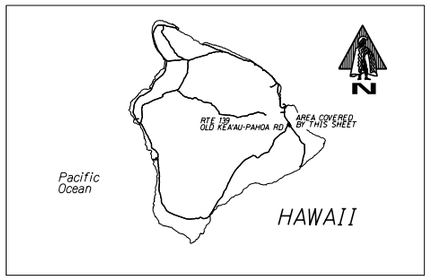
**Right of Way Fence: Type – Right and Left** — Pipe (0.10–0.17); Chain Link / Chain Link (0.67–0.88); Chain Link (0.89–1.18)

**Control of Access: 1–None, 2–Partial, 3–Full** — None

**Jurisdiction, Transfer Phase No. and Date (C to S or S to C)** — 0+50 State 63+15

**Project No., Type of Construction, and Year Constructed** — (RSG–0130(22), 1987); 139A–01–05M, Resurface, 2011

**Project No., Type of Construction, and Year Constructed** — (F–011–2(17), 1987); 130B–01–91, Imp., 1993; STP–0130(25), Resurf., 1996; 130B–01–92, 1999




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**

* MP = Milepost Signage

BEGIN ROUTE 139 ON OLD KEA'AU-PAHOA ROAD AT THE S.E. EDGE OF PAV'T OF VOLCANO ROAD (RTE 11). 0.000 MI.

Spur 0.015 mi. — Driveway 0.057 mi. — Old Volcano Rd. 0.101 mi. — End Divided Hwy 0.174 mi. — Driveway 0.190 mi. — Driveway 0.214 mi. — Kikanla St. 0.400 mi. — Puna Sugar Rd. 0.515 mi. — Begin Divided Hwy 0.607 mi. — Kukula St. 0.706 mi. — Paved Road to Community School 0.818 mi. — End Divided Hwy 0.909 mi. — Paved Road 0.957 mi. — Begin Divided Hwy Nawahi St. (R) (Old Rte 130) 0.994 mi. — Ka'u High School (L) 1.050 mi. — 1.038 mi. — 1.077 mi. — 1.104 mi.

0.069 mi. — 1 MP

OLD KEA'AU–PAHOA ROAD

END ROUTE 139 ON OLD KEA'AU-PAHOA ROAD AT THE N.W. EDGE OF PAV'T OF KEA'AU-PAHOA ROAD (RTE 130). 1.185 MI.*

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE.

END ROUTE DESCRIPTION

SCALE: (In Miles) 10" = 1 mile

0.0 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00

**Divided Highway — Undivided**

- **Shoulder: Width and Type** — 6' AC (0.00–0.04); 10' AC (0.04–0.70); 8' Gravel (0.70–0.96); 4' AC (0.96–1.18)
- **Pavement: Width and Type** — 12' AC; 24' AC; 12' AC; 24' AC; 12' AC
- **Shoulder: Width and Type** — 0; 0; 6' AC (0.32–0.41); 2' AC; 0; 8'–10' AC; 0
- **Median: Width and Type** — 8' Grass (Raised) (0.00–0.09); 10' Painted Median (0.09–0.19); 0.19–0.60; 12' Painted Median (0.60–0.90); 0.90–0.96; 12' Painted Median
- **Shoulder: Width and Type** — 0; 0; 0
- **Pavement: Width and Type** — 12' AC; 12' AC; 12' AC
- **Shoulder: Width and Type** — 0; 2' AC; 8'–10' AC (0.70–0.81); 4' AC

**Number of Traffic Lanes** — 2–12'

**Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)** — 12' TL; 11' TL; 10' TLs; 12' TL; 12' TLs

**(Right Side)**

**Frontage Road: No. of Lanes, and Width (Right and Left)**

**Sidewalk: Width and Type (Right and Left)** — 6' S.W.; 4' SW; 8' SW

**Curb and/or Gutter: Type (Right and Left)** — Curb; Curb; Curb

**Protective Devices: Type, Location and Number** — All Metal Rails on Metal Posts unless noted otherwise.

**Illumination: Type, Location and Number**

**Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)** — E (0.00–0.02); B; A (0.05–0.97); D; A (1.10–1.18)

**Superelevation (Range)**

**Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)** — B; A (0.11–0.18); B; A (0.33–0.78); C (0.78–0.86); A; C (1.10–1.18)

**Vertical Curve: Crest or Sag, Curve Limits**

**Area and Development:** — Rural (99999)

**Terrain: 1–Flat, 2–Rolling, 3–Mountainous** — Rolling (2)

**Speed: 1–Design, 2–Posted** — 25 MPH (2)

**Intersection Control Devices: Type, Location and Cycle Timing** — 0.101 2 Phase; 0.706 2 Phase

**Traffic Stations (Current Year)** — B71 0139 00070

**HPMS Sections – AADT 2017** — 7,100

**HPMS Sections – AADT 2016** — 7,600

**HPMS Sections – AADT 2015** — 0.00–1.185: 8,700

**DOD Sections**

**Census Tracts**

**Functional Classification** — Major Collector (5)

**National Highway System (NHS)** — Not On NHS (0)

**Previous Projects: Project No., Date and Limits**
- STP–0130(25), Resurf., 1996 (0.20–1.18)
- (RSG–0130(22), 1987) 0.05–0.18; 130B–01–83M, (R), 1983
- S–0130(2), 1966; S–130(7), 1967 (0.33–0.96)

SCALE: (In Miles) 10" = 1 mile

0.0 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00 1.10 1.20 1.30 1.40 1.50 1.60 1.70 1.80 1.90 2.00

| Date Released |
|---|
| June 1999 |

| Revised | |
|---|---|
| 7/04 | D.B. |
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | EPJ |
| 12/13 | EPJ |
| 7/14 | D.B. |
| 1/16 | EPJ |
| 1/17 | EPJ |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY

# HAWAII RTE 160
# KE–ALA–O–KEAWE ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

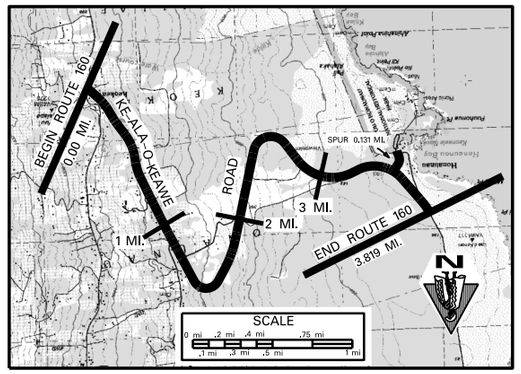
**Total Route Length:** 3.95 miles

**a. Survey Length:** 3.819 miles

**b. Proposed Length:** 0.00 miles

**c. Other Length: *** 0.131 miles

* SPUR LENGTH




SCALE: (In Miles) 2" = 1 mile

**Maintenance Control Sections : Length and Description**

BEGIN 160A ON KE–ALA–O–KEAWE RD. 25' W. OF CENTERLINE INTER. W/ MAMALAHOA HWY — 160 A (3.82 MI.) — END 160A SAME AS ROUTE

160 03 (0.13 MI.)

**Structure Carrying Road**

- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

**Structure Over Road**

- Vertical Clearance
- Horizontal Clearance

**Right of Way Width (min.–max.) If varies:** VARIES 80' – 140'

**Available Right of Way Width (Needs Study):** LARGE TREES & HEAVY GRASS, CUT SLOPES (1.46) CLEAR 1000' BRUSH W/ SMALL TREES 5'–15' FROM EDGE OF PAV'T

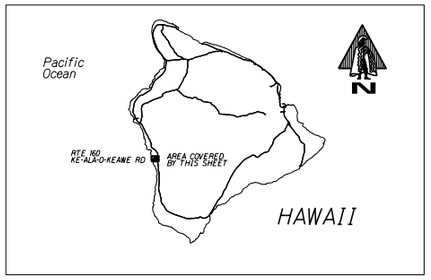
**Right of Way Fence: Type – Right and Left:** (1.23) FENCE (R) (1.70) FENCE (L) & (R) WIRE ON WOOD 25' FROM EDGE OF PAV'T (3.12) FENCE (L) (3.95)

**Control of Access: 1–None, 2–Partial, 3–Full:** NONE — (NONE)

**Jurisdiction, Transfer Phase No. and Date (C to S or S to C):** STATE — (STATE)

**Project No., Type of Construction, and Year Constructed**

**Project No., Type of Construction, and Year Constructed:** 160A–01–96M, RESURFACE, 1998 — (160A–01–96M, RESURFACE, 1998)




**Road Diagram**

* MP = Milepost Signage

BEGIN RTE 160 ON KE–ALA–O–KEAWE RD AT N.W. EDGE OF PAVEMENT OF MAMALAHOA HWY (RTE 11). 0.000 MI.

POST OFFICE 0.037 MI. — PAINTED CHURCH RD. 1.001 MI. — CULVERT RODEO RD. (TO BOTANICAL GARDENS) 1.077 MI. — CULVERT 1.236 MI. — ROAD(R) RODEO RD.(L) 1.311 MI. — 1 MP — 1.433 MI. — 2 MP — 2.010 MI. 1.999 MI. — LOOKOUT RDS. 2.274 MI. 2.732 MI. — 3 MP — 2.997 MI. — PAVED ROAD 3.150 MI. — BEGIN DIVIDED 3.278 MI. — 3.491 MI. 3.460 MI. — END DIVIDED HONAUNAU VILLAGE ROUGE CITY OF REFUGE 3.480 MI. — 3.678 MI. — 3.692 MI.

KE–ALA–O–KEAWE ROAD

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE.

END RTE 160 ON KE–ALA–O–KEAWE RD. AT END OF STATE HWY SIGN. 1800' WEST FROM ACCESS TO CITY OF REFUGE. 3.819 MI.*

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE.

BEG. CITY OF REFUGE SPUR ON ACCESS RD. TO CITY OF REFUGE AT THE SOUTHWEST EDGE OF PAVEMENT OF KE–ALA–O–KEAWE ROAD. 0.000 MI.

PAVED RD. 0.113 MI. — RTE 163

END CITY OF REFUGE SPUR ON ACCESS RD. TO CITY OF REFUGE AT THE CENTERLINE OF MONUMENT (0.13 MI. FROM KE–ALA–O–KEAWE RD.) 0.131 MI.*

SCALE: (In Miles) 2" = 1 mile

**Divided Highway — Undivided**

- Shoulder: Width and Type — 4' AC
- Pavement: Width and Type — 24' AC; 2.80; 24' BST; 14' AC; 24' AC — (4' AC) — (24' AC)
- Shoulder: Width and Type — 4' AC; 0; 4' AC — (4' AC)
- Median: Width and Type — 0–20' PAINTED AC; .278; .692
- Median Barriers:
- Shoulder: Width and Type — 0
- Pavement: Width and Type — 14' AC
- Shoulder: Width and Type — 4' AC

**Number of Traffic Lanes:** 2–12' — 2–14' — 2–12' — (2–12')

**Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side):** 12' TURNING LANES .485 .556 — (N/A)

**(Right Side):** .388 .541 — (N/A)

**Frontage Road: No. of Lanes, and Width (Right and Left)**

**Sidewalk: Width and Type (Right and Left):** .386 AC C. .673 — N/A — AC C. .784 .840 .195 — (N/A) — .056 .056 AC C.

**Curb and/or Gutter: Type (Right and Left):** .022 AC C. .053 .293 .287 .492 .460 AC C. .454 .744 .325 .287 .596 .218 AC C. .214 .394 .32 .430 .478 .623 AC C. .075 .646 .821 AC C. .268 .072 .391 .386 METAL ON METAL — (METAL ON METAL)

**Protective Devices: Type, Location and Number** — All Metal Rails on Concrete Posts unless noted otherwise.

**Illumination: Type, Location and Number**

**Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)):** FA 1.39 D 1.60 A 2.43 D 2.70 A 2.81 B 3.07 AB 3.34 A — A D E

**Superelevation (Range)**

**Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)):** D .088 C .40 D .73 C .144 D 3.36 u .760 D 3.70 C 1.99 D 4.20 E 2.86 D 3.35 B 3.81 — (D) — B

**Vertical Curve: Crest or Sag, Curve Limits**

**Area and Development:** RURAL (99999) — (RURAL (99999))

**Terrain: 1–Flat, 2–Rolling, 3–Mountainous:** ROLLING (2) — (ROLLING (2))

**Speed: 1–Design, 2–Posted:** 45 MPH (MIN. 30 MPH) (2) — 35 MPH(2) .775 — (N/A)

**Intersection Control Devices: Type, Location and Cycle Timing**

**Traffic Stations (Current Year):** B71 0160 00000 — B71 0160 00278 — (B71 0163 00000)

**HPMS Sections – AADT 2017:** 1,900 — 1,100 — (1,100)

**HPMS Sections – AADT 2016:** 0.00 — 1,400 — 1.08 — 960 — 920

**HPMS Sections – AADT 2015:** 1,300 — 900 — 830

**DOD Sections**

**Census Tracts**

**Functional Classification:** MAJOR COLLECTOR (5) — (MAJOR COLLECTOR (5))

**National Highway System (NHS):** NOT ON NHS (0) — (NOT ON NHS (0))

**Previous Projects: Project No., Date and Limits:** RS–0160(6) RESURFACE 1980 — 2.80 — S–0160(1), 1961 — 1.01 — 23 – 32 — S–0160(2) UNIT 1, 1961 — 3.16 — S–0160(2) UNIT 2, 1961 — (S–0160(2) UNIT 2, 1961)

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| OCT. 05, DB | |
| **Revised** | |
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY

# HAWAII RTE 190
# MAMALAHOA HIGHWAY

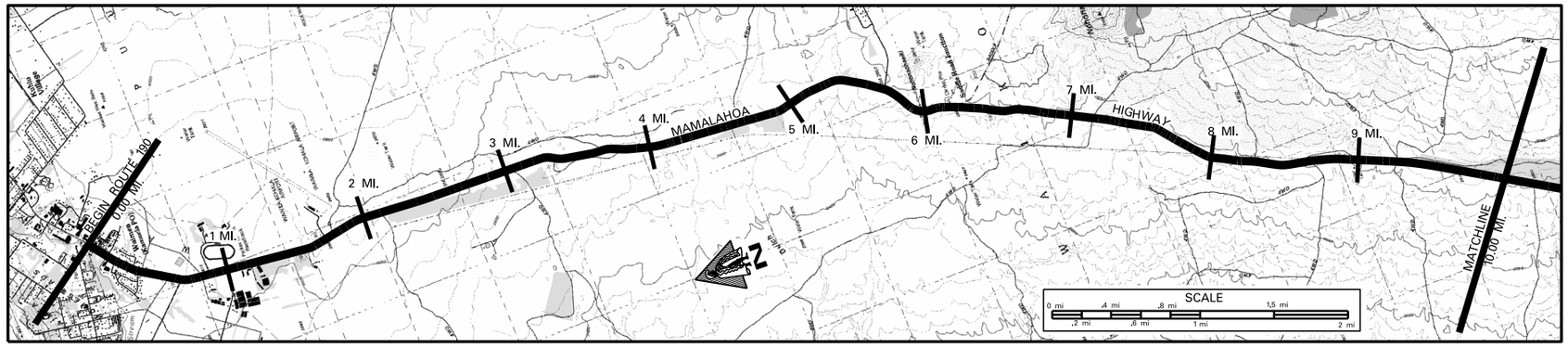
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 38.965 miles
- a. **Survey Length:** 38.965 miles
- b. **Proposed Length:** 0.00 miles
- c. **Other Length:** * 0.00 miles

*



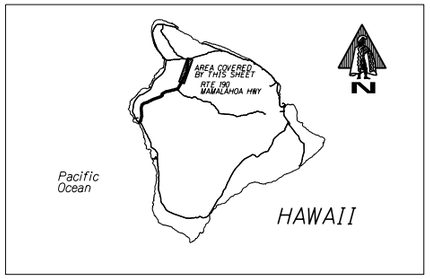

SCALE: (In Miles) 2" = 1 mile

**Maintenance Control Sections : Length and Description**
- 1.20 END 190 E, 0.05 MI. NORTH OF WAIMEA–KOHALA AIRPORT ROAD — 190 E (5.02 MI.)
- 5.22 END 190 D – BEGIN 190 E ON MAMALAHOA HIGHWAY 100' NORTH OF SADDLE ROAD — 190 D (7.26 MI.)

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: SLAB 1930, H–15 (21'); 3 PLATE CULVERTS 1980, HS–20 (37')
- Vertical Clearance
- Horizontal Clearance: 24'; 40'

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

- Right of Way Width (min.–max.) If varies: 70'; 2.42 100'–145'; 3.43 80'–90'; 3.76 100'–145'
- Available Right of Way Width (Needs Study): RESIDENTIAL, FARMS, RANCHES; 1.20 1000' CLEAR – PASTURES – 10'–15' FROM PAVEMENT; 8.23 CLEAR 1000' – PASTURELAND W/ LAVA ROCK AND SOME TREES
- Right of Way Fence: Type – Right and Left: 1.20 WIRE ON WOOD – 10' FROM PAVEMENT; 0.15 WIRE ON WOOD – 10' FROM PAVEMENT
- Control of Access: 1–None, 2–Partial, 3–Full: NONE
- Jurisdiction, Transfer Phase No. and Date (C to S or S to C): COUNTY; 1.20 PHASE 2 – COUNTY TO STATE (RS–0190 (8), 1988 (R)); STATE
- Project No., Type of Construction, and Year Constructed
- Project No., Type of Construction, and Year Constructed: (STP–019–1(22), 2000 RESURF, IMPRV, ALSO SEE RTE 19)); 0.00 WDRC 12(1), 1947; 1.00 190E–01–98M, RESURF., 1999; 4.70 190DE–01–99M, 2000 (RESURF.); 9.76




**Road Diagram**

* MP = Milepost Signage

BEGIN RTE 190 ON MAMALAHOA HIGHWAY AT THE SOUTHERLY EDGE OF PAVEMENT OF MAMALAHOA HIGHWAY AND LINDSEY ROAD (RTE 19). 0.000 MI.

Key points: WAIMEA MID. SCHL. DRIVEWAY; END DIV. 0.387; BEG. DIV. 0.065; AHULI CIRCLE & KAMOOLOA RD.; U.S. POST OFFICE & BEG. DIVIDED; BEG. DIV. AU LN; PUU OPELU RD ENT. TO PARKER RANCH; PARKER RANCH HQ; ROAD TO PARKER RANCH; ALA 'OHIA BLVD; STATE TREE NURSERY; TELEM. STA. 190010; END ST. FARM ROAD; 1.081 MP; FORMERLY END OF SU 190; PAVED ROAD 1.555 MI.; WAIMEA–KOHALA AIRPORT ROAD; KAMAKOA BR. #1 ROAD CULVERT; ROAD TO QUARRY WEST HAWAII CONCRETE; SADDLE ROAD (RTE 200); KAMAKOA BR. #2; ROAD

1.004 BEGIN ST. HWY SIGN (+)
1.005 END ST. HWY SIGN (–)

PAVED RD.

MAMALAHOA HWY

0.053 MI. 0.391 MI. 0.529 MI. 0.675 MI. 0.868 MI. 0.829 MI. 0.994 MI. 1.000 MI. 1.114 MI. 1.200 MI. 1.555 MI. 1.702 MI. 2.019 MI. 3.000 MI. 4.007 MI. 4.523 MI. 4.649 MI. 4.996 MI. 5.681 MI. 5.974 MI. 6.232 MI. 7.013 MI. 7.556 MI. 7.981 MI. 8.964 MI. 8.983 MI. 9.950 MI.

CONTINUED ON SHEET #2.

SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**
- Shoulder: Width and Type: (10'–10' AC) (8'–3' AC); 25' GRASS
- Pavement: Width and Type: (33' AC); 22' AC (11' AC); 22' AC
- Shoulder: Width and Type: 15' GRASS
- Median: Width and Type: (10'–6' PAINTED AC) (10'–9' PAINTED AC); (10'–9' PAINTED AC)
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type: (11' AC)
- Shoulder: Width and Type: (5' AC)

- Number of Traffic Lanes: (2–11') (1–11'); 2–11'; 2–12'; 2–11'
- Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 11' T.L.; 10' T.L.; (2–10')
- (Right Side)
- Frontage Road: No. of Lanes, and Width (Right and Left)
- Sidewalk: Width and Type (Right and Left): 4' C. S.W.; .051; .000 8' C. S.W. .029; .059 8' C. S.W. .173
- Curb and/or Gutter: Type (Right and Left): C. C&G; .061; C. C&G.; C. C&G.
- Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise.
- Illumination: Type, Location and Number: MV
- Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)
- Superelevation (Range)
- Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)
- Vertical Curve: Crest or Sag, Curve Limits
- Area and Development: SMALL URBAN (99998); RURAL (99999)
- Terrain: 1–Flat, 2–Rolling, 3–Mountainous: FLAT (1); ROLLING (2)
- Speed: 1–Design, 2–Posted: 35 MPH (2); 50 MPH (2)
- Intersection Control Devices: Type, Location and Cycle Timing
- Traffic Stations (Current Year): P71 0190 00107; B71 0190 00171; B71 0190 00900
- HPMS Sections – AADT 2017: 6,600; 6,300; 5,900
- HPMS Sections – AADT 2016: 6,500; 7,700; 5,900
- HPMS Sections – AADT 2015: 6,300; 6,000; 5,300
- DOD Sections
- Census Tracts
- Functional Classification: MINOR ARTERIAL (4)
- National Highway System (NHS): NOT ON NHS (0)
- Previous Projects: Project No., Date and Limits: WDRC 12(1) 1947; RS–0190(7), RESURF, & REALIGN., 1987; WDRC 12(1) 1948; RS–0190(8) 1988, (R); RS–0190(5), 1980; 19 DE–01–68; COUNTY; RS–0190(2), 1979; F–10(6), 1953; FAP 10–C(1), 1938; 277 + 00; 499 + 00

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| OCT 05, | D.B. |
| **Revised** | |
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

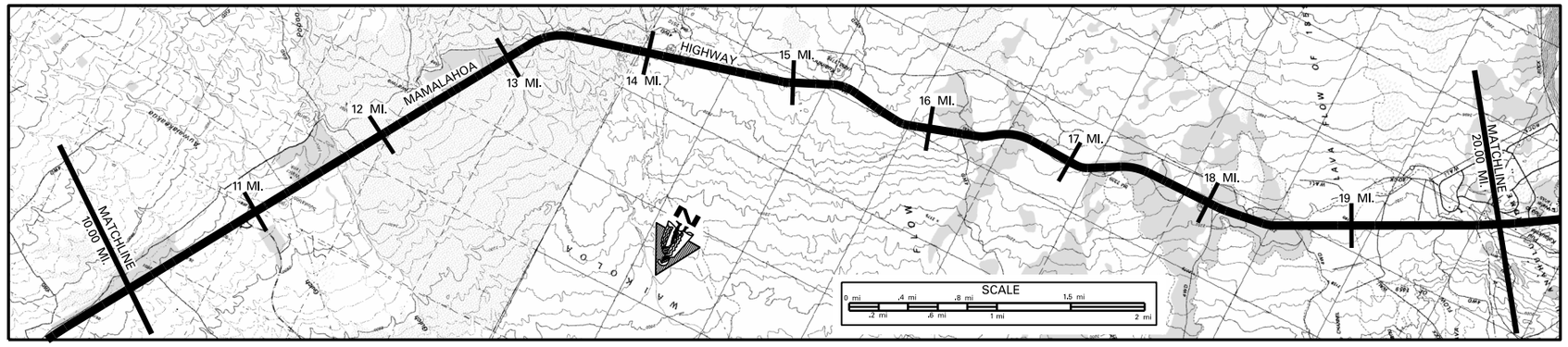
# ROAD INVENTORY
# HAWAII RTE 190
# MAMALAHOA HIGHWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 38.965 miles
**a. Survey Length:** 38.965 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 190 D (7.26 MI.); END 190 C – BEGIN 190 D ON MAMALAHOA HIGHWAY, 2270' SOUTH OF THE SOUTH END OF KEAMUKU BRIDGE (13.48); 190 C (7.87 MI.)

