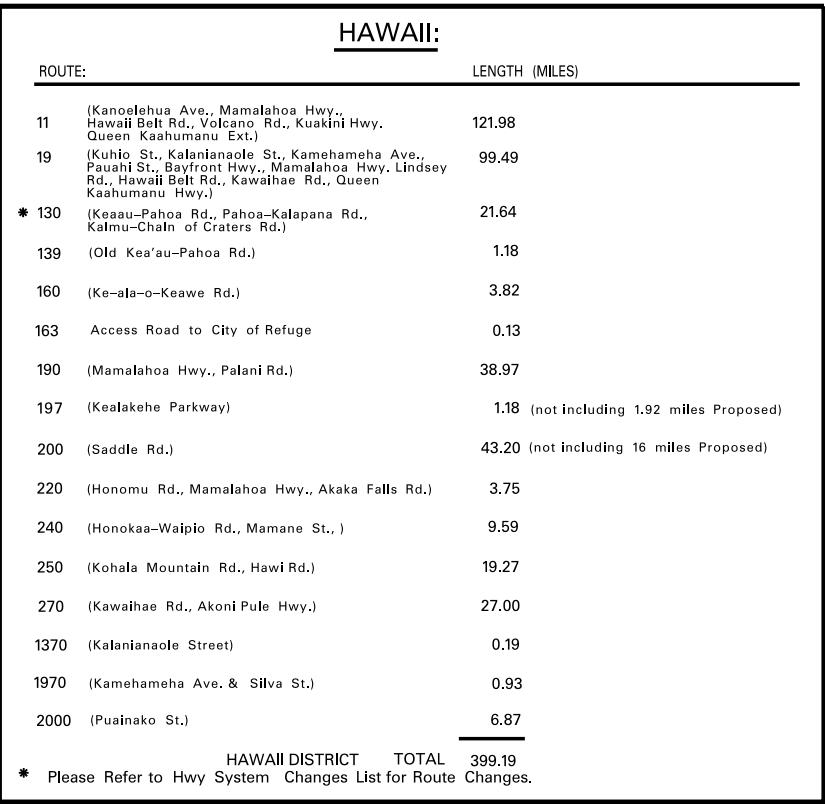




ISLAND OF HAWAII

DECEMBER 2014



DISCLAIMER: This product is for informational purposes only and may not be suitable for legal, engineering, or surveying purposes. This information is provided with the understanding that conclusions drawn from such information are the responsibility of the user. If you feel the information shown on this product is questionable, please contact the State of Hawaii, Highways Division, Planning Branch, at gishelp.hwyp@hawaii.gov or at (808) 587-1841 to report the issue.

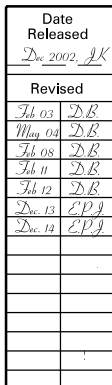


STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
PREPARED BY THE HIGHWAYS DIVISION, PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

DECEMBER 2014

P A C I F I C

O C E A N



VOLCANO ROAD – KANOELEHUA AVE.

STATE OF IOWA
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:	<u>121.98</u>	MILES (a + b)
a. Existing Length:	<u>121.98</u>	MILES
b. Proposed Length:	<u>0.00</u>	MILES
Total Travel Way Length:	<u>121.98</u>	MILES (a + b, less c)
a. Existing Length:	<u>121.98</u>	MILES
b. Temporary Length:	<u>0.00</u>	MILES
c. Length used as T.W. for another Route:	<u>NONE</u>	MILES (-)

NEEDS STUDY ROUTE NO. _____ FUNCTIONAL CLASSIFICATION _____

SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description	
1	100' - 150'
2	150' - 200'
3	200' - 250'
4	250' - 300'
5	300' - 350'
6	350' - 400'
7	400' - 450'
8	450' - 500'
9	500' - 550'
10	550' - 600'
11	600' - 650'
12	650' - 700'
13	700' - 750'
14	750' - 800'
15	800' - 850'
16	850' - 900'
17	900' - 950'
18	950' - 1000'

SCALE: (In Miles) 2" = 1 mile

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

Vertical Clearance

Horizontal Clearance

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.-max.) if varies

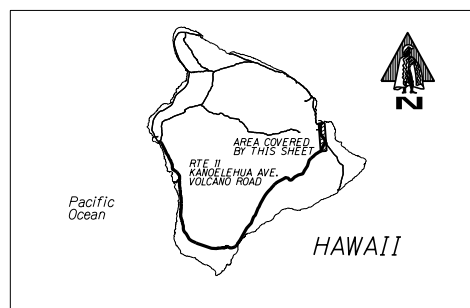
Right of Way Fence: Type – Right and Left

