STATE ROUTE SYSTEM

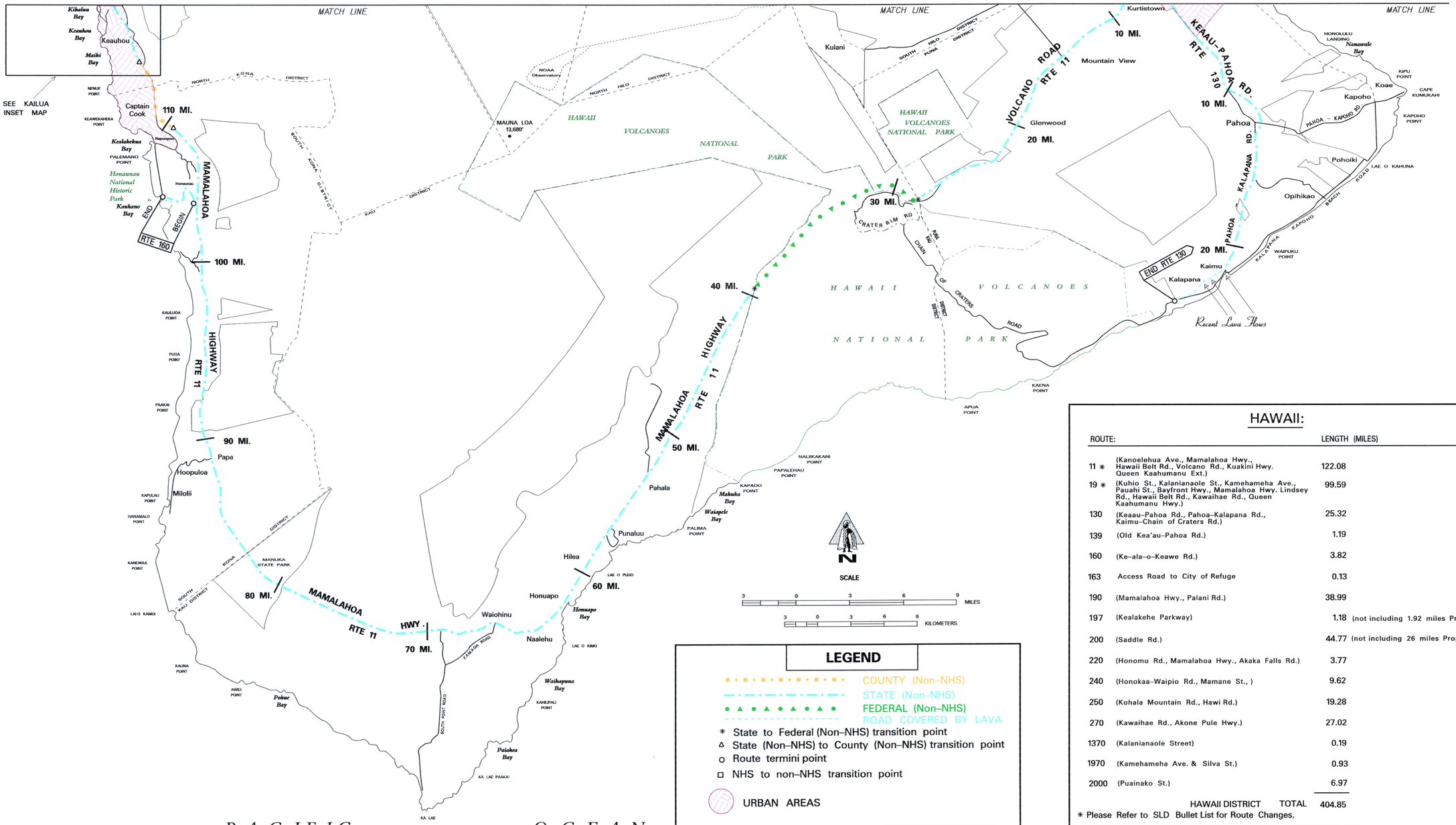
COUNTY OF HAWAII

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 2009



LEGEND

- COUNTY (Non-NHS)
- STATE (Non-NHS)
- FEDERAL (Non-NHS)
- ROAD COVERED BY LAVA
- ✳ State to Federal (Non-NHS) transition point
- △ State (Non-NHS) to County (Non-NHS) transition point
- ○ Route termini point
- □ NHS to non-NHS transition point
- URBAN AREAS

HAWAII:

ROUTE:		LENGTH (MILES)
11 ✳	(Kanoelehua Ave., Mamalahoa Hwy., Hawaii Belt Rd., Volcano Rd., Kuakini Hwy. Queen Kaahumanu Ext.)	122.08
19 ✳	(Kuhio St., Kalanianaole St., Kamehameha Ave., Pauahi St., Bayfront Hwy., Mamalahoa Hwy. Lindsey Rd., Hawaii Belt Rd., Kawaihae Rd., Queen Kaahumanu Hwy.)	99.59
130	(Keaau–Pahoa Rd., Pahoa–Kalapana Rd., Kaimu–Chain of Craters Rd.)	25.32
139	(Old Kea'au–Pahoa Rd.)	1.19
160	(Ke–ala–o–Keawe Rd.)	3.82
163	Access Road to City of Refuge	0.13
190	(Mamalahoa Hwy., Palani Rd.)	38.99
197	(Kealakehe Parkway)	1.18 (not including 1.92 miles Proposed)
200	(Saddle Rd.)	44.77 (not including 26 miles Proposed)
220	(Honomu Rd., Mamalahoa Hwy., Akaka Falls Rd.)	3.77
240	(Honokaa–Waipio Rd., Mamane St.,)	9.62
250	(Kohala Mountain Rd., Hawi Rd.)	19.28
270	(Kawaihae Rd., Akone Pule Hwy.)	27.02
1370	(Kalanianaole Street)	0.19
1970	(Kamehameha Ave. & Silva St.)	0.93
2000	(Puainako St.)	6.97
	HAWAII DISTRICT TOTAL	404.85

✳ Please Refer to SLD Bullet 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

STATE ROUTE SYSTEM

COUNTY OF HAWAII

ISLAND OF HAWAII

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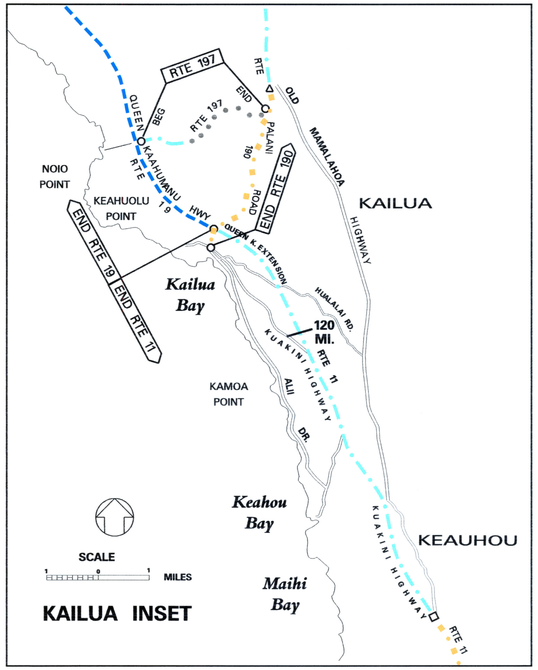
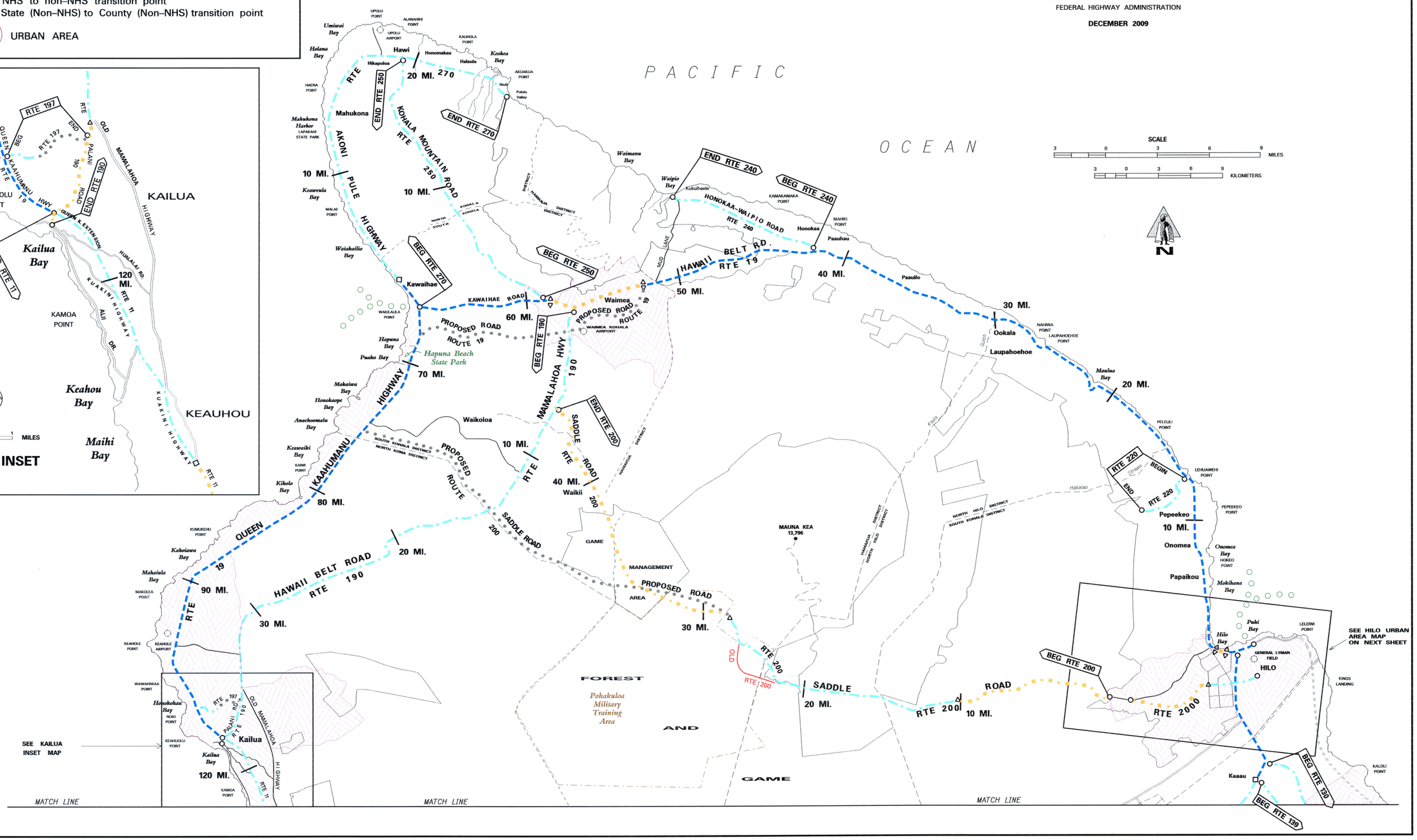
FEDERAL HIGHWAY ADMINISTRATION

DECEMBER 2009

LEGEND

- STATE (NHS)
- STATE (Non-NHS)
- COUNTY (NHS)
- COUNTY (NON-NHS)
- WATER (NHS)
- PROPOSED
- State to County NHS transition point
- Route termini point
- NHS to non-NHS transition point
- State (Non-NHS) to County (Non-NHS) transition point
- URBAN AREA





Date Released	
Dec. 2002,	JK
Revised	
Feb. 03	D.B.
May 04	D.B.
Mar. 08	D.B.
Feb. 09	D.B.
Jan., 10	D.B.

2

STATE ROUTE SYSTEM

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
PREPARED BY THE HIGHWAYS DIVISION, PLANNING BRANCH
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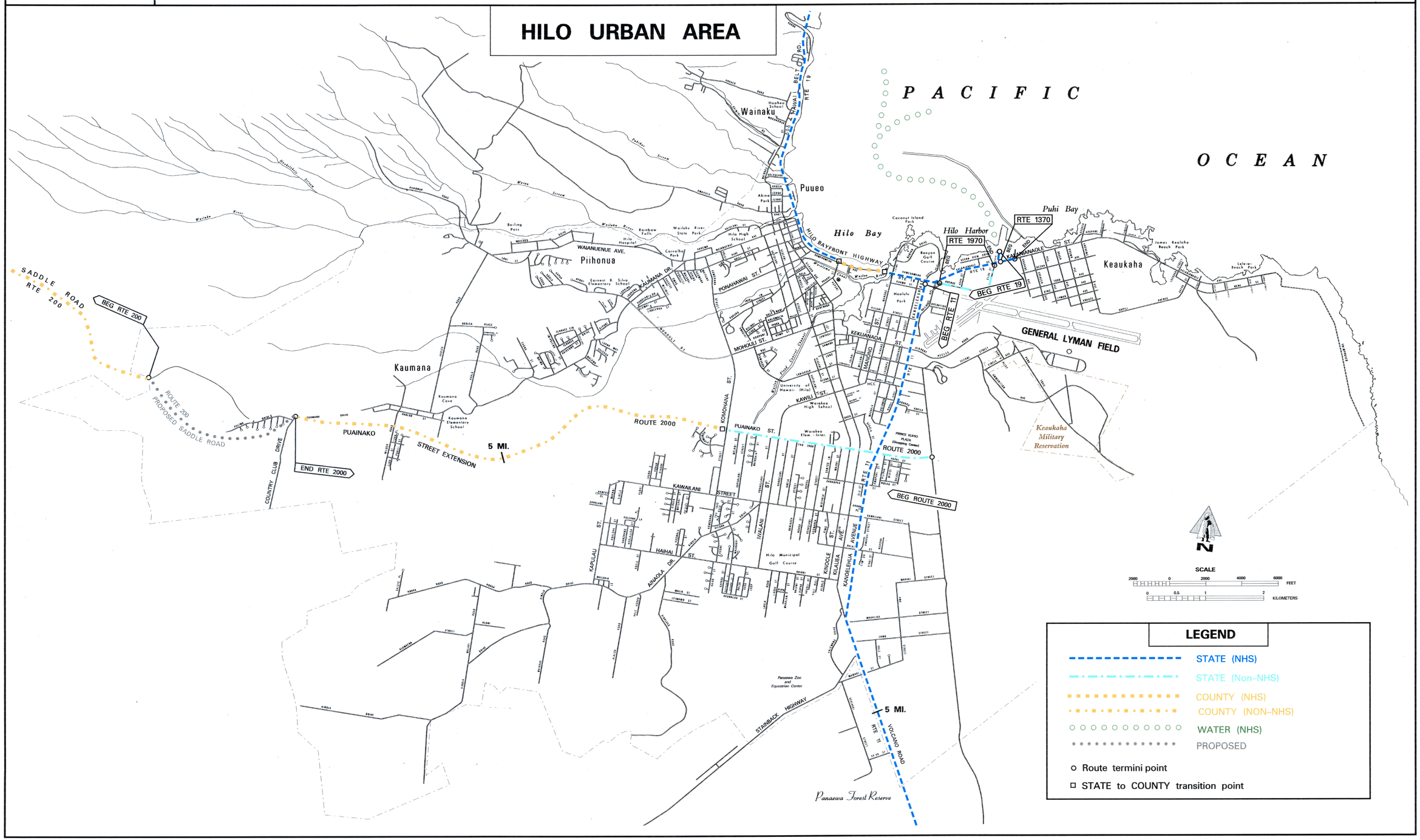
FEDERAL HIGHWAY ADMINISTRATION

DECEMBER 2009

HILO URBAN AREA



Date Released	
Dec 2002	JK
Revised	
Feb 03	D.B.
May 04	D.B.
Feb 08	D.B.

3

ROAD INVENTORY

HAWAII RTE. 11
VOLCANO ROAD – KANOELEHUA AVE.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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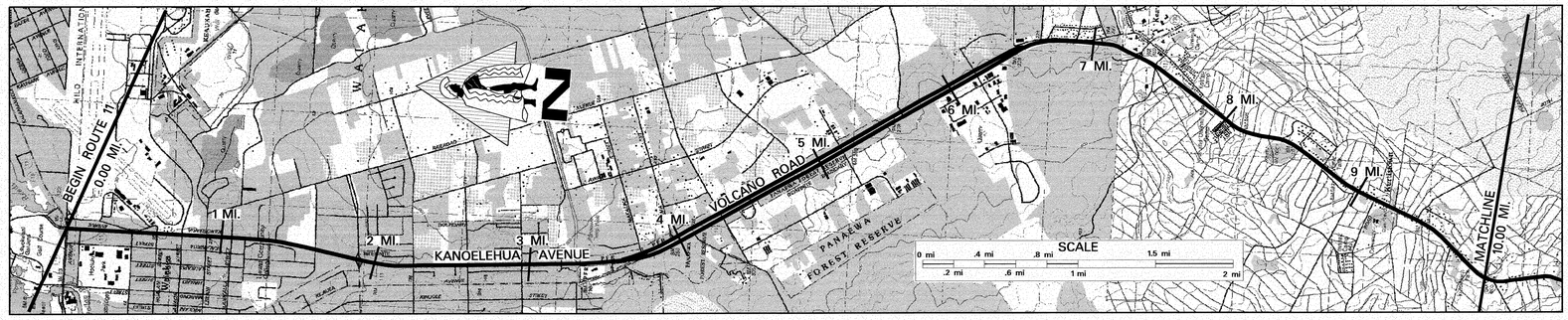
FEDERAL HIGHWAY ADMINISTRATION

Total Designated Route Length:	122.09	MILES (a+b)
a. Existing Length:	122.09	MILES
b. Proposed Length:	0.00	MILES
Total Travel Way Length:	122.09	MILES (a+b, less c)
a. Existing Length:	122.09	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 KEEAU-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, 2.55); 125' (3.24); 125' – 185' (3.28, 7.46); 80'

Available Right of Way Width (Needs Study): (6' CHAINLINK 15'–25' FROM PAV'T) COMMERCIAL (0.44, 0.54, 1.09); RESIDENTIAL AREA (1.09, 3.28); TREES, BRUSH (3.28, 6.66); RESIDENTIAL AREA, TREES (6.66, 7.46)

Right of Way Fence: Type – Right and Left: CHAINLINK 8' FROM PAV'T (7.14, 7.82)

Control of Access: 1–None, 2–Partial, 3–Full: PARTIAL (0.54, 5.48); NONE (5.48, 10.00)

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): C to S Phase I (0.54, 0.70); STATE

Project No., Type of Construction, and Year Constructed: (HES-STP-011-2(20) 1999 IMPROVEMENTS) (0.70, 0.76); (2000E-01-00, IMPRV., 2004) (0.76, 1.77); (1299+00) (2.90); (1277+20) (3.32); (NH-019-1(37), GRD RAIL & SHLDR IMP., 2009) (3.32, 8.30); (STP-011-2(29), RESURFACE, 1996) (8.30, 9.83)

Project No., Type of Construction, and Year Constructed: NH-011-2(24) 1999 WIDENING (1.77, 1.89); NH-011-2(33) 1999 RESURFACE (1.89, 6.49); F-011-2(17) WIDENING 1987 (6.49, 8.30); 11MN-01-93M RESURFACE 1993 (8.30, 9.83); 11M-01-00 Inter. Improve 2005 (9.83, 10.00)

Indicates Grass & / or Physical Barrier on Median.

Road Diagram

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

KUAWA ST. (0.01 MI.) | PIILANI ST. (0.09 MI.) | HUALANI ST. (0.42 MI.) | AIRPORT RD. (0.58 MI.) | KEKUANAOA ST. (0.74 MI.) | LEILANI ST. (0.90 MI.) | E. LANIKAULA ST. (0.98 MI.) | KAWILI ST. (1.08 MI.) | HALEKAULILA ST. (1.15 MI.) | POHAKU ST. (1.23 MI.) | MAKAALA ST. (1.34 MI.) | PUUANAKO ST. (RTE 2000) (1.61 MI.) | PAVED ROAD (RTE 2000) (1.90 MI.) | E. KAHAOPEA RD. (1.99 MI.) | W. KAHAOPEA RD. (2.25 MI.) | KAWAILANI ST. (2.53 MI.) | AHONA PL. (2.60 MI.) | E. PALAI ST. (2.96 MI.) | WAILANI-UHEA PL. (3.00 MI.) | PANAEWA BR. (DRIVEWAY (N) 3.21 MI.) | KILAUEA AVE. (ACCESS) (3.29 MI.) | KILAUEA AVE. MAKALIKA ST. (3.54 MI.) | LAMA ST. (3.73 MI.) | KIPIMANA ST. (3.77 MI.) | BEGIN MEASURED MILE STAINBACK HWY. (3.86 MI.) | E. MAMAKI ST. (4.01 MI.) | COUNTY DETENTION CTR. (4.11 MI.) | WEST MAMAKI ST. (4.31 MI.) | IKAIKA ST. END MEASURED MILE (4.52 MI.) | PUNA-SOUTH HILO DIST. BDRY. SIGN (5.01 MI.) | MACADAMIA DR. (5.50 MI.) | E. KIPIMANA ST. (6.01 MI.) | KEAAU-PAHOA RD. (RTE 130) (6.66 MI.) | ACC. FROM OLD MAMALAHOA HWY. (6.82 MI.) | OLD KEEAU-PAHOA RD. (RTE 139) ROAD U.P. (6.84 MI.) | VOLCANO RD. (7.00 MI.) | PAVED ROAD (7.19 MI.) | PAVED ROAD (7.30 MI.) | PAVED ROAD (7.78 MI.) | PA'AHANA ST. (8.03 MI.) | AKAAKAI ROAD END DIVIDED (8.29 MI.) | BEGIN DIVIDED PUKO ROAD (8.49 MI.) | MEAULU ST. END DIVIDED ROAD (8.74 MI.) | KUAAINA ROAD (8.88 MI.) | PAVED ROAD SOUTH ROAD (9.00 MI.) | BEGIN DIVIDED OLA'A ROAD (9.12 MI.) | ACCESS ROAD (9.26 MI.) | HUINA ROAD (9.41 MI.) | END DIVIDED (9.61 MI.) | (9.72 MI.) | (9.83 MI.)

KANOELEHUA AVE. — VOLCANO ROAD — 0 MP, 1 MP, 2 MP, 3 MP, 4 MP, 5 MP, 6 MP, 7 MP, 8 MP, 9 MP

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. (0.57); 0' (1.22); 9'–11' AC BIKELANE/SHOULDER (6.70, 10.00)
- Pavement: Width and Type: 12' AC (0.11); 24' AC (5.90); 36' AC (6.50); 24' AC (7.27); 12' AC (8.03); 24' AC (8.49); 12' AC (8.74); 24' AC (9.01); 12' AC (9.50); 24' AC (9.83)
- Shoulder: Width and Type: 2'–4' AC (2.95); 0'–2' AC (5.87); 2'–4' AC (6.58); 0'–2' AC (7.37); 2'–4' AC (8.03); 0' (8.49); 8'–10' AC (8.74); 0' (9.01); 8'–10' AC (9.50); 0' (9.83); 8'–10' AC
- Median: Width and Type: GRASS MEDIAN varies to 26'; 36'–60' TREES AND BUSHES (6.53); 0'–20' AC (6.82); 18' GRS. (6.84); 6'–18' AC (7.19); 4' RAISED MED. (7.28); 18' GRASS (8.03); 0'–18' PAINT (8.49); 0–6' PAINT (9.01); 0–10' PAINT (9.83)
- Median Barriers: (M/M GUARDRAIL): CURB CURB (0.68, 0.76); CURB (0.84, 0.92); CURB (1.13, 1.35); CURB (1.61, 1.83); CURB (2.20, 2.38); GUTTER (2.91, 3.09); M/M (3.83, 4.08); M/M (4.48, 4.66); M/M (5.36, 5.48); M/M (5.65, 5.85); M/M (6.30, 6.51); M/M (6.65, 6.82); M/M (7.19, 7.28); M/M (8.03, 8.20)
- Shoulder: Width and Type: 0'–2' AC (3.84); 0' (8.03); 0' (9.01); 0' (9.83)
- Pavement: Width and Type: 33' AC (0.11); 24' AC (2.98); 12' AC (7.82); 12' AC (9.01); 12' AC (9.83)
- Shoulder: Width and Type (COMBINATION BIKELANE & SHOULDER FROM 0.00 MI.– 2.60 MI.): 4' AC BIKE LANE (0.11); 6'–10' B.L./SHLDR. (2.26); 8'–10' AC (2.80); 6'–8' AC (3.77); 10'–12' AC (6.37); 8'–10' AC (7.82); 8'–10' AC (9.01); 10' AC (9.83)

Number of Traffic Lanes: 1 – 12' (0.00); 2 – 12' (9.01)

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) ALL T. L. 12'; (Right Side) ALL T. L. 12': 2 – 12' (0.12); 3 – 11' (0.38); 2 – 12' (0.42); 2 – 11' (L) T.L. (2.21); 4 – 12' (2.98); 3 – 12' (5.40); 2 – 12' (5.65); 4 – 12' (6.19); 2 – 12' (7.42); 1 – 12' (7.82); 2 – 12' (8.14); 1 – 12' (8.39); 2 – 12' (9.27)

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

Sidewalk: Width and Type (Right and Left): 5' CONCRETE SIDEWALK (0.42, 0.64); 2.5' DOWNGRADE CURB AND GUTTER (2.21, 2.46)

Curb and/or Gutter: Type (Right and Left): CURB & GUTTER (0.64, 0.84); CURB (0.84, 0.94); GUTTER (0.94, 1.22); CURB (2.09, 2.26); 9.65 AC CURB (9.27, 9.65)

Protective Devices: Type, Location and Number: ALL METAL RAILS ON METAL POSTS (0.59, 1.90)

Illumination: Type, Location and Number: 33 M.V. (5.36, 8.79); 12 LPS (Low Pressure Sodium) (8.89, 9.50)

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: SMALL URBAN (2) (0.00, 5.65); RURAL (1) (5.65, 10.00)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: FLAT (0.00, 2.57); ROLLING (2.57, 7.89)

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

Intersection Control Devices: Type, Location and Cycle Timing: ALL 4 PHASE UNLESS NOTED (0.00, 0.74); m PHASE (0.90, 1.15); (1.61, 1.90); (2.25, 2.60); (2.86, 3.27); (3.94, 6.32); (6.68, 7.11); m PHASE (7.15, 7.46); (9.14, 10.00)

Traffic Stations (Current Year): B71 0011 00000 (0.00, 0.58); B71 0011 00058 (0.58, 2.26); B71 0011 00225 (2.26, 2.86); B71 0011 00296 (2.86, 3.21); B71 0011 00321 (3.21, 3.79); B71 0011 00377 (3.79, 5.65); B71 0011 00565 (5.65, 6.19); B71 0011 00619 (6.19, 7.30); B71 0011 00730 (7.30, 7.79); B71 0011 00778 (7.79, 8.29); B71 0011 00829 (8.29, 9.72); B71 0011 00972 (9.72, 10.00)

HPMS Sections – AADT 2009	23,785	33,402	32,607	32,607	32,542	38,951	38,951	24,978	14,669	14,669	14,669	12,094
HPMS Sections – AADT 2008	23,738	33,335	32,542	32,542	32,607	38,873	38,873	24,928	14,640	14,640	14,640	12,070
HPMS Sections – AADT 2007	24,240	34,040	33,230		33,230	39,695		25,455	14,950	14,950	14,950	12,325

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (14) (0.00, 5.65); PRINCIPAL ARTERIAL (2) (5.65, 7.30); MINOR ARTERIAL (6) (7.30, 10.00)

National Highway System (NHS): ON NHS (1) (0.00, 7.30); NOT ON NHS (0) (7.30, 10.00)

Previous Projects: Project No., Date and Limits
- (2000E-01-00, IMPRV., 2004) (0.00, 1.77); 2.05
- NH-011-2(24) 1999 WIDENING (1.77, 1.89); 3.30
- NH-011-2(33), RESURFACE 1999 (0.01, 2.55); 3.63
- 11NP-01-80M 1980 RESURFACE (2.55, 3.80)
- F-RF-011-2(13) 1977 (3.63, 5.68)
- 11P-01-70 1971 (2.55, 3.74); F-2(3) 1949 (3.74, 5.68)
- 11N-01-91M 1992 RESURFACE 8 LANES (5.68, 6.40)
- 11MN-01-77M 1977 RESURFACE (6.43, 9.88)
- F-04-2(9) INBOUND 1962 (5.68, 7.33); 11M-01-81M 1981 RESURFACE (8.30, 9.58); F-2(4) WDR 11(2), 1950 (9.58, 10.00); (11M-01-82M (R) 1982)
- F-011-2(9) INBOUND 1961 (6.46, 7.10); 11M-01-71 1971
- F-011 OUTBOUND (7.10, 8.06)
- F-011-2(2) 1960 (8.06, 9.70); F-2(4) 1948 (9.70, 10.00)

SCALE: (In Miles) 2" = 1 mile

Date Released	
Dec 2004	GN
Revised	
5/06	G.N.
9/10	D.B.

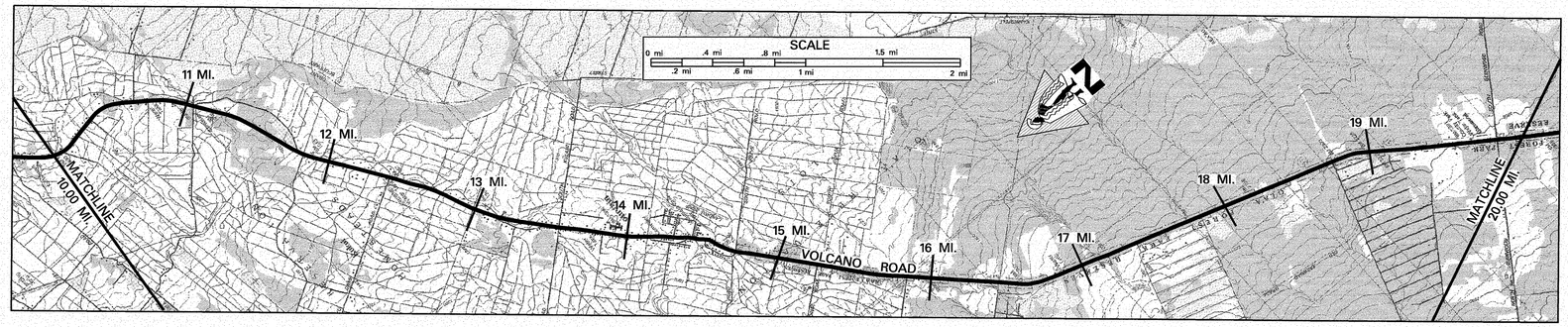
ROAD INVENTORY
HAWAII RTE 11
VOLCANO ROAD

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: 122.09 miles
a. Survey Length: 122.09 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. | 11 L (12.00 MI.)

Structure Carrying Road — Bridges (Over 20'): Length, Type, Capacity and Year Constructed: CULVERT, 1966, HS–20 (42' 55' 43' / 44' 44' 44')

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: 80' | 80'–144' | 80'–125' | 90'–110'

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

Right of Way Fence: Type – Right and Left: C.L. 10' F.P. / WIRE 12' F.P. / C.L. 10' F.P. / S.W. 15' F.P. / C.L. 20' F.P. / C.L. WIRE 10' F.P.

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

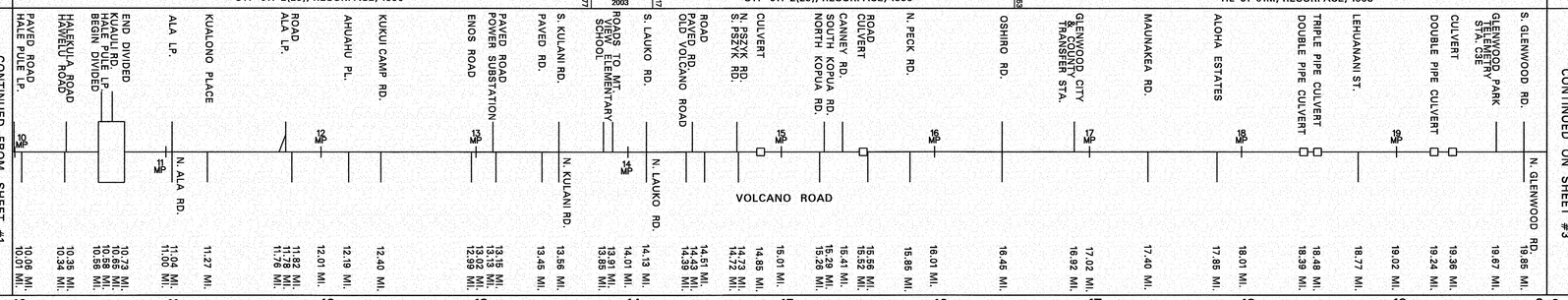
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE

Project No., Type of Construction, and Year Constructed: STP–011–2(29), RESURFACE, 1996 | IM–02–02M 2003 | STP–011–2(29), RESURFACE, 1996 | 11L–01–91M, RESURFACE, 1993

Project No., Type of Construction, and Year Constructed

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type: 8'–10' AC | 10'–12' AC B. L. / SHLDR. | 8'–10' AC

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

Shoulder: Width and Type: 8'–10' AC | 0 | 8'–10' AC | 10'–12' AC B. L. / SHLDR. | 8'–10' AC

Median: Width and Type: (11' PAINTED AC)

Median Barriers:

Divided Highway — Undivided

Shoulder: Width and Type: 0

Pavement: Width and Type: 12' AC

Shoulder: Width and Type: (8'–10' AC)

Number of Traffic Lanes: 2–12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 1–11' (L) T.L.

(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 CURB

Protective Devices: Type, Location and Number: M/M

Illumination: Type, Location and Number: FROM 6.71 MI. 33 MV | LOW PRESSURE SODIUM | 11 MV

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

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

Speed: 1–Design, 2–Posted: 45 MPH (2), MINIMUM 30 MPH | 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 0011 00972 | B71 0011 01127 | B71 0011 01356 | B71 0011 01472

HPMS Sections – AADT 2009: 12,094 | 12,094 | 12,094 | 6,300

HPMS Sections – AADT 2008: 12,070 | 12,070 | 12,070 | 6,000

HPMS Sections – AADT 2007: 12,325 | 12,325 | 12,325 | 5,960

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (6)

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

Previous Projects: Project No., Date and Limits

STP–011–2(29), RESURFACE, 1996
11M–01–82M (RESURFACE), 1982
(F–2(4) WOR 11(2) 1950)
11M–01–71, 1971
F–2(4) 1948
F–0112(5), 1970
F–2(6), 1951
F–011–2(5), 1970
F–011–2(5), 1967
(G–0144(1), 1958)

SCALE: (In Miles) 2" = 1 mile

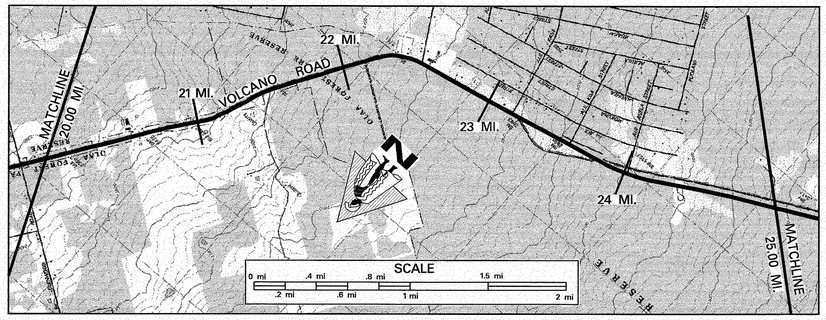
Date Released	
JUNE 05, D.B.	
Revised	
5/06	G.N.
9/10	D.B.

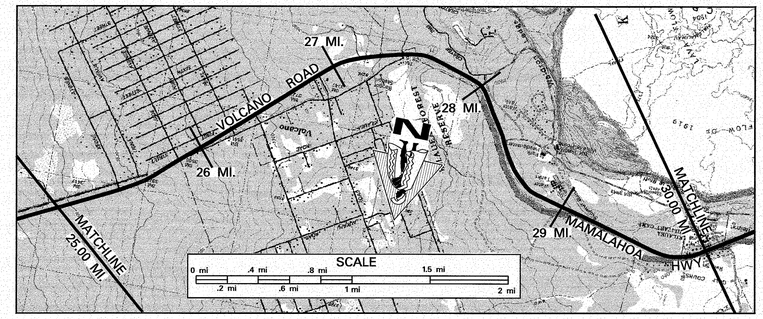
ROAD INVENTORY
HAWAII RTE 11
VOLCANO RD., MAMALAHOA HWY.

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: 122.09 miles
a. Survey Length: 122.09 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. (28.44) — 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'; (23.94); 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; (27.56) FEDERAL (STATE MAINTAINED)
Project No., Type of Construction, and Year Constructed: (S-0144 (1), 1958); (F-011-2(11), 1974); (27.22) –(11K-01-03M, (R),2009); (28.12); (28.19) 11K-01-03M, (R),2009
Project No., Type of Construction, and Year Constructed: 11L-01-91M, (R), 1993; (21.21); (21.26); 11L-01-92, (R), 1993; (23.53); (23.58); STP-011-2(26), RESURFACE, 1996; (28.16); 11HKL-01-97M, 1998, (R); 11JK-01-90, (R), 1991

Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #2 (20.00 MI.)

CULVERT (20.02 MI.); CULVERT (20.54 MI.); CULVERT (20.70 MI.); PAVED RD. (21.01 MI.); ROAD (NEW HOPE) (21.52 MI.); KAHAUALE'A ROAD (22.02 MI.); ALI'I KANE ST. (22.38 MI.); ALI'I KOA ST. SPEED STATION (LOOP) (22.54 MI.); CONNECTOR TO VOLCANO RD. (23.03 MI.); ALI'I ANELA ST. (23.20 MI.); ROAD TO VOLCANO SOLID WASTE DUMP (23.52 MI.); NAHELENANI ST. (23.61 MI.); JADE AVE (23.82 MI.); PEARL AVE (24.03 MI.); LANIHULI RD. (24.37 MI.); HAUNANI RD. HALE OHIA RD. (25.04 MI.); DISTRICT OF KAU (R) DISTRICT OF PUNA (L) (25.43 MI.); HAWAII VOLCANOES NATIONAL PARK BDRY. OLD VOLCANO RD. (25.86 MI.); BEGIN DIV. HWY (26.04 MI.); END DIV. HWY VOLCANO NAT'L PARK RD. (26.26 MI.); ROAD (L) (26.43 MI.); BEGIN FAULT ZONE (26.87 MI.); CREST 4024 FT. (29.96 MI.)

VOLCANO ROAD — WRIGHT RD. — MAMALAHOA HIGHWAY

CONTINUED ON SHEET #4. (30 MI.)

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided
- Shoulder: Width and Type: 7'–9' AC; (27.56) 4'–6' AC; (29.07) 2'–4' AC
- Pavement: Width and Type: 24' AC; 12' AC; 24' AC
- Shoulder: Width and Type: 8'–10' AC; (27.57) 2'–4' AC; 0; (28.71) 6" AC; 2'–4' AC
- Median: Width and Type: (28.26) 12' PAINTED MEDIAN (28.60)
- 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): (28.32); (28.44); (28.60)
(Right Side): (28.32) 12' (28.44) 12' (28.56)
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: (28.26) M/M; METAL RAILS ON CONCRETE POSTS
Illumination: Type, Location and Number: (28.32) M/M; (28.46); (28.70); (28.96); (29.36); LOW PRESSURE SODIUM (22.52); (23.18) LOW PRESSURE SODIUM; (26.63) LOW PRESSURE SODIUM; (28.41); (28.07) M/M; 2 LOW PRESSURE SODIUM
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING; (23.68) FLAT; (26.37) ROLLING
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 01472; (28.42) B71 0011 02643; B71 0011 02756; (28.44) B71 0011 02844
HPMS Sections – AADT 2009: 6,300; 3,469; 3,469; 2,581
HPMS Sections – AADT 2008: 6,000; (27.56) 3,462; 3,462; 2,576
HPMS Sections – AADT 2007: 5,960; 3,535; 2,630
DOD Sections: (28.42); (28.42)
Census Tracts: CT 210; (27.56) CT 212
Functional Classification: MINOR ARTERIAL (6)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits
- S-0144(1), 1958; (21.21); (21.26); 11L-01-76M, (R), 1977; (23.53); F-011-2(11), 1974; (FLH-011-2(18), (INT. IMPRV.), 1987)– 28.18 ——▷; (11JK-01-84M, 1985, RESURFACE); 28.67; 29.27; 29.36; 29.96
- F-011-2(5), 1967; (20.60); S-0144(1), 1956; (23.58); F-011-2(11), 1973; (27.51); 11KL-01-78M & PMS-0100(11) UNIT 1, RESURFACE, 1978; (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.

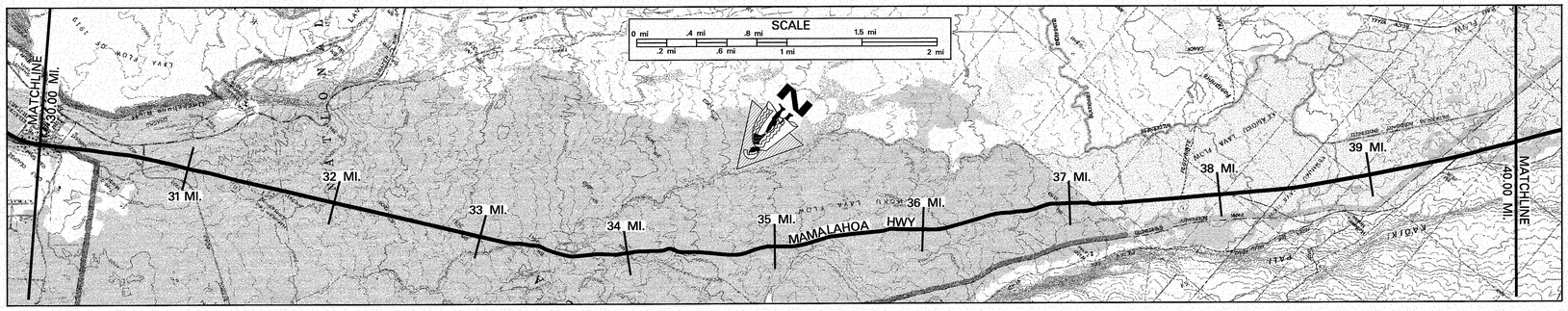
ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HIGHWAY

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: 122.09 miles
a. **Survey Length:** 122.09 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.)
- 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.)
- END 11H – BEGIN 11J ON MAMALAHOA HWY 63' SOUTH OF HAWAII NATIONAL PARK BDRY. AT THE CONTROL SECTION MARKER
- 11 H (11.86 MI.)

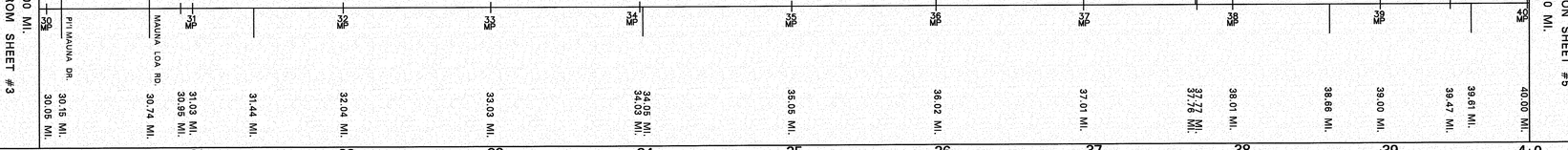
Structure Carrying Road
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- Vertical Clearance
- Horizontal Clearance

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) if varies: 80' / 100' / 80'
Available Right of Way Width (Needs Study): LARGE TREES AND BRUSH / BUSHES & TREES IN LAVA ROCK
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): FEDERAL (STATE MAINTAINED) / STATE
Project No., Type of Construction, and Year Constructed: 11K–01–03M (R), 2009 / (STP–0100(31), 1994, G.R. IMPRV.)
Project No., Type of Construction, and Year Constructed: 11JK–01–90M, (R), 1991 / FLH–011–2(27), RESURFACE, 1998 / STP–011–2(28), RESURFACE, 1995 / 11JK–01–90M, (R), 1991 / (11H–01–80M, (R), 1980)

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided
- Shoulder: Width and Type: 2'–4' AC / 6' AC / 2'–4' AC
- Pavement: Width and Type: 24' AC / 22' AC / 24' AC
- Shoulder: Width and Type: 2'–4' AC / 5'–7' AC / 3' AC / 8'–10' AC

Divided Highway
- 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' / 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 RAILS ON METAL POSTS GUARDRAILS
Illumination: Type, Location and Number
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING
Speed: 1–Design, 2–Posted: 55 MPH (2), 40 MPH MIN. / 45 MPH (2), 30 MPH MINIMUM / 55 MPH (2), 40 MPH MINIMUM
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0011 02844 / B71 0011 03074 / B71 0011 03713 / B71 0011 03947
HPMS Sections AADT 2009: 2,581 / 2,085 / 2,085 / 2,085
HPMS Sections AADT 2008: 2,576 / 2,081 / 2,081 / 2,081
HPMS Sections AADT 2007: 2,630 / 2,125
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (6)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits
- FLH–011–2(27), RESURFACE, 1998
- STP–011–2(28), RESURFACE, 1995
- FLH–011–2(19), 1990
- FLH–011–2(22), WIDENING, 1991
- FLH–011–2(23) 1992
- (11JK–01–84M, 1985, RESURFACE)
- (11JK–01–84M, 1985, RESURFACE)
- (11KL–01–78M & PMS–0100(11) UNIT 1, (R), 1978)
- 11J–01–76M (R), 1976
- NP–3B, 1931
- NPH–3A, 1962
- NP–3C, 1940
- F–18(5), 1953
- 11H–01–80M, (R), 1980

SCALE: (In Miles) 2" = 1 mile

Date Released
JUNE 05, D.B.
Revised
6/06 D.B.
9/10 D.B.