**Structure Carrying Road**

Bridges (Over 20'): Length, Type, Capacity and Year Constructed: PRESTRESSED CONCRETE GIRDER, HL-93, 2001 (11.04); SLAB 1940, H-15 (13.06)

Vertical Clearance: 133' (11.04); 119' (11.72); 23' (13.06)

Horizontal Clearance: 40' (11.04); 40' (11.72); 32' (13.06)

**Structure Over Road**

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.–max.) If varies: 100' – 145'; 60' – 150'

Available Right of Way Width (Needs Study): CLEAR 1000' – PASTURELAND W/ LAVA ROCK AND SOME TREES; CLEAR 1000', LAVA ROCK, GRASS, TREES – 10' FROM PAVEMENT (19.87)

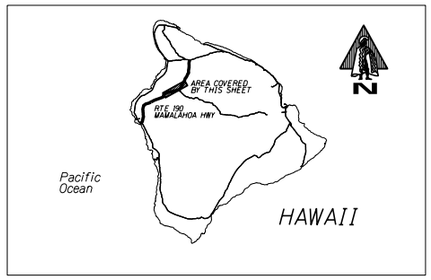
Right of Way Fence: Type – Right and Left: WIRE ON WOOD 10' FROM PAVEMENT (12.96); WIRE ON WOOD 10' FROM PAVEMENT (12.96); WIRE ON WOOD 10' FROM PAVEMENT (19.87); WIRE ON WOOD 10' FROM PAVEMENT (19.87)

Control of Access: 1–None, 2–Partial, 3–Full: NONE

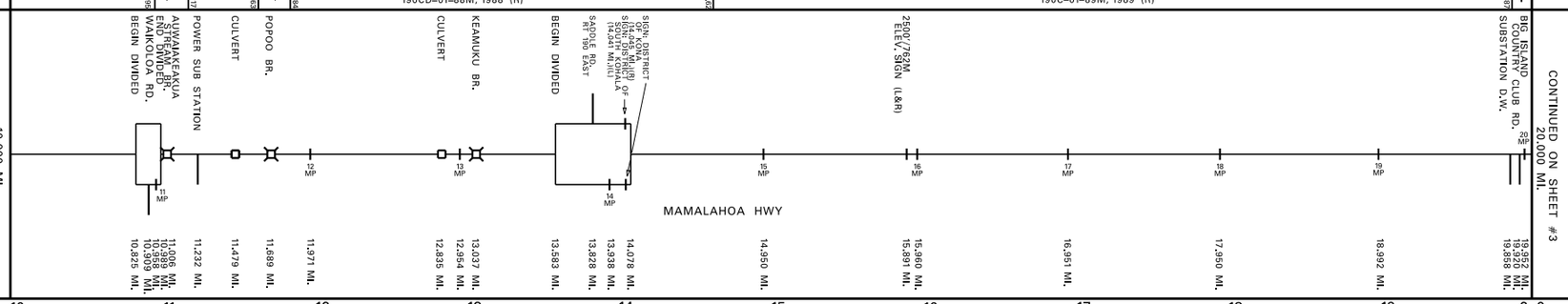
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE

Project No., Type of Construction, and Year Constructed: (BR-0190(13), 2001 BRIDGE REPLACEMENT) (10.95); ER-15(22) EMER. ROCKFALL REPAIRS, 2011 (12.04); 190BC-02-06M, PVMT. PREVENT. MAINT., 2009 (16.43); (19C-01-70, (RESURF, & REHAB,), 1971) (19.87)

Project No., Type of Construction, and Year Constructed: 190CD-01-88M, 1988 (R) (14.67); 190C-01-89M, 1989 (R)




**Road Diagram**
* MP = Milepost Signage




SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**

Shoulder: Width and Type: 4' AC; 4'–5' AC; 4' DIRT

Pavement: Width and Type: 22' AC; 14' AC; 21' AC; 18' AC; 22' AC

Shoulder: Width and Type: 4' AC; 0; 4'–5' AC; 0; 5' DIRT

Median: Width and Type: (0–12' PAINTED MEDIAN); 0–12' PAINTED MEDIAN

Median Barriers:

Shoulder: Width and Type: 0; 0

Pavement: Width and Type: 17' AC

Shoulder: Width and Type: (2–10.5') 4'–5' AC

Number of Traffic Lanes: 2–11'; 2–10.5'; 2–9'; 2–11'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)

(Right Side)

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left): MCB

Curb and/or Gutter: Type (Right and Left): MCB; AC G-831

Protective Devices: Type, Location and Number (All Metal Rails on Metal Posts unless otherwise noted. MCB = Metal on top of Concrete Barrier.)

Illumination: Type, Location and Number: MCB

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62): A; DAD; A; B; A; B; A; B; A

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45): C; B; C; B; A; C; B; C; B; C; B; C; B; C; B; A; B; C; D; C; B; A; B; A; B; C; D; C; B; A; B; A; B

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)

Speed: 1–Design, 2–Posted: 50 MPH (2); 50 MPH (2); 50 MPH (2) – MINIMUM 40 MPH; 35 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0190 00900; B71 0190 01380

HPMS Sections – AADT 2017: 5,900; 5,800

HPMS Sections – AADT 2016: 5,900; 6,000

HPMS Sections – AADT 2015: 5,300; 5,200

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

National Highway System (NHS): NOT ON NHS (0)

Previous Projects: Project No., Date and Limits: RS-0190(8), 1988 (R) (10.76); 190CD-01-88M, 1988 (R) (13.25); 190C-01-70 (RESURF & REHAB), 1971 (15.79); FAP 10-C(1), 1938 (13.36); (13.62); FAP E-10B, 1932 (16.45); (647 + 00); FAP 10-A, 1932

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| OCT. 05, D.B. |

| Revised | |
|---|---|
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

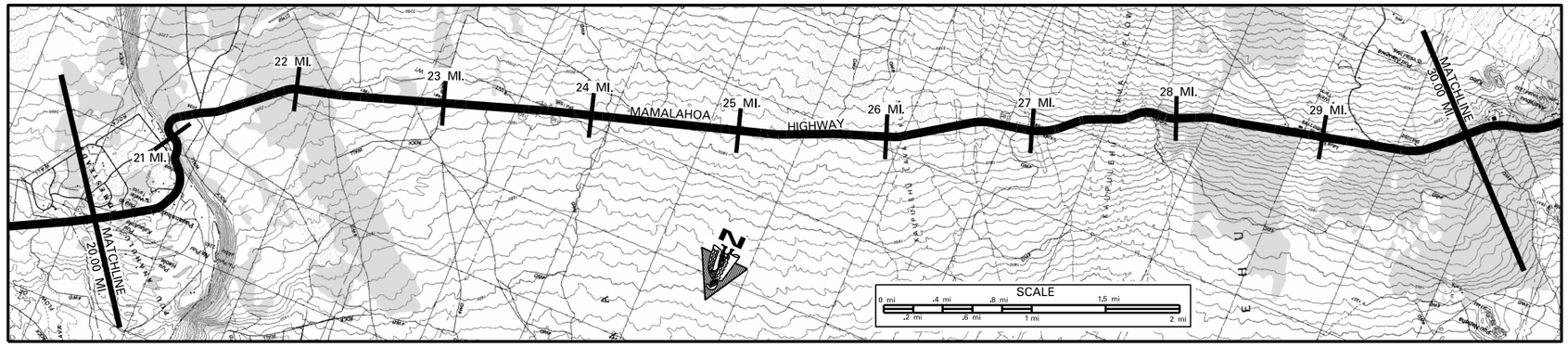
# ROAD INVENTORY
# HAWAII RTE 190
# MAMALAHOA HIGHWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 38.965 miles
**a. Survey Length:** 38.965 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*



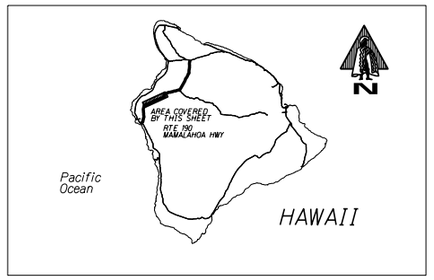

SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description
190 C (7.87 MI.) — END 190 B – BEGIN 190 C ON MAMALAHOA HWY, AT THE CENTERLINE OF PUUWAAWAA RANCH ROAD — 190 B (13.91 MI.)

Structure Carrying Road
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: (CLEAR 1000' LAVA ROCK, GRASS, TREES, – 10' FROM PAVEMENT) 20.02–24.74; 60'–150'; (DRAPE WIRE MESH) 28.36; 80'–217'; (DRAPE WIRE MESH)
Available Right of Way Width (Needs Study): 20.02–24.74 (RESIDENTIAL AREA); 1000' CLEAR, LAVA ROCK, W/ BRUSH, GRASS – 10' FROM PAVEMENT; (CONC. WALL) 27.25–28.36 BRUSH, GRASS, TREES; 28.36–29.69 BRUSH, GRASS, & LARGE TREES
Right of Way Fence: Type – Right and Left: 20.66–21.05 (TIE BACK RETAINING WALL); (WIRE ON WOOD – 10' FROM PAVEMENT); STONE WALL 8' FROM PAVEMENT; 26.66 WIRE ON WOOD 16–20' FROM PAVEMENT; 28.57; CRM WALL; CRM WALL; CRM WALL 29.51–29.69
Control of Access: 1–None, 2–Partial, 3–Full: NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE
Project No., Type of Construction, and Year Constructed: (STP–0190(016), DRAINAGE, 2018) 20.96–21.12; 21.12–27.98 380 + 00; 190B–02–04M, RESURFACE, 2008; 49 + 50 27.80–27.95; ER–15(22) EMER. ROCKFALL REPAIRS, 2011
Project No., Type of Construction, and Year Constructed: 190BC–02–06M, PVMT. PREVENT. MAINT., 2009; 21.12–21.36 380 + 50; 190BC–01–90M (RESURFACE)1991; 27.36–27.55 (190B–01, 1971); (STP–0100(31) – GUARDRAIL IMPROVEMENTS, 1994) 29.24–29.40




**Road Diagram**
* MP = Milepost Signage

CONTINUED FROM SHEET #2 — 20.000 MI.

PAVED RD. PUU LANI DR. (20.197 MI.); PUU WAAWAA RANCH RD. (20.955 MI.); POWER SUB-STATION (21.315 MI.); MAMALAHOA HWY; TRIG. STATION (27.071 MI.); SCENIC LOOKOUT (27.605 MI.); HUALALAI RANCH ROAD (28.940 MI.)

MP: 20, 21, 22, 23, 24, 25, 26, 27, 28, 28.5, 29, 29.5, 30

CONTINUED ON SHEET #4 — 30.000 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided
- Shoulder: Width and Type: 4' DIRT; 3' AC; 7' AC; 28.42; 7' GRAVEL
- Pavement: Width and Type: 22' AC; 21.36; 20' AC; 27.56; 22' AC
- Shoulder: Width and Type: 5' DIRT; 3' AC; 4' AC; 28.42; 7' GRAVEL
- Median: Width and Type
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

Number of Traffic Lanes: 2–11'; 21.36; 2–10'; 27.56; 2–11'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left): .000–.040 (AC SWALE)
Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise. .000–.728 CRM WALL
Illumination: Type, Location and Number
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)): A; 20.26 BA; 20.87 CA; 21.18 D; 21.47 AB; 21.82 A; 22.20 B; AB; 26.11 A; 27.29 BA; 27.71 BA; 28.16 B; A
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)): B; 20.10 A; 20.38 B; 20.76 D; 20.93 C; 20.96 A; 21.13 B; 21.31 C; 21.61 B; 21.86 A; 22.06 B; 22.47 C; 22.71 B; 22.82 C; 23.05 B; 23.24 C; 23.39 B; 23.59 A; 23.79 B; 24.03 A; 24.21 B; 24.37 A; 24.63 C; 24.72 B; 25.38 A; 25.62 B; 26.11 A; 26.26 B; 26.42 A; 26.68 B; 27.03 C; 27.41 B; 27.60 C; 28.40 B; 28.86 C
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)
Speed: 1–Design, 2–Posted: 35 MPH (2); .2262; 50 MPH (2); .370; 50 MPH (2); 50 MPH (2) (MINIMUM 40 MPH)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): 871 0190 01380
HPMS Sections – AADT 2017: 5,800
HPMS Sections – AADT 2016: 6,000
HPMS Sections – AADT 2015: 5,200
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (4)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits: 27.41 HES–0190(9), IMPROV.) 1991; 28.73 190B–01–91M (R) 1992; F–10(5), 1956; F–10(5), 1954; 20.44 190BC–01–90M (RESURFACE)1991; 27.36; 28.39; 8 + 81; 405 + 50; 19C–01–70 (RESURF. & REHAB.), 1971; 21.28–21.30; 190B–01–71 (RESURFACE) 1971; (FAP 10–A, 1933)—28.30; .39; 28.73—(FAP 10–A, 1932); F 10–A, 1932; 28.57; 397 + 16; 42 + 50

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| OCT. 05, D.B. | |
| **Revised** | |
| 7/06 | D.B. |
| 4/09 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY

# HAWAII RTE 190
# MAMALAHOA HWY., PALANI RD.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

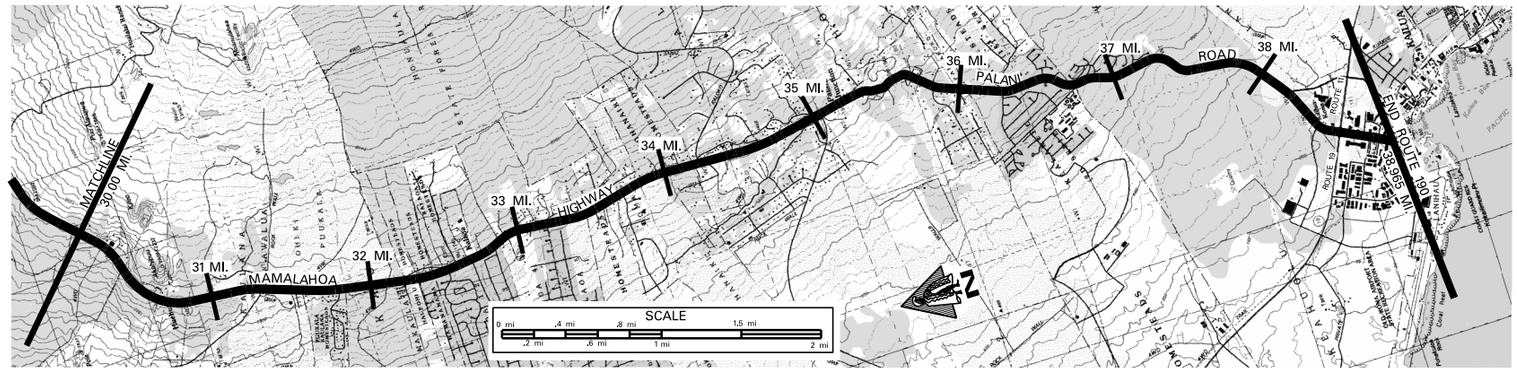
**Total Route Length:** 38.965 miles

a. **Survey Length:** 38.965 miles

b. **Proposed Length:** 0.00 miles

c. **Other Length:** * 0.00 miles

*




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description — 190 B (13.91 MI.) — BEGIN 190 B ON MAMALAHOA HWY AT THE CENTERLINE OF FASC 180

Structure Carrying Road: Bridges (Over 20'): Length, Type, Capacity and Year Constructed; Vertical Clearance; Horizontal Clearance

Structure Over Road: Vertical Clearance; Horizontal Clearance

Right of Way Width (min.–max.) If varies: 80'–217' / 40'–60'

Available Right of Way Width (Needs Study): BRUSH, GRASS & LARGE TREES / RESIDENTIAL AREA

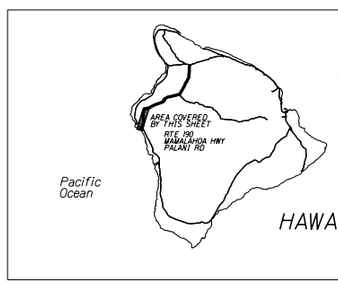
Right of Way Fence: Type – Right and Left: DRAPE WIRE MESH / STONEWALL 4'-8" FROM PAVEMENT / STONEWALL 4'-8" FROM PAVEMENT

Control of Access: 1–None, 2–Partial, 3–Full: NONE

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE / COUNTY

Project No., Type of Construction, and Year Constructed: EP-15(22) EMEC. ROCKFALL REPAIR, 2011 / STP-0100(31) – GUARDRAIL IMPRV. 1994 / (190B-02-91, (IMPRV.), 1993) / STP-0190(015),(R),2015

Project No., Type of Construction, and Year Constructed: 190B-01-91M, (R), 1992 / 190B-01-91M, (R), 1992




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**

* MP = Milepost Signage

30.000 MI. CONTINUED FROM SHEET #3

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE. END RTE 190 ON PALANI ROAD AT THE NORTHEAST EDGE OF PAV'T OF KUAKINI HWY. 38.965 MI.*

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided:

- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type
- Median: Width and Type
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

Number of Traffic Lanes

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)

(Right Side)

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left)

Curb and/or Gutter: Type (Right and Left)

Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise.

Illumination: Type, Location and Number

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999) / SMALL URBAN (99998)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2) / FLAT (1)

Speed: 1–Design, 2–Posted: 50 MPH (2) / 50 MPH (2) (MINIMUM 40 MPH) / 45 MPH (2) / 35 MPH (2) / 25 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0190 01380 / B71 0190 03266 / B71 0190 03444 / B71 0190 03660 / B71 0190 03713 / B71 0190 03849 / B71 0190 03863

HPMS Sections – AADT 2017: 5,800 / 10,600 / 17,900 / 13,800 / 18,700 / 11,615 / 17,800

HPMS Sections – AADT 2016: 6,000 / 9,100 / 17,700 / 14,100 / 19,400 / 11,500 / 16,300

HPMS Sections – AADT 2015: 5,200 / 10,200 / 13,300 / 11,000 / 13,500 / 8,700 / 11,800

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4) / MAJOR COLLECTOR (5)

National Highway System (NHS): NOT ON NHS (0)

Previous Projects: Project No., Date and Limits: F-10(5), 1956 / 190B-02-71, RESURF., 1971 / F-10(5), 1954 / 190B-01-86M, (R) 1986 / COUNTY TO STATE – PHASE 3

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| OCT. 05 | D.B. |

| Revised | |
|---|---|
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

ROAD INVENTORY

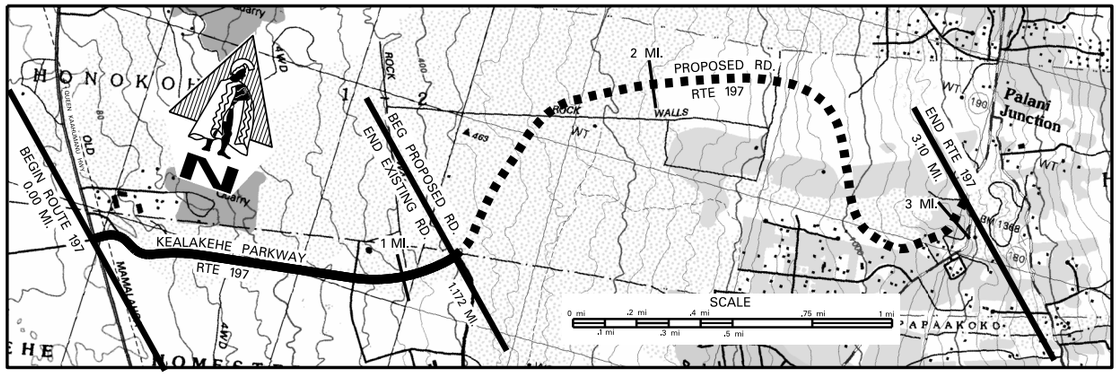
# HAWAII RTE 197
# KEALAKEHE PARKWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 3.10 miles
- a. Survey Length: 1.172 miles
- b. Proposed Length: 1.928 miles
- c. Other Length: * 0.00 miles

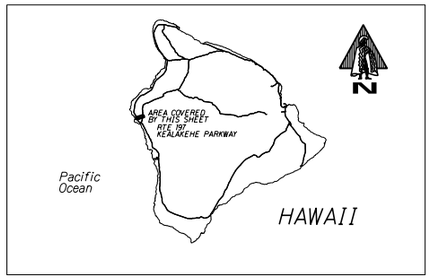



SCALE: (In Miles) 4" = 1 mile

Maintenance Control Sections : Length and Description

Structure Carrying Road: Bridges (Over 20'): Length, Type, Capacity and Year Constructed
Structure Carrying Road: Vertical Clearance
Structure Carrying Road: Horizontal Clearance
Structure Over Road: Vertical Clearance
Structure Over Road: Horizontal Clearance

Right of Way Width (min.–max.) If varies
Available Right of Way Width (Needs Study)
Right of Way Fence: Type – Right and Left
Control of Access: 1–None, 2–Partial, 3–Full
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE
Project No., Type of Construction, and Year Constructed
Project No., Type of Construction, and Year Constructed




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**
* MP = Milepost Signage

BEGIN RTE 197 ON KEALAKEHE PARKWAY AT THE NORTHEAST EDGE OF PAVEMENT OF QUEEN KAAHUMANU HWY (RTE 19). 0.000 mi.

BEGIN DIVIDED 0.045 mi.
KAMANU ST. (L) 0.286 mi.
FUTURE RD. (L & R) 0.577 mi.
ANE KEOHOKALOLE HWY (L & R) RD TO WEST HAWAII CIVIC CENTER (L) 0.717 mi.
FUTURE RD. (L) 0.839 mi.
1.007 mi.

