STATE ROUTE SYSTEM

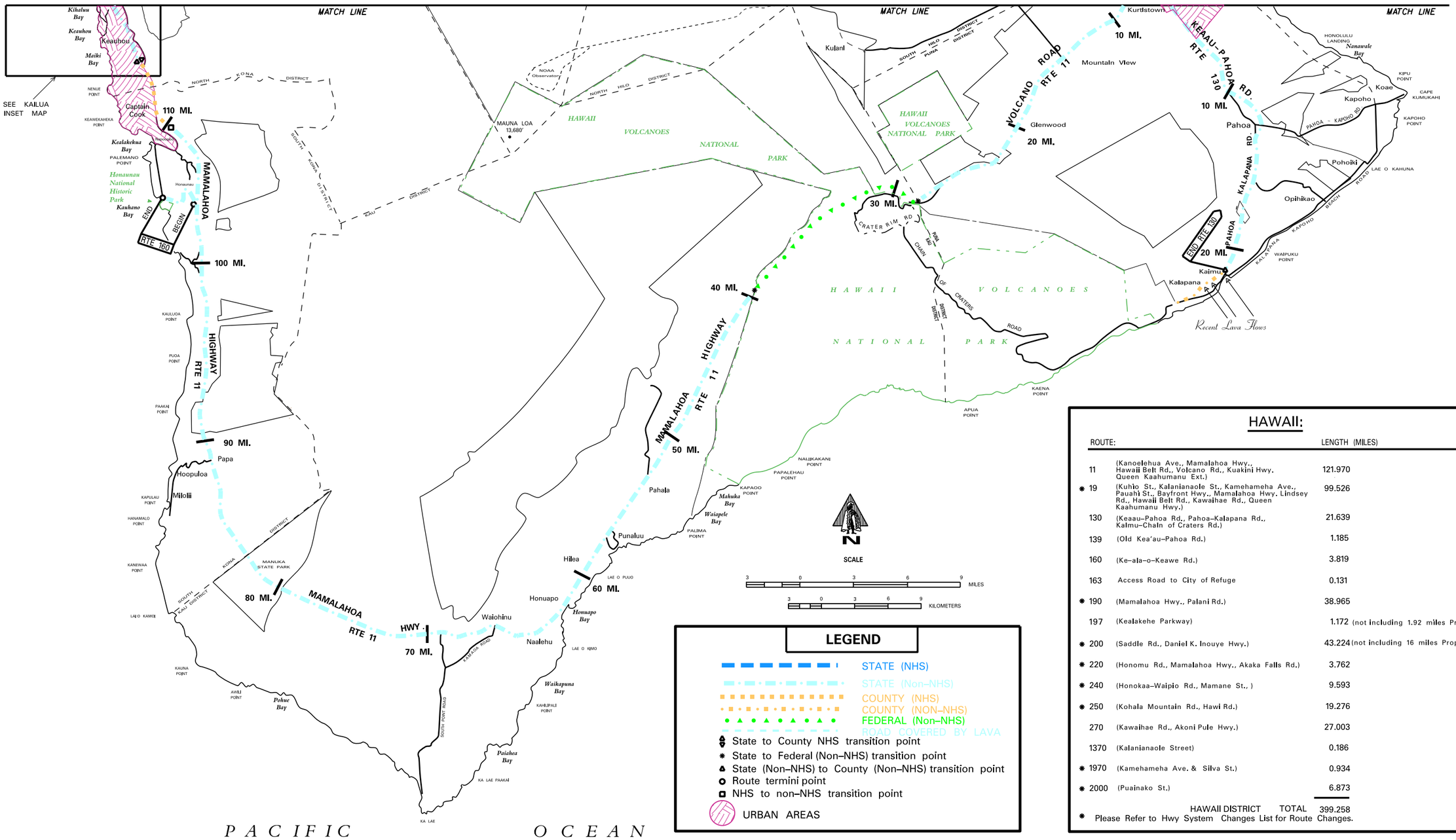
COUNTY OF HAWAII

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 2017



LEGEND

- STATE (NHS)
- STATE (Non–NHS)
- COUNTY (NHS)
- COUNTY (NON–NHS)
- FEDERAL (Non–NHS)
- ROAD COVERED BY LAVA
- State to County NHS transition point
- 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.)	121.970
*	19	(Kuhio St., Kalanianaole St., Kamehameha Ave., Pauahi St., Bayfront Hwy., Mamalahoa Hwy. Lindsey Rd., Hawaii Belt Rd., Kawaihae Rd., Queen Kaahumanu Hwy.)	99.526
	130	(Keaau–Pahoa Rd., Pahoa–Kalapana Rd., Kalmu–Chain of Craters Rd.)	21.639
	139	(Old Kea'au–Pahoa Rd.)	1.185
	160	(Ke–ala–o–Keawe Rd.)	3.819
	163	Access Road to City of Refuge	0.131
*	190	(Mamalahoa Hwy., Palani Rd.)	38.965
	197	(Kealakehe Parkway)	1.172 (not including 1.92 miles Proposed)
*	200	(Saddle Rd., Daniel K. Inouye Hwy.)	43.224 (not including 16 miles Proposed)
*	220	(Honomu Rd., Mamalahoa Hwy., Akaka Falls Rd.)	3.762
*	240	(Honokaa–Waipio Rd., Mamane St.,)	9.593
*	250	(Kohala Mountain Rd., Hawi Rd.)	19.276
	270	(Kawaihae Rd., Akoni Pule Hwy.)	27.003
	1370	(Kalanianaole Street)	0.186
*	1970	(Kamehameha Ave. & Silva St.)	0.934
*	2000	(Puainako St.)	6.873
		HAWAII DISTRICT TOTAL	399.258

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

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

STATE ROUTE SYSTEM

COUNTY OF HAWAII

ISLAND OF HAWAII

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
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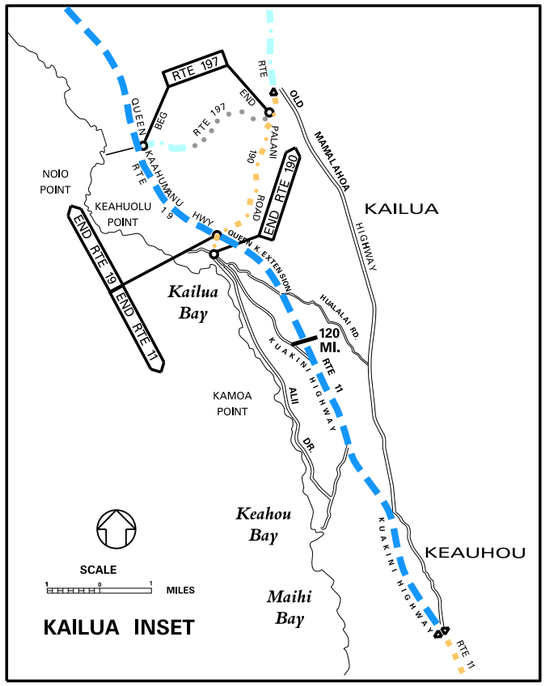
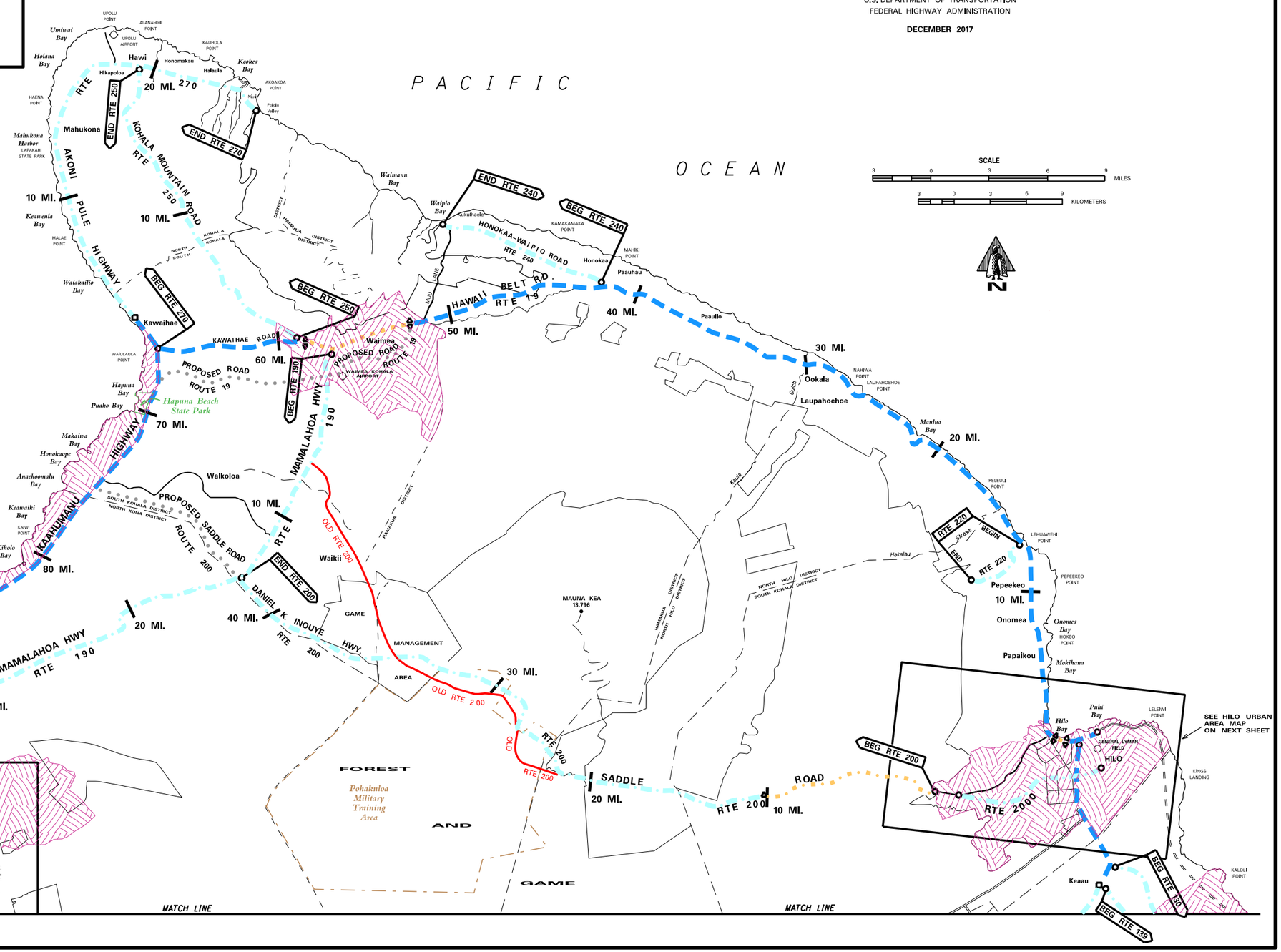
FEDERAL HIGHWAY ADMINISTRATION

DECEMBER 2017

LEGEND

- STATE (NHS)
- STATE (Non-NHS)
- COUNTY (NHS)
- COUNTY (NON-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 DB
May 04 DB
Mar. 08 DB
Feb. 09 DB
Jan. 10 DB
Feb. 11 DB
Feb. 12 DB
Dec. 13 EDJ
Feb. 16 DB
Feb. 17 DB
Feb. 18 DB

2

STATE ROUTE SYSTEM

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
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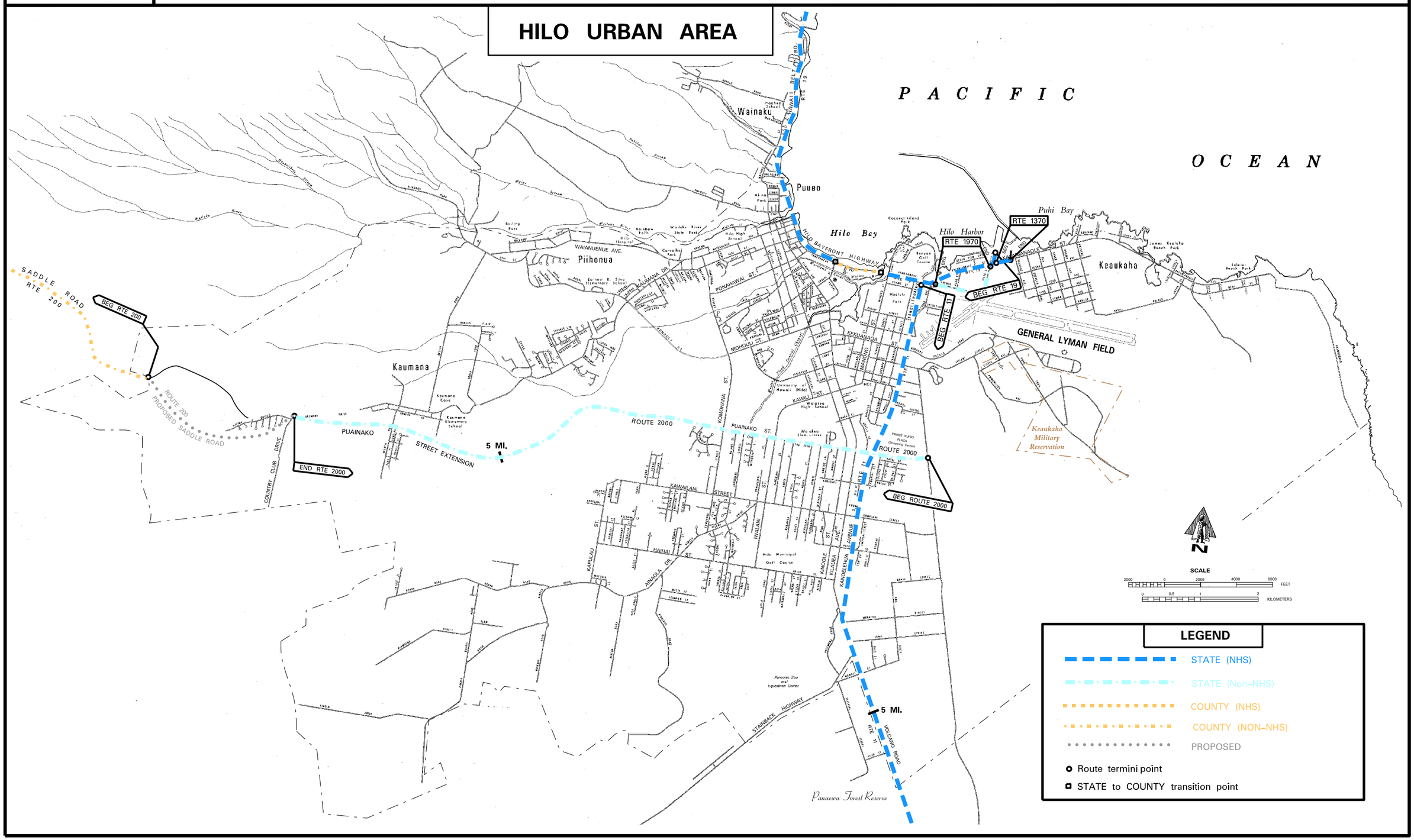
DECEMBER 2017

HILO URBAN AREA



LEGEND

- STATE (NHS)
- STATE (Non-NHS)
- COUNTY (NHS)
- COUNTY (NON-NHS)
- PROPOSED
- Route termini point
- STATE to COUNTY transition point

Date Released	
Dec. 2002	JK
Revised	
Feb 03	DB
May 04	DB
Feb 08	DB
Feb 11	DB
Feb 12	DB
Dec. 13	EPJ
Dec. 14	EPJ
Jan. 16	EPJ
Jan. 17	EPJ
Feb 18	DB

③

ROAD INVENTORY

HAWAII RTE. 11
VOLCANO ROAD – KANOELEHUA AVE.

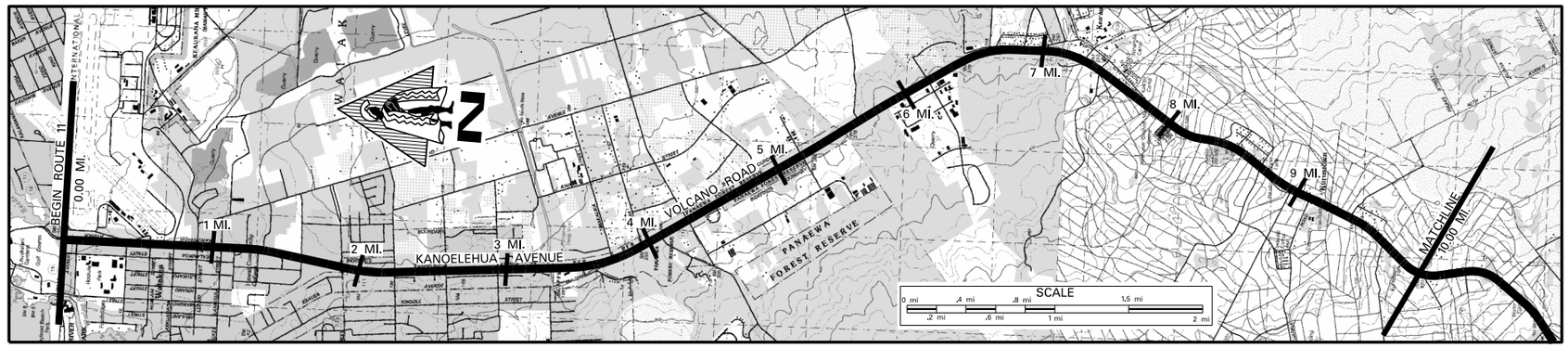
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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

NEEDS STUDY ROUTE NO. _____ FUNCTIONAL CLASSIFICATION _____

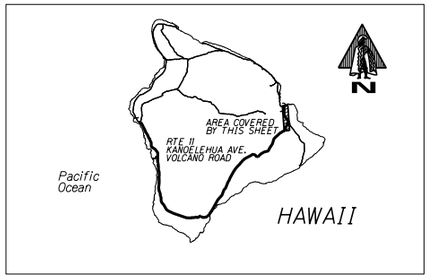


SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

11P (1.08 MI) | 1.08 END 11N – BEGIN 11P ON KANOELEHUA AVENUE 100' SOUTH OF CENTERLINE WITH LANIKAULA STREET | 11N (6.24 MI) | 7.32 END 11M – BEGIN 11N ON MAMALAHOA HWY, 100' SOUTH OF CENTERLINE WITH KEEAU–PAHOA ROAD. | 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' (1.41–2.50); 125' (2.50–3.24); 125' – 185' (3.24–7.46); 80'
Available Right of Way Width (Needs Study)		(6' CHAINLINK 15'–25' FROM PAV'T) 0.44–0.54 COMMERCIAL; 0.54–1.89 RESIDENTIAL AREA; 1.89–3.28 TREES, BRUSH; 3.28–6.46 RESIDENTIAL AREA, TREES
Right of Way Fence: Type – Right and Left		CHAINLINK 8' FROM PAV'T 7.31–7.55
Control of Access: 1–None, 2–Partial, 3–Full		PARTIAL 0.58–5.48; NONE 5.48–10.00
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)		C to S Phase I 0.58
Project No., Type of Construction, and Year Constructed		(HES–STP–011–2(20) 1999 IMPROVEMENTS); (2000E–01–00, IMPRV., 2004) 0.76–1.89; STATE; STP–011–2(39), PAVEMENT PREVENTIVE MAINTENANCE, 2013 3.30–6.46; STP–011–2(041), PREVENTIVE MAINTENANCE, 2014 6.59–10.00
Project No., Type of Construction, and Year Constructed		NH–011–2(24) 1999 WIDENING 0.76–1.77; NH–011–2(33) 1999 RESURFACE 1.89–2.30; HWY–H–02–15M, 2017 2.30–6.45; F–011–2(17) WIDENING 1987 6.45–6.59; HWY–H–02–15M, 2017



Road Diagram

Indicates Grass & / or Physical Barrier on Median.

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

0.00 MI. — KANOELEHUA AVE. — VOLCANO ROAD — 10.00 MI.

KUAWA ST. 0.010 MI. | PILANI ST. 0.088 MI. | HULANI ST. 0.421 MI. | AIRPORT RD. 0.579 MI. | LELEAI ST. 0.728 MI. | KAWILI ST. 0.898 MI. | E. LANIKAULA ST. 0.980 MI. | POHAKU ST. 1.057 MI. | HALEKAULA ST. 1.147 MI. | MAKAALA ST. 1.227 MI. | PUANAKO ST. (RTE 2000) 1.338 MI. | DRIVEWAY 1.601 MI. | E. KAHAOPEA RD. 1.892 MI. | AHONA PL. 2.046 MI. | KAWAILANI ST. 2.246 MI. | E. PALAI ST. 2.522 MI. | PANAEWA BR. WAIANUHEA PL. 2.945 MI. | DRIVEWAY 3.201 MI. | KLAUEA AVE. (ACCESS) 3.525 MI. | KLAUEA AVE. MAKALIKA ST. 3.728 MI. | LAMA ST. 3.949 MI. | BEGIN MEASURED MILE STANBACK HWY. 3.994 MI. | MAMAKI ST. 4.093 MI. | HAWAII COMM. CORRECTIONAL CENTER 4.299 MI. | TELEM. STA. 011052 4.509 MI. | IKAIKA ST. 4.969 MI. | END MEASURED MILE 4.963 MI. KM | PUNAHIL ST. 5.185 MI. | DOST. BDRY. SIGN 5.290 MI. | MACADAMIA DR. 5.488 MI. | E. KIPIMANA ST. 5.639 MI. | KEAAU–PAHOA BYPASS RD (RTE 130) 5.994 MI. | OLD KEEAU–PAHOA ROAD (RTE 130) 6.641 MI. | ACC. FROM MAMALAHOA HWY. 7.035 MI. | OLD VOLCANO RD. 7.285 MI. | PAVED ROAD 7.770 MI. | PA'AHANA ST. 8.274 MI. | AKA'AKAI ST. END DIVIDED 8.524 MI. | BEGIN DIVIDED 8.731 MI. | MEAULU ST. 8.860 MI. | KUAMANA ROAD 8.928 MI. | PAVED ROAD SOUTH 9.093 MI. | BEGIN DIVIDED OLA'A ROAD 9.254 MI. | END DIVIDED HUNA ROAD 9.477 MI. | HALE PULE LP. 9.690 MI. | 9.798 MI. | 9.991 MI.

CONTINUES ON SHEET #2

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided	Shoulder: Width and Type	(COMBINATION BIKELANE & SHOULDER FROM 0.00 MI.– 6.70 MI.) 10' AC B.L./SHLDR. 0.00–0.57; 9'–11' AC BIKELANE/SHOULDER 0.57–6.70; MILLED RUMBLE STRIPS 3.30–6.45
	Pavement: Width and Type	12' AC 0.00–0.11; 24' AC 0.11–5.87; 36' AC 5.87–6.58; 24' AC 6.58–7.37; (12' AC) 7.37–8.03; 24' AC 8.03–8.48; 12' AC 8.48–8.72; 24' AC 8.72–9.09; 12' AC 9.09–9.48; 24' AC 9.48–9.80; 12' AC 9.80–9.88; 24' AC 9.88–10.00
	Shoulder: Width and Type	2'–4' AC; 0'–2' AC; 2'–4' AC; 0'–2' AC; 2'–4' AC; 0'–2' AC; 18' GRASS; 0'–18' PAINT; 0'; 0–6' PAINT; 0'; 0–10' PAINT; 0'
	Median: Width and Type	GRASS MEDIAN varies to 26'; 36'–60' TREES AND BUSHES; 0'–20' AC; 18' GRASS; 6'–18' AC; 18' GRASS
	Median Barriers: (M/M GUARDRAIL)	CURB; GUTTER; M/M 0.68–6.65
	Shoulder: Width and Type	0'–2' AC
	Pavement: Width and Type	33' AC; 24' AC; 12' AC
	Shoulder: Width and Type	(COMBINATION BIKELANE & SHOULDER FROM 0.00 MI.– 2.60 MI.) 4' AC BIKE LANE; 8'–10' AC B.L./SHLDR. 2.26–2.40; 8'–10' AC; 6'–8' AC; 10'–12' AC; 8'–10' AC; 8'–10' AC; 10' AC
Number of Traffic Lanes		1 = 12'; 2 – 12'; 3 – 11'; 4 – 12'; 2 – 12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	ALL T. L. 12'	AUX
(Right Side)	ALL T. L. 12'	
Frontage Road: No. of Lanes, and Width (Right and Left)		
Sidewalk: Width and Type (Right and Left)		5' CONCRETE SIDEWALK
Curb and/or Gutter: Type (Right and Left)		CURB & GUTTER; CURB; GUTTER; 2.5' 2 DOWNGRADE CURB AND GUTTER; CURB
Protective Devices: Type, Location and Number	ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED	9.65 AC CURB; .726 .790 (Low Pressure Sodium)
Illumination: Type, Location and Number		33 M.V.; 12 LPS
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62)		A
Superelevation (Range)		
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45)		B; A; B; A; B; C; B; C
Vertical Curve: Crest or Sag, Curve Limits		
Area and Development:		SMALL URBAN (99998); RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous		FLAT (1); ROLLING (2)
Speed: 1–Design, 2–Posted		35 MPH (2); 45 MPH (2); 55 MPH (2); 55 MPH (2), MIN. 40 MPH; 45 MPH (2); 35 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	3 PHASE; 4 PHASE; 3 PHASE
Traffic Stations (Current Year)		B71 0011 00000; B71 0011 00056; B71 0011 00106; B71 0011 00189; B71 0011 00377; B71 0011 00664; B71 0011 00730; B71 0011 00969
HPMS Sections – AADT 2016		23,200; 35,200; 35,600; 31,800; 43,400; 19,200; 19,400; 13,400
HPMS Sections – AADT 2015		20,200; 36,397; 34,000; 32,700; 41,700; 23,100; 20,700; 12,500
HPMS Sections – AADT 2014		22,000; 35,200; N/A; 29,400; 40,300; 17,000; 18,900
DOD Sections		
Census Tracts		
Functional Classification		PRINCIPAL ARTERIAL (3); MINOR ARTERIAL (4)
National Highway System (NHS)		ON NHS (1); NOT ON NHS (0)
Previous Projects: Project No., Date and Limits		(NH–019–1(37), GRD RAIL & SHLDR IMP., 2009) 11N–01–07M, PREVENTIVE MAINTENANCE, 2010; NH–011–2(33) 1999 RESURFACE; NH–011–2(33), RESURFACE 1999; (2000E–01–00, IMPRV., 2004); NH–011–2(24) 1999 WIDENING; 11N–01–91M 1992 RESURFACE 8 LANES; 11MN–01–77M 1977 RESURFACE; 11NP–01–80M 1980 RESURFACE; F–011–2(9) INBOUND 1961; F–04–2(9) INBOUND 1962; 11MN–01–93M RESURFACE, 1993; 11M–01–71 1971; F–RF–011–2(13) 1977; F–011 OUTBOUND; F–011–2(2) 1960; 11P–01–70 1971; F–2(3) 1949; F–2(4) 1948; 11M–01–82M (R) 1982; F–2(4) WDR 1952, 1950; STP–011–2(29), RESURFACE, 1996; 11P–01–10, 2005 RESURFACE; 11N–01–10 2005 RESURFACE

SCALE: (In Miles) 2" = 1 mile

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

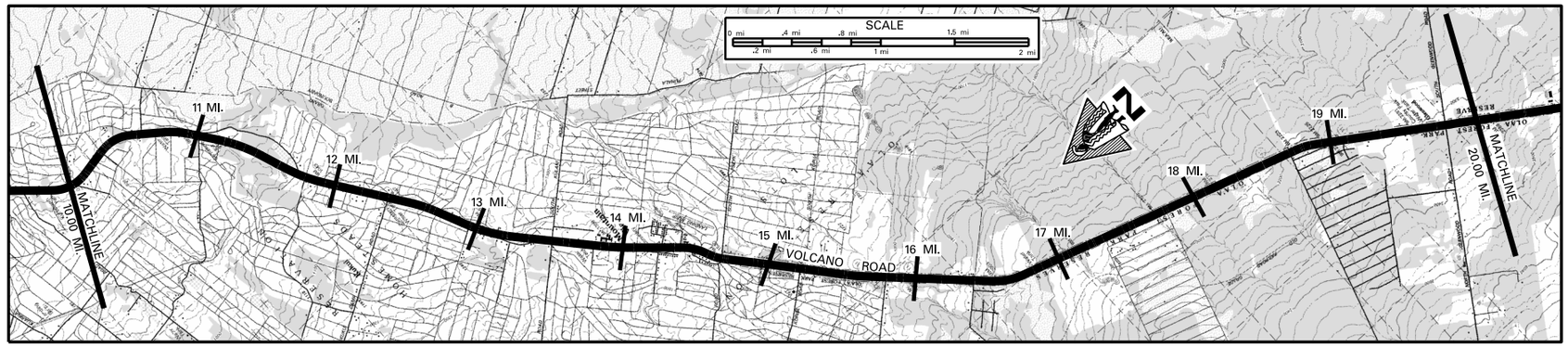
ROAD INVENTORY
HAWAII RTE 11
VOLCANO ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 11 M (9.12 MI.); END 11 L, BEGIN 11 M ON VOLCANO ROAD 50' NORTH OF CENTERLINE OSHIRO ROAD, (16.44); 11 L (12.00 MI.)

Structure Carrying Road

Bridges (Over 20'): Length, Type, Capacity and Year Constructed: CULVERT, 1966, HS–20 (42' 55' 43'; 18.48 16.39 19.24)

Vertical Clearance: 44' 44' 44'

Horizontal Clearance:

Structure Over Road

Vertical Clearance:

Horizontal Clearance:

Right of Way Width (min.–max.) If varies: 80' (12.56); 80'–144' (14.43); 80'–125' (19.77); 90'–110'

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

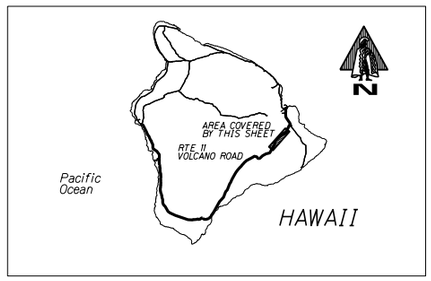
Right of Way Fence: Type – Right and Left: WIRE 12' F.P. (10.72 10.84 11.09); C.L. 10' F.P. (11.31 11.43); C.L. 10' F.P. (11.89 12.00); S.W. 15' F.P. (12.25 12.37); C.L. 20' F.P. (12.49 12.77); C.L., WIRE 10' F.P.

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

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

Project No., Type of Construction, and Year Constructed: STP–011–2(041), PREVENTIVE MAINTENANCE, 2014 (13.38); (HS–STP–011–2(38), INTR. AND DRAIN IMPRV., 2013) (13.78)

Project No., Type of Construction, and Year Constructed: HWY–H–02–15M, 2017 (13.77); IM–02–02M 2003 (14.17); STP–011–2(29), RESURFACE, 1996 (16.53); 11L–01–91M, RESURFACE, 1993



Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #1

UALANI RD. 10.032 MI. | HALE'KULA ROAD 10.319 MI. | HAVELU ROAD 10.314 MI. | END DIVIDED 10.698 MI. | KUAULI RD. 10.623 MI. | HALE PULE LP. 10.524 MI. | BEGIN DIVIDED 10.524 MI. | ALA LP. 11.018 MI. (11.19 MP) | N. ALA RD. 11.011 MI. | 10.975 MI. | KUALONO PLACE 11.234 MI. | 1000', 305 M ELEV. (L)&(R) 11.789 MI. | KAPALI ROAD 11.734 MI. | AKALA PL. 11.734 MI. | AHUAHU PL. 11.874 MI. | 11.908 MI. | 11.908 MI. | 12.151 MI. | KUKUI CAMP RD. 12.367 MI. | ENOS ROAD 12.977 MI. | 12.945 MI. | OLD VOLCANO RD. POWER SUBSTATION 13.106 MI. | 13.095 MI. | 21 KM 13 MP | END DIVIDED 13.516 MI. | S. KULANI RD. 13.406 MI. | BEGIN DIVIDED 13.406 MI. | N. KULANI RD. 13.516 MI. | OLD VOLCANO RD. 13.619 MI. | ROADS TO MT. VIEW ELEMENTARY SCHOOL 13.868 MI. | 13.814 MI. | ENTRANCE EXIT 14 MP | S. LAUKO RD. 13.967 MI. | N. LAUKO RD. 14.091 MI. | OLD VOLCANO RD. 14.349 MI. | NICHOLAS RD. PAVED RD. 14.469 MI. | 14.387 MI. | S. PSZYK RD. (R) N. PSZYK RD. (L) 14.676 MI. | CULVERT 14.818 MI. | 15 MP | 14.962 MI. | SOUTH KOPUA RD. NORTH KOPUA RD. 15.248 MI. | 15.216 MI. | CANNEY RD. 15.364 MI. | PRV VET RHODE CULVERT 15.514 MI. | 15.482 MI. | N. PECK RD. 15.803 MI. | 16 MP | 15.965 MI. | OSHIRO RD. 16.496 MI. | 2000', 610 M ELEV. (L)&(R) 16.399 MI. | GLENWOOD CITY & COUNTY TRANSFER STA. 16.868 MI. | MAUNA KEA DR. 17.343 MI. | MAUNA LOA DR. 17.790 MI. | 18 MP | 17.957 MI. | LEHUANANI ST. 18.710 MI. | 19 MP | 18.957 MI. | GLENWOOD PARK 19.610 MI. | TELEM. SITE 19.621 MI. | S. GLENWOOD RD. 19.784 MI. | N. GLENWOOD RD. 19.954 MI. | 20 MP

VOLCANO ROAD

CONTINUED ON SHEET #3

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided

Shoulder: Width and Type: 8'–10' AC; 8" AC (13.76); 10'–12' AC B. L. / SHLDR. (14.45); 8'–10' AC

Pavement: Width and Type: 24' AC; 12" AC; 24' AC; 12" AC; (8'–10' AC); 24' AC

Shoulder: Width and Type: 8'–10' AC; 0; 8'–10' AC; 0; 10'–12' AC B. L. / SHLDR. (13.75); (14.42); 8'–10' AC

Median: Width and Type: (11' PAINTED AC) (.524 .698); (11' PAINTED AC) (.406 .619)

Median Barriers:

Divided Highway – Undivided

Shoulder: Width and Type: 0; 0

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

Shoulder: Width and Type: (8'–10' AC); 8" AC

Number of Traffic Lanes: 2–12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 1–11' (L) T.L. (.595 .691 .623); (.567 .598 .241)

(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): .027; 10.78 10.98 AC CURB; 12.76 AC CURB; 13.34 13.47; .580 .777; .676 .696 .699 .833 .787 .929 .935 .833; .364 .301 .554 .486 .511 .459 .696 .672 .697 .643 .595 .593 .784 .826 .895; .684 .773; .277 .273 .226 .265 .226; .764 .948

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

Illumination: Type, Location and Number: FROM 6.71 MI. 33 MV (10.65); 11.19 LOW PRESSURE SODIUM; .282 .364 .558 13.56 .753 .843 .382; .595 11 MV; .375 .274 .226 .631 .103 .265 .226

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62): B 10.14 A 10.37 B 10.55; LOW PRESSURE SODIUM; A; 15.91

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45): (C) 10.00 D 10.16 C 13.42 B 13.77 C 14.81 D 14.97 C 15.62 D 16.68 C 17.24 B 18.78 C 19.02 B 20.00

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: .944 ROLLING (2) .806 .645

Speed: 1–Design, 2–Posted: 45 MPH (2), MIN. 30 MPH .027; 55 MPH (2) MINIMUM 40 MPH .400 .576; 45 MPH (2) .594; 55 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 00969; B71 0011 01468

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

HPMS Sections – AADT 2015: 12,500 (14.68); 6,700

HPMS Sections – AADT 2014: 18,900 (10.63); 12,700

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

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

Previous Projects: Project No., Date and Limits:
STP–011–2(29), RESURFACE, 1996 (13.77)
STP–011–2(29), RESURFACE, 1996 (16.53)
11M–02–82M (RESURFACE), 1982 (16.44)
(F–2(4) WOR 11(2) 1950) (10.05)
11M–01–11, 1971 (14.13)
F–2(4) 1948 (14.92)
(15.79) F–0112(5), 1970 (16.53)
F–2(6), 1951 (16.48)
F–011–2(5), 1970 (19.85)
F–011–2(5), 1967
(S–0144(1), 1958)

SCALE: (In Miles) 2" = 1 mile

Date Released
JUNE 05, D.B.

Revised	
5/06	G.N.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
1/13	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

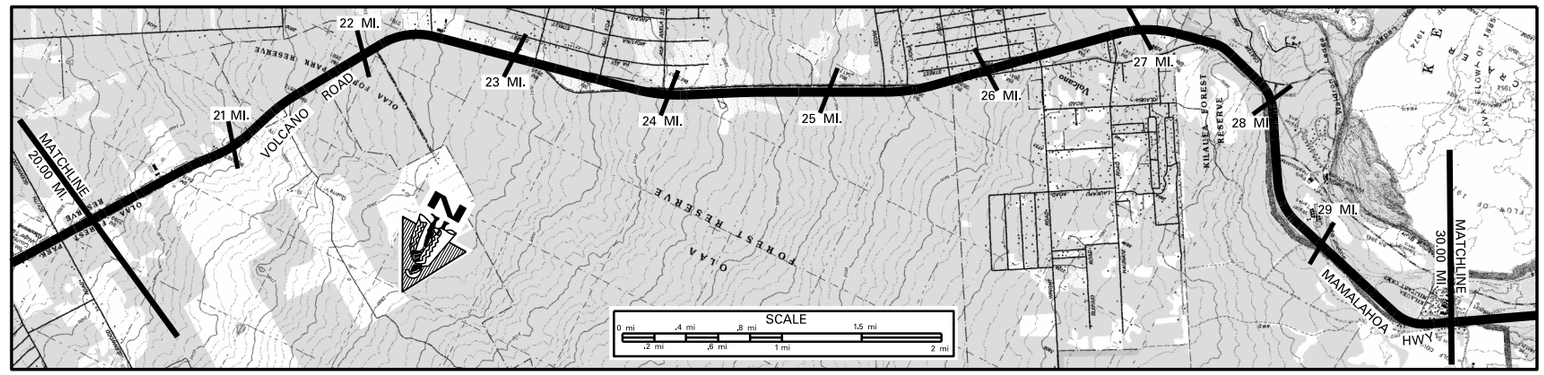
ROAD INVENTORY
HAWAII RTE 11
VOLCANO RD., MAMALAHOA HWY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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

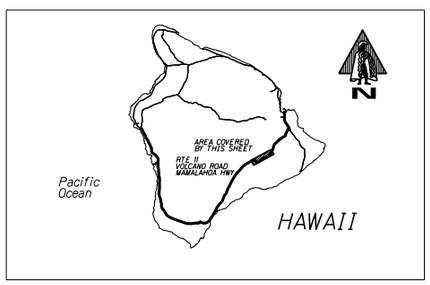


SCALE: (In Miles) 2" = 1 mile

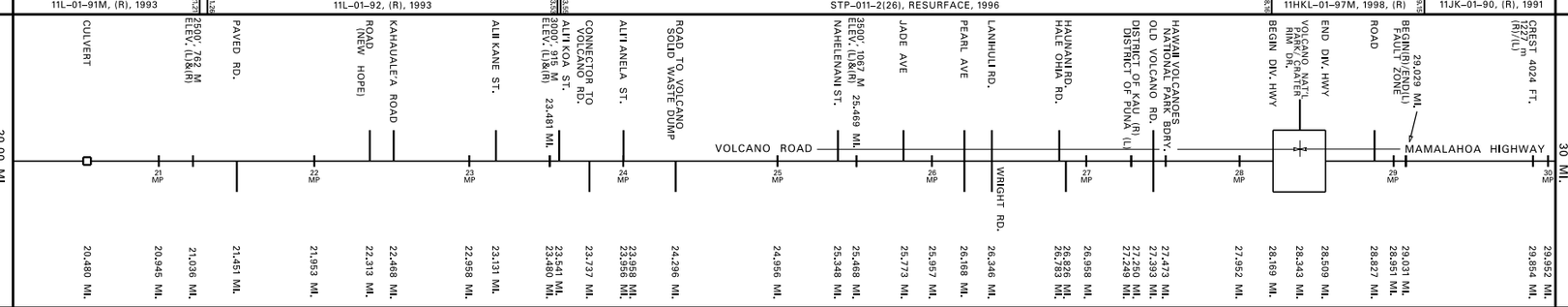
Maintenance Control Sections : Length and Description: 11L (12.00 MI.); END 11K – BEGIN 11L ON MAMALAHOA HWY AT THE CENTERLINE OF VOLCANO NATIONAL PARK ROAD, 20.44; 11K (2.62 MI.)

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' (20.44); 50' (26.00); 80' (27.00)
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; 27.00 FEDERAL (STATE MAINTAINED)
Project No., Type of Construction, and Year Constructed: (S–0144 (1), 1958) 21.36–27.07; (F–011–2(11), 1974) 23.59–23.63; 27.02–28.27 (11K–01–03M, (R),2009); 28.27–28.70 11K–01–03M, (R),2009
Project No., Type of Construction, and Year Constructed: 11L–01–91M, (R), 1993; 11L–01–92, (R), 1993; STP–011–2(26), RESURFACE, 1996; 11HKL–01–97M, 1998, (R); 11JK–01–90, (R), 1991



Road Diagram
* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided
Shoulder: Width and Type: 7'–9' AC; 4'–6' AC; 2'–4' AC
Pavement: Width and Type: 24' AC; 12' AC; 24' AC
Shoulder: Width and Type: 8'–10' AC; 2'–4' AC; 0; 8' AC; 2'–4' AC
Median: Width and Type: 12' PAINTED MEDIAN
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): 12' .249 .343 .431
(Right Side): 12' .224 12' .462 .343
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left)
Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED; METAL RAILS/ CONCRETE POSTS
Illumination: Type, Location and Number: LOW PRESSURE SODIUM; 2 LOW PRESSURE SODIUM
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): A; B; A
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): C D C B C D C B C D C D C B C B C B C B A B A
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2); FLAT (1); ROLLING (2)
Speed: 1–Design, 2–Posted: 55 MPH (2); 45 MPH (2), MINIMUM 30 MPH
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0011 01468; B71 0011 02635; B71 0011 02835
HPMS Sections – AADT 2016: 7,100; 4,500; 2,200
HPMS Sections – AADT 2015: 6,700; 4,000; 2,100
HPMS Sections – AADT 2014: 12,700; 4,900; 3,600
DOD Sections
Census Tracts: CT 210; CT 212
Functional Classification: MINOR ARTERIAL (4)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits: (11JK–01–84M, 1985, RESURFACE); (FLH–011–2(18), (INT. IMPRV.), 1987) 28.18–28.67; 29.27–29.36; 29.96; S–0144(1), 1958; 21.21–21.28; 11L–01–76M, (R), 1977; 23.53; F–011–2(11), 1974; F–011–2(11), 1973; 27.53; S–0144(2), 1961; 28.08; 11K(L–01–78M & PMS–0100(11) UNIT 1, RESURFACE, 1978; F–011–2(5), 1967; 20.50; S–0144(1), 1956; 23.58; NPH–3A, 1962; 28.56; NPH–5A; 29.98; NPH–3A, 1962; STA. 313 + 70.08; STA. 213 + 03.49; STA. 102 + 79.45; STA. 184 + 28.90; STA. 157 + 00; STA. 132 + 20

SCALE: (In Miles) 2" = 1 mile

Date Released
JUNE 05, D.B.

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

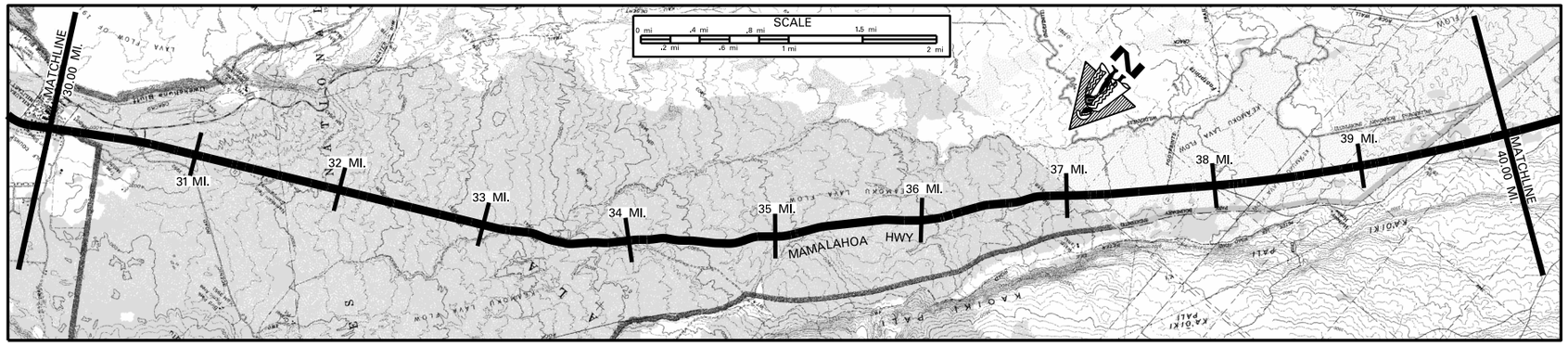
ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HIGHWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



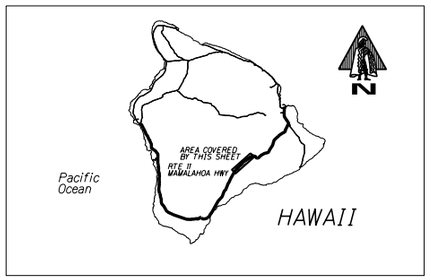
SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description
11 K (2.62 MI.) | 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) | (9000 + 00) | STATE
Project No., Type of Construction, and Year Constructed: 11K–01–03M (R), 2009 | (STP–0100(31), 1994, G.R. IMPRV.) | STP–011–2(042) REV. MAINT., 2015
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 | HWY–H–02–15M, 2017



Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #3 — 30.00 MI.

KILAUEA MIL. CAMP | CRATER RIM RD. | BEGIN/(L)END(R) "FAULT" ZONE 30.850 MI. | NAMAKANI PAIO CAMPGROUND | PAVED ROAD | 2560' 1066 M ELEV. (L)&(R) | ECB (L) TRAIL TO FOOTPRINTS (KAU DESERT TRAIL HEAD) | 2100' 814 M ELEV. (L)&(R) | PAVED RD. | HAWAII VOLCANOES NAT'L PARK BDRY. | PAVED RD.