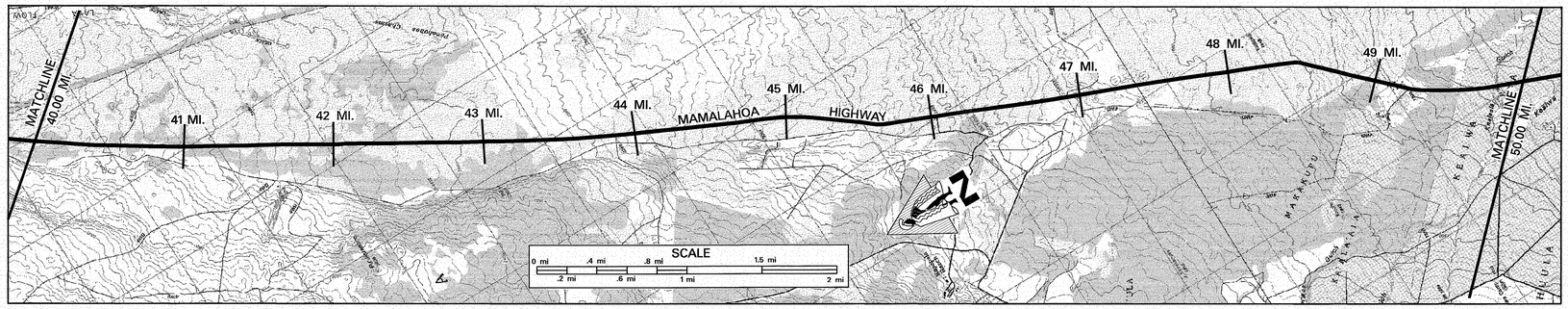
ROAD INVENTORY
OAHU RTE 11
MAMALAHOA HIGHWAY

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: 122.09 miles
- a. Survey Length: 122.09 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: 80' | 41.44 | 41.57 | 80' | 40.00 | 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)
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: 11H–01–80M, RESURFACE, 1980 | 45.69 | 11HKL–01–97M, RESURFACE, 1998
Project No., Type of Construction, and Year Constructed: (ER-12(2), BRIDGE REPLACEMENT, 2006); (11HKL–01–97M RESURFACE, 1998); (STP–011–2(25), IMPRV., 1997)

40 41 42 43 44 45 46 47 48 49 50

11 H (11.86 MI.)

CONC. BOX CULVERT 1997 HS–20–44
PRESTRESSED CONC. PLANK, HL–93, 2006
160' 49.07 | 73' 49.46 | 145' 49.77
40' | 34' | 40'

183+00 | 200+00 | 193+97.81 | 200+88
48.87 | 48.95 | 48.97 | 49.04 | 48.95
40.45 | 40.59

PAVED RD. | SPEED STATION | PAVED RD. | KAPAPALA RANCH RD. CULVERT | PAVED RD. | CULVERT | CULVERT | CULVERT | MAKAKUPU BRIDGE | PAVED ROAD TO PLANTATION | PIIKEA BR. | SPEED MONITORING STA. | CULVERT KAALAALA STR. BR.

MAMALAHOA HIGHWAY

193+53 | 196+76

MP 40.00 | MP 41 | MP 42 | MP 43 | MP 44 | MP 45 | MP 46 | MP 47 | MP 48 | MP 49 | MP 50

40.00 MI. CONTINUED FROM SHEET #4

40.00 MI. | 40.58 MI. | 41.00 MI. | 42.00 MI. | 42.77 MI. | 42.99 MI. | 43.88 MI. | 43.98 MI. | 44.98 MI. | 46.02 MI. | 45.97 MI. | 46.81 MI. | 46.97 MI. | 47.21 MI. | 47.48 MI. | 47.69 MI. | 47.96 MI. | 48.96 MI. | 49.07 MI. | 49.20 MI. | 49.46 MI. | 49.52 MI. | 49.77 MI. | 49.87 MI. | 49.95 MI.

CONTINUED ON SHEET #6 50.00 MI.

Road Diagram

* MP = Milepost Signage

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided:
- Shoulder: Width and Type: 8' AC | 40.24 | 3' AC / 3' GRAVEL | 41.00 | 6' AC | 41.76 | 7'–8' AC | 41.94 | 3' AC / 3' GRAVEL | 43.00 | 7' AC | 44.75 | 3' AC / 3' GRAVEL | 45.69 | 4'–6' AC | 48.24 | 6'–8' AC | 49.12 | 5' AC | 49.03 | 6'–8' AC | 49.74 | 5' AC | 49.83 | 6'–8' AC
- Pavement: Width and Type: 24' AC | 45.69 | 22' AC
- Shoulder: Width and Type: 8'–10' AC | 40.24 | 3' AC / 3' GRAVEL | 43.00 | 8' AC | 43.76 | 3' AC/2' GRAVEL | 44.83 | 7' AC | 44.98 | 3' AC / 3' GRAVEL | 45.69 | 4'–5' AC | 48.87 | 5'–7' AC | 49.03 | 7' AC | 49.40 | 5'–7' AC | 49.83 | 7'–9' AC | 49.83 | 5'–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' | 45.69 | 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): AC GUTTER | 48.94 | 48.95 | 49.00 | 49.03 | 49.04 | 49.05 | 49.06 | 49.07 | 49.24 | 49.25 | 49.26 | 49.28 | 49.29 | 49.30 | 49.31 | 49.32 | 49.33 | 49.34 | 49.35 | 49.36 | 49.37 | 49.38 | 49.39 | 49.40 | 49.41 | 49.42 | 49.43 | 49.44 | 49.45 | 49.46 | 49.47 | 49.48 | 49.49 | 49.50 | 49.51 | 49.52 | 49.53 | 49.54 | 49.55 | 49.56 | 49.57 | 49.58 | 49.59 | 49.60 | 49.61 | 49.62 | 49.63 | 49.64 | 49.65 | 49.66 | 49.67 | 49.68 | 49.69 | 49.70 | 49.71 | 49.72 | 49.73 | 49.74 | 49.75 | 49.76 | 49.77 | 49.78 | 49.79 | 49.80 | 49.81 | 49.82 | 49.83 | 49.84 | 49.85 | 49.86 | 49.87 | 49.88 | 49.89 | 49.90 | 49.91 | 49.92 | 49.93 | 49.94 | 49.95 | 49.96 | 49.97 | 49.98 | 49.99 | 50.00 | CONC. GUTTER
Protective Devices: Type, Location and Number: ALL METAL ON METAL
Illumination: Type, Location and Number
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING
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 03947 | B71 0011 04602
HPMS Sections – AADT 2009: 2,085 | 46.02 | 2,085
HPMS Sections – AADT 2008: 2,081 | 2,081
HPMS Sections – AADT 2007: 2,125 | 46.06 | 2,125
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (6)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits
45.63 | 11HKL–01–97M, (RESURFACE), 1998
(11GH–01–82M, (RESURFACE), 1982) 49.51 | 49.51 | 49.62
(11GH–01–81, (SHOULDER STABILIZATION), 1981)
11H–01–80M, RESURFACE, 1980
48.25 | 11G–01–78, 1978, (SHOULDER STABILIZATION)
F–18(5), 1953 | 45.00 | WER 1(1), 1948 | 48.89 | FAP 18 B 1938

SCALE: (In Miles) 2" = 1 mile

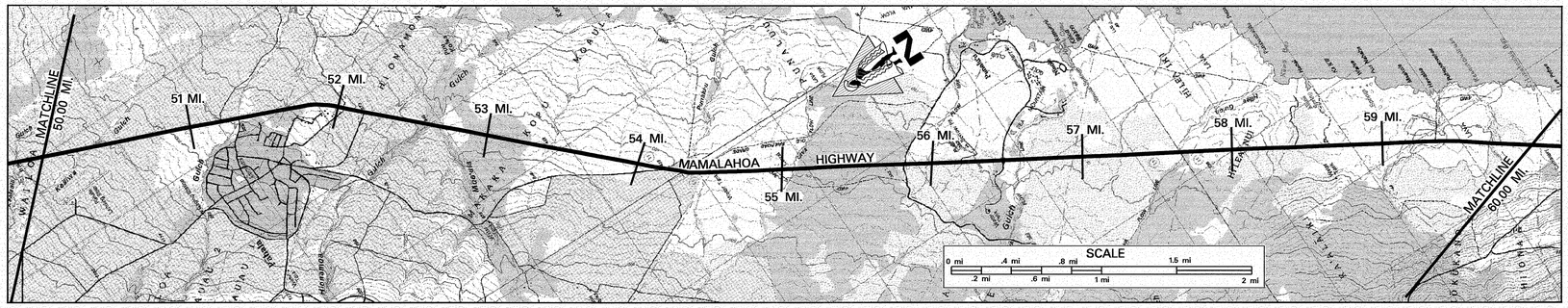
Date Released	
June 2005, D.B.	
Revised	
6/06	D.B.
1/07	D.B.
9/10	D.B.

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: 122.08 miles
a. Survey Length: 122.08 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. (50.14) | 11G (9.20 MI.)

Structure Carrying Road

Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- PRECAST PLANK 2001, HL-93 — 234' (50.36)
- 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' (53.46)
- 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: 40' | 40' | 24' | 24' | 24' | 24' | 24'

Horizontal Clearance

Structure Over Road

Vertical Clearance

Horizontal Clearance: (65') (51.14) (51.32) (51.46); (60') (100') (52.14) (52.35) (52.06); (85')

Right of Way Width (min.–max.) if varies: 60' | 60' | 60' | 60'–80' (54.03) | 60'

Available Right of Way Width (Needs Study): BUSHES AND TREES ON LAVA ROCK (52.56) | 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) (53.53); (392+75) (53.67); (11G-01-04, DRAINAGE IMPR. 2008)

Project No., Type of Construction, and Year Constructed: (50.28) (50.65) (51.28) (51.43) 11HKL-01-07M, (R), 1998; 11G-01-91M, 1992; (56.74) 11FG-01-90M, (R), 1991

Road Diagram

* MP = Milepost Signage

CONTINUED FROM SHEET #5

KEAIWA BR. (50.35 MI.) | KAMANI ST. (50.99 MI.) | PAUAU BR. (51.32 MI.) | POWER SUBSTATION (51.73 MI.) | CULVERT (51.96 MI.) | CULVERT (52.07 MI.) | CULVERT (52.10 MI.) | PAVED RD. (52.20 MI.) | MAILE ST. (52.32 MI.) | CULVERT (52.73 MI.) | MOAULA HONOKOA BR. (52.89 MI.) | CULVERT (52.99 MI.) | CULVERT (53.13 MI.) | CULVERT (53.24 MI.) | KANENELU BR. (53.45 MI.) | CULVERT (53.50 MI.) | CULVERT (53.92 MI.) | PAVED ROAD (53.99 MI.) | CULVERT (54.12 MI.) | CULVERT (54.23 MI.) | PUNALUU BR. (54.30 MI.) | CULVERT (54.53 MI.) | PAVED RD. (R) TO PUNALUU BLACK SAND BCH. (L) (54.99 MI.) | BEGIN PAINTED MEDIAN (55.83 MI.) | NINOLE BR. (55.98 MI.) | END PAINTED MEDIAN (56.32 MI.) | NINOLE ROAD (56.49 MI.) | PAVED ROAD (56.58 MI.) | HILEA BRIDGE (56.98 MI.) | PAVED ROAD (57.51 MI.) | (57.70 MI.) | (57.98 MI.) | (58.98 MI.) | PAVED ROAD (59.38 MI.) (59.97 MI.)

MAMALAHOA HWY. (388+37)

CONTINUED ON SHEET #7

SCALE: (In Miles) 2" = 1 mile

Divided Highway

Undivided

Shoulder: Width and Type: 4'–9' AC (50.16) (50.28); 4'–8' GRASS (50.65); 5' AC (51.26); (51.46) (4'–8' GRASS); 4' AC; (56.74); 4'–6' AC; (58.46) (58.42) (15' AC); 4'–6' AC

Pavement: Width and Type: (6' GRAVEL); (8' GRAVEL) 22' AC; 20' AC; 10'–18' AC; 20' AC

Shoulder: Width and Type: 4'–9' AC (50.16) (50.28); 5'–15' GRASS (50.65); 5' (51.13) 8' AC (51.26); (51.37); (51.46) (6'–16' GRASS); 4' AC; 0; 4' AC (56.74); 4'–6' AC

Median: Width and Type: 12' PAINTED MEDIAN (56.32) (56.98)

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' | (51.37) | 2–10' | 1–10'–18' (L) & (R) (56.32) (56.49) | 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): (CONC. GUTTER) (50.10) (50.16) (50.28); (50.65) (50.77) (50.89); (AC GUTTER) (51.26); (51.37) (51.24) (51.26) (51.35); (51.46) (4' CONC. GUTTER) (53.47) (53.53); (56.49) (56.53)

Protective Devices: Type, Location and Number: METAL ON METAL

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

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

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 04602 | B71 0011 05649 | (B71 0011 05997)

HPMS Sections – AADT 2009: 2,085 | 2,478 | (2,478)

HPMS Sections – AADT 2008: 2,081 | 2,473 | (2,473)

HPMS Sections – AADT 2007: 2,125 | 2,525

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (6)

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

Previous Projects: Project No., Date and Limits

11 HKL-01-97M, (RESURFACE), 1998 (51.37); 11GH-01-82M, (RESURFACE), 1982 (51.43); (52.64) (11GH-01-82M, (R), 1982) (54.21) (54.53); (50.53) 11GH-01-81, (SHLDR. STAB.), 1981 (53.66); (11G-01-78, (SHLDR. STAB.), 1978); FAP 18 B 1938 (53.73); FAP 18C(1), 1940 (56.19); FAP 18C(1), 1938

SCALE: (In Miles) 2" = 1 mile

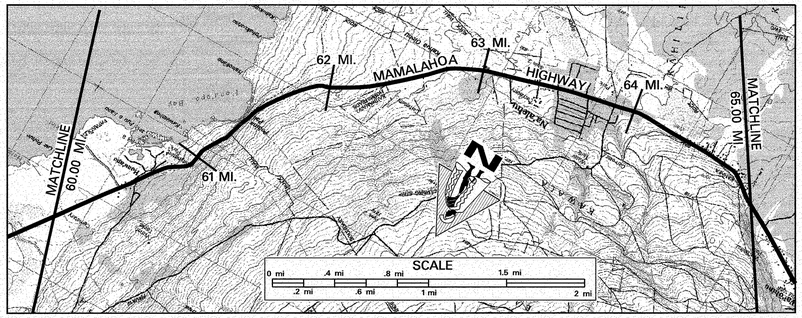
Date Released
Jan. 2006, D.B.
Revised
6/06 D.B.
4/09 D.B.
9/10 D.B.

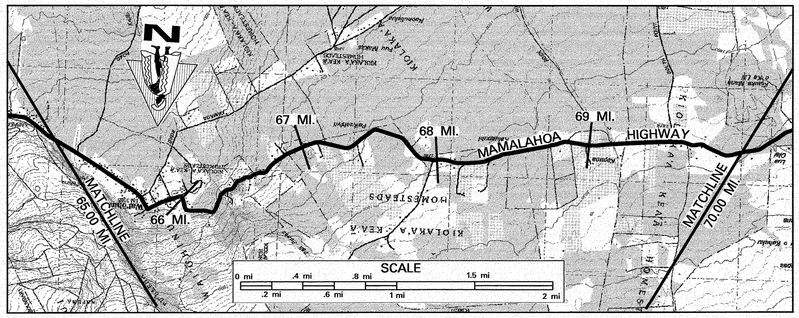
ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HIGHWAY

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: 122.08 miles
a. Survey Length: 122.08 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

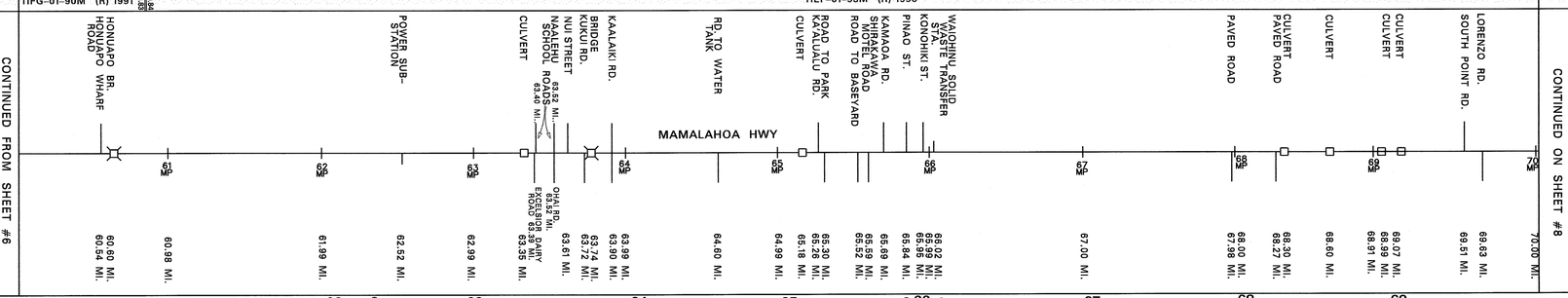
11G (9.20 MI.) — END 11.F – BEGIN 11.G ON MAMALAHOA HWY AT CENTER-LINE INTERSECTION WITH HONUAPO WHARF RD.
11F (8.98 MI.)
END 11E – BEGIN 11F ON MAMALAHOA HWY 79' WEST OF CENTER-LINE INTERSECTION WITH SOUTH POINT ACCESS ROAD.
11E (9.31 MI.)

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 15' FROM PAVEMENT / (ROCK WALL) / FENCE / ROCK WALL
Control of Access: 1–None, 2–Partial, 3–Full: STATE / NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): (COUNTY, P-1942, 1974)
Project No., Type of Construction, and Year Constructed: 11FG-01-90M (R) 1991
Project No., Type of Construction, and Year Constructed: 11EF-01-93M (R) 1996

Road Diagram

* MP = Milepost Signage



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'–16' GRASS / 4'–6' BP / 8' GRASS / 15' GRS. / 0' / 15' AC / 2'–8' GRASS / 2'–8' BP / 0' / 2'–6' GRS. / 2'–6' GRV. / 2'–8' GRASS / 2' – 4' AC
Pavement: Width and Type: 20' AC (12' GRAVEL) / 22' AC / 20' AC / 24' AC / 18' AC (6'–12' GRV.) (12' AC) / 22' AC
Shoulder: Width and Type: 4'–6' AC / 6' AC / 2'–10' GRASS / 4'–8' AC / 2'–6' GRASS / 2'–5' AC / 4'–16' GRS. / 4'–16' GRV. (6'–10' BP) / 6'–10' AC / 5'–10' GRASS / 4'–8' AC / 18' DIRT / 4'–12' AC / 4'–10' GRASS / 4'–18' GRAVEL / 2'–8' GRS. / 2'–8' AC / 2'–10' GRASS / 2'–10' GRV. / 4'–12' AC / 4'–10' GRAVEL / 3'–6' F.Z. / 2' – 4' AC
Median: Width and Type
Median Barriers:
Shoulder: Width and Type
Pavement: Width and Type
Shoulder: Width and Type

Number of Traffic Lanes: 2–10' / 2–11' / 2–12' / 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): (8' BP S.W.)
Sidewalk: Width and Type (Right and Left): 4' CONC. S.W. / 2' AC S.W.
Curb and/or Gutter: Type (Right and Left): (AC ROLL) / CONC. CURB
Protective Devices: Type, Location and Number: METAL ON CONCRETE GUARDRAILS
Illumination: Type, Location and Number: MV / MV
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING / MOUNTAINOUS / ROLLING
Speed: 1–Design, 2–Posted: 45 MPH (2) / (45 MPH (2)) (35 MPH (2)) 25 MPH (2) / 35 MPH (2) / 45 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing: (55 MPH (2) – MINIMUM 40 MPH)
Traffic Stations (Current Year): B71 0011 05997 / B71 0011 06054 / B71 0011 06184 / B71 0011 06299 / B71 0011 06390 / B71 0011 06595 / B71 0011 06798
HPMS Sections – AADT 2009: 2,478 / 2,478 / 2,478 / 2,478 / 2,478 / 3,670 / 3,670
HPMS Sections – AADT 2008: 2,473 / 2,473 / 2,473 / 2,473 / 2,473 / 3,663 / 3,663
HPMS Sections – AADT 2007: 2,525 / 2,525 / 2,525 / 2,525 / 2,525 / 3,740
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (6)
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. 749 + 50) — COUNTY (P-1942) 1974 — COUNTY (P-1829) 1974

SCALE: (In Miles) 2" = 1 mile

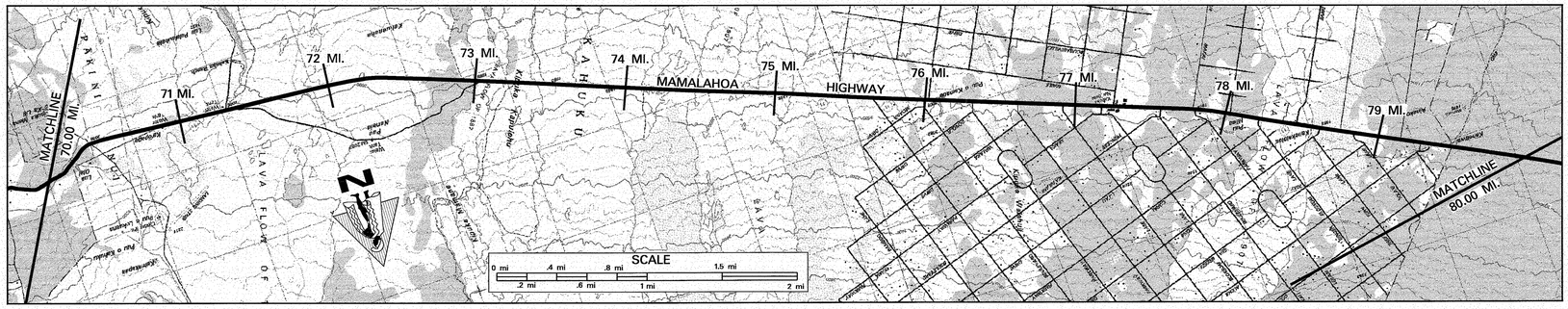
Date Released
Feb 2001
Revised
5/06 G.N.
9/10 D.B.

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: 122.08 miles
a. Survey Length: 122.08 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 (70.49–72.48) | TREES & BRUSH (72.48–73.04, 73.07–73.18) | 1000' CLEAR – LAVA ROCK 15' FROM EDGE OF PAVEMENT (73.18–75.80) | TREES AND HEAVY BRUSH (75.80–78.81)

Right of Way Fence: Type – Right and Left: ROCK WALL / ROCK WALL (70.34–73.04) | ROCK WALL (74.10–75.80) | ROCK WALL / ROCK WALL (75.80–77.44) | 77.76–77.89 (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: STA 837+00 – 73.84 | 11E-01-02M GUARDRAIL & SHOULDER IMPROVEMENT 2005 | 77.37 – STA 610+00

Project No., Type of Construction, and Year Constructed: 11EF-01-93M, (R), 1996 | 72.48 COUNTY (P-1957) 1977 73.23 | 11E-01-75, 1976 | 75.44 11EF-01-93M, (R), 1976 | 78.44 11D-01-79M, (RESURF.), 1979

Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #7

KAHUKU RANCH RD. (70.00 MI.) | KAHUKU RANCH RD (70.22 MI.) | OLD HAWAII BELT RD. (71.00 MI.) | ROAD (71.32 MI.) | MAMALAHOA HWY | ENTRANCES TO SCENIC LOOKOUT (74.85 MI.) | TIKI LANE (75.66 MI.) | SPORTS BAR & RESTAURANT (75.81 MI.) | KOHALA BLVD. KING KAMEHAMEHA (76.00 MI.) | DONOLA DR. (76.33 MI.) | ORCHID PARKWAY (76.63 MI.) | BEG DIVIDED (76.93 MI.) | LEHUA LANE (76.84 MI.) | LOTUS BLOSSOM LN (77.10 MI.) | END DIVIDED PRINCE KUHIO DR (77.18 MI.) | HAWAII BLVD. (77.41 MI.) | LEILANI PRKWY. (R) LEILANI MAKAI (L) (77.58 MI.) | KULA KAI BLVD. (77.83 MI.) | GINGER BLOSSOM LN (77.81 MI.) | ROAD (KONA GARDEN ESTATES) (77.80 MI.) | KONA DRIVE (78.05 MI.) | IOLANI LANE (78.24 MI.) | ALOHA BLVD. (78.45 MI.) | (78.65 MI.) (78.89 MI.) (78.83 MI.) (79.34 MI.) (79.83 MI.)

CONTINUED ON SHEET #9

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided
- Shoulder: Width and Type: (0-8' GRAVEL) 70.07–73.21 8' AC | 73.21–78.90 8'–10' AC | 78.90–79.83 6' BP
- Pavement: Width and Type: (22' AC) 70.07–73.21 24' AC | 73.21–78.90 24' AC | 78.90–79.83 22' AC
- Shoulder: Width and Type: (2'–12' CINDER) 70.07–73.21 8' AC | 73.21–78.90 8'–10' AC | 78.90–79.83 6' BP

Divided Highway – Median
- Median: Width and Type: 77.10–77.41 12' 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: (2–11') 70.07–78.90 2–12' | 78.90–79.83 2–11'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side): 77.18–77.27 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)

Protective Devices: Type, Location and Number ALL GUARDRAILS STEEL ON STEEL

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative: 74.35 –4.43 74.48 | 74.48 +2.34 74.83 | 74.83 –0.85 75.00 | 75.00 +2.85 75.34 | 75.34 –1.38 75.46

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

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

Speed: 1–Design, 2–Posted: 45 MPH (2) 70.22–70.32 | 55 MPH (2) 70.32–71.42 | 45 MPH (2) | 55 MPH (2) | 79.04 55 MPH (2) (MINIMUM 40)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 06738 | B71 0011 07022 | B71 0011 07663 | B71 0011 07758

HPMS Sections – AADT 2009: 3,670 | 3,670 | 3,670 | 3,670

HPMS Sections – AADT 2008: 3,663 | 3,663 | 3,663 | 3,663

HPMS Sections – AADT 2007: 3,740 | 3,740 | 3,740 | 3,740

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (6)

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

Previous Projects: Project No., Date and Limits
(COUNTY (P-1829) 1974) 70.07 | COUNTY (P-1957) 1974 72.46 | COUNTY 823+00 73.23 | 11E-01-75 1976 75.46 | COUNTY 765+00 75.44 | COUNTY (P-2129) 1977 78.90 | COUNTY 523+00 | 11D-01-79M (RESURF.) 1979 | 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.

ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HWY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
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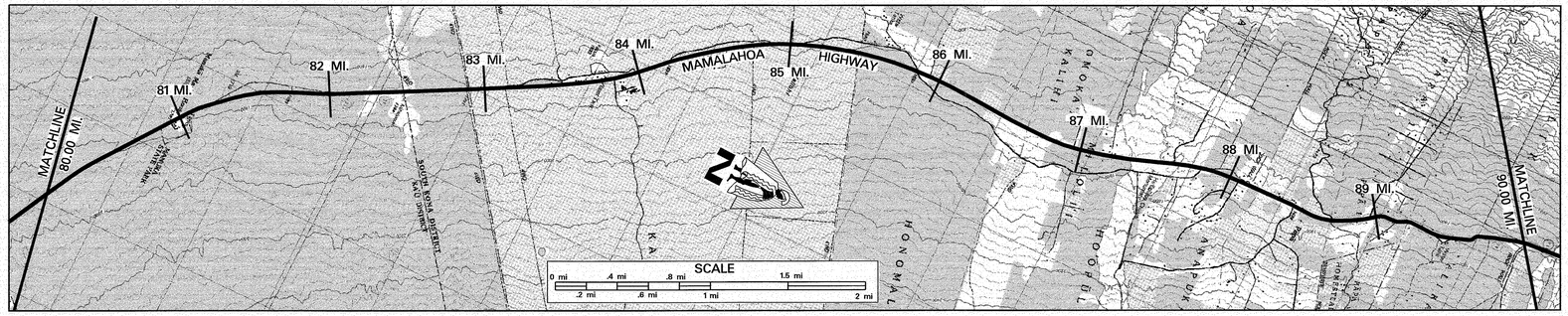
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 122.08 miles
a. Survey Length: 122.08 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 D (9.85 MI.) | END 11C – BEGIN 11D ON MAMALAHOA HWY AT THE CENTERLINE INTERSECTION WITH MILOLII ACCESS ROAD. 88.93 | 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') 80.20 80' 80.36 80.55 90' 80.69 80' 81.43 90' 81.63 80' 82.46 80'–120' 83.42 83.60 80' 84.40 80'–105' 85.36 80' 87.14 80'–150' 87.56 80'–95' 87.96 80'–90' 88.70 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) 80.62 80.83; (STONEWALL 20' FROM E.P.) 84.37 85.49; (STONEWALL 20' FROM E.P.) 85.92 86.96; RUBBLE WALL 20' FROM E.P. 88.21 FENCE 88.52; RUBBLE WALL 20' FROM E.P. 88.35 FENCE 88.52
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: 11D–01–79M, (RESURF.), 1979; 83.40 83.72 (BF-011-1(3), 1961); 11D–01–82M, (RESURF.), 1982; 88.61 11C–01–92, (R) 1994
Project No., Type of Construction, and Year Constructed

Road Diagram

* MP = Milepost Signage

CONTINUED FROM SHEET #8

MAMALAHOA HWY

Milepost	Mile	Feature
80.83	80.83 MI.	
80.97	80.97 MI.	MANUKA PARK ENTRANCE
81.83	81.83 MI.	
82.49	82.49 MI.	DISTRICT OF SOUTH KONA
82.83	82.83 MI.	
83.07	83.07 MI.	DRIVEWAYS
83.86	83.86 MI.	KAPUA MAUKA ROAD
83.83	83.83 MI.	
84.83	84.83 MI.	
85.11	85.11 MI.	HONOMALINO AGI. OFF. RD.
85.86	85.86 MI.	PAVED ROAD
85.83	85.83 MI.	
86.35	86.35 MI.	PAVED ROAD
86.56	86.56 MI.	ENTRANCE TO VARGAS STEWART RANCH
86.84	86.84 MI.	
86.96	86.96 MI.	PAVED ROAD
87.54	87.54 MI.	
87.83	87.83 MI.	ROAD
87.83	87.83 MI.	OLD MAMALAHOA HIGHWAY
87.97	87.97 MI.	LANI KONA RD.
88.37	88.37 MI.	HONOMALINO RD.
88.73	88.73 MI.	MILOLII VILLAGE ACCESS RD.
88.83	88.83 MI.	
88.98	88.98 MI.	PAPA BAY DRIVE
89.15	89.15 MI.	PAPALANI PLACE
89.46	89.46 MI.	
89.82	89.82 MI.	ROAD

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

Divided Highway – Divided:
Median: Width and Type: 89.76
Median Barriers:
Shoulder: Width and Type
Pavement: Width and Type
Shoulder: Width and Type

Shoulder: Width and Type: 0'–6' GRASS 8' AC 0'–6' AC; 88.61 20' AC 89.57 24' AC 20' AC; 2'–8' GRAVEL 8' AC 2'–8' GRV.

Number of Traffic Lanes: 2–11'; 88.61 2–10' 89.57 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: 83.96 84.07 84.14 84.23 84.34 84.09 METAL ON METAL; METAL ON METAL 87.00 87.08
Illumination: Type, Location and Number
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING; 89.46 MOUNTAINOUS
Speed: 1–Design, 2–Posted: 55 MPH (2) (MINIMUM 40); 88.69 (45 MPH (2)) 88.67 88.92 35 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0011 07758; 88.37 B71 0011 08837
HPMS Sections – AADT 2009: 3,670; 3,670
HPMS Sections – AADT 2008: 3,663; 3,663
HPMS Sections – AADT 2007: 3,740; 3,740
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (6)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits: 83.72 11D–01–82M (RESURF.), 1982; 89.12 (11BC-01-91 (IMPRV., REALIGN.), 1993) 89.57 89.74; 11D–01–79M (RESURF.), 1979 83.40 BF–011–1(3), 1961; 88.61 89.12 11C–01–76M (RESURF.) 1976; BF–011–1(3), 1959; (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.

ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
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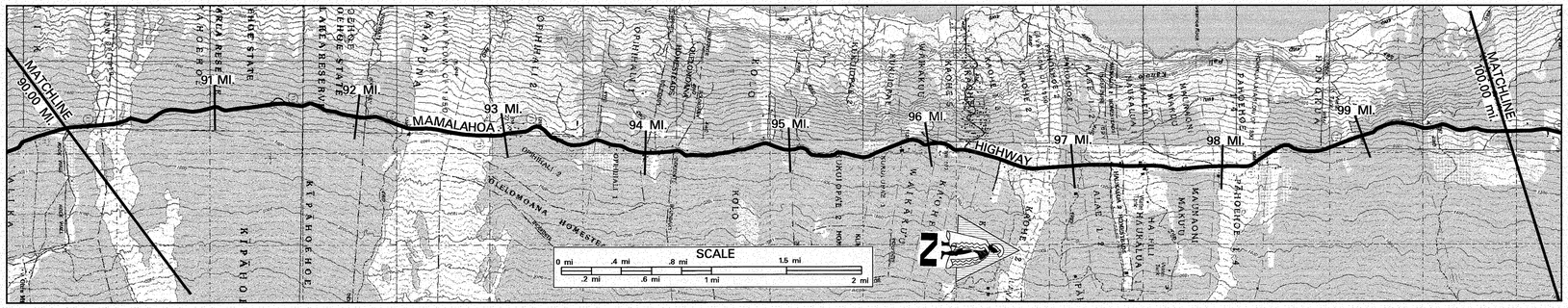
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 122.08 miles
- **a. Survey Length:** 122.08 miles
- **b. Proposed Length:** 0.00 miles
- **c. Other Length: *** 0.00 miles

*



SCALE: (In Miles) 2" = 1 mile

90 91 92 93 94 95 96 97 98 99 100

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

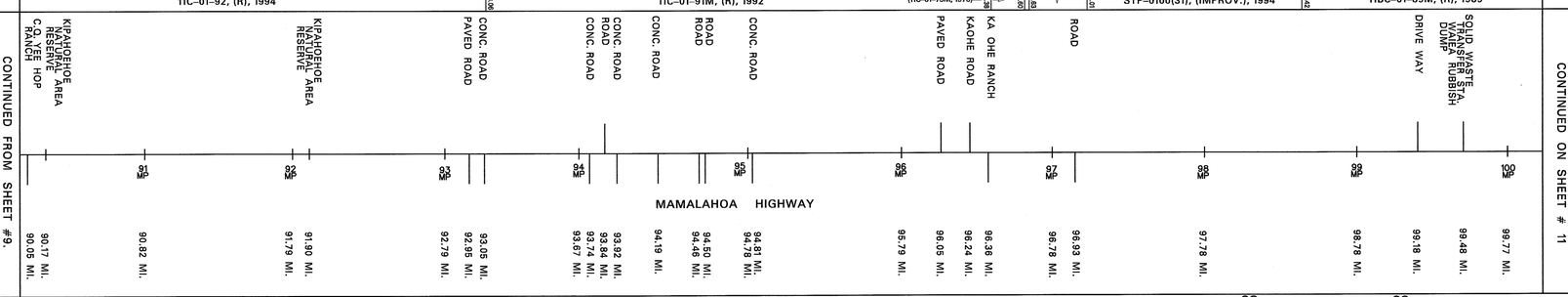
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE

Project No., Type of Construction, and Year Constructed: (11C-01-90M, (R), 1990) (11C-01-76M, (R), 1976) 11BC-01-01M, (RESURFACE), 2004

Project No., Type of Construction, and Year Constructed: 11C-01-92, (R), 1994 | 11C-01-91M, (R), 1992 | (11C-01-75M, 1976) | 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
- 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 GUARDRAILS METAL ON METAL

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

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

Speed: 1–Design, 2–Posted: 35 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Cuurent Year): B71 0011 08837

HPMS Sections AADT 2009: 3,670

HPMS Sections AADT 2008: 3,663

HPMS Sections AADT 2007: 3,740

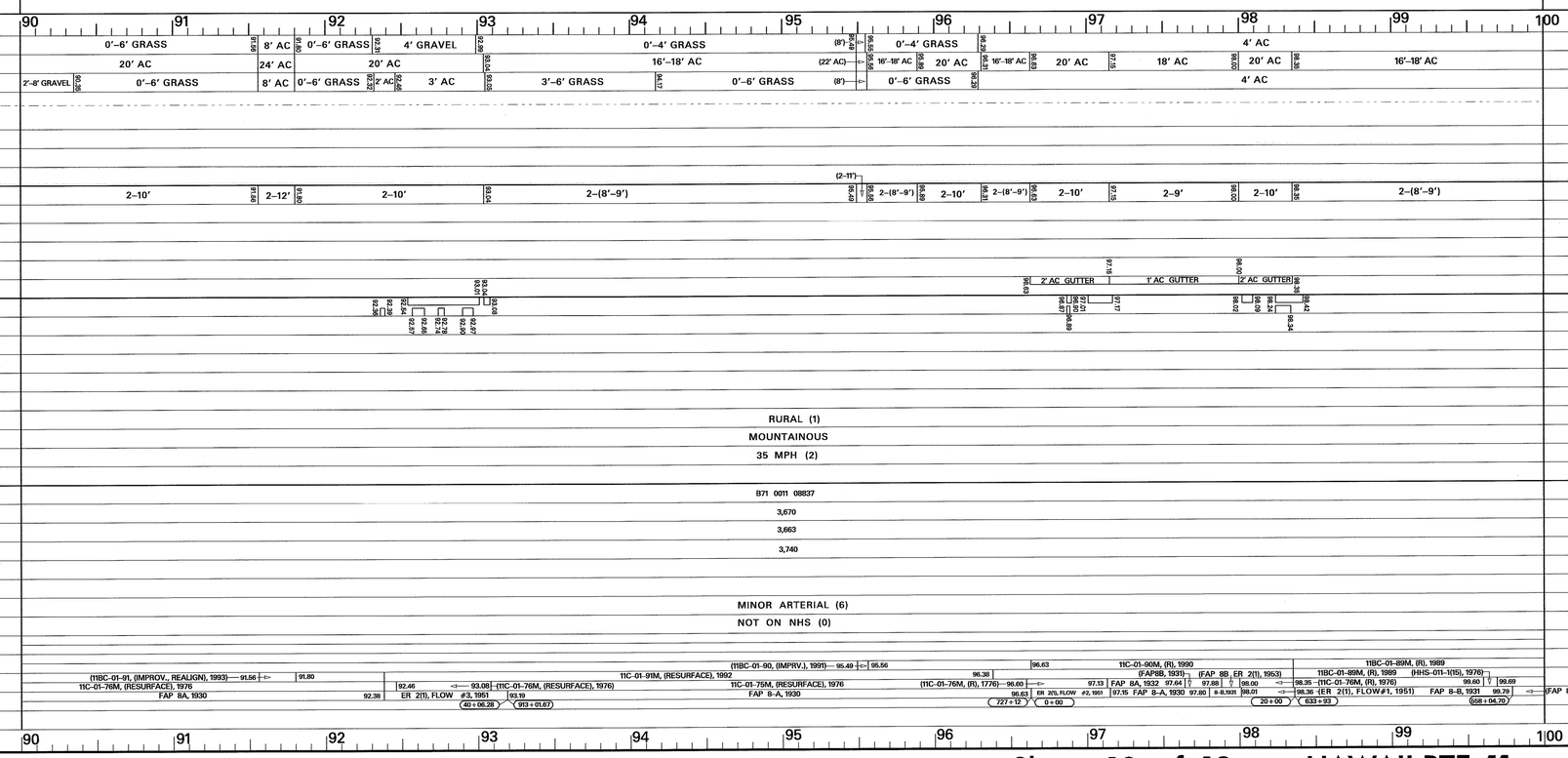
DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (6)

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.

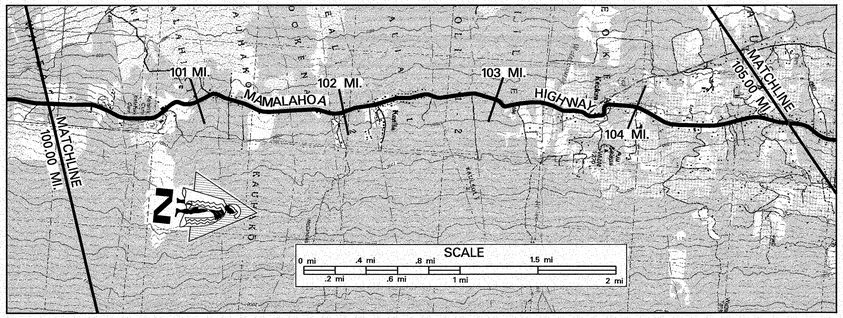
ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HWY

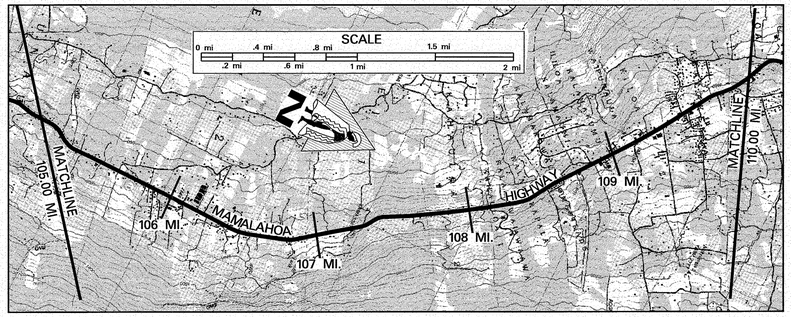
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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

Total Route Length: 122.08 miles
- a. Survey Length: 122.08 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

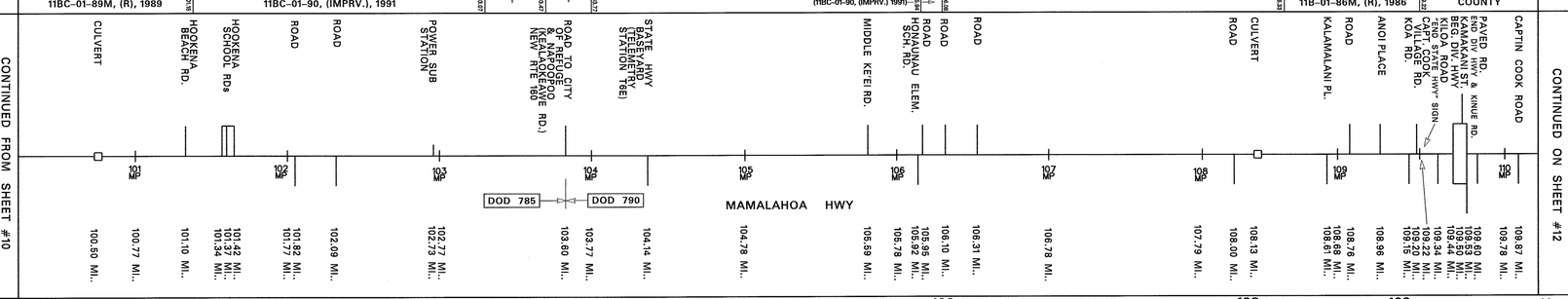
Structure Carrying Road: Bridges (Over 20'): Length, Type, Capacity and Year Constructed
Structure Carrying Road: Vertical Clearance
Structure Carrying Road: Horizontal Clearance
Structure Over Road: Vertical Clearance
Structure Over Road: Horizontal Clearance
Right of Way Width (min.–max.) if varies
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

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.)