KEALAKEHE PARKWAY

END EXISTING ROAD (BEGIN PROPOSED ROAD) @ CENTERLINE OF KEANALEHU DRIVE (RIGHT). 1.172 mi.*

PROPOSED ROAD

END RTE 197 ON PROPOSED ROAD AT SOUTH EDGE OF PAVEMENT OF PILANI ROAD. 3.10 mi.

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH 'TS VIDEOLOG & 'TS FEATURES DATABASE.

END ROUTE DESCRIPTION 0.00 mi.

SCALE: (In Miles) 4" = 1 mile

Divided Highway — Undivided:
- Shoulder: Width and Type: 12' AC (0.27) | 2' AC (0.670) | 0'–14' AC (1.07) | 0
- Pavement: Width and Type: (24' AC) | 12' AC
- Shoulder: Width and Type: (12' AC) | 0 | 3' AC

Divided Highway:
- Median: Width and Type
- Median Barriers: .045 | 12' PAINTED AC | (6' AC (FLUSH) AC CURBS BOTH SIDES) | 1.00 | (6'–15' AC (FLUSH) AC CURBS BOTH SIDES)
- Shoulder: Width and Type: 0 (0.670) | 3' AC
- Pavement: Width and Type: 12' AC (.121) | 24' AC (.476) | 12' AC
- Shoulder: Width and Type: 12' AC (0.27) | 2' AC

Number of Traffic Lanes: 2–12' (.121) | 1–12' / 2–12' (.355) | 2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 11' AC (.095)
(Right Side): .099 | .296 | .117 | 11' AC (.095) | .375 | .637
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): .273 | 2' CONC. S.W.
Curb and/or Gutter: Type (Right and Left): .273 | GUTTER, CONC. CURB / CONC. CURB
Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise.
Illumination: Type, Location and Number: .209 | .247 | HPS LEFT SIDE ONLY
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): A (0.003) | D (0.21) | A
Superelevation (Range)
Grade Class: +/_ % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): C (0.30) | E (0.46) | D (0.75) | F (1.07) | E (1.16) | (D)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: SMALL URBAN (99998)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: .209 | ROLLING (2)
Speed: 1–Design, 2–Posted: 25 MPH (2) | .226 | 35 MPH (2) | .683
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Station (Current Year): B71 0197 00029
HPMS Sections – AADT 2017: 4,949
HPMS Sections – AADT 2016: 4,900
HPMS Sections – AADT 2015: 4,800
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (4) | MINOR ARTERIAL
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 4" = 1 mile

| Date Released |
|---|
| MAY 2014 |

| Revised | |
|---|---|
| 1/16 | EPJ |
| 1/17 | EPJ |
| 2/18 | DB |
| 11/18 | DB |

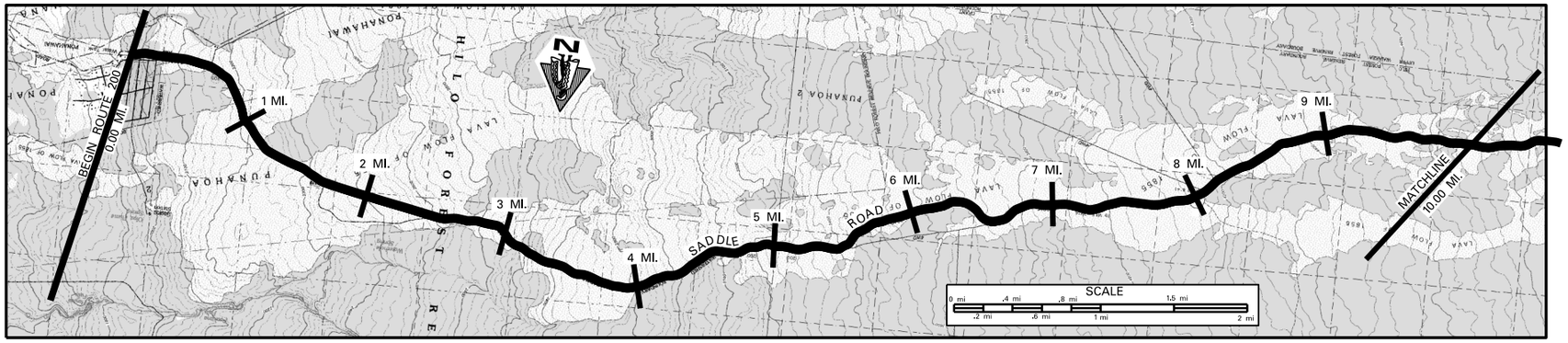
# ROAD INVENTORY
# HAWAII RTE 200
# SADDLE ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 43.224 miles
**a. Survey Length:** 43.224 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*

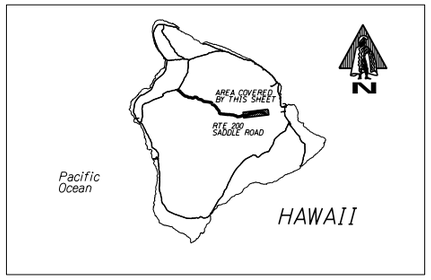



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

Structure Carrying Road — Bridges (Over 20'): Length, Type, Capacity and Year Constructed
Vertical Clearance
Horizontal Clearance
Structure Over Road — Vertical Clearance
Horizontal Clearance

Right of Way Width (min.–max.) If varies: VARIES 50'–150'
Available Right of Way Width (Needs Study): BUSHES, GRASS & TREES
Right of Way Fence: Type – Right and Left: NONE
Control of Access: 1–None, 2–Partial, 3–Full: NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): COUNTY
Project No., Type of Construction, and Year Constructed
Project No., Type of Construction, and Year Constructed: 1.93 RS–0200(4), COUNTY PROJECT, 1987 (R); 3.12 RS–0200(3), COUNTY PROJECT, 1987 (R)




**Road Diagram**
* MP = Milepost Signage

BEGIN RTE 200 ON SADDLE ROAD AT THE HILO URBAN BOUNDRY (FOREST RESERVE SIGN) APPROX. 0.17 MI. SOUTHEAST OF TRIG STATION

0.000 MI.

TRIG STATION UA NAHELE ST.

SADDLE ROAD

8 MP, 9 MP, 10 MP, 11 MP, 12 MP, 13 MP, 14 MP, 15 MP, 16 MP, 17 MP, 18 MP

0.173 MI. 0.163 MI., 0.538 MI., 1.165 MI., 2.244 MI., 3.358 MI., 3.892 MI., 4.893 MI., 5.897 MI., 6.898 MI., 7.898 MI., 8.900 MI., 9.900 MI.

CONTINUED ON SHEET #2
10.000 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided
Shoulder: Width and Type: 2'–4' GRASS; 4' AC; 3.12 10' DIRT; 3.96; 4' AC; 4.63; 10' DIRT; 6.30; 4' AC; 6.98; 2' AC/10' DIRT; 9.18; 4' AC; 9.33; 10' DIRT
Pavement: Width and Type: 20' BST; 1.13; 22' AC
Shoulder: Width and Type: 2'–4' GRASS; 4' AC; 3.12 10' DIRT; 3.60; 3.96; 4' AC; 4.63; 10' DIRT; 6.30; 4' AC; 6.98; 2' AC/10' DIRT; 9.18; 4' AC; 9.33; 10' DIRT
Median: Width and Type: MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20)
Median Barriers:
Shoulder: Width and Type
Pavement: Width and Type
Shoulder: Width and Type

Number of Traffic Lanes: 2–10'; 1.13; 2–11'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side): 3.61; 7.70; 1–12' TRUCK CLIMBING LANE
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): N/A
Curb and/or Gutter: Type (Right and Left): .075; .075; U
Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise.
Illumination: Type, Location and Number: 7.01
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: 4.890; ROLLING (2)
Speed: 1–Design, 2–Posted: (NOT POSTED) 1.98; 35 MPH (2); 3.89; 45 MPH (2); 7.70; 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): P71 0200 03304
HPMS Sections – AADT 2017: 4,900
HPMS Sections – AADT 2016: 4,600
HPMS Sections – AADT 2015: 4,200
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (4)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| NOV. 05, D.B. | |
| **Revised** | |
| 7/06 | D.B. |
| 9/07 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

ROAD INVENTORY

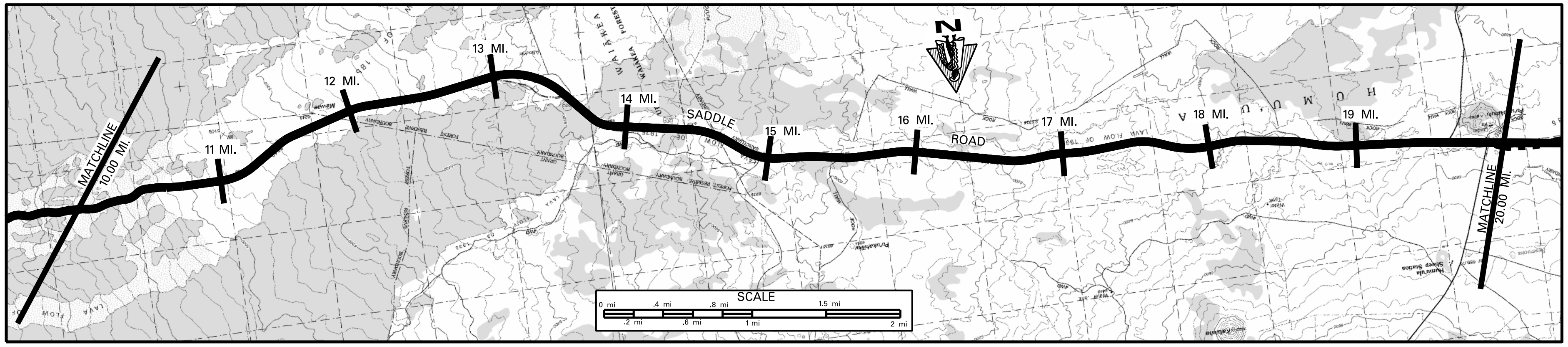
# HAWAII RTE 200
# SADDLE ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

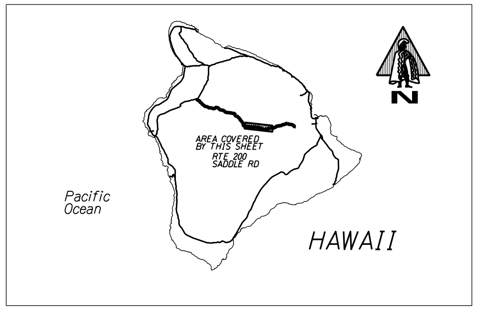
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 43.224 **miles**
**a. Survey Length:** 43.224 **miles**
**b. Proposed Length:** 0.00 **miles**
**c. Other Length: *** 0.00 **miles**
*



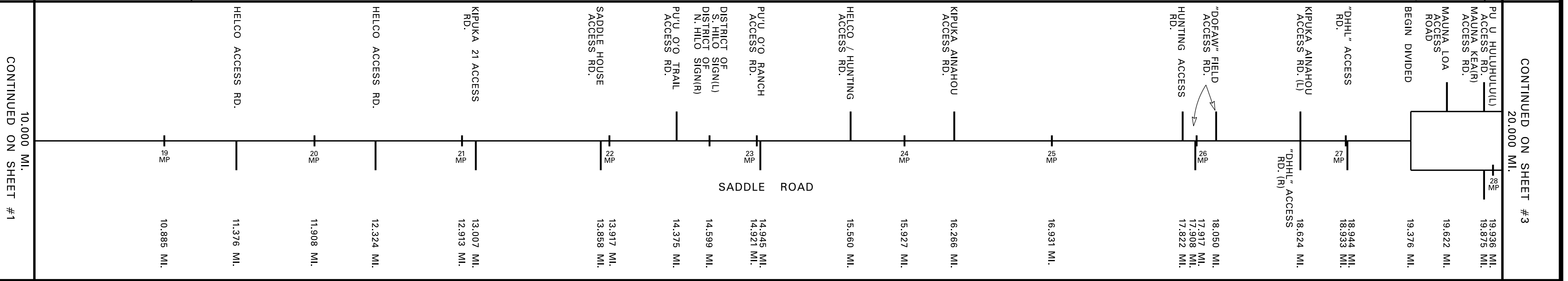
SCALE: (In Miles) 2″ = 1 mile

| | |
|---|---|
| Maintenance Control Sections : Length and Description | |
| Structure Carrying Road — Bridges (Over 20′): Length, Type, Capacity and Year Constructed | |
| Structure Carrying Road — Vertical Clearance | |
| Structure Carrying Road — Horizontal Clearance | |
| Structure Over Road — Vertical Clearance | |
| Structure Over Road — Horizontal Clearance | |
| Right of Way Width (min.–max.) if varies | VARIES 50′–100′ \| 10.96 \| VARIES 170′–196′ \| 19.86 \| 196′ |
| Available Right of Way Width (Needs Study) | BRUSH, GRASS AND TREES \| 11.24 \| 1000′ CLEAR– LAVA ROCK – 10′–15′ FROM EDGE OF PAVEMENT |
| Right of Way Fence: Type – Right and Left | 14.46 – 14.74 ←(WOOD ON WOOD 40′ FROM E.P.) |
| Control of Access: 1–None, 2–Partial, 3–Full | NONE |
| Jurisdiction, Transfer Phase No. and Date (C to S or S to C) | COUNTY \| STATE |
| Project No., Type of Construction, and Year Constructed | 10.96 \| STP 200(1), NEW ALIGNMENT & WIDENING, 2008 \| 19.88 \| 694+00 |
| Project No., Type of Construction, and Year Constructed | RS–0200(3), COUNTY PROJ., 1987, (R) \| 11.07 \| ( HIA–AD/STP 6(3), New Alignment, 2007 ) |



**Road Diagram**

* MP=Milepost Signage



SCALE: (In Miles) 2″ = 1 mile

| | |
|---|---|
| Undivided — Shoulder: Width and Type — MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20) | 10′ DIRT \| 4′ AC \| 10′ DIRT \| 10′ DIRT \| 8′ AC \| 11.81 \| (20′ AC) \| 11.87 \| 8′ AC |
| Undivided — Pavement: Width and Type | 22′ AC \| (4′ AC) \| 10.96 \| 24′ AC \| 12′ AC |
| Undivided — Shoulder: Width and Type — MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20) | 10′ DIRT \| 4′ AC \| 10′ DIRT \| 10′ DIRT \| 8′ AC \| 11.81 \| 11.87 \| 8′ AC \| 13.55 \| 13.60 \| 8′ AC \| 15.62 \| 15.68 \| 8′ AC \| 18.67 \| 18.72 \| 8′ AC \| 0 |
| Median: Width and Type | 10.33 \| 10.43 \| 10.64 \| 10.68 \| (20′ AC) \| (20′ AC) \| (20′ AC) \| (20′ AC) \| .376 \| 0′–20′ PAINTED AC |
| Median Barriers: | |
| Divided Highway — Shoulder: Width and Type | 0 |
| Divided Highway — Pavement: Width and Type | 12′ AC |
| Divided Highway — Shoulder: Width and Type — MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20) | 8′ AC |
| Number of Traffic Lanes | 2–11′ \| 10.96 \| 2–12′ |
| Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) | .491 \| 1–12′ (L) TL \| .622 \| .994 |
| (Right Side) | 1–12′ TRUCK CLIMBING LANE \| 16.71 \| .755 \| .875 \| 1–12′ (R) TL |
| Frontage Road: No. of Lanes, and Width (Right and Left) | |
| Sidewalk: Width and Type (Right and Left) | N/A |
| Curb and/or Gutter: Type (Right and Left) | |
| Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise. | .047 \| .078 \| .465 \| .494 |
| Illumination: Type, Location and Number | |
| Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) | AB \| 10.15 \| A \| 10.46 \| B \| 10.58 \| A \| 13.75 \| B \| 13.92 \| A |
| Superelevation (Range) | |
| Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) | E \| 10.22 \| D \| 10.57 \| E \| 10.74 \| D \| 11.13 \| C \| 11.75 \| D \| 11.95 \| C \| 12.21 \| D \| 12.35 \| E \| 12.45 \| D \| 12.98 \| E \| 13.07 \| C \| 13.51 \| B \| 13.98 \| C \| 14.22 \| D \| 14.37 \| E \| 14.57 \| C \| 14.87 \| B \| 15.19 \| D \| 15.79 \| C \| 15.90 \| B \| 15.97 \| C \| 17.23 \| B \| 17.47 \| C \| 18.02 \| B \| 18.77 \| C \| 18.91 \| B |
| Vertical Curve: Crest or Sag, Curve Limits | |
| Area and Development: | RURAL (99999) |
| Terrain: 1–Flat, 2–Rolling, 3–Mountainous | ROLLING (2) \| 19.39 \| FLAT (1) |
| Speed: 1–Design, 2–Posted | 55 MPH (2) \| .347 \| .472 \| 45 MPH (2) \| .908 \| .003 \| 55 MPH (2) |
| Intersection Control Devices: Type, Location and Cycle Timing | |
| Traffic Stations (Current Year) | P71 0200 \| 03304 |
| HPMS Sections – AADT 2017 | 4,900 |
| HPMS Sections – AADT 2016 | 4,600 |
| HPMS Sections – AADT 2015 | 4,200 |
| DOD Sections | |
| Census Tracts | |
| Functional Classification | MINOR ARTERIAL (4) |
| National Highway System (NHS) | NOT ON NHS (0) |
| Previous Projects: Project No., Date and Limits | |

SCALE: (In Miles) 2″ = 1 mile

10 11 12 13 14 15 16 17 18 19 20

| Date Released | |
|---|---|
| NOV. 05, D.B. | |
| Revised | |
| 7/06 | D.B. |
| 9/07 | D.B. |
| 1/09 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

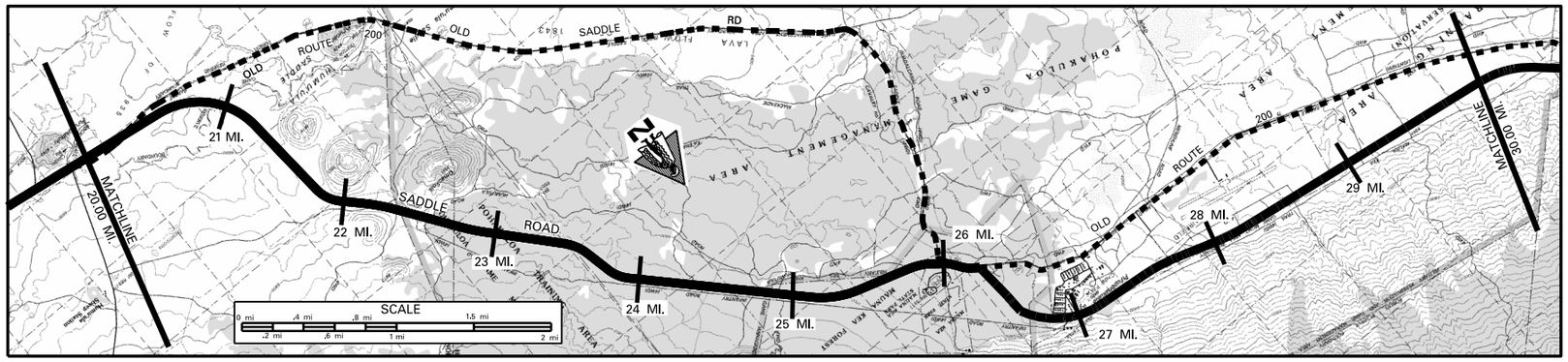
# ROAD INVENTORY
# HAWAII RTE 200
# SADDLE ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 43.224 miles
**a. Survey Length:** 43.224 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: 2 CELL BOX CULVERT 24' (24.481)
- Vertical Clearance
- Horizontal Clearance

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: 196' (20.07) 174' (21.19) 160' (22.15) 140' (22.61) 196' (25.78) VARIES 50'–150' (26.32)

Available Right of Way Width (Needs Study): 1000' CLEAR – LAVA ROCK W/ SMALL BUSHES 10'–15' FROM E.P. (25.68); 1000' CLEAR – GRASSLAND W/ BUSHES & SMALL TREES 10'–15' FROM E.P.

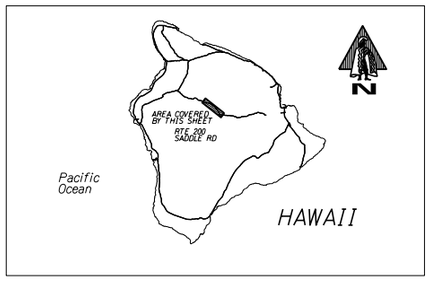
Right of Way Fence: Type – Right and Left: (WIRE ON METAL 10' FROM E.P.) (26.32) (27.03)

Control of Access: 1–None, 2–Partial, 3–Full: NONE

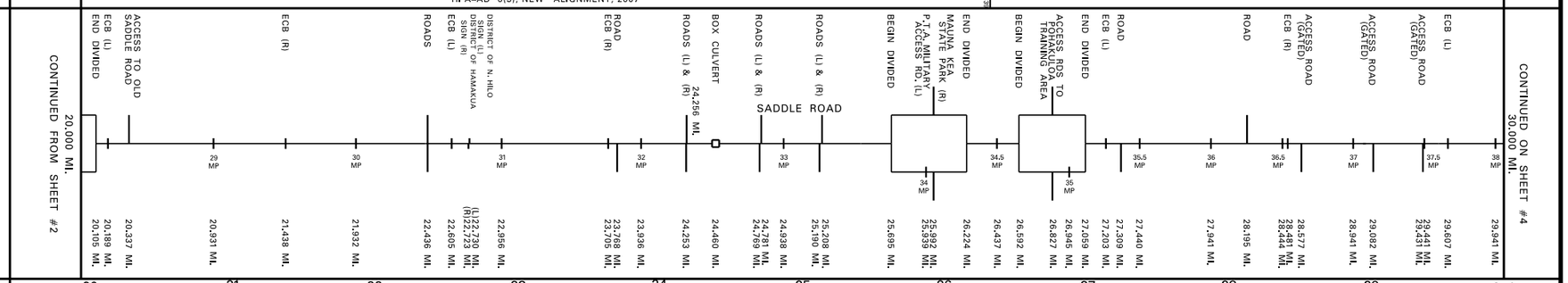
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE (380+00)

Project No., Type of Construction, and Year Constructed: (HI–A–AD–6(5), NEW ALIGNMENT, (DEFENCE ACC. RD.), 2010) (25.78) (26.08) (26.32) (0+00) HI–A–AD–6(5), NEW ALIGNMENT, (DEFENCE ACC. RD.), 2010

Project No., Type of Construction, and Year Constructed: HI A–AD 6(3), NEW ALIGNMENT, 2007 (26.38)




**Road Diagram**
* MP = Milepost Signage




SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**

- Shoulder: Width and Type: 8' AC; 8' AC; 16' AC; 16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER) — MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20)
- Pavement: Width and Type: 12' AC; 24' AC; 12' AC; 24' AC; 12' AC; 24' AC
- Shoulder: Width and Type: 0; 8' AC; 16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER; 0; 0; 16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER — MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20)
- Median: Width and Type: (0'–20' PAINTED AC); 0'–20' PAINTED AC; 0'–18' PAINTED AC
- Median Barriers:
- Shoulder: Width and Type: 0; 0; 0
- Pavement: Width and Type: 12' AC; 12' AC; 12' AC
- Shoulder: Width and Type: 8' AC; (16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER); (16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER) — MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20)

Number of Traffic Lanes: 2–12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 1–12' (L) TL; 12' TLs

(Right Side): 1–12' (R) TL; 12' TLs

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left): N/A

Curb and/or Gutter: Type (Right and Left): AC CURB; AC CURB

Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise.