MAMALAHOA HIGHWAY

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

PII MAUNA DR. 30.047 MI. | MAUNA LOA RD. 30.646 MI. | 30.857 MI. | 30.936 MI. | 31.348 MI. | 31.941 MI. | 32.942 MI. | 33.359 MI. | 33.942 MI. | 34.375 MI. | 34.960 MI. | 35.933 MI. | 36.928 MI. | 37.691 MI. | 37.879 MI. | 37.934 MI. | 38.170 MI. | 38.578 MI. | 38.925 MI. | 39.396 MI. | 39.528 MI. | 39.922 MI.

CONTINUED ON SHEET #5 — 40.00 MI.

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
- 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 GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED
Illumination: Type, Location and Number
Curves Class: +/– Degree A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous ROLLING (2)
Speed: 1–Design, 2–Posted 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 02835 | B71 0011 03065
HPMS Sections AADT 2016: 2,200 | 2,400
HPMS Sections AADT 2015: 2,100 | 2,275
HPMS Sections AADT 2014: 2,200
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (4)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits
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–01–90M, (R), 1991
(11JK–01–64M, 1985, RESURFACE)
(11JK–01–64M, 1985, RESURFACE)
(11KL–01–78M & PMS–0100(11) UNIT 1, (R), 1978)
11J–01–76M (R), 1976
11H–01–80M, (R), 1980
NPH–3A, 1962
NP–3B, 1931
NP–3C, 1940
F–18(5), 1953

SCALE: (In Miles) 2" = 1 mile

Date Released
JUNE 05, D.B.

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

ROAD INVENTORY

OAHU RTE 11
MAMALAHOA HIGHWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

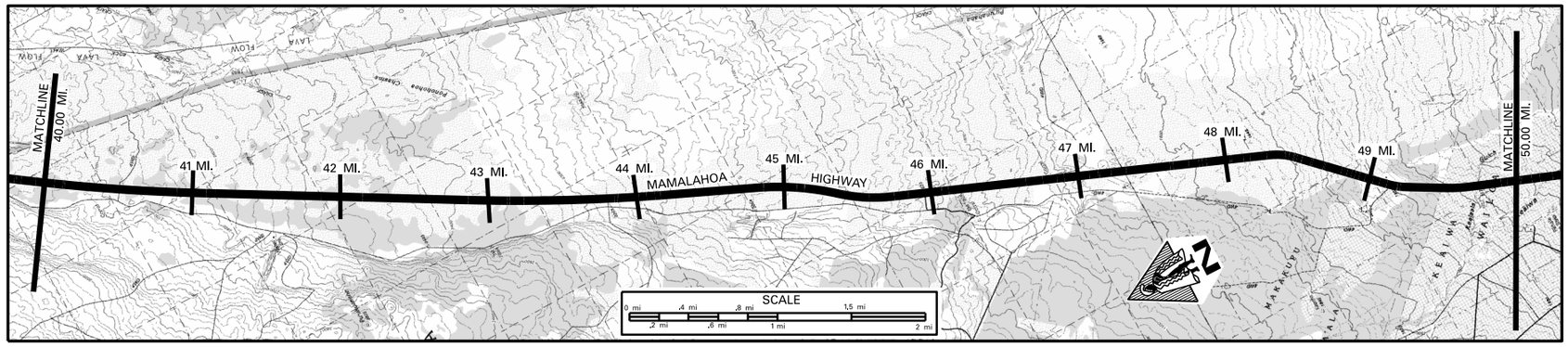
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 121.970 miles

a. Survey Length: 121.970 miles

b. Proposed Length: 0.00 miles

c. Other Length: 0.00 miles



SCALE: (In Miles) 2" = 1 mile

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

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

Structure Carrying Road — Vertical Clearance: 40.07, 40.46, 40.77

Structure Carrying Road — Horizontal Clearance: 40', 34', 40'

Structure Over Road — Vertical Clearance:

Structure Over Road — Horizontal Clearance:

Right of Way Width (min.-max.) If varies: 80', 41.27, 41.46, 80, 80', 60.00, 60'

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

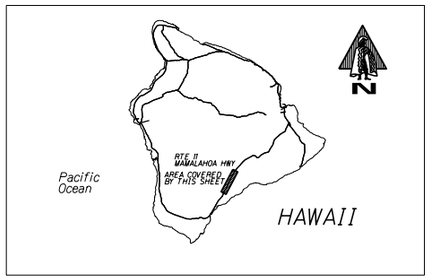
Right of Way Fence: Type – Right and Left: WIRE ON WOOD 15' FROM PAVEMENT (L) & (R)

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

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE; 324 + 50; 183 + 00; 200 + 00; 193 + 97.81; 200 + 98; (ER-12(2), BRIDGE REPLACEMENT, 2006)

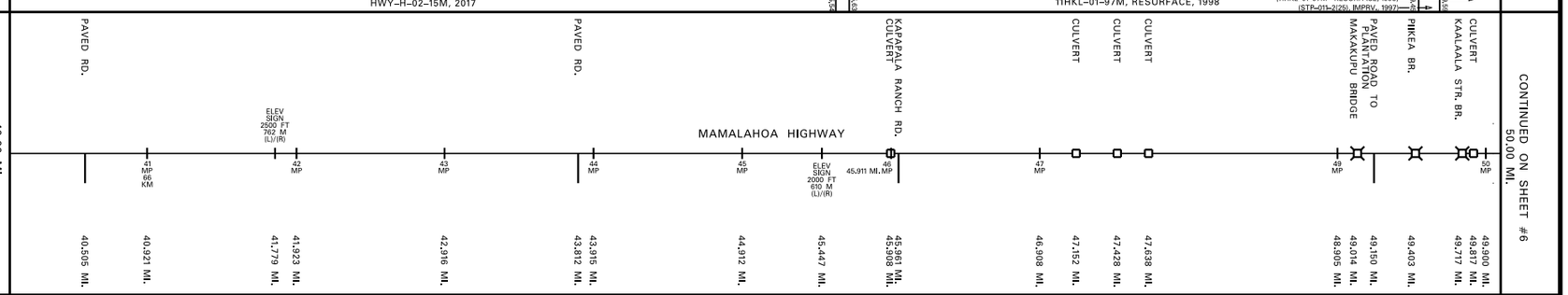
Project No., Type of Construction, and Year Constructed: STP-011-2(042), PAVEMENT PREVENTIVE MAINTENANCE, 2015

Project No., Type of Construction, and Year Constructed: HWY-H-02-15M, 2017; 11HKL-01-97M, RESURFACE, 1998; (11HKL-01-97M RESURFACE, 1998) (STP-011-2(26), IMPRV., 1997)



Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided — Shoulder: Width and Type: 8' AC; 3' AC / 3' GRAVEL; 6' AC; 7'–9' AC; 3' AC / 3' GRAVEL; 7' AC; 3' AC / 3' GRAVEL; 4'–6' AC; 6'–8' AC; 9' AC; 3' AC

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

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

Median: Width and Type

Median Barriers:

Shoulder: Width and Type

Pavement: Width and Type

Shoulder: Width and Type

Number of Traffic Lanes: 2–12'; 2–11'

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

(Right Side)

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

Sidewalk: Width and Type (Right and Left)

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

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

Illumination: Type, Location and Number

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

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): C 40.42; B 40.82; C 41.90; B 43.29; C 45.15; B 45.57; C 46.09; D 46.26; C 46.38; D 46.72; C 46.92; D 47.12; B 47.92; C 48.46; E 48.76; D 48.88; E 49.10; D 49.22; D

Vertical Curve: Crest or Sag, Curve Limits

Area and Development:

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: RURAL (99999); ROLLING (2)

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 03065

HPMS Sections – AADT 2016: 2,400

HPMS Sections – AADT 2015: 2,275

HPMS Sections – AADT 2014: 2,200

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

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

Previous Projects: Project No., Date and Limits: 11H-01-80M, RESURFACE, 1980; 45.63; 11HKL-01-97M, (RESURFACE), 1998; (11GH-01-82M, (RESURFACE), 1982) 49.51; (11GH-01-81, (SHOULDER STABILIZATION), 1981) 49.51; 49.82; 11H-01-80M, RESURFACE, 1980; 48.25; 11G-01-79, 1979, (SHOULDER STABILIZATION); F-18(5), 1953; 45.00; WER 1(7), 1948; 48.89; FAP 18 B 1938

SCALE: (In Miles) 2" = 1 mile

Date Released
June 2005, D.B.

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

ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HWY

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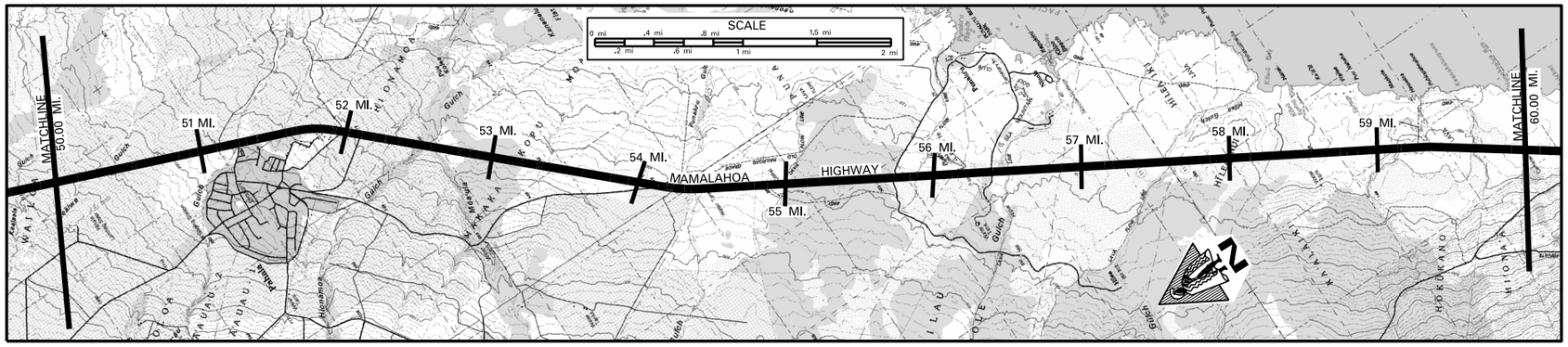
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 121.970 miles
- a. Survey Length: 121.970 miles
- b. Proposed Length: 0.00 miles
- 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. (51.37); 11G (9.20 MI.)

Structure Carrying Road

Bridges (Over 20'): Length, Type, Capacity and Year Constructed
- PRECAST PLANK 2001, HL-93 — 234'
- PRE-STRESSED CONC. PLANKS 2003, HL-93 — 126'
- CONC. FRAME 1938, H-15 — 82', 70'
- SLAB 1938, H-15 — 43'
- TEE-BEAM 1940, H-15 — 31'
- TIMBER STRINGER 1950, H-15 — 60'
- TIMBER STRINGER 1940, H-15 — 41'

Vertical Clearance: 50.35, 50.32, 50.63, 50.72, 50.45, 54.53, 56.68, 57.70

Horizontal Clearance: 40', 40', 24', 24', 24', 24', 24', 24'

Structure Over Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.–max.) If varies: 60', 60', 60', 60'–80', 60'

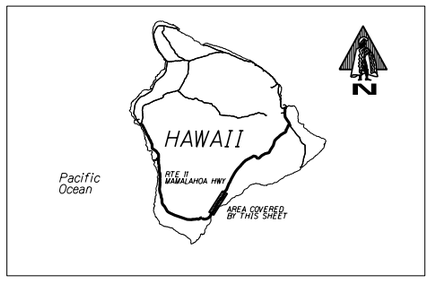
Available Right of Way Width (Needs Study): BUSHES AND TREES ON LAVA ROCK; BUSHES AND LARGE TREES ON LAVA ROCK CUT SLOPES

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

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

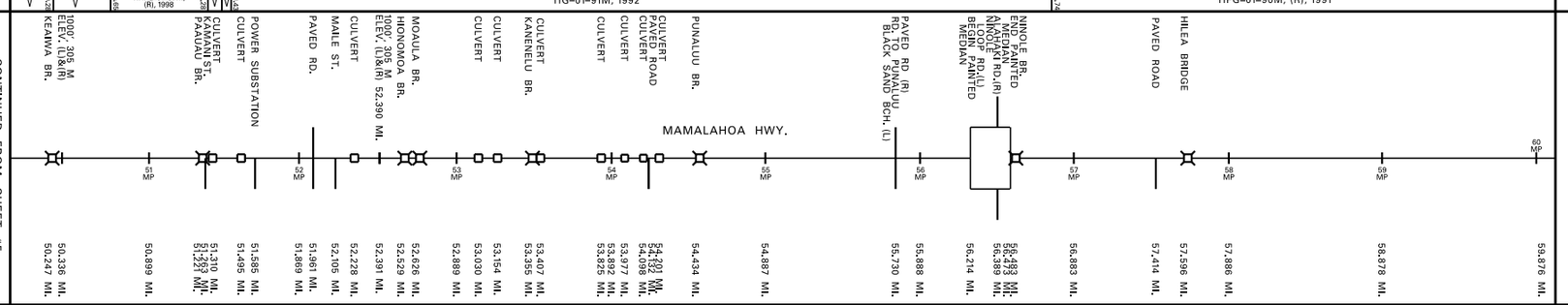
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE

Project No., Type of Construction, and Year Constructed: (ER-12(3), (BRIDGE REPLACEMENT), 2003); (11HKL-01-97M, (R), 1998); (ER-12(1), (BRIDGE REPLACEMENT), 2001); 11HKL-01-97M, (R), 1998; (11HGH-01-82M, (R), 1982); (11G-01-04, DRAINAGE IMPR, 2008); 11G-01-91M, 1992; 11FG-01-90M, (R), 1991



Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway

Undivided

Shoulder: Width and Type: 4'–9' AC; 4'–8' GRASS; (4'–8' GRASS); 4' AC; 4'–6' AC; (15' AC); 4'–6' AC

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

Shoulder: Width and Type: 4'–9' AC; 5'–15' GRASS; (6'–16' GRASS); 4' AC; 0; 4' AC; 4'–6' AC

Median: Width and Type: 12' PAINTED MEDIAN

Median Barriers:

Shoulder: Width and Type: 0

Pavement: Width and Type: 10'–18' AC

Shoulder: Width and Type: 4' AC

Number of Traffic Lanes: 2–11'; 2–10'; 1–10'–18' (L) & (R); 2–10'

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

(Right Side)

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

Sidewalk: Width and Type (Right and Left): (CONC. GUTTER)

Curb and/or Gutter: Type (Right and Left): (AC GUTTER); (4' CONC. GUTTER)

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

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 03065; B71 0011 05639

HPMS Sections – AADT 2016: 2,400; 3,700

HPMS Sections – AADT 2015: 2,275; 3,722

HPMS Sections – AADT 2014: 2,200; 2,200

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

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

Previous Projects: Project No., Date and Limits
- 11 HKL-01-97M, (RESURFACE), 1998 — 51.37
- 11GH-01-82M, (RESURFACE), 1982 — 51.43
- 11GH-01-82M, (R), 1982 — 52.64; 54.21; 54.53
- 11GH-01-81, (SHLDR. STAB.), 1981 — 50.53; 53.66
- 11G-01-78, (SHLDR. STAB.), 1978
- FAP 16 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.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
1/13	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

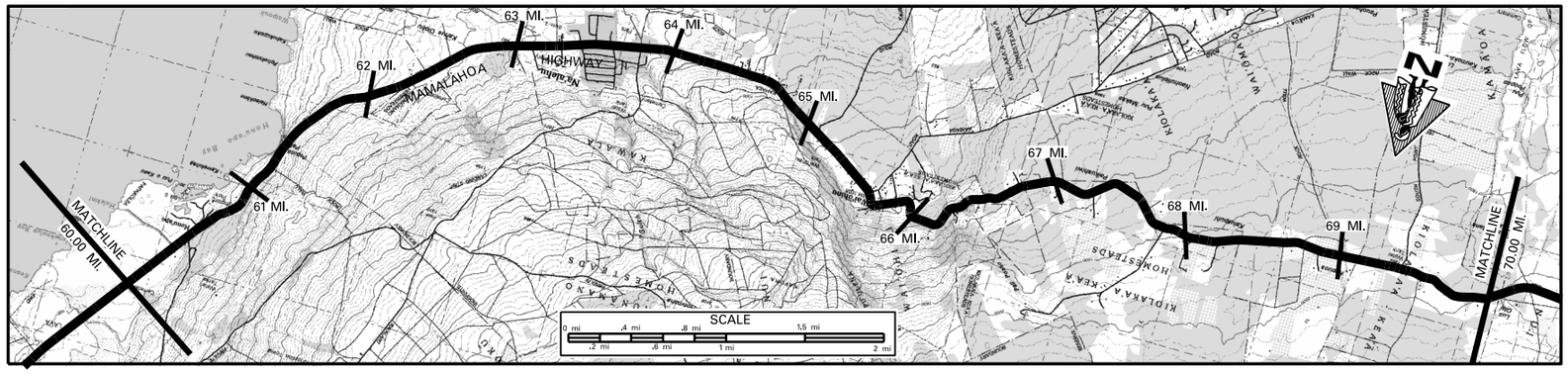
ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HIGHWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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

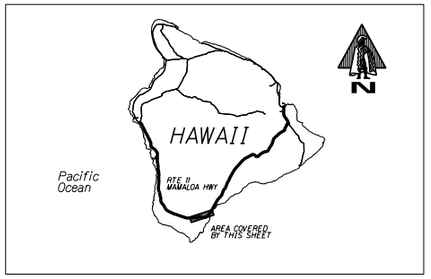


SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description
11G (9.20 MI.) — 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.)

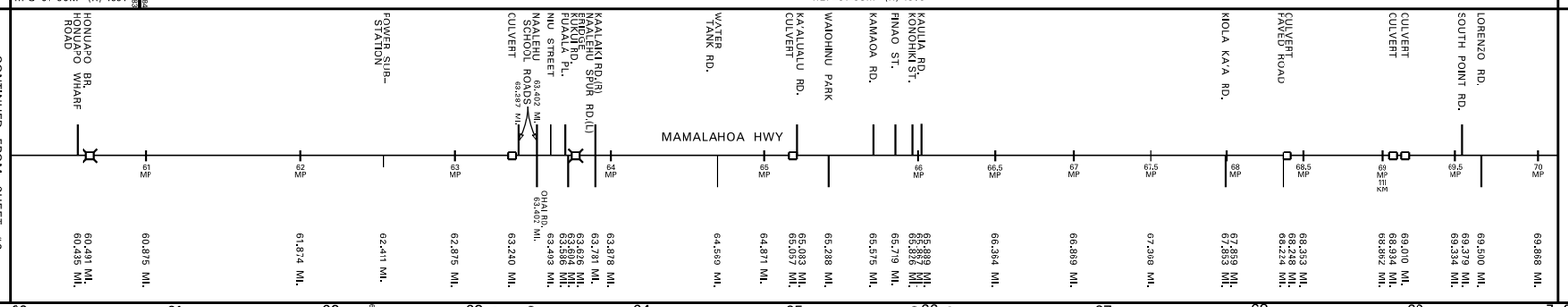
Structure Carrying Road — Bridges (Over 20'): Length, Type, Capacity and Year Constructed: SLAB 1940, H–15
Vertical Clearance: 44'
Horizontal Clearance: 24'
Structure Over Road — Vertical Clearance
Horizontal Clearance

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; WIRE ON WOOD 15' FROM PAVEMENT; FENCE; ROCK WALL; (FENCE); (ROCK WALL)
Control of Access: 1–None, 2–Partial, 3–Full: NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE
Project No., Type of Construction, and Year Constructed: (COUNTY, P–1942, 1974); HSIP–011–2(37), SAFETY IMPRV., 2010; (11E–01–10M, GUARDRAILS, 2011)
Project No., Type of Construction, and Year Constructed: 11FG–01–90M (R) 1991; 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; 8' GRASS; 15' GRS.; 0'; 2'–8' GRASS; 2'–8' BP; 0'; 2'–4' GRS.; 2' – 4' AC; (HEDGELINE MILLED RUMBLE STRIP); 4'–6' AC
Pavement: Width and Type: 20' AC; (12' GRAVEL); 22' AC; 24' AC; 18' AC; (6'–12' GRV.) (12' AC); 22' AC; 24' AC; 22' AC; 24' AC
Shoulder: Width and Type: 4'–6' AC; 6' AC; 29–10' GRASS; 4'–8' AC; 2'–6' GRASS; 2'–5' AC; 4'–15' GRS.; 4'–10' GRV.; (6'–10' BP); 6'–10' AC; 5'–10' GRASS; 4'–8' AC; 18' DIRT; 4'–12' AC; 4'–10' GRASS; 14'–18' GRAVEL; 2'–18' GRS.; 2'–8' AC; 2'–10' GRASS; (2'–10' GRV.); 4'–12' AC; 4'–10' GRAVEL (AC); (HEDGELINE MILLED RUMBLE STRIP); 2' – 8' AC; 4'–6' AC
Median: Width and Type
Median Barriers: (RAISED PAVEMENT MARKER CENTERLINE RUMBLE STRIP); (CENTERLINE MILLED RUMBLE STRIP)
Shoulder: Width and Type
Pavement: Width and Type
Shoulder: Width and Type

Number of Traffic Lanes: 2–10'; 2–11'; 2–12'; 2–9'; 2–11'; 2–12'; 2–11'; 2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): (8' BP S.W.); 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 — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED: METAL RAILS/ CONCRETE POSTS
Illumination: Type, Location and Number: MV; MV
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2); MOUNTAINOUS (3); ROLLING (2)
Speed: 1–Design, 2–Posted: 45 MPH (2); 35 MPH (2); 45 MPH (2); (35 MPH (2)); 25 MPH (2); 35 MPH (2); 45 MPH (2); (55 MPH (2) – MIN. 40 MPH)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0011 05639; B71 0011 06583
HPMS Sections – AADT 2016: 3,700; 4,200
HPMS Sections – AADT 2015: 3,722; 3,700
HPMS Sections – AADT 2014: 2,200; 3,600
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (4)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits: (FAP 18C (1), 1938); FAGH 18 D(1), 1938; COUNTY (P–1942) 1974; COUNTY; COUNTY (P–1829) 1974

SCALE: (In Miles) 2" = 1 mile

Date Released
Feb 2001

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

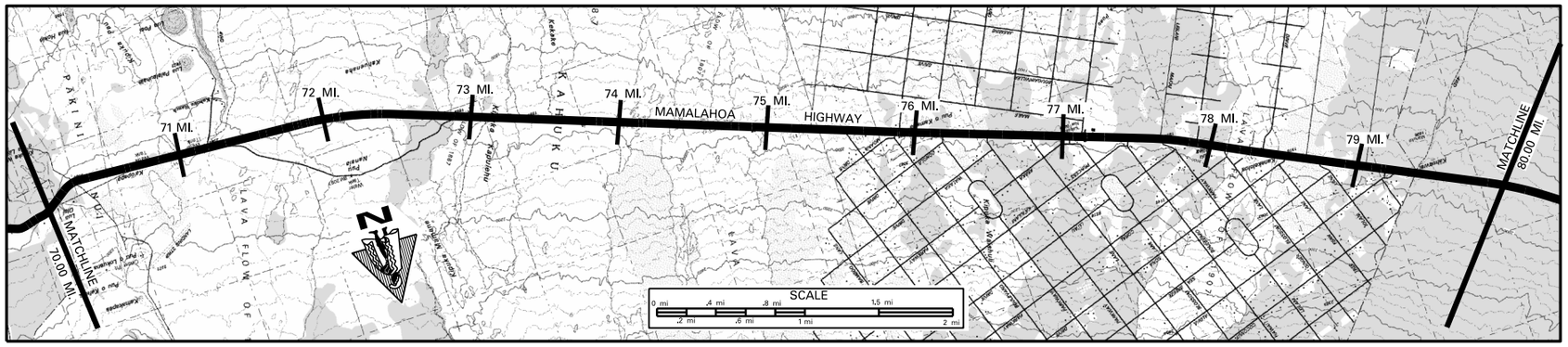
ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 11E (9.31 MI.); END 11D – BEGIN 11E ON MAMALAHOA HWY AT THE CENTERLINE OF IOLANI LANE. 76.00; 11D (9.85 MI.)

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

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

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

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

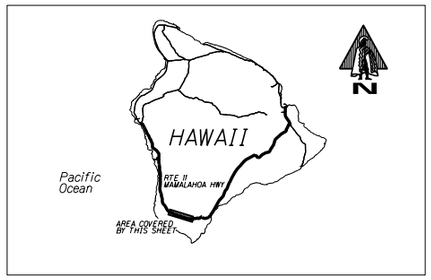
Right of Way Fence: Type – Right and Left: ROCK WALL; ROCK WALL; ROCK WALL; ROCK WALL; ROCK WALL; (ROCK WALL)

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

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE (831 + 00)

Project No., Type of Construction, and Year Constructed: 11E–01–10M, GUARDRAILS, 2011 (837 + 00); 11E–01–02M GUARDRAIL & SHOULDER IMPROVEMENT 2005 (610 + 00)

Project No., Type of Construction, and Year Constructed: 11EF–01–93M, (R), 1996; COUNTY (P–1957) 1977; 11EF–01–93M, (R), 1976; 11D–01–79M, (RESURF.), 1979



Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #7

HAWAII VOLCANOES NATIONAL PARK KAHUKU UNIT; OLD HAWAII BELT RD KAHUKU RANCH RD; ROAD; ENTRANCE/EXITS TO SCENIC LOOKOUT; TIKI LANE; KOHALA BLVD. KING KAMEHAMEHA BLVD.; DONOLA DR.; ORCHID PARKWAY; LEHUA LANE; LOTUS BLOSSOM LN BEG DIVIDED; PRINCE KUHIO DR. END DIVIDED; HAWAII BLVD.; LELANI PKWY. (R) LELANI MAKAI LP.; KONA KAI BLVD.; GINGER BLOSSOM LN; KONA GARDEN DR.; KONA DRIVE; IOLANI LANE; ALOHA BLVD.; ENTERING MANUKA (R) NATURE AREA RESERVE

MAMALAHOA HWY

70.5 MP; 71 MP; 71.5 MP; 72 MP; 72.5 MP; 73 MP; 74 MP; 75 MP; 76 MP; 77 MP 124 KM; 78 MP; 79 MP; 80 MP

70.261 MI.; 70.361 MI.; 70.853 MI.; 71.260 MI.; 71.343 MI.; 71.869 MI.; 71.835 MI.; 72.332 MI.; 72.821 MI.; 72.894 MI.; 73.735 MI.; 74.701 MI.; 74.725 MI.; 75.522 MI.; 75.686 MI.; 75.861 MI.; 75.887 MI.; 76.185 MI.; 76.481 MI.; 76.702 MI.; 76.784 MI.; 76.953 MI.; 77.038 MI.; 77.125 MI.; 77.260 MI.; 77.433 MI.; 77.671 MI.; 77.689 MI.; 77.859 MI.; 77.904 MI.; 78.094 MI.; 78.313 MI.; 78.506 MI.; 78.684 MI.; 78.739 MI.; 79.187 MI.; 79.548 MI.; 79.687 MI.

CONTINUED ON SHEET #9

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided
- Shoulder: Width and Type: 4'–6' AC; 8'–10' AC; 6' BP
- Pavement: Width and Type: 24' AC; 12' AC; 24' AC; 22' AC
- Shoulder: Width and Type: 4'–6' AC; 8'–10' AC; 0; 8'–10' AC; 6' BP
- Median: Width and Type: 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: 2–12'; 2–11'

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

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

Sidewalk: Width and Type (Right and Left)

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

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

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 06583

HPMS Sections – AADT 2016: 4,200

HPMS Sections – AADT 2015: 3,700

HPMS Sections – AADT 2014: 3,600

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

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

Previous Projects: Project No., Date and Limits: COUNTY (P–1829) 1974; COUNTY (P–1957) 1974; COUNTY (P–1957) 1977; 11E–01–75, 1976; 11EF–01–93M (R), 1976; COUNTY (P–2129) 1977; 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.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
1/13	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
2/18	D.B.

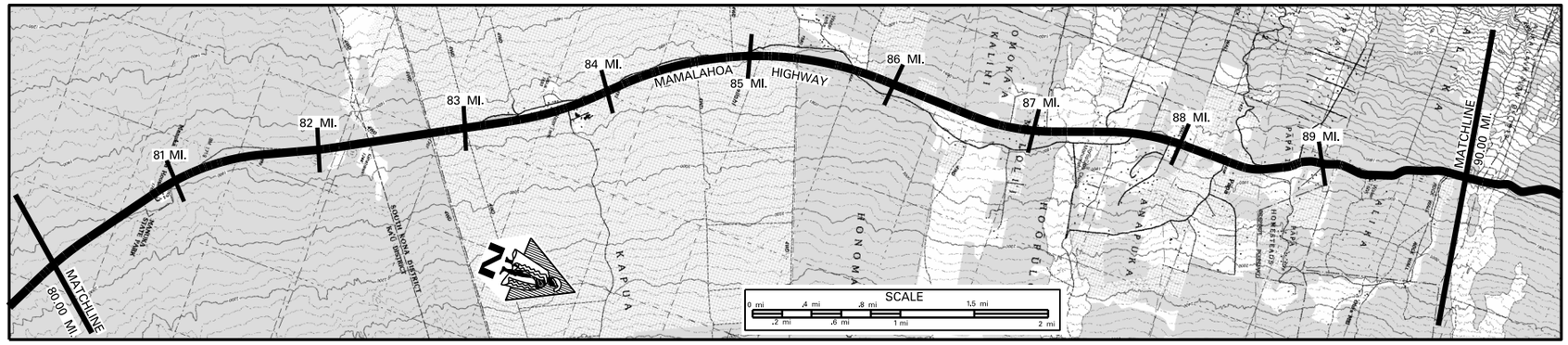
ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HWY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description
11 D (9.85 MI.) — END 11C – BEGIN 11D ON MAMALAHOA HWY AT THE CENTERLINE INTERSECTION WITH MILOLII ACCESS ROAD, — 11 C (12.43 MI.)

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

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

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

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

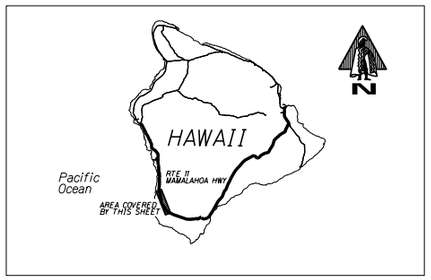
Right of Way Fence: Type – Right and Left
(ROCK WALL) — (STONEWALL 20' FROM E.P.) — (STONEWALL 20' FROM E.P.) — RUBBLE WALL 20' FROM E.P. FENCE — RUBBLE WALL 20' FROM E.P. FENCE

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

Jurisdiction, Transfer Phase No. and Date (C to S or S to C)
STATE — HHD = 70

Project No., Type of Construction, and Year Constructed
HSIP–011–1(25), SAFETY IMPRV., 2010

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



Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #8

MANUKA PARK ENTRANCE — DISTRICT OF KONA (R) KAU (L) 82.341 MI. — LEAVING MANUKA (L) NATURE AREA RESERVE — OLD MAMALAHOA HWY.(L) DRIVEWAY (R) — OLD MAMALAHOA HWY. KAPUA MAUKA ROAD — OLD MAMALAHOA HWY. — OLD MAMALAHOA HWY. — OLD MAMALAHOA HWY. — POWER SUB-STATION — OLD MAMALAHOA HWY. — PAIHI DRIVE — ENTRANCE TO JAMES STEWART RANCH — AINA LANI RD. — OHANA RD. — HOOPULOA FARMS ROAD — OLD MAMALAHOA HWY. — LANI KONA RD. — HONOMALINO RD. — PAPA HOMESTEAD RD.(L) MILOLII RD.(L) — PAPA BAY DRIVE — PAPALANI PLACE — ROAD — C.A. TEE HOP RANCH

MAMALAHOA HWY

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

80.637 MI. — 80.816 MI. — 81.683 MI. — 81.342 MI. — 82.682 MI. — 82.656 MI. — 83.011 MI. — 83.834 MI. — 83.682 MI. — 84.090 MI. — 84.743 MI. — 84.677 MI. — 84.960 MI. — 85.160 MI. — 85.708 MI. — 85.679 MI. — 86.033 MI. — 86.402 MI. — 86.679 MI. — 86.829 MI. — 87.083 MI. — 87.490 MI. — 87.680 MI. — 87.655 MI. — 87.933 MI. — 88.317 MI. — 88.574 MI. — 88.673 MI. — 88.821 MI. — 88.969 MI. — 89.304 MI. — 89.655 MI. — 89.866 MI.

CONTINUED ON SHEET #10

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

6' BP — 22' AC — 6' BP
(EDGELINE MILLED RUMBLE STRIP) — (EDGELINE MILLED RUMBLE STRIP) — (RAISED PAVEMENT MARKER CENTERLINE RUMBLE STRIP) — (CENTERLINE MILLED RUMBLE STRIP)
0'–6' GRASS — 8' AC — 0'–6' AC — 20' AC — 24' AC — 20' AC — 2'–8' GRAVEL — 8' AC — 2'–8' GRV

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

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

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

Sidewalk: Width and Type (Right and Left)

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

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

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development:
RURAL (99999)

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year)
B71 0011 06583

HPMS Sections – AADT 2016
4,200

HPMS Sections – AADT 2015
3,700

HPMS Sections – AADT 2014
3,600

DOD Sections

Census Tracts

Functional Classification
MINOR ARTERIAL (4)

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

Previous Projects: Project No., Date and Limits
11D–01–82M (RESURF.), 1982 — (11BC–01–91 (IMPRV., REALIGN.), 1993) — 11D–01–79M (RESURF.), 1979 — BF–011–1(3), 1961 — 11C–01–76M (RESURF.) 1976 — BF–011–1(3), 1959 — (FAP 8A, 1932) — FAP 8A, 1930

SCALE: (In Miles) 2" = 1 mile

Date Released
Feb 2001

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

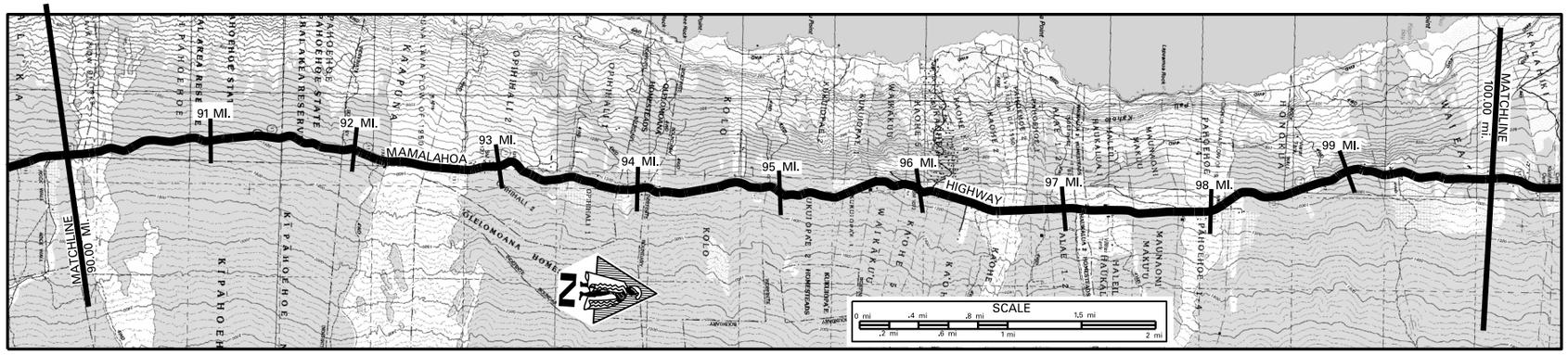
ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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

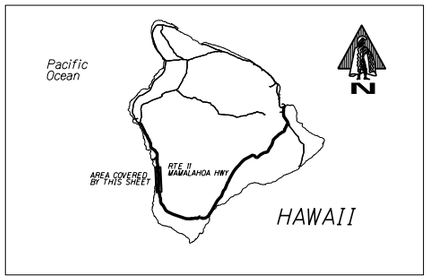


SCALE: (In Miles) 2" = 1 mile

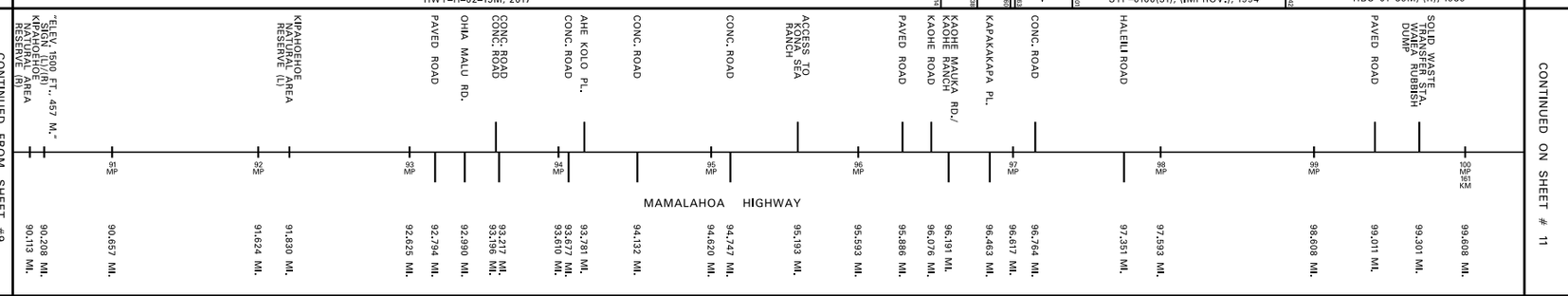
Maintenance Control Sections : Length and Description — 11 C (12.43 MI.)

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

Right of Way Width (min.–max.) If varies: 50′ | 80′ | 50′ | 80′ | 50′ | 80′ | 50′
Available Right of Way Width (Needs Study): LAVA ROCK AND LARGE TREES | LAVA ROCK & TREES | RESIDENTIAL AREA | BRUSH AND LARGE TREES
Right of Way Fence: Type – Right and Left: (STONE WALL 20′ FROM EDGE OF PAVMT) — RUBBLE WALL — (RUBBLE WALL) — FENCE — STONE WALL 20′ FROM EDGE OF PAVEMENT
Control of Access: 1–None, 2–Partial, 3–Full: NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE
Project No., Type of Construction, and Year Constructed: HSIP–011–1(25), SAFETY IMPRV., 2010 | STP–011–1(026), PAVEMENT PREVENTIVE MAINTENANCE, 2013 | 11BC–01–01M, (RESURFACE), 2004
Project No., Type of Construction, and Year Constructed: HWY–H–02–15M, 2017 | STP–0100(31), (IMPROV.), 1994 | 11BC–01–89M, (R), 1989



Road Diagram
* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

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

Number of Traffic Lanes: 2–10′ | 2–12′ | 2–10′ | 2–(8′–9′) | 2–(8′–9′) | 2–10′ | 2–(8′–9′) | 2–10′ | 2–9′ | 2–10′ | 2–(8′–9′)
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left): 2′ AC GUTTER | 1′ AC GUTTER | 2′ AC GUTTER
Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED
Illumination: Type, Location and Number
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: MOUNTAINOUS (3)
Speed: 1–Design, 2–Posted: 35 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0011 06583
HPMS Sections AADT 2016: 4,200
HPMS Sections AADT 2015: 3,700
HPMS Sections AADT 2014: 3,600 | 3,800
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (4)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

Date Released
Feb 2006, D.B.

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

ROAD INVENTORY
HAWAII RTE 11
MAMALAHOA HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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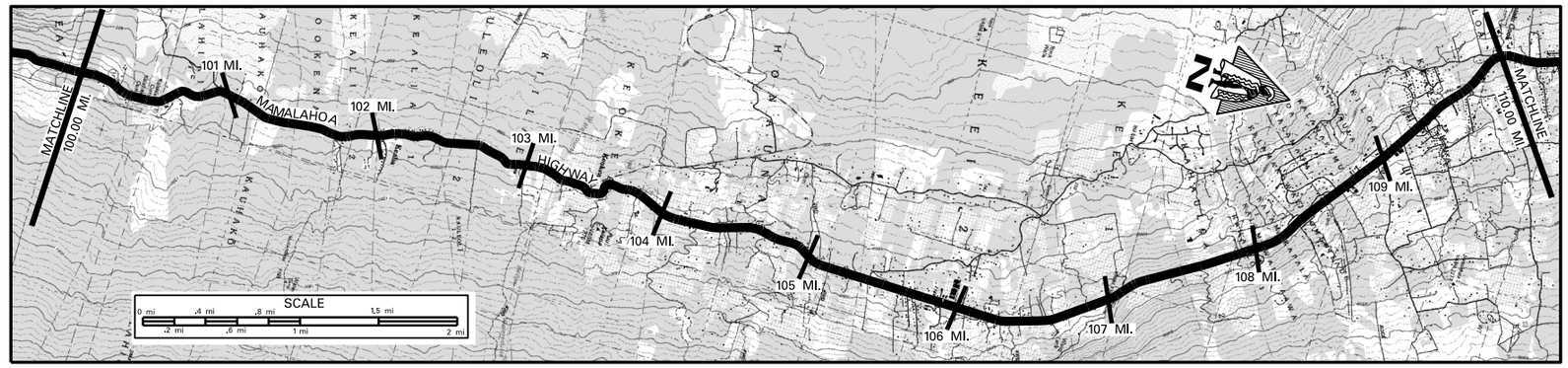
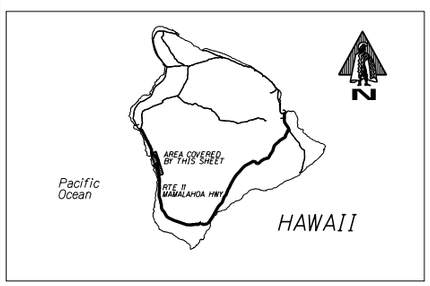


SCALE: (In Miles) 2" = 1 mile

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

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

Right of Way Width (min.–max.) If varies: 50′ | 50′–60′ | 60′
Available Right of Way Width (Needs Study): BRUSH & LARGE TREES | RESIDENTIAL AREA
Right of Way Fence: Type – Right and Left: STONE WALL 20' FROM EDGE OF PAVEMENT / STONE WALL 20' FROM EDGE OF PAVEMENT (FENCE) (CRM WALL) (FENCE) (CRM WALL) (FENCE) | 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): (11B–02–89, (WIDEN & RESURFACE), 1990) (11B–01–96M, (R), 1998) | STATE | COUNTY
Project No., Type of Construction, and Year Constructed: 11BC–01–01M, (RESURFACE), 2004 | 11B–01–96M, (RESURFACE), 1998
Project No., Type of Construction, and Year Constructed: 11BC–01–89M, (R), 1989 | 11BC–01–90, (IMPRV.), 1991 | (11BC–01–90, (IMPRV.) 1991) | 11B–01–86M, (R), 1986 | COUNTY



Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #10

CULVERT 100.327 MI. | HOOKENA BEACH RD. 100.599 MI. | KEALANUI O'AOI RD. 100.919 MI. | HOOKENA SCHOOL RDS 101.136 MI. | ROAD 101.591 MI. | ROAD 101.741 MI. | POWER SUB STATION 102.019 MI. | KIILAE RD. 102.785 MI. | ROAD TO CITY OF REFUGE (HONAUNAU-KEALAKEKUA RTE 160) 103.417 MI. | 1000' 305 M ELEV. (L)&(R) 103.700 MI. | TELEMETRY STATION HWY S. KONA BASEYARD 103.702 MI. | TELEGRAPH EXCHANGE RD. 104.257 MI. | MIDDLE KE'EI RD. 105.407 MI. | ROAD HONAUNAU ELEM. HOOLALA RD 105.594 MI. | NANAINA LANI PL. 107.911 MI. | KALAMALANI PL. 1500' 457 M ELEV. (L)&(R) 108.418 MI. | ANOHI PLACE 108.681 MI. | KILOA ROAD 109.378 MI. | END DIV. HWY 109.722 MI. | BEG. DIV. HWY 109.680 MI. | KAMAKANI ST. 109.336 MI. | CAPT. COOK RD. 109.026 MI. | KOA RD. 108.980 MI. | BEG. DIV. HWY SIGN 108.768 MI. | END DIV. HWY 109.584 MI. | CULVERT 101.341 MI. 101.297 MI. 101.264 MI. | GOVERNMENT CULVERT 108.147 MI. 108.100 MI. | GOVERNMENT MAIN RD. 108.601 MI. | CAPT. COOK RD. 108.269 MI. | KAMAKANI ST. 108.112 MI. | BEG. DIV. HWY 108.336 MI. | KOA RD. 108.980 MI. | END DIV. HWY 109.378 MI. | BEG. DIV. HWY 109.680 MI. | CAPT. COOK RD. 109.584 MI.