Right of Way Width: 50′ | 50′–60′ | 60′
Available Right of Way Width (Needs Study): BRUSH & LARGE TREES | RESIDENTIAL AREA
Right of Way Fence: STONE WALL 20′ FROM EDGE OF PAVEMENT (FENCE) (CRM WALL) | STONE WALL 20′ FROM EDGE OF PAVEMENT (CRM WALL) (FENCE) | STONE WALL
Control of Access: NONE
Jurisdiction, Transfer Phase No. and Date: STATE | COUNTY
Project No., Type of Construction, and Year Constructed: 11BC–01–01M, (RESURFACE), 2004 (11B–02–89, (WIDEN) & RESURFACE), 1990) (11B–01–96M, (R), 1998) | 11B–01–96M, (RESURFACE), 1998
Project No., Type of Construction, and Year Constructed: 11BC–01–89M, (R), 1989 | 11BC–01–90, (IMPRV.), 1991 | (11BC–01–90, (IMPRV.) 1991) | 11B–01–86M, (R), 1986 | COUNTY

Road Diagram

* MP = Milepost Signage



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 GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED
Illumination: Type, Location and Number
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative
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 2009
HPMS Sections – AADT 2008
HPMS Sections – AADT 2007
DOD Sections
Census Tracts
Functional Classification
National Highway System (NHS)
Previous Projects: Project No., Date and Limits

Shoulder: 4′ AC | 3′ AC | 4′ AC | 3′ AC | 6′ AC | 6′ GRASS | 4′ GRASS
Pavement: 16′–18′ AC | 18′ AC | 22′ AC | 18′ AC | 20′ AC | (10′ AC) 20′ AC
Shoulder: 4′ AC | 3′ AC | (0′–10′ GRASS) | (2′–4′ AC) | 3′ AC | 6′ AC | 2′ AC | 0 | 3′–15′ GRASS
Median: (PAINTED MEDIAN 0–10′)
Median Barriers: 0
Shoulder: (10′ AC)
Pavement:
Shoulder: (8′ GRASS)
Number of Traffic Lanes: 2–(8′–9′) | 2–9′ | 2–11′ | 2–9′ | 2–10′ | (2–12′) | 2–10′
Auxiliary Lanes and Parking Lanes: 10′ PARALLEL PARKING
Frontage Road:
Sidewalk: 6′ AC SIDEWALK | 5′ AC SIDEWALK | 3′ AC SIDEWALK | (6′ AC SIDEWALK) | 3′ AC SIDEWALK | 2′ AC SIDEWALK | 4′ CONC. SW | 8′ CONC. SW
Curb and/or Gutter: 1′ BITUMINOUS CURB | 1′ BITUMINOUS CURB | (BITUMINOUS CURB) | CONC. CURB | CONC. CURB
Protective Devices: M/C
Illumination: FLASHING SCHOOL SPEED LIMIT SIGNS
Curves:
Superelevation:
Grades:
Vertical Curve:
Area and Development: RURAL (1)
Terrain: MOUNTAINOUS | ROLLING
Speed: 35 MPH (2) | 45 MPH (MINIMUM 30 MPH) (2) | 30 MPH (2)
Intersection Control Devices:
Traffic Stations (Current Year): B71 0011 08837 | B71 0011 10110 | B71 0011 10360 | B71 0011 10922
HPMS Sections – AADT 2009: 3,670 | 5,849 | 6,400 | 9,911
HPMS Sections – AADT 2008: 3,663 | 5,837 | 7,200 | 9,891
HPMS Sections – AADT 2007: 3,740 | 5,960 | 10,100 | 10,100
DOD Sections:
Census Tracts:
Functional Classification: MINOR ARTERIAL (6)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: 11BC–01–89M, (R), 1989 | 11B–01–96M, (RESURFACE), 1998 | 11B–01–81M, (RESURFACE), 1981 | (11B–03–70, 1971)—(HHS–011–1(15), 1976) | 11BC–01–89M, (R), 1989 | 11B–03–70, 1971 | FAP 8–C, 1931 | FAP 8–D, 1931 | NRH 8–E, 1936 | WPH 8–F, 1936 | COUNTY EXCEPTION | WPH 8–F, 1936 | FAP 8–G, 1937 | COUNTY | NRH 8–E, 1935 | WPH 8–F, 1935 | 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.

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

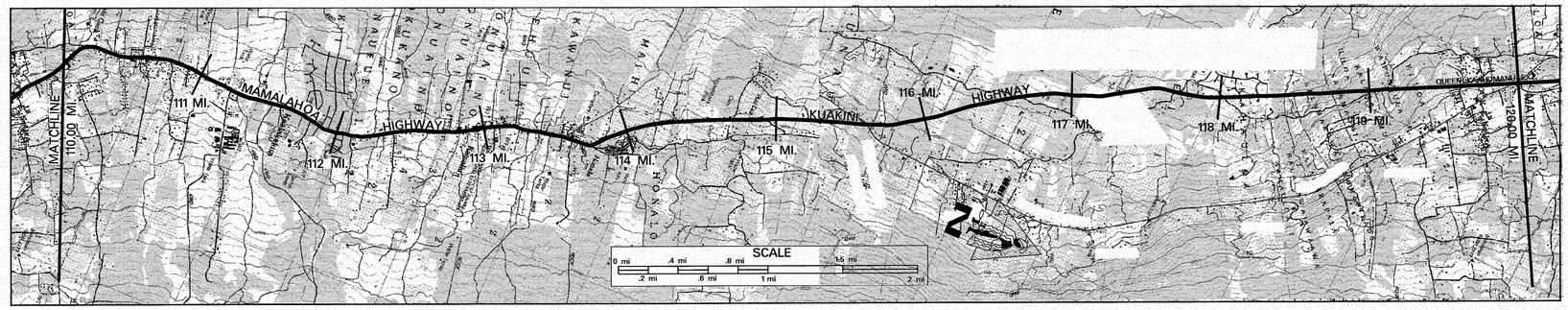
Total Route Length: 122.08 miles

a. Survey Length: 122.08 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

Available Right of Way Width (Needs Study)

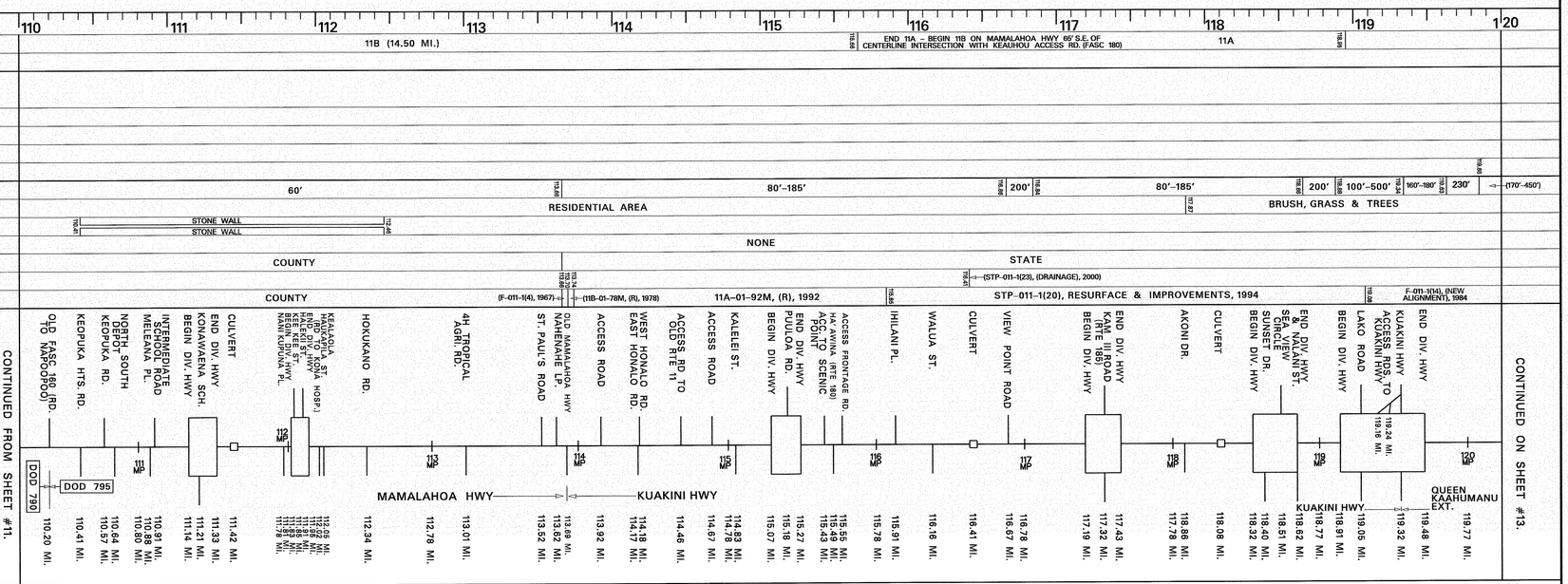
Right of Way Fence: Type – Right and Left

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

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided: Shoulder: Width and Type

Divided Highway – Undivided: Pavement: Width and Type

Divided Highway – Undivided: Shoulder: Width and Type

Divided Highway: Median: Width and Type

Divided Highway: Median Barriers:

Divided Highway: Shoulder: Width and Type

Divided Highway: Pavement: Width and Type

Divided Highway: 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: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

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 2009

HPMS Sections – AADT 2008

HPMS Sections – AADT 2007

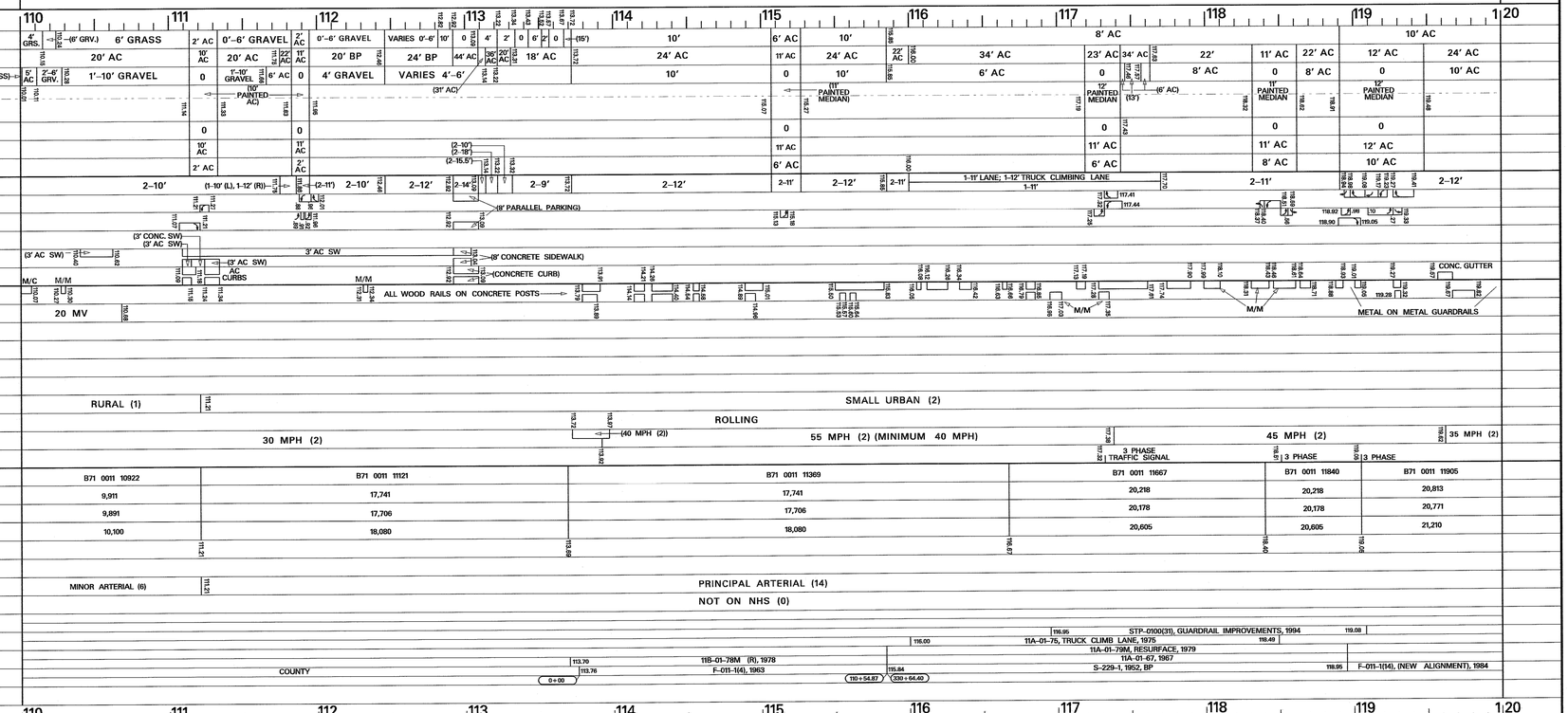
DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits



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.

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

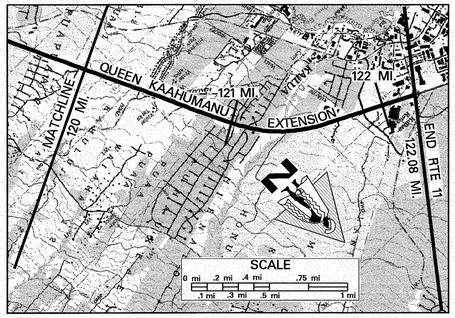
Total Route Length: 122.08 miles

a. **Survey Length:** 122.08 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 (75')

Vertical Clearance

Horizontal Clearance

Structure Over Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.-max.) if varies: 170'-450' (120.09; 210' 120.35; 170' 120.66; 300' 121.00; 110' 121.25; 330' 121.42; 170' 121.87; 210' 122.15; 220'-250')

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

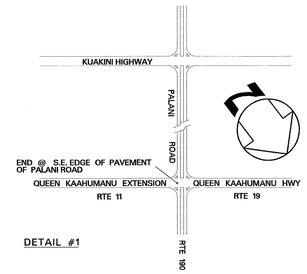
Right of Way Fence: Type – Right and Left: NONE

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

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): (193+00) STATE (-125+93.66) (-95+30)

Project No., Type of Construction, and Year Constructed: 11A-01-02 Inter Imp 2005 (120.37); (197+50); NH-019-01(20) WIDENING, 2009 (121.87; 122.09)

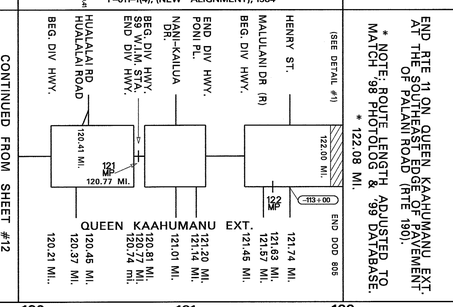
Project No., Type of Construction, and Year Constructed: F-011-1(4), (NEW ALIGNMENT), 1984



DETAIL #1

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: 24' AC | 12' AC (24' AC) | 12' AC | 24' AC | 24' AC | 36' AC (24' AC)

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

Median: Width and Type: 12' PAINTED MEDIAN | 12' PAINTED MEDIAN | 0-30' PAINTED MEDIAN (14' GRS (RAISED))

Median Barriers:

Divided Highway – Undivided

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

Pavement: Width and Type: 12' AC | 12' AC | 24' AC | 36' AC (24' AC)

Shoulder: Width and Type: 10' AC | 10' AC | 10' AC | 0 (6' AC BIKE LANE)

Number of Traffic Lanes: 2-12' | 4-12' | 6-12' (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 CONC. GUTTERS; C & G; C & G

Protective Devices: Type, Location and Number: ALL METAL ON METAL GUARDRAILS; (ALL 12' TLs)

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

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: SMALL URBAN (2)

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

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

Intersection Control Devices: Type, Location and Cycle Timing: 3 PH; 4 PH

Traffic Stations (Current Year): B71 0011 11905; B71 0011 12045; B71 0011 12114

HPMS Sections – AADT 2009: 20,813; 21,700; 31,164

HPMS Sections – AADT 2008: 20,771; 24,727; 31,102

HPMS Sections – AADT 2007: 21,210; 25,250; 31,760

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (14)

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

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.

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

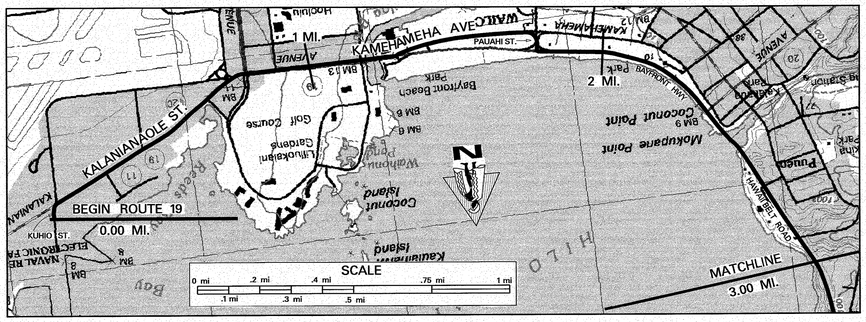
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

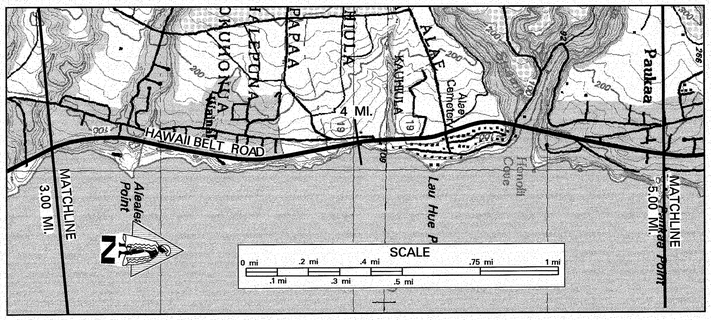
PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 99.59 miles
- a. **Survey Length:** 99.59 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') (1.23); STEEL MULTISTRINGER 1950, H20 (442') (2.50); TEE BEAM 1949, H20 (146') (2.84); CONCRETE TEE BEAM 1936 H15 (544') (4.48)
- Vertical Clearance: (106') (1.23); (28') (2.50); (28') (2.84); (24') (4.48)
- Horizontal Clearance
- Structure Over Road — Vertical Clearance: (23'-02") (3.05); (18'-02") (3.26)
- Structure Over Road — Horizontal Clearance: (57') (3.05); (44') (3.26)

Right of Way Width (min.-max.) if varies: (2.29) 75'-120' (3.42); 70'-261'

Available Right of Way Width (Needs Study)

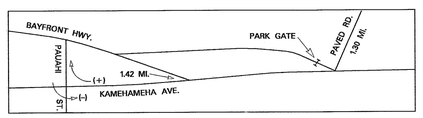
Right of Way Fence: Type – Right and Left: NONE (0.84); PARTIAL (2.98); NONE

Control of Access: 1–None, 2–Partial, 3–Full: STATE (1.30); COUNTY (1.83); (76+50) (2.67); (39+50) STATE (3.36)

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

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); BR-019-2(50), 2009, OVERPASS REMOVAL; (19J-01-97M, (R), 1999)

Project No., Type of Construction, and Year Constructed: (0.15) STP-0100(037), (IMPRV.), 1997 (0.75); NH-019-2(54), (BIKEWAY IMPRV.), 2003 (1.48) (1.49); STP-019-2(31), (R), 1995 (2.48) (2.55); STP-019-2(34), (RESURFACE), 1998 (4.87)



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.)

SILVA ST. / KALANIANAOLE ST. & END DIV. HWY / BEGIN DIV. HWY — PAVED ROAD — KUMAU ST. — KEAA ST. — END DIV. HWY & BEG. DIV. HWY — END DIV. HWY & BEG. DIV. HWY — KAMEHAMEHA AVE. — KANOELEHUA AVE / BANYON DR. (R) — KALANIKOA ST. — BEG. DIV. HWY — WAILOA BRIDGE / UMIKA ST. (R) / MANONO ST. (L) — SEE DETAIL #1 — PAVED ROAD — ONE WAY ROAD — ROAD FROM PARKING LOT — BEG. DIV. HWY / END DIV. HWY — BAYFRONT HWY. / PAUAHI ST. (1.78 MI.) — END DIV. HWY — BEG. DIV. HWY — WAIANUENUE AVE (FAU-C 1950) (2.39 MI.) — WAILUKU BR. / END DIV. HWY — PUKIHAE ST. — PUKIHAE BRIDGE — BEG. DIV. HWY — H.S.P. CO. / HILO PLNT. (R) / HILO FLUME O.P. — END DIV. HWY / HILO PLNT. RD. O.P. / HAU ST. — SCENIC LOOKOUT — WAINAKU ST. — ALAE CEMETARY ENTRANCE — NAHALA ST. (R) / KAHOA RD. (L) — HONOLII BRIDGE — BEG. DIV. HWY — KULANA ST. / PAUKAA DR. — END DIV. HWY — KAHOA PL.

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

0.00 MI. 0.10 MI. 0.08 MI. 0.00 MI. 0.29 MI. 0.34 MI. 0.43 MI. 0.64 MI. 0.69 MI. 0.79 MI. 0.84 MI. 0.94 MI. 1.05 MI. 1.23 MI. 1.21 MI. 1.33 MI. 1.43 MI. 1.53 MI. 1.65 MI. 1.69 MI. 1.78 MI. 1.83 MI. 1.96 MI. 2.32 MI. 2.40 MI. 2.50 MI. 2.49 MI. 2.74 MI. 2.70 MI. 2.84 MI. 3.04 MI. 3.13 MI. 3.09 MI. 3.32 MI. 3.26 MI. 3.53 MI. 3.75 MI. 4.04 MI. 4.19 MI. 4.28 MI. 4.49 MI. 4.78 MI. 4.73 MI. 4.68 MI. 4.87 MI. 4.94 MI.

CONTINUED ON SHEET #2 5.00 MI.

SCALE: (In Miles) 4" = 1 mile

Divided Highway — Undivided

- Shoulder: Width and Type: (6' GRS.) 0.24 (0.04) 6'-15' GRASS (0.12) (4'-6' AC) 0.64; 25' GRASS 0.69; 0 (0.79) 0 (0.84) 5' AC SHLDR. / BIKELANE (0.94) 2'-4' AC 1.05 8'-20' AC 1.23 (6'-8' GRASS) 1.15; 0'-1' AC 1.88; 8' AC 2.32; 30' AC 2.40 (0'-1' AC) 2.46; 4' AC 2.48; 4' AC; 4' AC; 4' AC; 8' AC 4.68 (5' AC) 4.87 4.90 (6' AC)
- Pavement: Width and Type (ALL PAVEMENT AC): 28' (16') (25' GRS./GRV.) 28'; 12' 36' (0.79) (0.84) 46' 45'; 24' AC 1.48; 28' AC; 28' AC 1.76; 12' AC 1.84; 32' AC (20' AC) 2.33; 24' (12' AC) 2.48; 24' (50') 3.04; 27' 3.26; 53' 3.38; 24' (22' AC) 4.68; 12' AC 24' AC
- Shoulder: Width and Type: (6'-8' GRASS) 0 0 0 15' 10' AC 15' GRS. 8'-12' GRS. (32' GRV.) 0 16' AC (0.79) (0.84) 0.94 5' AC SHLDR. / BIKELANE; 0 (0'-12' PAINT); 0 (0'-1' AC) 1.05; 0 1' AC 1.84 8' AC; 8' AC; 0 1' AC; 4' AC; 0 4' AC; 0 6' AC

Divided Highway — Divided

- Median: Width and Type: 0.03 0.10 0.12 0.16 0.22 0.24 (0'-8' PAINT); 0'-20' PAINTED AC (PAINTED AC) 1.05 1.63; 1.65 0'-10' RAISED AC (1.84) (1.86) 1.88 (0'-12' PAINTED AC) 2.32; 2'-12' RAISED GRASS; 3.04 4'-12' GRASS M/M 3.32; 0'-8' PAINTED AC
- Median Barriers:
- Shoulder: Width and Type: 0 0 1' AC; 0 1' AC; 0 1' AC; 0
- Pavement: Width and Type (ALL PAVEMENT AC): 12' (15') 22' AC; 22' AC 1.88; 20' AC 20' AC; 16' AC; 26'; 12' AC
- Shoulder: Width and Type: 0 (8'-16' AC) 0.84 (1-13') (1-11') (1-11') (1-12') 5' AC SHLDR. / BIKELANE 1.39; 8' AC 1.42; 0'-1' AC 1.48; 0'-1' AC 1.82; 2' AC; 8' AC 2.40; 5' AC; 4' AC; 8' AC

Number of Traffic Lanes: (2-14') (1-15') (1-15') 2-14' (1-12') (1-12') 1-14' 2-12' 1.48 2-14' 1.76 1-12' 1-20' (1-12') 2-12' 3.00 2-12' 3.10 1-13' (L), 1-14' (R) 3.48 2-12' (2-11') 4.65 2-12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 11' TL 0.74 0.84 (1-10') (1-12') 14' 1.21 11' 1.28 1.32 1.42 1.62 11' TL 1.74 1.83 (2-12') 2.40 2-12' TLs 2-13' 3.25 12' TL 3.37 3.45 10' T.Ls 11' TL 3.47 3.55 4.72 4.81 4.78 12' TL 12' ACC. LN.

(Right Side): (10' PARKING LN.) 12' TL 0.69 0.80 0.84 10' T.L. 1.16 (60') 12' T.L. 1.21 1.27 1.33 12' T.L.

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

Sidewalk: Width and Type (Right and Left): 0.03 0.05 0.06 0.10 (8' CONCRETE) 0.80 8' CONC. 1.06 1.33 1.49 1.84 1.73 2.27 4.05 4.08 4.82 4.88

Curb and/or Gutter: Type (Right and Left): 0.03 0.07 0.14 (CONC. CURB) 0.80 0.80 CONC. CURB 1.06 CONC. CURB 1.33 1.62 1.90 CURB + GUTTER 2.32 CURB + GUTTER 2.45 2.46 2.61 2.73 2.85 2.87 2.89 2.94 2.95 3.02 3.24 3.27 3.32 3.34 3.69 3.86 3.99 4.16 WOOD ON CONC. METAL ON CONCRETE 4.79 4.84

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

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: SMALL URBAN (2) 2.89 RURAL (1)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: FLAT 2.87 ROLLING

Speed: 1–Design, 2–Posted: NOT POSTED 0.22; 35 MPH (2) 1.62; 55 MPH (2) 2.16; 45 MPH (1) 2.44; 35 MPH (2) 2.71; 45 MPH (2) 3.30; 55 MPH (2) (MINIMUM 40 MPH)

Intersection Control Devices: Type, Location and Cycle Timing: 0.94 3 PHASE; (B71 0019 00178) 1.78

Traffic Stations (Current Year): (B71 0019 00000) B71 0019 00008; B71 0019 00079 1.30; B71 0019 00130; B71 0019 00183; B71 0019 00249; B71 0019 00289; B71 0019 00322

HPMS Sections – AADT 2009: (14,969) 14,969; 19,625; 26,263; (13,500) 10,705 2.49; 16,254; 16,166

HPMS Sections – AADT 2008: (14,939) 0.89 14,939; 19,586; 26,211; (9,891) 10,684; 16,222; 16,222; 15,135

HPMS Sections – AADT 2007: 15,255; 20,000; 26,765; (10,100) 10,910; 16,565; 16,565; 15,455 0.79 1.33 1.78 1.83 2.48 2.89 3.22

DOD Sections: PRINCIPAL ARTERIAL (14) 2.89 PRINCIPAL ARTERIAL (2)

Census Tracts: ON NHS (1)

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits: 0.76 STP-019-2(32), (R), 1996 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; (SDR 3(8), 1950) 2.49; 19 K-01-72, (R), 1972 3.32; 19K-01-85M, (RESURFACE), 1985; 19JK-01-70 (RESURFACE & REHAB) 1971; 4.60 19J-02-88M, (R), 1988; SDR 3(1), 1948; 4.65 SDR-3(4), 1950; SDR-2(2), 1951 1.42; COUNTY TO STATE (PHASE 1) (60+00) (0+00) 2.57 (132+42) (86+64)

SCALE: (In Miles) 4" = 1 mile

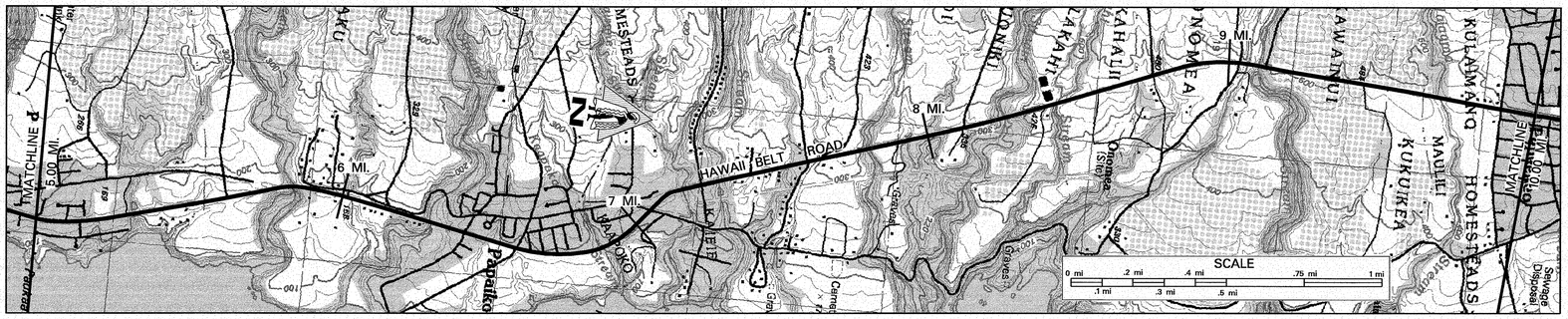
Date Released	
Feb 2006, D.B.	
Revised	
6/06	D.B.
9/10	D.B.

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: 99.59 miles
a. Survey Length: 99.59 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

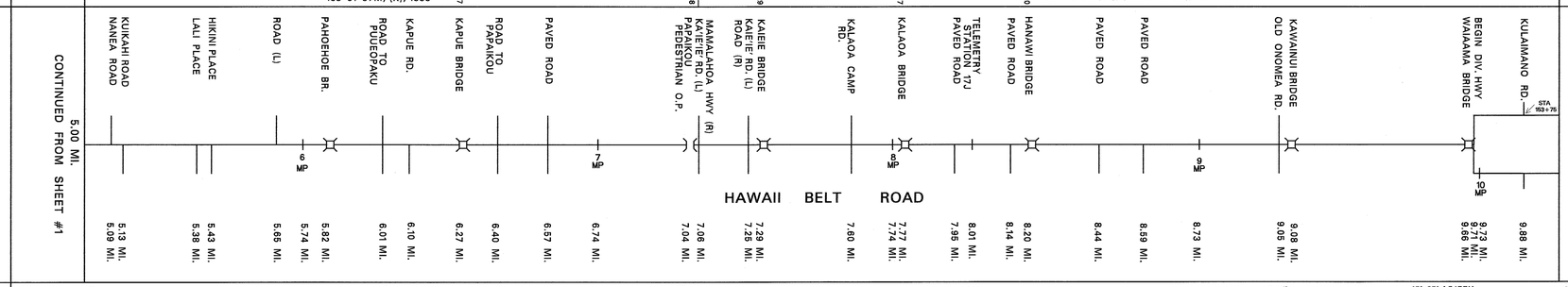
Bridges (Over 20'): Length, Type, Capacity and Year Constructed	CONC. MASONRY ARCH HS-20, 1912, (1967)	STEEL GIRDER & FLOOR BEAM H-20, 1950	PRESTRESSED BEAM HS-20, 1967	PRESTRESSED BEAM HS-20, 1967	PRESTRESSED BEAM HS-20, 1968	STEEL GIRDER & FLOOR BEAM H-20, 1948	PRESTRESSED BEAM 1968, HS-20
Vertical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

Structure Over Road

Vertical Clearance	15' 11" (7.08)
Horizontal Clearance	42'

Right of Way Width (min.–max.) if varies: 70'–261' (5.14); 70'–125' (5.63); 100'–250' (7.90); 80'–135' (9.66)
Available Right of Way Width (Needs Study): (SUGAR CANE) (9.66) ← (9.88) 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): STATE
Project No., Type of Construction, and Year Constructed: (19HJ-02-95M, (BRIDGE REPAIR), 1996); STA 144+40 (9.66); 19J-01-02 IMP 2005 (9.70); STA 159+00
Project No., Type of Construction, and Year Constructed: 19J-01-97M, (R), 1999 (6.27); (7.08); (7.29); (7.77); (8.20); STP-019-2(35), (RESURFACE), 1997

Road Diagram
* MP = Milepost Signage



SCALE: (In Miles) 4" = 1 mile

Divided Highway

Undivided	Shoulder: Width and Type	6' AC; 5'-AC (5.25); 6' AC (5.31); 5.07; 5'–10' AC; 6.46; 6' AC; 6.67; 5'–8' AC; 7.08; 5' AC; 7.22; 7.29; 8'–14' GRASS/GRAVEL; 8.24; 4' AC; 8.41; 8'–18' GRAVEL; 8.82; 5'-AC (9.03); 9.08; 6' GRS (8' GRV.); 9.17; 11'–19' GRAVEL; 9.54; 3' AC; 9.66; 15'–25' AC/GRV; 9.98; 6' AC; 9.98 (2'–4' AC)
	Pavement: Width and Type	24' AC; 7.08; 22' AC; 8.31; 35' AC; 8.88; 22' AC; 9.85; 12' AC
	Shoulder: Width and Type	6' AC; 6.06; 5' AC; 6.18; 6' AC; 7.17; 5' AC; 7.22; 5' AC; 7.29; (8'–10' GRASS); 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; 9.66; 15' AC; 9.85; 0
	Median: Width and Type	10'–15' AC/GRV; 9.71; (0'–10' PAINTED MEDIAN); 9.97; (0'–10' PAINTED MEDIAN)
	Median Barriers:	
	Shoulder: Width and Type	0
	Pavement: Width and Type	12' AC
	Shoulder: Width and Type	6' AC; 9.97 (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) 9.92; 9.98
(Right Side): 8.31; 1–13' TRUCK CLIMBING LANE; 8.88; 9.77
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 (1) METAL ON METAL, (2) WOOD ON CONC., (3) METAL ON CONC.
Illumination: Type, Location and Number: 9.70 7 Low Pressure Sodium
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING
Speed: 1–Design, 2–Posted: 55 MPH (2), MINIMUM 40 MPH; 6.06; 6.07; 45 MPH (2); 7.82; 55 MPH (2), MINIMUM 40 MPH
Intersection Control Devices: Type, Location and Cycle Timing: FLASHING WARNING LIGHTS 6.97; 7.19
Traffic Stations (Current Year): B71 0019 00322; B71 0019 00640; B71 0019 00760; B71 0019 00966
HPMS Sections – AADT 2009: 15,165; 10,902; 14,400; 9,616
HPMS Sections – AADT 2008: 15,135; 10,880; 10,700; 9,597
HPMS Sections – AADT 2007: 15,455; 11,110; 11,110; 9,800
DOD Sections: 6.40; 7.60; 9.66
Census Tracts
Functional Classification: PRINCIPAL ARTERIAL (2)
National Highway System (NHS): ON NHS (1)
Previous Projects: Project No., Date and Limits
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.

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
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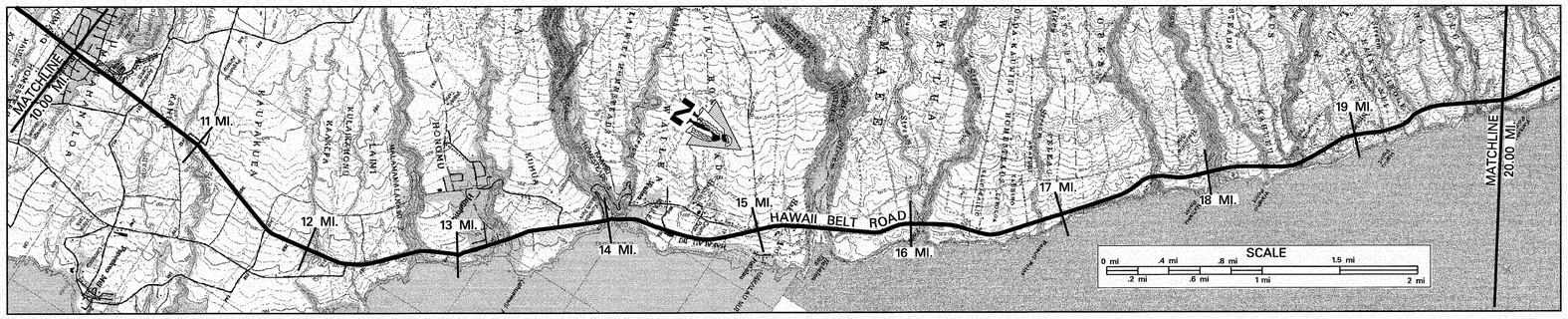
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 99.59 miles
a. Survey Length: 99.59 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'
- H-20, 1953 — 175'
- H-20, 1952 — 281'
- STEEL MULTI-STRINGER
- 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'

Vertical Clearance: H-15, 1934

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

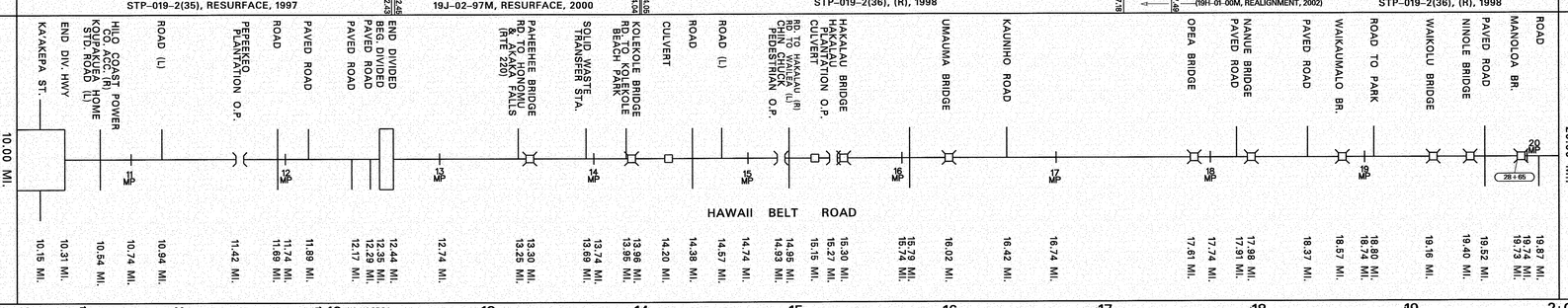
Project No., Type of Construction, and Year Constructed: (19J-02-85, TRUCK. CLIMB LN., 1987) / (19H-01-70, (R), 1971) / (NH-019—1(37), GRD RAIL & SHLDR IMP.,2009) / (19H-01-00M, REALIGNMENT, 2002)

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 / STP-019-2(36), (R), 1998

Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway

Undivided

- Shoulder: Width and Type — (2'-4' AC) / 10' 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 / 2.2' AC / 28' AC / 24' AC / 36' AC / 12' AC / 24' AC
- Shoulder: Width and Type — 0 / 8'-18' GRV / 4'-15' GRASS / 6'-8' GRV. / 5'-12' GRS. / 7' AC / 0 / 6' AC
- Median: Width and Type — 0'-10' PAINTED MEDIAN (12' PAINT)
- 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)

Curb and/or Gutter: Type (Right and Left): (6' AC GUTTER) (2)

Protective Devices: Type, Location and Number — ALL METAL ON METAL; (2) WOOD ON CONCRETE

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0019 00966 / B71 0019 01054 / B71 0019 01325 / B71 0019 01642 / B71 0019 01916

HPMS Sections – AADT 2009: 9,616 / 9,218 / 7,236 / 7,236 / 7,236

HPMS Sections – AADT 2008: 9,597 / 9,200 / 7,222 / 7,222 / 7,222

HPMS Sections – AADT 2007: 9,800 / 9,395 / 7,375 / 7,375 / 7,375

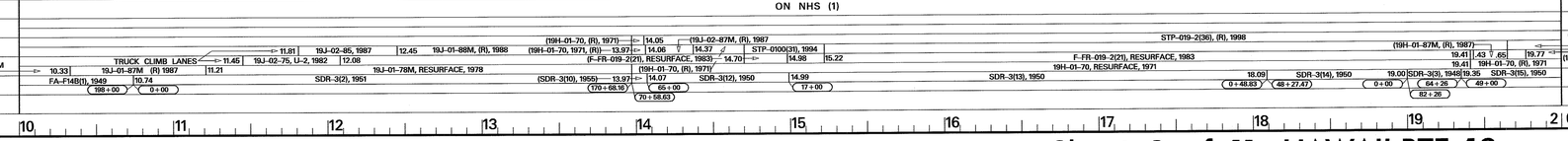
DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (2)

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.