Illumination: Type, Location and Number

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): A; B (21.60–21.99); A; B (23.77–23.94); A

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): B (20.14); A; B (20.84–21.06); C (21.41); B; C (22.23–22.63); B; C (25.38); B; C (26.34); B; C (26.97); D (27.16–27.28); C; B (29.18)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: FLAT (1); FLAT (1); ROLLING (2); FLAT (1)

Speed: 1–Design, 2–Posted: 55 MPH (2); 45 MPH (2); 40 MPH (2); 55 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): P71 0200 03304

HPMS Sections – AADT 2017: 4,900

HPMS Sections – AADT 2016: 4,600

HPMS Sections – AADT 2015: 4,200

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

National Highway System (NHS): NOT ON NHS (0)

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| NOV. 05, D.B. |

| Revised | |
|---|---|
| 7/06 | D.B. |
| 9/07 | D.B. |
| 1/09 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

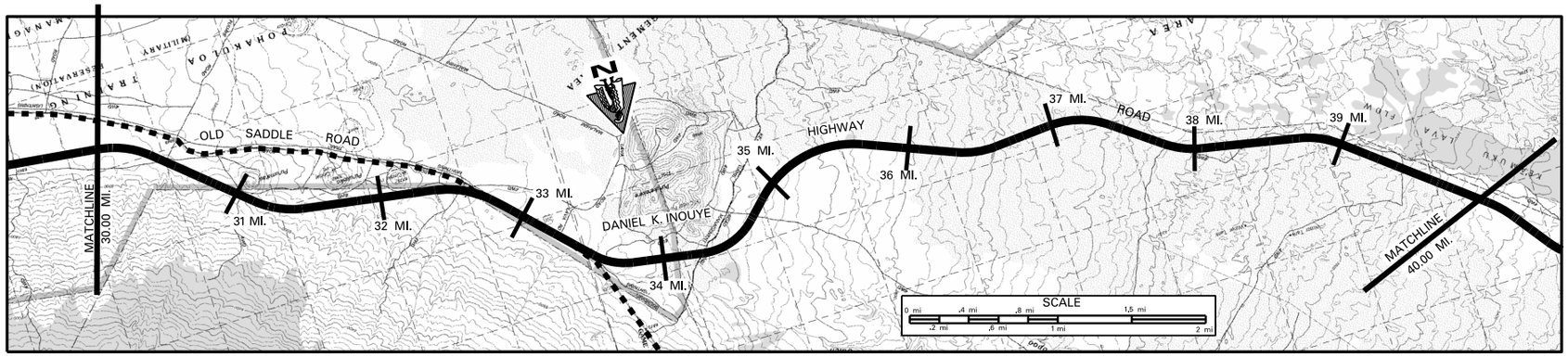
# ROAD INVENTORY
# HAWAII RTE 200
# SADDLE ROAD, DANIEL K. INOUYE HWY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 43.224 miles
**a. Survey Length:** 43.224 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*



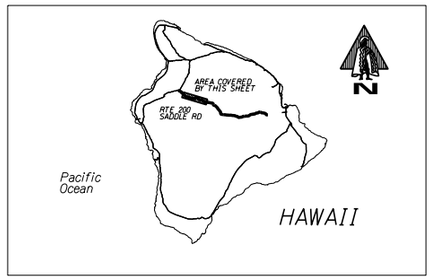

SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

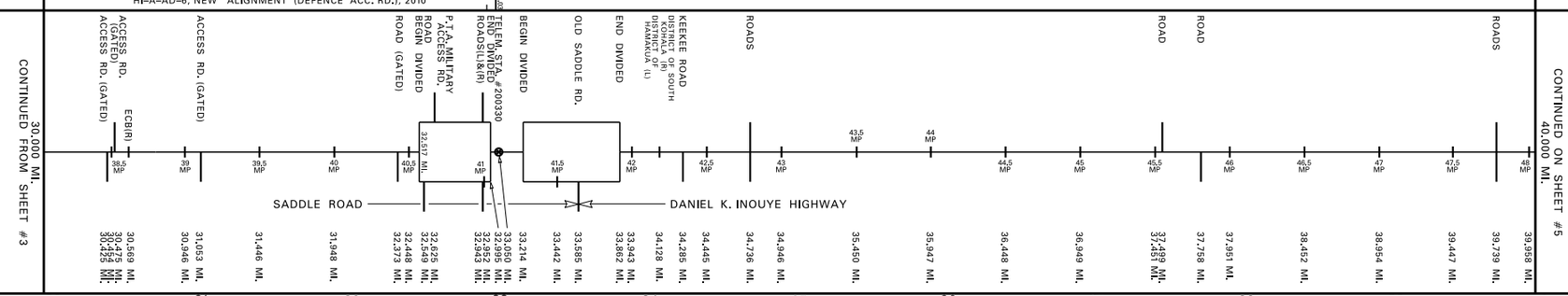
**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: CULVERT-CORR. METAL PIPE 1957, HS-20
- Vertical Clearance: 4'
- Horizontal Clearance: 16'

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.-max.) If varies: ESTIMATED 100'-150'
Available Right of Way Width (Needs Study): 1000' CLEAR- PASTURELAND 30' FROM EDGE OF PAVEMENT
Right of Way Fence: Type - Right and Left: ALL WIRE ON WOOD 30' FROM EDGE OF PAVEMENT; NONE
Control of Access: 1-None, 2-Partial, 3-Full
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE; COUNTY
Project No., Type of Construction, and Year Constructed: HI-A-AD-6(7), NEW ALIGNMENT (DEFENCE ACC. RD.), 2013
Project No., Type of Construction, and Year Constructed: HI-A-AD-6, NEW ALIGNMENT (DEFENCE ACC. RD.), 2010




**Road Diagram**
* MP = Milepost Signage




SCALE: (In Miles) 2" = 1 mile

**Divided Highway**

**Undivided**
- Shoulder: Width and Type: MILLED SHOULDERS RUMBLE STRIPS (3.60-43.20); 16' AC; 8' AC
- Pavement: Width and Type: 24' AC; 12' AC; 24' AC; 12' AC; 24' AC
- Shoulder: Width and Type: MILLED SHOULDERS RUMBLE STRIPS (3.60-43.20); 16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER; 0; 0; 8' AC
- Median: Width and Type: 0'-20' PAINTED AC; 0'-15' PAINTED AC
- Median Barriers:
- Shoulder: Width and Type: 0; 0
- Pavement: Width and Type: 12' AC; 12' AC; (8' AC)
- Shoulder: Width and Type: MILLED SHOULDERS RUMBLE STRIPS (3.60-43.20); (16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER); (16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER); (16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER)

Number of Traffic Lanes: 2-12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 12' TRUCK CLIMBIMG LANE
(Right Side): BRAKE CHECK AREA
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): N/A
Curb and/or Gutter: Type (Right and Left): AC CURB; AC CURB
Protective Devices: Type, Location and Number: All Metal Rails on Metal Posts unless noted otherwise.
Illumination: Type, Location and Number
Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.85) E(13.85-28.62) F(<28.62): A
Superelevation (Range)
Grades Class: +/- % (A(0-.45) B(.45-2.45) C(2.45-4.45) D(4.45-6.45) E(6.45-8.45) F(<8.45): B; C; B; E; D; C; B
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1-Flat, 2-Rolling, 3-Mountainous: FLAT; ROLLING (2)
Speed: 1-Design, 2-Posted: 55 MPH (2); 45 MPH (2); 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): P71 0200 93304
HPMS Sections - AADT 2017: 4,900
HPMS Sections - AADT 2016: 4,600
HPMS Sections - AADT 2015: 4,200
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (4)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| FEB. 2006 | D.B. |
| **Revised** | |
| 7/06 | D.B. |
| 9/07 | D.B. |
| 1/09 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY
# HAWAII RTE 200
# DANIEL K. INOUYE HWY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

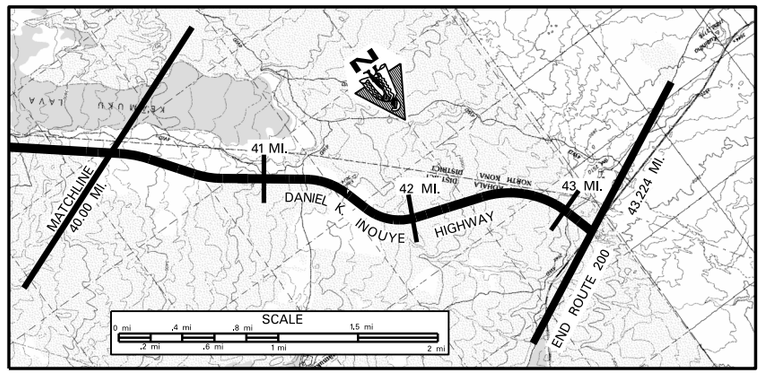
**Total Route Length:** 43.224 **miles**

**a. Survey Length:** 43.224 **miles**

**b. Proposed Length:** 0.00 **miles**

**c. Other Length: *** 0.00 **miles**

*




SCALE: (In Miles) 2" = 1 mile

40 41 42 43 44 45 46 47 48 49 50

**Maintenance Control Sections : Length and Description**

**Structure Carrying Road**

**Bridges (Over 20'): Length, Type, Capacity and Year Constructed**

**Vertical Clearance**

**Horizontal Clearance**

**Structure Over Road**

**Vertical Clearance**

**Horizontal Clearance**

**Right of Way Width (min.–max.) If varies**

**Available Right of Way Width (Needs Study)**

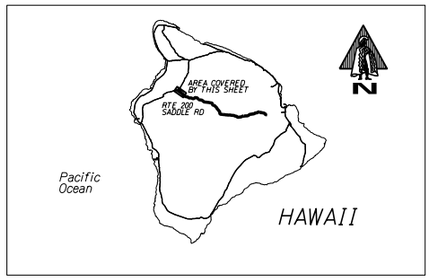
**Right of Way Fence: Type – Right and Left**

**Control of Access: 1–None, 2–Partial, 3–Full** — NONE

**Jurisdiction, Transfer Phase No. and Date (C to S or S to C)** — COUNTY

**Project No., Type of Construction, and Year Constructed** — HI–A–AD–6(7), NEW ALIGNMENT (DEFENCE ACC. RD.), 2013

**Project No., Type of Construction, and Year Constructed**




**Road Diagram**

* MP = Milepost Signage

CONTINUED FROM SHEET #4 — 40.000 MI.

ROAD

BEGIN DIVIDED

48.5 MP — 49 MP — 49.5 MP — 50 MP — 50.5 MP — 51 MP

DANIEL K. INOUYE HIGHWAY

40.456 MI. — 40.958 MI. — 41.532 MI. — 41.458 MI. — 41.959 MI. — 42.460 MI. — 42.961 MI. — 43.132 MI.

END RTE 200 ON SADDLE ROAD AT THE EAST EDGE OF PAVEMENT OF MAMALAHOA HWY (RTE 190)
* 43.224 MI.

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH TO VIDEOLOG & TO FEATURES DATABASE.

SCALE: (In Miles) 2" = 1 mile

40 41 42 43 44 45 46 47 48 49 50

**Divided Highway — Undivided**

**Shoulder: Width and Type** — MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20)

**Pavement: Width and Type** — 8' AC; 24' AC; 12' AC

**Shoulder: Width and Type** — MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20); 8' AC; 0

**Median: Width and Type** — 0'–8' PAINTED AC

**Median Barriers:** — .132

**Shoulder: Width and Type** — 0

**Pavement: Width and Type** — 12' AC

**Shoulder: Width and Type**

**Number of Traffic Lanes** — 2–12'

**Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)** — 12' TRUCK CLIMBING LANE

**(Right Side)**

**Frontage Road: No. of Lanes, and Width (Right and Left)**

**Sidewalk: Width and Type (Right and Left)** — N/A

**Curb and/or Gutter: Type (Right and Left)** — CONC. GUTTER .336 .247; CONC. GUTTER .813 .192

**Protective Devices: Type, Location and Number**

**Illumination: Type, Location and Number**

**Curves: Degree of Curvature (Right and Left)**

**Superelevation (Range)**

**Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)**

**Vertical Curve: Crest or Sag, Curve Limits**

**Area and Development:** — RURAL (99999)

**Terrain: 1–Flat, 2–Rolling, 3–Mountainous** — ROLLING (2)

**Speed: 1–Design, 2–Posted** — 55 MPH (2); 45 MPH (2) .968; 35 MPH (2) .097

**Intersection Control Devices: Type, Location and Cycle Timing**

**Traffic Stations (Current Year)** — P71 0200 03304

**HPMS Sections – AADT 2017** — 4,900

**HPMS Sections – AADT 2016** — 4,600

**HPMS Sections – AADT 2015** — 4,200

**DOD Sections**

**Census Tracts**

**Functional Classification** — MINOR ARTERIAL (4)

**National Highway System (NHS)** — NOT ON NHS (0)

**Previous Projects: Project No., Date and Limits**

SCALE: (In Miles) 2" = 1 mile

40 41 42 43 44 45 46 47 48 49 50

| Date Released | |
|---|---|
| NOV. 05, | D.B. |
| **Revised** | |
| 7/06 | D.B. |
| 8/07 | D.B. |
| 1/09 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY

# HAWAII RTE 210
# MAUNA KEA OBSERVATORY ACCESS RD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

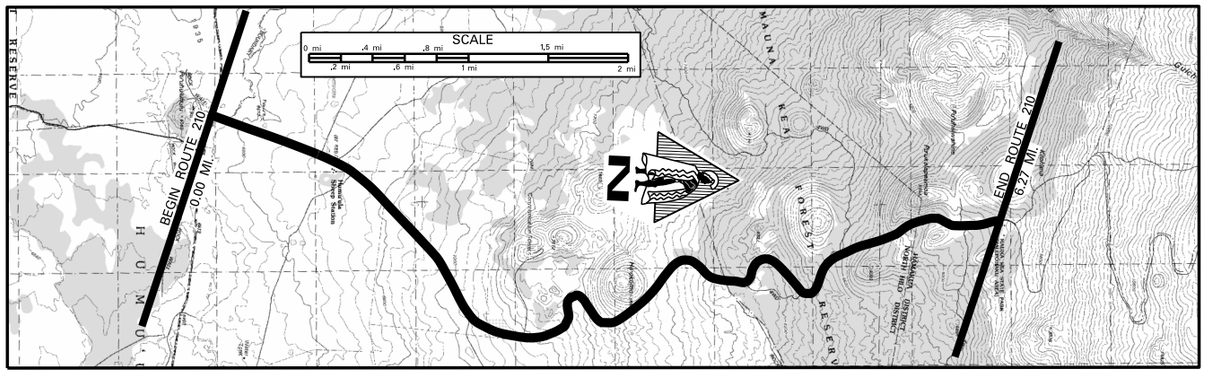
**Total Route Length:** 6.27 miles

a. **Survey Length:** 6.27 miles

b. **Proposed Length:** 0.00 miles

c. **Other Length:** * 0.00 miles

*



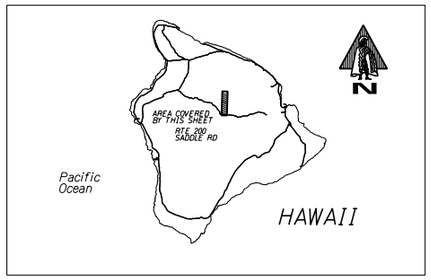

SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

Structure Carrying Road: Bridges (Over 20'): Length, Type, Capacity and Year Constructed
Vertical Clearance
Horizontal Clearance

Structure Over Road: Vertical Clearance
Horizontal Clearance

Right of Way Width (min.–max.) If varies
Available Right of Way Width (Needs Study)
Right of Way Fence: Type – Right and Left
Control of Access: 1–None, 2–Partial, 3–Full
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)
Project No., Type of Construction, and Year Constructed
Project No., Type of Construction, and Year Constructed




**Road Diagram**

* MP = Milepost Signage

BEGIN RTE 210 ON MAUNA KEA OBSERVATORY ACCESS RD AT INTERSECTION WITH RTE 200 — 0.000 MI.

DRIVEWAY 0.84 MI.
DIRT ROAD 1.34 MI.
DIRT ROAD 1.30 MI.
CULVERT 1.79 MI.
DIRT ROAD 2.10 MI.
DIRT ROAD 2.49 MI.
DIRT ROAD 3.56 MI.
DIRT ROAD 4.30 MI.
DIRT ROAD 4.49 MI.
VISTOR CENTER 6.20 MI.
DIRT ROAD 6.14 MI.
DIRT ROAD 6.06 MI.
DIRT ROAD 6.02 MI.

MAUNA KEA OBSRVATORY ACCESS ROAD

END ROUTE 210 AT THE VISITOR CENTER ENTRANCE — 6.27 mi.

Indicates Grass & / or Physical Barrier on Median.

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided:
Shoulder: Width and Type — 6' AC
Pavement: Width and Type — 20' AC
Shoulder: Width and Type — 6' AC
Median: Width and Type
Median Barriers:
Shoulder: Width and Type
Pavement: Width and Type
Shoulder: Width and Type

Number of Traffic Lanes — 2–10'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left)
Protective Devices: Type, Location and Number
Illumination: Type, Location and Number
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)
Superelevation (Range)
Grade Class: +/_ % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development:
Terrain: 1–Flat, 2–Rolling, 3–Mountainous
Speed: 1–Design, 2–Posted
Intersection Control Devices: Type, Location and Cycle Timing

10' TRUCK CLIMBING LANE .62 .74
10' TRUCK CLIMBING LANE .74 .87

Traffic Station (Current Year)
HPMS Sections – AADT Year
HPMS Sections – AADT Year
HPMS Sections – AADT Year
DOD Sections
Census Tracts
Functional Classification
National Highway System (NHS)
Previous Projects: Project No., Date and Limits

| Date Released |
|---|
| Nov 2018 |
| Revised |

SCALE: (In Miles) 2" = 1 mile

# ROAD INVENTORY
# HAWAII RTE 220
# HONOMU RD., OLD MAMALAHOA HWY., AKAKA FALLS RD.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

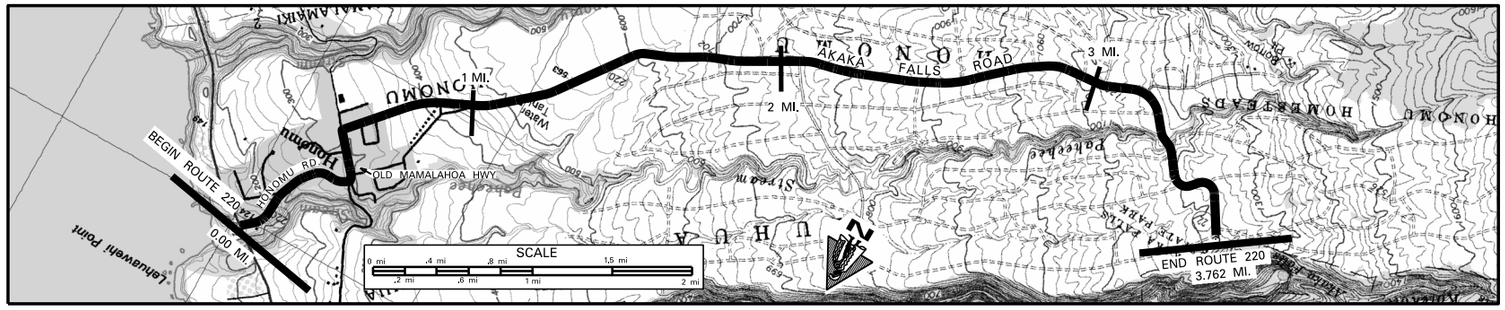
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 3.762 miles

**a. Survey Length:** 3.762 miles

**b. Proposed Length:** 0.00 miles

**c. Other Length:** 0.00 miles




SCALE: (In Miles) 4" = 1 mile

**Maintenance Control Sections : Length and Description**

END 220A SAME AS ROUTE | 220A (3.76 MI.) | BEG 220A SAME AS ROUTE

| | | |
|---|---|---|
| Structure Carrying Road | Bridges (Over 20'): Length, Type, Capacity and Year Constructed | SLAB 1927 H10 |
| | Vertical Clearance | 27' |
| | Horizontal Clearance | 14' |
| Structure Over Road | Vertical Clearance | |
| | Horizontal Clearance | |

**Right of Way Width (min.–max.) If varies:** 40'–50' (0.00–0.12), 80' (0.12–0.61), 40' (0.61–0.69), 80' (0.69–1.08), 80'

**Available Right of Way Width (Needs Study):** RESIDENTIAL AREA (0.12–0.69); 1000' CLEAR SUGAR CANE FIELD – 15' FROM EDGE OF PAVEMENT

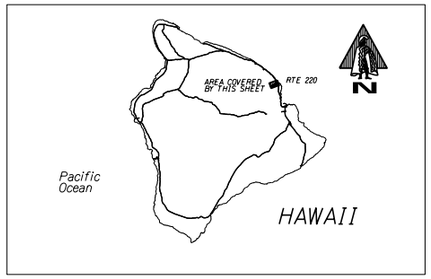
**Right of Way Fence: Type – Right and Left:** NONE

**Control of Access: 1–None, 2–Partial, 3–Full:** STATE

**Jurisdiction, Transfer Phase No. and Date (C to S or S to C):** 8 + 70

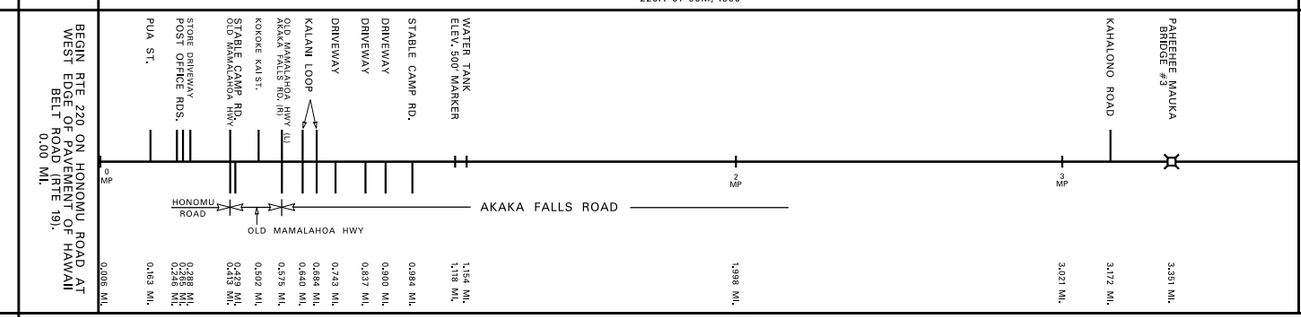
**Project No., Type of Construction, and Year Constructed:** STA 21 + 87.59 — 220A–01–03M RESURF 2005 (0.48); 220A–01–02M, (R), 2004