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

DOD 785 | DOD 790

MAMALAHOA HWY

CONTINUED ON SHEET #12

SCALE: (In Miles) 2" = 1 mile

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

Number of Traffic Lanes: 2–(8′–9′) | 2–9′ | 2–11′ | 2–9′ | 2–10′
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): 5′ AC SIDEWALK | 5′ AC SIDEWALK | 3′ AC SIDEWALK | (5′ AC SIDEWALK) | 3′ AC SIDEWALK | 2′ AC SIDEWALK | 4′ CONC. SW | 8′ CONC. SW
Curb and/or Gutter: Type (Right and Left): 1′ BITUMINOUS CURB | 1′ BITUMINOUS CURB | (BITUMINOUS CURB) | CONC. CURB | CONC. CURB
Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED
Illumination: Type, Location and Number — FLASHING SCHOOL SPEED LIMIT SIGNS | 1 MV | 20 MV
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62)
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: MOUNTAINOUS (3) | ROLLING (2)
Speed: 1–Design, 2–Posted: 35 MPH (2) | 45 MPH (2) | 35 MPH (2) | 45 MPH (MINIMUM 30 MPH) (2) | 45 MPH (2) | 30 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0011 06583 | B71 0011 10094 | B71 0011 10343 | B71 0011 10897 | B71 0011 10922
HPMS Sections – AADT 2016: 4,200 | 6,000 | 6,700 | 0 | 13,800
HPMS Sections – AADT 2015: 3,700 | 5,300 | 6,700 | 10,600
HPMS Sections – AADT 2014: 3,800 | 5,700 | 6,100 | 13,100
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (4) | PRINCIPAL ARTERIAL (3)
National Highway System (NHS): NOT ON NHS (0) | ON NHS (1)
Previous Projects: Project No., Date and Limits: 11BC–01–89M, (R), 1989 | 11B–01–96M, (RESURFACE), 1998 | 11B–01–81M, (RESURFACE), 1981 | (11B–03–70, 1971) | 11BC–01–89M, (R), 1989 | (HHS–01–1(15), 1976) | 11B–03–70, 1971 | NRH 8–E, 1936 | WPH 8–F, 1936 | COUNTY | WPH 8–F, 1936 | FAP 8–G, 1937 | COUNTY | FAP 8–C, 1931 | FAP 8–D, 1931 | NRH 8–E, 1935 | WPH 8–F, 1935 | EXCEPTION | WPH 8–F, 1935 | PROJ. #8–G | 450 + 98.73

SCALE: (In Miles) 2" = 1 mile

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

ROAD INVENTORY

HAWAII RTE 11

MAMALAHOA HWY, KUAKINI HWY, QUEEN KAAHUMANU EXT.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

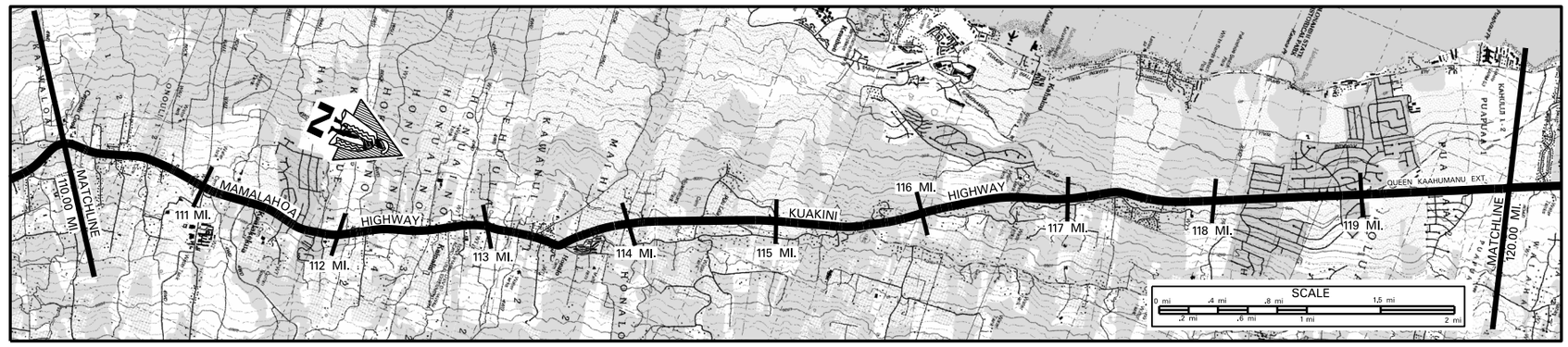
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 121.970 miles

a. Survey Length: 121.970 miles

b. Proposed Length: 0.00 miles

c. Other Length: 0.00 miles



SCALE: (In Miles) 2" = 1 mile

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

Structure Carrying Road

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

Structure Over Road

- Vertical Clearance
- Horizontal Clearance

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

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

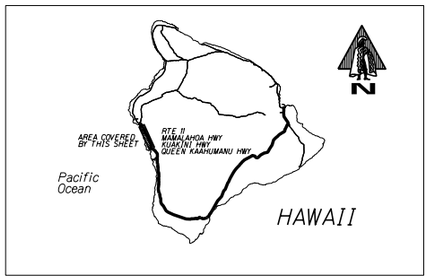
Right of Way Fence: Type – Right and Left: STONE WALL; STONE WALL

Control of Access: 1–None, 2–Partial, 3–Full: NONE (11A–03–01 UNIT1, ROADWAY & DRAINAGE IMPRV., 2010)

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): COUNTY; 312 + 00; 283 + 00; STATE; 260 + 68.41

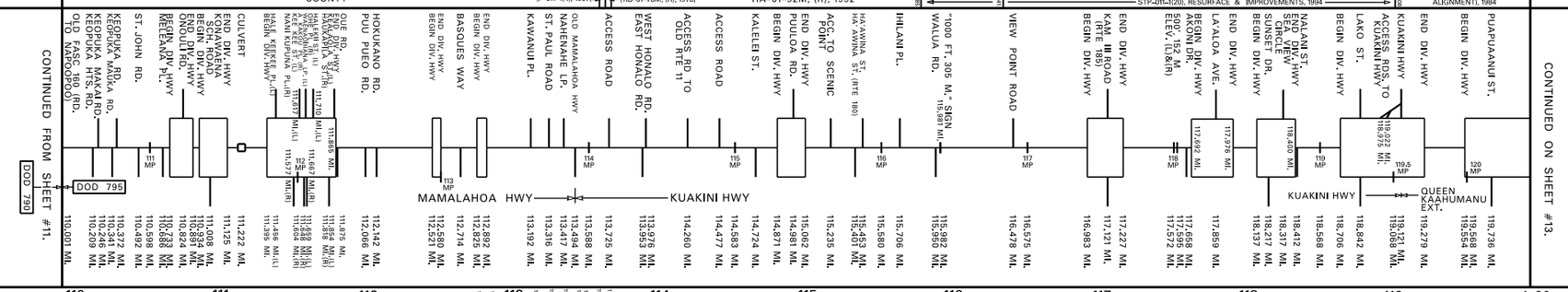
Project No., Type of Construction, and Year Constructed: (F–011–1(4), 1967); (11B–01–78M, (R), 1978); 11A–01–92M, (R), 1992; (STP–011–1(23), (DRAINAGE), 2000); STP–011–1(20), RESURFACE & IMPROVEMENTS, 1994; 11A–01–04M, RESURF., 2010; F–011–1(14), (NEW ALIGNMENT), 1984

Project No., Type of Construction, and Year Constructed: 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 Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development:

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

Speed: 1–Design, 2–Posted

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year)

HPMS Sections – AADT 2016

HPMS Sections – AADT 2015

HPMS Sections – AADT 2014

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (3)

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

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

Date Released	
Feb 2006	D.B.
Revised	
6/06	D.B.
2/08	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
1/13	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

ROAD INVENTORY
HAWAII RTE 11
QUEEN KAAHUMANU EXT.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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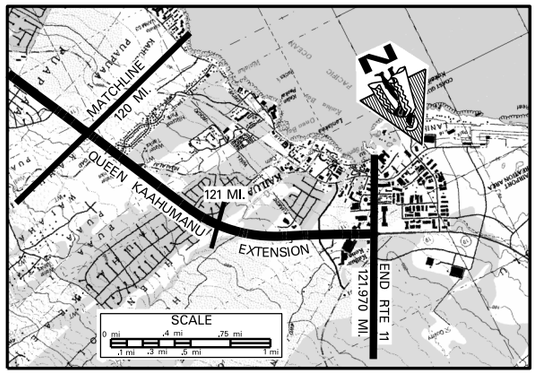
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 121.970 miles
- **a. Survey Length:** 121.970 miles
- **b. Proposed Length:** 0.00 miles
- **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 — 175'
- Vertical Clearance
- Horizontal Clearance

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.-max.) If varies: 170'-450' (120.07); 210' (120.07); 300' (120.09); 110' (120.17); 265' (120.17); 170' (120.27); 210' (120.27); 220'-260' (120.28)

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

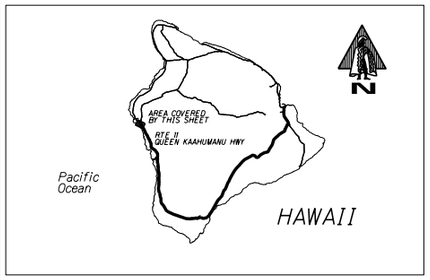
Right of Way Fence: Type – Right and Left: (11A-01-04M, RESURF, 2010)

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

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

Project No., Type of Construction, and Year Constructed: 193 + 00 (120.37); 187 + 56; 125 + 93.60; 115 + 00 (120.70); 95 + 30

Project No., Type of Construction, and Year Constructed: (F-011-1(4), (NEW ALIGNMENT), 1984) — F-011-1(4), (NEW ALIGNMENT), 1984 (120.48); NH-019-01(20) WIDENING, 2009 (120.88)



Road Diagram

* MP = Milepost Signage

CONTINUED FROM SHEET #12

HUALALAI ROAD — HUALALAI RD END DIV HWY. — BEG. DIV HWY. END DIV HWY. ROAD — NANI-KAILUA DR. — END DIV HWY. PONI PL. — MALULANI DR (R) BEG. DIV HWY. — HENRY ST. — (SEE DETAIL #1)

TELEM. STA. S9 120.552 MI.

120.322 MI. — 120.5 MP — 121 MP .580 MI. — 121.5 MP — 121.893 MI. — 122 MP

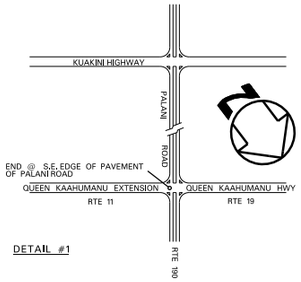
QUEEN KAAHUMANU EXT.

120.154 MI. 120.076 MI. — 120.369 MI. — 120.606 MI. 120.576 MI. 120.550 MI. — 120.797 MI. — 120.989 MI. 120.930 MI. — 121.077 MI. — 121.463 MI. 121.391 MI. — 121.637 MI. 121.576 MI.

END DOD 805

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE. * 121.970 MI.

END RTE 11 ON QUEEN KAAHUMANU EXT. AT THE SOUTHEAST EDGE OF PAVEMENT OF PALANI ROAD (RTE 190).



DETAIL #1

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided
- Shoulder: Width and Type: 10' AC; 6' AC BIKE LANE (120.97)
- Pavement: Width and Type: 12' AC (24' AC); 12' AC; 24' AC; 24' AC
- Shoulder: Width and Type: 0 (10' AC); 0; 10' AC; 0 (2' AC)
- Median: Width and Type: 12' PAINTED MEDIAN (120.03); 12' PAINTED MEDIAN (120.08); 0-30' PAINTED MEDIAN (120.55); (14' GRS (RAISED))
- Median Barriers:
- Shoulder: Width and Type: 0; 0; 0 (2' AC)
- Pavement: Width and Type: 12' AC; 12' AC; 24' AC
- Shoulder: Width and Type: 10' AC; 10' AC; 10' AC (120.94) (8' AC BIKE LANE)

Number of Traffic Lanes: 2–12'; 4–12'

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

(Right Side)

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

Sidewalk: Width and Type (Right and Left)

Curb and/or Gutter: Type (Right and Left): (ALL 12' TLs); ALL CONC. GUTTERS (120.03); (120.21); (120.21) C & G; (120.21) C & G

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

Illumination: Type, Location and Number: 4 LPS – LOW PRESSURE SODIUM (120.17); (120.28)

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

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): B (120.43); C; B (120.76); C (120.81); B (120.94)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: SMALL URBAN (99998)

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

Speed: 1–Design, 2–Posted: 45 MPH (2); 35 MPH (2) (120.33)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0011 11913; B71 0011 12038; B71 0011 12081

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

HPMS Sections – AADT 2015: 27,000; 25,900; 25,000 (120.70)

HPMS Sections – AADT 2014: 24,400; 23,800; 22,800 (120.94)

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (3)

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

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

SCALE: (In Miles) 2" = 1 mile

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

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

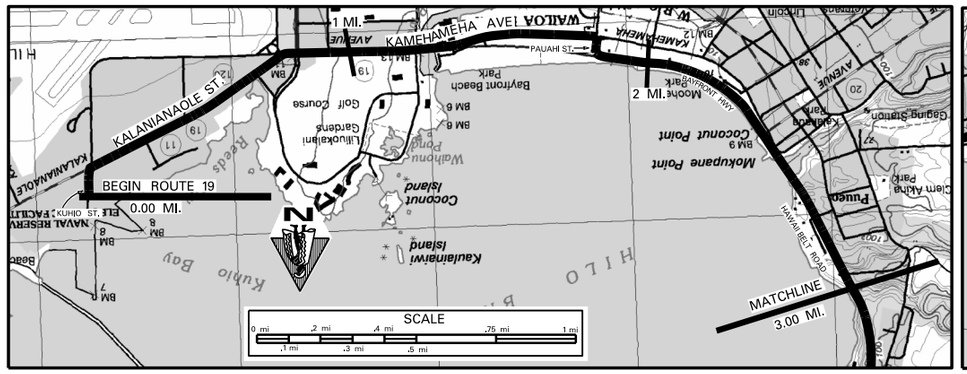
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

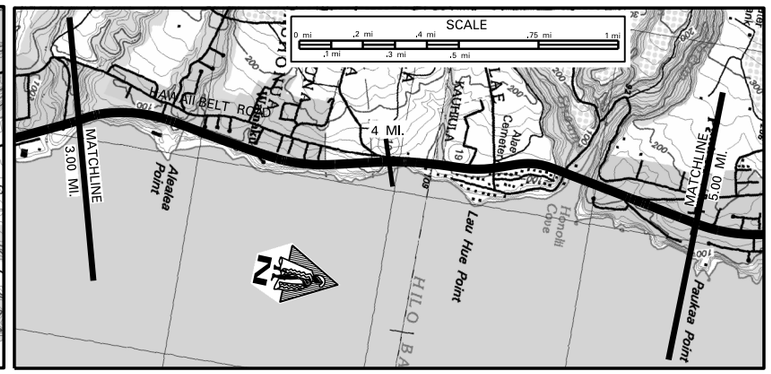
PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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

*





SCALE: (In Miles) 4" = 1 mile

Maintenance Control Sections : Length and Description

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

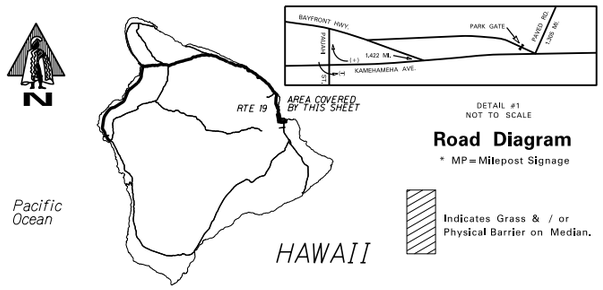
Structure Carrying Road

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

Structure Over Road

Vertical Clearance				23'-02" (3.09) / 18'-02" (3.26)	
Horizontal Clearance				57' / 44'	

Right of Way Width (min.-max.) If varies		75'-120' (2.29–3.43)			70'-261'
Available Right of Way Width (Needs Study)					
Right of Way Fence: Type - Right and Left					
Control of Access: 1-None, 2-Partial, 3-Full	NONE (0.84)	PARTIAL (2.96)			NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)	STATE (1.30)	COUNTY (1.83)		76 + 50 / 99 + 50 STATE	
Project No., Type of Construction, and Year Constructed	(STP-019-2(32), (RESURFACE))	(BR-F-019-2(27), 1993 BRIDGE REPLACEMENT)	(SDR 3(8), 1950)	BR-019-2(50), 2009, OVERPASS REMOVAL (2.67–3.36)	(19J-01-97M, (R), 1999)
Project No., Type of Construction, and Year Constructed	STP-0100(037), (IMPRV.), 1997 (0.15–0.75)	NH-019-2(54), (BIKEWAY IMPRV.), 2003 (1.48–1.49)	STP-019-2(31), (R), 1995 (2.49–2.56)		STP-019-2(34), (RESURFACE), 1998 (2.67)



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 (0 MP) — KUMAU ST. — PAVED ROAD — KEAA ST. — PAVED ROAD — END DIV. HWY. & BANYAN WAY — BEG. DIV. HWY — KAMEHAMEHA AVE. — KANGELEHUA AVE. (R) — BANYAN DR. (R) — KALANIKOA ST. — BEG. DIV. HWY — WAILOA BRIDGE — MANONO ST. (L) — PAVED ROAD — ONE WAY ROAD — ROAD FROM PARKING LOT — BISHOP ST. — BAYFRONT HWY. — PAUAHI ST. — END DIV. HWY — BEG. DIV. HWY — WAILUKU BR. — END DIV. HWY — WAIANUENUE AVE. (FAU-C 1950) — PUKIHAE ST. — PUKIHAE BRIDGE — END DIV. HWY — HILO PLNT. RD. O.P. — HAU LN. — HILO PLNT. MILL RD. (R) — HILO PLNT. FLUME O.P. — BEG. DIV. HWY — SCENIC LOOKOUT — WAINAKU ST. — ALAE CEMETERY ENTRANCE — NAHALA ST. (R) — KAUHULA RD. (L) — HONOLII BRIDGE — KULANA ST. EXT. — PAUKAA DR. — BEG. DIV. HWY — END DIV. HWY — KAHOA PL. — 5.00 MI.

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

0.103 MI. (0.083 MI.) (0.055 MI.) (0.005 MI.) — 0.284 MI. — 0.341 MI. — 0.425 MI. — 0.622 MI. — 0.692 MI. — 0.776 MI. — 0.836 MI. — 0.935 MI. — 1.057 MI. — 1.220 MI. (1.206 MI.) — 1.306 MI. — 1.422 MI. — 1.537 MI. — 1.660 MI. — 1.820 MI. (1.770 MI.) — 2.003 MI. — 2.325 MI. — 2.443 MI. — 2.521 MI. (2.494 MI.) — 2.741 MI. — 2.783 MI. — 2.877 MI. — 3.084 MI. — 3.136 MI. — 3.178 MI. — 3.251 MI. — 3.303 MI. — 3.369 MI. — 3.573 MI. — 4.084 MI. — 4.229 MI. — 4.316 MI. — 4.533 MI. — 4.717 MI. (4.738 MI.) (4.780 MI.) (4.815 MI.) — 4.896 MI. — 4.976 MI.

CONTINUED ON SHEET #2

SCALE: (In Miles) 4" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type	(6' GRS.) 25' GRASS	6'-15' GRASS (4'-6' AC)	5' AC SHLDR. / BIKELANE	2'-4' AC	8'-20' AC / 0'-1' AC
Pavement: Width and Type (ALL PAVEMENT AC)	28' (16')	28' (25' GRS./GRV.)	45'	24' AC	28' AC / 12' AC
Shoulder: Width and Type	(6'-8' GRASS)	8'-12' GRS. (32' GRV.)	5' AC SHLDR. / BIKELANE	0	1' AC / 8' AC
Median: Width and Type		(0'-12' PAINT)	0'-20' PAINTED AC		0'-20' RAISED GRASS
Median Barriers:	(0'-9' PAINT)				
Shoulder: Width and Type	0	0	0	1' AC	
Pavement: Width and Type (ALL PAVEMENT AC)	(15')	12'	22' AC		11' AC / 20' AC
Shoulder: Width and Type	0	(8'-16' AC)	5' AC SHLDR. / BIKELANE	8' AC	0'-1' AC / 2' AC

Shoulder: Width and Type	8' AC	30' AC	4' AC		8' AC
Pavement: Width and Type (ALL PAVEMENT AC)	12' AC (20' AC)	24' (38')	12' / 27'	24' (22' AC)	12' AC / 24' AC
Shoulder: Width and Type	8' AC	0	4' AC		0 / 6' AC
Median: Width and Type	(0'-14' PAINTED AC)	2'-12' RSD GRSS	(0'-6' PAINTED AC) (0'-19' PAINTED AC)	(2'-15' AC CURB)	0'-12' PAINTED AC
Median Barriers:					
Shoulder: Width and Type	1' AC	0	1' AC		0
Pavement: Width and Type (ALL PAVEMENT AC)	20' AC	20' AC / 16' AC	26' (M/M)		12' AC
Shoulder: Width and Type	8' AC	5' AC	4' AC		8' AC

Number of Traffic Lanes	(2-14') 2-14'	2-12'	2-12'	2-12'	(2-11') 2-12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	11' TL	2-12' TLs	11' TL	12' TL	12' TL 12' ACC. LN.
(Right Side)	12' TL 10' T.L.	12' T.L.	11' TL	10' T.Ls	11' TL
Frontage Road: No. of Lanes, and Width (Right and Left)					
Sidewalk: Width and Type (Right and Left)	(8' CONCRETE)	8' CONC.			
Curb and/or Gutter: Type (Right and Left)	(CONC. CURB)	CONC. CURB / CONC. CURB	CURB + GUTTER	CURB + GUTTER 2.45	
Protective Devices: Type, Location and Number (ALL METAL ON METAL (UNLESS NOTED OTHERWISE))	METAL RAIL	METAL RAIL	WOOD ON WOOD	K-RAIL	
Illumination: Type, Location and Number					
Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.85) E(13.85-28.62) F(<28.62)	A	A	FAF AB	A	B A
Superelevation (Range)					
Grades Class: +/- % (A(0-.45) B(.45-2.45) C(2.45-4.45) D(4.45-6.45) E(6.45-8.45) F(<8.45)	B A	IB A	B	A	B A C A
Vertical Curve: Crest or Sag, Curve Limits					
Area and Development:		SMALL URBAN (99998)			RURAL (99999)
Terrain: 1-Flat, 2-Rolling, 3-Mountainous		FLAT (1)			ROLLING (2)
Speed: 1-Design, 2-Posted	25 MPH (2)	35 MPH (2)			45 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing		3 PHASE			
Traffic Stations (Current Year)	B71 0019 00000	B71 0019 00008	B71 0019 00079	B71 0019 00120	B71 0019 00178
HPMS Sections - AADT 2016	7,900	14,200	17,200	22,500	10,200
HPMS Sections - AADT 2015	1,300	9,900	10,700	21,600	8,400
HPMS Sections - AADT 2014	2,900	14,400	14,600	23,400	N/A
DOD Sections					
Census Tracts					
Functional Classification			PRINCIPAL ARTERIAL (3)		
National Highway System (NHS)			ON NHS (1)		
Previous Projects: Project No., Date and Limits		STP-019-2(32), (R), 1996 (0.76–1.07)			
			BR-F-019-2(27), (BR, REPLACEMENT), 1993 (1.00–1.49)		
		STP-0100(037), (IMPRV.), 1997 (0.76–0.81)	19L-01-62M, (R), 1982		
		0.15-19L-01-82M, (R), 1982		19L-01-79M, (R), 1979 (1.31)	
			SDR-2(2), 1951		(SDR 3(8), 1950)— 2.49
		COUNTY TO STATE (PHASE 1) (1.42)			60 + 00 / 0 + 00 / 2.57 / 66 + 64

Shoulder: Width and Type	4' AC				8' AC
Pavement: Width and Type (ALL PAVEMENT AC)	24'	12' / 27'	53'	24' (22' AC)	12' AC / 24' AC
Shoulder: Width and Type	4' AC	0			0 / 6' AC
Median: Width and Type					0'-12' PAINTED AC
Median Barriers:					
Shoulder: Width and Type					0
Pavement: Width and Type (ALL PAVEMENT AC)		26' (M/M)			12' AC
Shoulder: Width and Type		4' AC			8' AC

Number of Traffic Lanes	2-12'				2-12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)		12' TL	12' T.Ls	11' 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 (ALL METAL ON METAL (UNLESS NOTED OTHERWISE))					
Illumination: Type, Location and Number					
Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.85) E(13.85-28.62) F(<28.62)	A	B	A		
Superelevation (Range)					
Grades Class: +/- % (A(0-.45) B(.45-2.45) C(2.45-4.45) D(4.45-6.45) E(6.45-8.45) F(<8.45)	A	B	A		
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)	B71 0019 00245		B71 0019 00326		
HPMS Sections - AADT 2016	14,800		11,000		
HPMS Sections - AADT 2015	12,600		11,000		
HPMS Sections - AADT 2014	14,300				
DOD Sections					
Census Tracts					
Functional Classification					
National Highway System (NHS)					
Previous Projects: Project No., Date and Limits					
	19K-01-85M, (RESURFACE), 1985				4.60 19J-02-88M, (R), 1988
	132 + 42 19 K-01-72, (R), 1972	3.32	19JK-01-70 (RESURFACE & REHAB) 1971		
	SDR 3(1), 1948				4.65 SDR-3(4), 1950

Date Released
Feb 2006, D.B.

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

ROAD INVENTORY

HAWAII RTE 19
HAWAII BELT ROAD

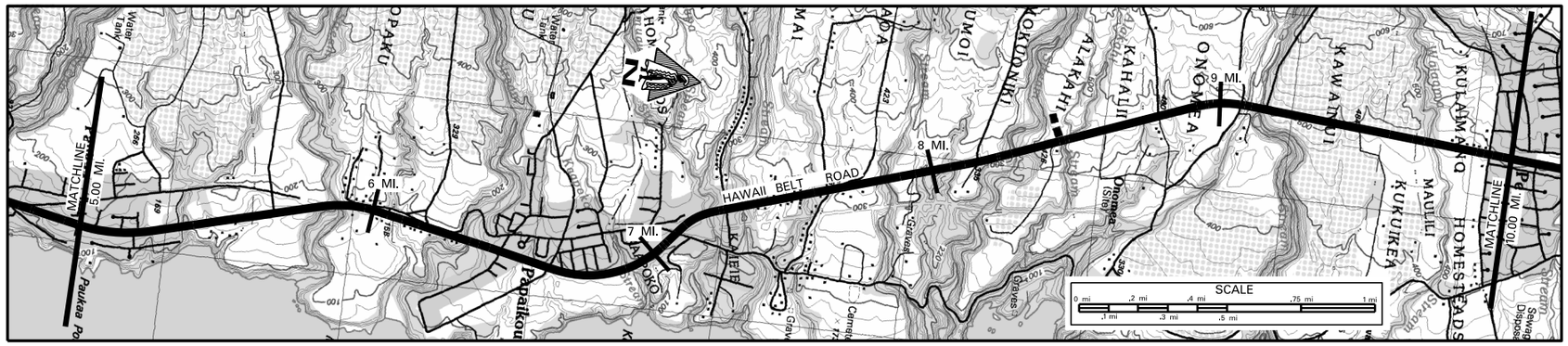
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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

*



SCALE: (In Miles) 4" = 1 mile

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

Structure Carrying Road

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' (9.09)	198' (9.66)
Horizontal Clearance	24'	28'	28'	28'	28'	24'	28'

Structure Over Road

Vertical Clearance	15' 11"
Horizontal Clearance	42' (7.04)

Right of Way Width (min.–max.) If varies: 70'–261' (5.14); 70'–125'; (5.53); 100'–250'; (7.08); 80'–135'

Available Right of Way Width (Needs Study): (SUGAR CANE) (9.09); RESIDENTIAL (9.68)

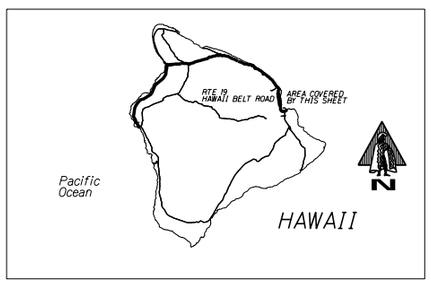
Right of Way Fence: Type – Right and Left: NONE

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

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): 82 + 50 (6.20); (7.31); (7.34)

Project No., Type of Construction, and Year Constructed: 19J-01-10,SAFETY IMPROV.,2015; NH-019-2(067) RESURFACING 2017

Project No., Type of Construction, and Year Constructed: 19J-01-97M, (R), 1999; 19 + 00; STP-019-2(35), (RESURFACE), 1997; 144 + 50



Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #1

5.00 MI.

KUKAHI ROAD 5.170 MI. / NANEA ROAD 5.127 MI.
HIKINA PLACE 5.466 MI. / LALI PLACE 5.418 MI.
KULANA ST. 5.651 MI.
PAHOEHOE BR. 5.778 MI. (6 MP)
KAPUE RD. 5.864 MI. / ROAD TO PUUEOPAKU 6.040 MI.
KAPUE BRIDGE 6.106 MI.
MILL RD. 6.298 MI.
KOPILIMAI RD.(R) 6.439 MI. / PAPAIKOU RD.(L) 6.606 MI.
OLD MAMALAHOA HWY 6.776 MI. (7 MP)
KAEIE BRIDGE 7.091 MI. / KAEIE RD. 7.280 MI.
KALAOA CAMP RD. 7.319 MI. / PUUMOI RD. 7.629 MI.
KALAOA BRIDGE 7.688 MI. (8 MP)
TELEM. STAT. 17J 7.807 MI. / HANAWI ST. 8.017 MI.
INDIAN TREE RD. 8.047 MI.
HANAWI BRIDGE 8.137 MI.
ALAKAHI PL. 8.235 MI.
KAHALII PL. 8.429 MI. (9 MP)
CINDER HILL RD. 8.587 MI. / KAWAINUI BRIDGE 8.764 MI. / OLD ONOMEA RD.(R) 9.142 MI. / ONOHI LP.(L) 9.109 MI.
OLD MAMALAHOA HWY 9.053 MI.
BEGIN DIV. HWY 9.465 MI. / WAIAAMA BRIDGE 9.764 MI.
KULAIMANO RD. 9.692 MI. (STA 153 + 75) (10 MP)
9.910 MI.

HAWAII BELT ROAD

CONTINUED ON SHEET #3
10.00 MI.

SCALE: (In Miles) 4" = 1 mile

Divided Highway

Undivided	Shoulder: Width and Type	6' AC	5'–10' AC	6' AC	5'–8' AC	8'–14' GRASS/GRAVEL	4' AC	8'–18' GRAVEL	11'–19' GRAVEL / 3' AC / 6' AC (2'–4' AC)
	Pavement: Width and Type		24' AC			22' AC		35' AC	22' AC / 12' AC
	Shoulder: Width and Type	6' AC	5' AC	6' AC	6" AC / 6" AC	8'–12' GRASS/GRAVEL	4'–6' AC	6'–15' GRAVEL	18'–23' GRAVEL / 3' AC / 0
Divided	Median: Width and Type								10'–15' AC/GRV / (0'–12' PAINTED MEDIAN)
	Median Barriers:				MILLED CL RUMBLE STRIP	(8'–10' GRASS)			
	Shoulder: Width and Type								0
	Pavement: Width and Type								12' AC
	Shoulder: Width and Type								6' AC (8'–18' GRAVEL)

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

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): (10' TL)

(Right Side): 1–13' TRUCK CLIMBING LANE

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

Sidewalk: Width and Type (Right and Left)

Curb and/or Gutter: Type (Right and Left): QWICK KURB SYSTEM

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

Illumination: Type, Location and Number: 7 Low Pressure Sodium

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

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

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

Intersection Control Devices: Type, Location and Cycle Timing: FLASHING WARNING LIGHTS

Traffic Stations (Current Year): B71 0019 00326; B71 0019 00645; (B71 0019 00992)

HPMS Sections – AADT 2016: 11,000; 10,100; (8,500)

HPMS Sections – AADT 2015: 11,000; 9,800; (6,700)

HPMS Sections – AADT 2014: 14,300; 12,100; 9,800; (7,800)

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (3)

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

Previous Projects: Project No., Date and Limits: (19HJ-02-95M, (BRIDGE REPAIR), 1996); 19J-02-88M, (R), 1988; 19 JK-01-70, (RESURF, & REHAB), 1971; SDR-3(4), 1960; 19GHJ-01-78M, PMS-0100(11), UNIT 2, RESURFACE 1978; (F-019-2(8), 1968); 19J-01-85M, (R), 1985; 19J-02-75, UNIT I, TRUCK CLIMBING LANE, 1979; F-AF 14B(1), 1949; 19GHJ-01-76, (R), 1976; 19J-03-85M, (R), 1985; 19GHJ-01-76M, (R), 1976; 19J-01-02 IMP 2005)

SCALE: (In Miles) 4" = 1 mile

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

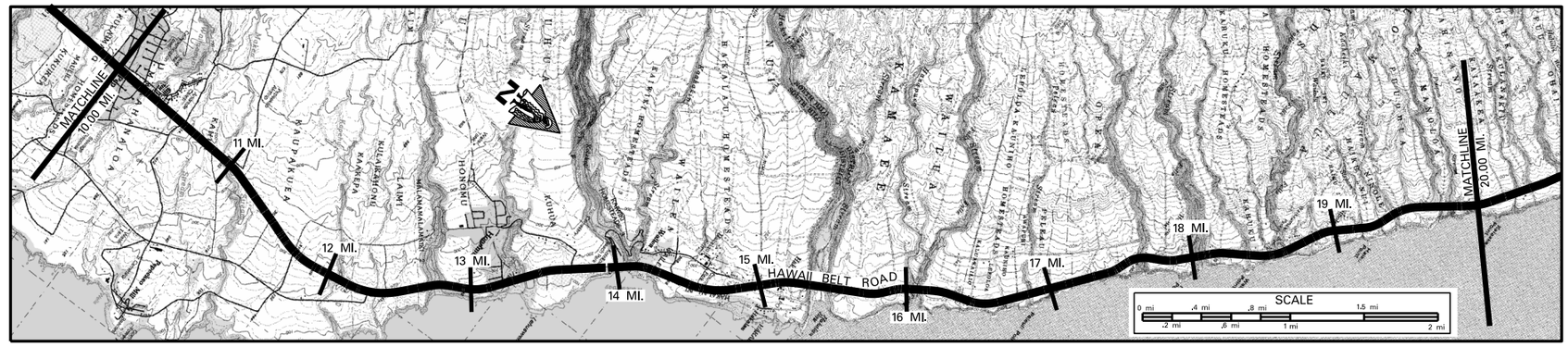
ROAD INVENTORY
HAWAII RTE 19
HAWAII BELT ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



SCALE: (In Miles) 2" = 1 mile

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

Structure Carrying Road

Bridges (Over 20'): Length, Type, Capacity and Year Constructed: STEEL MULTI-STRINGER 195, H-20 (225'); STEEL GIRDER AND FLOORBEAM 1950, H-20 (497'); H-20, 1953 (775'); H-20, 1952 (281'); STEEL MULTI-STRINGER 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)

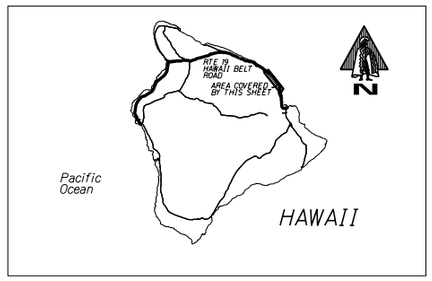
Right of Way Fence: Type – Right and Left

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

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE (6 + 24.21); (25 + 00); (35 + 00)

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

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



Indicates Grass & / or Physical Barrier on Median.

Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #2 — 10.00 MI.

KA'AKEPA ST. (10.5 MP); END DIV. HWY; SUGAR MILL RD. (R), KAUPAKUEA HOME STD. ROAD (L); OLD HWY. MAMALAHOA (11 MP); PEPEEKEO PLANTATION O.P. (11.5 MP); ROADS; PAVED ROAD (12 MP); PAVED ROAD (12.5 MP); END DIVIDED HWY; BEG. DIVIDED HWY; PAHEHEE BRIDGE; HONOMU ROAD (KAKAKA FALLS, RTE 220) (13.5 MP); HONOMU SOLID WASTE TRANSFER STA. (13 MP, 21 KM); KOLEKOLE BRIDGE; RD. TO KOLEKOLE BEACH PARK; CULVERT (14.5 MP); ROAD; ROAD; RD. (L) HAKALAU (R) CHIN CHUCK O.P. PEDESTRIAN O.P. (15 MP); HAKALAU BRIDGE; HAKALAU CULVERT; HAKALAU STATION O.P. (15.5 MP); DISTRICT OF N. HILO (-) DISTRICT OF HILO (-) SIGNS; LEOPOLINO RD. (16 MP); UMAUMA BRIDGE (17 MP); KAUNIHO ROAD; OPEA BRIDGE (18 MP); NANUE BRIDGE; PAVED ROAD; PAVED ROAD; WAIKAUMALO BR.; HANAMALO LN. OLD MAMALAHOA HWY (ROAD TO PARK) (19 MP); WAIKOLU BRIDGE; NNOLE BRIDGE; PAVED ROAD; MANOLOA BR. ROAD (20 MP)

HAWAII BELT ROAD

10.175 MI. / 10.245 MI. / 10.332 MI. / 10.560 MI. / 10.767 MI. / 10.933 MI. / 11.268 MI. / 11.441 MI. / 11.705 MI. / 11.715 MI. / 11.888 MI. / 11.937 MI. / 12.169 MI. / 12.230 MI. / 12.376 MI. / 12.464 MI. / 12.768 MI. / 13.272 MI. / 13.328 MI. / 13.384 MI. / 13.686 MI. / 13.775 MI. / 13.977 MI. / 13.983 MI. / 14.221 MI. / 14.338 MI. / 14.380 MI. / 14.560 MI. / 14.767 MI. / 14.951 MI. / 14.974 MI. / 15.176 MI. / 15.197 MI. / 15.320 MI. / 15.467 MI. / 15.765 MI. / 15.807 MI. / 16.036 MI. / 16.445 MI. / 16.764 MI. / 17.625 MI. / 17.764 MI. / 17.926 MI. / 18.002 MI. / 18.386 MI. / 18.567 MI. / 18.758 MI. / 18.850 MI. / 18.916 MI. / 19.173 MI. / 19.415 MI. / 19.538 MI. / 19.742 MI. / 19.868 MI.

CONTINUED ON SHEET #4 — 20.00 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided

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

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

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

Median: Width and Type: (0'-7' PAINT)

Median Barriers:

Shoulder: Width and Type: 0'-12' PAINTED MEDIAN / 0

Pavement: Width and Type: 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): TRUCK CLIMBING LANE – 12'

(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): (6' AC GUTTER)

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

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0019 00992; B71 0019 01329

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

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

HPMS Sections – AADT 2014: 7,900

DOD Sections: 6,252; 6,148

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (3)

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

Previous Projects: Project No., Date and Limits: (19J-03-85M (R), 1985); TRUCK CLIMB LANES; 19J-02-85, 1987; 19J-02-75, U-2, 1982; 19J-01-88M, (R), 1988; 19J-01-87M (R) 1987; 19J-01-78M, RESURFACE, 1978; FA-F14B(1), 1949; SDR-3(2), 1951; (19H-01-70, (R), 1971); (F-FR-019-2(31), RESURFACE, 1983); STP-019-2(36), (R), 1998; STP-0100(31), 1994; SDR-3(10), 1955; SDR-3(12), 1950; SDR-3(13), 1950; SDR-3(14), 1950; SDR-3(3), 1948; SDR-3(15), 1950; (19H-02-87M (R), 1987); (19GHJ-01-76M, (R), 1976

SCALE: (In Miles) 2" = 1 mile

Date Released
Feb 2006, D.B.

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

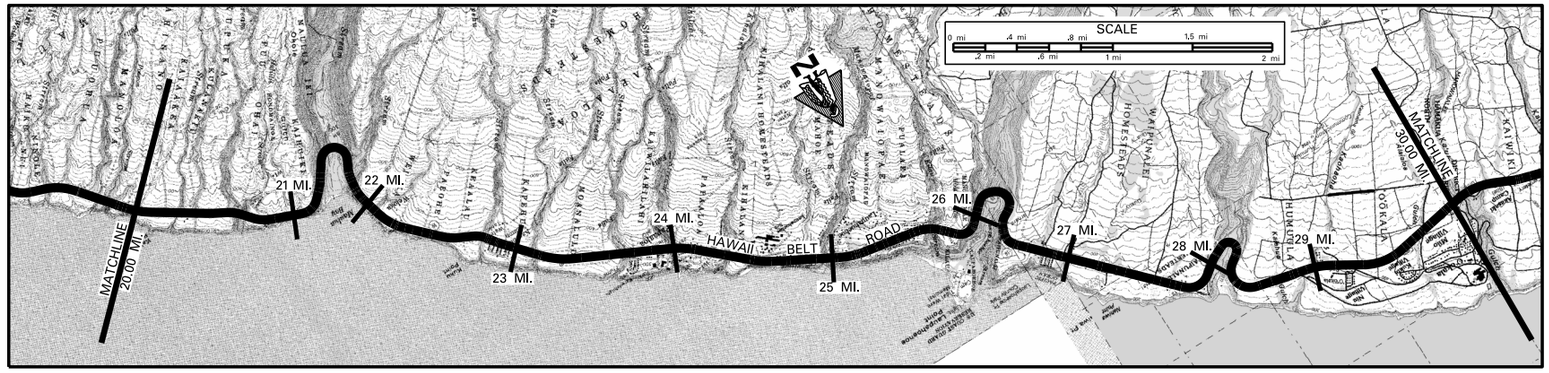
ROAD INVENTORY
HAWAII RTE 19
HAWAII BELT ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



SCALE: (In Miles) 2" = 1 mile

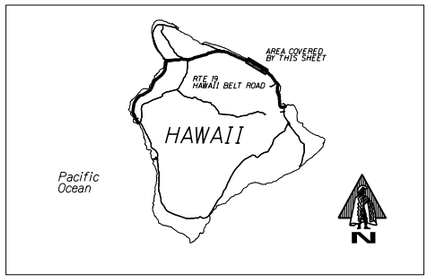
Maintenance Control Sections : Length and Description
19H (14.26 MILES) | END 19G – BEG 19H AT THE CENTERLINE OF OOKALA ACCESS ROAD | 19G (12.57)

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

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

TEE BEAM 1934, H=10 – 137' | CONC. FRAME 1953 HS–20 – 65' | STEEL MULTI STRINGER 1953, HS–20 – 280' | TEE BEAM 1933, H=15 – 131', 133' | TEE BEAM 1956, HS–20 – 246', 219' | CONC. BOX GIRDER, HS–20 – 331' (1956), 194', 234' (1957) | TEE BEAM, HS–20, 1953 – 225'
STEEL MULTI STRINGER, 1957, HS–20
22', 32', 30', 22', 22', 28', 28', 28', 28', 28', 28'
16'–4"
40' (BUSHES, TREES, CANEFIELD)

Right of Way Width (min.–max.) If varies: 70' – 160'; 100' – 220'; 50'; 100' – 215'; 100'; 100' – 150'; 95' – 165'; 100' – 140'
Available Right of Way Width (Needs Study): BRUSH AND LARGE TREES; 1000' CLEAR SUGAR CANE 20' FROM PAVEMENT; RESIDENTIAL AREA; LARGER TREES AND CUT SLOPES; BRUSH; 1000' CLEAR – SUGAR CANE 20' FROM PAVEMENT
Right of Way Fence: Type – Right and Left: (WIRE ON WOOD, 20' FROM PAVEMENT (L) & (R))
Control of Access: 1–None, 2–Partial, 3–Full: NONE; WIRE MESH ROCKFALL PROTECTION
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): 19H–01–82M, 1982; (19HJ–02–95M (BRIDGE REPAIRS) 1996); STATE
Project No., Type of Construction, and Year Constructed: STP–019–2(33); STP–019–1(30) RESURFACE; STP–019–2(33); 19H–01–99M RESURFACE; STP–019–2(37) RESURFACE
Project No., Type of Construction, and Year Constructed: 1998 RESURF; 1997 (R); 1995; 1997 (R); 2000; 1997



Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #3

ROAD | AHOLE BR. | POHAKUPUKA BR. | PAVED RD. | MAULUA BR. | KAPEHU BR. KAALAU ST. KAPEHU BR. | KEAALAU BR. | MAMALAHOA HWY. MOANALULU BR. | PAPA'ALOA AVE. KAWILIKI'AHI BR. | KIHALANI ST. KIHALANI BR. | OLD MAMALAHOA HWY (TO LAPAHOEHOE SCHOOL) | KUWAIKAHI BR. | MANOVAIOPAE BR. | OLD MAMALAHOA HWY (L) | PUALEA PL. ELEV. 500'/152m (L),1409ft(R)/410 "SCENIC PT." ENTR. TO SCENIC PT. MMSTD. RD. | ROAD TO POWER SUB-STATION | KILAU BR. | JADINE RD. PAVED ROAD | RONALD MCNEHE PT. PAVED ROAD | OLD MAMALAHOA HWY | STEVENS RD. | IGNACIO PL. | ROAD | MOONLIGHT RD. | OOKALA ACCESS RD. (Alternating 1WayL) PAVED ROAD | TRACTOR CROSSING | ELEV. 500'/152m (L),1409ft(R)/410 | OOKALA GRAVEYARD OOKALA RD.(R) OOKALA RD.(L)

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

HAWAII BELT ROAD

20.172 MI. | 20.359 MI. | 20.670 MI. | 20.759 MI. | 20.849 MI. | 21.520 MI. | 21.759 MI. | 22.755 MI. | 22.788 MI. | 22.884 MI. | 22.931 MI. | 23.099 MI. | 23.660 MI. | 23.758 MI. | 23.758 MI. | 23.963 MI. | 24.040 MI. | 24.207 MI. | 24.305 MI. | 24.485 MI. | 24.755 MI. | 24.772 MI. | 24.937 MI. | 25.101 MI. | 25.202 MI. | 25.255 MI. | 25.261 MI. | 25.636 MI. | 25.761 MI. | 25.783 MI. | 26.744 MI. | 26.755 MI. | 26.833 MI. | 26.868 MI. | 27.214 MI. | 27.551 MI. | 27.736 MI. | 27.751 MI. | 28.594 MI. | 28.754 MI. | 28.855 MI. | 29.142 MI. | 29.214 MI. | 29.382 MI. | 29.760 MI. | 29.773 MI.

CONTINUED ON SHEET #5

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

6' AC | 2'–10' GRS/GRV | (1'–5' GRV.) | 4'–8' AC | 7'–30' GRS. | 5' AC | 5'–7' AC | 6'–8' GRASS | 4'–8' AC | 24' AC | (6' GRS.) | 2'–4' AC | 4' AC | 4'–7' AC | 4' AC | 3' AC | 4' AC | 4'–6' AC | 4' AC | 5'–10' AC | 4' AC
(6'–12' AC)
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 | 4'–6' AC | 4' AC | (4'–6' AC) | 4' AC | 4' AC | 6' AC | 4' AC | 6' AC | 4' AC | 6' AC | (4' AC)
(8' AC) | (4'–8' GRS.) | (2'–6' AC) | (6' GRS.)