ROAD INVENTORY
HAWAII RTE 19
HAWAII BELT ROAD

STATE OF HAWAII
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Total Route Length: 99.59 miles
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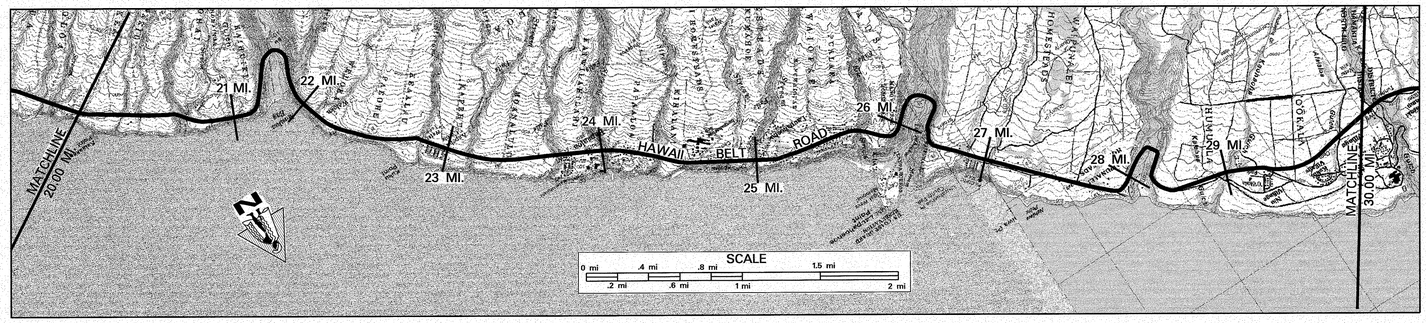


SCALE: (In Miles) 2" = 1 mile

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 1934, 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: 22' 32' 30' 22' 22' 28' 28' 28' 28' 28' 28'

Horizontal Clearance

Structure Over Road — Vertical Clearance: 16'-4"

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

Right of Way Width (min.–max.) if varies: 70' – 160' 20.22 100' – 220' 21.35 50' 21.55 100' – 215' 23.48 100' 25.49 100' – 150' 27.70 95' – 165' 29.51 100' – 140'

Available Right of Way Width (Needs Study): BRUSH AND LARGE TREES 22.05 — 1000' CLEAR SUGAR CANE 20' FROM PAVEMENT 23.72 — RESIDENTIAL AREA 25.38 — LARGER TREES AND CUT SLOPES; BRUSH 28.51 — 1000' CLEAR – SUGAR CANE 20' FROM PAVEMENT 29.66 — (WIRE ON WOOD, 20' FROM PAVEMENT (L) & (R))

Right of Way Fence: Type – Right and Left: NONE

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

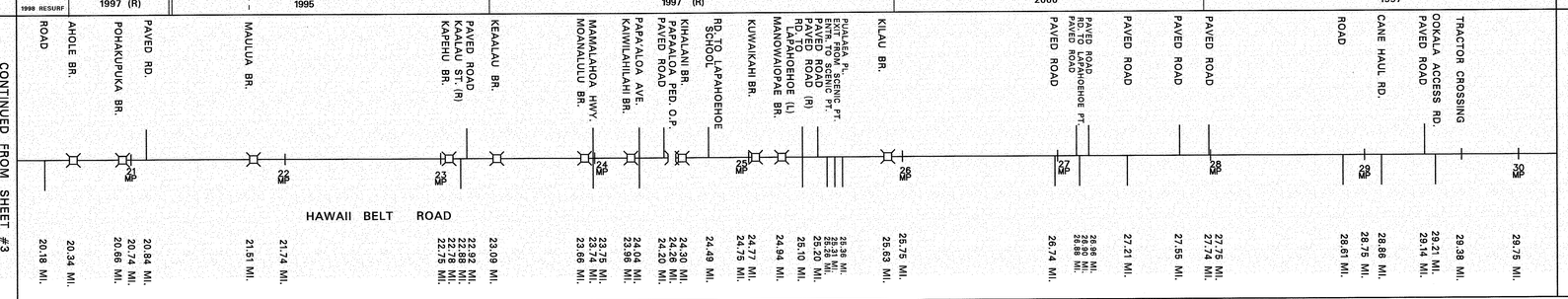
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): 19H-01-82M, 1982 — (19HJ-02-95M (BRIDGE REPAIRS) 1996)

Project No., Type of Construction, and Year Constructed: STP-019-2(36) 1998 RESURF — 20.34 STP-019-2(33) 21.01 1997 (R) — 21.03 — 21.61 STP-019-1(30) RESURFACE 1995 — 23.09 STP-019-2(33) 1997 (R) — 25.72 — 19H-01-99M RESURFACE 2000 — 27.73 STP-019-2(37) RESURFACE 1997

Project No., Type of Construction, and Year Constructed

Road Diagram

* MP = Milepost Signage



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 (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: 24' AC; 36' AC; 24' AC; 36' AC; 24' AC; 36' AC; 24' AC; 36' AC (24' AC)
- 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; (5' AC); (4'-8' GRS.); (2'-6' AC); 6'-10' GRASS; 4'-6' AC (6' GRS.); 4' AC; (4'-6' AC); 4' 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' (1–12') 2–12' (2–12') 2–12' (2–12') 2–12' 2–12' 1–12' 1–12'; 1–12' TRUCK CLIMB LANE (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): 8' CONC. S.W. (1'-4' CONC. GUTTER)

Curb and/or Gutter: Type (Right and Left): (2'-8' CONC. GUTTER); (5' CONC. GUTTER); (CONC. CURB & GUTTER)

Protective Devices: Type, Location and Number (1) METAL ON METAL (2) WOOD ON CONCRETE (3) METAL ON CONCRETE: METAL ON METAL; STONE CURB; METAL ON CONCRETE; METAL ON METAL; (STONE WALL)

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0019 01916; B71 0019 02366; B71 0019 02690

HPMS Sections AADT 2009: 7,236; 7,236; 7,236

HPMS Sections AADT 2008: 7,222; 7,222; 7,222

HPMS Sections AADT 2007: 7,375; 7,375; 7,375

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (2)

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

Previous Projects: Project No., Date and Limits

(19H-02-87M, (R), 1987) 20.35 (19GHJ-01-76M,(R),76) .03 19H-01-86M, (R), 1986 21.71 21.74 19H-01-82M, 1982 23.11 26.66 19H-01-89M, (R), 1990 27.72 27.75 19H-01-87M, (R), 1987 28.65 19GH-01-85M, (R), 1979 29.18 STP-019-2(37), RESURFACE, 1997 29.65 (19G-01-72, (R), UNIT 1, 1972)
19GHJ-01-76M, (R), 1976 21.05 PMS-0100(11), U-2, 1978 28.61 19GH-02-71, U-2, 1979 29.51 29.62 .90
19H-01-82M, 1982 21.04 21.17 19H-01-70, 1971 22.47 19H-02-82M, (R), 1982 25.69 19H-01-91M, (R), 1991 26.66 26.68 19GHJ-01-78M, (R), 1978 27.71 (TRUCK CLIMB LANE) 19G-01-72, (R), 1972
(19H-01-70, 1971) 20.39 20.50 SDR-3(16), 1951 10+00 111+11.24 23.59 27.22 SDR-3(16), 1955 29.19 F-019-2(2), 1957 (19G-01-85, 1986, TRUCK CLIMB LANE)
(SDR-3(15), 1950) 20.29 20.58 (SDR-3(3), 1948) 22.63 SDR-3(22), 1948 23.14 SDR-3(15), 1955 24.30 24.38 F-019-3(3), 1956 25.11 SDR-3(17), 1953 (165+47.44) 0+00 (69+64.00)
0+00 37+00 49+47 45+00 6+49.02 (16+79.86) (SDR-019-2(1), 1955)

SCALE: (In Miles) 2" = 1 mile

Date Released	
Feb 2006, D.B.	
Revised	
6/06	D.B.
12/09	D.B.

ROAD INVENTORY
HAWAII RTE 19
HAWAII BELT ROAD

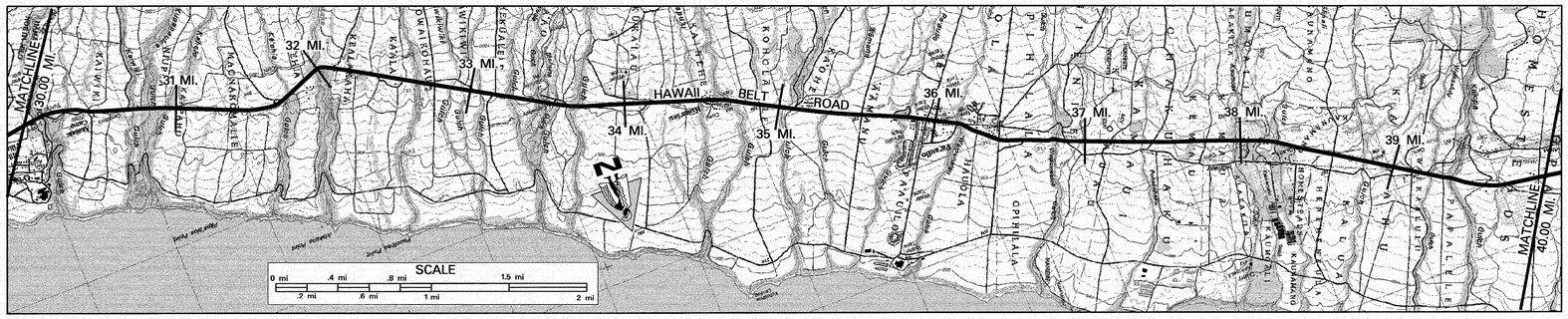
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 99.59 miles
- a. Survey Length: 99.59 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)

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

CONC. BOX GIRDER 1959, HS-20 (356') | CONC. MASONRY ARCH 1935, H-15 WIDEN IN 2006 HL-93 (353') | TEE BEAM 1935, H-15 (225') | POST TENSIONED CONC. BOX GIRDER 2009, HS-20-44 (720') | TEE BEAM 1935, H-15 (215') | (77') | STEEL MULTISTRINGER 1951, H-20 (43') | (381') | PRESTRESSED CONC. GIRDER, 1989, HS-20 - 44 (BOTH BRIDGES) (151') | (253') | TEE BEAM, 1938, H-15 (49') | PRESTRESSED CONC. GIRDER 1982, HS-20-44 (168') | PRESTRESSED T - BEAM 1981, HS-20-44 (242') | CONC. BOX GIRDER 1959, HS-20 (190') | TEE BEAM 1959, HS-20 (85') | CONC. BOX GIRDER 1959, HS-20 (331')

Structure Carrying Road — Vertical Clearance: 28' | 40' | 22' | 44' | 22' | 23' | 28' | 29' | 48' | 48' | 24' | 48' | 24' | 28' | 28' | 28'

Structure Carrying Road — Horizontal Clearance: 21' 01" | 16' 02"

Structure Over Road — Vertical Clearance: 42' | 46'

Structure Over Road — 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

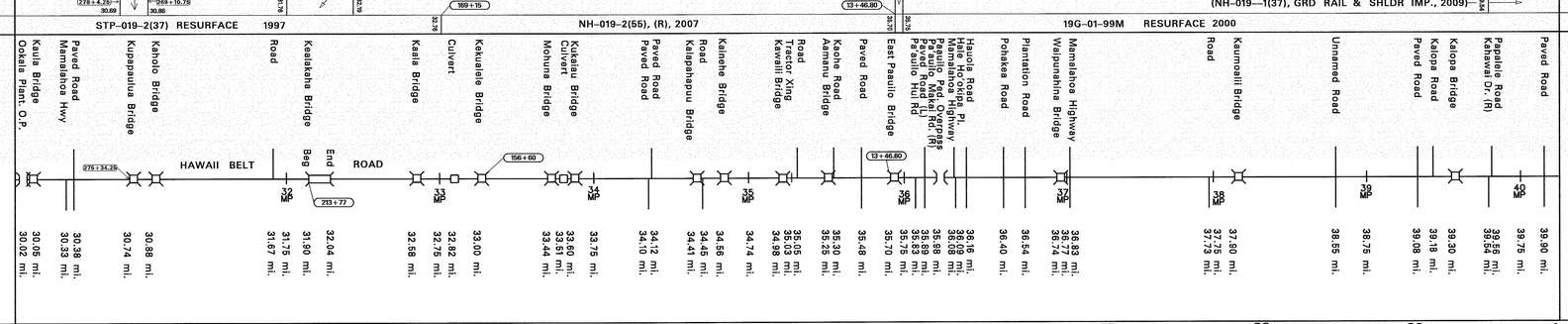
Project No., Type of Construction, and Year Constructed: BR-019-2(38), BRIDGE WIDENING, 2005 (278 + 4.29 – 269 + 10.79) | (198 + 21.50) | (BR-019-2, BR. RPLCMT., 2009) | EQ. 221 + 10/221 + 85.23 | (169 + 15) | (13 + 46.80) | (BRF-019-2(14), 1981) | (169 + 00) | (NH-019-1(37), GRD RAIL & SHLDR IMP., 2009)

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

Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP = Milepost Signage



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 | 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 (1) METAL RAIL ON METAL POST (2) WOOD RAILS ON CONCRETE POSTS

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0019 02690 | B71 0019 03530 | B71 0019 03640

HPMS Sections – AADT 2009: 7,236 | 7,236 | 7,236

HPMS Sections – AADT 2008: 7,222 | 7,222 | 7,222

HPMS Sections – AADT 2007: 7,375 | 7,375 | 7,375

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (2)

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
19GHJ-01-78M, PMS-0100(11) 1978
(19G-01-74 1974)
F-019-2(2) 1957
SDR 3(6) 1948
SDR 3(1) 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.

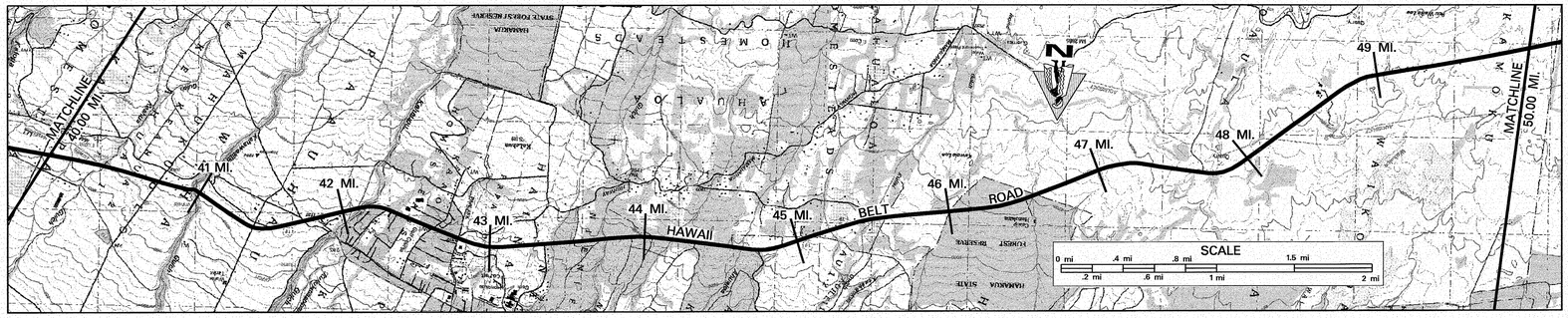
ROAD INVENTORY
HAWAII RTE 19
HAWAII BELT ROAD

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: 99.59 miles
a. Survey Length: 99.59 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
19G (12.57 MILES) | 41.96 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' | 41.96 | VARIES 100' – 180' | 42.83 | 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) 46.95
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(37), GRD RAIL & SHLDR IMP., 2009 (71+00) | 41.78 | 19F-01-97M RESURF. 1999
Project No., Type of Construction, and Year Constructed: 19G-01-99M (RESURF) 2000 | 40.73 | STP-019-1(17) RESURF. 1996 | 42.73 | STP-019-1(25) SHOULDER IMPROVEMENT 1998

Indicates Grass & / or Physical Barrier on Median.

Road Diagram
* MP = Milepost Signage

CONTINUE FROM SHEET #5

Item	Mile	Milepost
Tractor Crossing	40.10 mi.	
Culvert	40.35 mi.	
Paved Road Paved Shoulder ELEV. 1000' (L) & (R)	40.65 mi.	
	40.68 mi.	
	40.75 mi.	
	40.82 mi.	
	40.90 mi.	
Tractor Crossing Kahawaiiiiiii Bridge	41.02 mi.	
Road	41.36 mi.	40 MP
Kalopa Road	41.62 mi.	
Begin Divided	41.75 mi.	
	41.78 mi.	
Mamalahoa Street Rte 240 to Honokaa	41.89 mi.	41 MP
End Divided	42.00 mi.	
Tractor Crossing	42.01 mi.	
Kehaupu Bridge	42.24 mi.	
Opuhe Street	42.32 mi.	
Loke Street	42.58 mi.	
Pikake Street	42.74 mi.	
	42.75 mi.	
Pakalani Street (R) Mauna Loa Street (L)	42.90 mi.	42 MP
Tractor Crossing	43.20 mi.	
Begin Divided	43.31 mi.	
Plumeria Road	43.50 mi.	
End Divided	43.53 mi.	
Tractor Crossing	43.66 mi.	
Niene Bridge	43.70 mi.	
Tractor Crossing	43.77 mi.	
Tractor Crossing	43.90 mi.	43 MP
Tractor Crossing	44.68 mi.	44 MP
Paved Road	45.07 mi.	45 MP
Kapuna Road	45.55 mi.	
	45.75 mi.	46 MP
Aloha Council Scout Camp	46.68 mi.	
	46.75 mi.	47 MP
	47.74 mi.	48 MP
	48.73 mi.	49 MP
	49.74 mi.	50 MP

HAWAII BELT ROAD

CONTINUE ON SHEET #7

SCALE: (In Miles) 2" = 1 mile

40 41 42 43 44 45 46 47 48 49 50

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 | 40.34 | 40.73 | 6' – 8' AC | 41.27 | 4'–6' AC | 0 | 4'–6' AC | 42.73 | 6' AC | 0 | 6' AC

Divided Highway – Median
- **Median: Width and Type**: 41.62 | 0'– 16' PAINTED AC | 41.99 | 43.38 | 12' PAINTED AC | 43.57
- **Median Barriers:**
- **Shoulder: Width and Type**: 0 | 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 41.78 | 41.99 1–13' (L) T.L. | 43.32 | 43.46 1–12' (L) T.L.
(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: METAL ON METAL | METAL RAILS ON CONCRETE POST | M/M
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative
Vertical Curve: Crest or Sag, Curve Limits
Area and Development:
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: RURAL (1) | ROLLING | 47.20
Speed: 1–Design, 2–Posted: 55 MPH (2) | 41.68 | 41.89 | 55 MPH (MIN. 40 MPH) (2) | 55 MPH (2) | 45 MPH (2) | 43.54 | 55 MPH (MIN. 40 MPH) (2) | 42.83 | 55 MPH (MIN. 40 MPH) (2) | 55 MPH (2) | 45 MPH (MIN. 40 MPH) (2) | 55 MPH (MIN. 40 MPH) (2) | 41.59 | 47.54
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0019 03640 | B71 0019 04136 | 42.75 | B71 0019 04275 | B71 0019 04555
HPMS Sections – AADT 2009: 7,236 | 7,634 | 8,822 | 8,920
HPMS Sections – AADT 2008: 7,222 | 7,619 | 8,804 | 45.55 | 8,902
HPMS Sections – AADT 2007: 7,375 | 7,780 | 8,990 | 9,090 | 9,090 | 41.36 | 42.74 | 47.74 | 48.73
DOD Sections
Census Tracts
Functional Classification: PRINCIPLE ARTERIAL (2)
National Highway System (NHS): ON NHS (1)
Previous Projects: Project No., Date and Limits: 40.73 STP-019-1(17) RESURF. 1996 | 42.74 | STP-0100(31), GUARDRAIL IMPROVEMENT 1994 | 42.73 | 19EF-01-89M (RESURF) 1990
19G-02-88M RESURF. 40.73 | 40.77 | 41.41 | 19FG-01-81M RESURF. 1982 | 42.76 | 19F-01-76M 1978 (R) | 43.16 F-019-1(5) 1986 Inter. Impr. | 43.45
19G-01-74 1974 | SDR 3(7) 1952 & 1953 | F-019-1(1), UNIT 2 1961
F-019-2(6) 1958
F-019-1(1), UNIT 2 1961 | 41.83

SCALE: (In Miles) 2" = 1 mile

40 41 42 43 44 45 46 47 48 49 50

Date Released	
Feb 2006, D.B.	
Revised	
G.N.	4 / 06
D.B.	9/10

ROAD INVENTORY

HAWAII RTE 19

KAWAIHAE RD., MAMALAHOA HWY, HAWAII BELT ROAD, LINDSAY 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

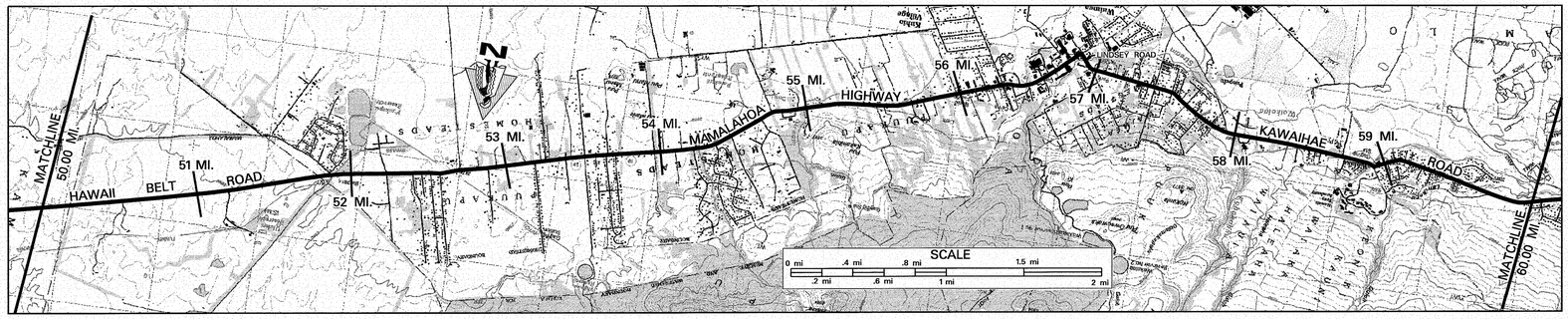
Total Route Length: 99.59 miles

a. **Survey Length:** 99.59 miles

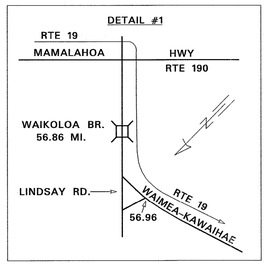
b. **Proposed Length:** 0.00 miles

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

*



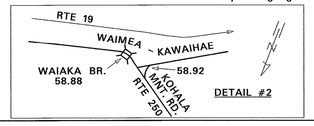
SCALE: (In Miles) 2" = 1 mile	50 · 51 · 52 · 53 · 54 · 55 · 56 · 57 · 58 · 59 · 60
Maintenance Control Sections : Length and Description	19 F (10.05 MI.) · END 19E, BEGIN 19F AT THE CENTERLINE OF MUD LANE · 51.84 · 19E (0.22) · 52.06 · BEGIN 19E AT THE END STATE HWY SIGN · COUNTY · 57.90 · END 19D AT THE END OF STATE HWY SIGN · 19D (8.92 MILES)
Structure Carrying Road — Bridges (Over 20'): Length, Type, Capacity and Year Constructed	36' SLAB 1968 HS-20 · 38' SLAB 1932 H-15
Structure Carrying Road — Vertical Clearance	
Structure Carrying Road — Horizontal Clearance	44' · 24'
Structure Over Road — Vertical Clearance	
Structure Over Road — Horizontal Clearance	
Right of Way Width (min.–max.) if varies	80' VARIES TO 185' · 57.74 · 60'
Available Right of Way Width (Needs Study)	CLEAR 1000' GRASS AND SMALL TREES · 53.10 · RESIDENTIAL AREA · 59.51 · 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 · 52.09 · COUNTY · STP-0100(42) COUNTY RESURF IMPR 2000 · 57.90 · (829+50) STATE (779+80) · (504+71.30)
Project No., Type of Construction, and Year Constructed	19F-01-97M (RESURF) 1999 · 52.10 · 56.17 · STP-019-1(24) RESURF IMPR · (–) 56.84 · 56.99 · RS-0250(05) COUNTY (RESURF) · 19D-01-06M, RESURF, 2008 · 58.84 · 58.93 · NH-019-1(34), (R), IMPV., 2007
Project No., Type of Construction, and Year Constructed	STP-019-1(25) 1998 SHLDR IMPR · 50.56 · 19EF-01-89M (RESURF) 1990 · 52.07 · WDR 2(1) 1947 · (SEE ALSO RTE 190) 2000 · 56.81 · (+) · 1986 · 19D-01-91M (RESURF) 1992 · 58.80 · 19D-01-96M RESURF 1998



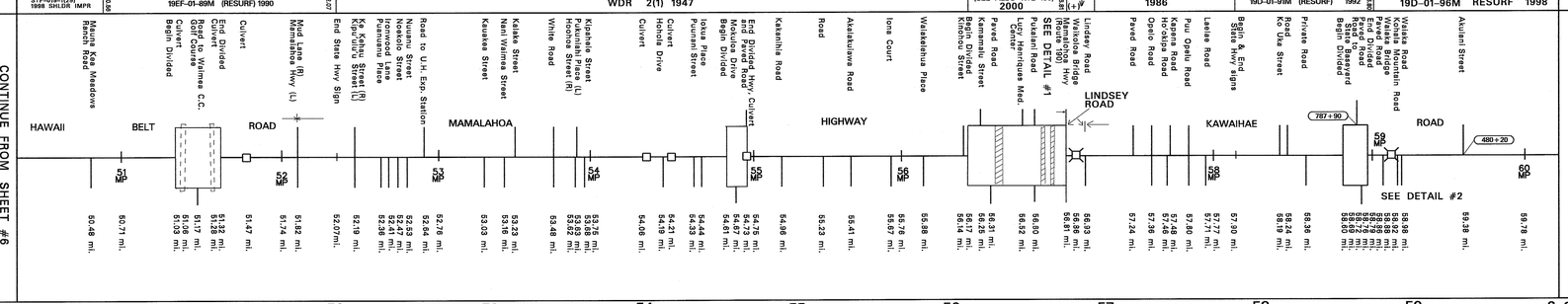
▨ Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP=Milepost Signage



CONTINUE FROM SHEET #6



CONTINUE ON SHEET #8

SCALE: (In Miles) 2" = 1 mile	50 · 51 · 52 · 53 · 54 · 55 · 56 · 57 · 58 · 59 · 60
Undivided — Shoulder: Width and Type	6' AC · 52.17 · 12' – 24' GRASS · 55.96 · 10' AC · 10'–20' GRASS · 56.18 · 8' AC · 56.35 · 0 · 56.95 · ←10' AC · 6' AC · 57.90 · 4'–6' AC · 58.94 · 5' AC · 59.39 · 4' AC · 59.68 · 10' AC
Undivided — Pavement: Width and Type	24' AC · 12' AC · 24' AC · 22' AC · 52.32 · 20' AC · 10' AC · 20' AC · 56.01 · 56.02 · 56.09 · 11' AC · 56.54 · 22' AC · 2' AC · 20' AC · 56.99 · 24' AC · 22' AC · 11' AC · 22' AC · 20' AC
Undivided — Shoulder: Width and Type	6' AC · 0 · 6' AC · 7' – 15' GRASS · 53.29 · 53.38 · 4' – 10' GRASS · 54.33 · 4'–6' DIRT · 54.51 · 0 · 12'–24' GRASS · 55.96 · 0 · 2' AC · 0 · 0 · 56.73 · 0 · 56.93 · ←10' AC · 6' AC · 57.62 · 4' AC · 4'–6' AC · 0 · 4'–6' AC · 5' AC · 59.39 · 4' AC · 59.68 · 10' AC
Divided Highway — Median: Width and Type	51.03 · 0'– 12' PAINTED AC · 51.32 · 4'–10' DIRT · 12' – 24' GRASS · 54.61 · 10' PAINT · 54.73 · 12' AC · 11' DIRT · 4' AC · 56.17 · 0'–12' AC PAINT · 56.43 · 8'–10' CONC · 56.48 · 12' AC PAINT · 56.66 · 8'–10' RAISED CONC · 56.81 · 12' PAINTED AC · 58.60 · 0–10' AC · 58.76
Median Barriers:	
Divided — Shoulder: Width and Type	0 · 0 · 0 · 2' AC · 0 · 2' AC · 0 · 0 · 0
Divided — Pavement: Width and Type	12' AC · 10' AC · 11' AC · 22' AC · 56.54 · 24' AC · 56.64 · 22' AC · 11' AC · 11' AC
Divided — Shoulder: Width and Type	6' AC · 4'–8' AC · 56.18 · 8' AC · 56.56 · 0 · 56.75 · 4'–6' AC
Number of Traffic Lanes	2 – 12' · 52.17 · 2–11' · 52.32 · 2 – 10' · 2–11' · 1–11' 2–11' · 2–11' +1–11' +1–13' · 4–11' · 2–11' 1–11' · 2–10' · 56.99 · 2–12' · 57.90 · 2–11' · 58.94 · 2–10'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	14' ACCEL LN. 51.12 · 51.22 14' T.L. · 56.54 · 56.64 · 58.64 · 58.69
(Right Side)	51.17 · 10' TL
Frontage Road: No. of Lanes, and Width (Right and Left)	
Sidewalk: Width and Type (Right and Left)	56.69 · 56.81 · 56.91 · 56.35 · 4' · 8' · 56.95 · 6' · 5' · 8' · CONCRETE SIDEWALKS
Curb and/or Gutter: Type (Right and Left)	2' · 2' · 2' P.C. CONC GUTTER WITH P.C. CONC CURB
Protective Devices: Type, Location and Number	50.35 · 50.38 · 50.49 · 50.53 · 50.60 · 50.83 · 50.85 · 50.93 · 50.94 · 51.22 · 51.44 · 51.51 · 51.69 · 51.73 · METAL RAILS ON METAL POSTS · 55.52 · 55.56 · 56.57 · 58.84 · 58.91 · 59.36 · 59.39 · 59.42 · 59.49
Illumination: Type, Location and Number	54.85 · 17 MV IN 2.85 MILES · 57.70
Curves: Degree of Curvature (Right and Left)	
Superelevation (Range)	
Grades: % Grade, Positive or Negative	
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	RURAL (1) · 51.82 · SMALL URBAN (2)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	ROLLING · 51.93 · 52.05 · ROLLING / FLAT · 58.50 · ROLLING · 58.77 · 59.72
Speed: 1–Design, 2–Posted	45 MPH (MIN 40 MPH) (2) · 55 MPH (MIN 40 MPH) (2) · 52.08 · 45 MPH (2) · 55.73 · 35 MPH (2) · 58.75 · 25 MPH (2) · 59.04 · 35 MPH (2) · 59.73 · 45 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	56.26 · 2 PHASE TRAFFIC LIGHT
Traffic Stations (Current Year)	B71 0019 04555 · B71 0019 05182 · B71 0019 05209 · B71 0019 05652 · B71 0019 05681 · 57.90 · B71 0019 05790 · B71 0019 05892
HPMS Sections – AADT 2009	8,920 · 12,500 · 52.09 · 14,866 · 12,300 · 11,200 · 14,866 · 9,218
HPMS Sections – AADT 2008	8,902 · 8,902 · 14,836 · 19,884 · 17,706 · 14,836 · 9,200
HPMS Sections – AADT 2007	9,090 · 52.07 · 15,150 · 16,770 · 20,305 · 18,080 · 15,150 · 9,395
DOD Sections	51.82 · 55.67 · 56.52 · 56.81 · 57.88 · 58.92
Census Tracts	
Functional Classification	PRINCIPAL ARTERIAL (2) · 51.82 · PRINCIPAL ARTERIAL (14)
National Highway System (NHS)	ON NHS (1) · HES-0100(28) PHASE 2 SAFETY IMPRV 1987
Previous Projects: Project No., Date and Limits	19EF-01-89M RESURF 1990 · 52.07 · 59.43 · 59.53 · 59.99 · (19D-01-90M (R) 1991)
	50.10 · 19F-02-78 SHLDR STABILIZATION · 57.90 · 19D-01-91M (R) 1992 · 58.82 · 19D-01-82M 1982
	19F-01-78M RESURF 1978 · WDR 2(1) 1947 · 56.27 · 56.53 · WDR 2(1) 1947 · 56.83 · RS-0250(05) COUNTY RESURFACE 1986 · 19D-01-72 (R) 1972 · 59.65
	F-019-1(1), UNIT 2 1961 · 52.05 · ← (390+00) · HES-0100(26) CURVE IMPRV. COUNTY 1986 · 56.84 · WDRC 12(1) 1947 · 57.91 · FAP E-11A 1933 · 58.93 · NRH 11C 1933
	(829+50.00) · (1+77.90) · (504+77.30)
SCALE: (In Miles) 2" = 1 mile	50 · 51 · 52 · 53 · 54 · 55 · 56 · 57 · 58 · 59 · 60

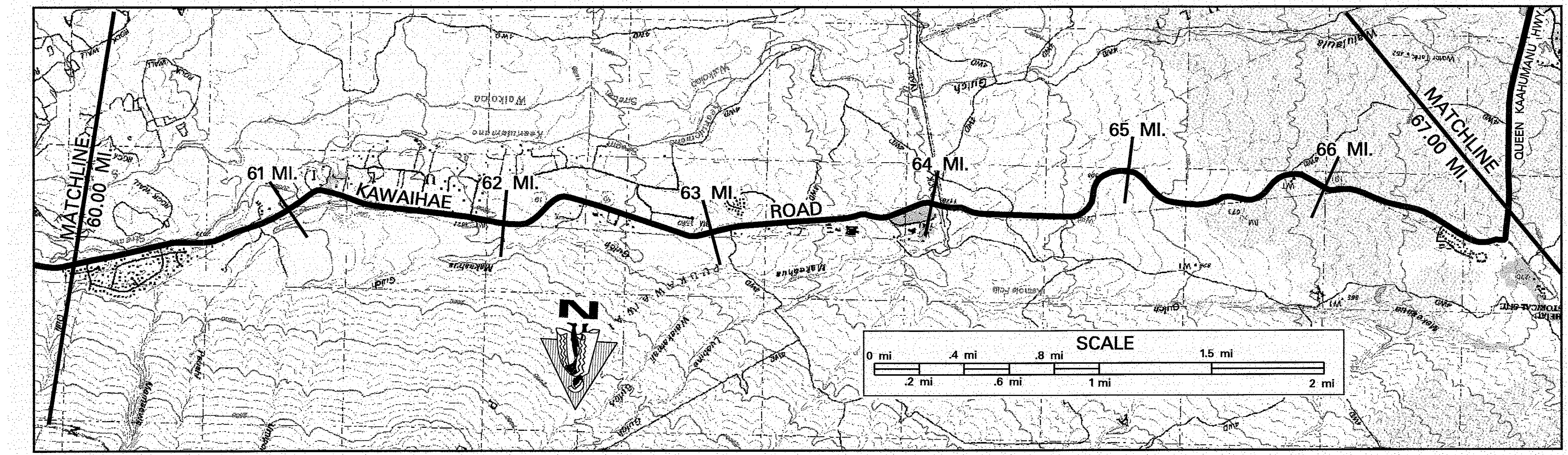
Date Released	
Feb 2006, D.B.	
Revised	
G.N.	4 / 06
D.B.	*1/08*
D.B.	*4/09*
D.B.	*9/10*

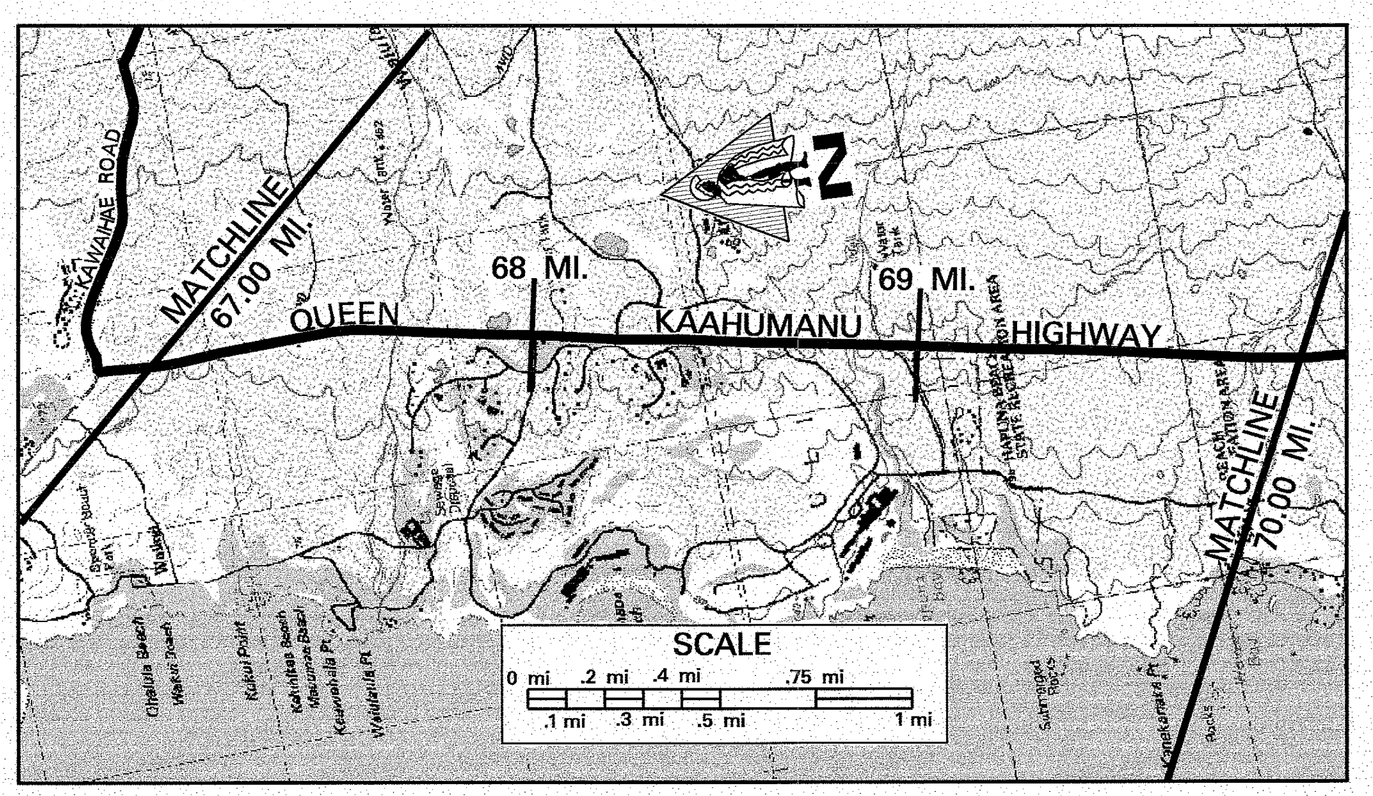
ROAD INVENTORY
HAWAII RTE 19
QUEEN KAAHUMANU HWY, KAWAIHAE RD.

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: 99.59 miles
a. Survey Length: 99.59 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles
•





SCALE: (In Miles) 2" = 1 mile — 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70

Maintenance Control Sections : Length and Description — 19D (8.92 MILES); END 19C – BEGIN 19D ON QUEEN KAAHUMANU HWY AT CENTERLINE OF KAWAIHAE–MAHUKONA ROAD → 66.82; 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'; 66.63; 80' – 145'; 68.63; 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) 69.65 →

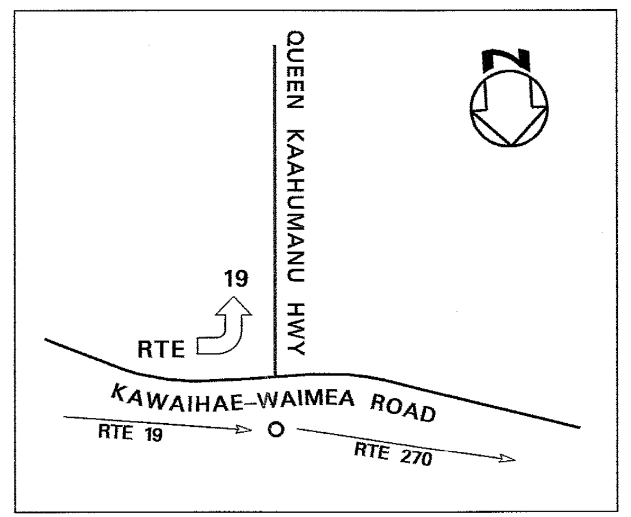
Right of Way Fence: Type – Right and Left — WIRE ON WOOD 20' FROM EDGE OF PAVEMENT 62.16; WIRE ON WOOD 20' FROM EDGE OF PAVEMENT 61.87

Control of Access: 1–None, 2–Partial, 3–Full — N O N E; (89+70); (19C–01–94M, 1994 SHLDR IMPROV)

Jurisdiction, Transfer Phase No. and Date (C to S or S to C) — S T A T E; (143+00); (19D–01–72 (R) 1972); (91+33); 66.82; COUNTY TO STATE, PHASE 2; 68.75; (1505+00) STATE

Project No., Type of Construction, and Year Constructed — NH–019–1(34), RESURFACE, IMPV., 2007; 65.79; NH–019–1(29), GUARDRAIL & SHLDR. IMPR., 2006 → 66.77; 66.79 ← (19C–01–76M RESURF 1977); NH–019–1(28), GUARDRAIL & SHOULDER IMPRV., 2006; 68.98; NH–019–1(33), RESURF., 2005

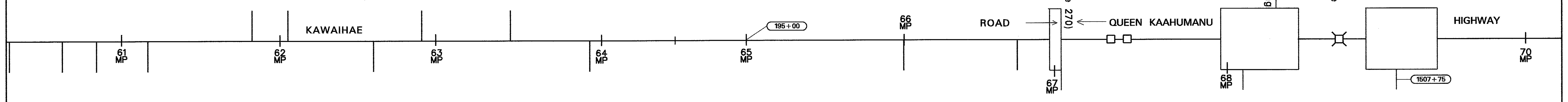
Project No., Type of Construction, and Year Constructed — 19D–01–96M RESURFACE 1998; 63.14; 19CD–01–97M RESURFACE 1999; (143+50) 65.77; 65.86; 19D–01–90M RESURF 1991; 66.82; 19C–01–78 1978 SHLDR. STAB.; 67.58; 67.62; 19C–01–78 1978 SHLDR. STAB.; 68.72; 69.10; NH–019–1(31) GUARDRAIL & SHLDR IMPR 2004



DETAIL

Road Diagram
* MP=Milepost Signage

CONTINUE FROM SHEET #7



60.02 mi.
60.36 mi.
60.58 mi.
60.75 mi.
60.91 mi.
61.58 mi.
61.77 mi.
61.81 mi.
62.36 mi.
62.67 mi.
62.77 mi.
63.24 mi.
63.75 mi.
63.83 mi.
64.30 mi.
64.77 mi.
65.77 mi.
66.50 mi.
66.71 mi.
66.76 mi.
66.79 mi.
67.10 mi.
67.21 mi.
67.81 mi.
67.85 mi.
67.95 mi.
68.16 mi.
68.31 mi.
68.57 mi.
68.74 mi.
68.93 mi.
69.20 mi.
69.77 mi.