**Project No., Type of Construction, and Year Constructed:** 220A–01–90M, 1990




**Road Diagram**

* MP = Milepost Signage




* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE. END RTE 220 ON AKAKA FALLS ROAD AT THE ENTRANCE TO AKAKA FALLS PARKING LOT GATE. 3.762 MI.*


SCALE: (In Miles) 4" = 1 mile

**Divided Highway — Undivided**

| | |
|---|---|
| Shoulder: Width and Type | 4' AC (0.00–0.24); 5' AC (0.24–0.48); 16' AC (0.48–0.61); 8' AC (0.61–1.08); 4' AC (1.08–3.021); 22' AC (3.021–3.762) |
| Pavement: Width and Type | 22' AC (0.00–0.49); 24' AC (0.49–0.575); 24' AC (0.575–3.762) |
| Shoulder: Width and Type | 4' AC (0.00–0.41); 3' GRASS (0.41–0.575); 4' AC (0.575–3.021); 2–11' (3.021–3.762) |
| Median: Width and Type | |
| Median Barriers: | |
| Shoulder: Width and Type | |
| Pavement: Width and Type | |
| Shoulder: Width and Type | |

**Number of Traffic Lanes:** 2–11' (0.00–0.575); 2–12' (0.575–3.021); 2–11' (3.021–3.762)

**Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side):** 8' PARKING LANES (0.247–0.575)

**(Right Side):** 8' PARKING LANES (0.247–0.575)

**Frontage Road: No. of Lanes, and Width (Right and Left)**

**Sidewalk: Width and Type (Right and Left):** N/A

**Curb and/or Gutter: Type (Right and Left):** N/A

**Protective Devices: Type, Location and Number** ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED

**Illumination: Type, Location and Number**

**Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62)**

ED (0.00–0.11) AC AC (0.11–0.20) E (0.20–0.48) CAF (0.48–0.61) AB (0.61–1.07) A (1.07–1.27) BA (1.27–1.53) DA (1.53–1.74) BA (1.74–2.07) CA (2.07–2.94) CA (2.94–3.01) CA (3.01–3.12) D (3.12–3.26) ADE (3.26–3.39) AE (3.39–3.62) A (3.62–3.762)

**Superelevation (Range)**

**Grade Class: +/_ % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45)**

F (0.00–0.18) E (0.18–0.25) C (0.25–0.47) B (0.47–0.53) C (0.53–0.59) D (0.59–0.67) F (0.67–0.82) D (0.82–1.01) E (1.01–1.16) D (1.16–1.95) C (1.95–2.26) D (2.26–2.39) F (2.39–2.46) E (2.46–2.67) F (2.67–2.72) E (2.72–2.86) D (2.86–3.34) B (3.34–3.63) D (3.63–3.88) B (3.88–3.762)

**Vertical Curve: Crest or Sag, Curve Limits**

**Area and Development:** RURAL (99999)

**Terrain: 1–Flat, 2–Rolling, 3–Mountainous:** ROLLING (2) (0.201–0.663)

**Speed: 1–Design, 2–Posted:** 25 MPH (2); (35 MPH (2)) (0.084–0.201); 45 MPH (2); (35 MPH (2)) (0.663–0.821); 25 MPH (2)

**Intersection Control Devices: Type, Location and Cycle Timing**

**Traffic Station (Current Year):** B71 0220 00026; B71 0220 00334

**HPMS Sections – AADT 2017:** 2,000 (0.00–0.48); 890

**HPMS Sections – AADT 2016:** 1,600; 690

**HPMS Sections – AADT 2015:** 1,700; 820

**DOD Sections:** MAJOR COLLECTOR (5)

**Census Tracts:** NOT ON NHS (0)

**Functional Classification**

**National Highway System (NHS)**

**Previous Projects: Project No., Date and Limits:** (220A–01–72, 1972 (R)); 0.48 (S–246–1, 1950); 220A–01–79M, 1978 (R); PMS–0100(8), UNIT 5; 3.62 (STP–0100(31), 1994)

0.43 CTY. (S–246–1, 1950) 0 + 16 – 0 + 18; 0.59 (220A–02–72, 1973); 1.11 27 + 53 – 105 + 00; A–220–01–64, 1965; 2.69 COUNTY 31 + 52; 3.07 37 + 02; A–22–01–61, 1961; 3.62 7 + 50 CTY.

SCALE: (In Miles) 4" = 1 mile

| Date Released |
|---|
| SEPT 05, DB |

| Revised | |
|---|---|
| 5/06 | G.N. |
| 9/10 | G.N. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY
# HAWAII RTE 240
# HONOKAA–WAIPIO RD. & MAMANE ST.

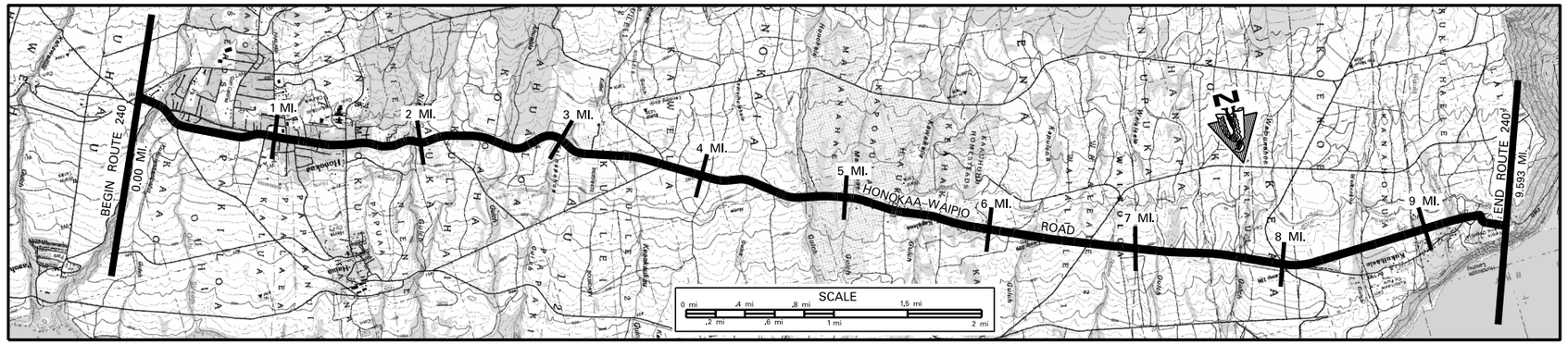
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 9.593 miles
- a. Survey Length: 9.593 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: END 240 A SAME AS BEGIN ROUTE; 240 A (9.62 MI.); BEGIN 240 A SAME AS END ROUTE

**Structure Carrying Road**

Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- CULVERT 1953, HS–20 — 27'
- TEE BEAM, 1967, HS–20 — 80'
- CULVERTS 1966, HS–20 — 24', 51', 51', 154'
- PRESTRESSED CONCRETE GIRDER 1967, HS–20 — 206'
- PRESTRESSED CONCRETE BEAM 1971, HS–20 — 115'; 1972, HS–20 — 67'
- PRESTRESSED CONCRETE GIRDER 1979, HS–20–44 — 100'

Vertical Clearance: 0.21; 1.86; 4.81; 5.01; 5.55; 6.84; 7.73; 9.17

Horizontal Clearance: 24'; 28'; 36'; 36'; 36'; 36'; 28'; 36'; 36'; 36'

**Structure Over Road**

Vertical Clearance

Horizontal Clearance: (170'–200')

Right of Way Width (min.–max.) If varies: 80'–235'; 40'–60'; 80'–100'; 80'–138'; 80'–174'; 80'–110'; 80'–215'; 90'; 90'–130'; 140'; 100'–130'; 90'–100'; 70'

Available Right of Way Width (Needs Study): (1000' CLEAR 15'–20' FROM E.P.); SUGAR CANE (L) RESIDENTIAL (R); RESIDENTIAL / TOWN; 1000' CLEAR – SUGAR CANE 15'–20' FROM E.P.; RES. AREA; 1000' CLEAR – SUGAR CANE 15'–25' FROM E.P.; TREES & BUSHES; RESIDENTIAL AREA; 1000' CLEAR – SUGAR CANE 25' FROM E.P.; RESIDENTIAL AREA; RESIDENTIAL WITH SUGAR CANE ON SIDE; TREES & BUSHES; RES. AREA

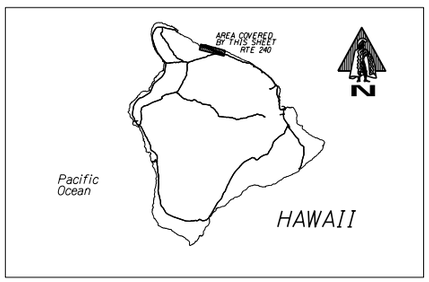
Right of Way Fence: Type – Right and Left: (CHAINLINK FENCE)

Control of Access: 1–None, 2–Partial, 3–Full

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE; COUNTY TO STATE PHASE 2; STATE; (COUNTY)

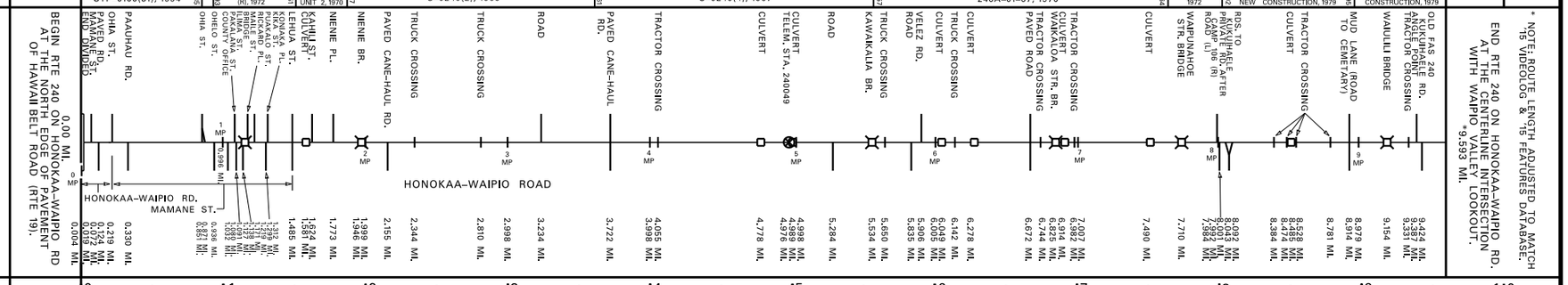
Project No., Type of Construction, and Year Constructed: 240A–01–92M, RESURFACE, 1994

Project No., Type of Construction, and Year Constructed: STP–0100(31), 1994; 240A–01–72, (R), 1972; S–0240(3) UNIT 2, 1970; S–0240(2), 1965; S–0240(4), 1967; 240A–01–67, 1970; 240A–02–71, 1972; 240A–01–71, UNIT 1, NEW CONSTRUCTION, 1979; 240A–01–71, UNIT 2, NEW CONSTRUCTION, 1979




**Road Diagram**

* MP = Milepost Signage




* NOTE: ROUTE LENGTH ADJUSTED TO MATCH TS VIDEOLOG & TS FEATURES DATABASE.

SCALE: (In Miles) 2" = 1 mile

**Divided Highway — Undivided**

Shoulder: Width and Type: 3'–6' AC; 6' AC; 7' AC; 6' AC

Pavement: Width and Type (12' AC): 24' AC (43' AC); 24' AC

Shoulder: Width and Type (0'): 3'–6' AC; 6' AC; 7' AC; 6' AC

Median: Width and Type (0–12' PAINTED MEDIAN)

Median Barriers:

Shoulder: Width and Type (0')

Pavement: Width and Type (12' AC)

Shoulder: Width and Type (3'–6' AC)

Number of Traffic Lanes: 2–12'; 2–12'; 2–12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 8' PARKING LANE

(Right Side): 8' PARKING LANE

Frontage Road: No. of Lanes, and Width (Right and Left)

Sidewalk: Width and Type (Right and Left)

Curb and/or Gutter: Type (Right and Left)

Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise, M/C = Metal Rails on Concrete Posts.

Illumination: Type, Location and Number

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62)

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2); MOUNTAINOUS (3); ROLLING (2); MOUNTAINOUS (3)

Speed: 1–Design, 2–Posted: 40 MPH (2); 25 MPH (2); 45 MPH (2); 45 MPH (2); 35 MPH (2); 45 MPH (2); 35 MPH (2); 45 MPH (2); 20 MPH (2); 35 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0240 00000; B71 0240 00131; B71 0240 00148; B71 0240 00499; B71 0240 00915

HPMS Sections – AADT 2017: 2,600; 5,400; 3,000; 1,600; 980

HPMS Sections – AADT 2016: 2,700; 3,900; 2,500; 1,600; 710

HPMS Sections – AADT 2015: 2,400; 4,400; 2,700; 1,600; 703

DOD Sections

Census Tracts

Functional Classification: MAJOR COLLECTOR (5)

National Highway System (NHS): NOT ON NHS (0)

Previous Projects: Project No., Date and Limits: 240A–01–83M (R), 1983; S–238(1), 1952,53; 240A–01–72, (R); S–0240(2) 1966; S–0240(4) UNIT 2, 1966; 240A–01–67, 1970; COUNTY

SCALE: (In Miles) 2" = 1 mile

| Date Released |
|---|
| OCT. 05, DB |

| Revised | |
|---|---|
| 7/06 | DB |
| 1/10 | DB |
| 2/11 | DB |
| 2/12 | DB |
| 9/12 | E.P.J. |
| 2/13 | E.P.J. |
| 12/13 | E.P.J. |
| 7/14 | DB |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | DB |
| 11/18 | DB |

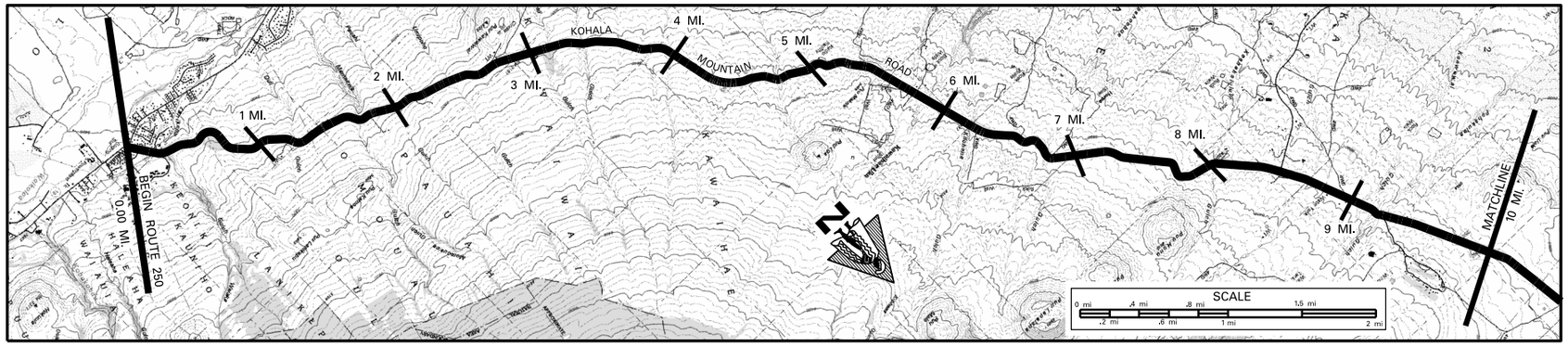
# ROAD INVENTORY
# HAWAII RTE 250
# KOHALA MOUNTAIN ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 19.276 miles
**a. Survey Length:** 19.276 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*




SCALE: (In Miles) 2" = 1 mile

**Maintenance Control Sections : Length and Description**
Begin 250A on Kohala Mountain Road 34' N.W. of West E.P. of Kawaihae Rd. — 250 A (19.23 mi.)

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: 50' Slab HS 20 1961 (5.90); 31' Culvert H20 1953 (6.82)
- Vertical Clearance: 36' (5.90); 18' (6.82)
- Horizontal Clearance:

**Structure Over Road**
- Vertical Clearance:
- Horizontal Clearance:

**Right of Way Width (min.–max.) If varies**: 60' (0.00–3.85); 80'–120' (3.85–4.54); 80'–130' (4.54–5.39); 80'–145' (5.39–6.86); 80' (6.86–7.45); Estimated 80'–140' (7.45–7.64)

**Available Right of Way Width (Needs Study)**: (Stonewall) 0.00–0.02; Mountainous Ranch / Pastureland with Trees (0.02–6.87); Heavy Trees (6.87–7.45); Mountainous Pasture with Trees (1000' Clear most of the way) (7.45–7.64)

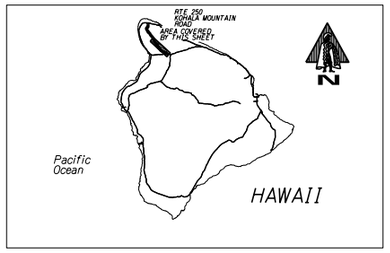
**Right of Way Fence: Type – Right and Left** W/W=Wire on Wood, E.P.=from Edge of Pavement
Wire on Wooden Posts 10'–60' from Edge of Pavement: Wood 0.00–0.25; W/W 30' E.P. 1.42–1.54; W/W 20' E.P. 2.46–2.82; W/W 50' E.P. 2.72–3.10; W/W 25' E.P. 3.28–3.85; W/W 10' E.P. 4.09–5.25; W/W 20' E.P. 5.90–6.87; None 0.25–1.42, 1.54–2.46, 2.82–2.72, 3.10–3.28, 3.85–4.09, 5.25–5.90, 6.87–7.64

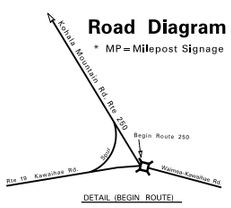
**Control of Access: 1–None, 2–Partial, 3–Full**: None

**Jurisdiction, Transfer Phase No. and Date (C to S or S to C)**: 772+34 — 570+00: State

**Project No., Type of Construction, and Year Constructed**: 250A–01–06M, PAV'T REPAIRS, 2011 (0.02–3.85)

**Project No., Type of Construction, and Year Constructed**: HWY–H–02–15M, 2017 (0.00–0.02); STP–0100 (31), 1994 Guardrail Improv. (3.85–6.40); 250A–01–91M (R) 1992 (6.40–7.64); 250A–01–92M (R) 1993 (7.64–)




BEGIN ROUTE 250 ON KOHALA MOUNTAIN ROAD AT THE NORTHWEST EDGE OF PAV'T OF KAWAIHAE ROAD. (RTE 19) (SEE DETAIL)

0.000 mi. — Ohi Aku Pl. — Lanikepu Rd. — Pueo Kawaihae Rd. — Spur to Kawaihae Rd. — 0.013 mi. — Culvert — 3000'/914m Elev. Signs — 2.162 mi. — Road to Com. Sta. — Lookout — Honokoa Bridge — 3564'/1086m Crest Signs — 6.305 mi. — Kawaihae Uka Bridge — "District of North Kohala" sign (+) — "District of South Kohala" sign (–) — Culvert — End Divided Kohala Ranch Rd. Begin Divided — Kahua Ranch Road Culvert — Culvert — 3000'/1375m Elev. Signs

KOHALA MOUNTAIN ROAD

MP: 0.013, 3, 3.5, 4, 4.5, 5 (MP & KM), 5.5, 6, 7, 8, 9, 10, 11, 12

0.421 mi., 0.933 mi., 1.084 mi., 1.434 mi., 1.933 mi., 2.161 mi., 2.434 mi., 2.936 mi., 3.427 mi., 4.433 mi., 5.065 mi., 5.331 mi., 5.432 mi., 5.881 mi., 6.306 mi., 6.434 mi., 6.812 mi., 7.433 mi., 8.044 mi., 8.240 mi., 8.364 mi., 8.435 mi., 8.483 mi., 8.575 mi., 9.203 mi., 9.245 mi., 9.472 mi., 9.620 mi., 9.770 mi., 9.797 mi.

CONTINUED ON SHEET #2.

SCALE: (In Miles) 2" = 1 mile

**Divided Highway — Undivided**
- Shoulder: Width and Type: 3' AC; 6'–10' AC; 2' AC / 4' Grs.; 2' AC / 6' Grs.
- Pavement: Width and Type: 18' AC; 24' AC; 18' AC (23' AC); 25' AC; 20' AC; 18' AC; 20' AC
- Shoulder: Width and Type: 6' AC; 3' AC; 2' AC 2' GRS; 6'–8' AC; 2' AC / 2' Grs.; 2' AC 8' Grs.; 2' AC / 4' Grs.; 6' AC; 2' AC / 2' Grs.
- Median: Width and Type: 0'–11' PNTD AC
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

**Number of Traffic Lanes**: 2–9'; 2–12'; 2–9'; (1–11') 1–13' 1–12'; 2–10'; 2–9'; 2–10'

**Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)**

**(Right Side)**: .400 .383

**Frontage Road: No. of Lanes, and Width (Right and Left)**

**Sidewalk: Width and Type (Right and Left)**: N/A

**Curb and/or Gutter: Type (Right and Left)**

**Protective Devices: Type, Location and Number** All Metal Rails on Metal Posts unless noted otherwise. M/C = Metal Rails on Concrete Posts.