Number of Traffic Lanes
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 2–12'; 1–12' TRUCK CLIMB LANE; 1–12' TRUCK CLIMB LANE
(Right Side): 1–12' TRUCK CLIMB LANE; 1–12' TRUCK CLIMB LANE
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): (2'–6' CONC. GUTTER); 8' CONC. S.W. (1'–6' CONC. GUTTER); (5' CONC. GUTTER); (CONC. CURB & GUTTER)
Curb and/or Gutter: Type (Right and Left)
Protective Devices: Type, Location and Number ALL METAL ON METAL (UNLESS NOTED OTHERWISE)
Illumination: Type, Location and Number: Masonry Wall
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2); MOUNTAINOUS (3); ROLLING (2); MOUNTAINOUS (3); ROLLING (2); MOUNTAINOUS (3); ROLLING (2)
Speed: 1–Design, 2–Posted: 55 MPH (2); 55 MPH (2) – MINIMUM 40 MPH; 45 MPH (2); 55 MPH (2) – MINIMUM 40 MPH
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0019, 01329
HPMS Sections AADT 2016: 6,600
HPMS Sections AADT 2015: 7,000
HPMS Sections AADT 2014: 7,900
DOD Sections
Census Tracts
Functional Classification: PRINCIPAL ARTERIAL (3)
National Highway System (NHS): ON NHS (1)
Previous Projects: Project No., Date and Limits

(19H–02–87M, (R), 1987); 19GHJ–01–76M,(R), 1976; 19H–01–86M, (R), 1986; 19H–01–82M, 1982; 19H–01–89M (R), 1990; STP–019–2(37), RESURFACE, 1997; (19G–01–72, (R), UNIT 1, 1972); 19H–01–70, 1971; SDR–3(16), 1951; 19H–02–82M, (R), 1982; 19H–01–91M, (R), 1991; 19GHJ–01–78M, (R), 1978; (TRUCK CLIMB LANE); 19G–01–85, 1986; (19H–01–70, 1971); (SDR–3(15), 1950); (SDR–3(8), 1948); SDR–3(22), 1948; SDR–3(5), 1955; 19H–02–82M, (R), 1982; F–019–3(3), 1956; SDR–3(17), 1953; SDR–3(18), 1955; F–019–2(2), 1957; (SDR–01P–2(1), 1955); TRUCK CLIMB LANE

SCALE: (In Miles) 2" = 1 mile

Date Released	
Feb 2006	D.B.
Revised	
6/06	D.B.
12/09	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
1/13	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

ROAD INVENTORY
HAWAII RTE 19
HAWAII BELT ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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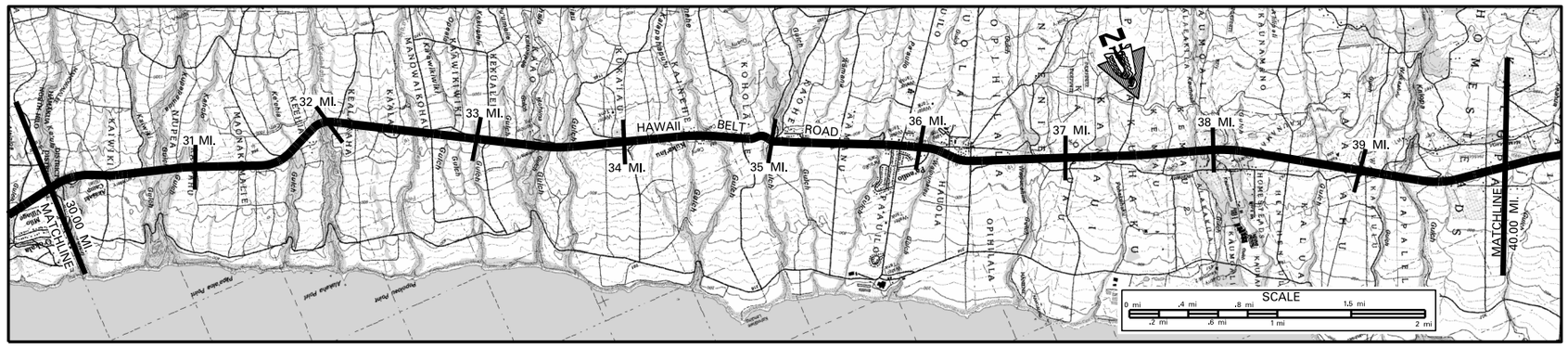


SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description — (UPGRADE HEADWALLS & DECK, 2007) 19G (12.57 MILES)

Structure Carrying Road

Bridges (Over 20'): Length, Type, Capacity and Year Constructed — CONC. BOX GIRDER 1959, HS-20; CONC. MASONRY ARCH 1935, H=15 (WIDENED IN 2005 HL-93); TEE BEAM 1935, H=15; POST TENSIONED CONC. BOX GIRDER 2009, HS-20-44; TEE BEAM 1935, H=15; STEEL MULTISTRINGER 1951, H=20; PRESTRESSED CONC. GIRDER, 1995, HS-20 + 44 (BOTH BRIDGES); TEE BEAM, 1938, H=15; PRESTRESSED CONC. GIRDER 1982, HS-20-44; PRESTRESSED T - BEAM 1981, HS-20-44; CONC. BOX GIRDER 1959, HS-20; TEE BEAM 1959, HS-20; CONC. BOX GIRDER 1959, HS-20

Vertical Clearance

Horizontal Clearance

Structure Over Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.-max.) If varies — 100' - 140'; 70' - 95'; 100' - 200'; 70' - 100'; 100' - 150'; 100' - 270'

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

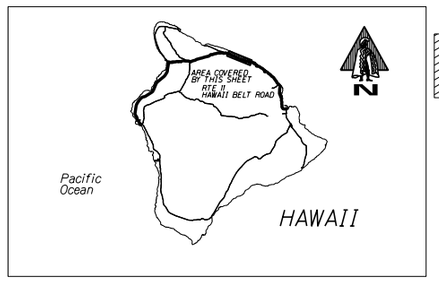
Right of Way Fence: Type - Right and Left — WIRE ON WOOD 20' FROM PAVEMENT LEFT AND RIGHT

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

Jurisdiction, Transfer Phase No. and Date (C to S or S to C) — (BR-019-2(38), BRIDGE WIDENING, 2005); (BR-019-2, BR, RPLCMT., 2009); STATE; (BRF-019-2(14), 1981); (NH-019-1(37), GRD RAIL & SHLDR IMP., 2009)

Project No., Type of Construction, and Year Constructed — NH-019-1(39), Guardrail and Shoulder Imprv., 2013

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

CONTINUE FROM SHEET #4

Kaula Bridge; Orokala Plant O.P.; Old Mamalahoa Hwy; Old Mamalahoa Hwy; Kuapaaulua Bridge; Kanolo Bridge; Kaalula Pl; Niupea Hmstds Rd; Niupea Hmstds Rd; Keaiakaha Bridge; Beg; End; Kaula Bridge; Kekuaiele Bridge; Culvert; Kukaiau Bridge; Culvert; Mohuna Bridge; Mauna Kea Ranch Rd; Paved Road; Kalaphapuu Bridge; Kalhehe Bridge; Old Mamalahoa Hwy; Antone De Luz Rd; Kawaili Bridge; Kaohe Pl; Aamemo Bridge; Paved Road; Power Sub-Station; East Pauulio Bridge; Pauulio Hui Rd; Pauulio Pedestrian Overpass; Pauulio Ped. Overpass; Pauulio Makai Rd. (R); Hauola Road; Hale Hookipa Pl.; Hale Hookipa Pl.; Pohakea Road; Plantation Road; Mamalahoa Hwy(R); Hauula Rd(L); Waipunahina Bridge; Kalopa Rd; Kaumoaili Bridge; Kalopa Rd; Kalopa Road; Paved Road; Kalopa Bridge; Kalopa Road; Kahawai Rd. (R); Paauahiu Road; Kalopa Lower Rd

HAWAII BELT ROAD

CONTINUE ON SHEET #6

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type — 4' AC; 5' - 7' AC; 4' AC; 10' PCC; 4' AC; 8' AC; 6'-8' AC; 4' AC; 6' AC; 4' AC; 4' AC; 10'-12' AC; 4' AC; 6' - 18' AC; 4' AC

Pavement: Width and Type — 24' AC (6'-10' BP); 10' AC

Shoulder: Width and Type — 4' AC; 3' 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 — ALL METAL ON METAL (UNLESS NOTED OTHERWISE)

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: — RURAL (99999)

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year) — B71 0019; 01329

HPMS Sections - AADT 2016 — 6,600

HPMS Sections - AADT 2015 — 7,000

HPMS Sections - AADT 2014 — 7,900; (5,400)

DOD Sections

Census Tracts

Functional Classification — PRINCIPAL ARTERIAL (3)

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

Previous Projects: Project No., Date and Limits — STP-0100(31) GUARDRAIL IMPROVEMENTS 1994; (19G-01-90M (R), 1990); 19G-01-88M (R), 1988; 19G-01-86M 1986 (R); 19G-02-88M (R) 1988; (19G-01-72, 1972); (19GH-01-85M, 1985 (R)); (19GHJ-01-78M PMS-0100(11) 1978); 19GHJ-01-78M, PMS-0100(11) 1978); (BRF-019-2(20), BR, REPLACEMENT); (BRF-019-2(18), 1982); (BRF-019-2(14) 1981); 19GHJ-01-78M, PMS-0100(11) 1978); 19GHJ-01-76M (R), 1976; 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.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
1/13	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

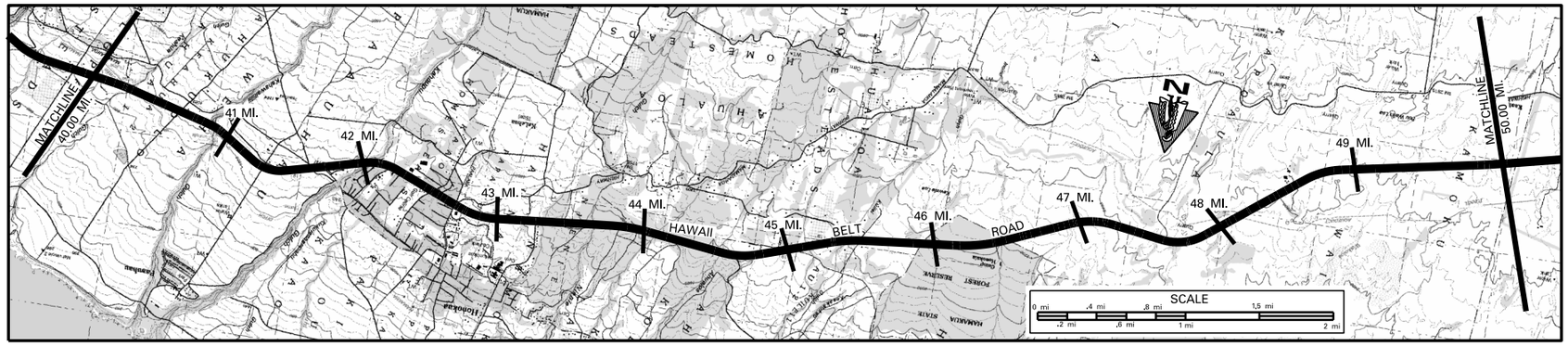
ROAD INVENTORY
HAWAII RTE 19
HAWAII BELT ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



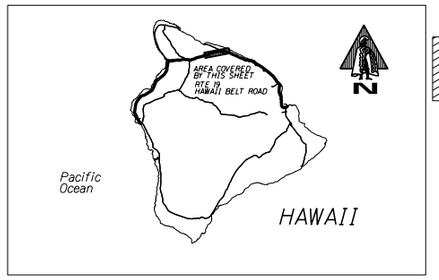
SCALE: (In Miles) 2" = 1 mile

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

Structure Carrying Road
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: CONC. BOX GIRDER 1959 HS-20 217' | TWIN BOX CULVERT 1953 HS-20 27' | CONC. BOX GIRDER 1963 HS-20 166'
- Vertical Clearance
- Horizontal Clearance: 28' | 36' | 28'

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

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



Indicates Grass & / or Physical Barrier on Median.

Road Diagram
* MP = Milepost Signage

CONTINUE FROM SHEET #5

Culvert 40.317 mi. | Paved Road ELEV. 1000'/305m (L&R) 40.616 mi. | Paved Road 40.638 mi. | Road 41 MP 66 KM 40.717 mi. | Tractor Crossing 40.777 mi. | Kahawaiiiii Bridge 40.862 mi. | Tractor Crossing 40.991 mi. | Pahihuna Rd. (R) Kalopa Rd. (L) 41.324 mi. | Begin Divided Hwy 41.581 mi. | Honokaa-Waipio Rd. Rte 240 to Honokaa 42.19 41.712 mi. 41.744 mi. | End Divided Hwy 41.953 mi. | Kahaupu Bridge 42.023 mi. | Opuhe Street 42.206 mi. | Loke Street 42.5 MP 42.232 mi. 42.238 mi. | Pikake Street 42.524 mi. | Tractor Crossing 42.634 mi. | Pakalana Street (R) Mauna Loa Street (L) 42.688 mi. | 43 MP 42.861 mi. | Begin Divided Hwy 43.156 mi. | Plumeria St 43.264 mi. | End Divided Hwy 43.452 mi. | Tractor Crossing 43.494 mi. | Nikole Bridge 44 MP 43.657 mi. | Tractor Crossing 43.709 mi. | 43.747 mi. | 45 MP 44.679 mi. | Paved Road 45.020 mi. | Kapuna Road ELEV. 2400'/610m (L&R) 46 MP 74 KM 45.408 mi. | 45.501 mi. | 45.702 mi. | Alpha Council Scout Camp (Camp Honokaia Cir) 46.429 mi. | HAWAII BELT ROAD 47 MP 46.733 mi. | ELEV. 2500'/762m (L&R) 48 MP 47.697 mi. | 45.653 mi. | 49 MP 48.686 mi. | 50 MP 49.693 mi.

CONTINUE ON SHEET #7

SCALE: (In Miles) 2" = 1 mile

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

Divided Highway – Divided
- Shoulder: Width and Type: 0
- Pavement: Width and Type: 14' AC | 12' AC
- Shoulder: Width and Type: 6'–8' AC | 6' AC

Number of Traffic Lanes: 2–12' | 2–14' | 2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 1–13' ACEL | 1–13' (L) T.L. | 1–12' (L) T.L.
(Right Side)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left)
Protective Devices: Type, Location and Number: ALL METAL ON METAL (UNLESS NOTED OTHERWISE)
Illumination: Type, Location and Number
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): A | B | A
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): C | D | B | C | B | C | D | C | B | C | D | C | D | C | D | C | B | C | D | B | C | B
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)
Speed: 1–Design, 2–Posted: 55 MPH (MIN. 40 MPH) (2) / 55 MPH (2) | 45 MPH (2) | 55 MPH (MIN. 40 MPH) (2) | 45 MPH (2) | 55 MPH (MIN. 40 MPH) (2) / 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0019 01329 | B71 0019 04173 | B71 0019 04326
HPMS Sections – AADT 2016: 6,600 | 6,600 | 8,000
HPMS Sections – AADT 2015: 7,000 | 6,200 | 7,300
HPMS Sections – AADT 2014: 5,400 | 6,000 | 8,200
DOD Sections
Census Tracts
Functional Classification: PRINCIPLE ARTERIAL (3)
National Highway System (NHS): ON NHS (1)
Previous Projects: Project No., Date and Limits:
19G-01-99M (RESURF) 2000 | STP-019-1(17) RESURF. 1996 | STP-019-1(25) SHOULDER IMPROVEMENT 1998
STP-0100(31), GUARDRAIL IMPROVEMENT 1994 | 19EF-01-89M (RESURF) 1990
19G-02-88M RESURF. 1982 | 19FG-01-81M RESURF. 1982
19G-01-74 1974 | 19F-01-78M 1978 | F-019-1(5) 1986 Inter. Impr.
F-019-2(6) 1958 | F-019-1(1), UNIT 2 1961 | SDR 3(7) 1952 & 1953 | F-019-1(1), UNIT 2 1961

SCALE: (In Miles) 2" = 1 mile

Date Released
Feb 2006, D.B.

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

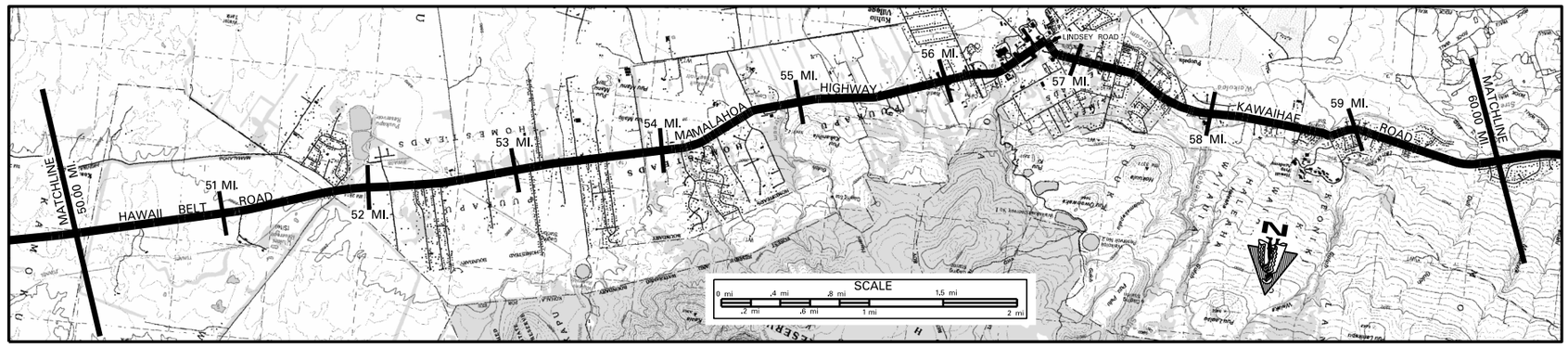
ROAD INVENTORY
HAWAII RTE 19
KAWAIHAE RD., MAMALAHOA HWY, HAWAII BELT ROAD, LINDSEY RD.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



SCALE: (In Miles) 2" = 1 mile

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

Structure Carrying Road

Bridges (Over 20'): Length, Type, Capacity and Year Constructed: SLAB 1968 HS-20 36'; SLAB 1932 H-15 36'

Vertical Clearance

Horizontal Clearance: 44'; 24'

Structure Over Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.-max.) If varies: 80' VARIES TO 185'; 60'

Available Right of Way Width (Needs Study): CLEAR 1000' GRASS AND SMALL TREES; RESIDENTIAL AREA; CLEAR 1000'

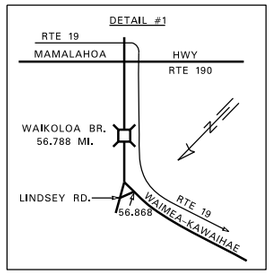
Right of Way Fence: Type – Right and Left: WIRE ON WOOD 20' FROM EDGE OF PAVEMENT LEFT AND RIGHT

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

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE; COUNTY; STATE (829 + 50) (778 + 50) (504 + 71.30)

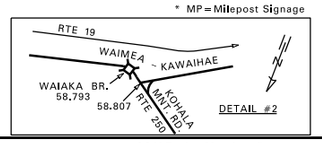
Project No., Type of Construction, and Year Constructed: 19F-01-97M (RESURF) 1999; STP-019-1(24) RESURF IMPR; STP-2100(42) COUNTY RESURF IMPR 2000; RS-0250(05) COUNTY (RESURF) 1986; 19D-01-06M, RESURF, 2008; NH-019-1(34), (R), IMPV., 2007

Project No., Type of Construction, and Year Constructed: STP-010-1(25) 1998 SHLDR IMPR; 19EF-01-89M (RESURF) 1990; WDR 2(1) 1947; (SEE ALSO RTE 190) 2000; 19D-01-91M (RESURF) 1992; 19D-01-96M RESURF 1998

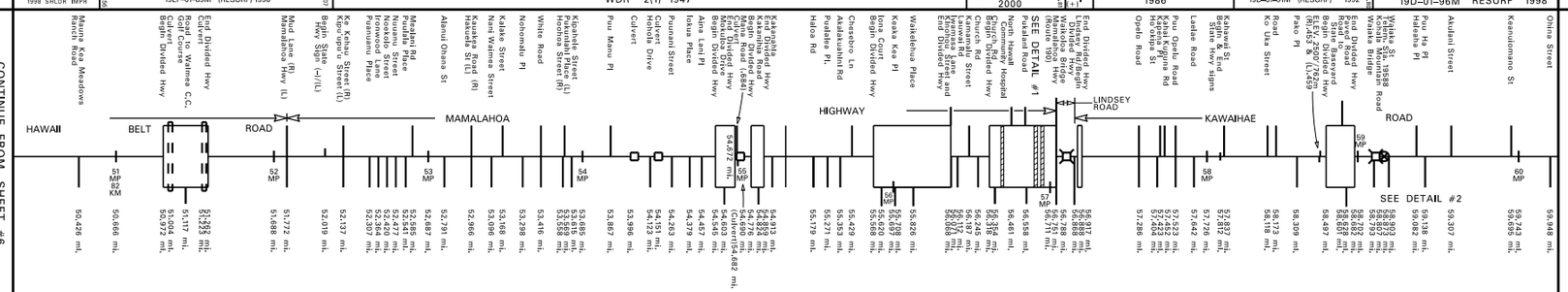


Indicates Grass & / or Physical Barrier on Median.

Road Diagram
* MP = Milepost Signage



CONTINUE FROM SHEET #6



CONTINUE ON SHEET #8

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided

Shoulder: Width and Type: 6' AC; 12' – 24' GRASS; 10'-20' GRASS; 8' AC; 10' AC; 10'AC 6' AC; 4'-6' AC; 5' AC; 4' AC; 10' AC

Pavement: Width and Type: 24' AC; 12' AC; 24' AC; 22' AC; 20' AC; 10' AC; 20' AC; 10' AC; 40' AC; 24' AC; 22' AC; 11' AC; 22' AC; 20' AC

Shoulder: Width and Type: 6' AC; 0; 6' AC; 7' – 15' GRASS; 4' – 10' GRASS; 4'-6' DIRT; 0; 0; 12'–24' GRASS; 0; 4' AC; 10'AC 6' AC; 4' AC; 4'–6' AC; 0; 4'–6' AC; 5' AC; 4' AC; 10' AC

Median: Width and Type: 0'– 10' PAINTED AC; 12' – 24' GRASS; 4'-10' DIRT; 0'-4' DIRT; 0'-4' PAINT; 0'-12' DIRT; 4' PAINT; 2'-6' RAISED GRASS; 0'-6' PAINTED AC; 12' PAINTED AC; 0'-11' AC

Median Barriers:

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

Pavement: Width and Type: 12' AC; 10' AC; 10' AC; 10' AC; 11' AC

Shoulder: Width and Type: 6' AC; 4' AC; 0; 4'-6' AC

Number of Traffic Lanes: 2 – 12'; 2–11'; 2 – 10'; 4–10'; 2–10'; 2–12'; 2–11'; 2–10'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 14' ACCEL LN.; 14' T.L.

(Right Side): 10' TL

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

Sidewalk: Width and Type (Right and Left): CONCRETE SIDEWALKS

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

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

Illumination: Type, Location and Number: 17 MV IN 2.85 MILES

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62): A; BAB; A; C; AB; AB; A A A C A CBA FAD; A; DA BA; A; DE A; A

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

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

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

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

Intersection Control Devices: Type, Location and Cycle Timing: 2 PHASE

Traffic Stations (Current Year): B71 0019 04326; B71 0019 05177; B71 0019 05618; B71 0019 05674; B71 0019 05764; B71 0019 05880; B71 0019 05930

HPMS Sections – AADT 2016: 8,000; 15,100; 18,500; 15,700; 13,600; 10,200; 8,200

HPMS Sections – AADT 2015: 7,300; 14,700; 13,000; 15,900; 12,700; 10,000; 7,200

HPMS Sections – AADT 2014: 8,200; 14,200; 18,500; 16,400; 13,100; 9,100

DOD Sections

Census Tracts

Functional Classification: PRINCIPAL ARTERIAL (3)

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

Previous Projects: Project No., Date and Limits:
- 19EF-01-89M RESURF 1990
- 19F-02-78 SHLDR STABILIZATION
- 19F-01-78M RESURF 1978
- F-019-1(1), UNIT 2 1961
- WDR 2(1) 1947
- HES-0100(26) CURVE IMPRV, COUNTY 1986
- RS-0250(05) COUNTY RESURFACE 1986
- WDR 2(1) 1947
- WDRC 12(1) 1947
- 19D-01-91M (R) 1992
- 19D-01-82M 1982
- 19D-01-72 (R) 1972
- FAP E-11A 1933
- NRH 11C 1933
- HES-0100(28) PHASE 2 SAFETY IMPRV 1997
- (19D-01-90M (R) 1991)

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

SCALE: (In Miles) 2" = 1 mile

Date Released
Feb 2006, D.B.

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

ROAD INVENTORY

HAWAII RTE 19

QUEEN KAAHUMANU HWY, KAWAIHAE RD.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

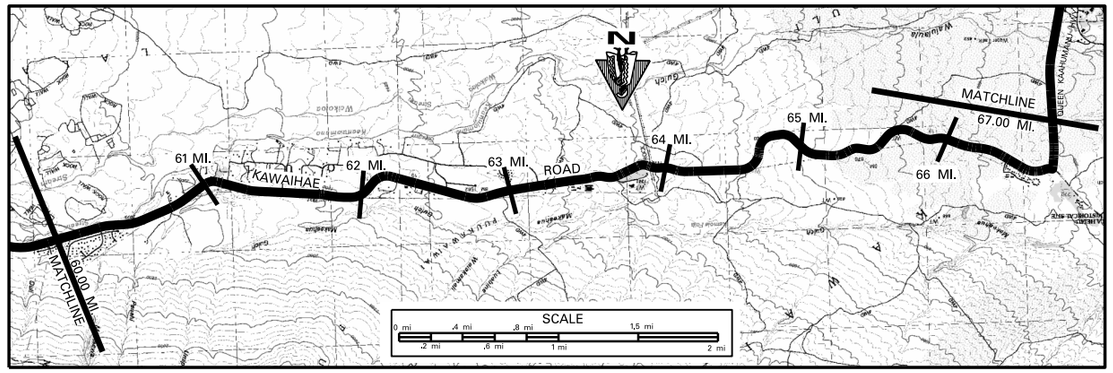
Total Route Length: 99.526 miles

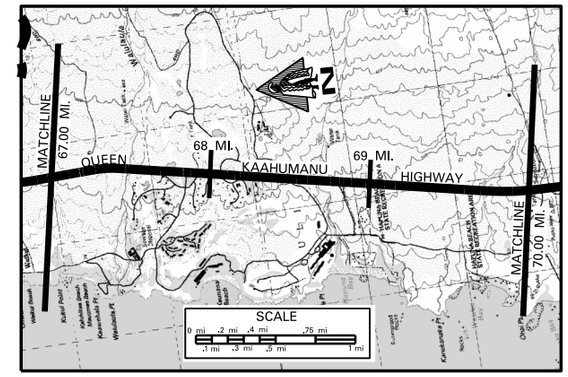
a. Survey Length: 99.526 miles

b. Proposed Length: 0.00 miles

c. Other Length: * 0.00 miles

*





SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

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

Structure Carrying Road

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

Structure Over Road

- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: 60' | 80' – 145' | 340' – 420'

Available Right of Way Width (Needs Study): 1000' CLEAR – GRASS, BUSHES AND SMALL TREES | (CLEAR 1000' – GRASS, BUSHES, & LAVA ROCK 8'–10' FROM EDGE OF PAVEMENT)

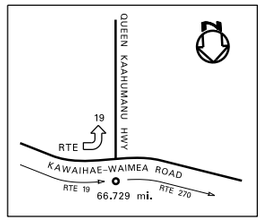
Right of Way Fence: Type – Right and Left: WIRE ON WOOD 20' FROM EDGE OF PAVEMENT | WIRE ON WOOD 20' FROM EDGE OF PAVEMENT

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

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

Project No., Type of Construction, and Year Constructed: NH–019–1(34), RESURFACE, IMPV., 2007 | NH–019–1(129), GUARDRAIL & SHLDR. IMPR., 2006 | NH–019–1(128), GUARDRAIL & SHOULDER IMPRV., 2006 | NH–019–1(133), RESURF., 2005

Project No., Type of Construction, and Year Constructed: 19D–01–96M RESURFACE 1998 | 19CD–01–97M RESURFACE 1999 | 19D–01–90M RESURF 1991 | 19C–01–78 1978 SHLDR. STAB. | 19C–01–78 1978 SHLDR. STAB. | NH–019–1(131) GUARDRAIL & SHLDR IMPR 2004



DETAIL

Road Diagram

* MP = Milepost Signage

CONTINUE FROM SHEET #7

Mahua Street (61 MP, 60.284 mi.) — Electric Power Sub-Station (60.703 mi.) — ELEV. 2000'/610m (R) & (L) (60.927 mi.) — Ouli Street (61.502 mi.) — Kanehoa Street (61.702 mi.) — Kahinu Place (62.291 mi.) — Anekona Street (62.596 mi.) — ELEV. 1650'/457m (R) & (L) (62.749 mi.) — Waiula Drive (62.979 mi.) — Waiemi Pl (63.194 mi.) — Tractor Crossing (63.680 mi.) — ELEV. 1000'/305m (R) & (L) (64.460 mi.) — Entrance to Water Supply Tank (65.708 mi.) — ELEV. 500'/152m (L),923' & (R),924 (66.433 mi.) — Emmalani Street (66.729 mi.) — SEE DETAIL Kawaihae Road (Rte 270) and End Div Hwy (66.704 mi.) — Begin Divided Hwy (66.844 mi.) — Culvert (66.999 mi.) — Mauna Kea Beach Begin Divided Hwy (67.875 mi.) — Kauna 'Oa Dr., Hotel and Golf Xing (67.782 mi.) — End Divided Hwy (68.089 mi.) — Kea Kea Land Bridge (68.207 mi.) — Begin Divided Hwy (68.501 mi.) — Hapuna Bay Drive (68.713 mi.) — End Divided Hwy (68.861 mi.) — Begin Divided Hwy (69.114 mi.) — (69.704 mi.) — (69.953 mi.)

KAWAIHAE ROAD — QUEEN KAAHUMANU HIGHWAY

CONTINUE ON SHEET #9

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: 2 – 10' | 2 – 11' | 2 – 12' | 2 – 11' | 2 – 12' | 2 – 11' | 2 – 12'

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

(Right Side)

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

Sidewalk: Width and Type (Right and Left)

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

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

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

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

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0019 05930 | B71 0019 06671

HPMS Sections – AADT 2016: 8,200 | 11,900

HPMS Sections – AADT 2015: 7,200 | 11,000

HPMS Sections – AADT 2014: 9,100 | 7,500

DOD Sections

Census Tracts

Functional Classification: PRINCIPLE ARTERIAL (3)

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

Previous Projects: Project No., Date and Limits:

(19D–01–90M (R) 1991) — (19D–01–90M RESURF 1991) — (HES–0100(28) PHASE 2 SAFETY IMPROV 1987) — 19CD–01–97M RESURFACE 1999 — NH–019–1(128), GUARDRAIL & SHOULDER IMPRV., 2006 — (19C–01–94M 1994 SHLDR IMPROV) — (NH–019–1(131) GUARDRAIL & SHLDR IMPR 2004)

(19D–01–90M (R) 1991) — 19D–01–90M (R) 1991 — 19D–01–90M (R) 1991 — (HES–0100(27), PH 1, 1986 SAFETY IMP.) — 19C–01–76M RESURF 1977

(19D–01–82M, 1982) — (HES–0100(28) PH 2 SAFETY, 1987) — (HES–0100(27), PH 1, 1986 SAFETY IMP.) — 19D–01–72 RESURFACE 1972 — 19BC–01–71, 1974 GRADING, 1975 PAVING

NRH–11C 1933 — FAP 11–8 1933 — G–3257–01–60 1962

SCALE: (In Miles) 2" = 1 mile

Date Released	
Feb 2006, D.B.	
Revised	
G.N.	4 / 06
D.B.	1/07
D.B.	2/08
D.B.	9/10
D.B.	2/11
D.B.	2/12
E.P.J.	9/12
E.P.J.	1/13
E.P.J.	12/13
D.B.	7/14
E.P.J.	1/16
E.P.J.	1/17
D.B.	2/18

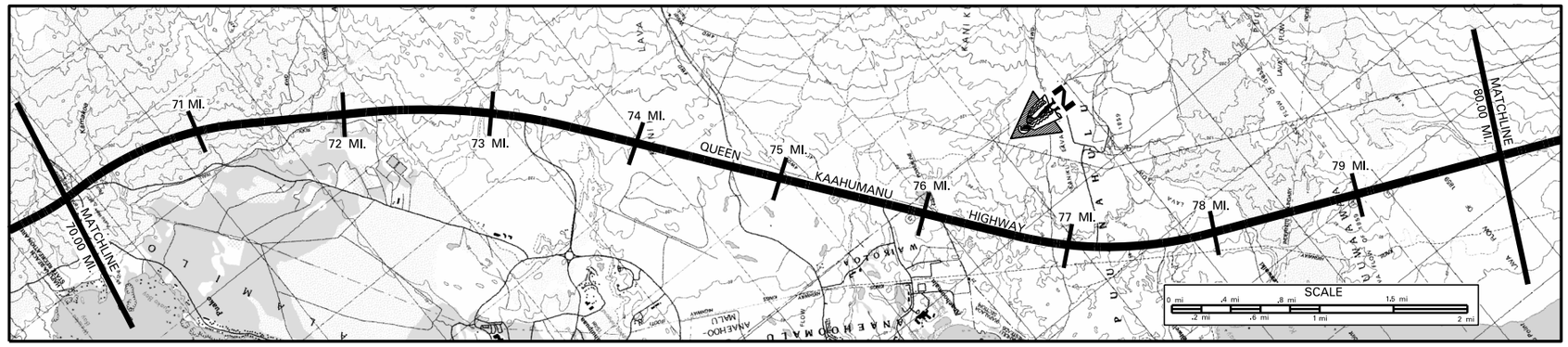
ROAD INVENTORY
HAWAII RTE 19
QUEEN KAAHUMANU HWY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



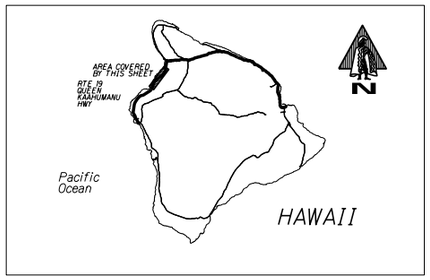
SCALE: (In Miles) 2" = 1 mile

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

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

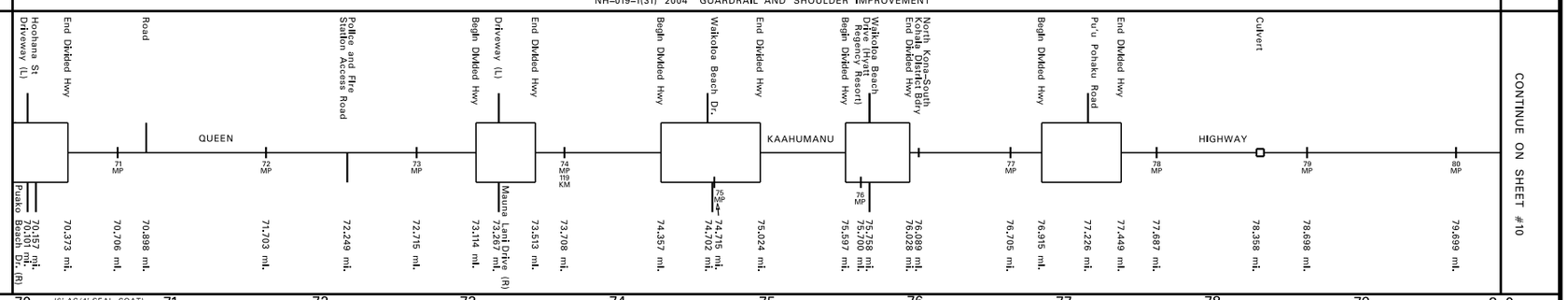
Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies	340' – 420' (76.05) 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) (80.00)
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), 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.

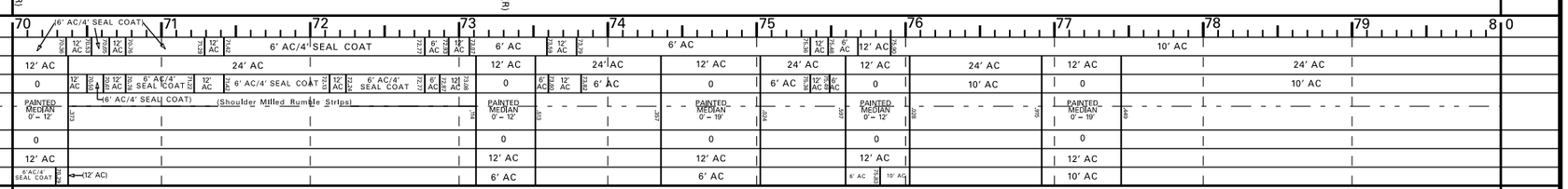
Road Diagram
* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway

Undivided
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type
- 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	ALL METAL ON METAL (UNLESS NOTED OTHERWISE)
Illumination: Type, Location and Number	N O N E
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)	A
Superelevation (Range)	
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)	B A C A C A B A B A B A B A B A B
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	SMALL URBAN (99998)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	ROLLING (2)
Speed: 1–Design, 2–Posted	55 MPH (2) 45 MPH (2) 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	3 PHASE 3 PHASE
Traffic Stations (Current Year)	B71 0019 06671 B71 0019 07467
HPMS Sections – AADT 2016	11,900 13,700
HPMS Sections – AADT 2015	11,000 13,700
HPMS Sections – AADT 2014	7,500 10,300 13,900
DOD Sections	
Census Tracts	
Functional Classification	PRINCIPAL ARTERIAL (3)
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
	(200 + 31.87) (426 + 72.99) (1188 + 50) (519 + 72.02) (1142 + 00)

SCALE: (In Miles) 2" = 1 mile

Date Released
Feb 2006, D.B.

Revised	
G.N.	MAY 2008
D.B.	1/07
D.B.	3/08
D.B.	9/10
D.B.	2/11
D.B.	2/12
E.P.J.	9/12
E.P.J.	1/13
E.P.J.	12/13
D.B.	7/14
E.P.J.	1/16
E.P.J.	1/17
D.B.	2/18

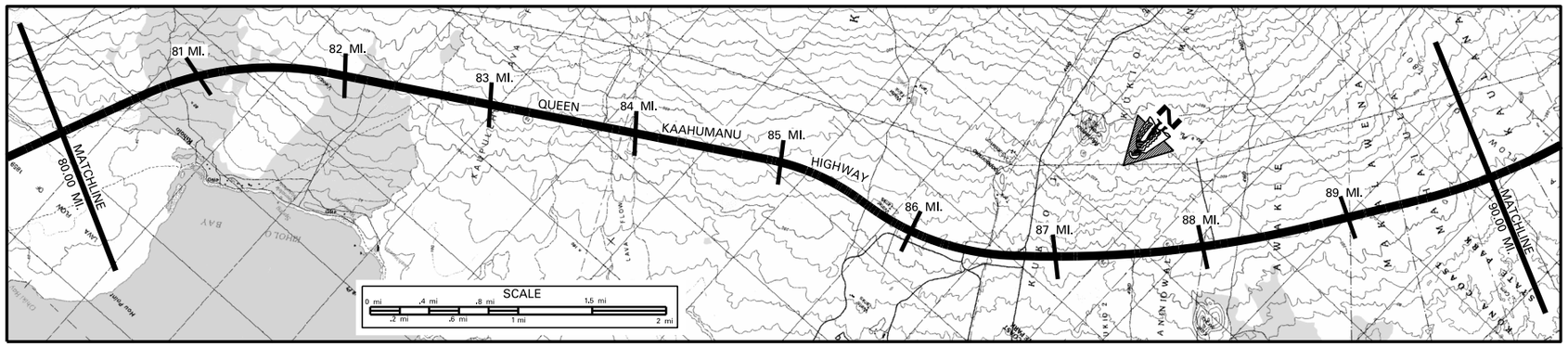
ROAD INVENTORY
HAWAII RTE 19
QUEEN KAAHUMANU HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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

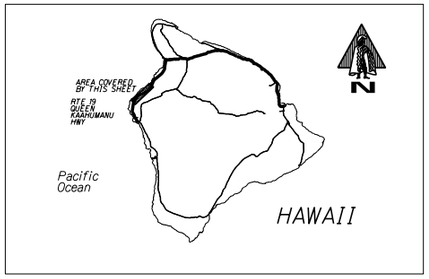


SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 19C (15.04 MILES); END 19B = BEG 19C AT KIHOLO LOOKOUT; 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 Carrying Road — Vertical Clearance
Structure Carrying 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

CONTINUE FROM SHEET #9

Begin Divided Hwy — 81 MP — 80.695 mi.
Begin Divided Hwy — 82 MP (132 KM) — 81.316 mi.
E.C.B. (19S082) Access to Lookout — 81.653 mi.
End Divided Hwy — 83 MP — 82.306 mi.
Telem. Stat. SBR (Begin Measured Mile) — 84 MP — 83.514 mi.
Culvert — 83.999 mi.
(End Measured Mile) — 85 MP — 84.514 mi.
Begin Divided Hwy — 86 MP — 85.694 mi.
Ka'ūpūlehu Drive — 87 MP (140 KM) — 86.198 mi.
Kuiaio Nui Dr. — 86.415 mi.
End Divided Hwy — 86.691 mi.
Paved Road — 86.822 mi.
Begin Divided Hwy — 88 MP — 87.131 mi.
Kua Bay Access Rd. (R) Kua Bay Access Rd. (L) Ke Ala Kona Veterans Cemetery — 87.557 mi.
End Divided Hwy — 89 MP — 87.762 mi.
Begin Divided Hwy — 90 MP — 88.111 mi.
End Divided Hwy — 88.398 mi.
Begin Divided Hwy — 88.669 mi.
89.744 mi.
89.965 mi.

QUEEN KAAHUMANU HIGHWAY

CONTINUE ON SHEET #11

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided
- Shoulder: Width and Type: 6' AC; 10' AC; 10' AC; 8'–14' AC; 10' AC; 6' AC/8' GRAV; 10' AC; (6' AC)
- Pavement: Width and Type: 12' AC; 24' AC; 12' AC; 12' AC 24' AC 12' AC; 24' AC; 12' AC; 24' AC; (12' AC)
- Shoulder: Width and Type: 10' AC; 15' AC 10' AC 15' AC; 0; 10' AC; 15' AC; 10' AC; 0; 10' AC 12' AC 10' AC; 0; 10' AC; 0
- Median: Width and Type
- Median Barriers: 0'–18' PAINTED AC; 0'–15' PAINTED AC; 0'–30' PAINTED AC; 0'–30' PAINTED AC; (0'–12' PAINTED AC)
- Shoulder: Width and Type: 0; 0; 0; 0; 0
- Pavement: Width and Type: 12' AC; 8'–10' AC; 12' AC 24' AC 12' AC; 12' AC; (12' AC)
- Shoulder: Width and Type: 12' AC; 8' AC 10' AC; 12' AC 8'–10' AC; (8'–10' AC)

Number of Traffic Lanes	2 – 12' ; 2 – 12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) — All Turning Lanes = 12'	
(Right Side) — All Turning Lanes = 12'	
Frontage Road: No. of Lanes, and Width (Right and Left)	
Sidewalk: Width and Type (Right and Left)	
Curb and/or Gutter: Type (Right and Left)	
Protective Devices: Type, Location and Number — ALL METAL ON METAL (UNLESS NOTED OTHERWISE)	
Illumination: Type, Location and Number	
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)	A
Superelevation (Range)	
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)	B C A B A B A B B A B C B A B B B C B
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	SMALL URBAN (99998)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	ROLLING (2)
Speed: 1–Design, 2–Posted	55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	
Traffic Stations (Current Year)	B71 0019 07467
HPMS Sections – AADT 2016	13,700
HPMS Sections – AADT 2015	13,700
HPMS Sections – AADT 2014	13,900
DOD Sections	
Census Tracts	
Functional Classification	PRINCIPAL ARTERIAL (3)
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 2008
D.B.	1/07
D.B.	3/08
D.B.	9/10
D.B.	2/11
D.B.	2/12
E.P.J.	9/12
E.P.J.	1/13
E.P.J.	12/13
D.B.	7/14
E.P.J.	1/16
E.P.J.	1/17
D.B.	2/18

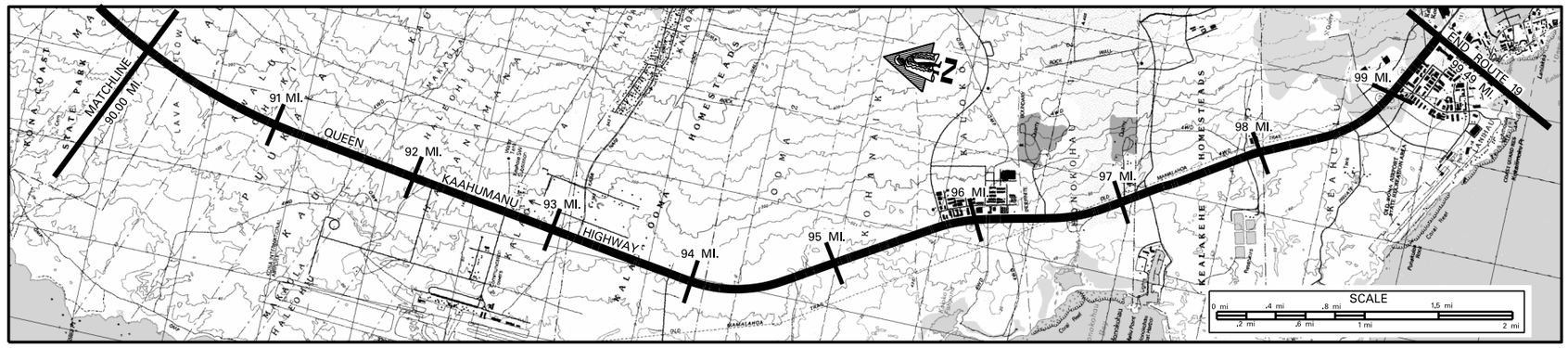
ROAD INVENTORY
HAWAII RTE 19
QUEEN KAAHUMANU HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



SCALE: (In Miles) 2" = 1 mile

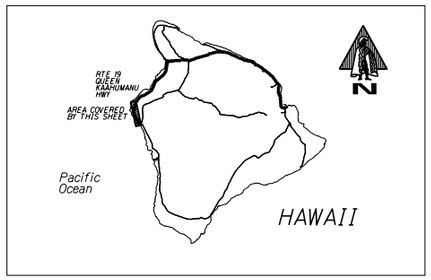
Maintenance Control Sections : Length and Description

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

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

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

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

CONTINUE FROM SHEET #10

Kona Coast State Park Road | End Divided Hwy | QUEEN KAAHUMANU HWY | Begin Divided Hwy | Keahole Airport Rd (R) Road to Power Sub-Station (L) | Kaiminani Drive (to Kaloa) | End Divided Hwy | Telem. Stat. T&M Begin Divided Hwy | Makako Bay Dr. (R) Road to Power Sub-Station (L) | End Divided Hwy | Kohanaiki Way Begin Divided Hwy | Huliko'a Dr. | End Divided Hwy | Begin Divided Hwy | Hiro Lani Stands (Kaloko Ind. Park) | End Divided Hwy Ala Nui Kaloko | Begin Divided Hwy | Alfred Quarry Rd | Kaloko-Honokohau Road | Honokohau St | Keakakehe Parkway (Route 197) | Paved Road (R) Fare Akeao Pl. (L) | Makala Blvd. | Kalwi Street | Eho Street

91 MP | 92 MP | 93 MP | 98 MP | 98 MP | 98 MP (.677) | 99 MP | 100 MP

90.103 mi. | 90.281 mi. | 90.682 mi. | 91.681 mi. | 92.471 mi. | 92.700 mi. 92.677 mi. | 93.212 mi. | 93.387 mi. | 93.669 mi. 93.647 mi. | 93.883 mi. | 94.196 mi. | 94.869 mi. 94.772 mi. | 95.061 mi. | 95.277 mi. | 95.482 mi. | 95.818 mi. | 96.175 mi. 96.116 mi. | 96.299 mi. | 96.508 mi. | 96.653 mi. | 97.066 mi. | 97.231 mi. | 97.682 mi. | 97.936 mi. | 98.679 mi. | 98.869 mi. | 99.125 mi. | 99.351 mi. | 99.517 mi.