CONTINUE ON SHEET #9

SCALE: (In Miles) 2" = 1 mile — 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70

Undivided
- **Shoulder: Width and Type** — 4' AC; 10' AC; 61.00; 4' AC; 61.48; 10' AC; 61.76; 4' AC; 62.70; 10' AC; 62.81; 4' AC; 63.19; 10' AC; 63.44; 4' AC; 64.24; 10' AC; 64.50; 4' AC; 65.84; 2' AC; 8' AC; 1' AC; 66.09; 4'–10' AC; 66.77; 12' AC; 66.90; 4' AC; 66.97; 12' AC; 67.27; 4' AC; 67.40; 12' AC; 67.65; 4' AC; 12' AC; 68.13; (10' GRV); 12' AC; 68.29; 6' AC; 68.53; 12' AC; 68.81; (6' AC/4' SEAL COAT); 68.93; 12' AC; 69.08; 6' AC/4' SEAL COAT; 69.73; 12' AC; 69.96; (6' AC/4' SEAL COAT)
- **Pavement: Width and Type** — 20' AC; 63.11; 22' AC; 63.45; 24' AC; 22' AC; 64.56; 24' AC; 65.91; 65.98; 22' AC; 12' AC; 24' AC; 12' AC; 68.18; 24' AC; 12' AC; 24' AC
- **Shoulder: Width and Type** — 4' AC; 10' AC; 61.00; 4' AC; 61.48; 10' AC; 61.76; 4' AC; 62.70; 10' AC; 62.81; 4' AC; 63.19; 10'–12' AC; 4' AC; 64.24; 10' AC; 64.50; 4' AC; 4' – 10' AC; 0; 12' AC; 67.29; 4' AC; 67.39; 12' AC; 67.65; 4' AC; 67.80; (12' AC) 0; 6' AC/4' SEAL COAT; 68.70; (12' AC) 0; 6' AC/4' SEAL COAT; 69.72; 12' AC; 69.99; (6' AC/4' SEAL COAT)

Divided Highway
- **Median: Width and Type** — 66.71; 10' PAINT; 66.79; 67.81; 0 – 11' PAINTED MEDIAN; 68.31; 68.74; 0 – 11' PAINTED MEDIAN; 69.20
- **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; 67.94; 10' GRV; 68.05; 12' AC; 68.26; (10' GRV); 12' AC; 68.93; 6' AC/4' SEAL COAT

Number of Traffic Lanes — 2 – 10'; 63.11; 2 – 11'; 63.46; 2 – 12'; 64.30; 2 – 11'; 64.56; 2 – 12'; 65.84; 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) — 61.28 BITUMINOUS CURB

Curb and/or Gutter: Type (Right and Left) — 60.09; 60.15; 60.34; 60.71; 61.07; 61.42; 61.90; 62.33; 62.44; 62.50; 62.66; 63.09; 63.16; 63.60; 63.74; 64.17; 64.54; 64.70; 64.74; 64.84; 64.93; 65.08; 65.20; 65.26; 65.53; 65.78; (ALL GUARDRAILS M/M); 65.86; 65.91; 66.08; 66.21; 66.24; 66.62; 66.77; 66.90; 66.97; 67.27; 67.40; 67.81; 68.13; 68.18; 68.29; 68.53; 68.81; 68.93; 69.08; 69.73; 69.96; M/M

Protective Devices: Type, Location and Number — ALL METAL ON METAL UNLESS INDICATED — 60.11; 60.16; 60.52; 60.65; 61.04; 61.23; 61.31; 61.41; 61.89; 61.97; 62.28; 62.48; 62.60; 62.67; 63.10; 63.14; 63.48; 63.90; 63.98; 64.19; 64.58; 64.84; 64.94; 65.35; 65.39; 65.75; 65.85; 65.90; 66.04; 66.21; 66.24; 66.30; 66.39; 66.45; 66.79; 67.29; 67.39; 67.65; 67.80; 67.94; 68.05; 68.26; 68.53; 68.62; 68.70; 68.94; 69.72; M/M; 69.99

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: — ← (SMALL URBAN (2)) 60.36; RURAL (1); 66.79; SMALL URBAN (2)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous — R O L L I N G

Speed: 1–Design, 2–Posted — 45 MPH (2); 66.77; 66.99; 55 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year) — B71 0019 05892; B71 0019 06036; B71 0019 06679

HPMS Sections – AADT 2009 — 9,218; 8,822; 11,697

HPMS Sections – AADT 2008 — 9,200; 8,804; 11,673

HPMS Sections – AADT 2007 — (9,395) →; 8,990; 8,990; 11,920

DOD Sections — 60.02; 60.36; 66.79

Census Tracts

Functional Classification — ← (PRINCIPLE ARTERIAL (14)) 60.36; PRINCIPLE ARTERIAL (2); 66.79; PRINCIPLE ARTERIAL (14)

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

Previous Projects: Project No., Date and Limits
- 68.72 19C–01–94M 1994 SHLDR IMPROV
- (19D–01–90M RESURF 1991); 63.45; 64.30; 64.61; 65.05; 65.84; 66.77 NH–019–1(28), GUARDRAIL & SHOULDER IMPRV., 2006; 69.10 (1499+00); 69.27
- (19D–01–90M (R) 1991); 63.11; (HES–0100(28) PHASE 2 SAFETY IMPROV 1987); 19CD–01–97M RESURFACE 1999; (NH–019–1(31) GUARDRAIL & SHLDR IMPR 2004)
- (19D–01–90M (R) 1991) → 60.30; 60.66; 61.04; 61.27 19D–01–90M (R) 1991 61.87; 62.37 19D–01–90M (R) 1991 63.45
- 60.39; 60.75; 61.08; 61.30; 61.91; 62.35 (HES–0100(27), PH 1, 1986 SAFETY IMP.); 64.56; 65.05 (HES–0100(27), PH 1, 1986 SAFETY IMP.); 66.83 19C–01–76M RESURF 1977 68.75
- (19D–01–82M, 1982) → 60.26 (HES–0100(28), PH 2 SAFETY, 1987) (HES–0100(27), PH 1, 1986 SAFETY IMP.); 19D–01–72 RESURFACE 1972; 68.53 19BC–01–71, 1974 GRADING, 1975 PAVING
- NRH–11C 1933; 63.11 (285+00); FAP 11–8 1933; (90+15) 66.82 (5+57.45); G–3257–01–60 1962

SCALE: (In Miles) 2" = 1 mile — 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70

Date Released	
Feb 2006, D.B.	
Revised	
G.N.	4 / 06
D.B.	*1/07*
D.B.	*2/08*
D.B.	*9/10*

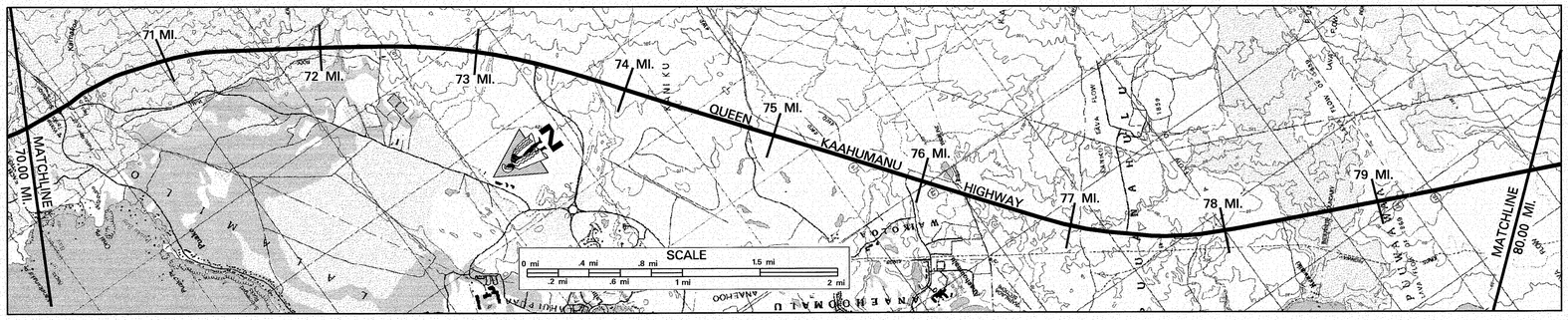
ROAD INVENTORY
HAWAII RTE 19
QUEEN KAAHUMANU HWY.

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: 99.59 miles
- a. Survey Length: 99.59 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)

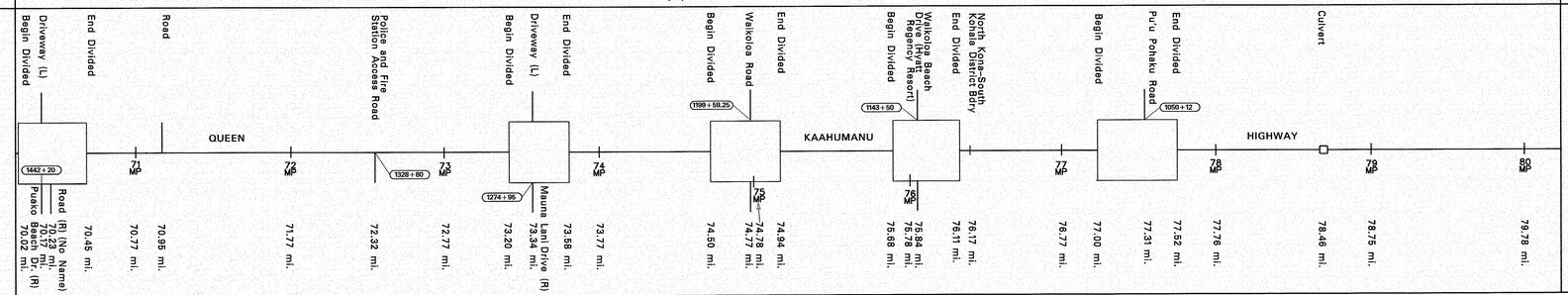
Structure Carrying Road — Bridges (Over 20'): Length, Type, Capacity and Year Constructed
Structure Carrying Road — Vertical Clearance
Structure Carrying Road — Horizontal Clearance
Structure Over Road — Vertical Clearance
Structure Over Road — Horizontal Clearance

Right of Way Width (min.–max.) if varies	340' – 420' (76.06) 310' – 390'
Available Right of Way Width (Needs Study)	CLEAR 1000' – GRASS, BUSHES AND LAVA ROCK 8' – 10' FROM EDGE OF PAVEMENT (CLEAR 1000' – LAVA ROCK 8'–10' FROM EDGE OF PAVEMENT) (79.88)
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	NH–019–1(33), RESURFACING, 2005
Project No., Type of Construction, and Year Constructed	NH–019–1(31) 2004 GUARDRAIL AND SHOULDER IMPROVEMENT

Indicates Grass & / or Physical Barrier on Median.

Road Diagram

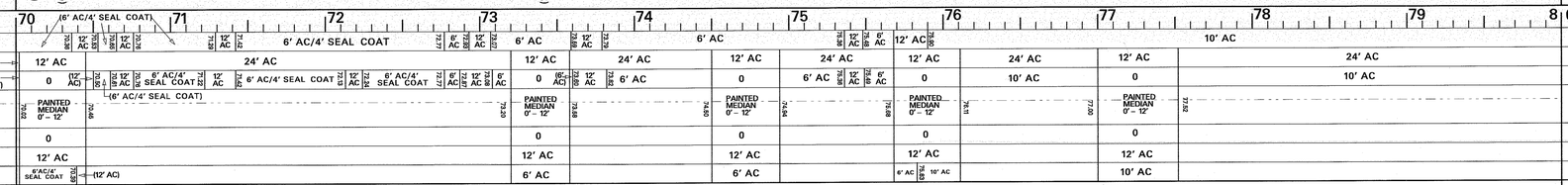
* MP = Milepost Signage



SCALE: (In Miles) 2" = 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	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 (M/M – METAL RAILS ON METAL POST; M/C – METAL RAILS ON CONC. POST)	NONE
Illumination: Type, Location and Number	
Curves: Degree of Curvature (Right and Left)	
Superelevation (Range)	
Grades: % Grade, Positive or Negative	
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	SMALL URBAN (2)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	ROLLING (2)
Speed: 1–Design, 2–Posted	55 MPH (2); 45 MPH (1); 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	3 PHASE; 3 PHASE; 3 PHASE
Traffic Stations (Current Year)	B71 0019 06679 11,696 11,673 11,920; B71 0019 07334 11,696 11,673 11,920; B71 0019 07477 14,272 14,244 14,545; B71 0019 07584 14,272 14,244; B71 0019 07731 11,800 14,244 14,545
HPMS Sections – AADT 2009	
HPMS Sections – AADT 2008	
HPMS Sections – AADT 2007	
DOD Sections	
Census Tracts	
Functional Classification	PRINCIPAL ARTERIAL (14)
National Highway System (NHS)	ON NHS (1)
Previous Projects: Project No., Date and Limits	19C–01–94M 1994 SHOULDER IMPROVEMENT; 19C–01–91M 1992 SHOULDER IMPROVEMENT; STP–019–1(23) 1997 SHOULDER IMPROVEMENT; 19BC–01–71 PHASE IIIA 1975 PAVING; 19BC–01–71 (PHASE III B) (GRADING 1974 AND PAVING 1975); G–3257–01–60 1962; 19 BC–01–71 (PHASE IIIA) (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

ROAD INVENTORY
HAWAII RTE 19
QUEEN KAAHUMANU HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
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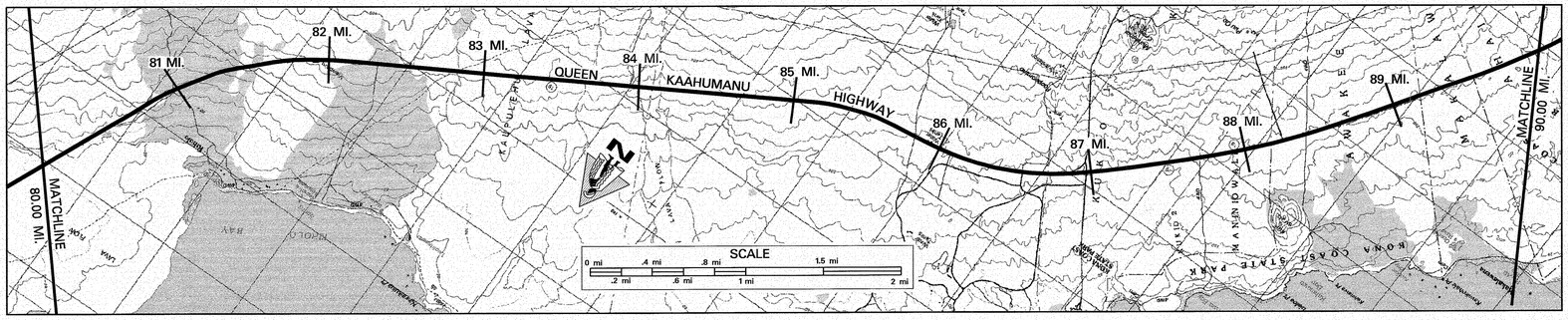
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 99.59 miles
- a. Survey Length: 99.59 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*



SCALE: (In Miles) 2" = 1 mile

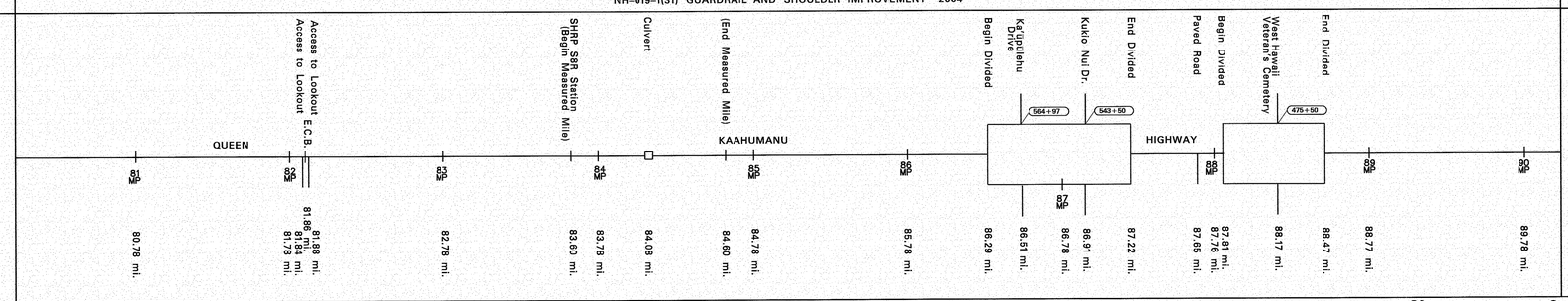
Maintenance Control Sections : Length and Description: 19C (15.04 MILES); END 19B – BEG 19C AT KIHOLO LOOKOUT (81.00); 19B (15.49 MILES)

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: 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: 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: NH–019–1(33), RESURFACE, 2005
Project No., Type of Construction, and Year Constructed: NH–019–1(31) GUARDRAIL AND SHOULDER IMPROVEMENT 2004

Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided:
- Shoulder: Width and Type: 10' AC
- Pavement: Width and Type: 24' AC
- Shoulder: Width and Type: 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'
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 M/M = METAL RAILS ON METAL POST
Illumination: Type, Location and Number
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: SMALL URBAN (2)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: R O L L I N G (2)
Speed: 1–Design, 2–Posted: 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0019 07731; B71 0019 08691
HPMS Sections – AADT 2009: 11,800; 14,272
HPMS Sections – AADT 2008: 14,244; 14,244
HPMS Sections – AADT 2007: 14,545; 14,545; 14,545
DOD Sections
Census Tracts
Functional Classification: PRINCIPAL ARTERIAL (14)
National Highway System (NHS): ON NHS (1)
Previous Projects: Project No., Date and Limits: 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

ROAD INVENTORY
HAWAII RTE 19
QUEEN KAAHUMANU HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
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PREPARED BY THE
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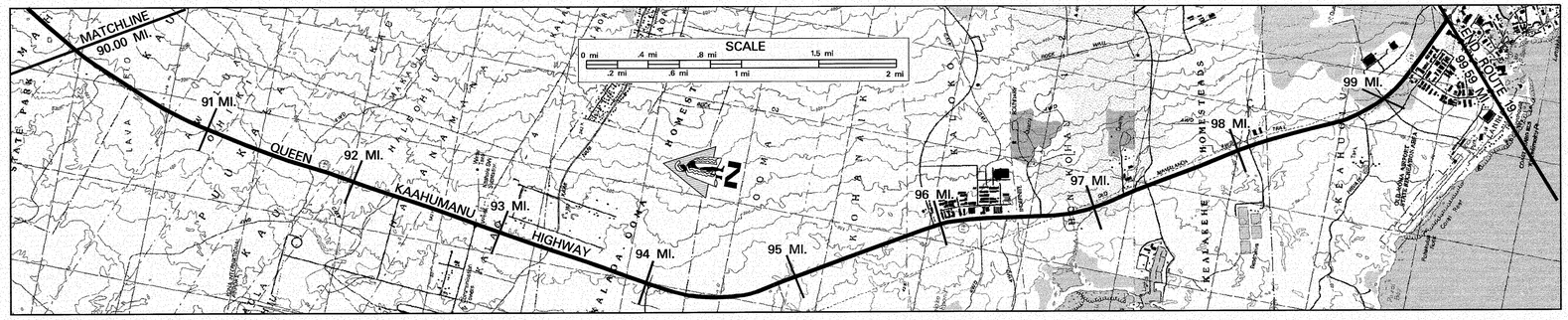
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 99.59 miles
- a. Survey Length: 99.59 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*



SCALE: (In Miles) 2" = 1 mile

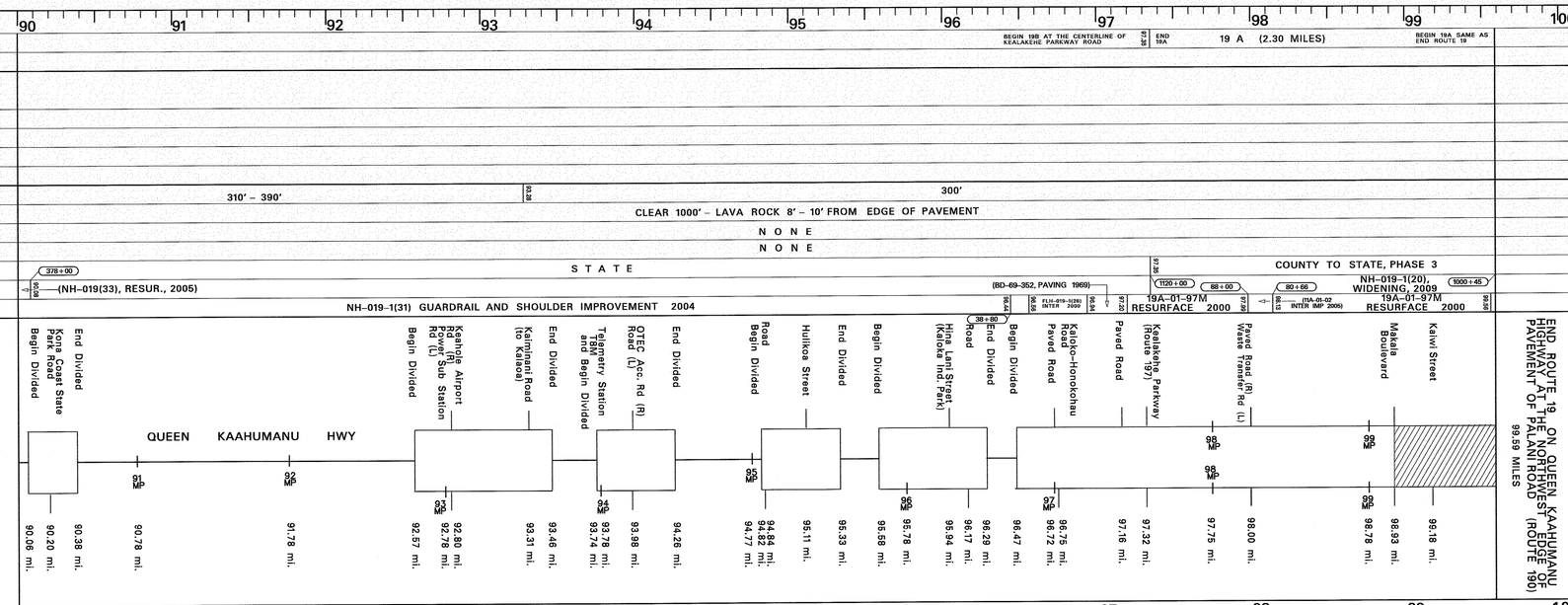
Maintenance Control Sections : Length and Description

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	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.

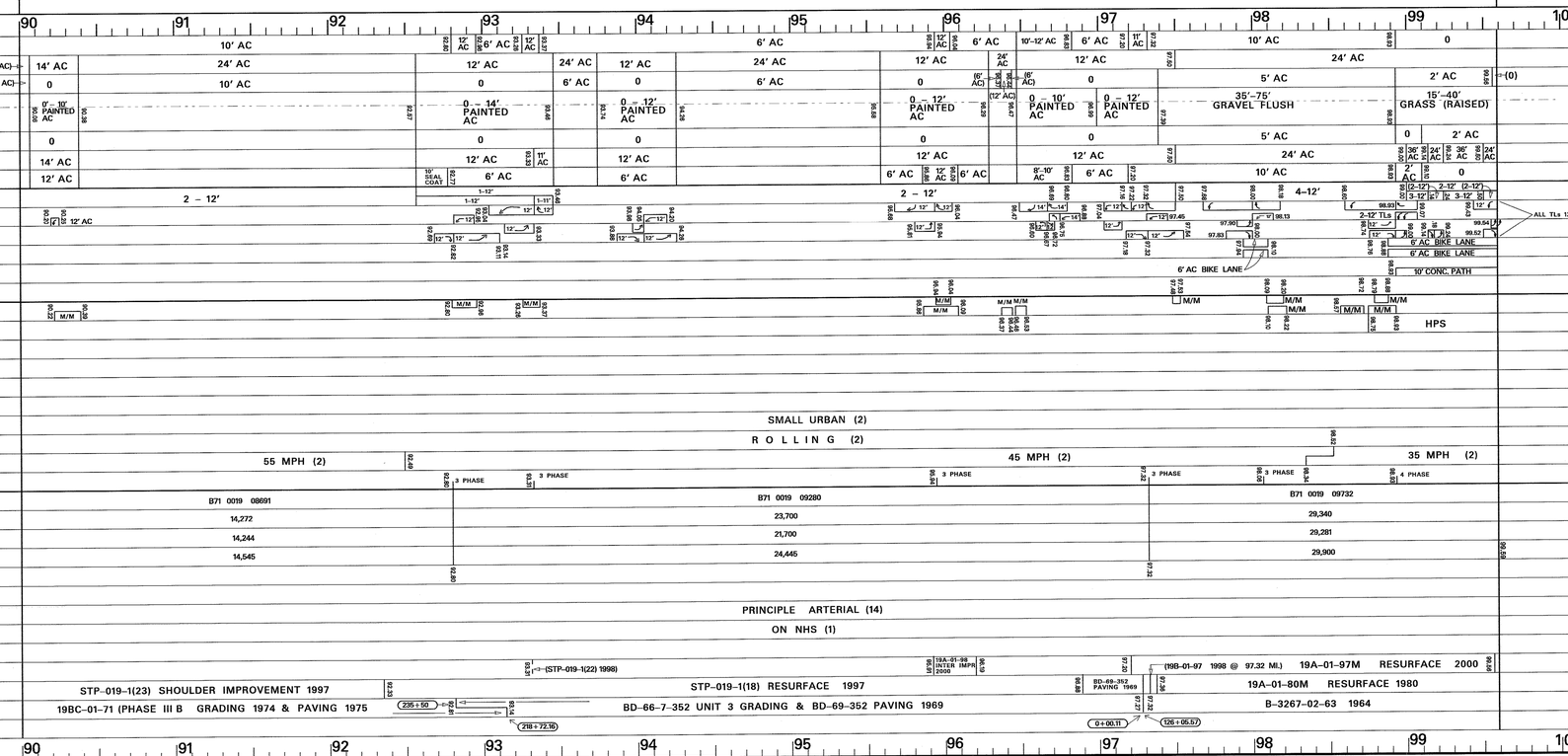
Road Diagram

* MP = Milepost Signage



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	M/M – METAL RAILS ON METAL POST
Illumination: Type, Location and Number	
Curves: Degree of Curvature (Right and Left)	
Superelevation (Range)	
Grades: % Grade, Positive or Negative	
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 2009	
HPMS Sections – AADT 2008	
HPMS Sections – AADT 2007	
DOD Sections	
Census Tracts	
Functional Classification	
National Highway System (NHS)	
Previous Projects: Project No., Date and Limits	



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

ROAD INVENTORY

HAWAII RTE. 130
KEA'AU–PAHOA RD.

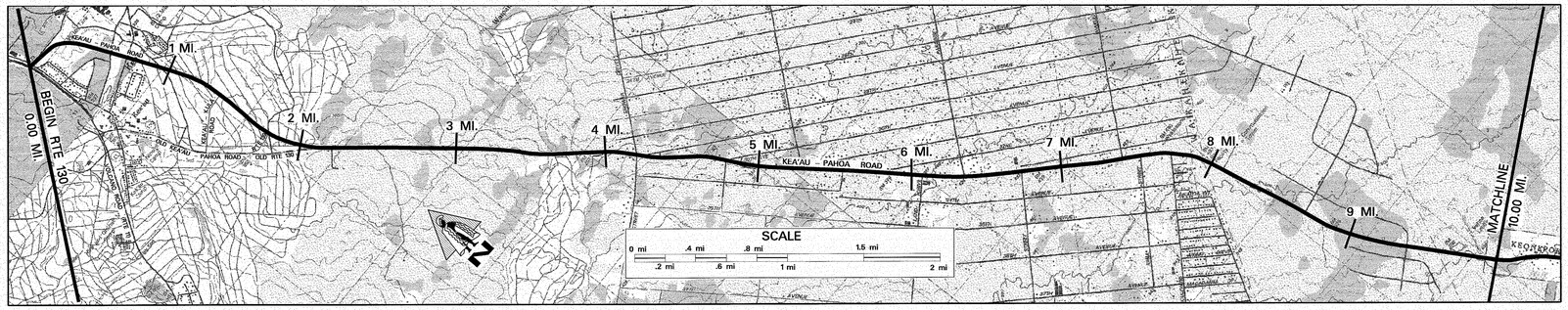
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Designated Route Length: 25.32 MILES (a+b)
a. Existing Length: 25.32 MILES
b. Proposed Length: 0.00 MILES
Total Travel Way Length: 21.83 MILES (a+b, less c)
a. Existing Length: 21.83 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 ______

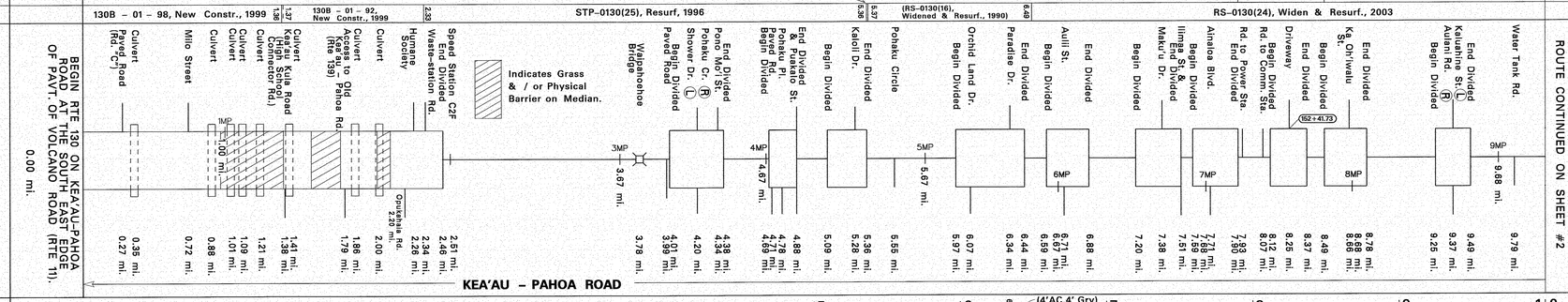


SCALE: (In Miles) 2" = 1 mile

Item	Entries (milepoints along route, 0 to 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' (0.35); 4 – 70" Pipe Culvert 28' (0.88); 4 – 44" Arch Culvert 30' (1.09); Triple Box Culvert 38' (1.86); Conc. Rigid Frame HS – 20, 1968 80' (3.78)
Structure Carrying Road – Vertical Clearance	
Structure Carrying Road – Horizontal Clearance	40' (3.78)
Structure Over Road – Vertical Clearance	
Structure Over Road – 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
Project No., Type of Construction, and Year Constructed	(S–0130(7) 1967) → 5.36; (130B–01–07 ACCESS IMP., 2009) (134+11.34) 7.90 → (165+00) 8.49
Project No., Type of Construction, and Year Constructed	130B – 01 – 98, New Constr., 1999; 1.36; 1.37; 130B – 01 – 92, New Constr., 1999; 2.33; STP–0130(25), Resurf, 1996; 5.36; 5.37; (RS–0130(16), Widened & Resurf., 1990); 6.49; RS–0130(24), Widen & Resurf., 2003

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Item	Entries (milepoints along route, 0 to 10)
Undivided Highway – Shoulder: Width and Type	10' AC; 8' AC; 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; 8' AC; 6' AC; 9.87 ← (8' Gravel)
Undivided Highway – Pavement: Width and Type	(12'AC) → 0.04; 24' AC; 2.15 12' AC; 24' AC; 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
Undivided Highway – Shoulder: Width and Type	4' AC; (10' Paint); (12' Paint); 10' AC; 0; 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' Gravel)
Divided Highway – Median: Width and Type	10' Painted AC; 0.94; 10' Grass (Flush); 1.37; 1.56 (12' Grass); 1.76; 2.01 (12' Grass); 2.10; Varies 0–22' Paint; 2.46; 4.01; 0'–12' Painted AC; 4.38; 4.69; 0'–12' Paint on AC; 4.88; 5.09; 0'–12' Painted AC; 5.36; 5.97; 0'–12' Painted AC; 6.44; 6.59; 0'–18' Painted AC; 6.88; 7.20; 0'–18' Painted AC; 7.51; 7.59; 0'–18' Painted AC; 7.90; 8.12; 0'–18' Painted AC; 8.37; 8.49; 0'–18' Painted AC; 8.78; 9.25; 0'–18' Painted AC; 9.49
Divided Highway – Shoulder: Width and Type	4' AC; 0; 0; 0; 0; 0; 0; 0; 0; 0
Divided Highway – Pavement: Width and Type	24' AC; 2.04 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
Divided Highway – Shoulder: Width and Type	0.04; 10' AC; 2.04; 8'–12' AC; 8'–12' AC; 8'–10' AC; 6'–10' AC; 6.39; 6' AC; 6' AC; 6' AC; 8' AC; 6' AC; 6' AC
Number of Traffic Lanes	(1–12') (2–12') →; 0.13; 0.28; 0.41; 0.50; 0.72; 0.87; 4 – 12'; (2–12') (1–12') →; 2.15; 2 – 12'; 2–14'; 6.71; 2 – 12'; 7.38; 9.87 ← (2 – 12')
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	All Turning Lanes 12'; 0.15; 1.38; 1.61; 1.79; 2.05; 2.16; 2.28; 2.34; 2.37; 4.08; 4.20; 12' T. Lns; 4.74; 4.78; 4.83; 5.16; 5.28; 5.31; 6.07; 6.20; 6.34; 6.46; 6.66; 6.82; 7.20; 7.51; 7.66; 7.83; 8.25; 8.30; 8.66; 9.37; 9.42
(Right Side)	0.14; 0.28; 0.47; 0.59; 0.72; 1.23; 1.38; 1.54; 1.68; 1.79; 1.87; 2.20; 2.22; 2.26; 4.32; 5.95; 6.07; 6.23; 6.34; 6.59; 6.71; 7.27; 7.43; 7.71 (All T.Ls. 12'); 8.19; 8.55; 8.71; 9.32
Frontage Road: No. of Lanes, and Width (Right and Left)	7.38
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; 0.46; 0.55; 0.66; 0.81; 0.85; 1.27; 1.68; 1.89; 1.94; 2.10; 0.19; 0.30; 0.38; 0.46; 0.54; 0.66; 0.77; 0.84; 1.24; 1.73; 1.88; 1.93; 2.07; Metal on Concrete; 3.66; 3.71; 3.82; 3.85; 3.87; 4.26; 4.32; 5.68; 5.71; 6.32; 6.35; 6.50; 8.07; 8.25; 8.15; 8.19
Illumination: Type, Location and Number	Low Pressure Sodium 4.91; Low Pressure Sodium 6.75 – 7.54
Curves: Degree of Curvature (Right and Left)	
Superelevation (Range)	
Grades: % Grade, Positive or Negative	2.40; –1; 2.70; 2.81; –2; 3.03; 3.10; +1; 3.16; 3.80; +.5; 3.97; 4.75; +1; 4.92; 5.20; –1; 5.38; 5.45; +2; 5.56; 5.80; +2; 6.23; 6.31; +1; 6.51; 6.69; –1; 6.86; 7.69; +1; 7.80; 8.68; –1; 8.85; 9.36; +2; 9.58
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	Rural (1); 3.99; Small Urban (2); 7.71; Rural (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	0.28; Rolling; 2.34; 3.30; 4.20; Flat
Speed: 1–Design, 2–Posted	35 MPH ①; 45 MPH ①; 2.19; 45 MPH When Shoulder Lane is open; 55 MPH ② Minimum 40 MPH
Intersection Control Devices: Type, Location and Cycle Timing	2.09
Traffic Stations (Current Year)	B71 0130 00000; B71 0130 00215; B71 0130 00246; 3.99; B71 0130 00399; B71 0130 00771
HPMS Sections – AADT 2009	35,700; 2.15; 19,326; 2.46; 19,326; 19,326; 11,500
HPMS Sections – AADT 2008	27,100; 19,287; 19,287; 19,287; 11,477
HPMS Sections – AADT 2007	18,285; 2.20; 19,695; 11,720
Rush Hour Shoulder Lane	2.34; North bound Shoulder Ln., 6:00–8:00 am, exc. Sat, Sun, & Hol.; 4.20; 7.71
DOD Sections	
Census Tracts	
Functional Classification	Minor Arterial (6); 3.99; Minor Arterial (16); 7.71; Minor Arterial (6)
National Highway System (NHS)	Not on NHS (0)
Previous Projects: Project No., Date and Limits	(STP–0130 (25), Resurf, 1996) 9.87 →
	5.37; (RS–0130(16), Widened & Resurf., 1990); 6.51; (S–231(1) 1953) → .91; .93 ← (S–0130(9) 1967)
	130B–01–72 (R) 1972; 9.90
	2.33; S–0130(7) 1967; 5.41; S–231(1) 1952; (S–0130(9) 1966) →; Sta 237+50; 9.88; Sta 0+00

SCALE: (In Miles) 2" = 1 mile

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.*

ROAD INVENTORY

HAWAII RTE 130

KEA'AU–PAHOA RD., PAHOA–KALAPANA RD.

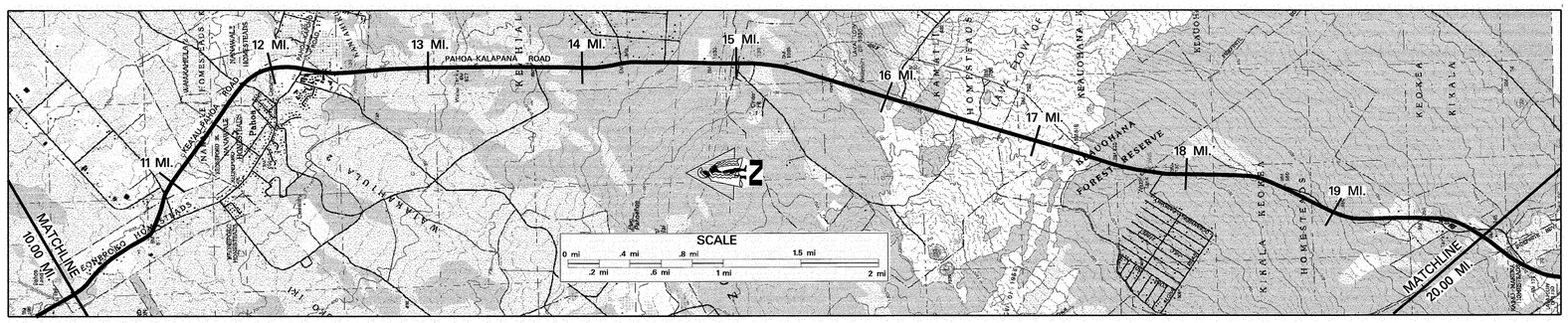
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Designated Route Length:	25.32	MILES (a+b)
a. Existing Length:	25.32	MILES
b. Proposed Length:	0.00	MILES
Total Travel Way Length:	21.83	MILES (a+b, less c)
a. Existing Length:	21.83	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.) | 12.12 KG 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' (10.79) | 50' – 110' | 100'–150' (17.36)

Available Right of Way Width (Needs Study): Residential Area | Trees (12.27–12.66) | Clear 1000'/ Grass, Brush, Sugar Cane 10' from Pavement (17.23) | Trees & Brush

Right of Way Fence: Type – Right and Left (SW = Stone Wall): Chainlink Fence (12.27–12.24) | 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) (10.49) | 130A-01-97M Resurfacing 1998 (17.40)

Project No., Type of Construction, and Year Constructed: STP-0130(29), Resurf, 1996 (10.47) | RS – 0130(20), New Alignment, 1990 (12.36) | 130A-01-92M, Resurf, 1993 (17.40) | S-0130(12) 1971

Road Diagram

* MP = Milepost Signage

ROUTE CONTINUED FROM SHEET #1

Road "A" (Kaiko'o Old Rte 130) Begin Divided Hwy. (10.53) | End Divided Hwy. Kahakai Blvd. (10.66) | Homestead Rd. (West) (10.97) | Homestead Rd. (East) (11.42) | Begin Divided Hwy. (11.74) | Pahoa-Kapoho Rd. (Rte 132) (12.00) | End Divided Hwy. (12.14) | Board of Water Supply Tank (12.34) | Leilani Ave (13.16) | Malama St. (14.20) | ALA ILI RD. (14.49) | Road (14.98) | Road (15.25) | Kamaili Road (to Opihikao) (15.74) | Project Marker Upper Puna Rd (16.03) | One' Ele Rd. (17.41) | Old Kalapana Rd. (17.77) | Old Kalapana Rd. (18.44) | Old Kalapana Rd. (18.55) | Old Kalapana Rd. (18.82) | Old Kalapana Rd. (19.18) | Old Kalapana Rd. (19.52) | Old Kalapana Rd. (19.82)

10 MP (10.69) | 11 MP (11.66) | 12 MP (12.71) | 13 MP (13.71) | 14 MP (14.72) | 15 MP (15.71) | 16 MP (16.71) | 17 MP (17.71) | 18 MP (18.77) | 19 MP (19.71)

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' Gravel (10.46) | 8' AC | 8' AC | 8' AC | 3' Gravel (12.36) | 4' Grass | 0 | 4' Grs. (14.89) | 6' Dirt | 10' Gravel
- Pavement: Width and Type: 24' AC | 12' AC | 24' AC | 12' AC (24'AC) (12.36) | 20' AC | 22' AC (17.39) | 24' AC
- Shoulder: Width and Type: 8' Gravel (10.46) | 0 | 8' AC | 0 | 3' Gravel (12.36) | 4' Grass | 0 | 4' Grs. (14.64) | 6' Dirt | 10' Gravel

Median: Width and Type: 0'–12' Painted AC (10.53–10.97) | 0'–12' Painted AC (12.00–12.34) (12.75, 14.47)

- Shoulder: Width and Type: 0 | 0
- Pavement: Width and Type: 12' AC | 12' AC
- Shoulder: Width and Type: 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' (10.66–10.86, 10.92–10.98, 12.00–12.24, 12.30–12.36)

(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): 4' (Type 2) Gutter (10.66–11.37, 11.45–11.68, 11.74–11.86, 12.03–12.22) | Metal on Concrete (15.68–15.87) | Metal on Metal (15.87–15.97) | 6' Gutter (17.18)

Protective Devices: Type, Location and Number

Illumination: Type, Location and Number: 3 Low Pressure Sodium (10.66–10.78) | 6 Low Pressure Sodium (10.78–11.24, 11.44–11.61) | 4 Low Pressure Sodium (12.13–20) | Low Pressure Sodium (17.77)

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative: (10.47) –2 (10.72) | (12.81) +4 (12.90) | (13.17) –1 (13.32) | (14.75) +2 (14.91) | (15.39) –1 (15.90) | (16.11) –5 (16.47) | (16.59) –1 (17.31) | (17.46) –4 (17.66) | (17.88) –6 (19.21) | (19.75) 5 (19.87) | (19.14) –4 (19.31)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: Rural (1)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: Flat (10.79) | Rolling

Speed: 1–Design, 2–Posted: 55 MPH ② (Minimum 40 MPH ②) (10.46) | 45 MPH ① | 55 MPH ① (10.97) | 45 MPH ① (11.94) | 55 MPH ① | 45 MPH ① (12.36) | 55 MPH ② Minimum 40 ②

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0130 00771 | B71 0130 01088 | B71 0130 01214 | B71 0130 01420 | B71 0130 01777 | (B71 0130 01982)

HPMS Sections – AADT 2009: 11,500 | 7,536 | 3,371 | 1,786 | 1,786 | 1,687

HPMS Sections – AADT 2008: 11,477 | 7,521 | 3,364 | 1,782 | 1,782 | 1,684

HPMS Sections – AADT 2007: 11,720 | 7,680 | 3,435 | 1,820 | 1,820 | 1,720

DOD Sections

Census Tracts

Functional Classification: Minor Arterial (6) | (12.14) | Major Collector (7)

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

Previous Projects: Project No., Date and Limits: S-0130(9), 1967 (10.46) | RS-0130(20) (New Alignment) 1990 (12.36) | HWY-H-01-69 (16.88) | (RS-0132(3) 1986 Widen and Resurf) | RS-SR-0130(19) Resurf 1982 | S-0130(9) 1966 (10.74) Sta 44+81.95 | County (12.32–12.36) | (13.72) | A-130-01-61 Sect. A (R/W) (14.94) | ER-4(1) 1957, 59 (17.40) Sta 0+00 – Sta 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.

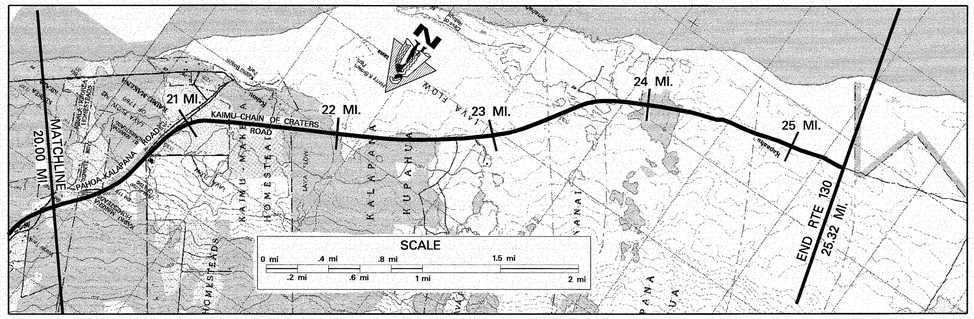
ROAD INVENTORY
HAWAII RTE 130
PAHOA–KALAPANA ROAD, KAIMU–CHAIN OF CRATERS ROAD

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:	25.32	MILES (a+b)
a. Existing Length:	25.32	MILES
b. Proposed Length:	0.00	MILES
Total Travel Way Length:	21.83	MILES (a+b, less c)
a. Existing Length:	21.83	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	20.10 125' – 580' 20.42; 22.55 155'; 22.80 120'; 23.40 155'–170'; 23.96 150'; 24.86 140'; 25.11 120'; 25.36 130'; 25.49 100'–110'; 25.73 155'; 23.31 120'; 23.53 130'–145'; 23.73 120'; 23.78 145'; 23.78 80'
Vertical Clearance	
Horizontal Clearance	

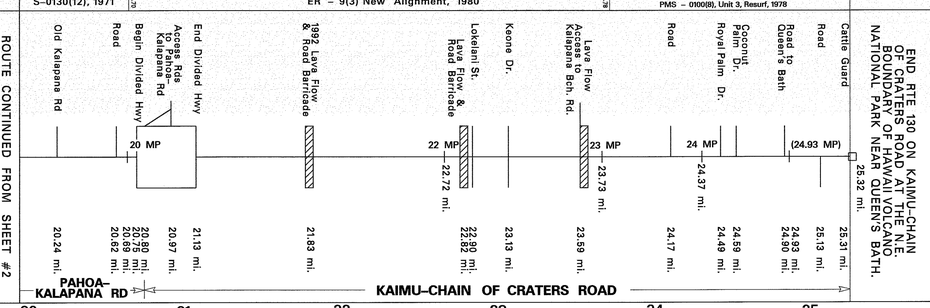
Structure Over Road

Vertical Clearance	
Horizontal Clearance	

Right of Way Width (min.–max.) if varies	100' – 150'
Available Right of Way Width (Needs Study)	Trees & Brush; Residential (24.03–24.40); Clear 1000' Lava Rock 10' from E.P. (24.40–24.78)
Right of Way Fence: Type – Right and Left	SW SW SW SW WW WW
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	130A–01–97M 1998 Resurf.
Project No., Type of Construction, and Year Constructed	S–0130(12), 1971; 20.10 ER – 9(3) New Alignment, 1980; 23.78 130A – 01–79M PMS – 0100(8), Unit 3, Resurf, 1978

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway

Undivided	Shoulder: Width and Type	10' Gravel; 10' AC; 10' AC; 6' AC
	Pavement: Width and Type	24' AC; 12' AC; 24' AC; 22' AC
	Shoulder: Width and Type	10' Gravel; 0; 10' AC; 6' AC
	Median: Width and Type	20.75 0' –10' Painted Median 21.19
	Shoulder: Width and Type	0
	Pavement: Width and Type	12' AC
	Shoulder: Width and Type	10' AC

Number of Traffic Lanes	2 – 12'; 23.78 2 – 11'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	20.41 21.08
(Right Side)	20.41 20.87
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)	6' Gutter 21.08; 24.70 24.86; 24.78 24.86
Protective Devices: Type, Location and Number	
Illumination: Type, Location and Number	
Curves: Degree of Curvature (Right and Left)	
Superelevation (Range)	
Grades: % Grade, Positive or Negative	20.10 –3; 20.41 –3; 20.86 24.39 –2 24.86
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	Rural (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	Rolling; 23.07 24.31 Flat
Speed: 1–Design, 2–Posted	55 MPH – Minimum 40 MPH (2); 21.07 25 MPH (2); 22.71 35 MPH (2); 23.07 Not Posted 25 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	45 MPH (2); 22.46 22.71 22.82 23.39 35 MPH (2)
Traffic Stations (Current Year)	B71 0130 01982; B71 0130 02183
HPMS Sections – AADT 2009	1,687
HPMS Sections – AADT 2008	1,684; 21.83; 25.32
HPMS Sections – AADT 2007	1,720
DOD Sections	21.83
Census Tracts	
Functional Classification	Major Collector (7)
National Highway System (NHS)	Not on NHS (0)
Previous Projects: Project No., Date and Limits	S–130 (12), 1971; 20.10 County A–130–01–60 (Sec. C) 1964; 23.78 (130A – 01 – 79 M PMS – 0100(8), Unit 3) S–130(1) 1964
	Sta 2+35.88; Sta 91+50; Sta 10+52.12

SCALE: (In Miles) 2" = 1 mile

Date Released	
November 2000	
Revised	
7/06	D.B.
9/10	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

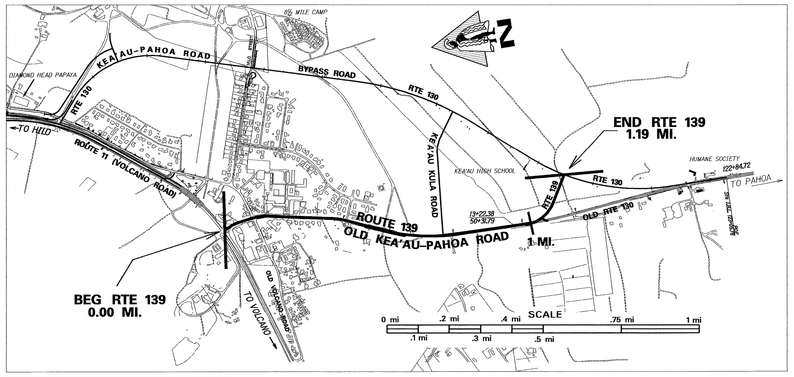
Total Route Length: 1.19 **MILES**

a. **Survey Length:** 1.19 **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

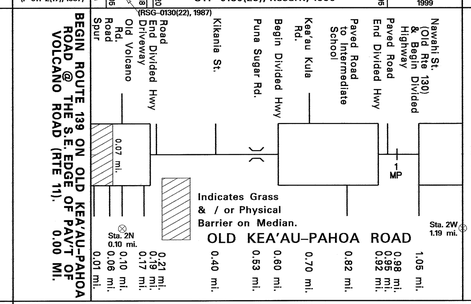
End 139A same as Begin Route — 139A (1.19 mi.)