**Illumination: Type, Location and Number**

**Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62)**: DA C AC AD 0.20–0.70; AD A 0.70–0.82; AD 0.82–1.07; A 1.07–1.33; DA D 1.33–1.71; C 1.71–1.82; A 1.82–2.27; C 2.27–2.57; AB 2.57–2.80; A 2.80–3.31; BA CAB 3.31–3.57; BA CA 3.57–3.74; C 3.74–3.96; A 3.96–4.25; B 4.25–4.70; AC AEA CA 4.70–4.82; DE 4.82–5.10; DAD AC 5.10–5.46; AB 5.46–6.02; DA 6.02–6.49; DE 6.49–6.71; ACE 6.71–6.86; A 6.86–7.20; C 7.20–7.41; DA 7.41–7.74; EAD A 7.74–7.88; DA 7.88–8.33; BAB 8.33–8.87; A 8.87–9.26; DEB 9.26–9.70; A 9.70–

**Superelevation (Range)**

**Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45)**: B 0.01–0.29; D 0.29–1.28; C 1.28–1.53; D 1.53–1.66; C 1.66–1.82; D 1.82–2.62; C 2.62–2.80; A 2.80–2.96; B 2.96–3.10; C 3.10–3.80; D 3.80–4.12; C 4.12–4.57; A 4.57–4.70; B 4.70–5.41; C 5.41–5.62; A 5.62–5.77; B 5.77–5.92; C 5.92–6.70; B 6.70–7.20; C 7.20–7.26; D 7.26–8.28; B 8.28–8.68; C 8.68–8.87; B 8.87–9.04; C 9.04–9.25; D 9.25–9.35; B 9.35–9.46; C 9.46–9.70; C 9.70–9.86; D 9.86–9.93; B 9.93–9.97; D 9.97–10.00; C

**Vertical Curve: Crest or Sag, Curve Limits**

**Area and Development**: Small Urban (99998) 0.24–1.77; Rural (99999) 1.77–

**Terrain: 1–Flat, 2–Rolling, 3–Mountainous**: Rolling (2) 0.24–2.92; Mountainous (3) 2.92–5.74; Rolling (2) 5.74–

**Speed: 1–Design, 2–Posted**: 25 MPH (2) Not Posted 0.24–.333; 35 MPH (2) .333–.497; 40 MPH(2) .497–

**Intersection Control Devices: Type, Location and Cycle Timing**

**Traffic Stations (Current Year)**: B71 0250 00008; B71 0250 01706

**HPMS Sections – AADT 2017**: 2,300; 2,400

**HPMS Sections – AADT 2016**: 3,200 (0.22); 2,400

**HPMS Sections – AADT 2015**: 2,300; 2,300

**DOD Sections**

**Census Tracts**

**Functional Classification**: Major Collector (5)

**National Highway System (NHS)**: Not On NHS (0)

**Previous Projects: Project No., Date and Limits**
- 0.29 (FAP E–11A, 1933) 776+09.39
- 3.85 FAP E–11A 1932
- 3.85–3.96 (250A–01–91M (R) 1992)
- 250A–01–91M (R) 1991
- 250A–01–73, 1973
- 3.85 S–239(1) 1954, 56 4.54 (570+00; 593+37.97)
- 4.62 250A–01–75M, 1975 5.35 (S–0250 (2), 1961) 5.37 (468+50)
- (250A–01–72 (R), 1972) 5.83
- 250A–01–91M (R) 1992
- 250A–01–75M, 1975 6.39
- 5.85 S–0250 (1), 1956 6.40 (439+06.82)
- 7.64
- 250A–01–72 (R) 1972
- 8.76
- 250A–03–72 (R) 1972

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| Nov. 2003 | D.B. |
| **Revised** | |
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 2/13 | E.P.J. |
| 12/13 | E.P.J. |
| 8/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY

# HAWAII RTE. 250

## KOHALA MOUNTAIN ROAD AND HAWI ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

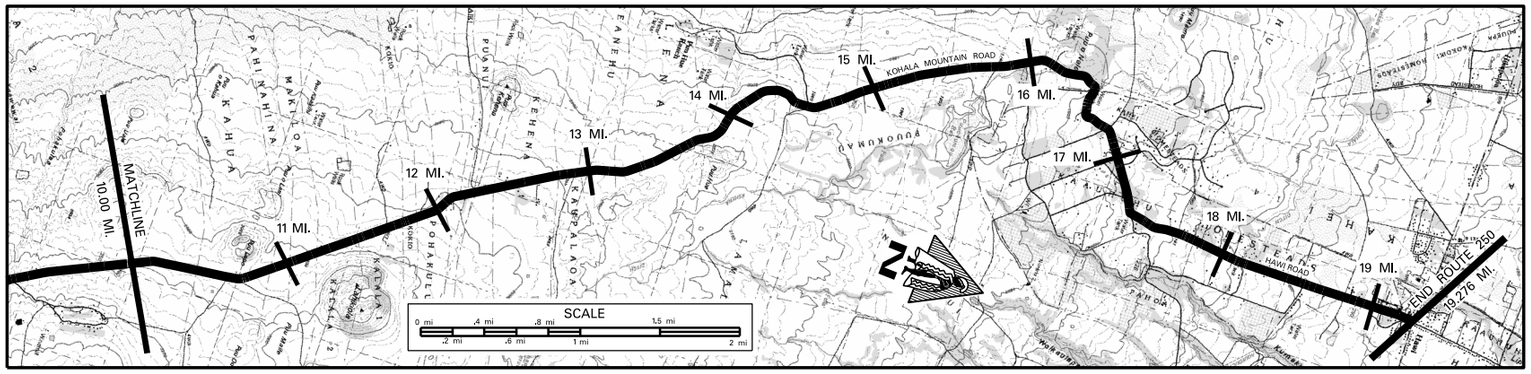
**Total Route Length:** 19.276 miles

a. **Survey Length:** 19.276 miles

b. **Proposed Length:** 0.00 miles

c. **Other Length:** * 0.00 miles

*




SCALE: (In Miles) 2" = 1 mile

**Maintenance Control Sections : Length and Description**

250A (19.23 mi.)

**Structure Carrying Road**

- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

**Structure Over Road**

- Vertical Clearance
- Horizontal Clearance

**Right of Way Width (min.–max.) If varies**: Estimated 80'–140'; Estimated 80'–100'

**Available Right of Way Width (Needs Study)**: Mountainous, Pasture w/ Trees (1000' Clear, Most of the Way)

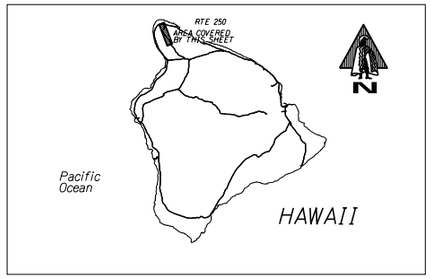
**Right of Way Fence: Type – Right and Left** (W/W=Wire on Wood, E.P.=from Edge of Pavement): W/W 20' E.P.; W/W 19'–50' E.P.; W/W 15' E.P.; W/W 15' E.P.; W/W 12' E.P.; W/W 20' E.P.; W/W 10' E.P.; W/W 12' E.P.

**Control of Access: 1–None, 2–Partial, 3–Full**: None

**Jurisdiction, Transfer Phase No. and Date (C to S or S to C)**: State (200+00); (121+50)

**Project No., Type of Construction, and Year Constructed**: 250A–01–02M, Resurface 2005

**Project No., Type of Construction, and Year Constructed**: 250A–01–92M,(R) 1993; 250A–01–96M, Resurface 2000; 250A–01–89M (R) 1989; 250A–01–91M (R) 1992




**Road Diagram**

* MP = Milepost Signage

10.000 MI. CONTINUED FROM SHEET #1

Culvert; Culvert Ranch Road; Driveway 2500'/762m Elev. Signs 12.472 mi.; Culvert Ranch Road; Pu'uhue Rd. 2000'/610m Elev. Signs (L&R); Rd. to FAA Station; Bates Road (L) Mt Road (R) 1500'/457m Elev. Signs 16.739 mi.; Ka'auhuhu Homestead Rd.; Pu'u Manao Drive Kam. Preschool Ent.; Kainoa Road; EL Substation; Kynnersly Rd.; Red Cinder Rd.; Future Development Ka'auhuhu Road Hook Rd.; Ku'upualani Pl.; Banana Ranch Rd.

KOHALA MOUNTAIN ROAD — HAWI ROAD

13 MP 21 km; 14 MP; 15 MP; 16 MP; 17 MP; 18 MP 29 km; 19 MP; 20 MP; 21 MP; 21.84 MP

10.489 mi.; 10.433 mi.; 11.434 mi.; 11.669 mi.; 11.792 mi.; 12.471 mi.; 12.441 mi.; 12.631 mi.; 12.919 mi.; 12.819 mi.; 13.436 mi.; 14.575 mi.; 14.471 mi.; 14.431 mi.; 15.442 mi.; 16.170 mi.; 16.506 mi.; 16.433 mi.; 16.894 mi.; 16.888 mi.; 16.826 mi.; 16.741 mi.; 17.071 mi.; 17.435 mi.; 17.371 mi.; 17.315 mi.; 17.280 mi.; 17.703 mi.; 18.594 mi.; 18.535 mi.; 18.434 mi.; 18.858 mi.; 19.271 mi.; 19.158 mi.

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH "IS VIDEOLOG & "IS FEATURES DATABASE.
END ROUTE 250 ON HAWI ROAD AT THE SOUTH EDGE OF PAVEMENT OF AKONI PULE HWY. (RTE 270)
*19.276 MI.

SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**

- Shoulder: Width and Type: 2' AC/6' Grs.; 1' AC / 4' Grs.; 1' AC / 2' Grs.; 2' AC / 2' Grs.; 2' AC/8' Grs.; 1' AC / 2' Grs.; 2' AC / 4' Grs.; 2' AC / 6' Grs.; 0; 6' AC
- Pavement: Width and Type: 20' AC; 22' AC; 20' AC
- Shoulder: Width and Type: 2' AC / 2' Grs.; 6' Grs.; 4' Grs.; 2' AC / 4' Grs.; 2' AC/10' Grs.; 2' Grass
- Median: Width and Type: (4' AC); (15'–20' AC)
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

**Number of Traffic Lanes**: 2–10'; 2–11'; 2–10'

**Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)**

**(Right Side)**

**Frontage Road: No. of Lanes, and Width (Right and Left)**

**Sidewalk: Width and Type (Right and Left)**

**Curb and/or Gutter: Type (Right and Left)**: N/A; M/C; C; AC C

**Protective Devices: Type, Location and Number** (All Metal Rails on Metal Posts unless noted otherwise. M/C=Metal Rails on Concrete Posts.)

**Illumination: Type, Location and Number**

**Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)**: AC A A CA C A BA CA BA CA C AC A CA DAD AC A C AC AE DE DCD FD CAD A CAB A BC AB A BAB

**Superelevation (Range)**

**Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)**: C B D C D C C D C D C C C D E D E F E D

**Vertical Curve: Crest or Sag, Curve Limits**

**Area and Development**: Rural (99999)

**Terrain: 1–Flat, 2–Rolling, 3–Mountainous**: Rolling (2)

**Speed: 1–Design, 2–Posted**: 40 MPH (2); 35 MPH (2); 40 MPH (2); 35 MPH (2); 40 MPH (2); 35 MPH (2); 25 MPH (2)

**Intersection Control Devices: Type, Location and Cycle Timing**

**Traffic Stations (Current Year)**: B71 0250 01706; B71 0250 01736; B71 0250 01885

**HPMS Sections – AADT 2017**: 2,400; 1,600; 2,800

**HPMS Sections – AADT 2016**: 2,400; 1,500; 2,700

**HPMS Sections – AADT 2015**: 2,300; 1,448; 2,500

**DOD Sections**

**Census Tracts**

**Functional Classification**: Major Collector (5)

**National Highway System (NHS)**: Not On NHS (0)

**Previous Projects: Project No., Date and Limits**

250–01–86M, (Resurface) 1986; 250A–01–89M (R) 1989; 250A–01–86M, 1986 (R); S239(1), 1956; 250A–01–74, 1974; 250A–01–73 1973); (250A–03–72 (R) 1972); S–239(1), 1954; 250A–01–72, 1972; County

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| Nov. 2003 | D.B. |
| **Revised** | |
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 2/13 | E.P.J. |
| 12/13 | E.P.J. |
| 8/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

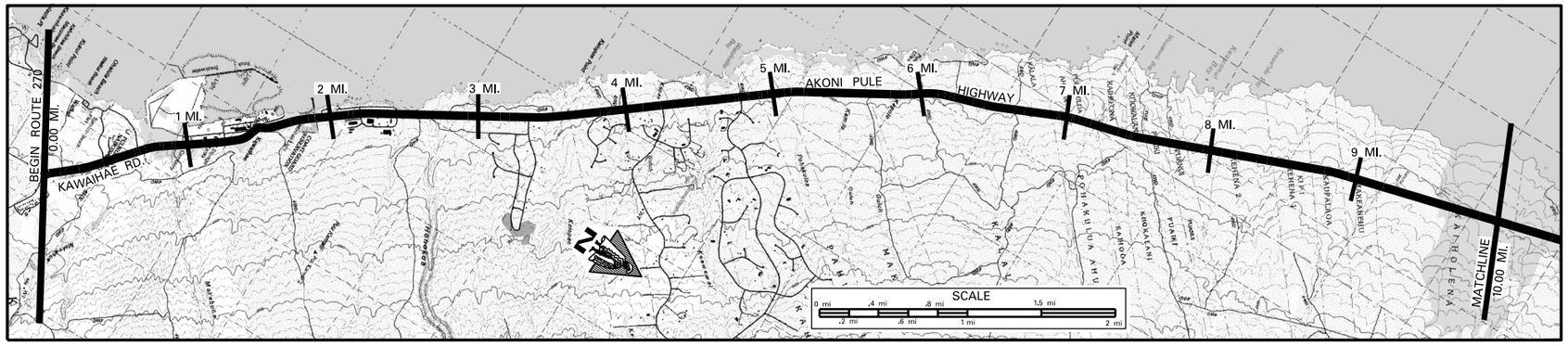
# ROAD INVENTORY
# HAWAII RTE 270
# KAWAIHAE ROAD–AKONI PULE HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 27.003 miles
**a. Survey Length:** 27.003 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*



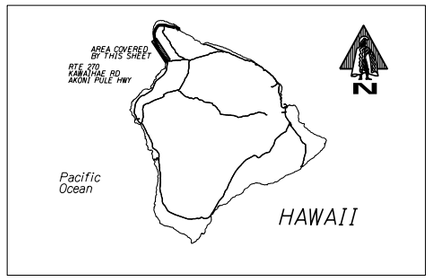

SCALE: (In Miles) 2" = 1 mile

**Maintenance Control Sections : Length and Description**
BEGIN 27A SAME AS BEGIN RTE 270 — 27 A (1.50 MI.) — END 27A – BEGIN 270A AT CENTERLINE ROAD TO KAWAIHAE WHARF. — 270A (11.44 MI.)

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: TEE BEAM 1960 HS–20 59'; SLAB 1960 HS–20 31'; SLAB 1960 HS–20 52'; PRESTRESSED BEAM 1965, HS–20 165'
- Vertical Clearance
- Horizontal Clearance: 28' 40' 40' 28'

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

**Right of Way Width (min.–max.) If varies:** 60' – 80' | 60' | 80' – 180'
**Available Right of Way Width (Needs Study):** BRUSH & TREES | RES. AREA | BRUSH & TREES | RES. AREA | CLEAR 1000' BUSHES & SMALL TREES (SOME CUT SLOPES)
**Right of Way Fence: Type – Right and Left:** (CHAINLINK 10' FROM E.P.) (STONE WALL 10' FROM E.P.) (STONE WALL 10' FROM PAVMT.) (CHAINLINK 10' FROM PAVMT.) (STONE WALL)
**Control of Access: 1–None, 2–Partial, 3–Full:** NONE
**Jurisdiction, Transfer Phase No. and Date (C to S or S to C):** STATE (COUNTY TO STATE, PHASE 2)
**Project No., Type of Construction, and Year Constructed:** (NH–019–1(29), GUARDRAIL & SHLDR, IMPR., 2006) (FLH–0270(17), INTER. IMP., 2006) STP–0270(019), PAVEMENT PREVENTIVE MAINTENANCE, 2013
**Project No., Type of Construction, and Year Constructed:** (19CD–01–97M, RESURF., 1999) (STP–0270(13), SHLDR. IMPRV., 1998) 270A–01–99M, RESURF., 2001 (270A–01–99M, RESURF., 2001) 270A–01–96M, (R), 1997 HWY–H–02–15M, 2017




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**
* MP = Milepost Signage

BEGIN ROUTE 270 ON KAWAIHAE ROAD AT THE NORTHWEST EDGE OF PAVMT OF QUEEN KAAHUMANU HIGHWAY (RTE 19). 0.000 MI.

END DIVIDED HWY 0.096 MI. | BEGIN DIVIDED 0.033 MI. | ROAD TO PU'UKOHOLA HEIAU & SPENCER PARK 0.212 MI. | END DIVIDED 0.267 MI. | POHAUKOLE BRIDGE 0.416 MI. | TELEM. STA. 270007 0.774 MI. | ACCESS RD. 0.520 MI. | SMALL BOAT HARBOR 0.682 MI. | MAKAHUNA BRIDGE 0.757 MI. | ROAD TO KAWAIHAE HARBOR 0.849 MI. | ROAD TO PORT OF KAWAIHAE 0.973 MI. | KAWAIHAE BRIDGE 1.254 MI. | ROAD TO KAWAIHAE RD. 1.362 MI. | CULVERT 1.425 MI. | CULVERT 1.506 MI. | CULVERT 1.588 MI. | KAEWA PL. 1.719 MI. | KALAEOLO ST. (L) MALUOKALANI ST. (R) 1.944 MI. | CULVERT 2.084 MI. | MALUOKALANI ST. (R) 2.202 MI. | CULVERT 2.299 MI. | HONOKOA ST. (L) 2.452 MI. | HONOKOA BRIDGE 2.643 MI. | BEGIN DIVIDED 3.126 MI. | KALOOLO'O DR. 3.103 MI. | END DIVIDED 3.342 MI. | BEGIN DIVIDED 3.591 MI. | "DISTRICT OF SOUTH KOHALA" SIGN 3.665 MI. | KAHONU PL. 3.840 MI. | END DIVIDED 3.953 MI. | KOHALA BY TRAVEL (R) 4.110 MI. | ALA KAHUA DR. 4.249 MI. | KALANI PL. 4.369 MI. | END DIVIDED 4.490 MI. | BEGIN DIVIDED 4.629 MI. | KOHALA RANCH RD. 4.777 MI. | END DIVIDED 4.999 MI. | CULVERT 5.103 MI. | CULVERT 5.273 MI. | CULVERT 6.099 MI. | CULVERT 6.237 MI. | CULVERT 6.562 MI. | CULVERT 6.686 MI. | CULVERT 6.954 MI. | CULVERT 7.109 MI. | CULVERT 7.627 MI. | CULVERT 8.100 MI. | CULVERT 8.045 MI. | ROAD TO FUTURE DEVELOPMENT 9.186 MI. | CULVERT 9.099 MI. | KAHIOLENA PLACE 9.371 MI. | CULVERT 9.751 MI. | CONTINUED ON SHEET #2 9.936 MI.

KAWAIHAE ROAD — AKONI PULE HWY

SCALE: (In Miles) 2" = 1 mile

**Divided Highway – Undivided**
- Shoulder: Width and Type: 7' AC | 6' AC | 7' AC | 5' CORAL | 6' SEAL COAT | 12' AC | 6' SEAL COAT | 6' AC | 6' SEAL COAT
- Pavement: Width and Type: (11' AC) 22' AC | 11' AC | 22' AC | 22' BP | 24' AC | 14' AC | (24' AC) 12' AC | 12' AC | 24' AC | 12' AC | 24' AC
- Shoulder: Width and Type: (0) 7' AC | 0 | 7' AC | 5' CORAL | 6' SEAL COAT | 0 | (6' SEAL COAT) 0 | 0 | 6' SEAL COAT | 0 | 6' AC | 6' SEAL COAT
- Median: Width and Type: (0'–8' PAINTED AC) | 0'–10' PAINTED AC | 0'–16' PAINTED AC | 0'–15' PAINT | 0'–11' PAINT | 0'–10' PAINT
- Median Barriers:
- Shoulder: Width and Type: (0) 0 | 0 | 0 | 0
- Pavement: Width and Type: (11' AC) 11' AC | 14' AC | 12' AC | 12' AC | 12' AC
- Shoulder: Width and Type: (6' AC) 6' AC | 10' AC | 6' SEAL COAT | 6' SEAL COAT | 6' AC

**Number of Traffic Lanes:** 2–11' | (6' SEAL COAT) | 2–12'
**Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)**
**(Right Side):** 1–10' (L) TL | 11' LNS. | 10' T.L. | 12' T.Ls. | 12' T.Ls.
**Frontage Road: No. of Lanes, and Width (Right and Left)**
**Sidewalk: Width and Type (Right and Left):** 3' C. SW | METAL RAILS ON CONCRETE POSTS
**Curb and/or Gutter: Type (Right and Left):** AC G. | AC C. | C. G. | AC G. | AC C.
**Protective Devices: Type, Location and Number** All Metal Rails on Metal Posts unless noted otherwise.
**Illumination: Type, Location and Number:** 4MV | 1MV
**Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62):** (D) A | CA | FB | A
**Superelevation (Range):** +1 | +2
**Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45):** D C D B A C B A B A B C B C B A B D B C B A B A B A B A B C B
**Vertical Curve: Crest or Sag, Curve Limits**
**Area and Development:** SMALL URBAN (99998) | RURAL (99999)
**Terrain: 1–Flat, 2–Rolling, 3–Mountainous:** ROLLING (2) | FLAT (1) | ROLLING (2)
**Speed: 1–Design, 2–Posted:** (Not Posted) 35 MPH (2) | 35 MPH (2) (30 MPH (2)) (45 MPH (2)) (55 MPH (2)) | 55 MPH (2) (40 MIN (2))
**Intersection Control Devices: Type, Location and Cycle Timing**
**Traffic Stations (Current Year):** P71 0270 00076 | B71 0270 00150 | B71 0270 01294
**HPMS Sections – AADT 2017:** 7,500 | 6,000 | 3,258
**HPMS Sections – AADT 2016:** 7,500 | 5,100 | 3,100
**HPMS Sections – AADT 2015:** 7,400 | 5,790
**DOD Sections**
**Census Tracts**
**Functional Classification:** PRINCIPAL ARTERIAL (3) | MINOR ARTERIAL (4)
**National Highway System (NHS):** ON NHS (1) | NOT ON NHS (0)
**Previous Projects: Project No., Date and Limits:** (270A–01–99M, RESURF., 2001) 0.01 0.17 0.53 270A–01–99M, RESURF., 2001 1.52 STP–0270(13), SHLDR. IMPRV., 1998 1.51 270A–01–96M, 1997, (R) 4.76 5.00 STP–0270(13), 1998, (SHLDR. IMPRV.) 9.51 270A–01–83M, 1983, (R) 27A–01–88M, 1988, (R) 270A–01–83M, RESURF., 1983 WDRC–12(1), 1947 0.64 0.79 270A–01–72, 1972, (R) WDRC 12(1), 1947 270A–01–79, SHLDR. STAB., 1980 FAP 11 B, 1933 0.70 S–0260(1), 1959 1.50 FAP 110, 1937 1.91 A270–01–62, 1967, 68 0 + 00 22 + 00 63 + 54.46 (HHS–027–1(1), SAFETY IMPRV.)