NOTE: ROUTE LENGTH ADJUSTED TO MATCH '17 PHOTOLOG & HPMS DATABASE
END ROUTE 19 ON QUEEN KAAHUMANU HWY AT THE SOUTH END OF PAVEMENT OF PALANI ROAD (ROUTE 190)
99.526 MILES

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided
- Shoulder: Width and Type: 10' AC | 12' AC | 6' AC | 12' AC | 6' AC | 12' AC | 6' AC | 10–12' AC | 6' AC | 7' AC | 10' AC | 0
- Pavement: Width and Type: 14' AC | 24' AC | 12' AC | 24' AC | 12' AC | 24' AC | 12' AC | 24' AC | 12' AC | 24' AC | 12' AC | 24' AC
- Shoulder: Width and Type: 0 | 10' AC | 0 | 6' AC | 0 | 6' AC | 0 | 6' AC | 0 | (6' AC) | 0 | 5' AC | 2' AC
- Median: Width and Type: 0'–12' PAINTED AC | 0 – 14' PAINTED AC | 0 – 15' PAINTED AC | 0 – 12' PAINTED AC | 0 – 12' PAINTED AC | 0 – 18' PAINTED AC | 4'–75' GRAVEL FLUSH | 12'–38' GRASS (RAISED)
- Median Barriers:

Divided Highway – Undivided
- Shoulder: Width and Type: 0 | 0 | 0 | 0 | 0 | 5' AC | 0 | 2' AC
- Pavement: Width and Type: 14' AC | 12' AC | (11' AC) | 12' AC | 12' AC | 12' AC | 12' AC | 24' AC
- Shoulder: Width and Type: 12' AC | 10' SEAL COAT | 6' AC | 6' AC | 6' AC | 6' AC | (6' AC) | 8'–10' AC | 6' AC | 10' AC | 2' AC | 0

Number of Traffic Lanes: 2 – 12' | 2 – 12' | 4–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) (Right Side): 12' AC | ALL TLs 12'
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): 6' AC BIKE LANE | 6' AC BIKE LANE | 6' AC BIKE LANE
Curb and/or Gutter: Type (Right and Left): 10' CONC. PATH
Protective Devices: Type, Location and Number (ALL METAL ON METAL (UNLESS NOTED OTHERWISE))
Illumination: Type, Location and Number: HPS
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62): A
Superelevation (Range): (B)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45): B A B A B A B A B A B C B A B A B C A
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: SMALL URBAN (99998)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)
Speed: 1–Design, 2–Posted: 55 MPH (2) | 45 MPH (2) | 35 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing: 3 PHASE | 3 PHASE | 3 PHASE | 3 PHASE | 3 PHASE | 4 PHASE
Traffic Stations (Current Year): B71 0019 07467 | B71 0019 09267 | B71 0019 09719
HPMS Sections – AADT 2016: 13,700 | 24,000 | 27,200
HPMS Sections – AADT 2015: 13,700 | 24,400 | 22,100
HPMS Sections – AADT 2014: 13,900 | 25,900 | 27,500
DOD Sections
Census Tracts
Functional Classification: PRINCIPLE ARTERIAL (3)
National Highway System (NHS): ON NHS (1)
Previous Projects: Project No., Date and Limits:
(STP-019-1(22) 1998) | (19A-01-97 INTER IMPR 2000) | (19A-01-97 1998 @ 97.32 MI.) 19A-01-97M RESURFACE 2000
STP-019-1(23) SHOULDER IMPROVEMENT 1997 | STP-019-1(18) RESURFACE 1997 | BD-69-352 PAVING 1969 | 19A-01-80M RESURFACE 1980
19BC-01-71 (PHASE III B GRADING 1974 & PAVING 1975 | BD-66-7-352 UNIT 3 GRADING & BD-69-352 PAVING 1969 | B-3267-02-63 1964

SCALE: (In Miles) 2" = 1 mile

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

ROAD INVENTORY

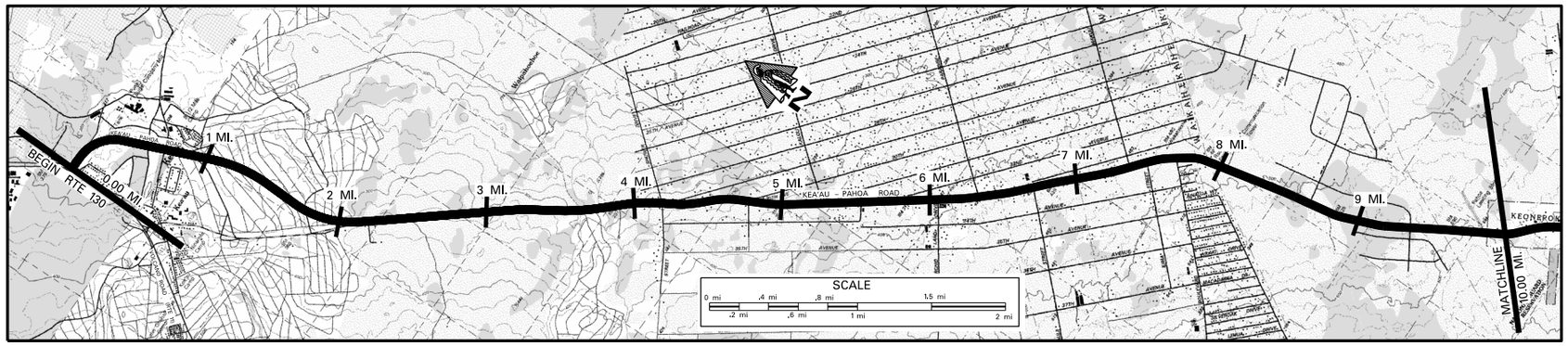
HAWAII RTE. 130
KEA'AU–PAHOA RD.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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

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

NEEDS STUDY ROUTE NO. _____ FUNCTIONAL CLASSIFICATION _____



SCALE: (In Miles) 2" = 1 mile

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)

Vertical Clearance

Horizontal Clearance — 40'

Structure Over Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.–max.) If varies — 150' – 220' (2.33); 80' – 130' (5.36); 50'; 80' (9.87)

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

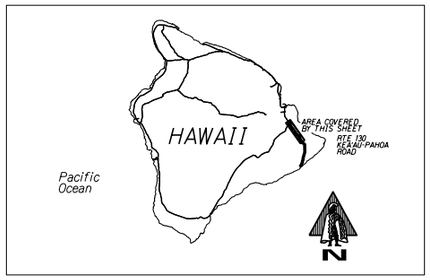
Right of Way Fence: Type – Right and Left — Residential Area

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

Jurisdiction, Transfer Phase No. and Date (C to S or S to C) — State; 107 + 49.46 (2.03); 153 + 78.74 (4.17); 114 + 00 (7.51); 134 + 00 (7.89); 134 + 11.34 (7.90); 165 + 00 (8.69)

Project No., Type of Construction, and Year Constructed — STP–0130–(28) Phase 1, Lanes, 2016; (S–0130(7) 1967); (HSIP–0130–(30), 2012, INTERERSECTION IMPROVEMENTS); (130B–01–07 ACCESS IMP., 2009)

Project No., Type of Construction, and Year Constructed — 130B – 01 – 98, New Constr., 1999 (1.38); 130B – 01 – 92, New Constr., 1999 (2.33); STP–0130(25), Resurf, 1996; (RS–0130(16), Widened & Resurf., 1990) (5.36); RS–0130(24), Widen & Resurf., 2003 (8.69)



Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP = Milepost Signage

BEGIN RTE 130 ON KEA'AU-PAHOA ROAD AT THE SOUTH EAST EDGE OF PAVT. OF VOLCANO ROAD (RTE 11). 0.000 mi.

Culvert Keaau Road 0.333 mi. 0.279 mi. | Milo Street 0.721 mi. | Culvert 0.888 mi. | Culvert 0.997 mi. | Culvert 1.092 mi. | Culvert 1.098 mi. | Culvert (Connector Rd.) 1.210 mi. | Culvert Kukula St. (High School) 1.380 mi. | Culvert 1.410 mi. | Culvert Kea'au – Pahoa Rd. (Rte 139) 1.787 mi. | Culvert 1.859 mi. | Culvert 1.955 mi. | Culvert 2.005 mi. | Culvert 2.207 mi. | Humane Society Paved Rd. (Opukahaia Rd. 2.207 mi.) | Waste-station Rd. 2.267 mi. | Talem Star, C2F End Divided 2.349 mi. | 1MP 2.484 mi. 2.515 mi. | 2.50 MP 3.179 mi. | 3 MP 3.678 mi. | Wailuaiki Bridge 3.782 mi. | Begin Divided Paved Road 3.997 mi. | Shower Dr. (L) 4.009 mi. | End Divided Pan Mo'i St. (R) 4.200 mi. | Pohaku Dr. (R) 4.346 mi. | 4MP 4.387 mi. | End Divided Pohaku Pl. 4.682 mi. | Begin Divided 4.687 mi. | Puakalo St. 4.880 mi. | End Divided 4.893 mi. | Pohaku Dr. 4.781 mi. | Begin Divided 5.087 mi. | End Divided Kaloli Dr. 5.276 mi. | Pohaku Circle 5.357 mi. | 5MP 5.550 mi. | Begin Divided 5.674 mi. | Orchid Land Dr. 5.934 mi. | End Divided Paradise Dr. 6.066 mi. | 6MP 6.340 mi. | Auili St. 6.477 mi. | Begin Divided 6.598 mi. | End Divided 6.712 mi. | 6.883 mi. | Begin Divided 7.201 mi. | End Divided Maku'u Dr. 7.378 mi. | Ahuloa Blvd. 7.493 mi. | Begin Divided 7.578 mi. | End Divided 7.672 mi. | 7MP 7.709 mi. | Begin Divided Rd. to Power Sta. 7.819 mi. | End Divided 7.887 mi. | Begin Divided Rd. to Comm. Sta. 8.103 mi. | End Divided 8.155 mi. | Driveway 8.246 mi. | End Divided 8.354 mi. | Begin Divided 8.484 mi. | 8MP 8.768 mi. | End Divided Ka Ohuwalu Dr. 8.817 mi. | 8.855 mi. | End Divided Kaluanhe St. (L) 9.251 mi. | Begin Divided Nikuahine Rd. (R) 9.366 mi. | 9.480 mi. | Paved Rd. Water Tank Rd. 9.694 mi. | 9MP 9.785 mi. | 9.810 mi.

KEA'AU – PAHOA ROAD

ROUTE CONTINUED ON SHEET #2

SCALE: (In Miles) 2" = 1 mile

Divided Highway

Undivided

Shoulder: Width and Type — 10' AC; 8' AC (Shoulder Milled Rumble Strip); 8' AC; 8' Grv; 8' AC; 8' Grv; 8' AC; 8' (4'AC,4' Grv); 10' AC; 4' Grass; 6' AC; 8' AC; 6' AC (8' AC)

Pavement: Width and Type — (12' AC); 24' AC; 36' AC; 12' AC; 24' AC; 14' AC; 24' AC; 12' AC; 24' AC; 12' AC (24' AC); 12' AC; 24' AC (24' AC); 12' AC; 24' AC; 12' AC; 12' AC; 24' AC; 12' AC; 24' AC

Shoulder: Width and Type — 4' AC; (10' Paint); (12' Paint); 2' AC; 0; 8' Grv; 0; 8' Grv; 0; 8' (4'AC,4' Grv); 0 (4'AC,4' Grv); 0; 0 (6' AC); 6' AC; 0; 0; 0; 6' AC; 6' AC (8' AC)

Median: Width and Type — 10' Painted AC; 10' Grass (Flush); (12' Grass); (12' Grass); Varies 0–22' Paint; Centerline Milled Rumble Strip; 0'–12' Paint on AC; 0'–12' Painted AC; 0'–12' Painted AC; 0'–12' Painted AC; 0'–12' Painted AC; 0'–18' Painted AC; 0'–18' Painted AC; 0'–18' Painted AC; 0'–18' Painted AC; 0'–18' Painted AC; 0'–18' Painted AC; 0'–18' Painted AC

Shoulder: Width and Type — 4' AC; 0; 0; 0; 0; 0; 0; 0; 0; 0; 0

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

Shoulder: Width and Type — 10' AC; 2' AC; 8'–12' AC; 8'–12' AC; 8'–10' AC; 6'–10' AC; 6' AC; 6' AC; 6' AC; 8' AC; 6' AC; 6' AC

Number of Traffic Lanes — (1–12') (2–12') 4 – 12'; (2–12') (1–12'); 2 – 12'; 2–14'; 2 – 12'; (SHLDR MILLED RUMBLE STRIP) (2 – 12')

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) — 12' T. Lns; SHOULDER LANE

(Right Side) — All Turning Lanes 12'; (All T.Ls. 12')

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

Sidewalk: Width and Type (Right and Left)

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

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

Illumination: Type, Location and Number — Low Pressure Sodium; Low Pressure Sodium

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: — Small Urban (99998)

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year) — B71 0130 00000; B71 0130 00179; B71 0130 00770

HPMS Sections – AADT 2016 — 23,400; 30,000; 13,200

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

HPMS Sections – AADT 2014 — 20,700; 24,400; 13,300; North bound Shoulder Ln., 6:00–8:00 am, exc, Sat, Sun, & Hol.

Rush Hour Shoulder Lane

DOD Sections

Census Tracts

Functional Classification — Minor Arterial (4)

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

Previous Projects: Project No., Date and Limits — (STP–0130 (25), Resurf, 1996); (S–0130(9) 1967); (S–231(1) 1953); (RS–0130(16), Widened & Resurf., 1990); 130B–01–72 ; (R) 1972; S–231(1) 1952; S–0130(7) 1967; (S–0130(9) 1966)

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.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	EPJ
7/14	D.B.
1/16	EPJ
1/17	EPJ
2/18	D.B.

ROAD INVENTORY

HAWAII RTE 130

KEA'AU–PAHOA RD., PAHOA–KALAPANA RD.

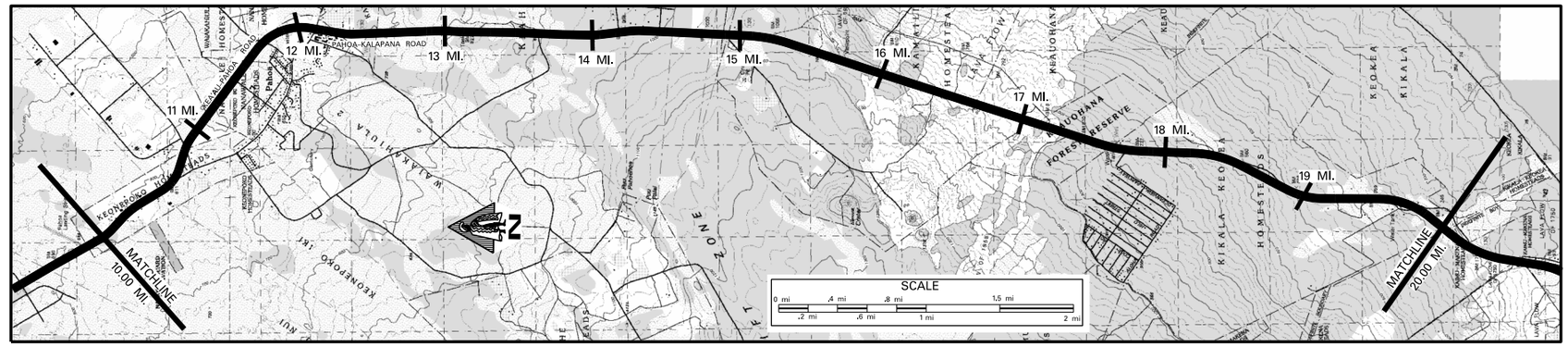
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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

NEEDS STUDY ROUTE NO. _____ FUNCTIONAL CLASSIFICATION _____

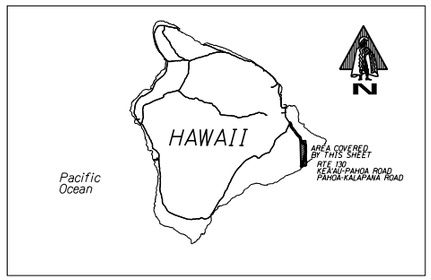


SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 130 B (12.12 Mi.); End 130–A, Beg. 130–B on Keeau–Pahoa Rd. @ the North E.P. of Pahoa–Kapoho Rd. (12.12); 130 A (13.19 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' (10.76); 50' – 110'; 100'–150' (17.38)
Available Right of Way Width (Needs Study): Residential Area; Trees (12.65); 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 (19.33, 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); 130A–01–97M Resurfacing 1998 (17.41)
Project No., Type of Construction, and Year Constructed: STP–0130(25), Resurf, 1996 (10.46); RS – 0130(20), New Alignment, 1990 (12.28); 130A–01–92M, Resurf, 1993 (17.40); S–0130(12) 1971



Road Diagram

* MP = Milepost Signage

ROUTE CONTINUED FROM SHEET #1

Key points (KEA'AU–PAHOA ROAD): Divided Hwy. Begin; Rd. to Police Station; End Divided Hwy.; Divided Hwy. Begin; End Divided Hwy.; Kahakai Blvd.; Road "A" (Rte 134); Spurs; Post Office Rd. (West); Homestead Rd. (East); Divided Hwy. Begin; Pahoa-Kapoho Rd. (L) (Rte. 132); Village Rd. (R) (Rte. 134); End Divided Hwy.; Board of Water Supply Tank; Leilani Ave; Malama St.; ALA ILI RD.; Paved Road; Road; Kamaili Road (to Opihikao); Upper Puna Rd; Onaeie Rd.; Old Kalapana Rd.; Old Kalapana Rd.; Old Kalapana Rd.; Old Kalapana Rd.; Old Kalapana Rd.; Old Kalapana Rd.; Old Kalapana Rd.

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

KEA'AU–PAHOA ROAD — PAHOA–KALAPANA ROAD

ROUTE CONTINUED ON SHEET #3

SCALE: (In Miles) 2" = 1 mile

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

Divided Highway — Median:
- Median: Width and Type: 0'–12' Painted AC; 0'–12' Painted AC; 0'–12' Painted AC
- Shoulder: Width and Type: 0; 0; 0
- Pavement: Width and Type: 12' AC; 12' AC; 12' AC
- Shoulder: Width and Type: 8' AC; 8' AC; 8' AC

Number of Traffic Lanes: 2 – 12'; 2 – 10'; 2 – 11'; 2 – 12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): All Turning Ln's = 12'
(Right Side): 11' T.L.; 11' M.L.
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left): 4' (Type 2) Gutter
Curb and/or Gutter: Type (Right and Left): 6' Gutter
Protective Devices: Type, Location and Number: All Metal Rails on Metal Posts unless noted otherwise.
Illumination: Type, Location and Number: 3 Low Pressure Sodium; 6 Low Pressure Sodium; 4 Low Pressure Sodium; Low Pressure Sodium
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62): A; B; A
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45): B; A; B; A; B; B; D; C; B; B; C; B; C; B; B; A; B; C; D; C; B; C; D; C; D; A; C
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: Small Urban (99998); Rural (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: Flat (1); Rolling (2)
Speed: 1–Design, 2–Posted: 55 MPH (2) 45 MPH (1) 45 MPH (1); 55 MPH (1) 45 MPH (1); 55 MPH (1) 45 MPH (1); 55 MPH (2) Minimum 40 (2) (Minimum 40 MPH (2))
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0130 00770; B71 0130 01066; B71 0130 01214; B71 0130 01420
HPMS Sections – AADT 2016: 13,200; 7,400; 4,500; 2,200
HPMS Sections – AADT 2015: 13,500; 8,500; 4,800; 2,200
HPMS Sections – AADT 2014: 13,300; 8,600; 4,500; 1,900
DOD Sections
Census Tracts
Functional Classification: Minor Arterial (4); Major Collector (5)
National Highway System (NHS): On NHS (1); Not on NHS (0)
Previous Projects: Project No., Date and Limits: S–0130(9), 1967; RS–0130(20) (New Alignment) 1990; HWY–H–01–69; (RS–0132(3) 1986 Widen and Resurf); RS–SR–0130(19) Resurf 1982; S–0130(9) 1966; County; A–130–01–61 Sect. A (R/W); ER–4(1) 1957, 59; S–130 (12) 1970

SCALE: (In Miles) 2" = 1 mile

Date Released	
November 2000	
Revised	
Sept 02	J.K.
Feb. 04	D.B.
May 04	D.B.
Sept 04	D.B.
7/06	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

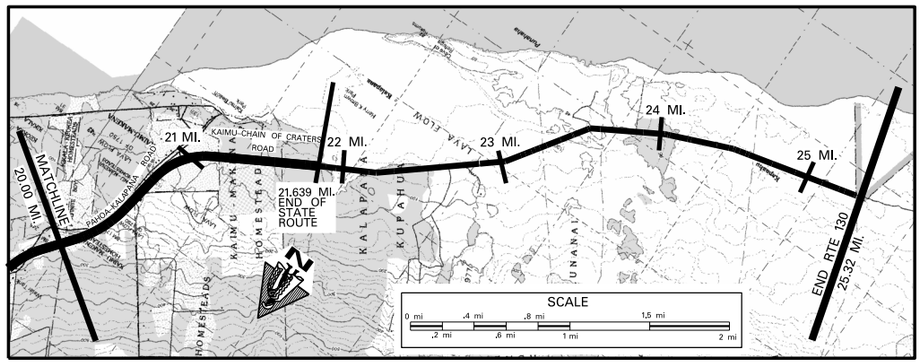
ROAD INVENTORY
HAWAII RTE 130
PAHOA–KALAPANA ROAD, KAIMU–CHAIN OF CRATERS ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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

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

NEEDS STUDY ROUTE NO. _____ FUNCTIONAL CLASSIFICATION _____

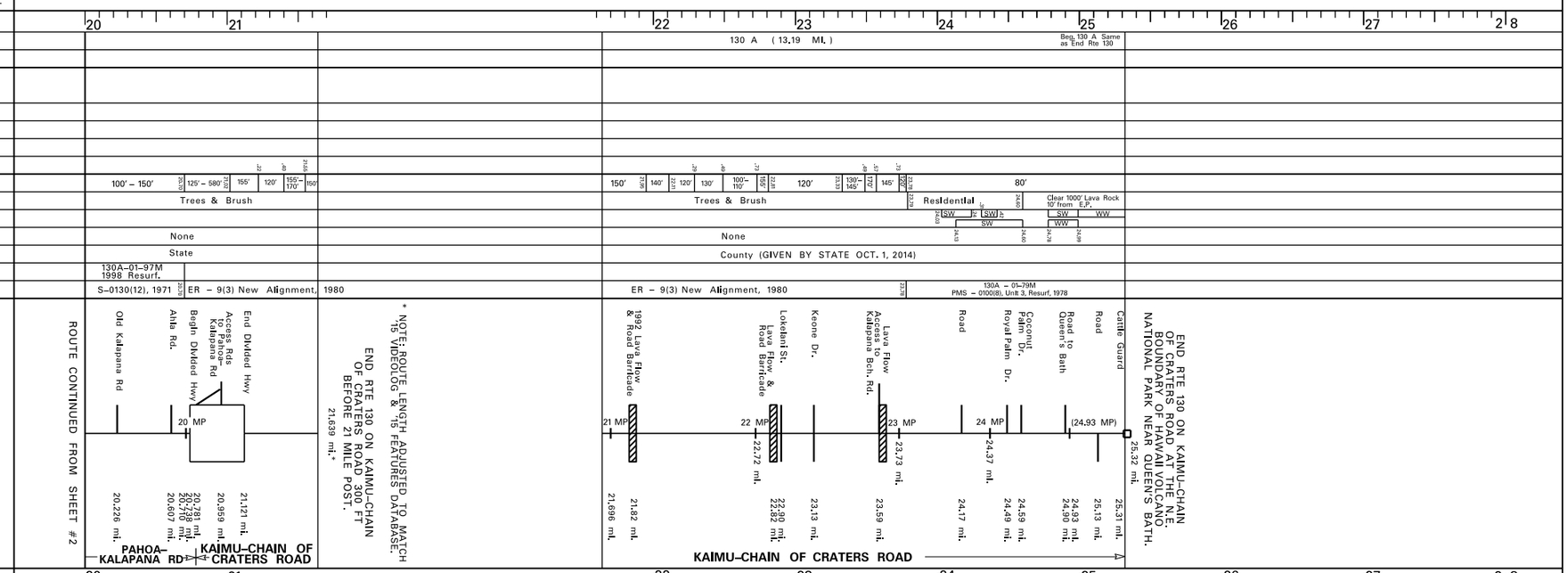


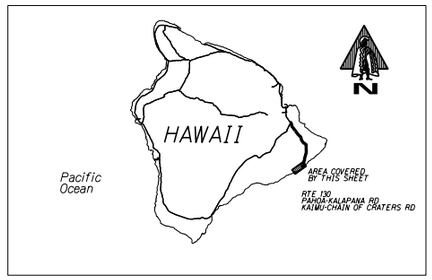
SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

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

Right of Way Width (min.–max.) If varies
Available Right of Way Width (Needs Study)
Right of Way Fence: Type – Right and Left
Control of Access: 1–None, 2–Partial, 3–Full
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)
Project No., Type of Construction, and Year Constructed
Project No., Type of Construction, and Year Constructed





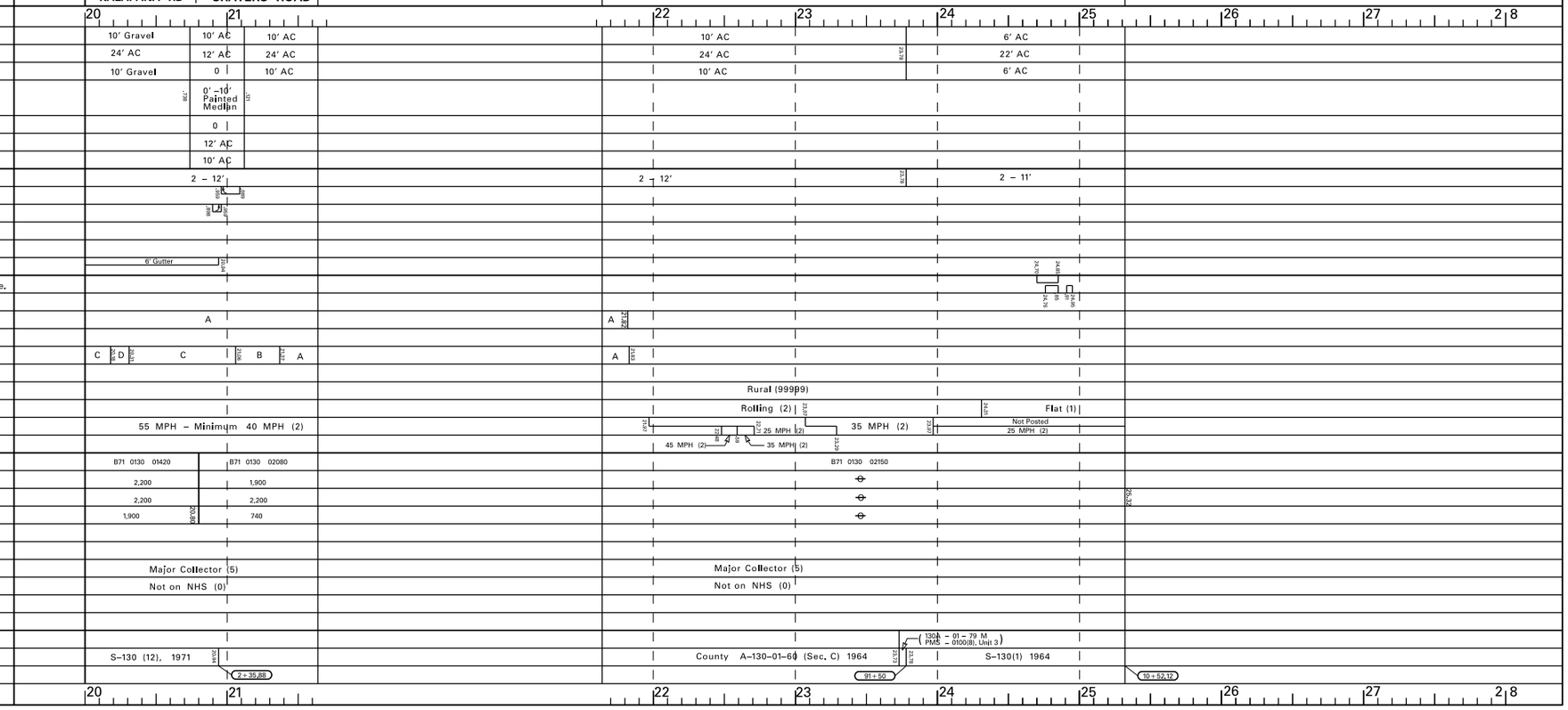
Road Diagram

* MP = Milepost Signage

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
Shoulder: Width and Type
Pavement: Width and Type
Shoulder: Width and Type

Number of Traffic Lanes
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left)
Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise.
Illumination: Type, Location and Number
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62)
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development:
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 2016
HPMS Sections – AADT 2015
HPMS Sections – AADT 2014
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	
November 2000	
Revised	
7/06	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

ROAD INVENTORY

HAWAII RTE 139
OLD KEA'AU – PAHOA ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

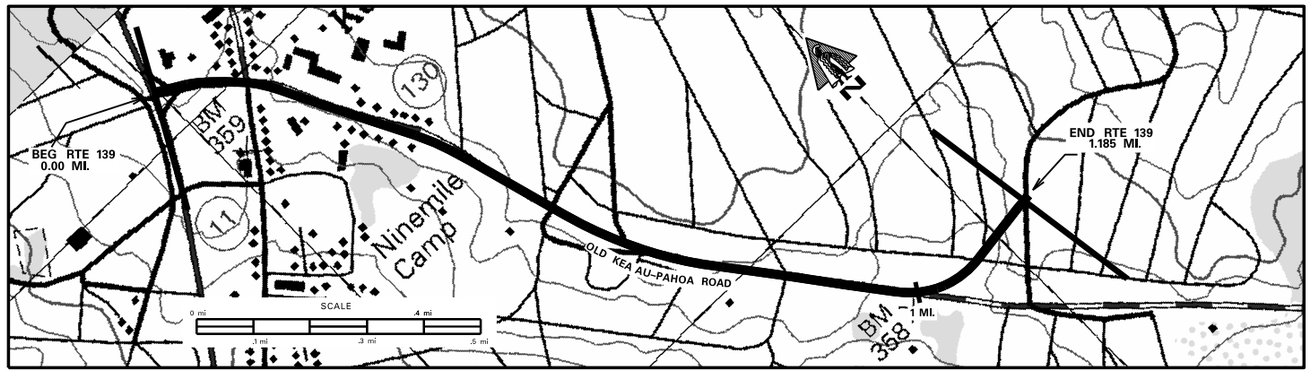
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 1.185 **MILES**

a. Survey Length: 1.185 **MILES**

b. Proposed Length: 0.00 **MILES**

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



SCALE: (In Miles) 10" = 1 mile

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 (0.00); Clear 1000' – Sugar Cane – 6' from Pav't (1.18)

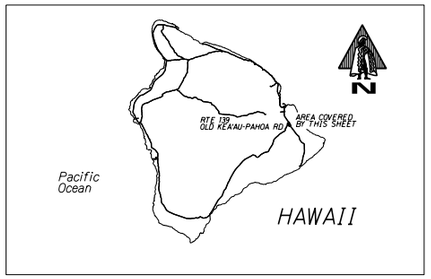
Right of Way Fence: Type – Right and Left — Pipe (0.10–0.17); Chain Link (0.67–0.89); Chain Link; Chain Link

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

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

Project No., Type of Construction, and Year Constructed — 139A–01–05M, Resurface, 2011

Project No., Type of Construction, and Year Constructed — (F–011–2(17), 1987); (RSG–0130(22), 1987); 130B–01–91, Imp., 1993; STP–0130(25), Resurf., 1996; 130B–01–92, 1999



Road Diagram

* MP = Milepost Signage

Indicates Grass & / or Physical Barrier on Median.

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

Spur (0.015 mi.); Driveway (0.057 mi.); Old Volcano Rd. (0.101 mi.); End Divided Hwy (0.174 mi.); Driveway (0.190 mi.); Kikania St. (0.400 mi.); Puna Sugar Rd. (0.515 mi.); Begin Divided Hwy (0.607 mi.); Kukuda St. (0.706 mi.); Paved Road to Elementry School (0.818 mi.); End Divided Hwy (0.909 mi.); Paved Road (0.957 mi.); Begin Divided Hwy, Nawahi St. (R) (Old Rte 130) (0.994 mi.); Ka'u'au High School (L) (1.050 mi.); 1 MP (1.038 mi.); (1.077 mi.); (1.104 mi.)

OLD KEA'AU–PAHOA ROAD

END ROUTE 139 ON OLD KEA'AU-PAHOA ROAD, THE N. EDGE OF PAV'T OF KEA'AU-PAHOA ROAD (RTE 131). 1.185 MI.*

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

END ROUTE DESCRIPTION

SCALE: (In Miles) 10" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type — 6' AC (0.14); 10' AC (0.70); 8' Gravel (0.95); 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) (0.069); 10' Painted Median (0.190); (0.607); 12' Painted Median (0.906); (1.050); 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' (.199); (.707); (1.104)

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) — 12' TL; (0.05); (.101); 11' TL; (.707); (.818); 12' TLs

(Right Side) — (0.069); (.141); 10' TLs; 12' TL (.560); (.858); (.957)

Frontage Road: No. of Lanes, and Width (Right and Left) — (0.07); (0.10); (0.14); (0.17); (0.38); (.706); (0.98); (.818)

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

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

Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise. (0.044); (0.06); (0.08); (0.17); (.348); (.391); (.418); (.460); (.563); (.632); (0.90); (.839); (.897); (1.00)

Illumination: Type, Location and Number

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) — E (0.02); B (0.16); A (0.97); D (1.10); A

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) — B (0.11); A (0.18); B (0.33); A (0.70); C (0.88); A (1.10); C

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: — Rural (99999)

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

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

Intersection Control Devices: Type, Location and Cycle Timing — (.101) 2 Phase; (.706) 2 Phase

Traffic Stations (Current Year) — B71 0139 00000

HPMS Sections – AADT 2016 — 7,600

HPMS Sections – AADT 2015 — 8,700

HPMS Sections – AADT 2014 — (0.00); (0.70); 6,200; (1.185)

DOD Sections

Census Tracts

Functional Classification — Major Collector (5)

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

Previous Projects: Project No., Date and Limits — (0.20); STP–0130(25), Resurf., 1996; (0.05); (RSG–0130(22), 1987); (0.18); 130B–01–83M, (R), 1983; S–0130(2), 1966; (0.33); S–130(7), 1967; (0.95)

SCALE: (In Miles) 10" = 1 mile

Date Released
June 1999

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

ROAD INVENTORY

HAWAII RTE 160
KE–ALA–O–KEAWE ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

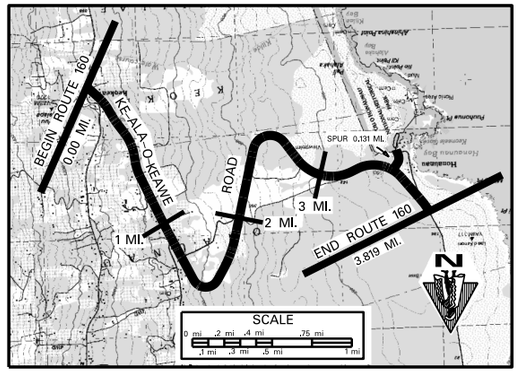
Total Route Length: 3.95 miles

a. Survey Length: 3.819 miles

b. Proposed Length: 0.00 miles

c. Other Length: * 0.131 miles

* SPUR LENGTH



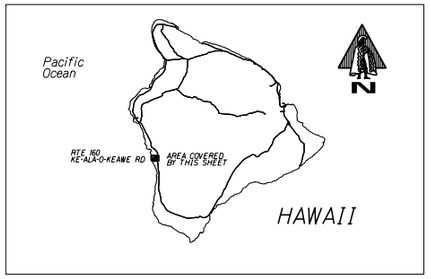
SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

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

160 03 (0.13 MI.)

Structure Carrying Road	Bridges (Over 20'): Length, Type, Capacity and Year Constructed
	Vertical Clearance
	Horizontal Clearance
Structure Over Road	Vertical Clearance
	Horizontal Clearance
Right of Way Width (min.–max.) If varies	VARIES 80' – 140'
Available Right of Way Width (Needs Study)	LARGE TREES & HEAVY GRASS, CUT SLOPES (1.48) CLEAR 1000' BRUSH W/ SMALL TREES 5'–15' FROM EDGE OF PAV'T
Right of Way Fence: Type – Right and Left	(1.23) FENCE (R) (1.70) FENCE (L) & (R) WIRE ON WOOD 25' FROM EDGE OF PAV'T (3.12) FENCE (L) (3.35)
Control of Access: 1–None, 2–Partial, 3–Full	NONE — (NONE)
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)	STATE — (STATE)
Project No., Type of Construction, and Year Constructed	
Project No., Type of Construction, and Year Constructed	160A–01–96M, RESURFACE, 1998 — (160A–01–96M, RESURFACE, 1998)



Road Diagram

* MP = Milepost Signage

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

POST OFFICE 0.037 MI. — PAINTED CHURCH RD. (1 MP) 1.077 MI. 1.001 MI. — CULVERT RODEO RD. (TO BOTANICAL GARDENS) 1.236 MI. — CULVERT 1.311 MI. — ROADIR RODEO RD.(L) (2 MP) 1.433 MI. 2.010 MI. 1.999 MI. — LOOKOUT RDS. 2.774 MI. 2.732 MI. — PAVED ROAD (3 MP) 2.997 MI. — BEGIN DIVIDED 3.150 MI. — 3.491 MI. 3.466 MI. — END DIVIDED 3.278 MI. — HONAUNAU VILLAGE ROUTE CITY OF REFUGE 3.480 MI. — 3.692 MI. 3.678 MI.

KE–ALA–O–KEAWE ROAD

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE. END RTE 160 ON KE–ALA–O–KEAWE RD. AT END OF STATE HWY SIGN. FROM ACCESS TO CITY OF REFUGE. 3.819 MI.*

PAVED RD. 0.113 MI. — BEG. CITY OF REFUGE SPUR ON ACCESS RD. TO CITY OF REFUGE AT THE SOUTHWEST EDGE OF PAVEMENT OF KE–ALA–O–KEAWE ROAD. 0.000 MI.

RTE 163

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

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

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)
	Median: Width and Type	0–20' PAINTED AC (.278) (.692)
	Median Barriers:	
	Shoulder: Width and Type	0
	Pavement: Width and Type	14' AC
	Shoulder: Width and Type	4' AC
Number of Traffic Lanes		2–12' 2–14' 2–12' — (2–12')
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)		12' TURNING LANES (.556 .460 .588 .541)
(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)		METAL ON METAL
Protective Devices: Type, Location and Number	All Metal Rails on Concrete Posts unless noted otherwise.	(.888) (.199) (.287) (.484) (.446) (.409) (.443) (.225) (.322) (.397) (.396) (.318) (.478) (.468) (.623) (.698) (.126) (.123) (.227) (.284) (.546) (.649) (.859) (.072) (.092) (.365) (.308) (.391) — (METAL ON METAL) (.360) (.358)
Illumination: Type, Location and Number		
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)		FA (1.39) D (1.60) A (2.43) D (2.70) A (2.81) B (3.07) AB (3.44) A — A D E
Superelevation (Range)		
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)		D (0.08) C (0.40) D (0.73) C (1.14) D (1.36) u (1.60) D (1.70) C (1.99) D (2.70) E (2.85) D (3.35) B (3.81) — (D) — B
Vertical Curve: Crest or Sag, Curve Limits		
Area and Development:		RURAL (99999) — (RURAL (99999))
Terrain: 1–Flat, 2–Rolling, 3–Mountainous		ROLLING (2) — (ROLLING (2))
Speed: 1–Design, 2–Posted		45 MPH (MIN. 30 MPH) (2) (3.81) MPH(2)
Intersection Control Devices: Type, Location and Cycle Timing		
Traffic Stations (Current Year)		B71 0160 00000 — B71 0160 00108 — (B71 0163 00000)
HPMS Sections – AADT 2016		1,400 — 960 — 920
HPMS Sections – AADT 2015		0.00 — 1,300 (1.08) — 900 — 830
HPMS Sections – AADT 2014		1,400 (2.78) 1,000 — 890
DOD Sections		
Census Tracts		
Functional Classification		MAJOR COLLECTOR (5) — (MAJOR COLLECTOR (5))
National Highway System (NHS)		NOT ON NHS (0) — (NOT ON NHS (0))
Previous Projects: Project No., Date and Limits		RS–0160(6) RESURFACE 1980 (2.80); S–0160(1), 1961 (1.01) (.73 – 1.01); S–0160(2) UNIT 1, 1961 (3.16); S–0160(2) UNIT 2, 1961 — (S–0160(2) UNIT 2, 1961)

SCALE: (In Miles) 2" = 1 mile

Date Released
OCT. 05, DB

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

ROAD INVENTORY
HAWAII RTE 190
MAMALAHOA HIGHWAY

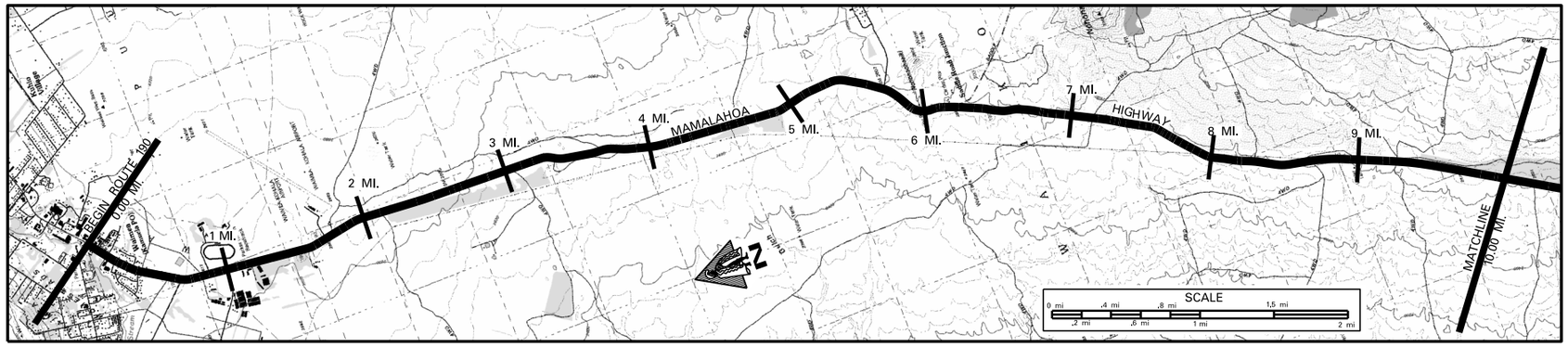
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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

*



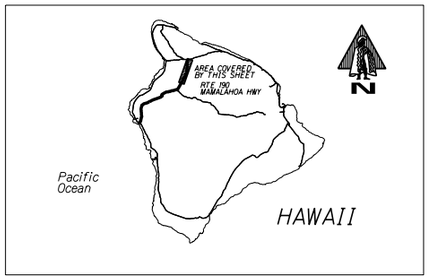
SCALE: (In Miles) 2" = 1 mile

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

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

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

- Right of Way Width (min.–max.) If varies: 70'; 8.42 100'–145'; 8.73 80'–90'; 9.76 100'–145'
- Available Right of Way Width (Needs Study): RESIDENTIAL, FARMS, RANCHES; 1.20 1000' CLEAR – PASTURES – 10'–15' FROM PAVEMENT; 8.63 CLEAR 1000'– PASTURELAND W/ LAVA ROCK AND SOME TREES
- Right of Way Fence: Type – Right and Left: 0.15 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
- Project No., Type of Construction, and Year Constructed: (STP-089-1(24), 2000 RESURF. IMPRV. ALSO SEE RTE 19); 0.00 WDRC 12(1), 1947; 1.00 190E–01–98M, RESURF., 1999; 4.20 190DE–01–99M, 2000 (RESURF.); 9.74



Road Diagram

* MP = Milepost Signage

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

0.053 MI. WAIMEA MID. SCHL. DRIVEWAY (BEG. DIV. .087; END DIV. .085) — PAVED RD.
0.293 MI. BEG. DIV. LOA'A LN & BEG. DIVIDED
0.321 MI. END DIV.
0.348 MI. AHULI CIRCLE
0.593 MI. KAMOKOLOKO RD.
0.675 MI. PUU OPELU RD
0.829 MI. ENT. TO PARKER RANCH
0.868 MI. PARKER RANCH HQ
0.994 MI. ROAD TO PARKER ALA 'OHIA BLVD
1.000 MI. ENT. TO FARM ROAD
1.114 MI. STATE TREE NURSERY TELEM. STA. 190010
1.200 MI. FORMERLY END OF SJ 190
1.555 MI. PAVED ROAD 1.555 MI.
1.702 MI. WAIMEA–KOHALA AIRPORT ROAD
2.019 MI.
3.000 MI.
4.007 MI.
4.523 MI. KAMAKOA BR. #1 ROAD CULVERT
4.576 MI.
4.649 MI.
4.996 MI.
5.681 MI. ROAD TO QUARRY WEST HAWAII CONCRETE
5.974 MI.
6.232 MI. SADDLE ROAD (RTE 200)
7.013 MI.
7.556 MI. KAMAKOA BR. #2
7.981 MI.
8.963 MI. ROAD
9.950 MI.