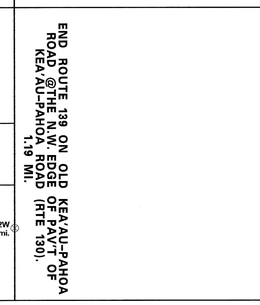
Structure Carrying Road	Bridges (Over 20'): Length, Type, Capacity and Year Constructed	Continuous Conc. Slab HS-20, 1968
	Vertical Clearance	18'
	Horizontal Clearance	44'
Structure Over Road	Vertical Clearance	
	Horizontal Clearance	

Right of Way Width (min.–max.) if varies	80'–85' (0.35); 80'–130' (0.95); 90'–140'
Available Right of Way Width (Needs Study)	Residential (0.30); Clear 1000' – Sugar Cane – 6' from Pav't
Right of Way Fence: Type – Right and Left	Pipe (0.10, 0.17); Chain Link (0.02, 0.03); Chain Link (0.95, 0.95)
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	130B–01–91, Imp., 1993 (0.02)
Project No., Type of Construction, and Year Constructed	(F–011–2(17), 1987) ← (0.05); STP–0130(25), Resurf., 1996 (0.20, 0.18); 130B–01–92 1999 (0.95)

Road Diagram

* MP = Milepost Signage





SCALE: (In Miles) 4" = 1 mile

Divided Highway – Undivided	Shoulder: Width and Type	6' AC (0.34); 10' AC (0.70); 8' Gravel (0.98); 4' AC
	Pavement: Width and Type	12' AC; 24' AC; 12' AC; 24' AC; 12' AC
	Shoulder: Width and Type	0; 0 (0.32); 6' AC (0.41); 2' AC; 0; 8'–10' AC; 0
	Median: Width and Type	8' Grass (Raised) (0.07); 10' Painted Median (0.19, 0.60); 12' Painted Median (0.92, 1.05); 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 (0.70); 8'–10' AC; 4' AC

Number of Traffic Lanes	2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	12' TL (0.05); 11' TL (0.19); 11' TL (0.89); 12' TLs (1.15)
(Right Side)	10' TLs (0.07, 0.14); 12' TLs (0.64, 0.70); 12' TLs (1.05)
Frontage Road: No. of Lanes, and Width (Right and Left)	
Sidewalk: Width and Type (Right and Left)	4' AC S.W. (0.08, 0.17, 0.38, 0.70); 8' Conc. (0.15); 2' AC (0.39); 8' Conc. (0.90)
Curb and/or Gutter: Type (Right and Left)	C. Curb, Curb (0.05, 0.17); C. Curb, Curb (0.32, 0.41); Curb (0.45, 0.55, 0.60, 0.83); C. Curb (0.90, 0.94)
Protective Devices: Type, Location and Number	All Metal on Metal. (1.09)
Illumination: Type, Location and Number	
Curves: Degree of Curvature (Right and Left)	
Superelevation (Range)	
Grades: % Grade, Positive or Negative	+2 (0.78, 0.94)
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	Rural (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	Rolling
Speed: 1–Design, 2–Posted	25 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	2 Phase (0.10); 2 Phase (0.75)
Traffic Stations (Current Year)	B71 0139 00000
HPMS Sections – AADT 2009	6,840
HPMS Sections – AADT 2008	6,826
HPMS Sections – AADT 2007	6,970 (0.00, 1.19)
DOD Sections	
Census Tracts	
Functional Classification	Major Collector (7)
National Highway System (NHS)	Not On NHS (0)
Previous Projects: Project No., Date and Limits	
	(RSG–0130(22), 1987)
	130B–01–83M, (R), 1983 (0.06, 0.18)
	S–0130(2), 1966; S–130(7), 1967 (0.33, 0.95)

SCALE: (In Miles) 4" = 1 mile

Date Released	
June 2003, DB	
Revised	
7/04	*D.B.*
7/06	*D.B.*
9/10	*D.B.*

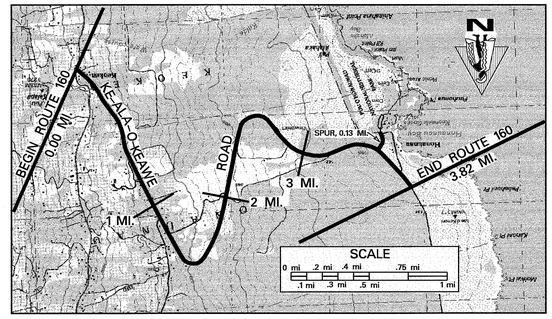
ROAD INVENTORY
HAWAII RTE 160
KE–ALA–O–KEAWE ROAD

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:** 3.82 miles
- **b. Proposed Length:** 0.00 miles
- **c. Other Length: *** 0.13 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 (3.32) — FENCE (L) (3.82)

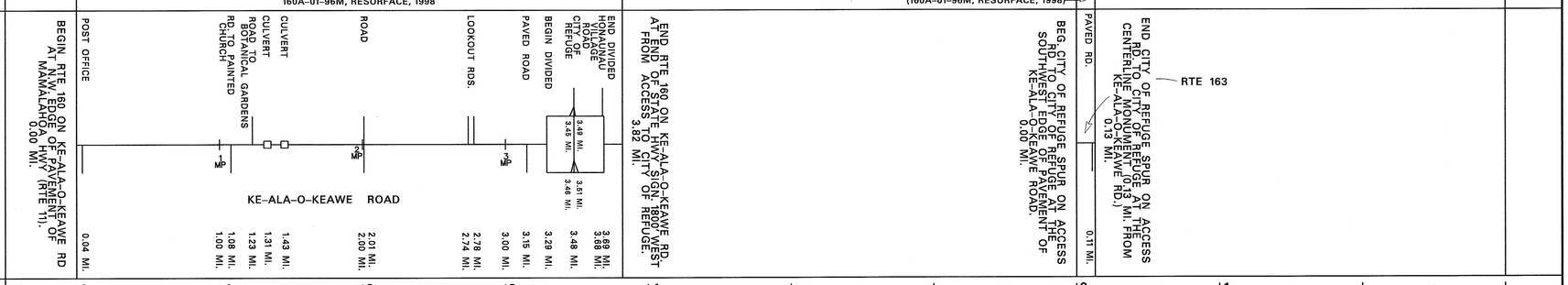
Control of Access: 1–None, 2–Partial, 3–Full: NONE — (NONE)

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

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

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided
- Shoulder: Width and Type: 4' AC — (4' AC)
- Pavement: Width and Type: 24' AC (2.80) 24' BST — 14' AC — 24' AC — (24' AC)
- Shoulder: Width and Type: 4' AC — 0 — 4' AC — (4' AC)

Divided Highway – Median
- Median: Width and Type: (3.29) 0–20' PAINTED AC (3.69)
- 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 (3.48) (3.56)

(Right Side): (2.38)

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: METAL ON CONCRETE (0.01, 1.62) — METAL ON METAL (2.86, 3.01, 3.30, 3.39) — (METAL ON METAL) (0.11, 0.08)

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1) — (RURAL (1))

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

Speed: 1–Design, 2–Posted: 45 MPH (MIN. 30 MPH) (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0160 00000 — (B71 0160 00108) (1.08) — B71 0160 00123 (3.48) — B71 0160 00348 — (B71 0160 00348)

HPMS Sections – AADT 2009: 1,389 — 1,389 (1.23) — 991 — 991 — 696

HPMS Sections – AADT 2008: (0.00) 1,386 — 1,386 — 989 — 989 — 695 (3.61)

HPMS Sections – AADT 2007: 1,415 — 1,010 (1.31) — 710

DOD Sections

Census Tracts

Functional Classification: MAJOR COLLECTOR (7) — (MAJOR COLLECTOR (7))

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) STA. 53+50'; S-0160(2) UNIT 1, 1961; S-0160(2) UNIT 2, 1961 (3.16) — (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.

ROAD INVENTORY
HAWAII RTE 190
MAMALAHOA HIGHWAY

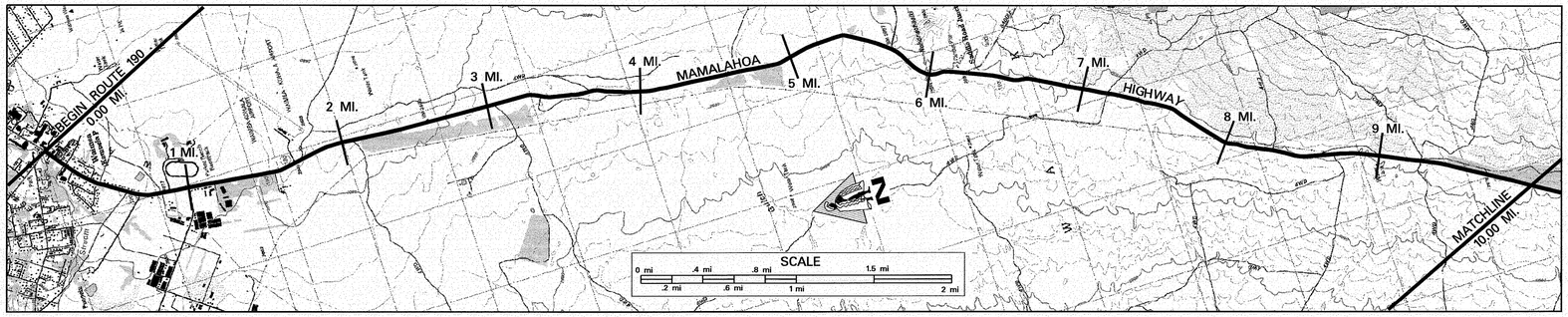
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 38.99 miles
- a. Survey Length: 38.99 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.)

6.32 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'; 8.42 100'–145'; 8.75 80'–90'; 9.75 100'–145'

Available Right of Way Width (Needs Study): RESIDENTIAL, FARMS, RANCHES (1.20); 1000' CLEAR – PASTURES – 10'–15' FROM PAVEMENT; 8.75 CLEAR 1000' – PASTURELAND W/ LAVA ROCK AND SOME TREES

Right of Way Fence: Type – Right and Left: 0.35 WIRE ON WOOD – 10' FROM PAVEMENT; 1.20 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: (STP–019–1(24), 2000 RESURF., SUPPL. (ALSO SEE RTE 199))

Project No., Type of Construction, and Year Constructed: 0.10 WDRC 12(1), 1947; 1.00 190E–01–98M, RESURF., 1999; 4.68 4.70 190DE–01–99M, 2000 (RESURF.); 9.74

Road Diagram

* MP = Milepost Signage

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

0.09 MI. PAVED DRIVEWAY; 0.15 MI. PAVED ROAD; 0.22 MI. TELESCOPE CORP. ROAD; 0.34 MI. KAOMOLOA RD.; 0.39 MI. END DIVIDED; 0.40 MI. ANUU CIRCLE; 0.59 MI. ENT. TO PARKER RANCH; 0.68 MI. ROAD TO PARKER RANCH H.Q.; 0.86 MI. LALAMILO ROAD; 1.00 MI. END STATE HWY SIGN; 1.11 MI. ROAD; 1.20 MI. FORMERLY END OF S 190; 1.56 MI. PAVED ROAD; 1.71 MI. WAIMEA-KOHALA AIRPORT ROAD; 2.02 MI.; 3.01 MI.; 4.02 MI.; 4.57 MI. KAMAKOA BR. #1; 4.68 MI.; 5.01 MI.; 5.70 MI. ROAD TO QUARRY (WEST HAWAII CONCRETE); 5.99 MI.; 6.25 MI. SADDLE ROAD (RTE 200); 7.00 MI.; 7.58 MI. KAMAKOA BR. #2; 8.00 MI.; 8.98 MI.; 9.00 MI. ROAD; 9.97 MI.

MAMALAHOA HWY

CONTINUED ON SHEET #2.

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided

Shoulder: Width and Type: (0'–10' AC) 0.09; (8'–3' AC) 0.10; 1' AC; 25' GRASS

Pavement: Width and Type: (11' AC); 22' AC; (11' AC) 22' AC; 22' AC; 8.36 24' AC; 8.71 9.09; 24' AC; 9.74 22' AC

Shoulder: Width and Type: 0; 8' GRASS; 5' AC; 0.23; 0.44; 0.25; 15' GRASS; 4' AC

Divided Highway – Divided

Median: Width and Type: (11'–0' PAINTED AC); 0.22; 0.34; (12'–0' PAINTED AC)

Median Barriers: 0.08; 0.39

Shoulder: Width and Type: 0; 0

Pavement: Width and Type: (28'–11' AC); (11' AC)

Shoulder: Width and Type: (0'–10' AC); (5' AC)

Number of Traffic Lanes: (1–11') 0.10; (1–(28'–11')) 0.11; 2–11'; 8.36 2–12'; 8.71 9.09 (2–10'); 2–12'; 9.74 2–11'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 14' T.L. 0.24; 11' T.L. 0.34; 10' T.L. 0.27

(Right Side): 0.34; 0.34; 0.27; 0.08

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

Sidewalk: Width and Type (Right and Left): 0.06 4' CONC. S.W.; 0.03 8' CONC. S.W.

Curb and/or Gutter: Type (Right and Left): 0.06; 0.03 CONC. CURBS (NO GUTTERS)

Protective Devices: Type, Location and Number: 5.40 6.48 METAL ON METAL; 7.48 7.58 METAL ON METAL; 9.30; 9.34; 9.54; 9.74; 9.67; 9.87; 9.97 WOOD ON CONCRETE

Illumination: Type, Location and Number: MV 0.69

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative: 8.12 +2; 8.29; 9.89 –4

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: SMALL URBAN (2) (2.02); RURAL (1)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: FLAT (1.44); ROLLING

Speed: 1–Design, 2–Posted: 35 MPH (2); 0.73 35 MPH (2); 55 MPH (2) – MINIMUM 45 MPH; 55 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0190 00000; B71 0190 00120; B71 0190 00202; B71 0190 00625

HPMS Sections – AADT 2009: 10,112; 5,627; 7,236; 4,264

HPMS Sections – AADT 2008: 10,092; 1.20; 5,616; 7,222; 8.25; 4,255

HPMS Sections – AADT 2007: 10,305; 1.00; 5,735; 7,375; 2.02

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (16) (2.02); MINOR ARTERIAL (6)

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

Previous Projects: Project No., Date and Limits

4.53 RS–0190(8) 1988, (R); (RS–0190(5), 1980)—7.47 7.66

WDRC 12(1) 1947; 1.00 RS–0190(7), RESURF. & REALIGN., 1987; 4.53; 5.45; 19 DE–01–68; 8.38 RS–0190(2), 1979 9.09; 9.15 F–10(6), 1953 9.75 (FAP 10–C(1), 1938); WDRC 12(1) 1948; 6.26; COUNTY; STA. 232 + 95'; STA. 199 + 00'

SCALE: (In Miles) 2" = 1 mile

Date Released	
OCT 05, D.B.	
Revised	
7/06	D.B.
9/10	D.B.

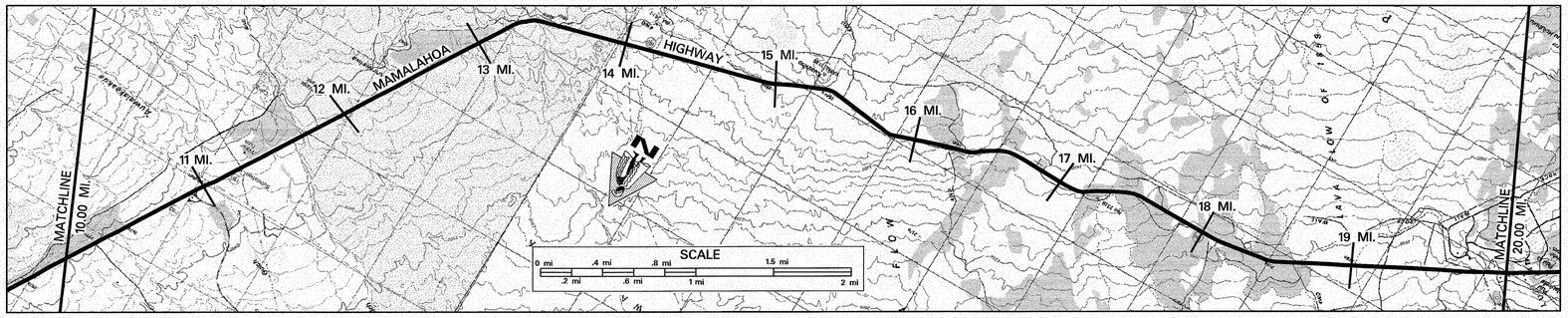
ROAD INVENTORY
HAWAII RTE 190
MAMALAHOA HIGHWAY

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: 38.99 miles
a. Survey Length: 38.99 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 (13.49) | 190 C (7.87 MI.)

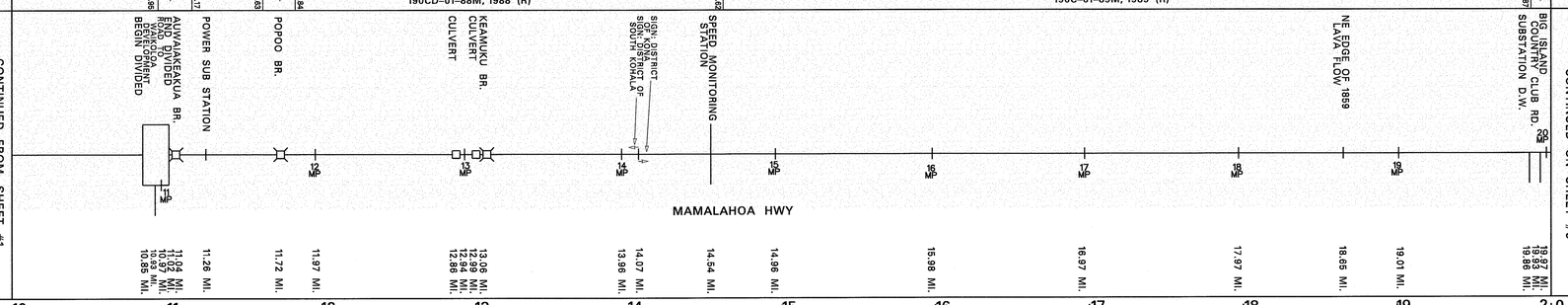
Structure Carrying Road
- **Bridges (Over 20'): Length, Type, Capacity and Year Constructed**: PRESTRESSED CONCRETE GIRDER, HL-93, 2001 (133' @ 10.04, 119' @ 11.72); SLAB 1940, H-15 (23' @ 10.06)
- **Vertical Clearance**: 40', 40', 32'
- **Horizontal Clearance**

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 (13.23); CLEAR 1000', LAVA ROCK, GRASS, TREES – 10' FROM PAVEMENT (18.79)
Right of Way Fence: Type – Right and Left: WIRE ON WOOD 10' FROM PAVEMENT (12.34) | WIRE ON WOOD 10' FROM PAVEMENT (18.34)
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) (10.96–11.63); 190BC-02-06M, PVMT. PREVENT. MAINT., 2009 (18.42–19.87); (19C-01-70, (RESURF. & REHAB.), 1971) (19.87)
Project No., Type of Construction, and Year Constructed: 190CD-01-88M, 1988 (R) (11.84–14.42); 190C-01-89M, 1989 (R) (14.42–19.87)

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 (10.76) | 21' AC | 14' AC | 21' AC (13.48) | 18' AC (15.79) | 22' AC
- **Shoulder: Width and Type**: 4' AC | 0 | 4'–5' AC | 5' DIRT

Divided Highway – Divided
- **Median: Width and Type**: (0–12' PAINTED MEDIAN) (10.96–11.02)
- **Median Barriers:**
- **Shoulder: Width and Type**: 0
- **Pavement: Width and Type**: 17' AC
- **Shoulder: Width and Type**: (2–10.5') 4'–5' AC

Number of Traffic Lanes: 2–11' (10.76) | 1–14' 1–17' | 2–10.5' (13.48) | 2–9' (15.79) | 2–11'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 11.01–11.13
(Right Side): 10.85–10.93
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): 11.13
Protective Devices: Type, Location and Number: M/M (10.01–11.15); METAL RAILS ON CONCRETE POSTS (13.19–13.41)
Illumination: Type, Location and Number
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative: (–4) 10.05 | 10.41 +1 | 10.75–10.84 | –4 | 11.06–11.13 | +1 | 11.38 | 11.74 | +1 | 12.24 | 13.00 | +2 | 13.23 | 13.61 | –3 | 13.73–13.90 | –3 | 14.03–14.09 | +1 | 14.38 | 14.49 | +4 | 14.95 | 15.46 | +1 | 15.65 | 16.00 | +1 | 16.28–16.12 | 18.41 | +1 | 19.24 | 4 | 19.34–19.44 | 19.77 | +4 | 19.87
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING
Speed: 1–Design, 2–Posted: 55 MPH (2) – MINIMUM 40 MPH; 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0190 00625 | B71 0190 01093 | (B71 0190 01993)
HPMS Sections – AADT 2009: 4,264 | 4,264 | (4,264)
HPMS Sections – AADT 2008: 4,255 (10.93) | 4,255 | (4,255) (19.87)
HPMS Sections – AADT 2007: 7,375 (11.26) | 4,345 (15.98) | 4,345
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (6)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits: RS-0190(8), 1988 (R) (10.76–15.79); 190CD-01-88M, 1988 (R) (13.25–16.45); 19C-01-70 (RESURF & REHAB), 1971; FAP 10-C(1), 1938 (13.36–13.62); FAP E-10B, 1932 (STA. # 642 + 00); FAP 10-A, 1932

SCALE: (In Miles) 2" = 1 mile

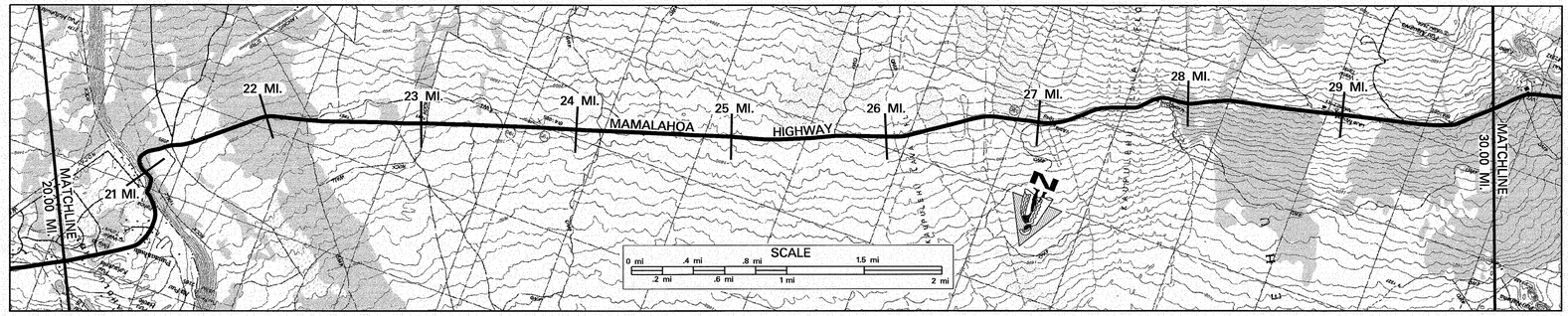
Date Released	
OCT. 05, D.B.	
Revised	
7/06	D.B.
9/10	D.B.

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: 38.99 miles
a. Survey Length: 38.99 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 (21.55) | 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); 60'–150'; 80'–217'
Available Right of Way Width (Needs Study): (RESIDENTIAL AREA); 1000' CLEAR, LAVA ROCK, W/ BRUSH, GRASS – 10' FROM PAVEMENT; (CONC. WALL) BRUSH, GRASS, TREES; BRUSH, GRASS, & LARGE TREES
Right of Way Fence: Type – Right and Left: STONE WALL 8' FROM PAVEMENT; WIRE ON WOOD 16'–20' FROM PAVEMENT; CRM WALL
Control of Access: 1–None, 2–Partial, 3–Full: (WIRE ON WOOD – 10' FROM PAVEMENT); NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE
Project No., Type of Construction, and Year Constructed: 190BC–02–06M, PVMT. PREVENT. MAINT., 2009; 190B–02–04M, RESURFACE, 2008; (STP–0100(31) – GUARDRAIL IMPROVEMENTS, 1994)
Project No., Type of Construction, and Year Constructed: (19C–01–70 (RESURF. & REHAB.) 1971); 190BC–01–90M (RESURFACE)1991; (190B–01, 1971); HES–0190(9), (IMPROV.) 1991; 190B–01–91M (R) 1992

PUU LANI RANCH ROAD | POWER SUB-STATION PUU WAAWAA RANCH RD. | TRIG. STATION | SCENIC LOOKOUT | HUALALAI RANCH ROAD

MAMALAHOA HWY

CONTINUED FROM SHEET #2 | CONTINUED ON SHEET #4

Road Diagram
* MP = Milepost Signage

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided
- Shoulder: Width and Type: 4' DIRT; 3' AC; 7' AC; 7' GRAVEL
- Pavement: Width and Type: 22' AC; 20' AC; 22' AC
- Shoulder: Width and Type: 5' DIRT; 3' AC; 4' AC; 7' GRAVEL

Divided Highway – Median
- Median: Width and Type
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

Number of Traffic Lanes: 2–11'; 2–10'; 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): 2' AC GUTTER
Protective Devices: Type, Location and Number: CRM WALL
Illumination: Type, Location and Number
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative: +1, –5, +4, +1, –2, –1, +1, +1, –2, –1, +1, –1, –1
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING
Speed: 1–Design, 2–Posted: (55 MPH (2) (MINIMUM 40 MPH)); 55 MPH (2); 35 MPH (1); 50 MPH (1) (MINIMUM 40 MPH); 55 MPH (2); 50 MPH (1) (MINIMUM 40 MPH); 55 MPH (2); 55 MPH (2) (MINIMUM 40 MPH)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0190 01993
HPMS Sections – AADT 2009: 4,264
HPMS Sections – AADT 2008: 4,255
HPMS Sections – AADT 2007: 4,345
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (6)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits: F–10(5), 1956; F–10(5), 1954; STA. 8+92 – STA. 406+50; (FAP 10–A, 1933)–28.30; 28.39; 28.73–(FAP 10–A, 1932); 28.57; STA. 397+19 – STA. –0+50; 19C–01–70 (RESURF. & REHAB.), 1971; 21.28; 21.30; 190B–01–71 (RESURFACE) 1971; F 10–A, 1932

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.

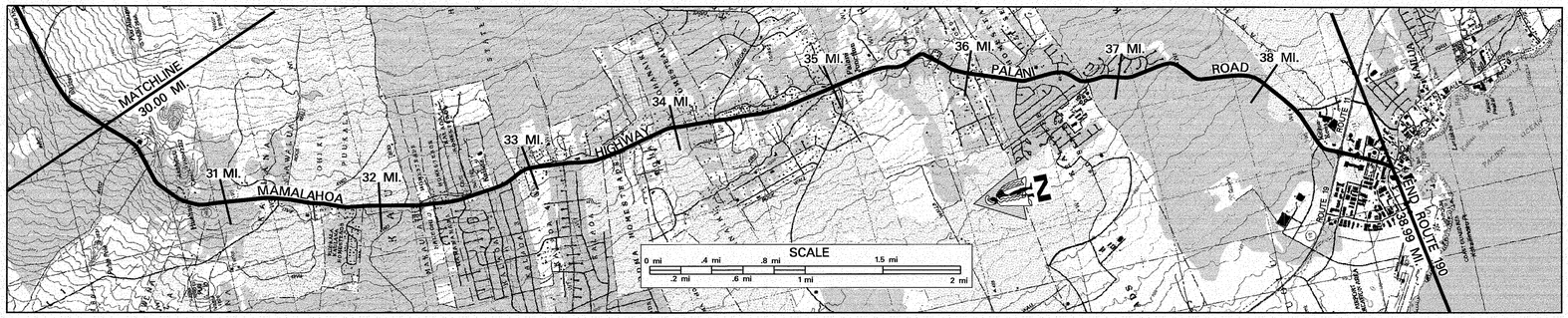
ROAD INVENTORY
HAWAII RTE 190
MAMALAHOA HWY., PALANI RD.

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: 38.99 miles
a. Survey Length: 38.99 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

30 31 32 33 34 35 36 37 38 39 40

190 B (13.91 MI.)
BEGIN 190 B ON MAMALAHOA HWY AT THE CENTERLINE OF FASC 180 (30.28)

80'–217' (32.37) | 40'–60' (36.29, 38.63)
BRUSH, GRASS & LARGE TREES | RESIDENTIAL AREA
STONEWALL 4'-8' FROM PAVEMENT (36.32, 38.63)
STONEWALL 4'-8' FROM PAVEMENT
NONE
STATE (36.26) | COUNTY
STP–0100(31) – GUARDRAIL IMPRV. 1994 (33.15) | (190B–02–91, (IMPRV.), 1993) (33.39)
190B–01–91M, (R), 1992 (33.15) | 190B–01–91M, (R), 1992 (36.31)

Indicates Grass & / or Physical Barrier on Median.

Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #3

2000' ELEV. SIGN (30.11 MI.) | HUEHUE RANCH HOAD RANCH (30.62 MI.) | ROAD (R) MAKALEI HAWAII (30.96 MI.) | ROAD (31.33 MI.) | ROAD (R) (31.53 MI.) | BEGIN DIVIDED (31.82 MI.) | END DIVIDED (31.96 MI.) | KA'A LELE ST. (32.02 MI.) | MAKA'ULA RD. (32.12 MI.) | KA'A LELE ST. (32.22 MI.) | ACCESS RD. (32.32 MI.) | LOLOA DR. (32.52 MI.) | RD. TO CHURCH (32.56 MI.) | MAHLANI DR. (32.68 MI.) | AHIKAWA ST. (32.71 MI.) | KALAOA SCHOOL ROAD (32.84 MI.) | END DIVIDED (33.03 MI.) | BEGIN DIVIDED (33.12 MI.) | NATSUYAMA STORE LANI DR (33.21 MI.) | HAMO STREET (33.29 MI.) | OOMA PL. (33.36 MI.) | KALAOA ST. (33.45 MI.) | KALAOA ST. (33.55 MI.) | HAMO STREET (33.65 MI.) | ROAD (R) (33.72 MI.) | OOMA PL. (33.77 MI.) | ROAD (R) (33.93 MI.) | CHURCH OF GOD RD. (33.95 MI.) | LIHAU ST. (34.12 MI.) | KALOKO DR. (34.24 MI.) | 1500' ELEV. SIGN (34.46 MI.) | MAKALAPUA RD. (34.51 MI.) | ROAD (R) (34.77 MI.) | BEG. DIVIDED (35.00 MI.) | END DIVIDED (35.06 MI.) | HINALANI ST. (R) (35.17 MI.) | OLD MAMALAHOA HWY (35.24 MI.) | END STATE HWY SIGN (35.30 MI.) | BASE YARD (35.95 MI.) | ROAD TO METHODIST CHURCH (36.02 MI.) | HAO KUNI ST. (36.21 MI.) | PAMAHOA PL. (36.29 MI.) | UUA TOM PL. (36.37 MI.) | TOM TOM DR. (36.48 MI.) | IWALANI PL. (36.52 MI.) | KAHUMANA PL. (36.64 MI.) | ROAD (36.77 MI.) | PEDESTRIAN OVERPASS (36.84 MI.) | KEALAKAA ST. (36.95 MI.) | PALIHOLO ST. (37.15 MI.) | KONALANI ST. (37.37 MI.) | RD. TO WATER TANK (37.94 MI.) | END DIVIDED (38.30 MI.) | BEGIN DIVIDED (38.40 MI.) | END DIVIDED (38.54 MI.) | BEGIN DIVIDED (38.64 MI.) | MAKALAPUU (38.49 MI.) | KORIKO STREET (38.63 MI.) | LAHAU SHOPPING CENTER ROAD (38.69 MI.) | QUEEN KAAHUMANU HWY EXTENSION (L) (38.72 MI.) | BEGIN DIVIDED (38.84 MI.) | END DIVIDED (38.94 MI.) | KONA COAST SHOPPING CENTER ROADS (38.99 MI.)

MAMALAHOA HWY — PALANI ROAD — QUEEN KAAHUMANU HWY (R)

END RTE 190 ON PALANI ROAD AT THE NORTHEAST EDGE OF PAV'T OF KUAKINI HWY. 38.99 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided:
Shoulder: Width and Type: 7' GRAVEL | 6' AC | 7' GRAVEL | 6' AC (7' GRV) | 4' DIRT | 6' AC | 2' AC | (2'-10' AC) 0
Pavement: Width and Type: 22' AC | 11' AC | 22' AC | 11' AC | 22' AC | 11' AC (22' AC) | 20' AC | 30' AC | 20' AC | 12' AC | 24' AC | 24' AC (12' AC)
Shoulder: Width and Type: 7' GRAVEL | 0 | 7' GRAVEL | 0 | 7' GRAVEL | 0 (7' GRV) | 4' DIRT | 0 | 2' AC | 0 (1' AC)
Median: Width and Type: (11' AC PAINTED) | (0'-12' PAINTED AC) | (0'-12' RAISED) GRASS W/ CURB)
Median Barriers: (0'-28' RAISED GRASS & TREE W/ CURB)
Shoulder: Width and Type: 0 | 0 | 0 | 0 | 0 (1' AC) 0
Pavement: Width and Type: 11' AC | 11' AC | 11' AC | 12' AC | 24' AC (12' AC)
Shoulder: Width and Type: 10' AC | 5' AC | 6' AC | 6' AC | 6' AC | (4' AC) 0

Number of Traffic Lanes: 2–11' | 2–10' | 2–10' (2–10' / 1–10') | 2–12' | 4–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 11' (L) TLs | 11' TLs
(Right Side): 12' TLs
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): 4' AC S.W. | 4' CONC. S.W.
Curb and/or Gutter: Type (Right and Left): AC CURB | AC CURB | (2' GUTTER/CURB) (2' GUTTER/CURB)
Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL, UNLESS OTHERWISE NOTED: METAL ON CONCRETE
Illumination: Type, Location and Number: MV
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative: –4 | –6 | –7 | –7 | –6
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (1) | SMALL URBAN (2) | RURAL (1) | SMALL URBAN (2)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING
Speed: 1–Design, 2–Posted: 55 MPH (2) / 55 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 01993 | B71 0190 03131 | B71 0190 03222 | (B71 0190 03526) | B71 0190 03530 | B71 0190 03740 | B71 0190 03778 | B71 0190 03863
HPMS Sections – AADT 2009: 4,264 | 4,264 | 13,678 | (13,678) | 18,236 | 18,236 | 18,236 | 19,625
HPMS Sections – AADT 2008: 4,255 | 4,255 | 13,651 | (13,651) | 18,200 | 18,200 | 18,200 | 19,586
HPMS Sections – AADT 2007: 4,345 | 13,940 | 18,585 | 20,000
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (6) | MINOR ARTERIAL (16) | MINOR ARTERIAL (6) | MAJOR COLLECTOR (17)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits
F–10(5), 1956 (30.76) | 190B–02–71, RESURF., 1971 (32.53) | F–10(5), 1954 | 190B–01–86M, (R) 1986 (35.32) | COUNTY TO STATE – PHASE 3 (35.27, STA. 41+00) (38.63)

SCALE: (In Miles) 2" = 1 mile

Date Released
OCT. 05, D.B.

Revised	
7/06	D.B.
9/10	D.B.

ROAD INVENTORY

HAWAII RTE 197
KEALAKEHE PARKWAY

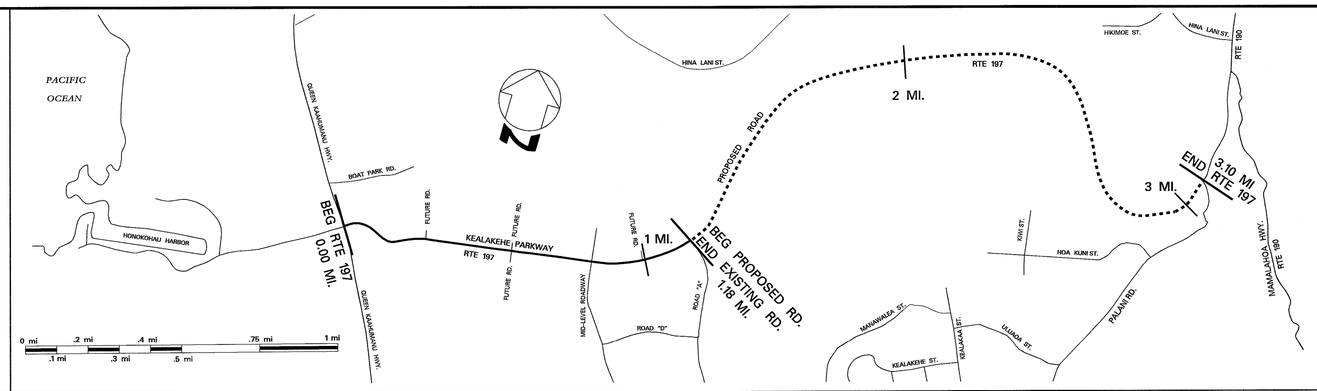
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Designated Route Length:	3.10	MILES (a+b)
a. Existing Length:	1.18	MILES
b. Proposed Length:	1.92	MILES
Total Travel Way Length:	1.18	MILES (a+b, less c)
a. Existing Length:	1.18	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) 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)

Project No. and Type of Construction

Year Project Constructed

Road Diagram

* MP=Milepost Signage

0.00 MI. BEGIN RTE 197 ON KEALAKEHE PARKWAY AT THE NORTHEAST EDGE OF PAVEMENT OF QUEEN KAAHUMANU HWY. (RTE 19)

END EXISTING ON KEALAKEHE PKWY. @ ℄ OF KEANALEHU DR. (B) (BEG. PROPOSED RD.) 1.18 MI.

END RTE 197 ON PROPOSED ROAD @ SOUTH EDGE OF PAVEMENT OF PALANI ROAD. 3.10 MI.

Indicates Grass & / or Physical Barrier on Median.

BEGIN DIVIDED — 0.05 MI. — FUTURE RD (A) — 0.30 MI. — FUTURE RD (C) & (D) — 0.58 MI. — ANE KEOHOKALOLE HWY (C) & (D) — 0.84 MI. — FUTURE RD (L) — 1.01 MI.

KEALAKEHE PARKWAY | PROPOSED ROAD

SCALE: (In Miles) 4" = 1 mile

Divided Highway — Undivided:

- Shoulder: Width and Type: 12' AC | 0 | 0'–14' AC | 0
- Pavement: Width and Type: (24'AC) 0.27 | 12'AC | 0.97 | 1.13
- Shoulder: Width and Type: (12' AC) 0 | 3'AC

Divided Highway — Median:

- Median: Width and Type: 0.49 | 12' PAINTED AC | (6' AC (FLUSH) AC CURBS BOTH SIDES) 1.13 | (6'–15' AC (FLUSH) AC CURBS BOTH SIDES)

Divided Highway — Undivided:

- Shoulder: Width and Type: 0 | 3'AC
- Pavement: Width and Type: 12' AC | 24'AC
- Shoulder: Width and Type: 12' AC | 0.33 | 2'AC | 1.13

Number of Traffic Lanes: 2–12' | 0.27 | 1–12' / 2–12' | (2–12')

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 0.19 | 11'AC | 0.84 | 0.47

(Right Side): 11'AC

Frontage Road: No. of Lanes, and Width (Right and Left): 0.27

Sidewalk: Width and Type (Right and Left): 4' CONC. S.W.

Curb and/or Gutter: Type (Right and Left): 2' GUTTER, CONC. CURB / CONC. CURB

Protective Devices: Type, Location and Number: METAL GUARDRAIL 0.28

Illumination: Type, Location and Number: 0.44 | 0.31 | HPS Left Side Only

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: Small Urban (2)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: 0.39 | 2–Rolling

Speed: 1–Design, 2–Posted: 25 MPH (2) | 0.21 | 35 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0197 00000 | B71 0197 00032 | (B71 0197 00112)

HPMS Sections – AADT 2009: 3,435 | 3,435 | (3,435)

HPMS Sections – AADT 2008: 3,428 | 0.32 | 3,428 | 1.12 | (3,428)

HPMS Sections – AADT 2007: 3,500

DOD Sections

Census Tracts

Functional Classification: Minor Arterial (16) | 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	
June 1999	
Revised	
5/06	G.N.
9/10	D.B.