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| SEPT 05 | D.B. |
| **Revised** | |
| 7/06 | D.B. |
| 1/07 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 8/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

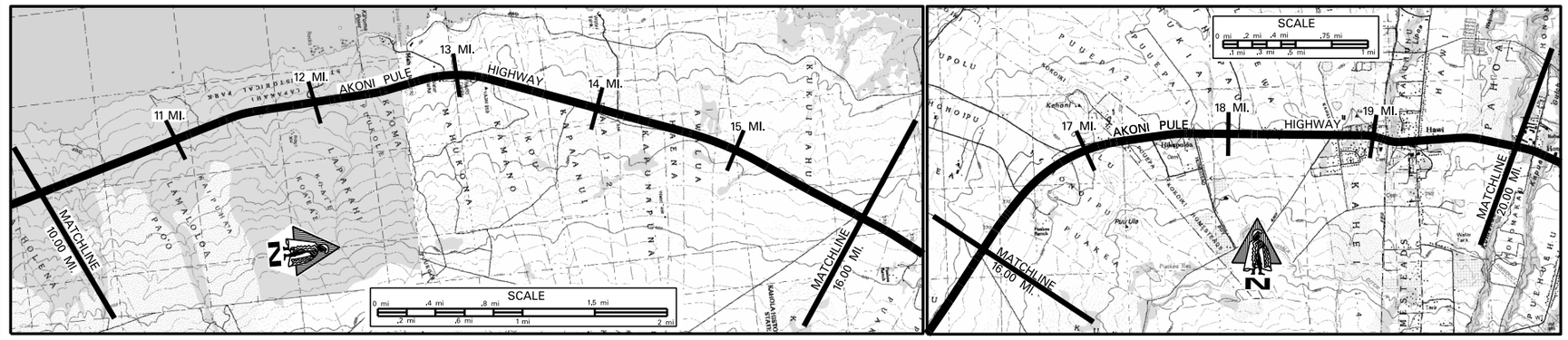
# ROAD INVENTORY
# HAWAII RTE 270
# AKONI PULE HIGHWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 27.003 miles
**a. Survey Length:** 27.003 miles
**b. Proposed Length:** 0.00 miles
**c. Other Length: *** 0.00 miles
*



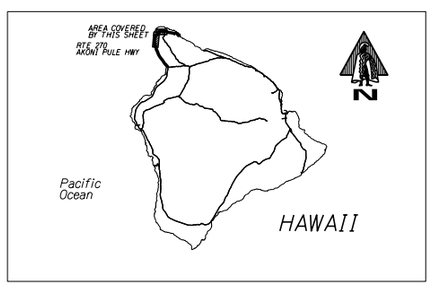

SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 270A (11.44 MI.); END 270A – BEGIN 270B AT THE CENTERLINE OF ACCESS RD. TO MAHUKONA WHARF.; 270 B (14.10 MI.)

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

| | |
|---|---|
| Right of Way Width (min.–max.) If varies | 80'–180'; 60'–200' |
| Available Right of Way Width (Needs Study) | CLEAR 1000', GRASS AND FEW TREES, 50' FROM EDGE OF PAVEMENT |
| Right of Way Fence: Type – Right and Left | WIRE ON WOOD 50' FROM EDGE OF PAVEMENT; WIRE ON WOOD 50' FROM EDGE OF PAVEMENT |
| Control of Access: 1–None, 2–Partial, 3–Full | |
| Jurisdiction, Transfer Phase No. and Date (C to S or S to C) | COUNTY TO STATE PHASE 2; STATE; COUNTY TO STATE PHASE 2 |
| Project No., Type of Construction, and Year Constructed | STP–0270(019), PAVEMENT PREVENTIVE MAINTENANCE, 2013; STP–0272(020), RESURFACE, 2013 |
| Project No., Type of Construction, and Year Constructed | HWY–H–02–15M, 2017; 270B–01–69M, RESURFACE, 1997; HWY–H–02–15M, 2017 |




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**
* MP = Milepost Signage

CONTINUED FROM SHEET #1 — 10.000 MI.

CULVERT 10.150 MI. / 10.395 MI.; CULVERT 10.365 MI.; CULVERT 10.646 MI.; CONCRETE DRIVEWAY 10.943 MI.; 13 MP 21 km 11.076 MI.; CULVERT 11.889 MI.; LAPAKAHI HISTORIC STATE PARK 12.096 MI. / 12.029 MI.; 12 MP; ACCESS ROAD TO MAHUKONA WHARF 12.921 MI.; 15 MP 13.094 MI.; CULVERT 13.536 MI. / 13.445 MI.; TWIN CULVERT; PAVED ROAD 13.784 MI.; KAPAA PARK ROAD (L&R) (R) 14.152 MI. / (L) 14.146 MI. / 14.096 MI.; 16 MP; AKONI PULE HIGHWAY; 17 MP 15.114 MI.; PUALANI RD. (L) PU'UHUE–HONOPU RD (R) 15.848 MI.; 15 MP 29 km 16.079 MI.; T.C. PUAKEA BAY DR. (L) PAVED ROAD (R) (DRIVEWAY) 16.466 MI. / 16.460 MI.; PAVED RD. (R) OLD COAST GUARD RD. (L) 16.879 MI.; 19 MP 17.076 MI.; 'ILIKINI RD. KAHUA RD. (L) SMITH RD. (R) 17.299 MI. / 17.467 MI.; LINCOLN AVE 17.758 MI.; 17.75; UPOLU AIRPORT RD. 18.098 MI. / 18.074 MI.; HUALUA ROAD MALIU RD. 18.752 MI. / 18.725 MI.; ILINA RD. 18.964 MI.; 20 MP 19.101 MI.; HUA LN. KAHEI RD. HO'EA RD. 19.178 MI. / 19.123 MI. / 19.090 MI.; HAWI RD. (R) & (L) 19.332 MI. / 19.309 MI.; WATER SUPPLY RD. SUBSTATION WAIPELE ST. 19.632 MI. / 19.604 MI. / 19.581 MI.; KUMAKUA ST. 19.808 MI.

CONTINUED ON SHEET #3 — 20.000 MI.

SCALE: (In Miles) 2" = 1 mile

**Divided Highway**

| | |
|---|---|
| Undivided – Shoulder: Width and Type | 6' SEAL COAT; 10' GRAVEL; 10' GRASS; 10' GRASS; 0; 8' BP |
| Undivided – Pavement: Width and Type | 24' AC; 24' AC |
| Undivided – Shoulder: Width and Type | 6' SEAL COAT; 10' GRAVEL; 10' GRASS; 8' GRASS; 0; 8' GRASS |
| Median: Width and Type | (6' GRASS); (3' GRASS) |
| Median Barriers: | |
| Shoulder: Width and Type | |
| Pavement: Width and Type | |
| Shoulder: Width and Type | |
| Number of Traffic Lanes | 2–12' |
| Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) | (2–14'); 2–13'; 8' PARK |
| (Right Side) | 2–12'; 8' PARK |
| Frontage Road: No. of Lanes, and Width (Right and Left) | |
| Sidewalk: Width and Type (Right and Left) | 4' AC SW; 5' C. SW |
| Curb and/or Gutter: Type (Right and Left) | METAL RAILS ON CONC. POSTS; AC G.; M/C; 1.405 AC G. .474; 1.233 C. C. .388; 1.337 AC C. .389 |
| Protective Devices: Type, Location and Number | All Metal Rails on Metal Posts unless noted otherwise. M/C = Metal Rails on Concrete Posts. |
| Illumination: Type, Location and Number | 1 M.V.; M.V. |
| Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) | A |
| Superelevation (Range) | |
| Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) | B; A; B; A; B; A; A; C; A; C; B; C; B; C; B; A; B; A; B; C; B; D; C; A |
| Vertical Curve: Crest or Sag, Curve Limits | |
| Area and Development: | RURAL (99999) |
| Terrain: 1–Flat, 2–Rolling, 3–Mountainous | ROLLING (2) |
| Speed: 1–Design, 2–Posted | 55 MPH (2) (MIN. 40 MPH (2)); (55 MPH (2)); 45 MPH (2); 35 MPH (2); 25 MPH (2); 35 MPH (2) |
| Intersection Control Devices: Type, Location and Cycle Timing | |
| Traffic Stations (Current Year) | B71 0270 01294; B71 0270 01912; B71 0270 01982 |
| HPMS Sections – AADT 2017 | 3,258; 4,848; 6,900 |
| HPMS Sections – AADT 2016 | 3,100; 4,800; 5,700 |
| HPMS Sections – AADT 2015 | 5,790; 4,800; 6,100 |
| DOD Sections | |
| Census Tracts | |
| Functional Classification | MINOR ARTERIAL (4); MAJOR COLLECTOR (5) |
| National Highway System (NHS) | NOT ON NHS (0) |
| Previous Projects: Project No., Date and Limits | 270A–01–83M, RESURFACE, 1988; 270A–01–79 SHLDR, STAB, 1980; A–270–01–62 1967, 68; S–0270(7) 1972, 73; S–0270(3), 1972; RS–STP–0270(11), RESURFACE, 1996; S–203(2), 1951 |

| Date Released |
|---|
| SEPT 05, D.B. |

| Revised | |
|---|---|
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 6/13 | E.P.J. |
| 8/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

SCALE: (In Miles) 2" = 1 mile

# ROAD INVENTORY
# HAWAII RTE 270
# AKONI PULE HWY.

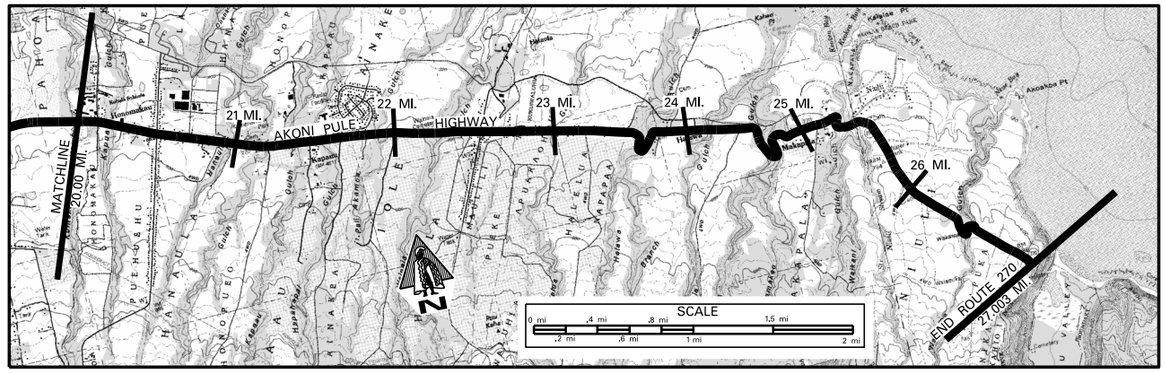
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 27.003 miles
- a. Survey Length: 27.003 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*




SCALE: (In Miles) 2" = 1 mile

**Maintenance Control Sections : Length and Description**

270 B (14.10 MI.) — END 270 B SAME AS END RTE 270

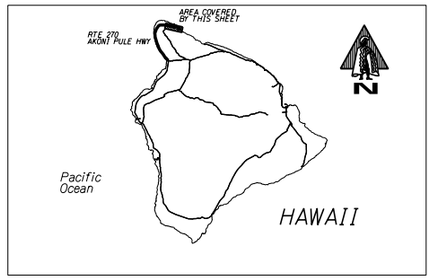
**Structure Carrying Road**

| | |
|---|---|
| Bridges (Over 20'): Length, Type, Capacity and Year Constructed | TWIN ARCH CULVERTS 1980; TEE BEAM 1919, ES–H10; TEE BEAM 1918, ES–H10; TEE BEAM 1918, ES–H10 |
| Vertical Clearance | 26'; 160'; 80'; 22' 33' |
| Horizontal Clearance | 36'; 18'; 18'; 18' 18' |

**Structure Over Rte**

| | |
|---|---|
| Vertical Clearance | |
| Horizontal Clearance | |

| | |
|---|---|
| Right of Way Width (min.–max.) If varies | 40'–100' |
| Available Right of Way Width (Needs Study) | 1000' CLEAR GRS. & TREES, 50' FROM E.P.; RESIDENTIAL AREA; 1000' CLEAR, BRUSH & GRASS 30' FROM EDGE OF PAVEMENT; RESIDENTIAL DISTRICT |
| Right of Way Fence: Type – Right and Left | WIRE ON WOOD 50' FROM E.P.; WIRE ON WOOD 50' FROM E.P. |
| Control of Access: 1–None, 2–Partial, 3–Full | NONE |
| Jurisdiction, Transfer Phase No. and Date (C to S or S to C) | STATE |
| Project No., Type of Construction, and Year Constructed | STP–0270(020), RESURFACE, 2013; (BR–0270(18), MAJOR SEISMIC RETROFIT, 2009); BR–0270(18), MAJOR SEISMIC RETROFIT, 2009) |
| Project No., Type of Construction, and Year Constructed | HWY–H–02–15M, 2017; 270B–01–93M, RESURFACE, 1994 |




**Road Diagram**

* MP = Milepost Signage

CONTINUED FROM SHEET # 2

20.000 MI. KOHALA HIGH SCHOOL; 20.126 MI. HONOMAKAU RD. (L); 20.231 MI. PUEHUENU PL. (R); 20.454 MI. ROAD TO KOHALA; 20.500 MI. PUAHENUE RD. (R); (L)20.704 MI. UNION MILL ROAD (L); (R)20.700 MI. ROAD TO UNION MILL; 20.800 MI. HINAINA RD. (R); 20.847 MI. HINAINA RD. (L); 20.874 MI. KAWAIHAE RD. (L); 20.893 MI. KAWAIHAE RD. (R); 20.934 MI. KAWAIHAE RD. (L); 20.974 MI. KAWAIHAE RD. (R); 21.000 MI. KEKOA UHANE RD.; 21.083 MI. ROAD TO KOHALA; 21.183 MI. BALCHUK RD. (R); 21.187 MI. ROAD TO KOHALA SIGN; 21.277 MI. OMACHI RD. (L); 21.377 MI. OMACHI RD. (R); 21.415 MI. HALL RD. (R); 21.468 MI. KAMEHAMEHA PARK RD; 21.537 MI. HOLY NAME PLACE; 21.584 MI. HOLY BAKERY RD.; 21.675 MI. HOSPITAL RD. (L); 21.765 MI. HOSPITAL RD. (R); 21.875 MI. AINAKEA DR. (RESN. ACCESS RD.); 22.015 MI. END DIVIDED; 22.098 MI. IOLE ROAD; 22.542 MI. OLD HALAULA MILL; 22.589 MI. HALAULA–MAULILI RD (R); 22.994 MI. MAULILI P. (R); 23.097 MI. CULVERT; 23.445 MI. NIU LANI; 23.642 MI. CULVERT; 23.802 MI. AKAMA PLACE; 23.854 MI. CULVERT; 23.935 MI. GREENSBANK RD.; 24.123 MI. WAILAOHIA BRIDGE; 24.389 MI. 24.658 MI. AAMAKOA BRIDGE; 25.004 MI. MAKAPALA RD; 25.088 MI. CULVERT; 25.104 MI. ROAD TO/FROM KEOKEA PARK RD.; 25.379 MI. NIULII BRIDGE; 25.452 MI. WAIKANE BRIDGE; 25.404 MI. 25.535 MI. 26.097 MI. WAIKAMA RD.; 26.066 MI. 26.459 MI. BRIDGE; 26.984 MI. END ROUTE 270 ON AKONI PULE HWY. AT THE ENTRANCE TO "POLOLU VALLEY LOOKOUT" *27.003 MI.

AKONI PULE HIGHWAY

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE.

SCALE: (In Miles) 2" = 1 mile

**Divided Highway — Undivided**

| | |
|---|---|
| Shoulder: Width and Type | 8' BP; 10' GRS.; 8' GRASS; 10' GRASS; 4' GRS.; 8' GRS.; 6' GRASS; 8' GRS.; 4' GRS.; 3' GRASS; 5' GRASS; 4' GRASS |
| Pavement: Width and Type | 24' AC; 24' AC; 20' AC |
| Shoulder: Width and Type | 6' GRS; 10' GRASS; 10' DIRT; 6' GRASS; 6' GRS; 6' GRS; 6' GRASS; 8' GRASS; 8' BP; 6' GRASS; 3' GRS.; 4' GRS.; 6' GRS.; 5' GRS.; 4' GRS.; 3' AC; 3' GRS.; 5' GRASS; 4' GRASS |
| Median: Width and Type | 11' PAINT |
| Median Barriers: | |
| Shoulder: Width and Type | |
| Pavement: Width and Type | |
| Shoulder: Width and Type | 6' GRASS |

| | |
|---|---|
| Number of Traffic Lanes | 2–12'; 2–12'; 2–11'; 2–10' |
| Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) | (1–12' PARK); 11' TLs; 12' PARK |
| (Right Side) | |
| Frontage Road: No. of Lanes, and Width (Right and Left) | |
| Sidewalk: Width and Type (Right and Left) | .344 .400 .465 5' C, SW; .465 5' C, SW; 4' C, SW |
| Curb and/or Gutter: Type (Right and Left) | .344 .400 .465 C, C.; .465 C, C.; AC C. |
| Protective Devices: Type, Location and Number | All Metal Rails on Metal Posts unless noted otherwise. |
| Illumination: Type, Location and Number | MV; MV |
| Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) | AB; A; EA FA CB DE; A; BA E B AE FB A CA F DAD A BAC A E FE A DB |
| Superelevation (Range) | |
| Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) | A B b B C CB D B D C B F D B AB C B DE B (E) |
| Vertical Curve: Crest or Sag, Curve Limits | |
| Area and Development: | RURAL (99999) |
| Terrain: 1–Flat, 2–Rolling, 3–Mountainous | ROLLING (2) |
| Speed: 1–Design, 2–Posted | 35 MPH (2); 25 MPH (2); 35 MPH (2); (Not Posted) |
| Intersection Control Devices: Type, Location and Cycle Timing | |
| Traffic Stations (Current Year) | B71 0270 01982; B71 0270 02210; B71 0270 02509; B71 0270 02540 |
| HPMS Sections – AADT 2017 | 6,900; 3,700; 1,200; 620 |
| HPMS Sections – AADT 2016 | 5,700; 3,500; 1,300; 570 |
| HPMS Sections – AADT 2015 | 6,100; 3,000; 980; 490 |
| DOD Sections | |
| Census Tracts | |
| Functional Classification | MAJOR COLLECTOR (5) |
| National Highway System (NHS) | NOT NHS (0) |
| Previous Projects: Project No., Date and Limits | RS-STP-0270(111), RESURFACE, 1996; 270B–01–77M, (R), 1977; (270B–01–77M, (R), 1977); 270B–01–77M, (R), 1977; FAS–G–3260–01–60, 1961; COUNTY; (HWY–H–02–70(X), (REHAB & RESURFACE), 1971); (HWY–H–02–70(X), (REHAB & RESURFACE), 1971) |

SCALE: (In Miles) 2" = 1 mile

| Date Released | |
|---|---|
| SEPT. 05, | D.B. |

| Revised | |
|---|---|
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 8/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY
# HAWAII RTE 1370
# KALANIANAOLE STREET

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

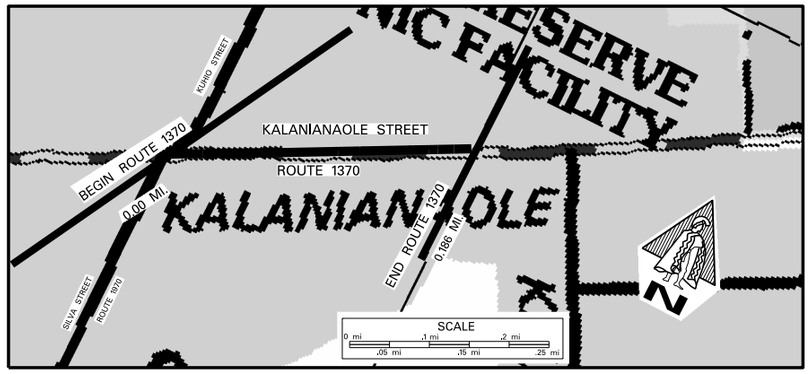
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 0.186 **miles**

**a. Survey Length:** 0.186 **miles**

**b. Proposed Length:** 0.00 **miles**

**c. Other Length:** 0.00 **miles**



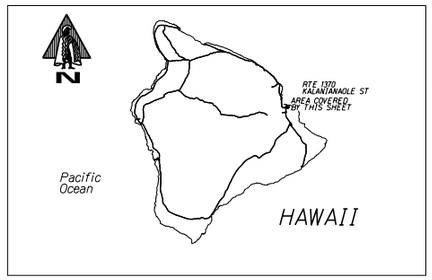

SCALE: (In Miles) 20" = 1 mile

Maintenance Control Sections : Length and Description

Structure Carrying Road: Bridges (Over 20'): Length, Type, Capacity and Year Constructed
Vertical Clearance
Horizontal Clearance

Structure Over Road: Vertical Clearance
Horizontal Clearance

Right of Way Width (min.–max.) If varies
Available Right of Way Width (Needs Study)
Right of Way Fence: Type – Right and Left
Control of Access: 1–None, 2–Partial, 3–Full
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)
Project No., Type of Construction, and Year Constructed
Project No., Type of Construction, and Year Constructed




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**

* MP = Milepost Signage

BEGIN ROUTE 1370 AT THE EAST EDGE OF PAVEMENT OF KUHIO STREET AND KALANIANAOLE STREET. 0.00 MI.