MAMALAHOA HWY

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

CONTINUED ON SHEET #2.
10.000 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided
- Shoulder: Width and Type: (0'–10' AC) (8'–3' AC) (33' AC); 25' GRASS; 22' AC (11' AC); 22' AC; 4' AC; 24' AC; 24' AC; 22' AC
- Pavement: Width and Type
- Shoulder: Width and Type: 15' GRASS; 15' GRASS; 4' AC
- Median: Width and Type: (10'–5' PAINTED AC) (10'–9' PAINTED AC); (10'–0' PAINTED AC)
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type: (11' AC)
- Shoulder: Width and Type: (5' AC)

- Number of Traffic Lanes: (2–11') (1–11'); 2–11'; 2–12'; 2–12'; 2–11'
- Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 11' T.L.; 10' T.L.; (2–10')
- (Right Side)
- Frontage Road: No. of Lanes, and Width (Right and Left)
- Sidewalk: Width and Type (Right and Left): 0.06 4' CONC. S.W.; 0.03 8' CONC. S.W.
- Curb and/or Gutter: Type (Right and Left): 0.06 CONC. CURBS (NO GUTTERS)
- Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise.
- Illumination: Type, Location and Number: MV
- Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)
- Superelevation (Range)
- Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)
- Vertical Curve: Crest or Sag, Curve Limits
- Area and Development: SMALL URBAN (99998); 2.02; RURAL (99999)
- Terrain: 1–Flat, 2–Rolling, 3–Mountainous: FLAT (1); .969; 1.44; ROLLING (2)
- Speed: 1–Design, 2–Posted: 35 MPH (2); .101; 50 MPH (2)
- Intersection Control Devices: Type, Location and Cycle Timing
- Traffic Stations (Current Year): B71 0190 00000; B71 0190 00171; B71 0190 00625
- HPMS Sections – AADT 2016: 6,500; 7,700; 5,900
- HPMS Sections – AADT 2015: 6,300; 6,000; 6,625; 5,300
- HPMS Sections – AADT 2014: 0.87; 6,500; 1.71; 5,700; 9.00; 4,700
- DOD Sections
- Census Tracts
- Functional Classification: MINOR ARTERIAL (4)
- National Highway System (NHS): NOT ON NHS (0)
- Previous Projects: Project No., Date and Limits: 4.53 RS–0190(8) 1988, (R); (RS–0190(5), 1980) 7.47; 7.66; 9.09; WDRC 12(1) 1947; 1.00 RS–0190(7), RESURF. & REALIGN., 1987; 4.53 WDRC 12(1) 1948; 5.45 19 DE–01–68; 6.26 COUNTY; 8.38 RS–0190(2), 1979; 9.15 F–10(6), 1953 (FY 05) (FY 06); 9.75 FAP 19–C(1), 1938

SCALE: (In Miles) 2" = 1 mile

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

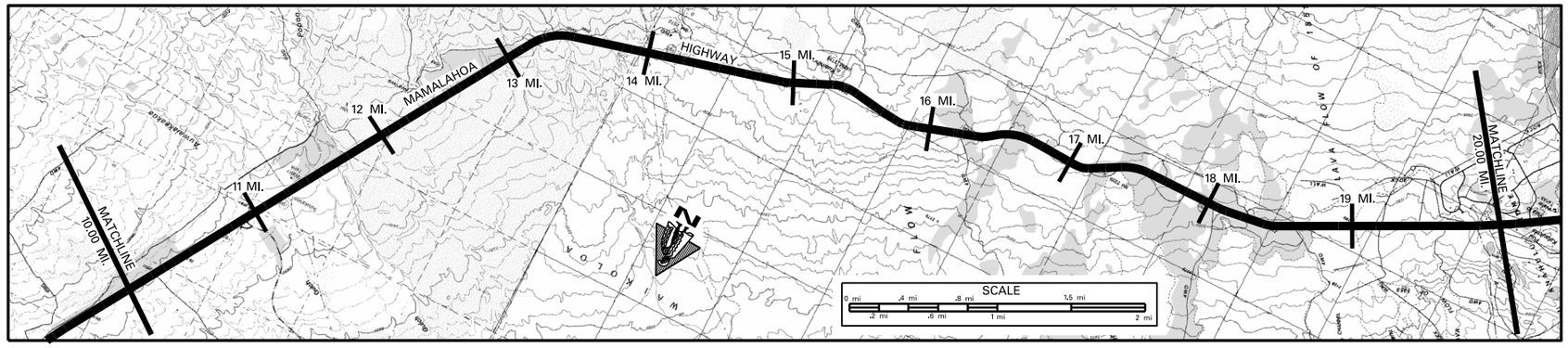
ROAD INVENTORY
HAWAII RTE 190
MAMALAHOA HIGHWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



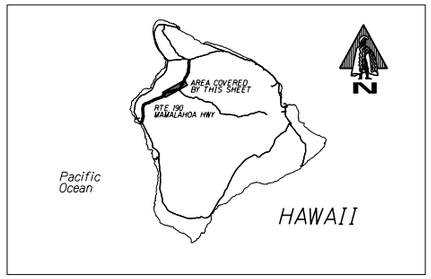
SCALE: (In Miles) 2" = 1 mile

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

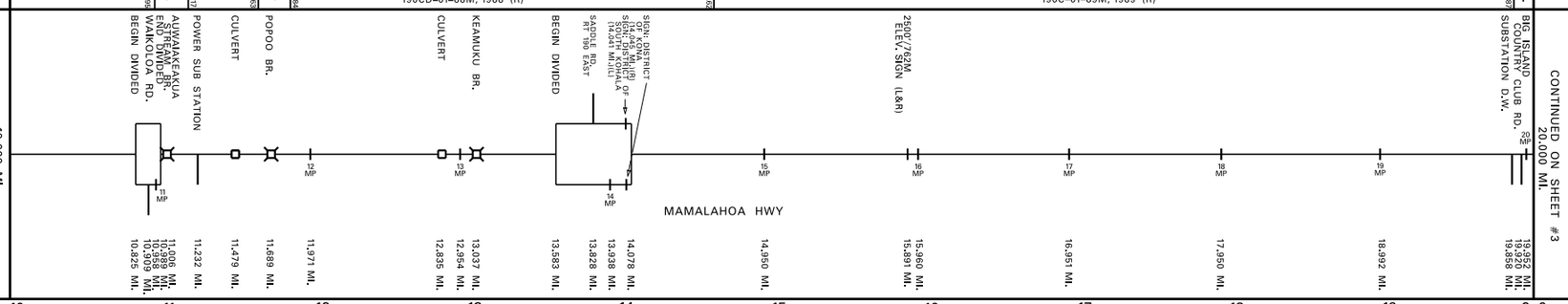
Structure Carrying Road
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: PRESTRESSED CONCRETE GIRDER, HL-93, 2001 — 133' (11.04), 119' (11.72); SLAB 1940, H-15 — 23' (13.06)
- Vertical Clearance
- Horizontal Clearance: 40', 40', 32'

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.-max.) If varies: 100' – 145' | (13.48) | 60' – 150'
Available Right of Way Width (Needs Study): CLEAR 1000' – PASTURELAND W/ LAVA ROCK AND SOME TREES | (18.96) | CLEAR 1000', LAVA ROCK, GRASS, TREES – 10' FROM PAVEMENT
Right of Way Fence: Type – Right and Left: WIRE ON WOOD 10' FROM PAVEMENT (12.94); WIRE ON WOOD 10' FROM PAVEMENT (12.94) | (20.04) WIRE ON WOOD 10' FROM PAVEMENT; (20.04) 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): STATE
Project No., Type of Construction, and Year Constructed: (BR-0190(13), 2001 BRIDGE REPLACEMENT) (10.85, 11.17) | (11.63, 11.94) | (12.64) ER-15(22) EMER. ROCKFALL REPAIRS, 2011 | (16.72, 16.82) | (16.42) 190BC-02-06M, PVMT. PREVENT. MAINT., 2009 | (19C-01-70, (RESURF. & REHAB.), 1971) (19.87)
Project No., Type of Construction, and Year Constructed: 190CD-01-88M, 1988 (R) (14.65) | 190C-01-89M, 1989 (R)



Road Diagram
* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway

Undivided
- Shoulder: Width and Type: 4' AC | 4'–5' AC | 4' DIRT
- Pavement: Width and Type: 22' AC (10.76) | 14' AC | 21' AC (13.48) | 18' AC (15.79) | 22' AC
- Shoulder: Width and Type: 4' AC | 0 | 4'–5' AC | 0 | 5' DIRT
- Median: Width and Type: (0–12' PAINTED MEDIAN) | 0–12' PAINTED MEDIAN
- Median Barriers:

Divided
- Shoulder: Width and Type: 0 | 0
- Pavement: Width and Type: 17' AC
- Shoulder: Width and Type: (2–10.5') 4'–5' AC

Number of Traffic Lanes: 2–11' (10.76) | 1–11' 1–17' | 2–10.5' (13.48) | .829 .795 .828 .945 .966 | 2–9' (15.79) | 2–11'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): .067 .818 .027 .909
(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): .110 .187 .267 .371 .653 .842 .023 .037 .050 .062 .125 .043 .062 .074 .238 .243 .267 .044 .163 .881 .863 .076 .138 .354 .374 .490 .055 .245 .084 .256 .574 .066
Protective Devices: Type, Location and Number (All Metal Rails on Metal Posts unless otherwise noted. MCB = Metal on top of Concrete Barrier.): .083 .282 .449 .647 .133 .243 .449 .113 .280
Illumination: Type, Location and Number: MCB MCB MCB MCB
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62): A | DAD 14.61 | A 15.26 | B 15.43 | A 15.77 | B 15.87 | A 16.32 | B 16.43 | A | B 17.15 | A
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45): C 10.08 | B 10.27 | C 10.36 | B 11.55 | A 11.65 | C 11.84 | B 12.17 | A 12.30 | C 12.48 | C 12.69 | B 13.05 | C 13.12 | B 13.21 | C 13.69 | B 14.10 | B 14.28 | C 14.49 | B 15.34 | A 15.63 | B 15.70 | C 15.77 | D 15.86 | C 15.98 | B 16.21 | D 16.56 | B 16.68 | A 16.96 | B 17.01 | A 17.20 | C 17.46 | D 17.68 | C | B 18.14 | C 18.36 | B 18.62 | A 18.77 | B 18.92 | A 19.14 | B 19.41 | A 19.70 | B
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)
Speed: 1–Design, 2–Posted: 50 MPH (2) | .922' 50 MPH (2) 50 MPH (2) – MINIMUM 40 MPH | 35 MPH (2) .776
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0190 00625 | B71 0190 01093
HPMS Sections – AADT 2016: 5,900 | 6,000
HPMS Sections – AADT 2015: 5,300 (10.83) | 5,200
HPMS Sections – AADT 2014: 4,700 (13.83) | N/A
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (4)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits: RS-0190(8), 1988 (R) (10.76) | 190CD-01-88M, 1988 (R) (13.25) | (15.79) 19C-01-70 (RESURF & REHAB), 1971 | FAP 10-C(1), 1938 (13.36) (13.62) | FAP E-10B, 1932 (16.45) (542 + 50) | FAP 10-A, 1932

SCALE: (In Miles) 2" = 1 mile

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

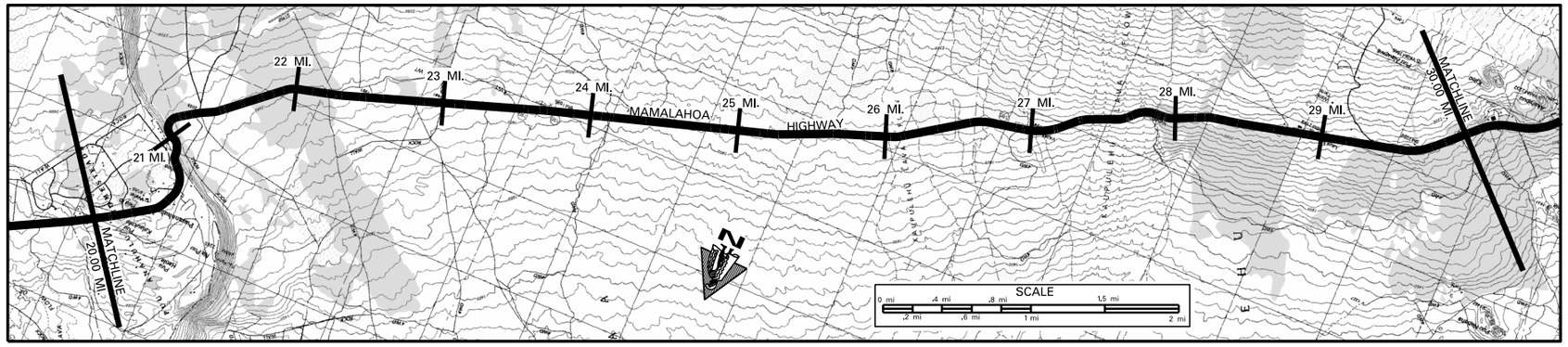
ROAD INVENTORY
HAWAII RTE 190
MAMALAHOA HIGHWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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



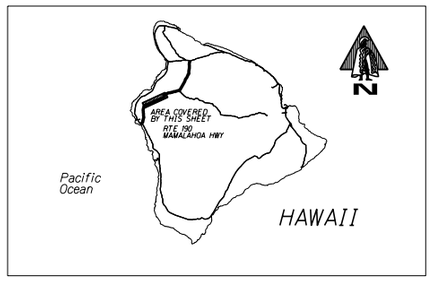
SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description
190 C (7.87 MI.) — END 190 B – BEGIN 190 C ON MAMALAHOA HWY, 0.5 MI AT THE CENTERLINE OF PUUWAAWAA RANCH ROAD — 190 B (13.91 MI.)

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

Structure Over Road
Vertical Clearance
Horizontal Clearance

Right of Way Width (min.–max.) If varies: (CLEAR 1000' LAVA ROCK, GRASS, TREES, – 10' FROM PAVEMENT) 60'–150' (DRAPE WIRE MESH) 80'–217' (DRAPE WIRE MESH)
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; 26.66 WIRE ON WOOD 15–20' FROM PAVEMENT; CRM WALL; CRM WALL; 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; ER–15(22) EMER, ROCKFALL REPAIRS, 2011
Project No., Type of Construction, and Year Constructed: (19C–01–70 (RESURF, & REHAB.) 1971); 190BC–01–90M (RESURFACE)1991; (190B–01, 1971); (STP–0100(31) – GUARDRAIL IMPROVEMENTS, 1994)



Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #2 — 20.000 MI.
PAVED RD. PUU LANI DR. — PUU WAAWAA RANCH RD. — POWER SUB-STATION — TRIG. STATION — SCENIC LOOKOUT — HUALALAI RANCH ROAD
MAMALAHOA HWY
21 MP, 22 MP, 23 MP, 24 MP, 25 MP, 26 MP, 27 MP, 28 MP, 28.5 MP, 29 MP, 29.5 MP, 30 MP
20.197 MI., 20.302 MI., 20.955 MI., 21.315 MI., 21.461 MI., 21.953 MI., 22.908 MI., 23.956 MI., 24.948 MI., 25.937 MI., 27.071 MI., 27.059 MI., 27.605 MI., 27.943 MI., 28.435 MI., 28.940 MI., 29.436 MI., 29.358 MI., 29.940 MI.
CONTINUED ON SHEET #4 — 30.000 MI.

SCALE: (In Miles) 2" = 1 mile

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

Number of Traffic Lanes: 2–11'; 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 — All Metal Rails on Metal Posts unless noted otherwise. CRM WALL
Illumination: Type, Location and Number
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2)
Speed: 1–Design, 2–Posted: 35 MPH (2); 50 MPH (2); 50 MPH (2); 50 MPH (2) (MINIMUM 40 MPH)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0190 01093
HPMS Sections – AADT 2016: 6,000
HPMS Sections – AADT 2015: 5,200
HPMS Sections – AADT 2014: N/A
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (4)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits: HES–0190(9), (IMPROV.) 1991; 190B–01–91M (R) 1992; F–10(5), 1956; F–10(5), 1954; 19C–01–70 (RESURF, & REHAB.), 1971; 190B–01–71 (RESURFACE) 1971; F 10–A, 1932; (FAP 10–A, 1933); (FAP 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.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

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

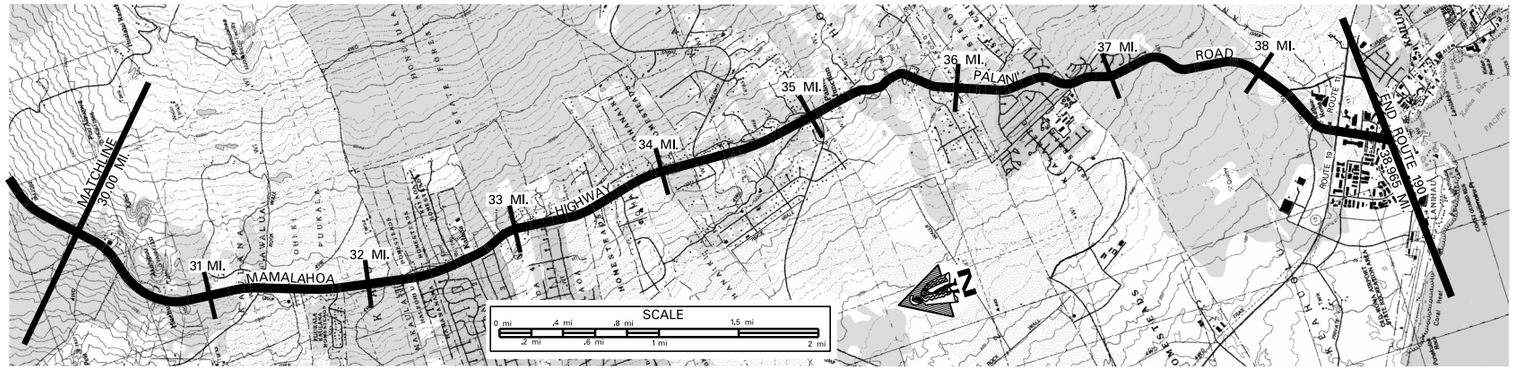
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

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

*



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 190 B (13.91 MI.) — BEGIN 190 B ON MAMALAHOA HWY AT THE CENTERLINE OF FASC 180

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

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: 80'–217' / 40'–60'

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

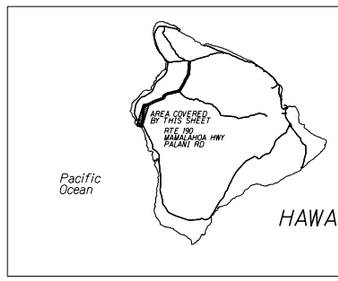
Right of Way Fence: Type – Right and Left: DRAPE WIRE MESH / STONEWALL 4'–8' FROM PAVEMENT

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

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

Project No., Type of Construction, and Year Constructed: EP-15(22) EMEC. ROCKFALL REPAIR, 2011 / STP-0100(31) – GUARDRAIL IMPRV. 1994 / (190B-02-91, (IMPRV.), 1993) / STP-0190(015),(R),2015

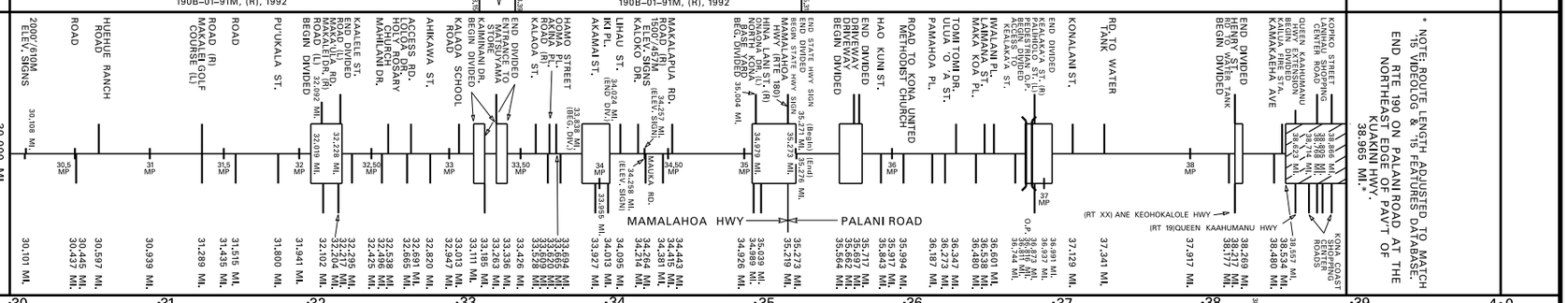
Project No., Type of Construction, and Year Constructed: 190B-01-91M, (R), 1992 / 190B-01-91M, (R), 1992



Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP = Milepost Signage



* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE. END RTE 190 ON PALANI ROAD AT THE NORTHEAST EDGE OF PAV'T OF KUAKINI HWY. 38.965 MI.*

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided
- Shoulder: Width and Type
- Pavement: Width and Type
- 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' / 2–10' / 2–12' / 4–12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) / (Right Side): 11' (L) TLs / 11' TLs / 10' TL

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

Sidewalk: Width and Type (Right and Left): 4' AC S.W. / 6' CONC. S.W. / 4' CONC. S.W.

Curb and/or Gutter: Type (Right and Left): AC CURB / 6' CONC. GUTTER / 6' CONC. CURB AND GUTTER / 6' CONC. DITCH / 12' TLs / (2' GUTTER/CURB)

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

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

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

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

Speed: 1–Design, 2–Posted: 50 MPH (2) / 50 MPH (2) (MINIMUM 40 MPH) / 45 MPH (2) / 35 MPH (2) / 25 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0190 01093 / B71 0190 03250 / B71 0190 03319 / B71 0190 03522 / B71 0190 03687 / B71 0190 03824 / B71 0190 03863

HPMS Sections – AADT 2016: 6,000 / 9,100 / 17,700 / 14,100 / 19,400 / 11,500 / 16,300

HPMS Sections – AADT 2015: 5,200 / 10,200 / 13,300 / 11,000 / 13,500 / 8,700 / 11,800

HPMS Sections – AADT 2014: N/A / 9,500 / 15,200 / 12,400 / N/A / (9,900) / 18,000

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4) / MAJOR COLLECTOR (5)

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

Previous Projects: Project No., Date and Limits: F-10(5), 1956 / 190B-02-71, RESURF., 1971 / F-10(5), 1954 / 190B-01-86M, (R) 1986 / COUNTY TO STATE – PHASE 3

SCALE: (In Miles) 2" = 1 mile

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

ROAD INVENTORY

HAWAII RTE 197
KEALAKEHE PARKWAY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

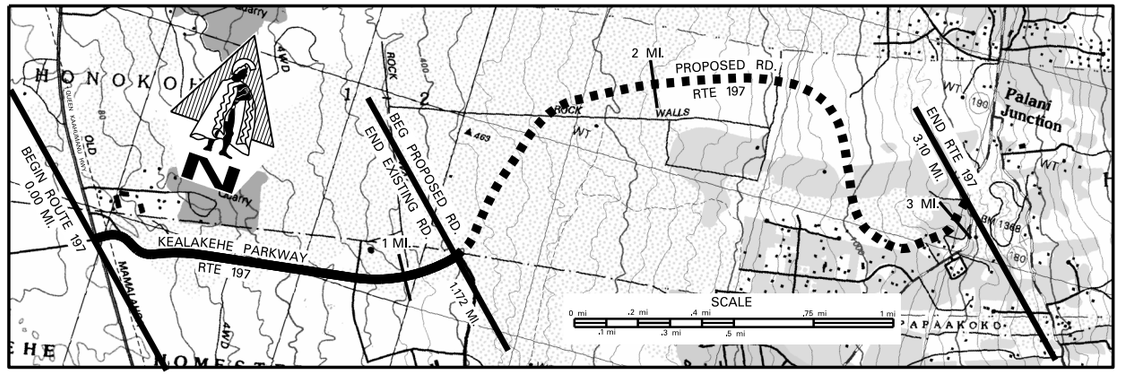
Total Route Length: 3.10 miles

a. Survey Length: 1.172 miles

b. Proposed Length: 1.928 miles

c. Other Length: * 0.00 miles

*



SCALE: (In Miles) 4" = 1 mile

Maintenance Control Sections : Length and Description

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

Structure Carrying Road: Vertical Clearance

Structure Carrying Road: Horizontal Clearance

Structure Over Road: Vertical Clearance

Structure Over Road: Horizontal Clearance

Right of Way Width (min.–max.) If varies

Available Right of Way Width (Needs Study)

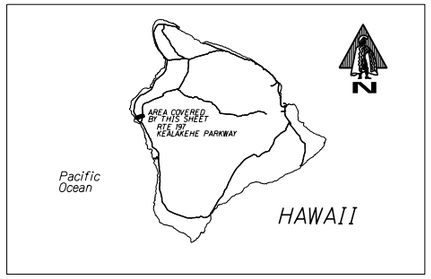
Right of Way Fence: Type – Right and Left

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

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

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed



Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP = Milepost Signage

BEGIN RTE 197 ON KEALAKEHE PARKWAY AT THE NORTHEAST EDGE OF PAVEMENT OF QUEEN KAAHUMANU HWY (RTE 19). 0.000 mi.

BEGIN DIVIDED 0.045 mi.; KAMANU ST. (L) 0.296 mi.; FUTURE RD. (L & R) 0.577 mi.; ANE KEOHOKALOLE HWY (L & R) RD TO WEST HAWAII CIVIC CENTER (L) 0.717 mi.; FUTURE RD. (L) 0.839 mi.; END EXISTING ROAD (BEGIN PROPOSED ROAD) @ CENTERLINE OF KEANALEHU DRIVE (RIGHT). 1.007 mi.

KEALAKEHE PARKWAY

PROPOSED ROAD

END RTE 197 ON PROPOSED ROAD AT SOUTH EDGE OF PAVEMENT OF PILANI ROAD. 3.10 mi.

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

END ROUTE DESCRIPTION 0.00 mi.

SCALE: (In Miles) 4" = 1 mile

Divided Highway – Undivided: Shoulder: Width and Type — 12' AC (0.27) 2' AC (0.970) 0'–14' AC (1.03) 0

Undivided: Pavement: Width and Type — (24' AC) 12' AC

Undivided: Shoulder: Width and Type — (12' AC) 0 3' AC

Divided: Median: Width and Type

Divided: Median Barriers: 12' PAINTED AC (.045); (6' AC (FLUSH) AC CURBS BOTH SIDES) (1.03); (6'–15' AC (FLUSH) AC CURBS BOTH SIDES)

Divided: Shoulder: Width and Type — 0 (0.970) 3' AC

Divided: Pavement: Width and Type — 12' AC (.321) 24' AC (0.876) 12' AC

Divided: Shoulder: Width and Type — 12' AC (0.27) 2' AC

Number of Traffic Lanes — 2–12' (.321) 1–12' 2–12' (0.554) 2–12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) — 11' AC (.945)

(Right Side) — (.255) (.296) (.189) 11' AC (.085) (0.675) (.937)

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

Sidewalk: Width and Type (Right and Left) — (0.27) 4' CONC. S.W.

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

Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise. (0.35)

Illumination: Type, Location and Number — (.209) (.247) HPS LEFT SIDE ONLY

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) — A (0.03) D (0.21) A

Superelevation (Range)

Grade Class: +/_ % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) — C (0.30) E (0.45) D (0.95) F (1.07) E (1.36) (D)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: SMALL URBAN (99998)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous — (.206) ROLLING (2)

Speed: 1–Design, 2–Posted — 25 MPH (2) (.216) 35 MPH (2) (1.83)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Station (Current Year) — B71 0197 00000

HPMS Sections – AADT 2016 — 4,900

HPMS Sections – AADT 2015 — 4,800

HPMS Sections – AADT 2014 — (0.29) 3,400 (3,627)

DOD Sections

Census Tracts

Functional Classification — MINOR ARTERIAL (4); MINOR ARTERIAL

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

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 4" = 1 mile

Date Released	
MAY	2014
Revised	
1/16	EPJ
1/17	EPJ
2/18	DB

ROAD INVENTORY
HAWAII RTE 200
SADDLE ROAD

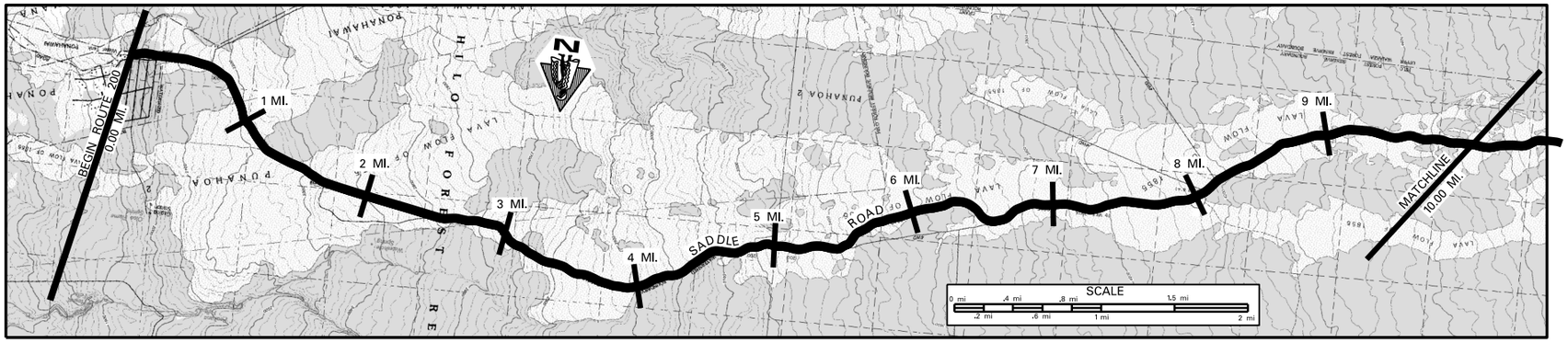
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 43.224 miles
- a. Survey Length: 43.224 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*



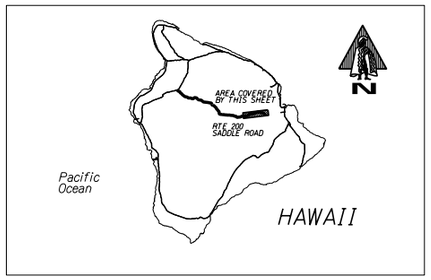
SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

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

Structure Over Road:
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies	VARIES 50'–150'
Available Right of Way Width (Needs Study)	BUSHES, GRASS & TREES
Right of Way Fence: Type – Right and Left	NONE
Control of Access: 1–None, 2–Partial, 3–Full	NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)	COUNTY
Project No., Type of Construction, and Year Constructed	
Project No., Type of Construction, and Year Constructed	1:13 RS–0200(4), COUNTY PROJECT, 1987 (R); 3:12 RS–0200(3), COUNTY PROJECT, 1987 (R)



Road Diagram

* MP = Milepost Signage

BEGIN RTE 200 ON SADDLE ROAD AT THE HILO URBAN BOUNDARY (FOREST RESERVE SIGN) APPROX. 17 MI. (897') SOUTHEAST OF TRIG STATION 0.000 MI.

TRIG STATION UA NAHELE ST.

SADDLE ROAD

MP: 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18

0.173 MI. 0.163 MI. | 0.538 MI. | 1.165 MI. | 2.244 MI. | 3.358 MI. | 3.892 MI. | 4.893 MI. | 5.897 MI. | 6.898 MI. | 7.898 MI. | 8.900 MI. | 9.900 MI.

CONTINUED ON SHEET #2 10.000 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type	2'–4' GRASS; 4' AC; 3:12 10' DIRT; 3.96 4' AC; 4.63 10' DIRT; 6.30 4' AC; 6.98 2' AC/10' DIRT; 9.18 4' AC; 9.33 10' DIRT
Pavement: Width and Type	20' BST; 1:13 22' AC
Shoulder: Width and Type	2'–4' GRASS; 4' AC; 3:12 10' DIRT; 3.60 3.96 4' AC; 4.63 10' DIRT; 6.30 4' AC; 6.98 2' AC/10' DIRT; 9.18 4' AC; 9.33 10' DIRT
Median: Width and Type	MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20)
Median Barriers:	
Shoulder: Width and Type	
Pavement: Width and Type	
Shoulder: Width and Type	

Number of Traffic Lanes	2–10'; 1:13 2–11'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	
(Right Side)	3.61 1–12' TRUCK CLIMBING LANE
Frontage Road: No. of Lanes, and Width (Right and Left)	
Sidewalk: Width and Type (Right and Left)	
Curb and/or Gutter: Type (Right and Left)	.075 .075 U
Protective Devices: Type, Location and Number (All Metal Rails on Metal Posts unless noted otherwise.)	
Illumination: Type, Location and Number	7.01
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)	C 0.25 0.10; A 0.79 0.19; BA 0.92 0.38; BA 1.20 0.62; BD 1.25 0.82; AB 1.72 1.04; CB 1.94 1.08; AC 1.77; AC 3.55; BAB 4.17; A 2.01; BA 2.60; BA C 2.69 2.90; BA D 2.90 3.03; C 3.23; BAB 3.45 3.60; A 5.94; B 5.62 5.79; A 5.79; B 5.74; A 6.27; B 6.39 6.70; A 6.70; B 6.94; A 7.09; B 7.35; A 7.50; B 7.54; A
Superelevation (Range)	
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)	F 0.13; E 0.19; C 0.38; D 0.45; B 1.23; C 1.42; D 1.50; E 1.73; C 2.20; D 2.47; C 2.68; D 2.95; F 3.34; D 3.59; B 3.90; C 4.05; D 4.23; E 4.68; D 5.11; E 5.66; D 5.90; C 6.10; D 6.71; E 6.94; D 7.42; C 7.67; D 8.08; E 8.53; D 9.25; C 9.45; D 9.64; E
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	.460 ROLLING (2)
Speed: 1–Design, 2–Posted	(NOT POSTED) .186; 35 MPH (2); .489 45 MPH (2); .770; 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	
Traffic Stations (Current Year)	B71 0200 00000
HPMS Sections – AADT 2016	4,600
HPMS Sections – AADT 2015	4,200
HPMS Sections – AADT 2014	N/A
DOD Sections	
Census Tracts	
Functional Classification	MINOR ARTERIAL (4)
National Highway System (NHS)	NOT ON NHS (0)
Previous Projects: Project No., Date and Limits	

SCALE: (In Miles) 2" = 1 mile

Date Released	
NOV. 05,	D.B.
Revised	
7/06	D.B.
9/07	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

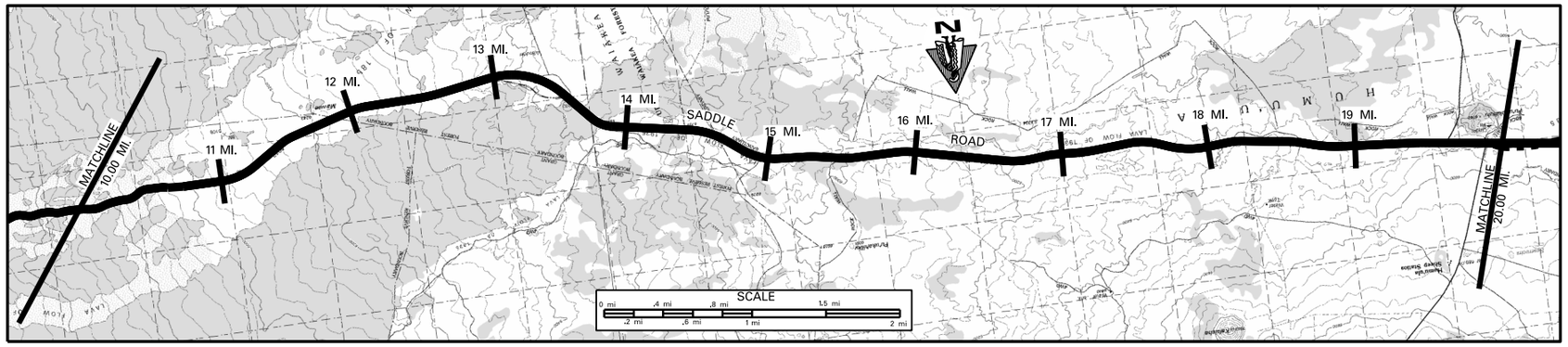
ROAD INVENTORY
HAWAII RTE 200
SADDLE ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 43.224 miles
a. Survey Length: 43.224 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles
*

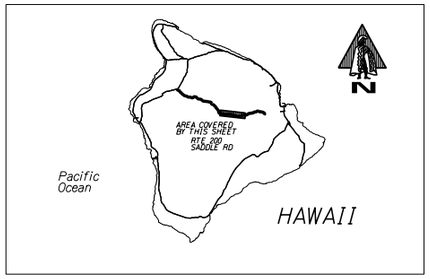


SCALE: (In Miles) 2" = 1 mile

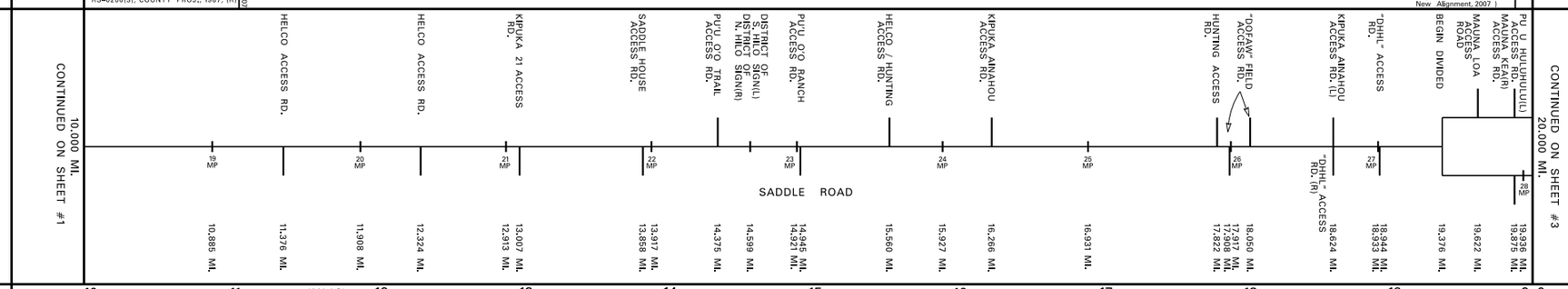
Maintenance Control Sections : Length and Description

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

Right of Way Width (min.–max.) If varies: VARIES 50'–100' (10.296); VARIES 170'–196' (10.296–19.875); 196'
Available Right of Way Width (Needs Study): BRUSH, GRASS AND TREES (11.247); 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.) (14.487–14.74)
Control of Access: 1–None, 2–Partial, 3–Full: NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C): COUNTY; STATE (10.885)
Project No., Type of Construction, and Year Constructed: (10.296); STP 200(1), NEW ALIGNMENT & WIDENING, 2008; (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) (11.247)



Road Diagram
* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided:
Shoulder: Width and Type: MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20)
Pavement: Width and Type: 22' AC (4' AC)
Shoulder: Width and Type: MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20)
Median: Width and Type
Median Barriers:
Shoulder: Width and Type
Pavement: Width and Type
Shoulder: Width and Type: MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20)

Number of Traffic Lanes: 2–11' (10.296); 2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side): 1–12' TRUCK CLIMBING LANE (15.71); 1–12' (L) TL (.481–.672); 1–12' (R) TL (.755–.875)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left)
Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise.
Illumination: Type, Location and Number
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)
Superelevation (Range)
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)
Vertical Curve: Crest or Sag, Curve Limits
Area and Development: RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous: ROLLING (2); FLAT (1)
Speed: 1–Design, 2–Posted: 55 MPH (2); 45 MPH (2); 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing
Traffic Stations (Current Year): B71 0200 00000
HPMS Sections – AADT 2016: 4,600
HPMS Sections – AADT 2015: 4,200
HPMS Sections – AADT 2014: N/A
DOD Sections
Census Tracts
Functional Classification: MINOR ARTERIAL (4)
National Highway System (NHS): NOT ON NHS (0)
Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

Date Released	
NOV. 05,	D.B.
Revised	
7/06	D.B.
9/07	D.B.
1/09	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

ROAD INVENTORY
HAWAII RTE 200
SADDLE ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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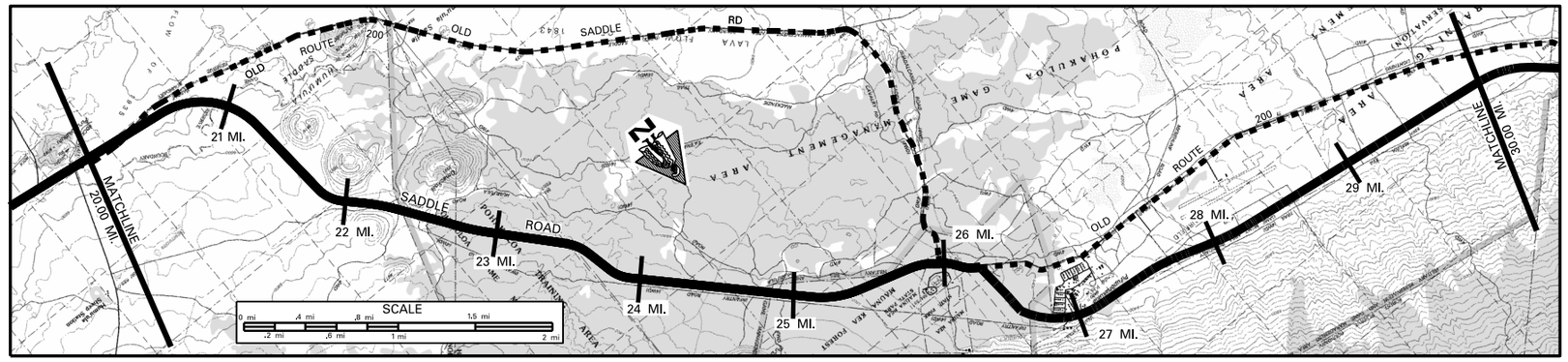
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 43.224 miles
- **a. Survey Length:** 43.224 miles
- **b. Proposed Length:** 0.00 miles
- **c. Other Length: *** 0.00 miles

*



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

Structure Carrying Road
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: 2 CELL BOX CULVERT 24' (24.61)
- Vertical Clearance
- Horizontal Clearance

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: 196' (20.07) 174' (21.19) 160' (22.15) 140' (22.61) 196' (25.58) VARIES 50'–150' (26.34)

Available Right of Way Width (Needs Study): 1000' CLEAR – LAVA ROCK W/ SMALL BUSHES 10'–15' FROM E.P. (25.58); 1000' CLEAR – GRASSLAND W/ BUSHES & SMALL TREES 10'–15' FROM E.P. (26.34)

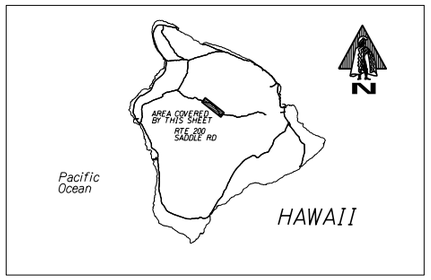
Right of Way Fence: Type – Right and Left: (WIRE ON METAL 10' FROM E.P.) (26.34) (27.03)

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

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): STATE (380 + 00)

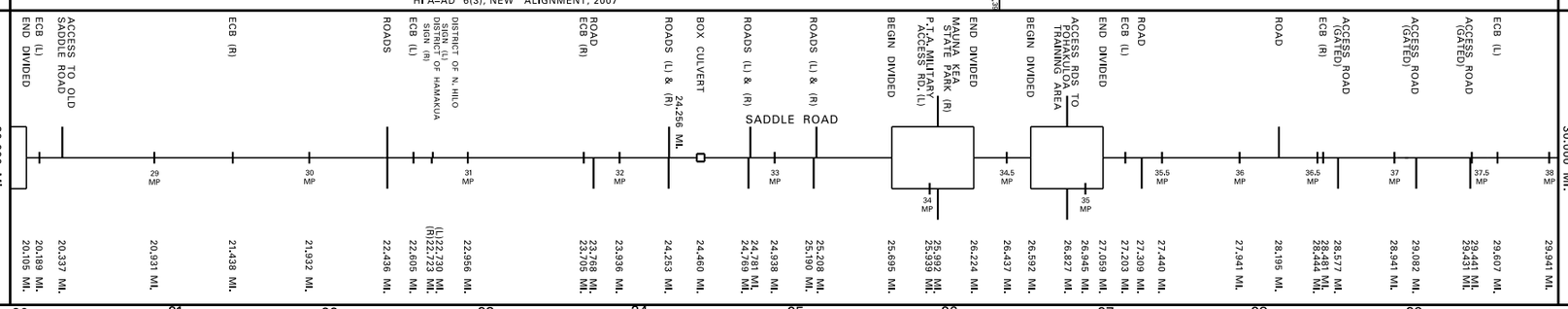
Project No., Type of Construction, and Year Constructed: (HI–A–AD–6(5), NEW ALIGNMENT, (DEFENCE ACC. RD.), 2010) (25.78) (26.02) (26.08); 0 + 00 HI–A–AD–6(5), NEW ALIGNMENT, (DEFENCE ACC. RD.), 2010 (26.34)