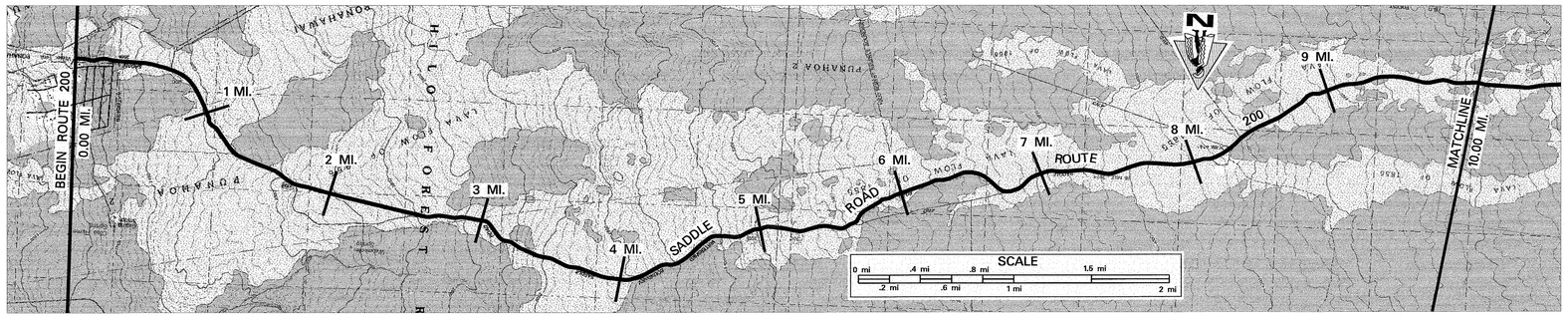
ROAD INVENTORY
HAWAII RTE 200
SADDLE ROAD

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: 44.77 miles
- a. Survey Length: 44.77 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'–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	1.13 RS-0200(4), COUNTY PROJECT, 1987 (R) — 3.12 RS-0200(3), COUNTY PROJECT, 1987 (R)

Road Diagram

* MP = Milepost Signage

BEGIN RTE 200 0.00 MI. ON SADDLE ROAD AT THE HILO URBAN BOUNDRY (FOREST RESERVE SIGN) APROX. 0.17 MI. (897') SOUTHEAST OF TRIG STATION

TRIG. STATION UA NAHELE ST. — HILO FOREST RESERVE SIGN — HILO FOREST RESERVE SIGN

SADDLE ROAD

8 MP, 9 MP, 10 MP, 11 MP, 12 MP, 13 MP, 14 MP, 15 MP, 16 MP, 17 MP

0.17 MI., 0.18 MI., 1.16 MI., 2.24 MI., 3.11 MI., 3.08 MI., 4.10 MI., 5.14 MI., 6.10 MI., 7.09 MI., 8.13 MI., 8.06 MI., 9.18 MI.

CONTINUED ON SHEET #2

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type	2'–4' GRASS; 1.13–3.12: 4' AC; 3.12–3.86: 10' DIRT; 3.86–4.63: 4' AC; 4.63–6.30: 10' DIRT; 6.30–6.58: 4' AC; 6.58–9.18: 2' AC/10' DIRT; 9.18–9.23: 4' AC; 9.23–: 10' DIRT
Pavement: Width and Type	20' BST; 1.13–: 22' AC
Shoulder: Width and Type	2'–4' GRASS; 1.13–3.12: 4' AC; 3.12–3.86: 10' DIRT; 3.86–4.63: 4' AC; 4.63–6.30: 10' DIRT; 6.30–6.58: 4' AC; 6.58–9.18: 2' AC/10' DIRT; 9.18–9.23: 4' AC; 9.23–: 10' DIRT
Median: Width and Type	
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)	
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: Degree of Curvature (Right and Left)	
Superelevation (Range)	
Grades: % Grade, Positive or Negative	
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	RURAL (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	ROLLING
Speed: 1–Design, 2–Posted	(NOT POSTED) 0.18; 35 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	
Traffic Stations (Current Year)	B71 0200 00000; 1.13–: B71 0200 00113
HPMS Sections – AADT 2009	1,600; 1,009
HPMS Sections – AADT 2008	1,007; 1.13–: 1,007
HPMS Sections – AADT 2007	1,028; 1.16–: 1,028
DOD Sections	
Census Tracts	
Functional Classification	MINOR ARTERIAL (6)
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.

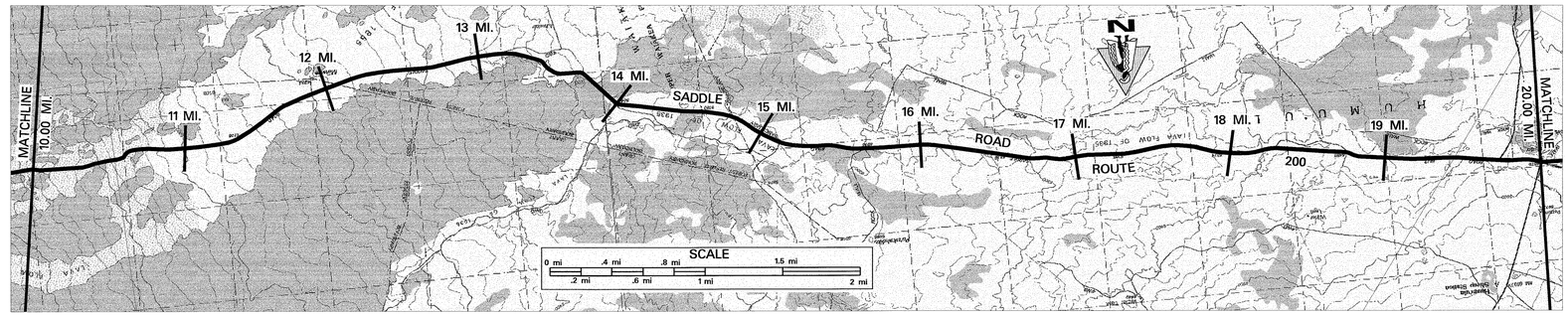
ROAD INVENTORY
HAWAII RTE 200
SADDLE ROAD

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: 44.77 miles
- a. Survey Length: 44.77 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*



SCALE: (In Miles) 2" = 1 mile

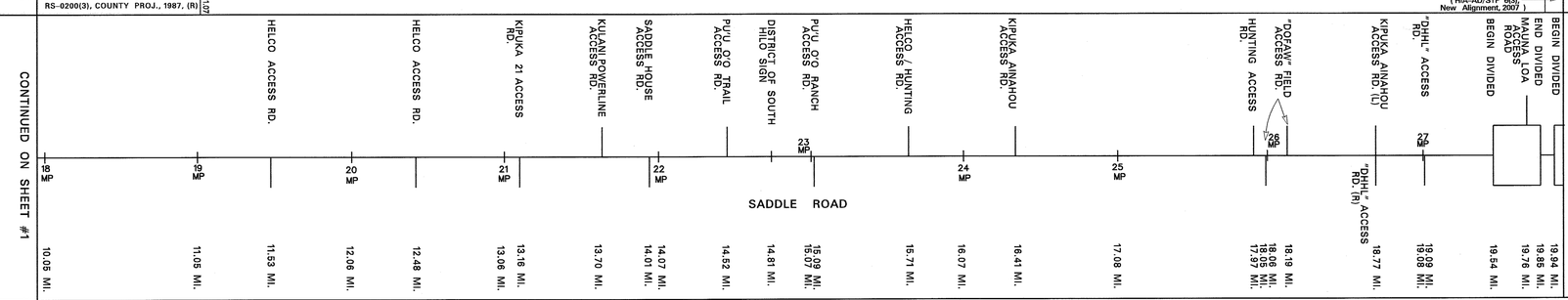
Maintenance Control Sections : Length and Description

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' (10.96–11.24); VARIES 170'–196' (19.88–20.00) 196'
Available Right of Way Width (Needs Study): BRUSH, GRASS AND TREES; 1000' CLEAR– LAVA ROCK – 10'–15' FROM EDGE OF PAVEMENT
Right of Way Fence: Type – Right and Left: (WOOD ON WOOD 40' FROM E.P.) (14.40–14.74)
Control of Access: 1–None, 2–Partial, 3–Full: NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): COUNTY; COUNTY TO STATE (TRANSFER PENDING) (19.88)
Project No., Type of Construction, and Year Constructed: STP 200(1), NEW ALIGNMENT & WIDENING, 2008 (10.96–19.88); (694+00); (HIA-AD/STP 6(3), New Alignment, 2007)
Project No., Type of Construction, and Year Constructed: RS-0200(3), COUNTY PROJ., 1987, (R) (10.96–11.07)

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided:
- Shoulder: Width and Type: 10' DIRT, 4' AC, 10' DIRT, 10' DIRT; 8' AC (20' AC)
- Pavement: Width and Type: 22' AC (4' AC); 24' AC
- Shoulder: Width and Type: 10' DIRT, 4' AC, 10' DIRT, 10' DIRT; 8' AC (20' AC); 8' AC (20' AC); 8' AC (20' AC); 8' AC (20' AC); 8' AC

Divided Highway — Median:
- Median: Width and Type: 12' AC (24' AC) (12' AC); 0 (8' AC) (0' AC); 20' PAINTED AC (0–20' PAINTED AC)
- Median Barriers:

Divided Highway — Undivided:
- Shoulder: Width and Type: 0 (0' AC)
- Pavement: Width and Type: 12' AC (12' AC)
- Shoulder: Width and Type: 8' AC (8' AC)

Number of Traffic Lanes: 2–11' (10.96); 2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 1–12' (L) TL (19.76–20.00)
(Right Side): 1–12' TRUCK CLIMBING LANE (10.96–17.08); 1–12' (R) TL (19.88–20.00)
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: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING; FLAT
Speed: 1–Design, 2–Posted: 45 MPH (1) (11.07–11.51); 35 MPH (2) (10.96–11.07); 55 MPH (2) (11.51–11.82); 45 MPH (2) (11.82–12.15); 55 MPH (1)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0200 00113; B71 0200 01096; (B71 0200 01976)
HPMS Sections – AADT 2009: 1,009; 1,423; 773
HPMS Sections – AADT 2008: 1,007; 1,420; 771
HPMS Sections – AADT 2007: 1,028; 1,450; 787
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (6)
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.

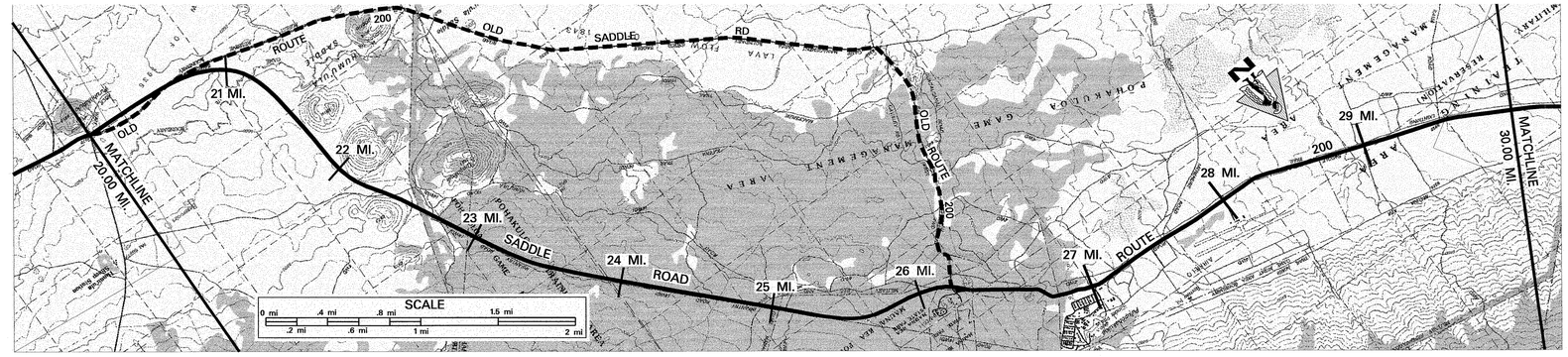
ROAD INVENTORY
HAWAII RTE 200
SADDLE ROAD

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: 44.77 miles
a. Survey Length: 44.77 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' (24.61)
- Vertical Clearance
- Horizontal Clearance

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) if varies: 196' (21.07) 174' (21.19) 160' (22.13) 140' (22.81) 196' (26.33) VARIES 50'–150'

Available Right of Way Width (Needs Study): 1000' CLEAR – LAVA ROCK W/ SMALL BUSHES 10'–15' FROM E.P. (26.56) 1000' CLEAR – GRASSLAND W/ BUSHES & SMALL TREES 10'–15' FROM E.P.

Right of Way Fence: Type – Right and Left: NONE (26.56) (WIRE ON METAL 10' FROM E.P.) (27.13)

Control of Access: 1–None, 2–Partial, 3–Full: COUNTY TO STATE (TRANSFER PENDING) (26.39) COUNTY

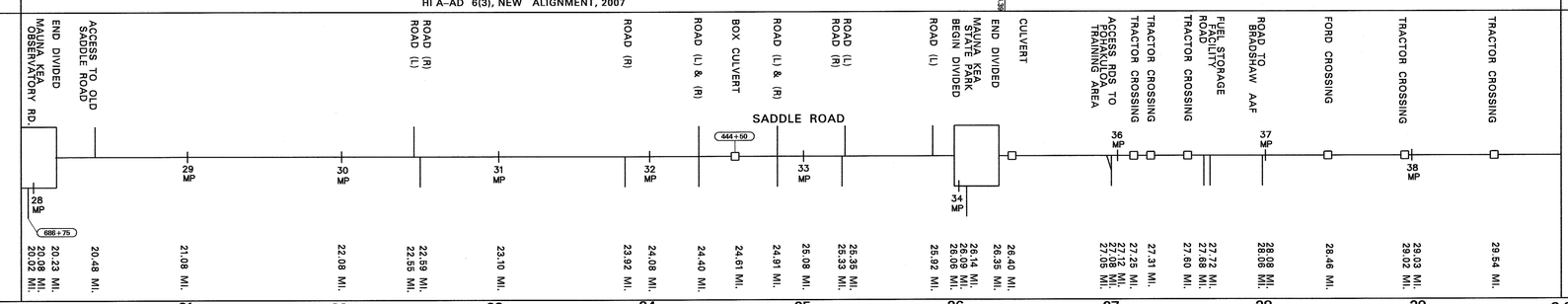
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)

Project No., Type of Construction, and Year Constructed: 0+00 (26.39)

Project No., Type of Construction, and Year Constructed: HI A–AD 6(3), NEW ALIGNMENT, 2007

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided

Shoulder: Width and Type	8' AC	8' AC; 8' AC FIREBREAK (22.27–26.33); 8' AC	8' AC; 6' GRAVEL (26.87); 5' GRASS/GRAVEL
Pavement: Width and Type	12' AC	24' AC	12' AC; (22' AC); 20' BP (29.95); (22' BP)
Shoulder: Width and Type	0	8' AC; 8' AC FIREBREAK (22.27–26.33); 8' AC	0; 4' GRS/GRV (26.59–26.87); 5' GRASS/GRAVEL
Median: Width and Type	(0'–20' PAINTED AC)	0'–20' PAINTED AC (20.23–26.06–26.35)	
Median Barriers:		(4' WIRE FENCE SEPERATING SHLDR. FROM FIREBREAK)	
Shoulder: Width and Type	0	0	
Pavement: Width and Type	12' AC	12' AC	
Shoulder: Width and Type	8' AC	8' AC; 8' AC (26.21–26.39)	8' AC

(—×—×— = 4' FIREBREAK FENCE)

Number of Traffic Lanes: 2–12' (26.21) (2–11') 2–10' (29.95) (22'BP)

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 1–12' (L) TL (20.05–20.35)

(Right Side): 1–12' (L) TL (26.28–26.56); 2 1–12' (R) TL (20.07–26.59)

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: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: FLAT (20.17) ROLLING (23.17–26.56) FLAT (27.85)

Speed: 1–Design, 2–Posted: 45 MPH (2) (20.05) 55 MPH (1) 45 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0200 02000; B71 0200 02637 (27.06); B71 0200 02706

HPMS Sections – AADT 2009: 816; 682; 1,700

HPMS Sections – AADT 2008: 814; 681 (26.37); 813

HPMS Sections – AADT 2007: (787) (20.04); 831; 695 (26.39); 830

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (6)

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.

ROAD INVENTORY
HAWAII RTE 200
SADDLE ROAD

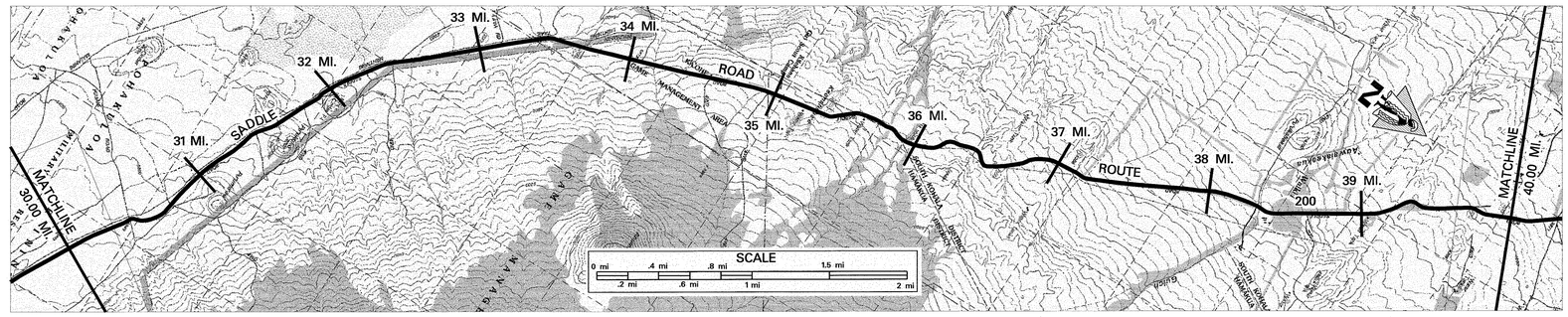
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 44.77 miles
- a. Survey Length: 44.77 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 (4' at 38.38; 16' at 38.38)

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: 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 (34.41–38.38; 38.38–39.44)

Control of Access: 1–None, 2–Partial, 3–Full: NONE (35.08–39.44)

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

Road Diagram

* MP = Milepost Signage

CONTINUED FROM SHEET #3

39 MP — TRACTOR CROSSING (30.11 MI.)
TRACTOR CROSSING (30.45 MI.)
40 MP (30.75 MI.)
41 MP (31.15 MI.)
BEGIN OLD SR 201 POLE #17, POWER (32.16 MI.)
42 MP (32.40 MI.)
TRACTOR CROSSING (33.17 MI.)
CULVERT (33.08 MI.)
CULVERT (33.53 MI.)
CULVERT (33.66 MI.)
CULVERT (33.77 MI.)
43 MP (34.19 MI.)
CULVERT (34.17 MI.)
KILOHANA HUNTER CHECKING STATION (34.56 MI.)
44 MP (35.08 MI.)
RD. TO KILOHANA GIRL SCOUT CAMP (35.02 MI.)
SOUTH KOHALA/ HAMAKUA BOUNDRY (35.51 MI.)
45 MP (35.81 MI.)
CULVERT (36.13 MI.)
CULVERT (36.46 MI.)
46 MP (36.92 MI.)
CULVERT (37.15 MI.)
47 MP (38.07 MI.)
WAKI DEVELOPMENT (38.36 MI.)
CULVERT (38.30 MI.)
ROAD (38.53 MI.)
ROAD (38.65 MI.)
48 MP (38.92 MI.)
POWER SUB STATION (39.07 MI.)
WATER WELL (39.47 MI.)
WATER TANK (39.64 MI.)
PROPOSED WORLD'S DEEPEST (39.68 MI.)
ROAD (39.74 MI.)
END PROPOSED ROAD (39.84 MI.)
CULVERT (39.84 MI.)

SADDLE ROAD

CONTINUED ON SHEET #5

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided — Shoulder: Width and Type: 5' GRASS / GRAVEL; 3'–6' GRASS

Pavement: Width and Type: 22' BP (30.00); 20' BP (31.00); 18' BP (31.80); 20' BP (32.40); 20' AC; (10' AC) 20' AC

Shoulder: Width and Type: 5' GRASS / GRAVEL; 3'–6' GRASS; 0

Median: Width and Type: (0–10' PAINTED AC) (38.68–39.74); 0

Median Barriers:

Shoulder: Width and Type

Pavement: Width and Type: (10' AC)

Shoulder: Width and Type: (3'–6' GRASS)

Number of Traffic Lanes: 2–11' (30.00); 2–10' (31.00); 2–9' (31.80); 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: (STEEL ON STEEL) 38.38–38.53; 38.65–38.92

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: FLAT (30.00); ROLLING

Speed: 1–Design, 2–Posted: 45 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0200 02706

HPMS Sections – AADT 2009: 1,700

HPMS Sections – AADT 2008: 813

HPMS Sections – AADT 2007: 830

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (6)

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.

ROAD INVENTORY
HAWAII RTE 200
SADDLE ROAD

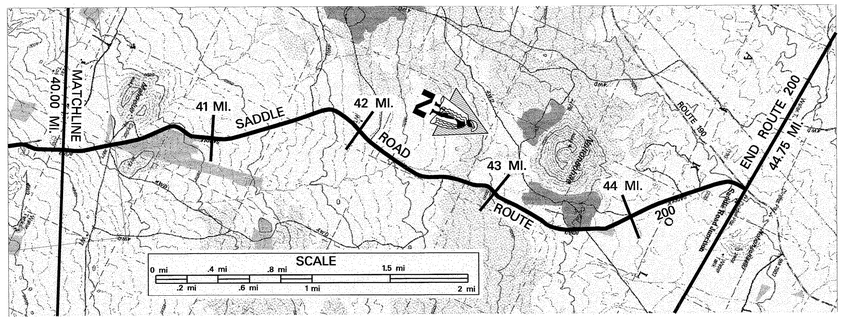
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 44.77 miles
- a. Survey Length: 44.77 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: SLAB 1957 HS-20 (42.37); SLAB 1957 HS-20 (42.96)

Structure Carrying Road — Vertical Clearance: 21' (42.37); 39' (42.96)

Structure Carrying Road — Horizontal Clearance: 22' (42.37); 24' (42.96)

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: WIRE ON WOOD (40.85–42.71); WIRE ON WOOD (43.08–44.05)

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

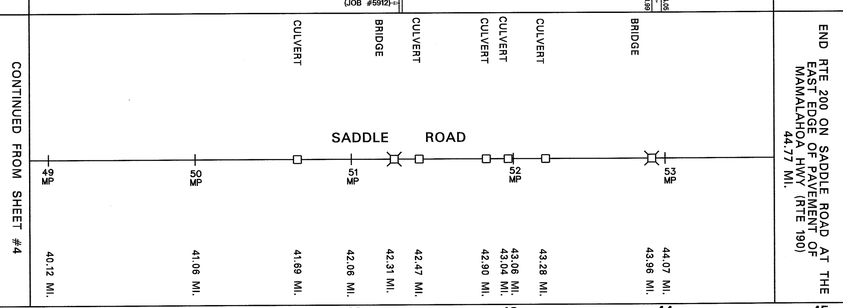
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): COUNTY

Project No., Type of Construction, and Year Constructed: (JOB #5912) (42.89–43.08); (JOB #5912) (43.08–44.05)

Project No., Type of Construction, and Year Constructed

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

40 41 42 43 44 45 46 47 48 49 50

Divided Highway — Undivided — Shoulder: Width and Type: 3'–6' GRASS

Pavement: Width and Type: 20' AC

Shoulder: Width and Type: 3'–6' GRASS; (8' DIRT) (43.79–43.93); 3'–6' GRASS

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: (STEEL ON STEEL) (42.37–42.96)

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

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

Speed: 1–Design, 2–Posted: 45 MPH (2); (NOT POSTED) (44.75–44.77)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0200 02706 (44.77)

HPMS Sectiona – AADT 2009: 1,700

HPMS Sectiona – AADT 2008: 813

HPMS Sectiona – AADT 2007: 830

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (6)

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.

ROAD INVENTORY
HAWAII RTE 220
HONOMU RD., 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

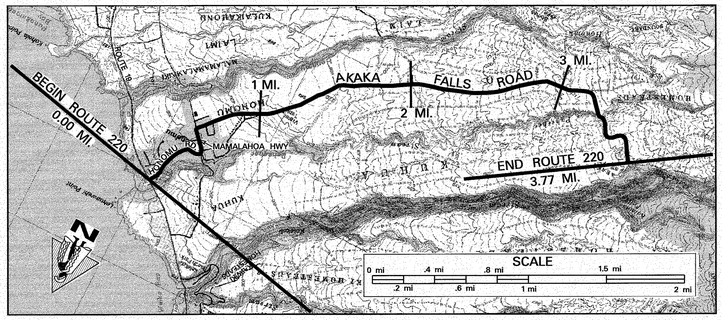
Total Route Length: 3.77 miles

a. **Survey Length:** 3.77 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 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' (0.43) | 80' (0.61) | 40' (1.09) | 80'

Available Right of Way Width (Needs Study): RESIDENTIAL AREA (0.09) | 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): STA 8+70

Project No., Type of Construction, and Year Constructed: STA 21+87.59 — 220A–01–03M RESURF 2005 (0.98) | 220A–01–02M, (R), 2004

Project No., Type of Construction, and Year Constructed: 220A–01–90M, 1990

Road Diagram

* MP = Milepost Signage

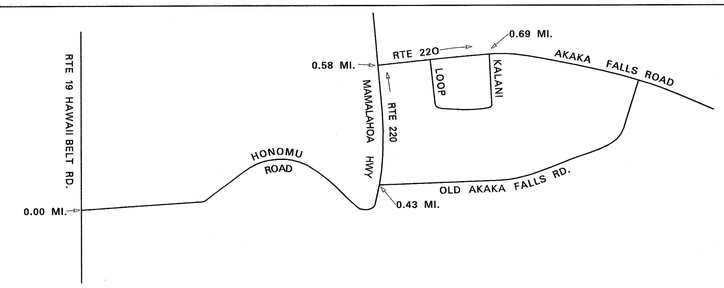
BEGIN RTE 220 ON HONOMU ROAD AT WEST EDGE OF PAVEMENT OF HAWAII BELT ROAD (RTE 19). 0.00 MI.

PUA ST. 0.01 MI.
POST OFFICE RDS. 0.16 MI.
HWY 0.24 MI.
OLD MAMALAHOA 0.26 MI.
OLD AKAKA FALLS RD. 0.42 MI.
OLD MAMALAHOA 0.43 MI.
KALANI LOOP 0.68 MI.
ROAD 0.69 MI.
ROAD 0.74 MI.
OLD AKAKA FALLS RD. 0.89 MI.
WATER TANK ELEV. 800' MARKER 1.00 MI.
1.12 MI.
1.15 MI.
OLD CAMP ROAD 2.00 MI.
PAHEEHEE HAUKA BRIDGE #3 3.03 MI.
3.18 MI.
3.36 MI.
3.77 MI.

0 MP, 1 MP, 2 MP, 3 MP, 3.75 MP

HONOMU ROAD — MAMALAHOA HWY — AKAKA FALLS ROAD

END RTE 220 ON AKAKA FALLS ROAD AT THE ENTRANCE TO AKAKA FALLS PARKING LOT (@ AKAKA FALLS SIGN). 3.77 MI.



SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided

- **Shoulder: Width and Type**: 4' AC (0.24) | 5' AC (0.42) | 4' AC (0.68) | 4' AC (0.89) | 4' AC
- **Pavement: Width and Type**: 22' AC (0.43) | 24' AC (3.21) | 22' AC
- **Shoulder: Width and Type**: 4' AC (0.42) | GRASS (0.68) | 4' AC

Divided Highway

- **Median: Width and Type**
- **Median Barriers:**
- **Shoulder: Width and Type**
- **Pavement: Width and Type**
- **Shoulder: Width and Type**

Number of Traffic Lanes: 2–11' (0.42) | 2–11' (0.68) | 2–12' (3.21) | 2–11'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 8' PARKING LANES (0.43)

(Right Side): (0.49) (0.68)

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): (0.36) (3.61)

Protective Devices: Type, Location and Number ALL GUARDRAILS ARE METAL ON METAL: (0.14) (0.24) (0.28) (0.35) (3.29) (3.39) (3.47) (3.49) (3.56) (3.72)

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (1.20) (3.14)

Speed: 1–Design, 2–Posted: 25 MPH (2) (1.08) | (30 MPH (1)) | 45 MPH (1) / 45 MPH (2) | (35 MPH (1)) | 25 MPH (1) / 25 MPH (1) (3.25)

Intersection Control Devices: Type, Location and Cycle Timing: (B71 0220 00042)

Traffic Stations (Current Year): B71 0220 00000 | B71 0220 00058 (0.68) | B71 0220 00098

HPMS Sections – AADT 2009: 1,786 (0.42) | 1,786 (0.68) | 1,786 (0.98) | 1,786

HPMS Sections – AADT 2008: 1,782 | 1,782 | 1,782 (3.77)

HPMS Sections – AADT 2007: 1,820 (0.98) | 1,820 (3.03) | 1,820

DOD Sections

Census Tracts

Functional Classification: MAJOR COLLECTOR (7)

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

Previous Projects: Project No., Date and Limits

3.62 — (STP–0100(31), 1994)

(220A–01–72, 1972 (R)) — 0.48 — (S–246–1, 1950) — 220A–01–79M, 1978 (R); PMS–0100(8), UNIT 5

0.43 CTY. | 0.59 — 1.11 — (220A–02–72, 1973) — A–220–01–64, 1965 — 2.69 COUNTY 3.07 — A–22–01–61, 1961 — 3.62 CTY.

(S–246–1, 1950) 0+16 0+10 27+50 (65+00) 21+50 37+00 7+50

SCALE: (In Miles) 2" = 1 mile

Date Released	
SEPT 05, DB	
Revised	
5/06	G.N.
9/10	G.N.

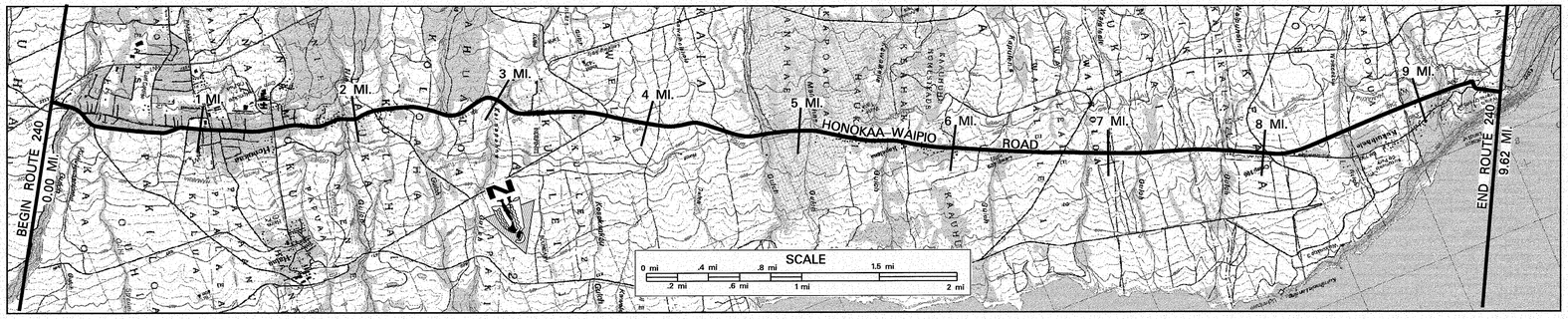
ROAD INVENTORY
HAWAII RTE 240
HONOKAA–WAIPIO RD. & MAMANE ST.

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: 9.62 miles
- a. Survey Length: 9.62 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'); PRESTRESSED CONCRETE GIRDER 1967, HS–20 (51', 154', 206'); PRESTRESSED CONCRTETE BEAM 1971 HS–20 1972 (115', 67'); PRESTRESSED CONCREETE GIRDER 1979, HS–20–44 (100')

Vertical Clearance: 0.21, 4.81, 5.01, 5.55, 6.84, 7.73, 8.17

Horizontal Clearance: 24', 28', 36', 36', 36', 36', 28', 36', 36', 36'

Structure Over Road

Vertical Clearance: 8.70, 8.81, (170'–200'), 9.54, 9.48

Horizontal Clearance: 8.70, 8.81, 100'/110', 100'/110', 140', 9.54, 9.27, 1/1, 90'/100', 70'

Right of Way Width (min.–max.) if varies: 80'–235', 0.32, 40'–60', 0.92, 80'–100', 2.01, 80'–138', 3.69, 80'–174', 5.25, 80'–110', 5.75, 80'–215', 8.02, 90', 8.23, 90'–130', 8.70, 100'/110', 8.81, 100'/110', 140', 9.54, 100'–130', 9.27, 90'/100', 70'

Available Right of Way Width (Needs Study): (1000' CLEAR 15'–20' FROM E.P.); 0.16 SUGAR CANE (L) RESIDENTIAL (R); 0.98 RESIDENTIAL / TOWN; 2.27 1000' CLEAR – SUGAR CANE 15'–20' FROM E.P.; 3.13 RES. AREA; 3.35 1000' CLEAR – SUGAR CANE 15'–25' FROM E.P.; 4.53 TREES & BUSHES; 5.20 RESIDENTIAL AREA; 6.00 1000' CLEAR – SUGAR CANE 25' FROM E.P.; 7.71 RESIDENTIAL AREA; 8.14 RESIDENTIAL WITH SUGAR CANE ON SIDE; 9.21 TREES & BUSHES; 9.48 RES. AREA

Right of Way Fence: Type – Right and Left: 0.83 (CHAINLINK FENCE)

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

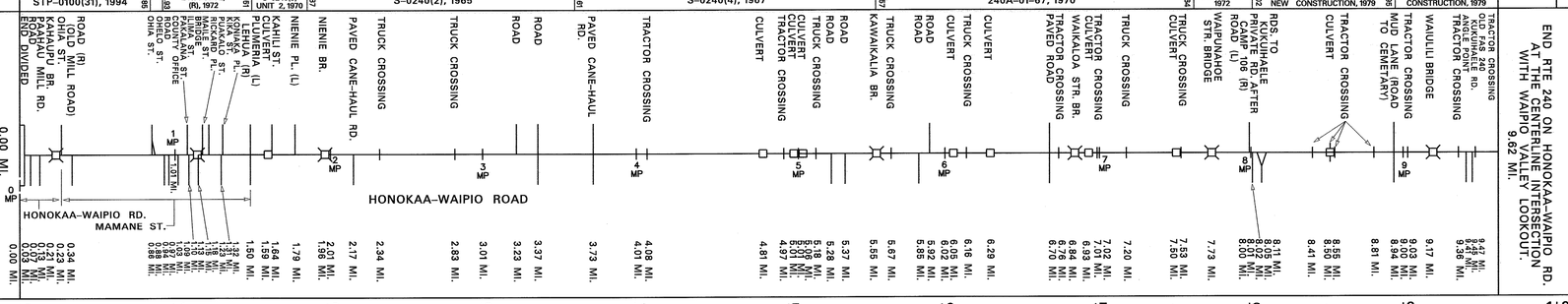
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE 0.99 — COUNTY TO STATE PHASE 2 — 8.01 STATE 9.41 (COUNTY)

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 (0.85); 240A–01–72, (R), 1972 (0.93); S–0240(3) UNIT 2, 1970 (1.61); S–0240(2), 1965 (1.87); S–0240(4), 1967 (3.61); 240A–01–67, 1970 (5.57); 240A–02–71, 1972 (7.84); 240A–01–71, UNIT 1, NEW CONSTRUCTION, 1979 (8.02); 240A–01–71, UNIT 2, NEW CONSTRUCTION, 1979 (8.95)

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type: 3'–6' AC

Pavement: Width and Type: 24' AC (43' AC); 32' AC; 40' AC; 51' AC; 40' AC (52' AC); 6' AC; 24' AC; 7' AC; 6' AC

Shoulder: Width and Type: 3'–6' AC; 8' GRS.; 0'; (3'–6' AC); 0'; 7' AC; 7' AC; 6' AC

Divided Highway — Median

Median: Width and Type: (6' GRV.); 0'

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): (2–17.5'); 2–12'; 2 17.5'; (2–18')

(Right Side): 8' PARKING LANE; 8' PARKING LANE

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

Sidewalk: Width and Type (Right and Left): 3'–4' CONC. SIDEWALK; (3'–4' CONC. SIDEWALK)

Curb and/or Gutter: Type (Right and Left): CONC. CURB (L)&(R)

Protective Devices: Type, Location and Number

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative: +7, +1, +2, +4, +2, +1, –1, –2, –2

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): (B71 0240 00000); B71 0240 00023; B71 0240 00110; B71 0240 00150; B71 0240 00373; B71 0240 00811

HPMS Sections – AADT 2009: 4,165; 5,156; 5,156; 2,581; 1,982; 1,982

HPMS Sections – AADT 2008: 4,157; 5,146; 5,146; 2,576; 1,978; 1,978

HPMS Sections – AADT 2007: 4,245; 5,255; 2,630; 2,020; 2,020; 2,020; 2,020; 2,020

DOD Sections

Census Tracts

Functional Classification: MAJOR COLLECTOR (7)

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, 1972, (R); S–0240(3) U–2, 1970; S–0240(3), UNIT 1, 1966; S–0240(2) 1966; S–0240(4) UNIT 2, 1966; 240A–01–67, 1970; COUNTY

SCALE: (In Miles) 2" = 1 mile

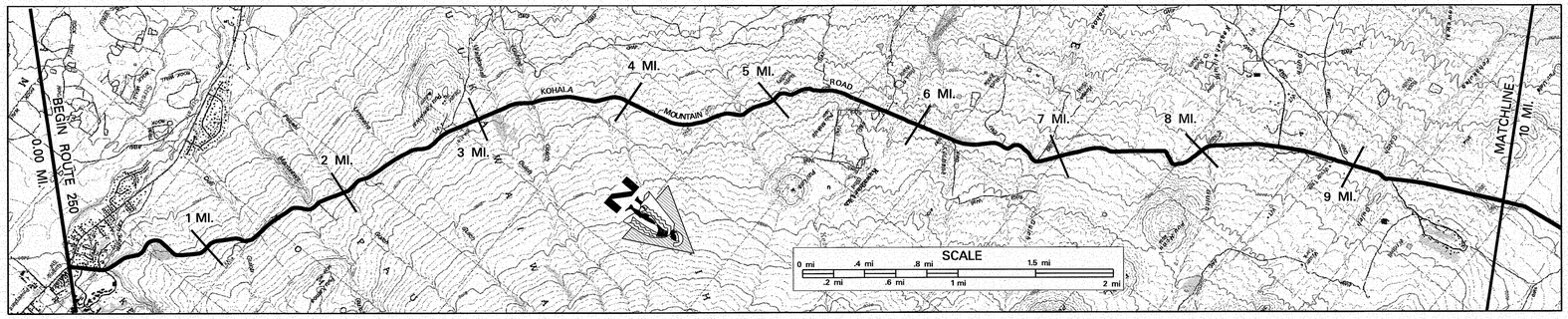
Date Released
OCT. 05, DB
Revised
7/06 DB
1/10 DB

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: 19.28 miles
a. **Survey Length:** 19.28 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 (8.82)
- Vertical Clearance: 36'; 18'
- Horizontal Clearance

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) if varies: (Stonewall) 60'; 80'–120'; 80'–130'; 80'–145'; 80'; Estimated 80'–140'

Available Right of Way Width (Needs Study): Mountainous Ranch / Pastureland with Trees; Heavy Trees; Mountainous Pasture with Trees (1000' Clear most of the way)

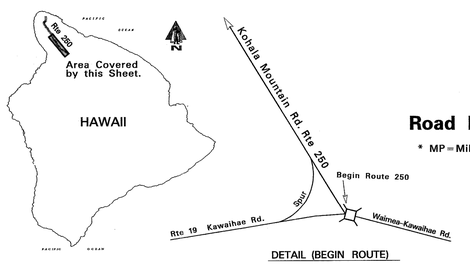
Right of Way Fence: Type – Right and Left W/W=Wire on Wood, E.P.=from Edge of Pavement: W/W 50' E.P.; W/W 30' E.P.; W/W 20' E.P.; W/W 25' E.P.; W/W 10' E.P.; W/W 20' E.P.; Wood Posts 15' E.P.; Wire on Wooden Posts 10'–50' from Edge of Pavement

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: (250A-01-91M (R) 1992)

Project No., Type of Construction, and Year Constructed: 250A–01–90M (R) 1991; STP–0100 (31), 1994 Guardrail Improv.; 250A–01–91M (R) 1992; 250A–01–92M (R) 1993



DETAIL (BEGIN ROUTE)

Road Diagram
* MP = Milepost Signage

BEGIN ROUTE 250 ON KOHALA MOUNTAIN ROAD AT THE NORTHWEST EDGE OF PAV'T OF KAWAIHAE ROAD. (RTE 19) (SEE DETAIL)

KOHALA MOUNTAIN ROAD — 0.00 mi.; Spur 0.00 mi.; 0.02 mi.; 0.08 mi.; 0.12 mi.; 0.17 mi.; 0.24 mi.; 0.31 mi.; 0.43 mi.; 1.08 mi.; 1.43 mi.; 2.16 mi.; 2.44 mi.; 3.44 mi.; 4.44 mi.; 5.07 mi.; 5.35 mi.; 5.44 mi.; 5.90 mi.; 6.32 mi.; 6.45 mi.; 6.82 mi.; 7.45 mi.; 8.06 mi.; 8.24 mi.; 8.46 mi.; 8.60 mi.; 9.21 mi.; 9.26 mi.; 9.49 mi.; 9.63 mi.; 9.78 mi.; 9.80 mi.

Spur: Kawaihae Rd.; Road to Lanikapu Estates; Roads to Hawaii Prep. Academy; Culvert; 3000' Elev. Sign; Road to Com. Sta.; Lookout; Honokoa Bridge; 3564' Crest; Kawaihae Uka Bridge; Culvert "District of North Kohala" sign; Road to Kohala Ranch; Kahua Ranch Road Culvert; Culvert; 3000' Elev. Sign

MP 3, 4, 5, 6, 7, 8, 9, 10, 11, 12; KM 5

CONTINUED ON SHEET #2.

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided
- Shoulder: Width and Type: 1' AC/ 6' Grs.; 2' AC; 2' AC / 4' Grs.; 2' AC / 8' Grs.; 2' AC / 2' Grs.; 6'–10' AC; 2' AC / 4' Grs.; 2' AC / 6' Grs.
- Pavement: Width and Type: (4' AC / 2' Grv.); 20' AC; 18' AC; 24' AC; 18' AC (23' AC); 25' AC; 20' AC; 18' AC; 20' AC
- Shoulder: Width and Type: 4' AC / 2' Dirt; 2' AC / 2' Grs.; 6'–8' AC; 2' AC / 2' Grs.; 2' AC/ 8' Grv.; 2' AC / 4' Grs.; 6' AC; 2' AC / 2' Grs.

Divided Highway — Median
- Median: Width and Type
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

Number of Traffic Lanes: 2–10'; 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)

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 otherwise noted. M/C=Metal Rails on Concrete Posts.

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: Small Urban (2); Rural (1)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: Rolling; Mountainous; Rolling

Speed: 1–Design, 2–Posted: 25 MPH (Not Posted); 35 MPH

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0250 00000; B71 0250 00177; B71 0250 00850

HPMS Sections – AADT 2009: 2,282; 2,183; 2,183

HPMS Sections – AADT 2008: 2,277; 2,179; 2,179

HPMS Sections – AADT 2007: 2,325; 2,225

DOD Sections

Census Tracts

Functional Classification: Major Collector (17); Major Collector (7)

National Highway System (NHS): Not On NHS (0)

Previous Projects: Project No., Date and Limits: 250A-01-73, 1973; FAP E-11A 1932; (FAP E-11A, 1933); S-239(1) 1954, 56; (250A-01-72 (R), 1972); 250A-01-75M, 1975; (S-0250 (2), 1961); S-0250 (1), 1956; 250A-01-91M (R) 1992; 250A-01-72 (R) 1972; 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.