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

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

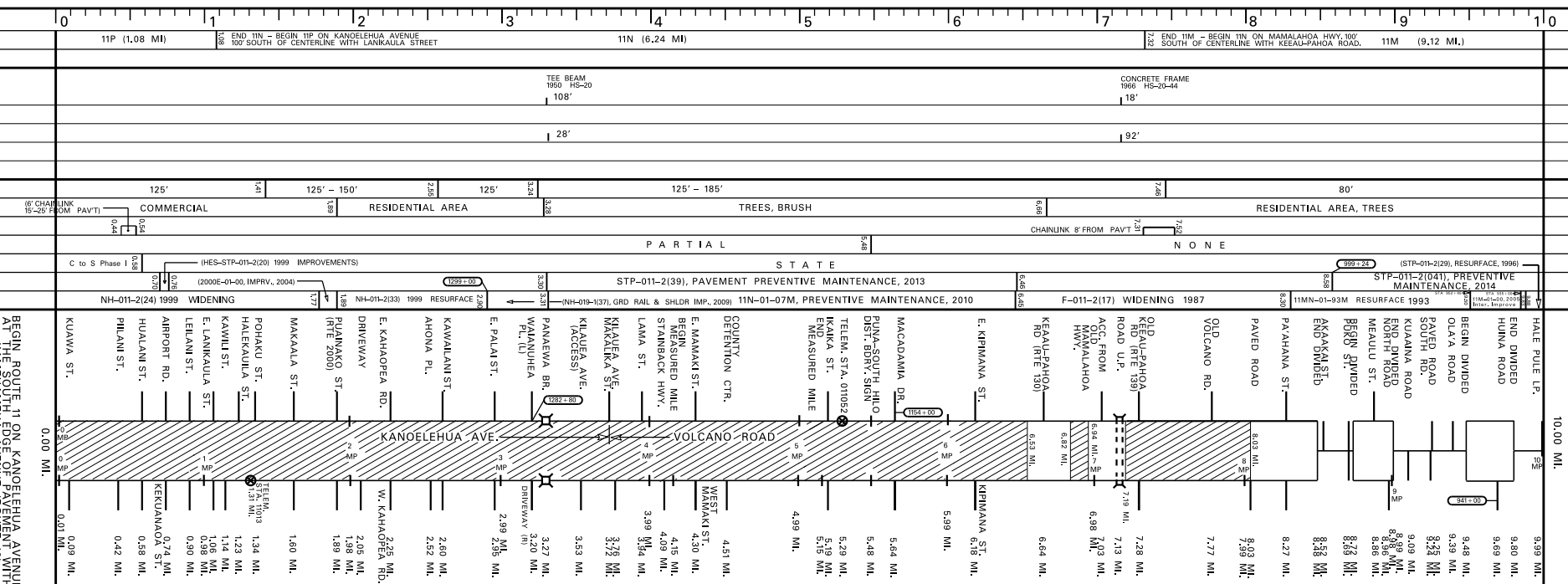
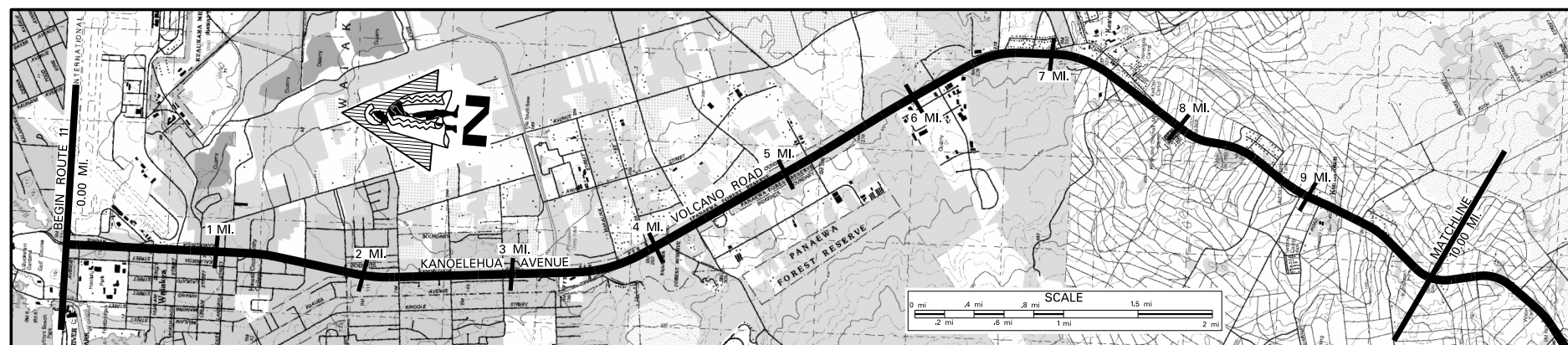
Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed