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: MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20) — 8" AC
- Pavement: Width and Type: 12' AC; 24' AC; 12' AC; 24' AC; 12' AC; 24' AC
- Shoulder: Width and Type: MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20) — 0; 8' AC; 22.20; 16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER; 0; 0; 16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER
- Median: Width and Type: (0'–20' PAINTED AC) .896; 0'–20' PAINTED AC .895; .294; .592; 0'–18' PAINTED AC .099
- Median Barriers:
- Shoulder: Width and Type: 0; 0; 0
- Pavement: Width and Type: 12' AC; 12' AC; 12' AC
- Shoulder: Width and Type: MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20) — 8" AC; (16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER); (16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER)

Number of Traffic Lanes: 2–12'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side): 1–12' (L) TL (.156); 1–12' (R) TL (.879); 12' TLs (.702, .827, .952, .869, .689, .827, .778, .943)

(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): .294; .107

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

Illumination: Type, Location and Number

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62): A; 21.69 B 21.99; A; 23.76 B 23.94; A

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45): B 20.34; A; 20.84 B 20.95; C 21.41; B; 22.05; C 23.21; B; 25.35; C 25.74; B 26.07; C 27.16; D 27.46; C; 29.18; B

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

Terrain: 1–Flat, 2–Rolling, 3–Mountainous: FLAT (1); 23.71; .900; ROLLING (2); .926; 27.99; FLAT (1)

Speed: 1–Design, 2–Posted: 55 MPH (2); 45 MPH (0) .648; .138; 40 MPH (2); .107; 55 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0200 00000; B71 0200 02002

HPMS Sections – AADT 2016: 4,600; 4,600

HPMS Sections – AADT 2015: 4,200 (20.00); 4,200

HPMS Sections – AADT 2014: N/A

DOD Sections

Census Tracts

Functional Classification: MINOR ARTERIAL (4)

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

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

Date Released	
NOV. 05	D.B.
Revised	
7/06	D.B.
9/07	D.B.
1/09	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

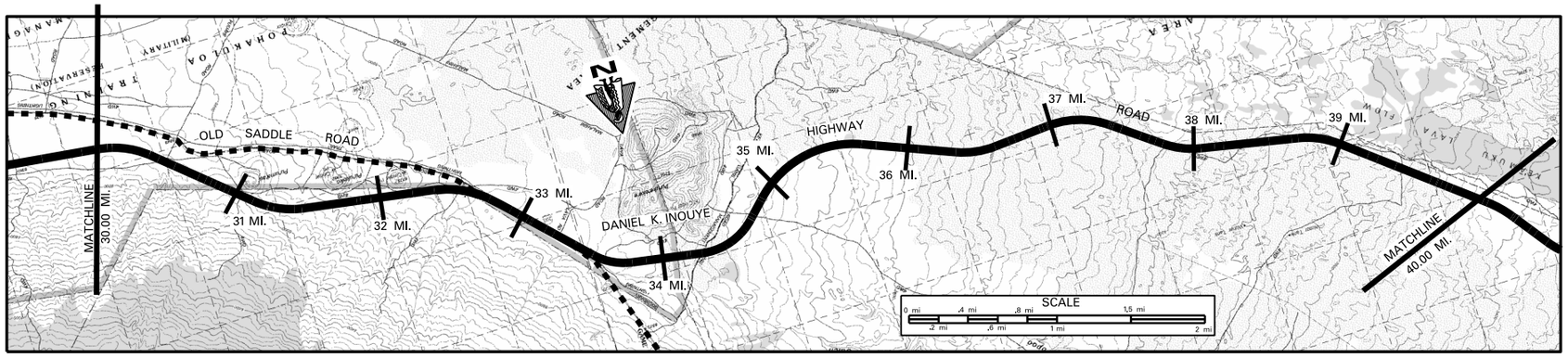
ROAD INVENTORY
HAWAII RTE 200
SADDLE ROAD, DANIEL K. INOUYE HWY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 43.224 miles
a. Survey Length: 43.224 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles
*



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

Structure Carrying Road

Bridges (Over 20'): Length, Type, Capacity and Year Constructed — CULVERT-CORR. METAL PIPE 1957, HS-20 (4' at 38.33; 16')

Vertical Clearance

Horizontal Clearance

Structure Over Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.-max.) If varies — ESTIMATED 100'-150'

Available Right of Way Width (Needs Study) — 1000' CLEAR- PASTURELAND 30' FROM EDGE OF PAVEMENT

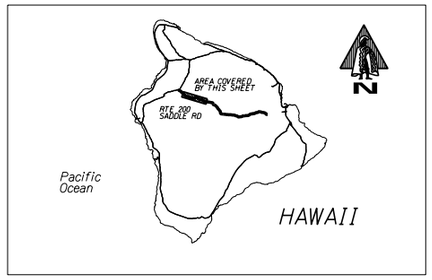
Right of Way Fence: Type - Right and Left — ALL WIRE ON WOOD 30' FROM EDGE OF PAVEMENT (25.41; 25.47; 25.57; 25.63; 30.08; 30.44)

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

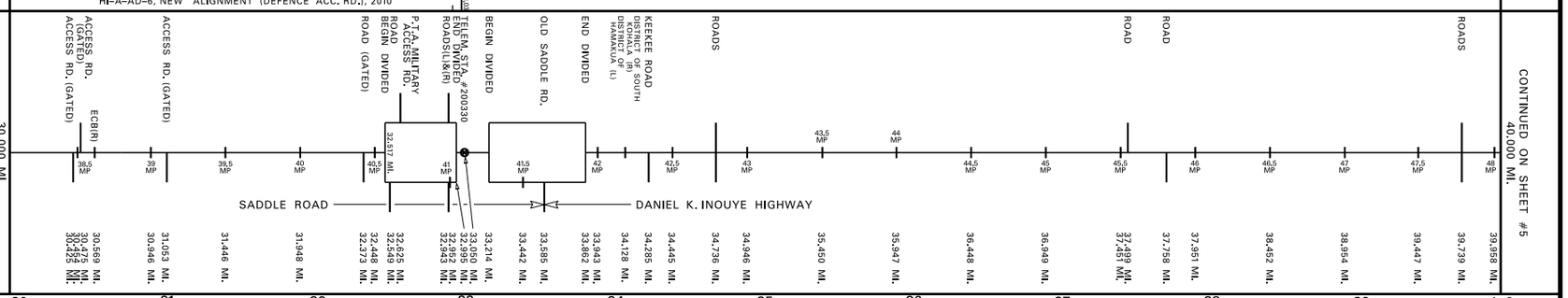
Jurisdiction, Transfer Phase No. and Date (C to S or S to C) — STATE (0+00 to 1003+00) / COUNTY

Project No., Type of Construction, and Year Constructed — HI-A-AD-6(7), NEW ALIGNMENT (DEFENCE ACC. RD.), 2013

Project No., Type of Construction, and Year Constructed — HI-A-AD-6, NEW ALIGNMENT (DEFENCE ACC. RD.), 2010



Road Diagram
* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type — MILLED SHOULDERS RUMBLE STRIPS (3.60-43.20) — 16' AC / 8' AC

Pavement: Width and Type — 24' AC / 12' AC / 24' AC / 12' AC / 24' AC

Shoulder: Width and Type — MILLED SHOULDERS RUMBLE STRIPS (3.60-43.20) — 16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER / 0 / 0 / 8' AC

Median: Width and Type — 0'-20' PAINTED AC (.517) / 0'-15' PAINTED AC (.234)

Median Barriers:

Shoulder: Width and Type — 0 / 0

Pavement: Width and Type — 12' AC / 12' AC

Shoulder: Width and Type — MILLED SHOULDERS RUMBLE STRIPS (3.60-43.20) — (16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER) / (8' AC) / (16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER)

Number of Traffic Lanes — (16' AC WITH 4' WIRE FENCE AT EDGE OF SHOULDER) / 2-12'

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

(Right Side) — .754; .676; .545; .204; .727; .988; .515; .440; .657; .585; BRAKE CHECK AREA

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

Sidewalk: Width and Type (Right and Left)

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

Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise. — .540; .754

Illumination: Type, Location and Number

Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.85) E(13.85-28.62) F(<28.62) — A (33.55)

Superelevation (Range)

Grades Class: +/- % (A(0-.45) B(.45-2.45) C(2.45-4.45) D(4.45-6.45) E(6.45-8.45) F(<8.45) — B (30.41); C (30.74); B (31.48); E (31.89); D (32.56); C (32.26); B (33.71)

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: — RURAL (99999)

Terrain: 1-Flat, 2-Rolling, 3-Mountainous — FLAT (30.69; .186) / ROLLING (2)

Speed: 1-Design, 2-Posted — 55 MPH (2) (.720) / 45 MPH (2) (.260) / 55 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year) — B71 0200 02002

HPMS Sections - AADT 2016 — 4,600

HPMS Sections - AADT 2015 — 4,200

HPMS Sections - AADT 2014 — N/A

DOD Sections

Census Tracts

Functional Classification — MINOR ARTERIAL (4)

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

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

Date Released	
FEB. 2006	D.B.
Revised	
7/06	D.B.
9/07	D.B.
1/09	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

ROAD INVENTORY
HAWAII RTE 200
DANIEL K. INOUYE HWY.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

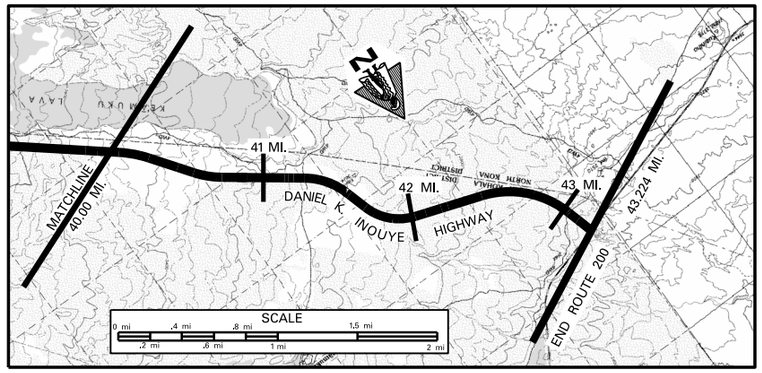
Total Route Length: 43.224 **miles**

a. Survey Length: 43.224 **miles**

b. Proposed Length: 0.00 **miles**

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

*



SCALE: (In Miles) 2" = 1 mile

40 41 42 43 44 45 46 47 48 49 50

Maintenance Control Sections : Length and Description

Structure Carrying Road

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

Vertical Clearance

Horizontal Clearance

Structure Over Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.–max.) If varies

Available Right of Way Width (Needs Study)

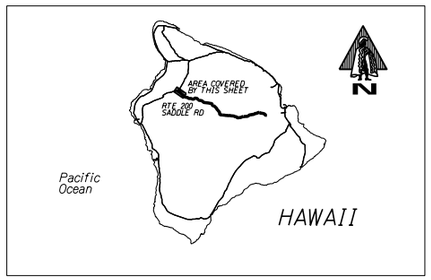
Right of Way Fence: Type – Right and Left

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

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

Project No., Type of Construction, and Year Constructed — HI–A–AD–6(7), NEW ALIGNMENT (DEFENCE ACC. RD.), 2013

Project No., Type of Construction, and Year Constructed



Road Diagram

* MP = Milepost Signage

CONTINUED FROM SHEET #4 — 40.000 MI.

ROAD

BEGIN DIVIDED

48.5 MP, 49 MP, 49.5 MP, 50 MP, 50.5 MP, 51 MP

DANIEL K. INOUYE HIGHWAY

40.456 MI., 40.958 MI., 41.532 MI. / 41.458 MI., 41.959 MI., 42.460 MI., 42.961 MI., 43.132 MI.

END RTE 200 ON SADDLE ROAD AT THE EAST EDGE OF PAVEMENT OF MAMALAHOA HWY (RTE 190) * 43.224 MI.

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

SCALE: (In Miles) 2" = 1 mile

40 41 42 43 44 45 46 47 48 49 50

Divided Highway — Undivided

Shoulder: Width and Type — MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20); 8' AC

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

Shoulder: Width and Type — MILLED SHOULDERS RUMBLE STRIPS (3.60–43.20); 8' AC; 0

Median: Width and Type — 0'–8' PAINTED AC

Median Barriers: — .332

Shoulder: Width and Type — 0

Pavement: Width and Type — 12' AC

Shoulder: Width and Type

Number of Traffic Lanes — 2–12'

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

(Right Side)

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

Sidewalk: Width and Type (Right and Left)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: — RURAL (99999)

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

Speed: 1–Design, 2–Posted — 55 MPH (2); 45 MPH (2) .0098; .0097; 35 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year) — B71 0200 02002

HPMS Sections – AADT 2016 — 4,600

HPMS Sections – AADT 2015 — 4,200

HPMS Sections – AADT 2014 — N/A

DOD Sections

Census Tracts

Functional Classification — MINOR ARTERIAL (4)

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

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

40 41 42 43 44 45 46 47 48 49 50

Date Released	
NOV. 05,	D.B.
Revised	
7/06	D.B.
8/07	D.B.
1/09	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

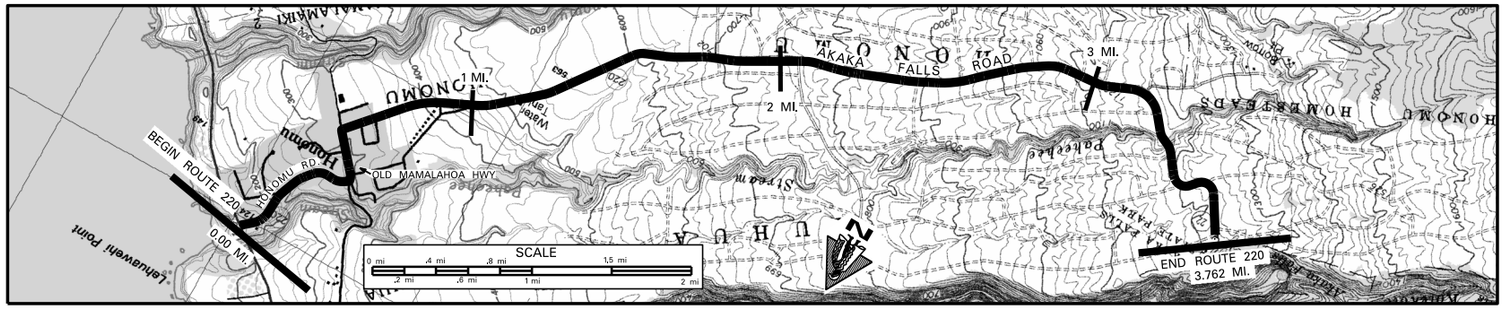
ROAD INVENTORY
HAWAII RTE 220
HONOMU RD., OLD MAMALAHOA HWY., AKAKA FALLS RD.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 3.762 miles
- **a. Survey Length:** 3.762 miles
- **b. Proposed Length:** 0.00 miles
- **c. Other Length:** 0.00 miles



SCALE: (In Miles) 4" = 1 mile

Maintenance Control Sections : Length and Description

END 220A SAME AS ROUTE | 220A (3.76 MI.) | BEG 220A SAME AS ROUTE

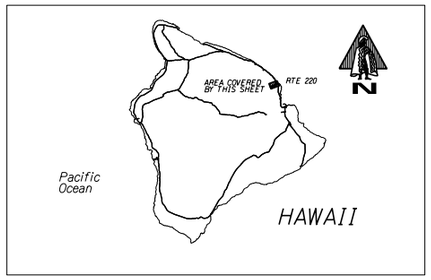
Structure Carrying Road

Bridges (Over 20'): Length, Type, Capacity and Year Constructed	SLAB 1927 H10
Vertical Clearance	27'
Horizontal Clearance	14'

Structure Over Road

Vertical Clearance	
Horizontal Clearance	

Right of Way Width (min.–max.) If varies	40'–50' (0.243) 80' (0.391) 40' (1.08) 80'
Available Right of Way Width (Needs Study)	RESIDENTIAL AREA (0.469) 1000' CLEAR SUGAR CANE FIELD – 15' FROM EDGE OF PAVEMENT
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 (8+70)
Project No., Type of Construction, and Year Constructed	STA 21+87.59 — 220A–01–03M RESURF 2005 (0.58) — 220A–01–02M, (R), 2004
Project No., Type of Construction, and Year Constructed	220A–01–90M, 1990



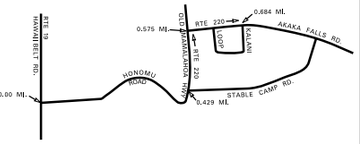
Road Diagram
* MP = Milepost Signage

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

PUA ST. (0.006 MI.) — STORE DRIVEWAY POST OFFICE RDS. (0.163 MI.) — STABLE CAMP RD. OLD MAMALAHOA HWY (0.281 MI., 0.288 MI., 0.246 MI.) — KOKOKE KAI ST. (0.429 MI., 0.413 MI.) — OLD MAMALAHOA HWY AKAKA FALLS RD. (R) (0.502 MI.) — KALANI LOOP (L) (0.575 MI.) — DRIVEWAY (0.640 MI.) — DRIVEWAY (0.684 MI.) — DRIVEWAY (0.743 MI.) — STABLE CAMP RD. (0.837 MI.) — WATER TANK ELEV. 500' MARKER (0.900 MI., 0.984 MI., 1.154 MI., 1.178 MI.) — KAHALONO ROAD (3.021 MI.) — PAHEEHEE MAUKA BRIDGE #3 (3.172 MI., 3.351 MI.)

0 MP — HONOMU ROAD — OLD MAMALAHOA HWY — AKAKA FALLS ROAD — 2 MP (1.998 MI.) — 3 MP

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '15 VIDEOLOG & '15 FEATURES DATABASE. END RTE 220 ON AKAKA FALLS ROAD AT THE ENTRANCE TO AKAKA FALLS PARKING LOT GATE. 3.762 MI.*



SCALE: (In Miles) 4" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type	4' AC (0.24) 5' AC (0.48) 16' AC 8' AC 4' AC (0.840) 22' AC
Pavement: Width and Type	22' AC (0.69) 24' AC (0.575) 24' AC
Shoulder: Width and Type	4' AC (0.41) 3' GRASS 4' AC

Divided Highway

Median: Width and Type	
Median Barriers:	
Shoulder: Width and Type	
Pavement: Width and Type	
Shoulder: Width and Type	(0.840) 2–11'

Number of Traffic Lanes	2–11' (0.575) 2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	(0.47) 8' PARKING LANES
(Right Side)	(0.69) (0.575)
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)	(0.391) (0.391) (0.522) (0.674) (0.391) (0.391) (0.602) (0.694)
Protective Devices: Type, Location and Number — ALL GUARDRAILS METAL ON METAL UNLESS OTHERWISE NOTED	(0.176) (0.248) (0.288) (0.345) (0.483) (0.619) (0.287) (0.374) (0.478) (0.567) (0.694)
Illumination: Type, Location and Number	
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)	ED (0.11) AC AC (0.20) E (0.45) CAF (0.59) AB (1.07) A (1.27) BA (1.53) DA (1.74) BA (2.07) CA (2.84) CA (3.01) CA (3.12) D (3.26) ADE (3.38) AE (3.62) A
Superelevation (Range)	
Grade Class: +/_ % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)	F (0.18) E (0.25) C (0.47) B (0.53) C (0.59) D (0.67) F (0.87) D (1.01) E (1.18) D (1.95) C (2.06) D (2.27) F (2.36) E (2.57) F (2.72) E (2.86) D (3.14) B (3.33) D (3.48) B
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	ROLLING (2)
Speed: 1–Design, 2–Posted	25 MPH (2) (.987) (1.07) (35 MPH (2)) 45 MPH (2) (35 MPH (2)) (.683) 25 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	
Traffic Station (Current Year)	B71 0220 00000 — B71 0220 00058
HPMS Sections – AADT 2016	1,600 (0.58) 690
HPMS Sections – AADT 2015	1,700 820 (3.762)
HPMS Sections – AADT 2014	(0.28) 1,800 (3.34) 760
DOD Sections	MAJOR COLLECTOR (5)
Census Tracts	NOT ON NHS (0)
Functional Classification	
National Highway System (NHS)	
Previous Projects: Project No., Date and Limits	
	(220A–01–72, 1972 (R)) 0.48 (S–246–1, 1950) — 220A–01–79M, 1978 (R); PMS–0100(8), UNIT 5 — 3.62 (STP–0100(31), 1994)
	0.43 (S–246–1, 1950) CTY. (8+16) 0.59 (5+10) (220A–02–72, 1973) 1.11 (27+92) (105+09) A–220–01–64, 1965 2.69 (31+53) COUNTY 3.07 (37+03) A–22–01–61, 1961 3.62 (7+50) CTY.

SCALE: (In Miles) 4" = 1 mile

Date Released
SEPT 05, DB

Revised	
5/06	G.N.
9/10	G.N.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
7/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

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

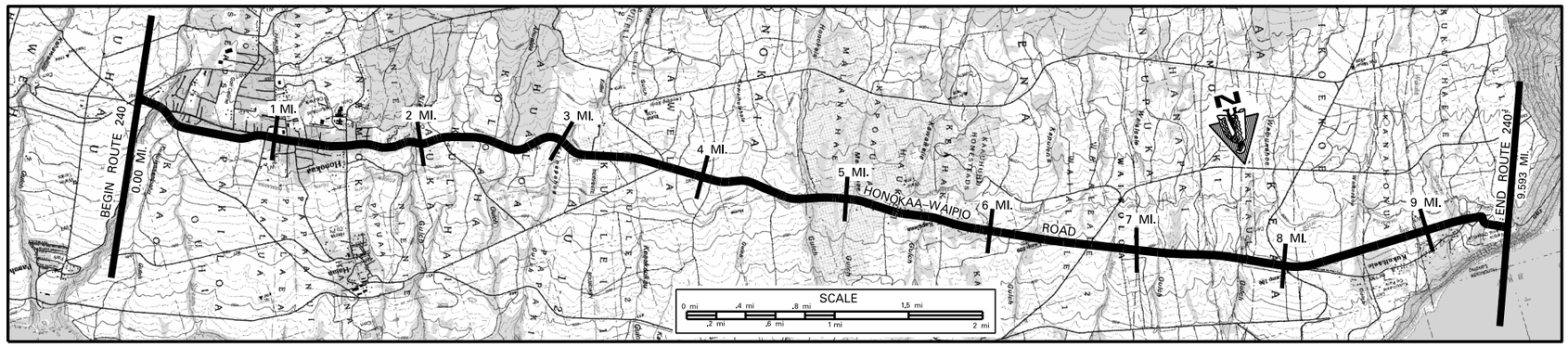
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 9.593 miles
- a. Survey Length: 9.593 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: END 240 A SAME AS BEGIN ROUTE; 240 A (9.62 MI.); BEGIN 240 A SAME AS END ROUTE

Structure Carrying Road

Bridges (Over 20'): Length, Type, Capacity and Year Constructed: CULVERT 1953, HS–20 (27'); TEE BEAM, 1967, HS–20 (80'); CULVERTS 1966, HS–20 (24', 51', 51', 154'); PRESTRESSED CONCRETE GIRDER 1967, HS–20 (206'); PRESTRESSED CONCRETE BEAM 1971 HS–20 (115') 1972 (67'); PRESTRESSED CONCRETE GIRDER 1979, HS–20–44 (100')

Vertical Clearance: 0.21; 1.96; 4.81; 5.01; 5.55; 6.84; 7.73; 9.17

Horizontal Clearance: 24'; 28'; 36'; 36'; 36'; 36'; 28'; 36'; 36'; 36'

Structure Over Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.–max.) If varies: 80'–235'; 40'–60'; 80'–100'; 80'–138'; 80'–174'; 80'–110'; 80'–215'; 90'; 90'–130'; 100'–140'; 100'–130'; 90'–100'; 70'

Available Right of Way Width (Needs Study): (1000' CLEAR 15'–20' FROM E.P.); SUGAR CANE (L) RESIDENTIAL (R); RESIDENTIAL / TOWN; 1000' CLEAR – SUGAR CANE 15'–20' FROM E.P.; RES. AREA; 1000' CLEAR – SUGAR CANE 15'–25' FROM E.P.; TREES & BUSHES; RESIDENTIAL AREA; 1000' CLEAR – SUGAR CANE 25' FROM E.P.; RESIDENTIAL AREA; RESIDENTIAL WITH SUGAR CANE ON SIDE; TREES & BUSHES; RES. AREA

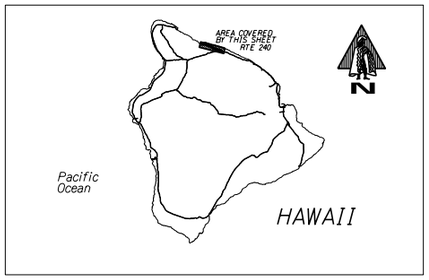
Right of Way Fence: Type – Right and Left: (CHAINLINK FENCE)

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

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

Project No., Type of Construction, and Year Constructed: 240A–01–92M, RESURFACE, 1994

Project No., Type of Construction, and Year Constructed: STP–0100(31), 1994; 240A–01–72, (R), 1972; S–0240(3) UNIT 2, 1970; S–0240(2), 1965; S–0240(4), 1967; 240A–01–67, 1970; 240A–02–71, 1972; 240A–01–71, UNIT 1, NEW CONSTRUCTION, 1979; 240A–01–71, UNIT 2, NEW CONSTRUCTION, 1979



Road Diagram

* MP = Milepost Signage

BEGIN RTE 240 ON HONOKAA–WAIPIO RD AT THE NORTH EDGE OF PAVEMENT OF HAWAII BELT ROAD (RTE 19). 0.00 MI.

END RTE 240 ON HONOKAA–WAIPIO RD. AT THE CENTERLINE INTERSECTION WITH WAIPIO VALLEY LOOKOUT. 9.593 MI.

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

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided

Shoulder: Width and Type: 3'–6' AC; 6' AC; 7' AC; 6' AC

Pavement: Width and Type: (12' AC) 24' AC (43' AC); 24' AC

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

Median: Width and Type: (0–12' PAINTED MEDIAN)

Median Barriers:

Shoulder: Width and Type: (0')

Pavement: Width and Type: (12' AC)

Shoulder: Width and Type: (3'–6' AC)

Number of Traffic Lanes: 2–12'; 2–12'; 2–12'

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

(Right Side): 8' PARKING LANE

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

Sidewalk: Width and Type (Right and Left): 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 — All Metal Rails on Metal Posts unless noted otherwise. M/C = Metal Rails on Concrete Posts.

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: RURAL (99999)

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

Speed: 1–Design, 2–Posted: 40 MPH (2); 25 MPH (2); 45 MPH (2); 45 MPH (2); 35 MPH (2); 45 MPH (2); 20 MPH (2); 35 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0240 00000; B71 0240 00108; B71 0240 00148; B71 0240 00194; B71 0240 00804

HPMS Sections – AADT 2016: 2,700; 3,900; 2,500; 1,600; 710

HPMS Sections – AADT 2015: 2,400; 4,400; 2,700; 1,600; 703

HPMS Sections – AADT 2014: 2,800; 4,900; 2,400; 4,900; 1,400; 680

DOD Sections

Census Tracts

Functional Classification: MAJOR COLLECTOR (5)

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

Previous Projects: Project No., Date and Limits: 240A–01–83M (R), 1983; S–238(1), 1952,53; 240A–01–72, (R); (S–0240(3) U–2, 1970); S–0240(2) 1965; (S–0240(3), UNIT 1, 1966); S–0240(4) UNIT 2, 1966; 240A–01–67, 1970; COUNTY

SCALE: (In Miles) 2" = 1 mile

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

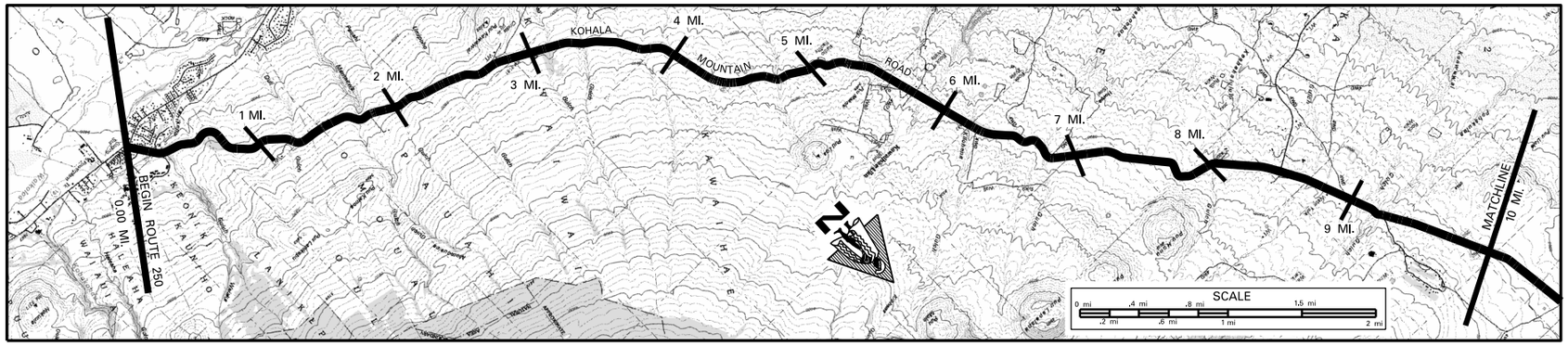
ROAD INVENTORY
HAWAII RTE 250
KOHALA MOUNTAIN ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 19.276 miles
a. Survey Length: 19.276 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles
*



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: Begin 250A on Kohala Mountain Road 34' N.W. of West E.P. of Kawaihae Rd. — 250 A (19.23 mi.)

Structure Carrying Road
- Bridges (Over 20'): Length, Type, Capacity and Year Constructed: 50' Slab HS 20 1961 (5.90); 31' Culvert H20 1953 (6.82)
- Vertical Clearance
- Horizontal Clearance: 36' ; 18'

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: 60' (3.85); 80'–120' (4.54); 80'–130' (5.28); 80'–145' (5.85); 80' (6.07); Estimated 80'–140'

Available Right of Way Width (Needs Study): Mountainous Ranch / Pastureland with Trees; Heavy Trees (7.45); Mountainous Pasture with Trees (1000' Clear most of the way)

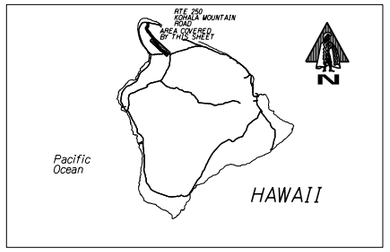
Right of Way Fence: Type – Right and Left (W/W=Wire on Wood, E.P.=from Edge of Pavement): (Stonewall); Wood Posts; W/W 30' E.P.; W/W 20' E.P.; W/W 50' E.P.; W/W 25' E.P.; W/W 10' E.P.; W/W 20' E.P.; Wire on Wooden Posts 10'–50' from Edge of Pavement

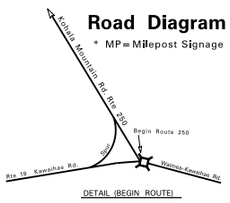
Control of Access: 1–None, 2–Partial, 3–Full: None

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): 772+34; 570+00; State

Project No., Type of Construction, and Year Constructed: 250A–01–06M, PAV'T REPAIRS, 2011

Project No., Type of Construction, and Year Constructed: HWY–H–02–15M, 2017; STP–0100 (31), 1994 Guardrail Improv.; 250A–01–91M (R) 1992; 250A–01–92M (R) 1993





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

KOHALA MOUNTAIN ROAD — 0.000 mi. — 2.162 mi. — 10.000 mi.

Oni Aku Pl. — Lanikepu Rd. — Roads to Hawaii Dept. of Agriculture — Spur to Kawaihae Rd. — 0.013 mi.

Culvert — 3000'/914m Elev. Signs — Road to Com. Sta. — Lookout — Honokoa Bridge — 3364'/1086m Crest Signs 6.305 mi. — Kawaihae Uka Bridge — "District of North Kohala" sign (+) — "District of South Kohala" sign (–) — Culvert — End Divided Kohala Ranch Rd. — Begin Divided — Kahua Ranch Road — Culvert — Culvert — 3000'/915m Elev. Signs

MP: 3, 3.5, 4, 4.5, 5 MP & KM, 5.5, 6, 7, 8, 9, 10, 11, 12

0.421 mi. 0.933 mi. 1.084 mi. 1.434 mi. 1.933 mi. 2.161 mi. 2.434 mi. 2.936 mi. 3.427 mi. 4.433 mi. 5.065 mi. 5.331 mi. 5.432 mi. 5.881 mi. 6.306 mi. 6.434 mi. 6.812 mi. 7.433 mi. 8.044 mi. 8.240 mi. 8.364 mi. 8.435 mi. 8.483 mi. 8.575 mi. 9.203 mi. 9.245 mi. 9.472 mi. 9.620 mi. 9.770 mi. 9.797 mi.

CONTINUED ON SHEET #2.

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided
- Shoulder: Width and Type: 3' AC; 6'–10' AC; 2' AC / 4' Grs.; 2' AC / 6' Grs.
- Pavement: Width and Type: 18' AC; 24' AC; 18' AC; (23' AC); 25' AC; 20' AC; 18' AC; 20' AC
- Shoulder: Width and Type: 6' AC; 3' AC; 2' AC 2' GRS; 6'–8' AC; 2' AC / 2' Grs.; 2' AC/ 6' Grv.; 2' AC / 4' Grs.; 2' AC / 2' Grs.
- Median: Width and Type: 0'–11' PNTD AC
- Median Barriers:
- Shoulder: Width and Type
- Pavement: Width and Type
- Shoulder: Width and Type

Number of Traffic Lanes: 2–9'; 2–12'; 2–9'; (1–11') 1–13' 1–12'; 2–10'; 2–9'; 2–10'

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

(Right Side): .483 .400

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

Sidewalk: Width and Type (Right and Left)

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

Protective Devices: Type, Location and Number (All Metal Rails on Metal Posts unless noted otherwise. M/C=Metal Rails on Concrete Posts.): M/C

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: Small Urban (99998); Rural (99999)

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

Speed: 1–Design, 2–Posted: 35 MPH (2); 35 MPH (2); Not Posted; 40 MPH(2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0250 00000; B71 0250 00022

HPMS Sections – AADT 2016: 3,200; 2,400

HPMS Sections – AADT 2015: 2,300; 2,300

HPMS Sections – AADT 2014: 3,100

DOD Sections

Census Tracts

Functional Classification: Major Collector (5)

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

Previous Projects: Project No., Date and Limits: (250A–01–91M (R) 1992); 250A–01–90M (R) 1991; 250A–01–91M (R) 1992; 250A–01–73, 1973; FAP E–11A 1932; (FAP E–11A, 1933); (250A–01–72 (R), 1972); 250A–01–75M, 1975; S–239(1) 1954, 56; 250A–01–75M, 1975; (S–0250 (2), 1961); S–0250 (1), 1956; 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.
2/11	D.B.
2/12	D.B.
2/13	E.P.J.
12/13	E.P.J.
8/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

ROAD INVENTORY

HAWAII RTE. 250

KOHALA MOUNTAIN ROAD AND HAWI ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

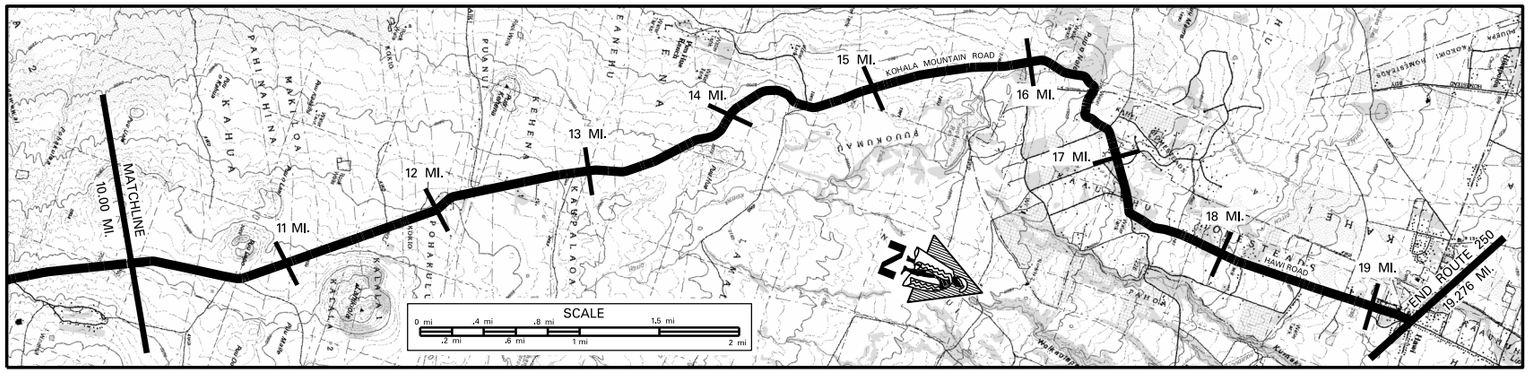
Total Route Length: 19.276 miles

a. **Survey Length:** 19.276 miles

b. **Proposed Length:** 0.00 miles

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

*



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

250A (19.23 mi.)

Structure Carrying Road

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

Structure Over Road

- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies: Estimated 80'–140'; Estimated 80'–100'

Available Right of Way Width (Needs Study): Mountainous, Pasture w/ Trees (1000' Clear, Most of the Way)

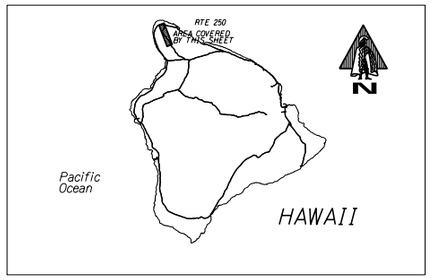
Right of Way Fence: Type – Right and Left W/W=Wire on Wood, E.P.=from Edge of Pavement: W/W 20' E.P.; W/W 15'–50' E.P.; W/W 15' E.P.; W/W 15' E.P.; W/W 12' E.P.; W/W 20' E.P.; W/W 10' E.P.; W/W 12' E.P.

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

Jurisdiction, Transfer Phase No. and Date (C to S or S to C): State; 200 + 00; 121 + 50

Project No., Type of Construction, and Year Constructed: 250A–01–02M, Resurface 2005

Project No., Type of Construction, and Year Constructed: 250A–01–92M,(R) 1993; 250A–01–96M, Resurface 2000; 250A–01–89M (R) 1989; 250A–01–91M (R) 1992



Road Diagram

* MP = Milepost Signage

10.000 MI. CONTINUED FROM SHEET #1

KOHALA MOUNTAIN ROAD — HAWI ROAD

Culvert; Culvert Ranch Road; Driveway 2500'/762m Elev. Signs; 12.472 mi.; Culvert; Ranch Road; Pu'uhue Rd. 2000'/610m Elev. Signs (L&R); Rd. to FAA Station; Ka'auhuhu Homestead Rd.; 16.739 mi.; Bears Road (L) Hi Road (R) 1500'/457m Elev. Signs; Pu'u Manna Drive Kam. Preschool; Kalnoa Road; Elt. Substation; Kynnersly Rd.; angle point; Red Cinder Rd.; Future Development Ka'auhuhu Road Hook Rd.; Kuripuaiani Pl.; Banana Ranch Rd.

MP 13 21 km; MP 14; MP 15; MP 16; MP 17; MP 18 29 km; MP 19; MP 20; MP 21; 21.84 MP

10.489 mi. 10.433 mi. 11.434 mi. 11.792 mi. 11.669 mi. 12.471 mi. 12.441 mi. 12.631 mi. 12.919 mi. 12.819 mi. 13.436 mi. 14.575 mi. 14.471 mi. 14.431 mi. 15.442 mi. 16.170 mi. 16.506 mi. 16.433 mi. 16.894 mi. 16.828 mi. 16.822 mi. 16.741 mi. 17.071 mi. 17.435 mi. 17.371 mi. 17.315 mi. 17.280 mi. 17.703 mi. 18.594 mi. 18.535 mi. 18.525 mi. 18.434 mi. 18.858 mi. 19.271 mi. 19.158 mi.

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH "IS VIDEOLOG & "IS FEATURES" DATABASE. END ROUTE 250 ON HAWI ROAD AT THE SOUTH EDGE OF PAVEMENT OF AKONI PULE HWY. (RTE 270) *19.276 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided

- Shoulder: Width and Type: 2' AC/ 6' Grs.; 1' AC / 4' Grs.; 1' AC / 2' Grs.; 2' AC / 2' Grs.; 1' AC / 2' Grs.; 2' AC / 4' Grs.; 2' AC / 6' Grs.; 0; 6' AC
- Pavement: Width and Type: 20' AC; 22' AC; 20' AC
- Shoulder: Width and Type: 2' AC / 2' Grs.; 6' Grs.; 4' Grs.; 2' AC / 4' Grs.; 2' AC/ 10' Grs.; 2' Grass; 4' AC; (15'–20' 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'; 2–10'

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

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: Rural (99999)

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

Speed: 1–Design, 2–Posted: 40 MPH (2); 35 MPH (2); 40 MPH (2); 35 MPH (2); 40 MPH (2); 35 MPH (2); 25 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year): B71 0250 00022; B71 0250 01736; B71 0250 01855

HPMS Sections – AADT 2016: 2,400; 1,500; 2,700

HPMS Sections – AADT 2015: 2,300; 1,448; 2,500

HPMS Sections – AADT 2014: 3,100; 2,500; 1,400; 2,400

DOD Sections

Census Tracts

Functional Classification: Major Collector (5)

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

Previous Projects: Project No., Date and Limits

250–01–86M, (Resurface) 1986; 250A–01–89M (R) 1989; 250A–01–86M, 1986 (R); S239(1), 1956; 250A–01–74, 1974; S–239(1), 1954; 250A–01–72, 1972 County; 250A–01–73 1973; 250A–03–72 (R) 1972

SCALE: (In Miles) 2" = 1 mile

Date Released	
Nov. 2003	D.B.

Revised	
7/06	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
2/13	E.P.J.
12/13	E.P.J.
8/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

ROAD INVENTORY

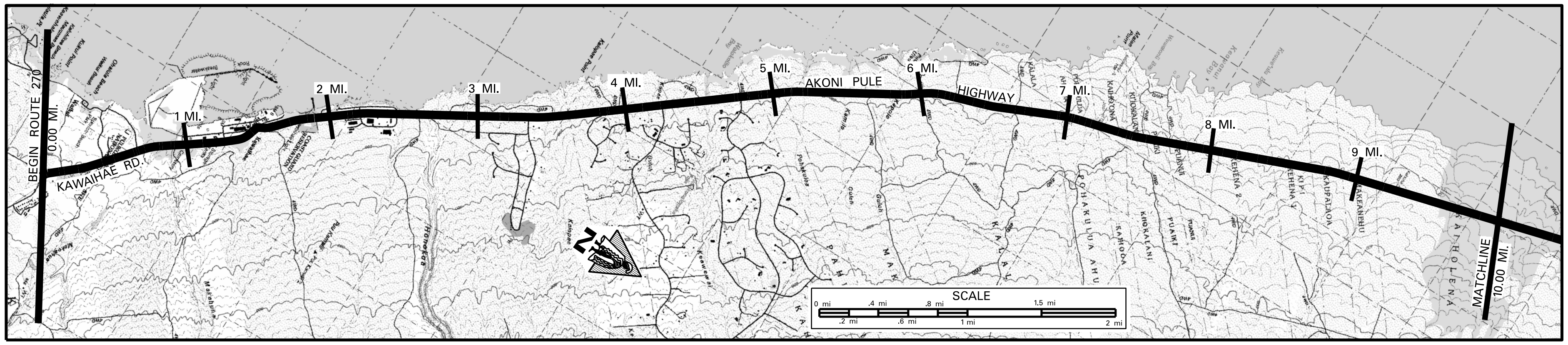
HAWAII RTE 270
KAWAIHAE ROAD–AKONI PULE HWY

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

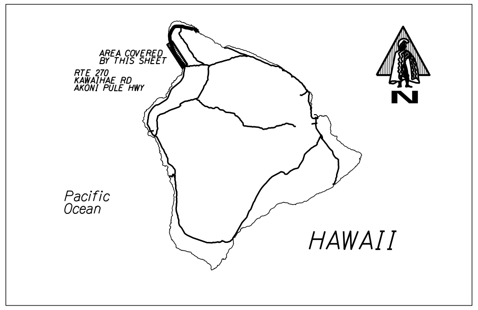
PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 27.003 miles
a. Survey Length: 27.003 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles
*



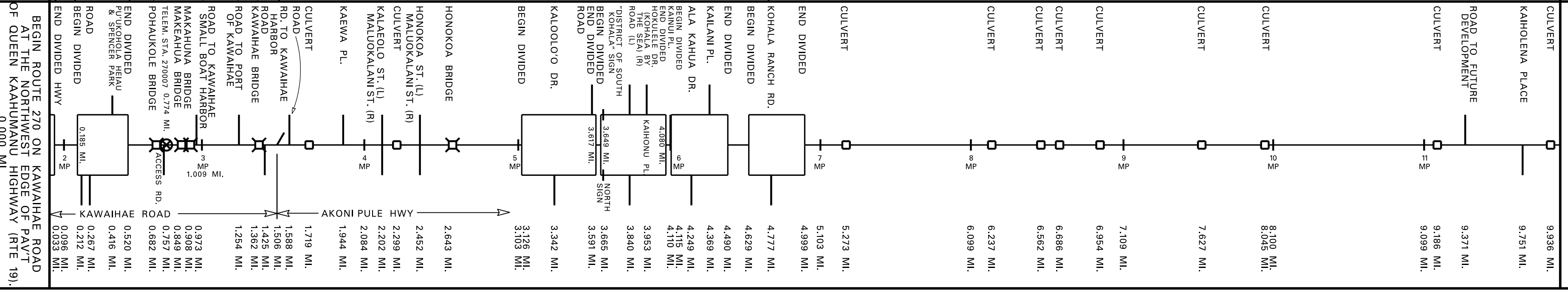
SCALE: (In Miles) 2" = 1 mile	0 · 1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10
Maintenance Control Sections : Length and Description	BEGIN 27A SAME AS BEGIN RTE 270 · 27 A (1.50 MI.) · 1.50 · END 27A – BEGIN 270A AT CENTERLINE ROAD TO KAWAIHAE WHARF. · 270A (11.44 MI.)
Structure Carrying Road – Bridges (Over 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'
Structure Carrying Road – Vertical Clearance	0.85 · 0.91 · 1.36 · 2.64
Structure Carrying Road – Horizontal Clearance	28' · 40' · 40' · 28'
Structure Over Road – Vertical Clearance	
Structure Over Road – Horizontal Clearance	
Right of Way Width (min.–max.) if varies	60' – 80' · 60' · 1.92 · 80' – 180'
Available Right of Way Width (Needs Study)	BRUSH & TREES · 1.33 · RES. AREA · 1.52 · BRUSH & TREES · 4.73 · RES. AREA · 4.99 · CLEAR 1000' BUSHES & SMALL TREES (SOME CUT SLOPES)
Right of Way Fence: Type – Right and Left	(CHAINLINK 10' FROM E.P.) · 1.24 · 1.33 · (STONE WALL 10' FROM E.P.) · (STONE WALL 10' FROM PAVMT.) · 3.40 · 3.67 · (CHAINLINK 10' FROM PAVMT.) · 4.65 · 4.80 · (STONE WALL)
Control of Access: 1–None, 2–Partial, 3–Full	61+52 · 56+00 · NONE · 4.73
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)	87+50 · 81+28 · 47+00 · STATE · (COUNTY TO STATE, PHASE 2) · 9.89
Project No., Type of Construction, and Year Constructed	(NH–019–1(29), GUARDRAIL & SHLDR. IMPR., 2006) · 0.04 · 0.18 · FLH–0270(16) INTER. IMP. 2006 · 0.54 · 0.65 · 0.82 · (FLH–0270(17), INTER. IMP., 2006) · 5.01 · STP–0270(019), PAVEMENT PREVENTIVE MAINTENANCE, 2013
Project No., Type of Construction, and Year Constructed	(19CD–01–97M, RESURF., 1999) · 0.04 · .17 · STP–0270(13), SHLDR. IMPRV. 1998 · 0.53 · 270A–01–99M, RESURF., 2001 · (270A–01–99M, RESURF., 2001) · 1.52 · 270A–01–96M, (R), 1997 · 4.76 · HWY–H–02–15M, 2017



▨ Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP=Milepost Signage



CONTINUED ON SHEET #2
10.000 MI.