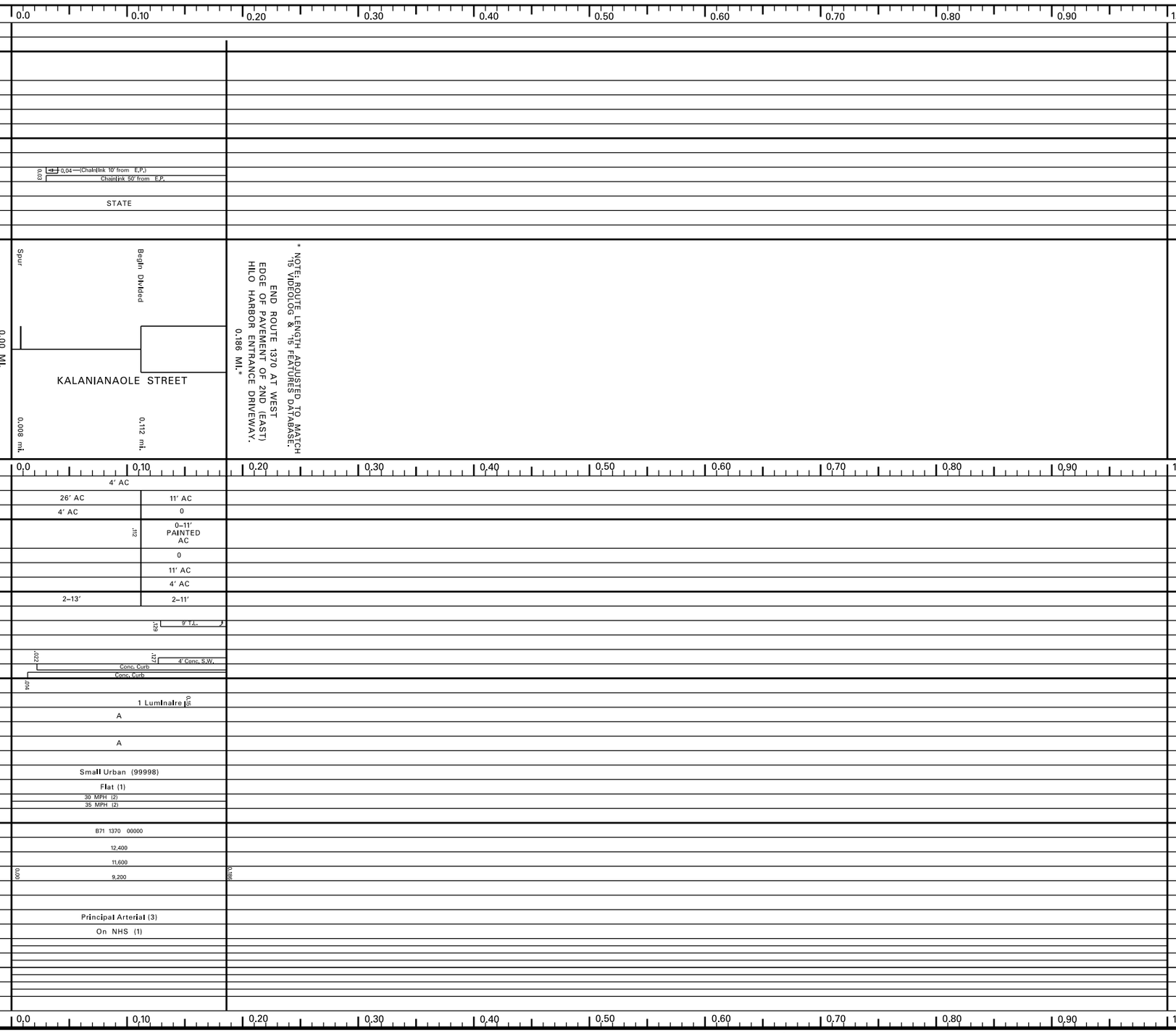
END ROUTE 1370 AT WEST EDGE OF PAVEMENT OF 2ND (EAST) HILO HARBOR ENTRANCE DRIVEWAY. 0.186 MI.*

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH "15 VIDEOLOG & "15 FEATURES" DATABASE.

SCALE: (In Miles) 20" = 1 mile

Divided Highway — Undivided:
Shoulder: Width and Type
Pavement: Width and Type
Shoulder: Width and Type
Median: Width and Type
Shoulder: Width and Type
Pavement: Width and Type
Shoulder: Width and Type

Number of Traffic Lanes
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left)
Protective Devices: Type, Location and Number
Illumination: Type, Location and Number
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development:
Terrain: 1–Flat, 2–Rolling, 3–Mountainous
Speed: 1–Design, 2–Posted
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year)
HPMS Sections – AADT 2017
HPMS Sections – AADT 2016
HPMS Sections – AADT 2015
DOD Sections
Census Tracts
Functional Classification
National Highway System (NHS)
Previous Projects: Project No., Date and Limits




| Date Released |
|---|
| MAR. 05, D.B. |

| Revised | |
|---|---|
| 7/06 | D.B. |
| 9/10 | D.B. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 8/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY
# HAWAII RTE 1970
# KAMEHAMEHA AVE., SILVA ST.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

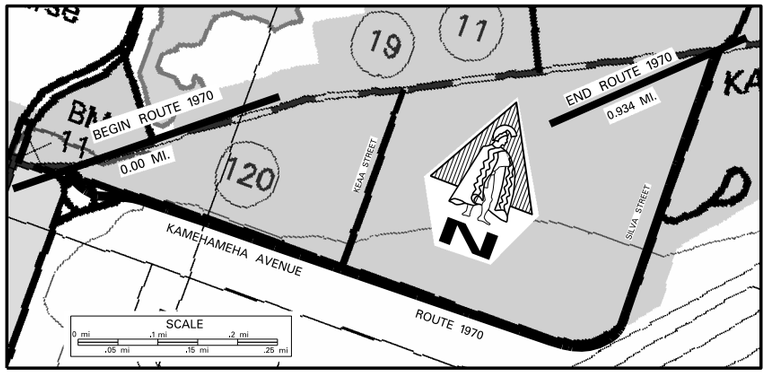
**Total Route Length:** 0.934 **miles**

**a. Survey Length:** 0.934 **miles**

**b. Proposed Length:** 0.00 **miles**

**c. Other Length: *** 0.00 **miles**

*




SCALE: (In Miles) 20" = 1 mile

0.0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00

**Maintenance Control Sections : Length and Description**

**Structure Carrying Road**

**Bridges (Over 20'): Length, Type, Capacity and Year Constructed**

**Vertical Clearance**

**Horizontal Clearance**

**Structure Over Road**

**Vertical Clearance**

**Horizontal Clearance**

**Right of Way Width (min.–max.) If varies**

**Available Right of Way Width (Needs Study)**

**Right of Way Fence: Type – Right and Left**

0.13 — Chain Link Fence, 10'–20' from Edge of Pavement — 0.99

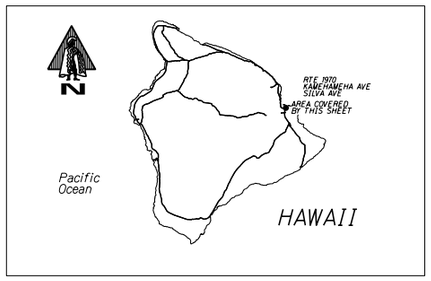
**Control of Access: 1–None, 2–Partial, 3–Full**

**Jurisdiction, Transfer Phase No. and Date (C to S or S to C)**

STATE

**Project No., Type of Construction, and Year Constructed**

**Project No., Type of Construction, and Year Constructed**




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**

* MP=Milepost Signage

BEGIN ROUTE 1970 AT THE SOUTHEAST EDGE OF PAVEMENT OF TRAFFIC CIRCLE ON KAMEHAMEHA AVENUE

0.000 MI.

End Divided — Driveway — Keaa Street — Paved Roads — Paved Road

KAMEHAMEHA AVENUE — SILVA STREET

0.104 mi. — 0.240 mi. — 0.331 mi. — 0.509 mi. — 0.586 mi. — 0.759 mi.

END ROUTE 1970 ON SILVA STREET AT THE SOUTH EDGE OF PAVEMENT OF KALANIANAOLE STREET ACROSS HILO HARBOR ENTRANCE.

0.934 MI.*

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE.

SCALE: (In Miles) 20" = 1 mile

0.0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00

**Divided Highway — Undivided**

**Shoulder: Width and Type**: 2' AC | 0.09 | 2' AC / 6' Grass | 0.12 | 10' AC | 0.20 | 2' AC / 10' Grass | 0.76 | 10' AC

**Pavement: Width and Type**: 10' AC | 20' AC

**Shoulder: Width and Type**: 0 | 10' Grass | 0.56 | 3' AC | 0.69 | 10' AC

**Median: Width and Type**: 50' Raised Grass | .104

**Shoulder: Width and Type**: 0

**Pavement: Width and Type**: 10' AC

**Shoulder: Width and Type**: 0 | 0.05 | 10' Grass

**Number of Traffic Lanes**: 2–10'

**Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)**: .08' | 8' | .07'

**(Right Side)**: N/A

**Frontage Road: No. of Lanes, and Width (Right and Left)**

**Sidewalk: Width and Type (Right and Left)**: N/A

**Curb and/or Gutter: Type (Right and Left)**: AC C | C, G | AC G | AC C

**Protective Devices: Type, Location and Number** — All Metal Rails on Metal Posts unless noted otherwise.: .030' | .049' | .567' | .49' | .388' | .377' | .375'

**Illumination: Type, Location and Number**: 0.66 | 4 Luminaires

**Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)**: F | .025 | E | .072 | A | 0.56 | E | .025 | AB

**Superelevation (Range)**

**Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)**: B | .010 | A | 0.89 | B

**Vertical Curve: Crest or Sag, Curve Limits**

**Area and Development**: Small Urban (99998)

**Terrain: 1–Flat, 2–Rolling, 3–Mountainous**: Flat (1)

**Speed: 1–Design, 2–Posted**: 35 MPH (2) Not Posted | .177 | 35 MPH (2) | .262 | 25 MPH (2) / 35 MPH (2) | .669 | 25 MPH (2)

**Intersection Control Devices: Type, Location and Cycle Timing**

**Traffic Stations (Current Year)**: B71 1970 00058

**HPMS Sections – AADT 2017**: 950

**HPMS Sections – AADT 2016**: 850

**HPMS Sections – AADT 2015**: 730

**DOD Sections**

**Census Tracts**

**Functional Classification**: Principal Arterial (3)

**National Highway System (NHS)**: Not On NHS (0)

**Previous Projects: Project No., Date and Limits**

SCALE: (In Miles) 20" = 1 mile

0.0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00

| Date Released | |
|---|---|
| MAR. 05, | D.B. |
| **Revised** | |
| May 06 | G.N. |
| 9/10 | G.N. |
| 2/11 | D.B. |
| 2/12 | D.B. |
| 9/12 | E.P.J. |
| 12/13 | E.P.J. |
| 8/14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| 2/18 | D.B. |
| 11/18 | D.B. |

# ROAD INVENTORY
# HAWAII RTE 2000
## PUAINAKO ST., PUAINAKO ST. EXTENSION

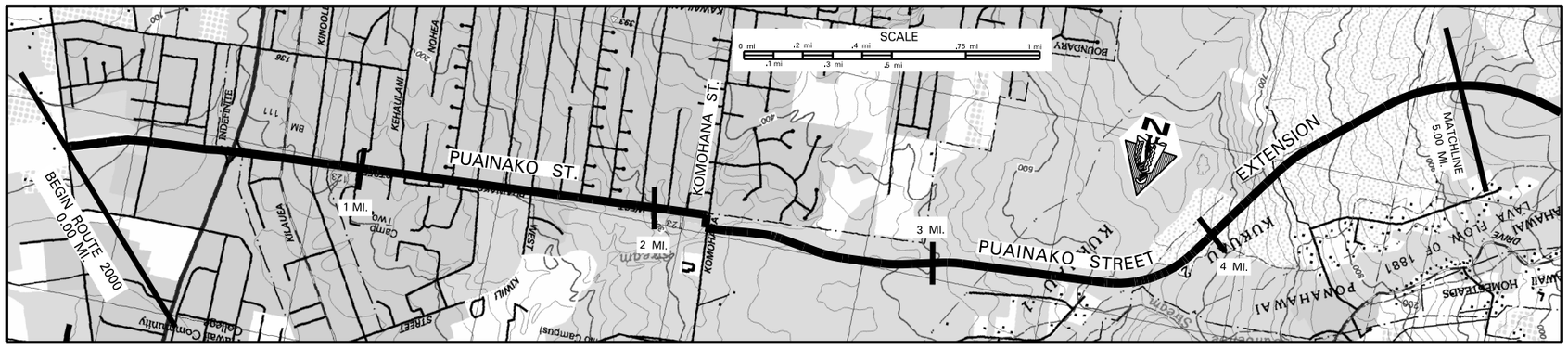
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 6.873 miles
- **a. Survey Length:** 6.873 miles
- **b. Proposed Length:** 0.00 miles
- **c. Other Length: *** 0.00 miles

*




SCALE: (In Miles) 4" = 1 mile

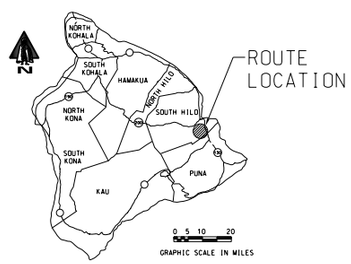
**Maintenance Control Sections : Length and Description**

Begin 2000E @ ℄ of Kanoelehua Ave. — 2000 E (1.62 MI.) — End 2000E @ ℄ of Kamohana St.

**Structure Carrying Road**
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

**Structure Over Road**
- Vertical Clearance
- Horizontal Clearance

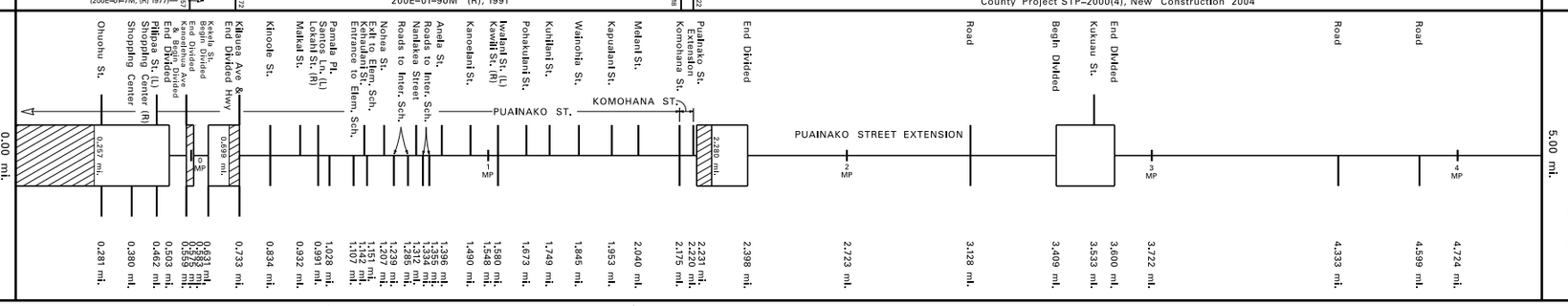
| | |
|---|---|
| Right of Way Width (min.–max.) If varies | Varies 50'–80' / 120' |
| Available Right of Way Width (Needs Study) | Rock Walls & Chain Link; Residential Area |
| Right of Way Fence: Type – Right and Left | Chain Link; Chain Link; Chain Link; Rock Walls & Chain Link; Various |
| Control of Access: 1–None, 2–Partial, 3–Full | None / Partial |
| Jurisdiction, Transfer Phase No. and Date (C to S or S to C) | State / State |
| Project No., Type of Construction, and Year Constructed | (2000E–01–00, Imprvts, 2004) |
| Project No., Type of Construction, and Year Constructed | (200E–01–7M, (R) 1977); 200E–01–90M (R), 1991; County Project STP–2000(4), New Construction 2004 |




Indicates Grass & / or Physical Barrier on Median.

**Road Diagram**

* MP = Milepost Signage




SCALE: (In Miles) 4" = 1 mile

**Divided Highway — Undivided**
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

**Divided Highway**
- Median: Width and Type
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

| | |
|---|---|
| Number of Traffic Lanes | 4–14' / 2–12' / 2–11' / 2–12' |
| Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) | |
| (Right Side) | |
| Frontage Road: No. of Lanes, and Width (Right and Left) | |
| Sidewalk: Width and Type (Right and Left) | |
| Curb and/or Gutter: Type (Right and Left) | Bituminous Curb |
| Protective Devices: Type, Location and Number | All Metal Rails on Metal Posts unless noted otherwise. |
| Illumination: Type, Location and Number | 7 Sodium Vapor; 8 M.V., 5 Incandescent |
| Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) | |
| Superelevation (Range) | |
| Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) | |
| Vertical Curve: Crest or Sag, Curve Limits | |
| Area and Development: | Small Urban (99998) |
| Terrain: 1–Flat, 2–Rolling, 3–Mountainous | Rolling (2) |
| Speed: 1–Design, 2–Posted | 30 MPH (2); 35 MPH (2); 45 MPH; 55 MPH (2) |
| Intersection Control Devices: Type, Location and Cycle Timing | 4 Phase; 2 Phase |
| Traffic Stations (Current Year) | B71 2000 00000; B71 2000 00046; B71 2000 00063; (B71 2000 00073); B71 2000 00140; B71 2000 00158; B71 2000 00222 |
| HPMS Sections – AADT 2017 | 2,200; 13,736; 17,700; 12,700; 10,000; 11,100; 7,600 |
| HPMS Sections – AADT 2016 | 3,700; 13,600; 17,400; 11,700; 9,900; 10,000; 6,600 |
| HPMS Sections – AADT 2015 | 2,600; 8,800; 15,100; 12,201; 8,500; 8,400; 6,000 |
| DOD Sections | |
| Census Tracts | |
| Functional Classification | Major Collector (5) |
| National Highway System (NHS) | Not On NHS (0) |
| Previous Projects: Project No., Date and Limits | (S–18(1) 1948, 49); 200E–01–77M, (R) 1977; G–3223–01–62, 1962 |

SCALE: (In Miles) 4" = 1 mile

| Date Released |
|---|
| Dec. 2003, DB |

| Revised | |
|---|---|
| Apr. 04 | D.B. |
| July 04 | D.B. |
| Sept 04 | D.B. |
| May 06 | G.N. |
| Sept 10 | D.B. |
| Feb. 11 | D.B. |
| Feb. 12 | D.B. |
| Sept. 12 | E.P.J. |
| Dec. 13 | E.P.J. |
| Aug. 14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
| Feb. 18 | D.B. |
| Nov. 18 | D.B. |

ROAD INVENTORY

# HAWAII RTE 2000
# PUAINAKO STREET EXTENSION

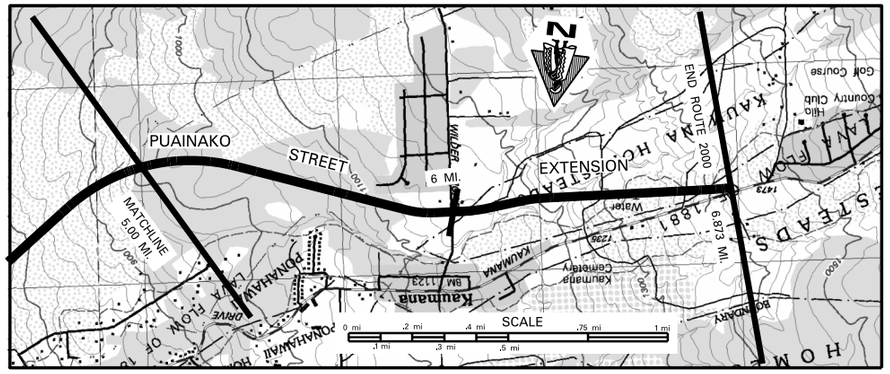
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

**Total Route Length:** 6.873 miles
- a. Survey Length: 6.873 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

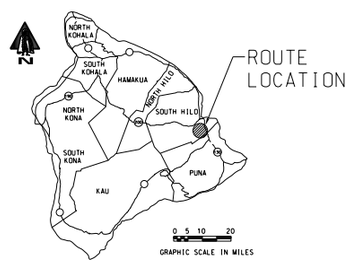
*




SCALE: (In Miles) 4" = 1 mile

Maintenance Control Sections : Length and Description

| | | |
|---|---|---|
| Structure Carrying Road | Bridges (Over 20'): Length, Type, Capacity and Year Constructed | |
| | Vertical Clearance | |
| | Horizontal Clearance | |
| Structure Over Road | Vertical Clearance | |
| | Horizontal Clearance | |
| Right of Way Width (min.–max.) If varies | | 120' |
| Available Right of Way Width (Needs Study) | | |
| Right of Way Fence: Type – Right and Left | | |
| Control of Access: 1–None, 2–Partial, 3–Full | | Partial |
| Jurisdiction, Transfer Phase No. and Date (C to S or S to C) | | State |
| Project No., Type of Construction, and Year Constructed | | |
| Project No., Type of Construction, and Year Constructed | | County Project STP–2000(4), New Construction, 2004 |




**Road Diagram**
* MP = Milepost Signage

CONTINUED FROM SHEET 1.

5.00 mi.

PUAINAKO STREET EXTENSION

Road — Road — Begin Divided — Wilder Road — End Divided — Kaumana Drive Begin Divided

5 MP — 6 MP

5.225 mi. — 5.520 mi. — 5.728 mi. — 5.816 mi. — 5.992 mi. — 6.168 mi. — 6.711 mi. — 6.813 mi. — 6.873 mi.

END ROUTE 2000 ON PUAINAKO STREET EXTENSION AT THE EAST EDGE OF PAVEMENT WITH KAUMANA DRIVE.
*6.873 mi.

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE.

SCALE: (In Miles) 4" = 1 mile

| | | |
|---|---|---|
| Divided Highway – Undivided | Shoulder: Width and Type | 9' AC |
| | Pavement: Width and Type | 24' AC; 12' AC; 24' AC; (12' AC) |
| | Shoulder: Width and Type | 9' AC; 0; 9' AC; 0 |
| Divided Highway | Median: Width and Type | 0'–10' Painted AC; (12' Painted AC) |
| | Median Barriers: | .876; .868; .813 |
| | Shoulder: Width and Type | 0; 0 |
| | Pavement: Width and Type | 12' AC; (12' AC) |
| | Shoulder: Width and Type | 9' AC; (9' AC) |
| Number of Traffic Lanes | | 2–12' |
| Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) | | .034; .715; .792; .792 |
| (Right Side) | | .868; .847; .792; .828 |
| Frontage Road: No. of Lanes, and Width (Right and Left) | | |
| Sidewalk: Width and Type (Right and Left) | | .031; .336; .401; .523; .990; .054; .540; .651 |
| Curb and/or Gutter: Type (Right and Left) | | AC G; AC G |
| Protective Devices: Type, Location and Number | All Metal Rails on Metal Posts unless noted otherwise. | |
| Illumination: Type, Location and Number | | .444; .509; .566; .713; .767; .101; .177; .302; .519 |
| Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) | | A; 5.94; B; 5.94; A |
| Superelevation (Range) | | |
| Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) | | D; 5.16; B; 5.50; D; 5.88; C; 6.14; D; 6.32; E; 6.52; D; 6.61; E |
| Vertical Curve: Crest or Sag, Curve Limits | | |
| Area and Development: | | Small Urban (99998) |
| Terrain: 1–Flat, 2–Rolling, 3–Mountainous | | Rolling (2) |
| Speed: 1–Design, 2–Posted | | 55 MPH (2); 5.13; 40 MPH (2) |
| Intersection Control Devices: Type, Location and Cycle Timing | | |
| Traffic Stations (Current Year) | | B71 2000 00222 |
| HPMS Sections – AADT 2017 | | 7,600 |
| HPMS Sections – AADT 2016 | | 6,600 |
| HPMS Sections – AADT 2015 | | 6,000 |
| DOD Sections | | |
| Census Tracts | | |
| Functional Classification | | Major Collector (5) |
| National Highway System (NHS) | | Not On NHS (0) |
| Previous Projects: Project No., Date and Limits | | |

| Date Released |
|---|
| Dec. 2003, DB |

| Revised | |
|---|---|
| Apr. 04 | D.B. |
| July 04 | D.B. |
| Sept 04 | D.B. |
| May 06 | G.N. |
| Sept 10 | D.B. |
| Feb. 11 | D.B. |
| Feb. 12 | D.B. |
| Sept. 12 | E.P.J. |
| Dec. 13 | E.P.J. |
| Aug. 14 | D.B. |
| 1/16 | E.P.J. |
| 1/17 | E.P.J. |
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