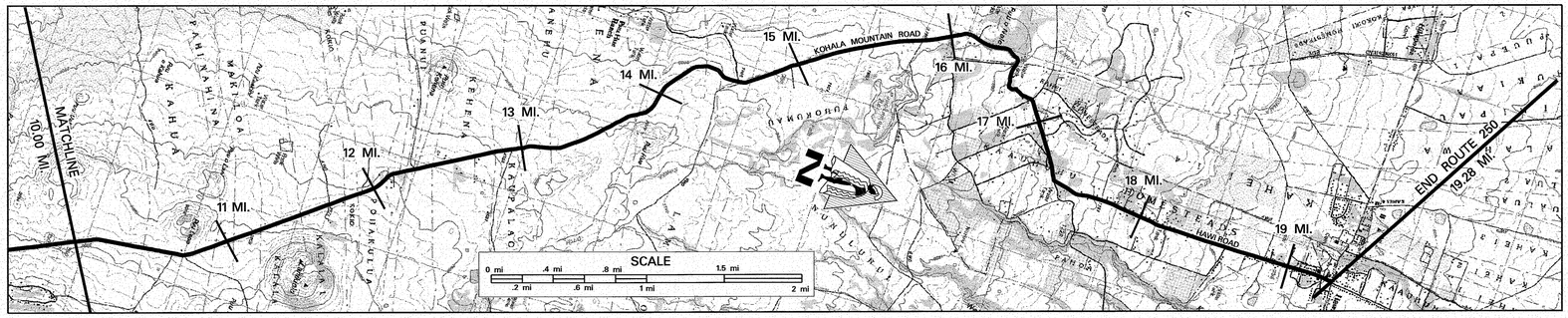
ROAD INVENTORY
HAWAII RTE. 250
KOHALA MOUNTAIN ROAD AND HAWI ROAD

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: 19.28 miles
a. Survey Length: 19.28 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'; 14.96 – 17.38: Estimated 80'-100'

Available Right of Way Width (Needs Study): 13.41 – 13.88: Mountainous, Pasture w/ Trees (1000' Clear, Most of the Way); 16.18 – 16.54; 16.82 – 16.73; 16.82 – 19.71

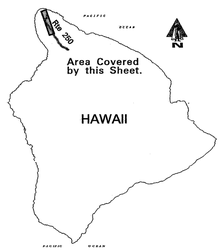
Right of Way Fence: Type – Right and Left (W/W=Wire on Wood, E.P.=from Edge of Pavement): W/W 20' E.P.; W/W 15'-50' E.P.; W/W 15' E.P.; W/W 15' E.P.; W/W 12' E.P.; W/W 20' E.P.; W/W 10' E.P.; W/W 12' E.P.

Control of Access: 1–None, 2–Partial, 3–Full: 10.49 – 15.36: None; 15.36 – 16.09; 16.09 – 16.68; 17.38 – 18.13; 18.13 – 19.71

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

Project No., Type of Construction, and Year Constructed: STA 220+00 – STA 125+50: 250A-01-02M, Resurface 2005; 16.40 – 17.38: 250A-01-89M (R) 1989

Project No., Type of Construction, and Year Constructed: 250A-01-92M,(R) 1993; 10.43 – 16.40: 250A-01-96M, Resurface 2000; 17.38 – 19.28: 250A-01-91M (R) 1992



Road Diagram
* MP=Milepost Signage

CONTINUED FROM SHEET #1

Culvert; Culvert; Ranch Road; Culvert; 2500' Elev. Sign; Driveway; Culvert; Paved Road; Rd. to FAA Station; Paved Road; Puu Mamo Drive; Kam. Preschool Ent. (L); Bears Road (L); Ski Road (R); Kainoa Road; Kynnersly Road; Kauuhu Road; Future Development; Paved Road; Paved Road; Paved Road (L)

KOHALA MOUNTAIN ROAD — HAWI ROAD

STA 218+80; STA 119+50; angle point

13 MP (10.50 mi., 10.45 mi.); 14 MP (11.45 mi.); 11.67 mi.; 11.80 mi.; 15 MP (12.48 mi., 12.46 mi.); 12.65 mi.; 12.82 mi.; 16 MP (13.45 mi.); 17 MP (14.45 mi., 14.59 mi.); 18 MP 15 KM (15.46 mi.); 16.17 mi.; 19 MP (16.52 mi., 16.46 mi.); 16.90 mi.; 16.85 mi.; 17.09 mi.; 20 MP (17.45 mi., 17.38 mi., 17.29 mi.); 18.60 mi.; 18.55 mi.; 18.45 mi.; 18.87 mi.; 21 MP (19.10 mi.); 21.84 MP (19.28 mi.)

END ROUTE 250 ON HAWI ROAD AT THE SOUTH EDGE OF PAVEMENT OF AKONI PULE HWY. (RTE 270) 19.28 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided
- Shoulder: Width and Type: 2' AC/6' Grs.; 10.43 – 11.50: 1' AC / 4' Grs.; 11.50 – 12.78: 1' AC / 2' Grs.; 12.78 – 14.39: 2' AC / 2' Grs.; 14.39 – 14.66: 2' AC/6' Grs.; 14.66 – 15.83: 1' AC / 2' Grs.; 15.83 – 16.60: 2' AC / 4' Grs.; 16.60 – 17.38: 2' AC / 6' Grs.; 17.38 – 19.36: 0; 19.36 – 19.28: 6' AC
- Pavement: Width and Type: 20' AC; 16.84 – 17.41: 22' AC; 17.41 – 19.28: 20' AC
- Shoulder: Width and Type: 2' AC / 2' Grs.; 11.26 – 11.88: 6' Grs.; 11.88 – 13.05: 4' Grs.; 13.05 – 17.08: 2' AC / 4' Grs.; 17.08 – 17.38: 2' AC/10' Grs.; 17.38 – 19.28: 2' Grass

Divided Highway – Divided
- Median: Width and Type: 19.36 – 19.28: (4' AC) – 1' – 2' – (15'-20' AC)
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

Number of Traffic Lanes: 2–10'; 16.84 – 17.41: 2–11'; 17.41 – 19.28: 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 (Metal Rail on Metal Post unless otherwise noted. M/C=Metal Rail on Concrete Post.): 16.87 – 17.00: M/C; 17.00 – 17.29: M/C; 17.29 – 17.38: M/C; 17.38 – 17.41: M/C; 16.87 – 16.96: M/C; 16.96 – 16.98: M/C; 17.27 – 17.38: M/C

Illumination: Type, Location and Number

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: Rural (1)

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

Speed: 1–Design, 2–Posted: 35 MPH; 18.32 – 19.28: 25 MPH

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0250 00850; 17.38 – 18.55: B71 0250 01738; 18.55 – 19.28: B71 0250 01855

HPMS Sections – AADT 2009: 2,183; 2,973; 4,067

HPMS Sections – AADT 2008: 2,179; 17.38 – 19.28: 2,967; 4,059

HPMS Sections – AADT 2007: 2,225; 3,030; 17.09 – 18.87: 4,145

DOD Sections

Census Tracts

Functional Classification: Major Collector (7)

National Highway System (NHS): Not On NHS (0)

Previous Projects: Project No., Date and Limits: 10.19 – 10.55: (250A-01-73 1973); (250A-03-72 (R) 1972); 10.43 – 12.83: 250-01-86M, (Resurface) 1986; 250A-01-86M, 1986 (R); 250A-01-74, 1974; 13.08 – 13.46: 250A-01-89M (R) 1989; S239(1), 1956; 16.84 – 17.38: S-239(1), 1954; 17.38 – 19.28: 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.

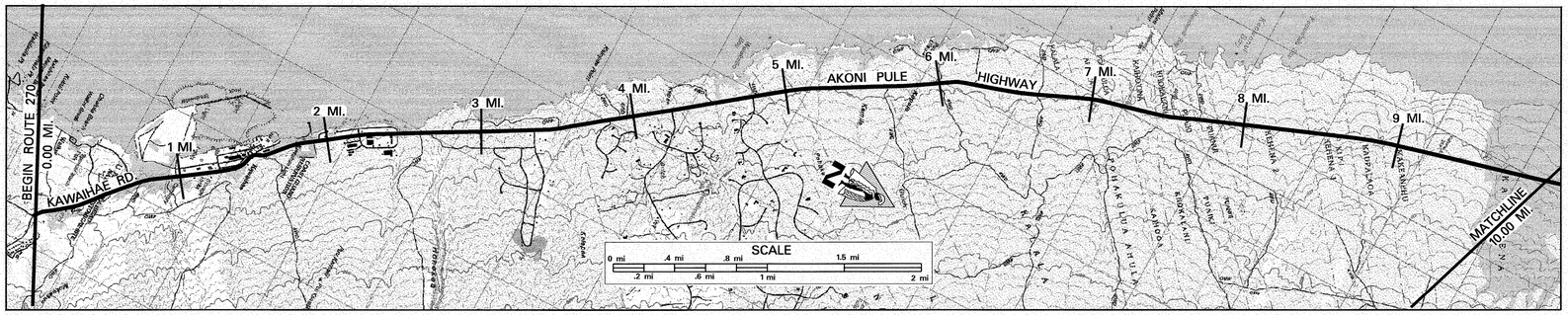
ROAD INVENTORY
HAWAII RTE 270
KAWAIHAE ROAD–AKONI PULE HWY

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: 27.02 miles
a. Survey Length: 27.02 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.) — 1.50 — 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

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)

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; STP–0270(13), 1998, (SHLDR. IMPRV.); 270A–01–83M, 1983, (R)

Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP = Milepost Signage

BEGIN ROUTE 270 ON KAWAIHAE ROAD AT THE NORTHWEST EDGE OF PAVT. OF QUEEN KAAHUMANU HIGHWAY (RTE 19). 0.00 MI.

END DIVIDED HWY | 68+00 | BEGIN DIVIDED | END DIVIDED | PUUKOHOLA HEIAU & BEGIN DIVIDED | END DIVIDED | T.C. SPENCER PARK RD. | KAUWOLE BRIDGE | MAKAHUNA BRIDGE | MAKEAHUA BRIDGE | ACCESS RD. 0.76 MI. | ROAD TO HARBOR | KAWAIHAE BRIDGE | ROAD TO HARBOR | HARBOR RD. TO KAWAIHAE | CULVERT | KAEWA PL. | KALAEOLO ST. (L) MALUOKALANI ST. (R) | CULVERT | MALUOKALANI ST. (R) | HONOKOA ST. (L) CULVERT | HONOKOA BRIDGE | BEGIN DIVIDED | KALO O'LO'O DR. | BEGIN DIVIDED END DIVIDED | "DISTRICT OF KOHALA" SIGN | HOKULELE DR. (KOHALA BY THE SEA) | BEGIN DIVIDED END DIVIDED | ALA KAHUA | BEGIN DIVIDED END DIVIDED | ROAD TO KOHALA RANCH | BEGIN DIVIDED | END DIVIDED | CULVERT | CULVERT | CULVERT | CULVERT | CULVERT | CULVERT | CULVERT | CULVERT | KAHOLENA PLACE

KAWAIHAE ROAD — AKONI PULE HWY

0.10 MI. 0.03 MI. 0.19 MI. 0.27 MI. 0.32 MI. 0.43 MI. 0.53 MI. 0.59 MI. 0.68 MI. 0.74 MI. 0.85 MI. 0.91 MI. 0.97 MI. 1.10 MI. 1.26 MI. 1.36 MI. 1.42 MI. 1.50 MI. 1.58 MI. 1.72 MI. 1.94 MI. 2.08 MI. 2.20 MI. 2.30 MI. 2.44 MI. 2.64 MI. 3.13 MI. 3.10 MI. 3.34 MI. 3.63 MI. 3.66 MI. 3.81 MI. 3.84 MI. 4.13 MI. 4.08 MI. 4.25 MI. 4.49 MI. 4.64 MI. 4.77 MI. 4.99 MI. 5.10 MI. 5.26 MI. 6.10 MI. 6.23 MI. 6.55 MI. 6.68 MI. 6.94 MI. 7.10 MI. 7.61 MI. 8.04 MI. 8.10 MI. 9.10 MI. 9.19 MI. 9.73 MI.

CONTINUED ON SHEET #2

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 | 11' AC | 22' AC | 22' BP | 24' AC | 14' AC | (24' AC) 12' AC (6' SEAL COAT) | 12' AC | 24' AC 6' SEAL COAT | 12' AC | 24' AC
- Shoulder: Width and Type: (0) 7' AC | 0 | 6' AC | 0 | 7' AC | 5' CORAL | 6' SEAL COAT | 0 | 0 | 0 | 0 | 6' AC | 6' SEAL COAT
- Median: Width and Type: PAINTED AC | (10' PAINTED AC)
- Median Barriers:
- Shoulder: Width and Type: (0) 0 | 0 | 0 | 0 | 0 | 0
- Pavement: Width and Type: (11' AC) 11' AC | 11' AC | 14' AC | 12' AC | 12' AC | 12' AC
- Shoulder: Width and Type: (6' AC) 6' AC | 6' AC | 10' AC | 6' SEAL COAT | 6' SEAL COAT | 6' AC

0.17 0.53 1.51 1.52 1.91 3.13 3.61 4.08 4.13 4.49 4.64 4.76 4.99 5.51

Number of Traffic Lanes: 2–11' | (6' SEAL COAT) 2–12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 11' LNS. 12' T.Ls.
(Right Side): 1–10' (L) TL 12' T.Ls.

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 CONCRETE — M/M

Illumination: Type, Location and Number: 11 LPS | 4 MV | 1 MV | 1 MV

Curves: Degree of Curvature (Right and Left)

Grades: % Grade, Positive or Negative: 0 | –1 | +6 | –2 | +1 | +1 | +2 | +2 | +4 | –1 | –2

HOV Lanes/Contra–Flow Lanes

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: SMALL URBAN (2) | RURAL (1)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING | FLAT | (45 MPH (1)) | ROLLING (2)

Speed: 1–Design, 2–Posted: 45 MPH (2) | 35 MPH (2) | 40 MPH (1) | 55 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0270 00000 | (B71 0270 00136) | B71 0270 00150 | B71 0270 00244 | B71 0270 00313 | B71 0270 00499

HPMS Sections – AADT 2009: 7,831 | (5,554) | 5,554 | 5,554 | 5,554 | 5,554

HPMS Sections – AADT 2008: 7,815 | (5,543) | 5,543 | 5,543 | 5,543 | 5,543

HPMS Sections – AADT 2007: 7,980 | 5,660 | 5,660

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (14) | PRINCIPAL ARTERIAL (16) | MINOR ARTERIAL (6)

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) 5.00
- 27A–01–98M, 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
- STA. 0+00' STA. 22+00' STA. 603+54.46
- (HHS–027–1(1), SAFTY IMPRV.)

SCALE: (In Miles) 2" = 1 mile

Date Released
SEPT 05, D.B.

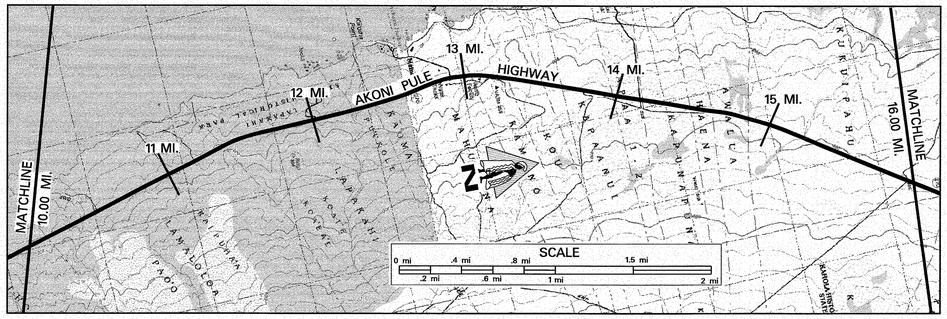
Revised	
7/06	D.B.
1/07	D.B.
9/10	D.B.

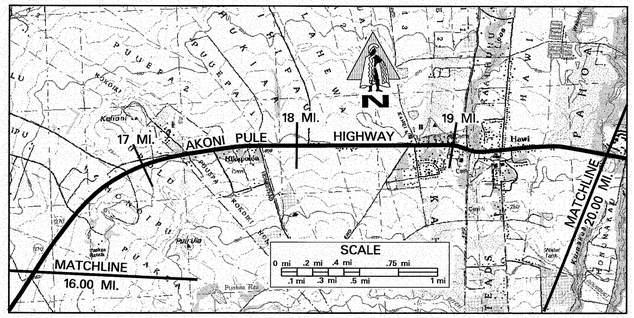
ROAD INVENTORY
HAWAII RTE 270
AKONI PULE HIGHWAY

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: 27.02 miles
a. Survey Length: 27.02 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles
*





SCALE: (In Miles) 2" = 1 mile

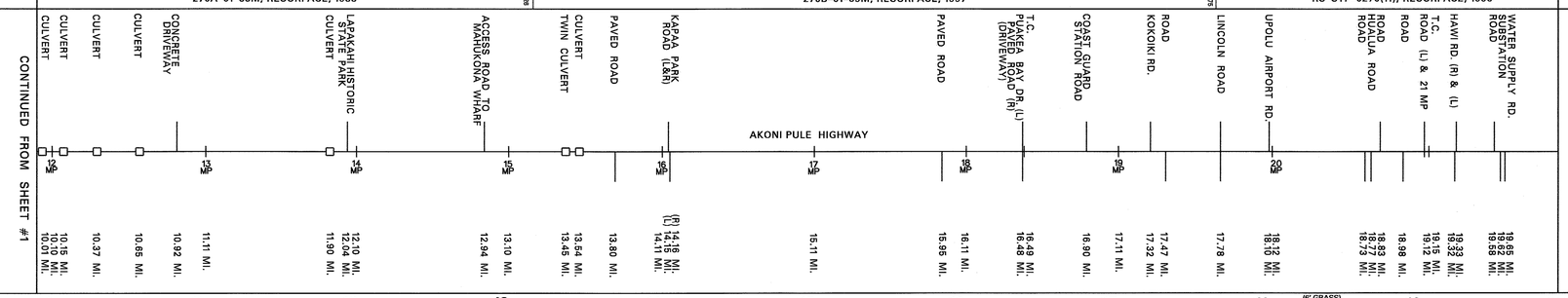
10 11 12 13 14 15 16 17 18 19 20

Maintenance Control Sections : Length and Description	270A (11.44 MI.); END 270A – BEGIN 270B AT THE CENTERLINE OF ACCESS RD. TO MAHUKONA WHARF. (12.94); 270 B (14.10 MI.)
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	80'–180' (12.94); 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 (18.95); 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 (14.22); STATE (16.10); COUNTY TO STATE PHASE 2
Project No., Type of Construction, and Year Constructed	
Project No., Type of Construction, and Year Constructed	270A–01–83M, RESURFACE, 1988 (12.94); 270B–01–69M, RESURFACE, 1997 (17.75); RS–STP–0270(11), RESURFACE, 1996

Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

10 11 12 13 14 15 16 17 18 19 20

Divided Highway – Undivided – Shoulder: Width and Type	6' SEAL COAT; 10' GRAVEL (13.24); 10' GRASS (17.78); 10' GRASS (18.38); 10' GRASS (18.47); (6' GRASS) 0 (19.14); 8' BP (19.40)
Divided Highway – Undivided – Pavement: Width and Type	24' AC; 26' AC (19.14); 26' AC (19.23); 26' AC (19.32); 24' AC
Divided Highway – Undivided – Shoulder: Width and Type	6' SEAL COAT; 10' GRAVEL (13.24); 10' GRASS (17.78); 8' GRASS (18.33); (3' GRASS) 0 (19.23); 5' BS (19.32); 8' GRASS (19.50)
Divided Highway – Undivided – Median: Width and Type	
Divided Highway – Undivided – Median Barriers:	
Divided Highway – Undivided – Shoulder: Width and Type	
Divided Highway – Undivided – Pavement: Width and Type	
Divided Highway – Undivided – 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' (19.14); 8' PARK (19.24)
(Right Side)	8' PARK (19.32); 2–12' (19.40)
Frontage Road: No. of Lanes, and Width (Right and Left)	
Sidewalk: Width and Type (Right and Left)	4' 6' BP S.W. (19.59)
Curb and/or Gutter: Type (Right and Left)	(CURB (L & R)) (19.40)
Protective Devices: Type, Location and Number	ALL METAL ON METAL; METAL RAILS ON CONC. POSTS (10.28); 10.77; 10.86; 10.95; 11.04; 11.13; 11.22; 11.31; 11.40; 11.49; 11.58; 11.67; 11.76; 11.85; 11.94; 12.03; 12.12; 12.21; 12.30; 12.39; 12.48; 12.57; 12.66; 12.75; 12.84; 12.93; 13.02; 13.11; 13.20; 13.29; 13.38; 13.47; 13.56; 13.65; 13.74; 13.83; 13.92; 14.01; 14.10; 14.19; 14.28; 14.37; 14.46; 14.55; 14.64; 14.73; 14.82; 14.91; 15.00; 15.09; 15.18; 15.27; 15.36; 15.45; 15.54; 15.63; 15.72; 15.81; 15.90; 16.22; 16.31; 16.40; 16.49; 16.58; 16.67; 16.76; 16.85; 16.94; 17.03; 17.12; 17.21; 17.30; 17.39; 17.48; 17.57; 17.66; 17.75; 17.84; 17.93; 18.02; 18.11; 18.20; 18.29; 18.38; 18.47; 18.56; 18.65; 18.74; 18.83; 18.92; 19.01; 19.10; 19.19; 19.28; 19.37; 19.46; 19.55; 19.64; 19.73; 19.82; 19.91; 20.00
Illumination: Type, Location and Number	1 M.V. (17.66); M.V. (18.72); (18.32)
Curves: Degree of Curvature (Right and Left)	
Grades: % Grade, Positive or Negative	−2 (10.28); 10.93; −1 (11.10); 12.01; −1 (11.60); 12.51; −2 (13.46); 13.67; 13.78; +4 (14.37); 16.18; −1 (16.51); 16.64; +4 (16.84); 17.46; 17.58; 17.92; +1 (18.40); 19.77; +1
HOV Lanes/Contra-Flow Lanes	
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	RURAL (1)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	ROLLING
Speed: 1–Design, 2–Posted	55 MPH (2) (MIN. 40 MPH (2)); 45 MPH (2) (16.75); 35 MPH (2) (18.75)
Intersection Control Devices: Type, Location and Cycle Timing	
Traffic Stations (Current Year)	B71 0270 00499; B71 0270 01294 (12.94); B71 0270 01648 (16.48); B71 0270 01810 (18.10); B71 0270 01932 (19.32)
HPMS Sections – AADT 2009	5,554; 5,254; 5,254; 5,451; 5,849
HPMS Sections – AADT 2008	5,543; 5,244; 5,244; 5,440 (19.32); 5,837
HPMS Sections – AADT 2007	5,660; 5,355; 5,355; 5,555; 5,960
DOD Sections	
Census Tracts	
Functional Classification	MINOR ARTERIAL (6); MAJOR COLLECTOR (7) (19.33)
National Highway System (NHS)	NOT ON NHS (0)
Previous Projects: Project No., Date and Limits	270A–01–79 SHLDR. STAB, 1980; A–270–01–62 1967, 68 (13.26) STA. L–)5 + 92.37 ^ STA. 609.04; S–0270(7) 1972, 73 (15.92) STA. 147 + 00; S–0270(3), 1972 (17.75) STA. 244 + 92.36 ^ STA. 255 + 36.71; S–203(2), 1951

SCALE: (In Miles) 2" = 1 mile

10 11 12 13 14 15 16 17 18 19 20

Date Released	
SEPT 05, D.B.	
Revised	
7/06	D.B.
9/10	D.B.

ROAD INVENTORY
HAWAII RTE 270
AKONI PULE HWY.

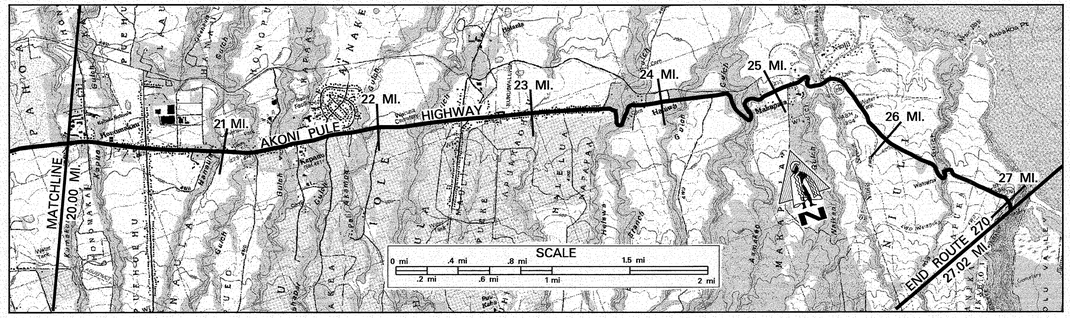
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 27.02 miles
a. Survey Length: 27.02 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 (26'); TEE BEAM 1919, ES–H10 (160'); TEE BEAM 1918, ES–H10 (80'); TEE BEAM 1918, ES–H10 (22' | 33')

Vertical Clearance: 26'; 160'; 80'; 22' | 33'

Horizontal Clearance: 36'; 18'; 18'; 18' | 18'

Structure Over Road — 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: (BR–0270(18), MAJOR SEISMIC RETROFIT, 2009); (BR–0270(18), MAJOR SEISMIC RETROFIT, 2009)

Project No., Type of Construction, and Year Constructed: RS–STP–0270(11), RESURFACE, 1996; 270B–01–93M, RESURFACE, 1994

Road Diagram

* MP = Milepost Signage

CONTINUED FROM SHEET #2

KOHALA HIGH SCHOOL RD. 20.15 MI.; PUEHUEHU PL. ROAD 20.32 MI.; KYNNERSLY RD. 20.53 MI.; HANAULA AVE (PRIVATE ROAD) 20.71 MI.; KEKOA' UHANE RD. 20.81 MI.; ELEV. 500' SIGN 20.99 MI.; KAUAI NATIONAL GUARD ARMORY PAVED ROAD 21.10 MI.; KONAMIE PLACE 21.30 MI.; KOHALA HOSPITAL 21.38 MI.; 2ND HOSPITAL ENT. 21.47 MI.; BEGIN DIVIDED 21.59 MI.; AINAKEA DR. 21.60 MI.; END DIVIDED 21.70 MI.; PAVED ROAD 21.79 MI.; PAVED ROAD 22.10 MI.; ROADS (L&R) 22.04 MI.; MAULILI RD. (R) 22.57 MI.; CULVERT 22.62 MI.; CULVERT 23.10 MI.; CULVERT 23.67 MI.; AKANA PLACE CULVERT 23.93 MI.; PRATT ROAD 23.87 MI.; WALAOHIA BRIDGE 24.15 MI.; AAMAKOA BRIDGE 24.69 MI.; CAMP KOAPAKA CULVERT 25.11 MI.; WAIKANE BRIDGE 25.10 MI.; MOLOKAI HWY 25.39 MI.; AKONI PULE HWY 25.45 MI.; BOX CULVERT 26.13 MI.; 26.50 MI.; 27.02 MI.

28.93 MP

AKONI PULE HIGHWAY

END ROUTE 270 ON AKONI PULE HWY. AT THE ENTRANCE TO POLOLU VALLEY 27.02 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type: 8' BP; 0; 10' GRS.; 6' GRS.; 8' GRASS; 0; 10' GRASS; 4' GRS.; 8' GRS.; 6' GRASS; 8' GRS.; 4' GRS.; 0; 3' GRASS; 5' GRASS; 4' GRASS

Pavement: Width and Type: 24' AC; 12' AC; 24' AC; 12' AC; 20' AC

Shoulder: Width and Type: 6' GRS; 10' GRASS; 10' DIRT; 6' GRASS; 6' GRS; 0; 6' GRS; 0; 6' GRASS; 8' GRASS; 8' BP; 6' GRASS; 3' GRS.; 4' GRS.; 6' GRS.; 0; 5' GRS.; 4' GRS.; 3' AC; 3' GRS.; 5' GRASS; 4' GRASS

Median: Width and Type: 11' PAINT

Median Barriers:

Shoulder: Width and Type: 0

Pavement: Width and Type: 12' AC

Shoulder: Width and Type: 6' GRS

Number of Traffic Lanes: 2–12'; 3–12'; 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): 6' BP SIDEWALK; 6' BP SIDEWALK; 4'; 4'

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

Protective Devices: Type, Location and Number: M/M; WOOD ON CONCRETE

Illumination: Type, Location and Number: MV; MV

Curves: Degree of Curvature (Right and Left)

Grades: % Grade, Positive or Negative: +1; +3; –2

HOV Lanes/Contra–Flow Lanes

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (1)

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

Speed: 1–Design, 2–Posted: 35 MPH (2); 55 MPH (2); 35 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0270 01932 (B71 0270 02140); B71 0270 02160; B71 0270 02257; B71 0270 02545

HPMS Sections – AADT 2009: 5,849; 5,652; 4,362; 2,581; 598

HPMS Sections – AADT 2008: 5,837; 5,641; 4,353; 2,576; 597

HPMS Sections – AADT 2007: 5,960; 5,760; 4,445; 2,630; 610

DOD Sections

Census Tracts

Functional Classification: MAJOR COLLECTOR (7)

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

Previous Projects: Project No., Date and Limits: 270B–01–77M, (R), 1977; FAS–G–3260–01–60, 1961; (270B–01–77M, (R), 1977); 270B–01–77M, (R), 1977; (HWY–H–02–70(X), (REHAB & RESURFACE), 1971); (HWY–H–02–70(X), (REHAB & RESURFACE), 1971)

COUNTY

SCALE: (In Miles) 2" = 1 mile

Date Released	
SEPT. 05, D.B.	
Revised	
7/06	D.B.
9/10	D.B.

ROAD INVENTORY
HAWAII RTE 1370
KALANIANAOLE STREET

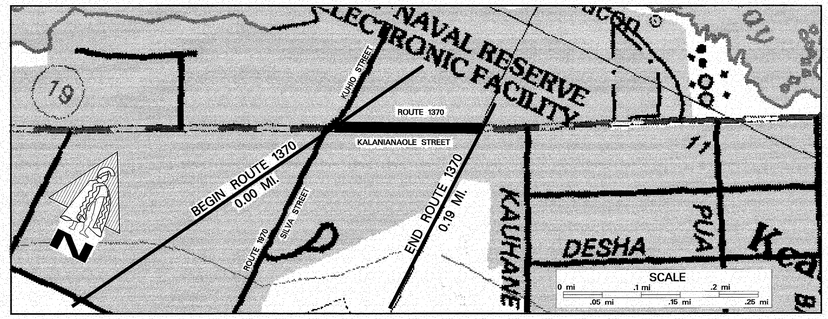
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 0.19 miles
- a. Survey Length: 0.19 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 — 0.03 0.04 (Chainlink 10' from E.P.); Chainlink 50' from E.P.

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 0.00 MI. AT THE EAST EDGE OF PAVEMENT OF KUHIO STREET AND KALANIANAOLE STREET.

Spur 0.01 mi. — Begin Divided 0.11 mi.

KALANIANAOLE STREET

END ROUTE 1370 AT WEST EDGE OF PAVEMENT OF 2ND (EAST) HILO HARBOR ENTRANCE DRIVEWAY. 0.19 MI.

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 — 4' AC
- Pavement: Width and Type — 26' AC | 11' AC
- Shoulder: Width and Type — 4' AC | 0

Divided
- Median: Width and Type — 0.11 | 0–11' PAINTED AC
- Shoulder: Width and Type — 0
- Pavement: Width and Type — 11' AC
- Shoulder: Width and Type — 4' AC

Number of Traffic Lanes — 2–13' | 2–11'

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

(Right Side) — 0.13 9' T.L.

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

Sidewalk: Width and Type (Right and Left) — 0.13 4' Conc. S.W.

Curb and/or Gutter: Type (Right and Left) — 0.03 AC Curb; 0.11 Conc. Curb; 0.03 Conc. Curb

Protective Devices: Type, Location and Number — Plastic Barrier 0.05 | 0.06; Plastic Barrier 0.15 | 0.16

Illumination: Type, Location and Number — 1 Luminaire 0.13

Curves: Degree of Curvature (Right and Left)

Superelevation (Range)

Grades: % Grade, Positive or Negative

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: — Small Urban (2)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous — 1–Flat

Speed: 1–Design, 2–Posted — 35 MPH (2) | Not Posted; 0.10 35 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year) — B71 1370 00000

HPMS Sections – AADT 2009 — 9,803

HPMS Sections – AADT 2008 — 9,783

HPMS Sections – AADT 2007 — 0.00 9,990 0.19

DOD Sections

Census Tracts

Functional Classification — Principal Arterial (14)

National Highway System (NHS) — On NHS (1)

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

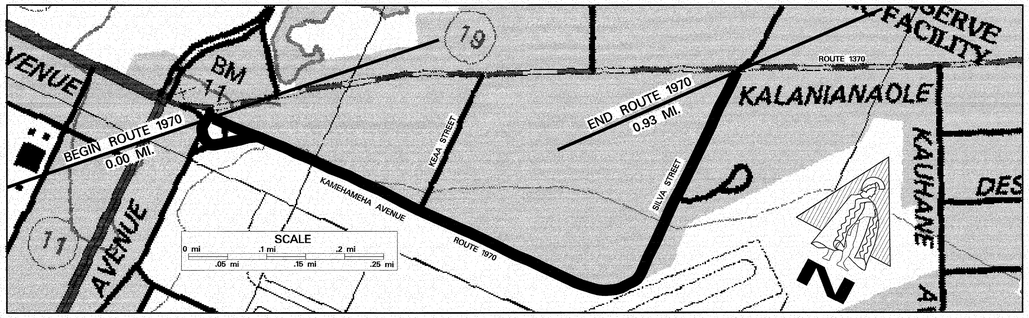
Date Released	
MAR. 05,	D.B.
Revised	
7/06	D.B.
9/10	D.B.

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: 0.93 miles
a. Survey Length: 0.93 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 — 0.13 Chain Link Fence, 19'–20' from Edge of Pavement 0.86
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 1970 AT THE SOUTHEAST EDGE OF PAVEMENT OF TRAFFIC CIRCLE ON KAMEHAMEHA AVENUE 0.00 MI.

End Divided — Paved Road — Keka Street — Paved Roads — Paved Road

KAMEHAMEHA AVENUE — SILVA STREET

0.10 mi. — 0.23 mi. — 0.33 mi. — 0.50 mi. — 0.58 mi. — 0.75 mi.

END ROUTE 1970 ON SILVA STREET AT THE SOUTH EDGE OF PAVEMENT OF KALANIANAOLE STREET ACROSS HILO HARBOR ENTRANCE. 0.93 MI.

SCALE: (In Miles) 20" = 1 mile

Divided Highway — Undivided
Shoulder: Width and Type — 2' AC; 0.08 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; 0.66; 3' AC; 0.69; 10' AC
Divided
Median: Width and Type — 50' Raised Grass; 0.05
Shoulder: Width and Type — 0
Pavement: Width and Type — 10' AC
Shoulder: Width and Type — 0; 0.06 10' Grass

Number of Traffic Lanes — 2–10'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) — 0.02
(Right Side) — 0.05
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 — 0.72 Metal Rails on Metal Posts 0.94
Illumination: Type, Location and Number — 0.69 4 Luminairs
Curves: Degree of Curvature (Right and Left)
Superelevation (Range)
Grades: % Grade, Positive or Negative
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: — Small Urban (2)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous — 1–Flat
Speed: 1–Design, 2–Posted — Not Posted; 0.11 35 MPH (2); 0.28 35 MPH (2); 25 MPH (2); 0.66; 0.75 25 MPH (2); Not Posted
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year) — B71 1970 00000; B71 1970 00058
HPMS Sections – AADT 2009 — 1,291; 399
HPMS Sections – AADT 2008 — 1,288; 0.58; 398
HPMS Sections – AADT 2007 — 1,315; 0.63; 406
DOD Sections
Census Tracts
Functional Classification — Principal Arterial (14)
National Highway System (NHS) — Not On NHS (0)
Previous Projects: Project No., Date and Limits

Date Released	
MAR. 05, D.B.	
Revised	
May 06	G.N.
9/10	G.N.

SCALE: (In Miles) 20" = 1 mile

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: 6.97 miles
- a. Survey Length: 6.97 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*

SCALE: (In Miles) 4" = 1 mile

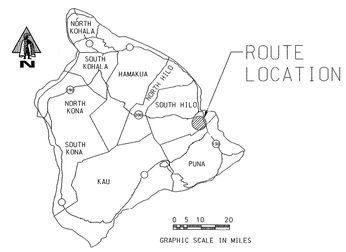
Maintenance Control Sections : Length and Description

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 / County
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

BEGIN ROUTE 2000 ON PUAINAKO STREET AT THE WEST EDGE OF PAVEMENT OF RAILROAD AVENUE.

Ohuohu St. 0.28 mi. — Shopping Center (L) 0.38 mi. — Pilipae St. (L) 0.45 mi. — Shopping Center (R) 0.49 mi. — Begin Divided 0.56 mi. — Kanoelehua Ave 0.63 mi. — End Divided 0.66 mi. — Keleia St. 0.69 mi. — Kilauea Ave & End Divided Hwy 0.72 mi. — Kincole St. 0.83 mi. — Makai St. 0.93 mi. — Lokahi St. (R) 1.00 mi. — Santos Ln. (L) 1.03 mi. — Pamala Pl. 1.10 mi. — Road 1.15 mi. — Kehaulani St. 1.16 mi. — Nohea St. 1.21 mi. — Roads to Inter. Sch. 1.29 mi. — Naniakea Street 1.31 mi. — Roads to Inter. Sch. 1.36 mi. — Anela St. 1.38 mi. — Kanoelani St. 1.40 mi. — Kawili St. (R) 1.50 mi. — Iwelani St. (L) 1.55 mi. — Pohakulani St. 1.58 mi. — Kuhilani St. 1.68 mi. — Wainohia St. 1.75 mi. — Kapulani St. 1.85 mi. — Melani St. 1.96 mi. — Komohana St. 2.05 mi. — Puainako St. Extension (Barricaded) 2.23 mi. — Road 3.12 mi. — Road 4.33 mi. — Road 4.60 mi.

PUAINAKO ST. — KOMOHANA ST. — PUAINAKO STREET EXTENSION

STA 18G 0.56 mi. — STA 18E 0.72 mi. — STA 18Y 0.83 mi. — STA 18AA 1.58 mi. — STA 18Z 2.18 mi.

CONTINUED ON SHEET 2. 5.00 mi.

SCALE: (In Miles) 4" = 1 mile

Divided Highway

	Undivided	Divided
Shoulder: Width and Type	0; 6'–8' AC (11' AC) (12' AC); 2'–4' AC; 9' AC	
Pavement: Width and Type	28' AC; 12' AC; 36' AC; 24' AC; 24' AC; 26' AC; 24' AC	
Shoulder: Width and Type	0; (11' Raised Conc.); 4'–8' AC; 8' AC; 0; 0; 9' AC	
Median: Width and Type	42' Raised Grass; 12' Painted AC (5' Painted AC); (26' Raised Grass) (12'–26' Painted AC)	
Median Barriers:		
Shoulder: Width and Type	0; 0; 0; (26' AC)	
Pavement: Width and Type	28' AC; 12' AC; 26' AC	
Shoulder: Width and Type	0; (8' AC) (1–11'); 8' AC	

Number of Traffic Lanes	4–14'; 2–12'; 1–12' 2–12'; 2–12' 2–12'; 2–12'; 2–13'; 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)	Grs. S.W.; 4' AC S.W.; 10' Conc. S.W.; 6' Conc. S.W.; 3.5' AC S.W.
Curb and/or Gutter: Type (Right and Left)	Conc. Curb; Conc. Curb; Conc. Curb; Bituminous Curb
Protective Devices: Type, Location and Number	
Illumination: Type, Location and Number	7 Sodium Vapor; 8 M.V., 5 Incandescent
Curves: Degree of Curvature (Right and Left)	
Superelevation (Range)	
Grades: % Grade, Positive or Negative	
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	Small Urban (2)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	Rolling
Speed: 1–Design, 2–Posted	30 MPH (2); 35 MPH (2) / 30 MPH (2); 35 MPH (2); 45 MPH (1)
Intersection Control Devices: Type, Location and Cycle Timing	(B71 2000 00049); 4 Phase; (B71 2000 00058); 2 Phase
Traffic Stations (Current Year)	B71 2000 00000; B71 2000 00018; B71 2000 00069; B71 2000 00100; (B71 2000 00218); B71 2000 00223
HPMS Sections – AADT 2009	8,227; 8,227; 8,236; 10,112; 8,129; (103); 103
HPMS Sections – AADT 2008	8,211; 8,211; 8,211; 8,200; 10,092; 8,113; (103); 103
HPMS Sections – AADT 2007	8,385; 8,385; 8,585; 10,305; 8,285; 105
DOD Sections	
Census Tracts	
Functional Classification	Major Collector (17)
National Highway System (NHS)	Not On NHS (0)
Previous Projects: Project No., Date and Limits	200E-01-77M, (R) 1977; (S-18(1) 1948, 49); 0.83; G-3221-01-62, 1962; 1.49

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.

SCALE: (In Miles) 4" = 1 mile

ROAD INVENTORY
HAWAII RTE 2000
PUAINAKO STREET EXTENSION

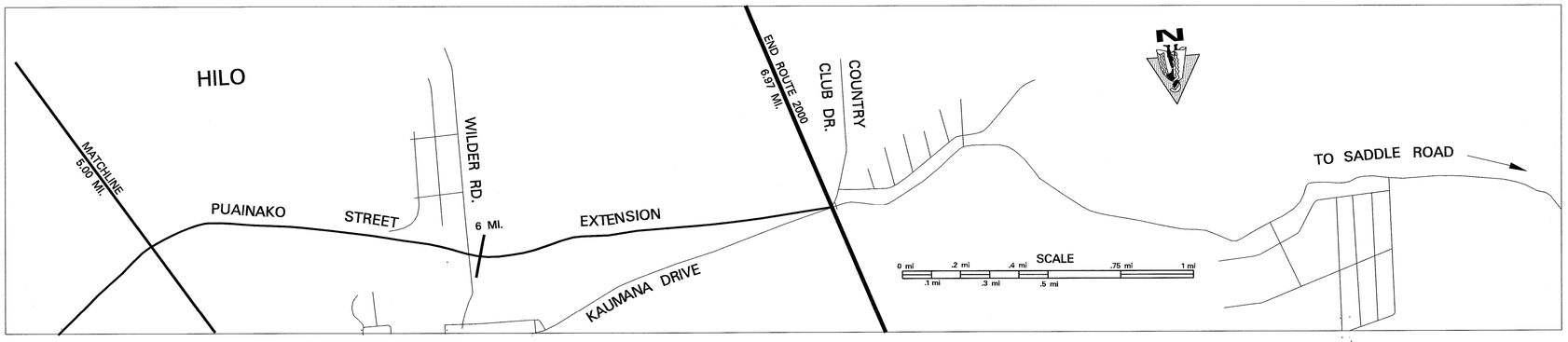
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

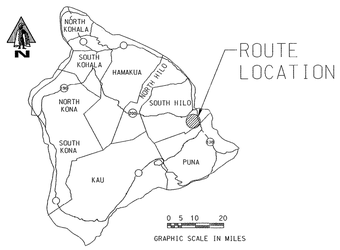
Total Route Length: 6.97 miles
- a. Survey Length: 6.97 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*



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)				County						
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

5.00 mi. CONTINUED FROM SHEET 1.

Road 5.23 mi. | Road 5.51 mi. | Wilder Road 5.98 mi. | Kaumana Drive Begin Divided 6.80 mi. | 6.87 mi.

PUAINAKO STREET EXTENSION (In-Service Nov. 04)

END ROUTE 2000 ON PUAINAKO STREET EXTENSION AT THE CENTERLINE INTERSECTION WITH COUNTRY CLUB DRIVE. 6.97 mi.

SCALE: (In Miles) 4" = 1 mile

Divided Highway – Undivided	Shoulder: Width and Type			9' AC						
	Pavement: Width and Type			24' AC			12' AC			
	Shoulder: Width and Type			9' AC			0			
Divided Highway	Median: Width and Type						12' Painted AC (6.80)			
	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)				5.91 9.98 6.09					6.87 7.98 12' (L) TL	
(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: Degree of Curvature (Right and Left)										
Superelevation (Range)										
Grades: % Grade, Positive or Negative										
Vertical Curve: Crest or Sag, Curve Limits										
Area and Development:				Small Urban (2)						
Terrain: 1–Flat, 2–Rolling, 3–Mountainous				Rolling						
Speed: 1–Design, 2–Posted				45 MPH (1)		6.80	35 MPH (1)			
Intersection Control Devices: Type, Location and Cycle Timing										
Traffic Stations (Current Year)				B71 2000 00223						
HPMS Sections – AADT 2009				103				6.97		
HPMS Sections – AADT 2008				103						
HPMS Sections – AADT 2007				105						
DOD Sections										
Census Tracts										
Functional Classification				Major Collector (17)						
National Highway System (NHS)				Not On NHS (0)						
Previous Projects: Project No., Date and Limits										

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.