SCALE: (In Miles) 2" = 1 mile	0 · 1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10
Divided Highway – Undivided – Shoulder: Width and Type	7' AC · 0.17 · 6' AC · 7' AC · 1.51 · 5' CORAL · 1.91 · 6' SEAL COAT · 12' AC · 6' SEAL COAT · 4.76 · 6' AC · 9.51 · 6' SEAL COAT
Divided Highway – Undivided – Pavement: Width and Type	(11' AC) · 22' AC · 11' AC · 22' AC · 1.52 · 22' BP · 24' AC · 14' AC · (24' AC) 12' AC · 12' AC · 24' AC · 12' AC · 24' AC
Divided Highway – Undivided – Shoulder: Width and Type	(0) · 7' AC · 0 · 7' AC · 1.51 · 5' CORAL · 6' SEAL COAT · 0 · (6' SEAL COAT) 0 · 0 · 6' SEAL COAT · 0 · 6' AC · 9.51 · 6' SEAL COAT
Median: Width and Type Median Barriers:	(0'–9' PAINTED AC) · .033 · .185 · 0'–10' PAINTED AC · .520 · .126 · 0'–16' PAINTED AC · .617 · .649 · 0'–15' PAINT · .080 · .115 · 0'–11' PAINT · .490 · .629 · 0'–10' PAINT · .999
Shoulder: Width and Type	(0) · 0 · 0 · 0 · 0 · 0
Pavement: Width and Type	(11' AC) · 11' AC · 14' AC · 12' AC · 12' AC · 12' AC
Shoulder: Width and Type	(6' AC) · 6' AC · 10' AC · 6' SEAL COAT · 6' SEAL COAT · 4.76 · 6' AC
Number of Traffic Lanes	2–11' · 1.91 · (6' SEAL COAT) · .933 · 2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	.299 · 11' LNS. · .463 · .840 · .933 · .947 · 10' T.L. · .249 · .359 · .744 · .777 · .915
(Right Side)	.273 · 1–10' (L) TL · .416 · .231 · .342 · .724 · 12' T.Ls. · .150 · .249 · .358 · .681 · .777 · .819 · 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)	METAL RAILS ON CONCRETE POSTS
Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise.	.071 · .187 · .231 · .342 · .425 · .520 · .664 · .741 · .831 · .085 · .177 · .500 · .677 · .854 · .964 · .096 · .209 · .409 · .458 · .749 · .919 · .040 · .083 · .128 · .165 · .417 · .490 · .691 · .961 · .007 · .055 · .105 · .159 · .052 · .123 · .150 · .199 · .232 · .318 · .363 · .478 · .492 · .832 · .861 · .015 · .068 · .229 · .244 · .425 · .468 · .478 · .492 · .589 · .618 · .743 · .777 · .994 · .011 · .059 · .142 · .334 · .428 · .716 · .778 · .903 · .941 · .987 · .022 · .612 · .692 · .727 · .761 · .873 · .939 · .385 · .400 · .560 · .568 · .700 · .715 .604 · .640 · .226 · .312 .186 · .227 · .270 · .437 · .518 · .639 · .707 · .822 · .918 · .978 · .009 · .054 · .073 · .358 · .378 · .698 · .753 · .776 · .821 · .972 · .036 · .465 · .517 · .602 · .747 · .920 · .023 · .088 · .265 · .478 · .589 · .640 · .672 · .693 · .793 · .808 · .828 · .928 · .977 · .048 · .058 · .176 · .244 · .365 · .385 · .499 · .556 · .667 · .759 · .807 · .846 · .895 · .052 · .131 · .142 · .204 · .228 · .831 · .850 · .006 · .032 · .432 · .466 · .759 · .766 · .000 · .007 · .108 · .141 · .343 · .353 · .928 · .937 · .610 · .653 · .377 · .386 · .689 · .702
Illumination: Type, Location and Number	11 LPS · 4MV · 1.51 · 1MV · 1 MV
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)	(D) · 0.05 · 0.32 · 0.50 · A · .168 · .213 · 1.29 · 1.34 · CA · 1.49 · FB · 1.62 · 2.18 · A
Superelevation (Range)	6.27 · +1 · 6.43 · 6.52 · +2 · 6.92
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)	D · 0.10 · C · 0.29 · D · 0.84 · B · 1.08 · A · 1.53 · C · B · 1.74 · A · 1.92 · B · 2.31 · A · 2.41 · B · 3.46 · C · 3.63 · B · 3.90 · C · 4.04 · B · A · 4.22 · B · 4.79 · D · 5.04 · B · 5.37 · C · 5.51 · B · 7.47 · A · 7.67 · B · 8.20 · A · 8.44 · B · 8.82 · A · B · 9.03 · A · 9.20 · B · 9.74 · C · 9.83 · B
Vertical Curve: Crest or Sag, Curve Limits	1.63 · 4.14 · 8.92
Area and Development:	SMALL URBAN (99998) · 1.50 · RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	ROLLING (2) · 0.81 · FLAT (1) · 1.50 · ROLLING (2)
Speed: 1–Design, 2–Posted	0.04 · 35 MPH (2) · .366 · .620 · (30 MPH (2)) · 35 MPH (2) · .498 · (45 MPH (2)) · .691 · .497 · 55 MPH (2) (40 MIN (2))
Intersection Control Devices: Type, Location and Cycle Timing	
Traffic Stations (Current Year)	B71 0270 00000 · B71 0270 00150 · B71 0270 00244
HPMS Sections – AADT 2016	7,500 · 5,100 · 2.44 · 3,100
HPMS Sections – AADT 2015	7,400 · 1.50 · 5,790
HPMS Sections – AADT 2014	7,300 · 5,600
DOD Sections	
Census Tracts	
Functional Classification	PRINCIPAL ARTERIAL (3) · 1.36 · MINOR ARTERIAL (4)
National Highway System (NHS)	ON NHS (1) · 2.44 · 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 · 4.76 · STP–0270(13), 1998, (SHLDR. IMPRV.) · 9.51 · 270A–01–83M, 1983, (R)
	STP–0270(13), SHLDR. IMPRV. 1998 · 1.51 · 270A–01–96M, 1997, (R) · 5.00
	27A–01–88M, 1988, (R) · 270A–01–83M, RESURF. 1983
	WDRC–12(1), 1947 · 0.64 · 0.79 · 270A–01–72, 1972, (R) · WDRC 12(1), 1947 · 270A–01–79, SHLDR. STAB. 1980
	FAP 11 B, 1933 · 0.70 · S–0260(1), 1959 · 1.50 · FAP 110, 1937 · 1.91 · A270–01–62, 1967, 68
	0+00 · 22+00 · 603+54.46
	(HHS–027–1(1), SAFETY IMPRV.)
SCALE: (In Miles) 2" = 1 mile	0 · 1 · 2 · 3 · 4 · 5 · 6 · 7 · 8 · 9 · 10

Date Released	
SEPT 05, D.B.	
Revised	
7/06	D.B.
1/07	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
8/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

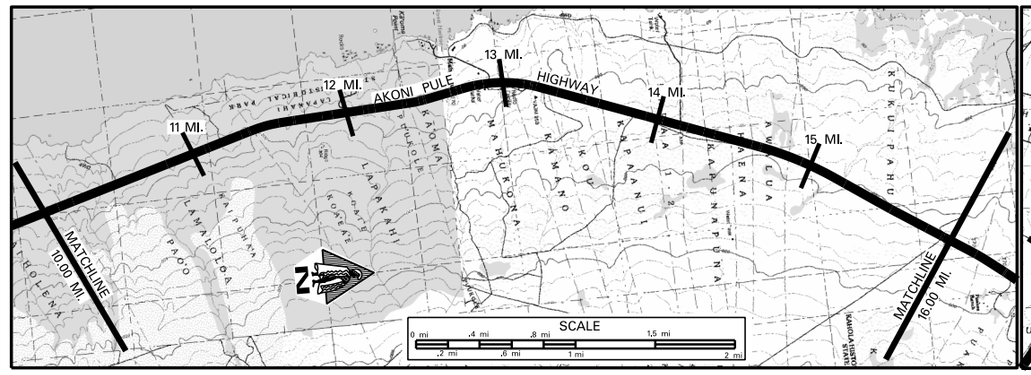
ROAD INVENTORY
HAWAII RTE 270
AKONI PULE HIGHWAY

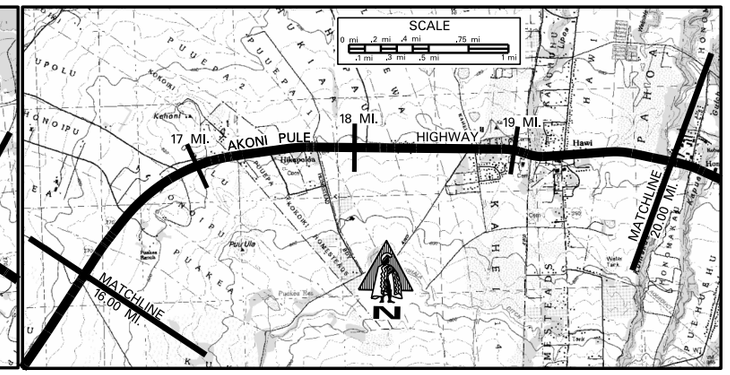
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 27.003 miles
a. Survey Length: 27.003 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles
*

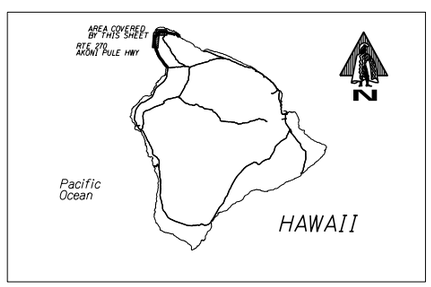




SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description: 270A (11.44 MI.) | END 270A – BEGIN 270B AT THE CENTERLINE OF ACCESS RD. TO MAHUKONA WHARF. | 270 B (14.10 MI.)

Structure Carrying Road	Bridges (Over 20'): Length, Type, Capacity and Year Constructed
	Vertical Clearance
	Horizontal Clearance
Structure Over Road	Vertical Clearance
	Horizontal Clearance
Right of Way Width (min.–max.) If varies	80'–180' (10.34); 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 (18.69); 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 (14.23); STATE (18.18); COUNTY TO STATE PHASE 2
Project No., Type of Construction, and Year Constructed	STP–0270(019), PAVEMENT PREVENTIVE MAINTENANCE, 2013 (12.92); STP–0272(020), RESURFACE, 2013 (17.75)
Project No., Type of Construction, and Year Constructed	HWY–H–02–15M, 2017 (13.26); 270B–01–69M, RESURFACE, 1997 (19.31); HWY–H–02–15M, 2017



Indicates Grass & / or Physical Barrier on Median.

Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET #1 — 10.000 MI.

MP	Feature	Location
12 MP	CULVERT	10.150 MI. 10.395 MI.
	CULVERT	10.365 MI.
	CULVERT	10.646 MI.
13 MP 21 km	CONCRETE DRIVEWAY	10.943 MI.
	CULVERT	11.076 MI.
	CULVERT	11.889 MI.
14 MP	LAPAKAHI HISTORIC STATE PARK	12.096 MI. 12.029 MI.
15 MP	ACCESS ROAD TO MAHUKONA WHARF	12.921 MI.
	CULVERT	13.094 MI.
	CULVERT TWIN CULVERT	13.536 MI. 13.445 MI.
	PAVED ROAD	13.784 MI.
16 MP	KAPAA PARK ROAD (L&R)	(R) 14.152 MI. (L) 14.146 MI. 14.096 MI.
	AKONI PULE HIGHWAY	
		15.114 MI.
18 MP 29 km	PUALANI RD. (L) PU'UHUE–HONOPU RD (R)	15.948 MI.
		16.079 MI.
	T.C. BAY DR. (L) PAVED ROAD (R) (DRIVEWAY)	16.466 MI. 16.460 MI.
19 MP	PAVED RD. (R) OLD COAST GUARD RD. (L)	16.879 MI.
		17.076 MI.
	ILIKINI RD. (L) KOONAU RD. (R) SMITH RD. (R)	17.299 MI.
		17.467 MI.
	LINCOLN AVE	17.758 MI.
20 MP	UPOLU AIRPORT RD.	18.098 MI. 18.074 MI.
	HUALUA ROAD MALIU RD.	18.752 MI. 18.725 MI.
		18.964 MI.
MP 18.101 MI.	ILINA RD.	19.178 MI.
	KAHEI RD.	19.123 MI.
	HUA LN. HO'EA RD.	19.090 MI.
	HAWI RD. (R) & (L)	19.322 MI. 19.309 MI.
	WATER SUPPLY RD. SUBSTATION WAIPELE ST.	19.604 MI. 19.581 MI.
	KUMAKUA ST.	19.808 MI.

CONTINUED ON SHEET #3 — 20.000 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway – Undivided: Shoulder: Width and Type	6' SEAL COAT (13.34); 10' GRAVEL (17.75); 10' GRASS (18.38); (18.47) 10' GRASS (18.74); 0 (19.01); 8' BP
Pavement: Width and Type	24' AC; 24' AC
Shoulder: Width and Type	6' SEAL COAT; 10' GRAVEL; 10' GRASS; 8' GRASS (18.83); 0 (19.22); 8' GRASS
Median: Width and Type	(6' GRASS); (3' GRASS)
Median Barriers:	
Shoulder: Width and Type	
Pavement: Width and Type	
Shoulder: Width and Type	
Number of Traffic Lanes	2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	(2–14') (19.14); 2–13 (19.24); (19.36) 2–12'
(Right Side)	(18.74) PARK (18.86); PARK
Frontage Road: No. of Lanes, and Width (Right and Left)	
Sidewalk: Width and Type (Right and Left)	4' (19.40); 6' BP S.W. (19.59)
Curb and/or Gutter: Type (Right and Left)	(CURB (L & R)) (18.29)
Protective Devices: Type, Location and Number	All Metal Rails on Metal Posts unless noted otherwise. M/C = Metal Rails on Concrete Posts. METAL RAILS ON CONC. POSTS; METAL RAILS ON CONC. POSTS; M/C
Illumination: Type, Location and Number	1 M.V. (17.99); M.V. (18.23)
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(< 28.62)	A; B (19.10); A
Superelevation (Range)	
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(< 8.45)	B A B A B A B A C A C B C B C B A B A B C B A B C B C A
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	ROLLING (2)
Speed: 1–Design, 2–Posted	55 MPH (2) (MIN. 40 MPH (2)); 45 MPH (2); 35 MPH (2); 25 MPH (2); 25 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	
Traffic Stations (Current Year)	B71 0270 00244; B71 0270 01810; B71 0270 01932
HPMS Sections – AADT 2016	3,100; 4,800; 5,700
HPMS Sections – AADT 2015	5,790; 4,800; 6,100
HPMS Sections – AADT 2014	5,600; 4,400; 6,400
DOD Sections	
Census Tracts	
Functional Classification	MINOR ARTERIAL (4); MAJOR COLLECTOR (5)
National Highway System (NHS)	NOT ON NHS (0)
Previous Projects: Project No., Date and Limits	270A–01–83M, RESURFACE, 1988 (13.26); 270A–01–79 SHLDR, STAB, 1980; A–270–01–62 1967, 68; S–0270(7) 1972, 73; S–0270(3), 1972; RS–STP–0270(11), RESURFACE, 1996; S–203(2), 1951

SCALE: (In Miles) 2" = 1 mile

Date Released	
SEPT 05,	D.B.
Revised	
7/06	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
6/13	E.P.J.
8/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

ROAD INVENTORY
HAWAII RTE 270
AKONI PULE HWY.

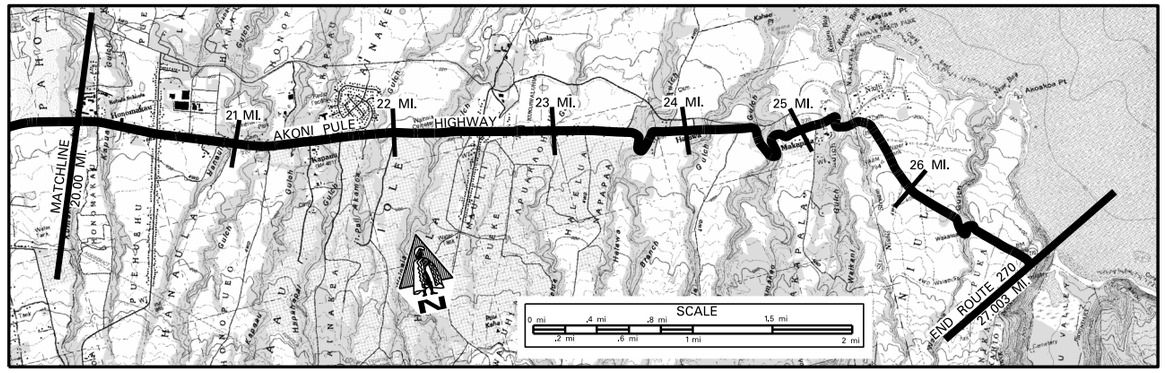
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 27.003 miles
- **a. Survey Length:** 27.003 miles
- **b. Proposed Length:** 0.00 miles
- **c. Other Length: *** 0.00 miles

*



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description
270 B (14.10 MI.) — END 270 B SAME AS END RTE 270

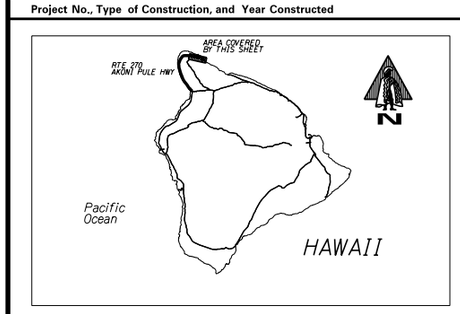
Structure Carrying Road

Bridges (Over 20'): Length, Type, Capacity and Year Constructed	TWIN ARCH CULVERTS 1980; TEE BEAM 1919, ES–H10; TEE BEAM 1918, ES–H10; TEE BEAM 1918, ES–H10
Vertical Clearance	26' (23.42); 160' (24.15); 80' (24.40); 22' 33' (25.26 25.36)
Horizontal Clearance	36'; 18'; 18'; 18' 18'

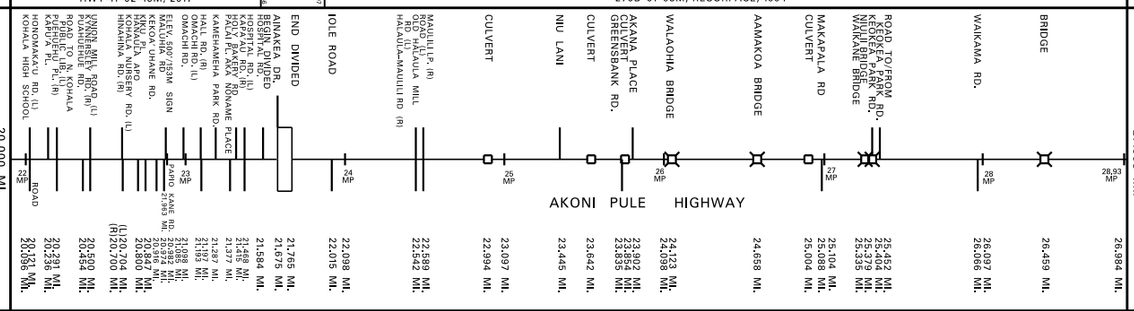
Structure Over Road

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. (20.12); RESIDENTIAL AREA (21.42); 1000' CLEAR, BRUSH & GRASS 30' FROM EDGE OF PAVEMENT (22.18); RESIDENTIAL DISTRICT
Right of Way Fence: Type – Right and Left	WIRE ON WOOD 50' FROM E.P.; WIRE ON WOOD 50' FROM E.P. (20.84)
Control of Access: 1–None, 2–Partial, 3–Full	NONE
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)	STATE
Project No., Type of Construction, and Year Constructed	STP–0270(020), RESURFACE, 2013 (20.56–22.56); (BR–0270(18), MAJOR SEISMIC RETROFIT, 2009) (24.18–24.42); (BR–0270(18), MAJOR SEISMIC RETROFIT, 2009) (24.71–25.00)
Project No., Type of Construction, and Year Constructed	HWY–H–02–15M, 2017 (20.97); 270B–01–93M, RESURFACE, 1994



Road Diagram
* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway — Undivided

Shoulder: Width and Type	8' BP; 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; 24' AC; 20' AC
Shoulder: Width and Type	GRS; 10' GRASS; 3' CRT; 6' GRASS; 8' GRS; 6' GRS; 0; 6' GRASS; 8' GRASS; 8' BP; 6' GRASS; 3' GRS.; 4' GRS.; 6' GRS.; 0; 5' GRS.; 4' GRS.; 0; 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' GRASS

Number of Traffic Lanes	2–12'; 2–12'; 2–11'; 2–10'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	(1–12' PARK); 11' TLs; 12' PARK
(Right Side)	
Frontage Road: No. of Lanes, and Width (Right and Left)	
Sidewalk: Width and Type (Right and Left)	6' BP SIDEWALK; 6' BP SIDEWALK
Curb and/or Gutter: Type (Right and Left)	CURB; CURB; CURB
Protective Devices: Type, Location and Number	All Metal Rails on Metal Posts unless noted otherwise.
Illumination: Type, Location and Number	MV; MV
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)	AB; A; EA; FA; DE; CB; A; BA; E; B; AE; FB; AC; CA; FB; DAD; A; BAC; A; E; FE; A; DD
Superelevation (Range)	
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)	A; B; b; B; C; B; C; B; D; B; D; C; B; D; C; B; D; B; C; B; D; B; (E)
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	RURAL (99999)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	ROLLING (2)
Speed: 1–Design, 2–Posted	35 MPH (2); 25 MPH (2); 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	
Traffic Stations (Current Year)	B71 0270 01932; B71 0270 02159; B71 0270 02254; B71 0270 02540
HPMS Sections – AADT 2016	5,700; 3,500; 1,300; 570
HPMS Sections – AADT 2015	6,100; 3,000; 980; 490
HPMS Sections – AADT 2014	6,400; 5,000; 1,100; 640
DOD Sections	
Census Tracts	
Functional Classification	MAJOR COLLECTOR (5)
National Highway System (NHS)	NOT NHS (0)
Previous Projects: Project No., Date and Limits	
	RS-STP-0270(111), RESURFACE, 1996 (21.97–21.59); 270B–01–77M, (R), 1977; (270B–01–77M, (R), 1977); 270B–01–77M, (R), 1977 (24.28–24.44); 270B–01–77M, (R), 1977 (25.18–25.78); FAS–G–3260–01–60, 1961; COUNTY; (HWY–H–02–70(X), (REHAB & RESURFACE), 1971); (HWY–H–02–70(X), (REHAB & RESURFACE), 1971)

SCALE: (In Miles) 2" = 1 mile

Date Released
SEPT. 05, D.B.

Revised	
7/06	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
8/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

ROAD INVENTORY
HAWAII RTE 1370
KALANIANAOLE STREET

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

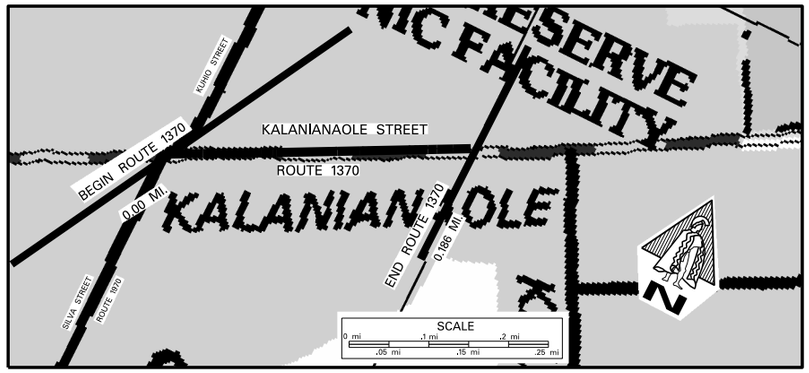
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 0.186 **miles**

a. Survey Length: 0.186 **miles**

b. Proposed Length: 0.00 **miles**

c. Other Length: 0.00 **miles**



SCALE: (In Miles) 20" = 1 mile

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 — (Chain)link 10' from E,P,)
Chain)link 50' from E,P,

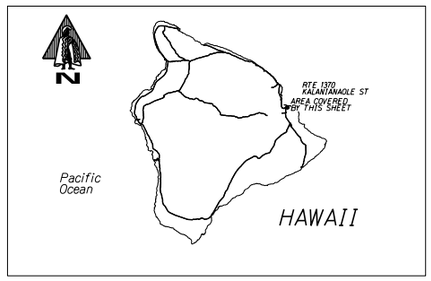
Control of Access: 1–None, 2–Partial, 3–Full

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

STATE

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed



Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP=Milepost Signage

BEGIN ROUTE 1370 0.00 MI.
AT THE EAST EDGE OF PAVEMENT OF KUHIO STREET AND KALANIANAOLE STREET.

Spur — Begin Divided

KALANIANAOLE STREET

0.008 mi. — 0.112 mi.

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

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH 'I5 VIDEOLOG & 'I5 FEATURES' DATABASE.

SCALE: (In Miles) 20" = 1 mile

0.0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00

Divided Highway — Undivided

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

Divided Highway — Median

- Median: Width and Type — .112 | 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) — 0.129 — 9' T.L.

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

Sidewalk: Width and Type (Right and Left) — 0.129 — 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

Illumination: Type, Location and Number — 1 Luminaire 0.10

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: — Small Urban (99998)

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

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

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year) — B71 1370 00000

HPMS Sections – AADT 2016 — 11,600

HPMS Sections – AADT 2015 — 9,200

HPMS Sections – AADT 2014 — 0.00 — 10,300 — 0.186

DOD Sections

Census Tracts

Functional Classification — Principal Arterial (3)

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

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 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.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
8/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

ROAD INVENTORY
HAWAII RTE 1970
KAMEHAMEHA AVE., SILVA ST.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

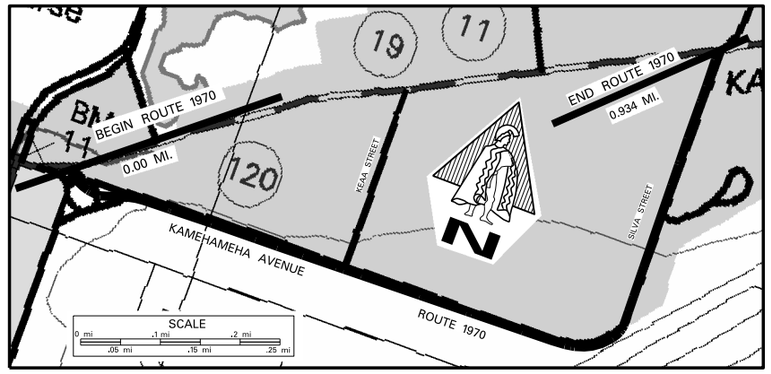
Total Route Length: 0.934 **miles**

a. Survey Length: 0.934 **miles**

b. Proposed Length: 0.00 **miles**

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

*



SCALE: (In Miles) 20" = 1 mile

0.0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00

Maintenance Control Sections : Length and Description

Structure Carrying Road

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

Vertical Clearance

Horizontal Clearance

Structure Over Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.–max.) If varies

Available Right of Way Width (Needs Study)

Right of Way Fence: Type – Right and Left

0.13 — Chain Link Fence, 10'–20' from Edge of Pavement — 0.96

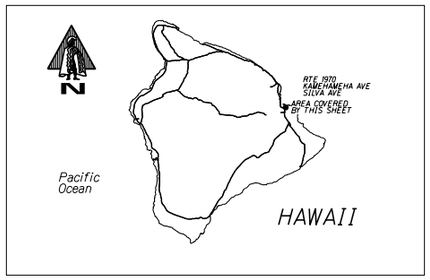
Control of Access: 1–None, 2–Partial, 3–Full

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

STATE

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed



Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP=Milepost Signage

BEGIN ROUTE 1970 AT THE SOUTHEAST EDGE OF PAVEMENT OF TRAFFIC CIRCLE ON KAMEHAMEHA AVENUE — 0.000 MI.

End Divided — Driveway — Keaa Street — Paved Roads — Paved Road

KAMEHAMEHA AVENUE — SILVA STREET

0.104 mi. — 0.240 mi. — 0.331 mi. — 0.509 mi. — 0.586 mi. — 0.759 mi.

END ROUTE 1970 ON SILVA STREET AT THE SOUTH EDGE OF PAVEMENT OF KALANIANAOLE STREET ACROSS HILO HARBOR ENTRANCE. — 0.934 MI.*

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

SCALE: (In Miles) 20" = 1 mile

0.0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00

Divided Highway — Undivided

Shoulder: Width and Type — 2' AC (0.06) 2' AC / 6' Grass (0.12) 10' AC (0.20) 2' AC / 10' Grass (0.78) 10' AC

Pavement: Width and Type — 10' AC — 20' AC

Shoulder: Width and Type — 0 — 10' Grass (0.56) 3' AC (0.69) 10' AC

Divided Highway — Median

Median: Width and Type — 50' Raised Grass (.104)

Shoulder: Width and Type — 0

Pavement: Width and Type — 10' AC

Shoulder: Width and Type — 0 (0.06) 10' Grass

Number of Traffic Lanes — (0.02) 2–10'

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side) — (0.06)

(Right Side)

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

Sidewalk: Width and Type (Right and Left)

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

Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise. — (.597') (.649')

Illumination: Type, Location and Number — (0.66) 4 Luminaires

Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62) — F (0.08) E (0.12) A (0.56) E (0.66) AB

Superelevation (Range)

Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45) — B (0.10) A (0.89) B

Vertical Curve: Crest or Sag, Curve Limits

Area and Development: — Small Urban (99998)

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

Speed: 1–Design, 2–Posted — 35 MPH (2) Not Posted (.117) — 35 MPH (2) — 25 MPH (2) 35 MPH (2) (.649) — 25 MPH (2)

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year) — B71 1970 00000

HPMS Sections – AADT 2016 — 850

HPMS Sections – AADT 2015 — 730

HPMS Sections – AADT 2014 — (0.56) 950

DOD Sections

Census Tracts

Functional Classification — Principal Arterial (3)

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

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 20" = 1 mile

0.0 | 0.10 | 0.20 | 0.30 | 0.40 | 0.50 | 0.60 | 0.70 | 0.80 | 0.90 | 1.00

Date Released	
MAR. 05, D.B.	
Revised	
May 06	G.N.
9/10	G.N.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
8/14	D.B.
1/16	E.P.J.
1/17	E.P.J.
2/18	D.B.

ROAD INVENTORY
HAWAII RTE 2000
PUAINAKO ST., PUAINAKO ST. EXTENSION

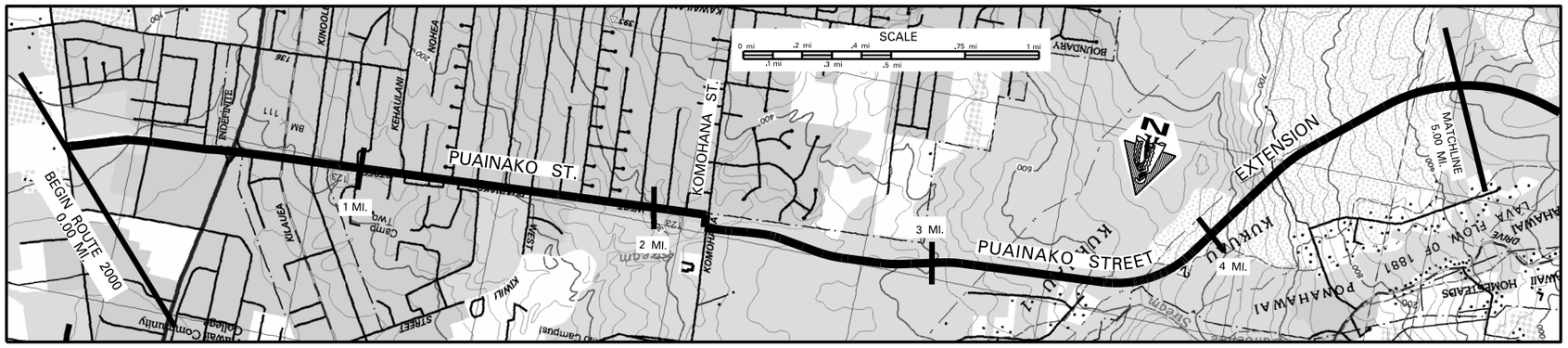
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

Total Route Length: 6.873 miles
- **a. Survey Length:** 6.873 miles
- **b. Proposed Length:** 0.00 miles
- **c. Other Length: *** 0.00 miles

*



SCALE: (In Miles) 4" = 1 mile

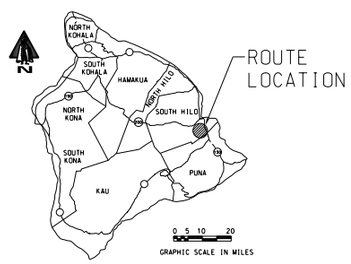
Maintenance Control Sections : Length and Description

Begin 2000E @ ℄ of Kanoelehua Ave. — 2000 E (1.62 MI.) — End 2000E @ ℄ of Kamohana St.

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

Structure Over Road
- Vertical Clearance
- Horizontal Clearance

Right of Way Width (min.–max.) If varies	Varies 50'–80' / 120'
Available Right of Way Width (Needs Study)	Rock Walls & Chain Link; Residential Area
Right of Way Fence: Type – Right and Left	Chain Link; Chain Link; Chain Link; Rock Walls & Chain Link; Various
Control of Access: 1–None, 2–Partial, 3–Full	None / Partial
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)	State / State
Project No., Type of Construction, and Year Constructed	(2000E-01-00, Imprvts, 2004)
Project No., Type of Construction, and Year Constructed	(200E-01-7M, (R) 1977) — 200E-01-90M (R), 1991 — County Project STP-2000(4), New Construction 2004



Indicates Grass & / or Physical Barrier on Median.

Road Diagram

* MP = Milepost Signage

BEGIN ROUTE 2000 ON PUAINAKO STREET AT THE WEST EDGE OF PAVEMENT OF RAILROAD AVENUE. 0.00 mi.

Ohuohu St. 0.281 mi. — Shopping Center (L) 0.380 mi. — Shopping Center (R) 0.462 mi. — Begin Divided 0.503 mi. — End Divided 0.525 mi. — Begin Divided 0.583 mi. — End Divided 0.631 mi. — Kekela St. 0.659 mi. — Begin Divided 0.683 mi. — End Divided Hwy 0.733 mi. — Kilauea Ave & Kanoelehua Ave 0.834 mi. — Kinoole St. 0.932 mi. — Makai St. 0.991 mi. — Lokahi St. (R) 1.028 mi. — Santos Ln. (L) 1.107 mi. — Pamala Pl. 1.142 mi. — Entrance to Elem. Sch. 1.151 mi. — Kehaulani St. 1.239 mi. — Exit to Elem. Sch. 1.285 mi. — Nohea St. 1.312 mi. — Roads to Inter. Sch. 1.335 mi. — Naniakea Street 1.396 mi. — Roads to Inter. Sch. 1.490 mi. — Anela St. 1.548 mi. — Kanoelani St. 1.580 mi. — Iwalani St. (L) 1.673 mi. — Kawili St. (R) 1.749 mi. — Kuhihani St. 1.845 mi. — Wahonika St. 1.953 mi. — Kapuulani St. 2.040 mi. — Melani St. 2.175 mi. — Kamohana St. 2.231 mi. — Puainako St. Extension 2.398 mi. — End Divided 2.723 mi. — Road 3.128 mi. — Begin Divided 3.409 mi. — Kukuau St. 3.533 mi. — End Divided 3.722 mi. — Road 4.333 mi. — Road 4.599 mi. — 4.724 mi.

PUAINAKO ST. — KOMOHANA ST. — PUAINAKO STREET EXTENSION

0.257 mi. — 0.659 mi. — 2.200 mi.

1 MP — 2 MP — 3 MP — 4 MP

CONTINUED ON SHEET 2. 5.00 mi.

SCALE: (In Miles) 4" = 1 mile

Divided Highway

Undivided: Shoulder: Width and Type	0 / 6'–8' AC (12' AC) / 4'–8' AC (36' AC) / 2'–4' AC / 9' AC
Undivided: Pavement: Width and Type	28' AC / 12' AC / 36' AC / 24' AC / 20' AC / 22' AC / 12' AC / 24' AC / 12' AC / 24' AC
Undivided: Shoulder: Width and Type	0 / (11' Raised Conc.) / 4'–8' AC / 0 / 0 / 0 / 9' AC / 0 / 9' AC
Divided: Median: Width and Type	42' Raised Grass / 12' Painted AC (6' Painted AC) / (26' Raised Grass) (12'–26' Painted AC) / (24' Raised Grass + 12' Painted AC) / 36'– 0 Painted AC / 24'– 0 Painted AC
Divided: Median Barriers:	
Divided: Shoulder: Width and Type	0 (24' AC) / 0 (24' AC) / 0 / 0
Divided: Pavement: Width and Type	28' AC / 12' AC / 24' AC / 12' AC / 12' AC
Divided: Shoulder: Width and Type	0 (8' AC) / 8' AC / 9' AC / 9' AC

Number of Traffic Lanes	4–14' / 2–12' / 1–12' / 2–12' / 2–10' / 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)	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	All Metal Rails on Metal Posts unless noted otherwise.
Illumination: Type, Location and Number	7 Sodium Vapor / 8 M.V., 5 Incandescent
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)	A / B / A / D C / A / D C / AB / A / F / A
Superelevation (Range)	
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)	B / A / B / C / D / C / D / B / C / B / C / B / C / D / F / E / D
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	Small Urban (99998)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	Rolling (2)
Speed: 1–Design, 2–Posted	30 MPH (2) / 35 MPH (2) / 30 MPH (2) / 35 MPH (2) / 45 MPH / 55 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	4 Phase / 2 Phase
Traffic Stations (Current Year)	B71 2000 00000 / B71 2000 00028 / B71 2000 00056 / (B71 2000 00073) / B71 2000 00083 / B71 2000 00158 / B71 2000 00218
HPMS Sections – AADT 2016	3,700 / 13,600 / 17,400 / 11,700 / 9,900 / 10,000 / 6,600
HPMS Sections – AADT 2015	2,600 / 8,800 / 15,100 / 12,201 / 8,500 / 8,400 / 6,000
HPMS Sections – AADT 2014	4,100 / 9,000 / 16,200 / 11,800 / 10,400 / 9,900 / 5,600
DOD Sections	
Census Tracts	
Functional Classification	Major Collector (5)
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) — G-3221-01-62, 1962

SCALE: (In Miles) 4" = 1 mile

Date Released	
Dec. 2003, DB	
Revised	
Apr. 04	D.B.
July 04	D.B.
Sept 04	D.B.
May 06	G.N.
Sept 10	D.B.
Feb. 11	D.B.
Feb. 12	D.B.
Sept. 12	E.P.J.
Dec. 13	E.P.J.
Aug. 14	D.B.
1/16	E.P.J.
1/17	E.P.J.
Feb. 18	D.B.

ROAD INVENTORY

HAWAII RTE 2000
PUAINAKO STREET EXTENSION

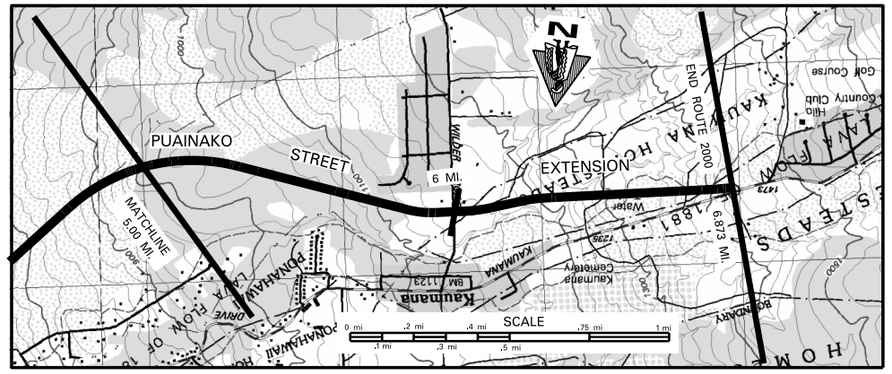
STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

PREPARED BY THE
HIGHWAYS PLANNING BRANCH

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

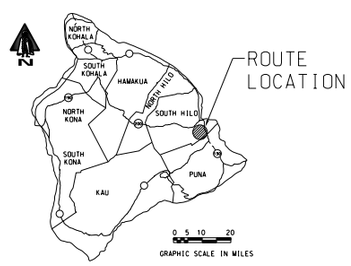
Total Route Length: 6.873 miles
- a. Survey Length: 6.873 miles
- b. Proposed Length: 0.00 miles
- c. Other Length: * 0.00 miles

*



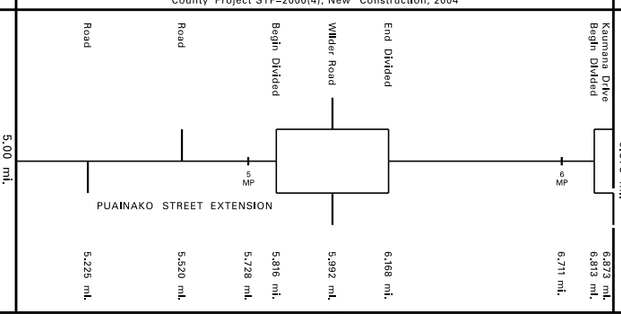
SCALE: (In Miles) 4" = 1 mile

Maintenance Control Sections : Length and Description	
Structure Carrying Road: Bridges (Over 20'): Length, Type, Capacity and Year Constructed	
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	120'
Available Right of Way Width (Needs Study)	
Right of Way Fence: Type – Right and Left	
Control of Access: 1–None, 2–Partial, 3–Full	Partial
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)	State
Project No., Type of Construction, and Year Constructed	
Project No., Type of Construction, and Year Constructed	County Project STP–2000(4), New Construction, 2004



Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET 1.



END ROUTE 2000 ON PUAINAKO STREET EXTENSION AT THE EAST EDGE OF PAVEMENT WITH KAUMANA DRIVE.
*6.873 mi.

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH '12 VIDEOLOG & '12 FEATURES DATABASE.

SCALE: (In Miles) 4" = 1 mile

Divided Highway – Undivided: Shoulder: Width and Type	9' AC
Divided Highway – Undivided: Pavement: Width and Type	24' AC / 12' AC / 24' AC / (12' AC)
Divided Highway – Undivided: Shoulder: Width and Type	9' AC / 0 / 9' AC / 0
Divided Highway: Median: Width and Type	0'–10' Painted AC / (12' Painted AC)
Divided Highway: Median Barriers:	.896 / .868 / .813
Divided Highway – Undivided: Shoulder: Width and Type	0 / 0
Divided Highway – Undivided: Pavement: Width and Type	12' AC / (12' AC)
Divided Highway – Undivided: Shoulder: Width and Type	9' AC / (9' AC)
Number of Traffic Lanes	2–12'
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	.292 .034 .315
(Right Side)	.268 .292 .447
Frontage Road: No. of Lanes, and Width (Right and Left)	.828
Sidewalk: Width and Type (Right and Left)	
Curb and/or Gutter: Type (Right and Left)	.030 .382 .491 .532 .660 .954 .549 .659
Protective Devices: Type, Location and Number — All Metal Rails on Metal Posts unless noted otherwise.	
Illumination: Type, Location and Number	.444 .559 .566 .713 .767 .901 .977 .302 .516
Curves Class: +/– Degree (A(0–3.45) B(3.45–5.44) C(5.44–8.48) D(8.48–13.85) E(13.85–28.62) F(<28.62)	A 5.94 B 5.94 A
Superelevation (Range)	
Grades Class: +/– % (A(0–.45) B(.45–2.45) C(2.45–4.45) D(4.45–6.45) E(6.45–8.45) F(<8.45)	D .516 B .520 D .888 C .914 D .932 E .952 D .961 E
Vertical Curve: Crest or Sag, Curve Limits	
Area and Development:	Small Urban (99998)
Terrain: 1–Flat, 2–Rolling, 3–Mountainous	Rolling (2)
Speed: 1–Design, 2–Posted	55 MPH (2) .513 40 MPH (2)
Intersection Control Devices: Type, Location and Cycle Timing	
Traffic Stations (Current Year)	B71 2000 00218
HPMS Sections – AADT 2016	6,600
HPMS Sections – AADT 2015	6,000
HPMS Sections – AADT 2014	5,600
DOD Sections	
Census Tracts	
Functional Classification	Major Collector (5)
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.
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1/17	E.P.J.
Feb. 18	D.B.