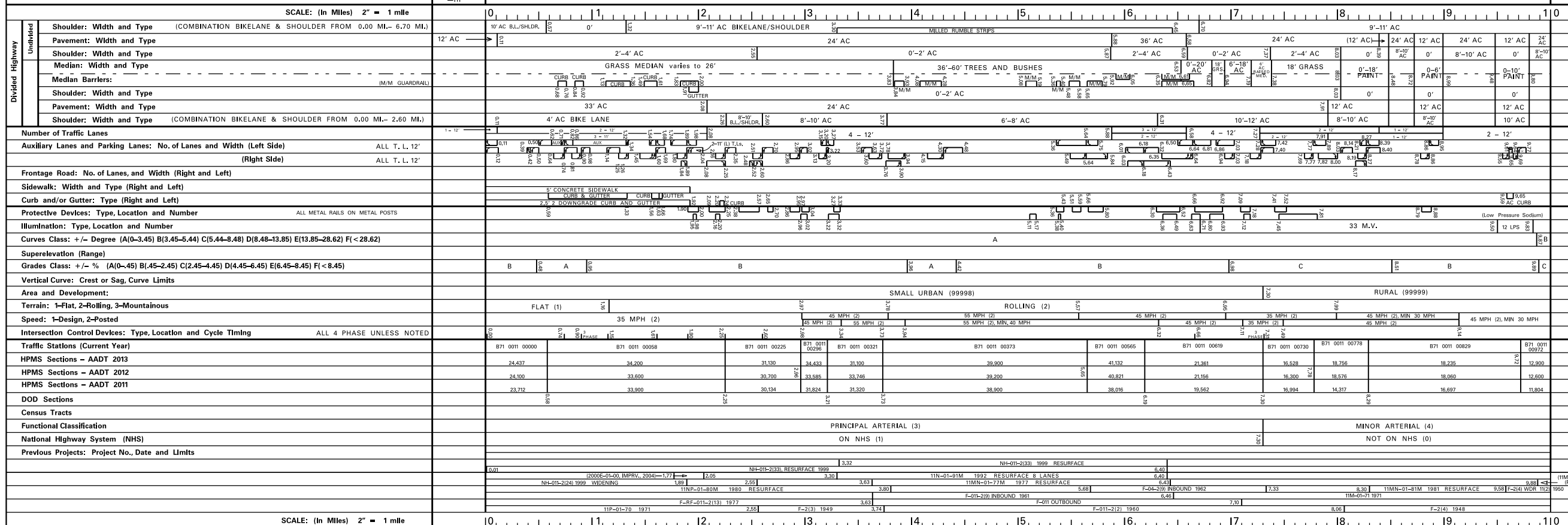


Road Diagram

 Indicates Grass & / or Physical Barrier on Median.



CONTINUES ON SHEET #2



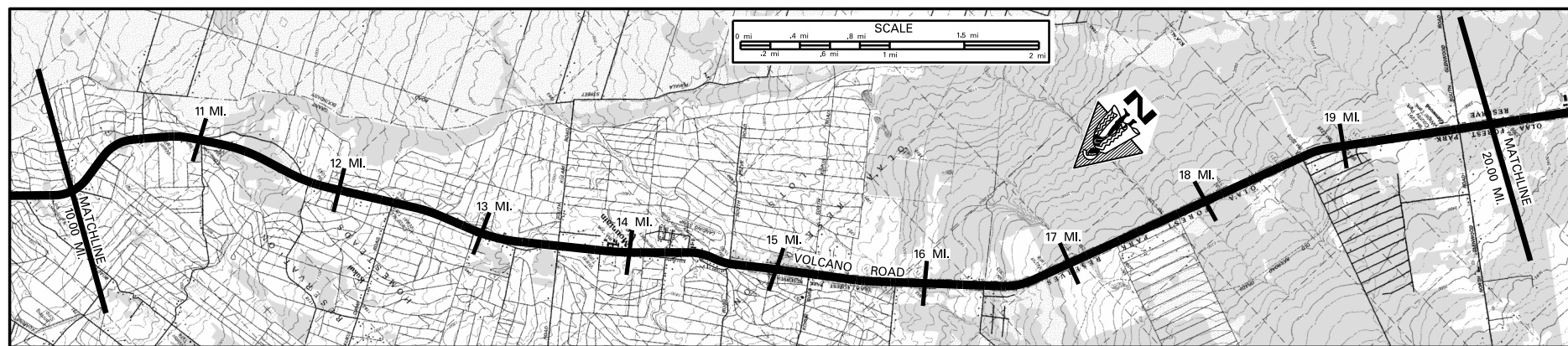
SCALE: (In Miles) 2" = 1 mile

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: 121.98 miles
a. Survey Length: 121.98 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
	Vertical Clearance
Structure Over Road	Vertical Clearance
	Horizontal Clearance

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

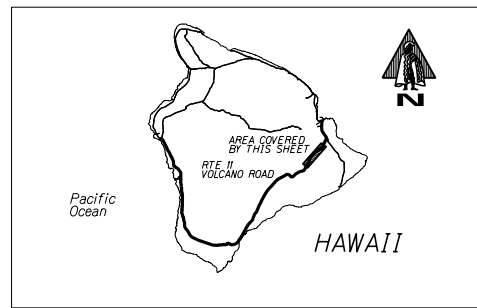
Right of Way Fence: Type - Right and Left

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	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

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(0-4.5) B(4.5-2.45) 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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

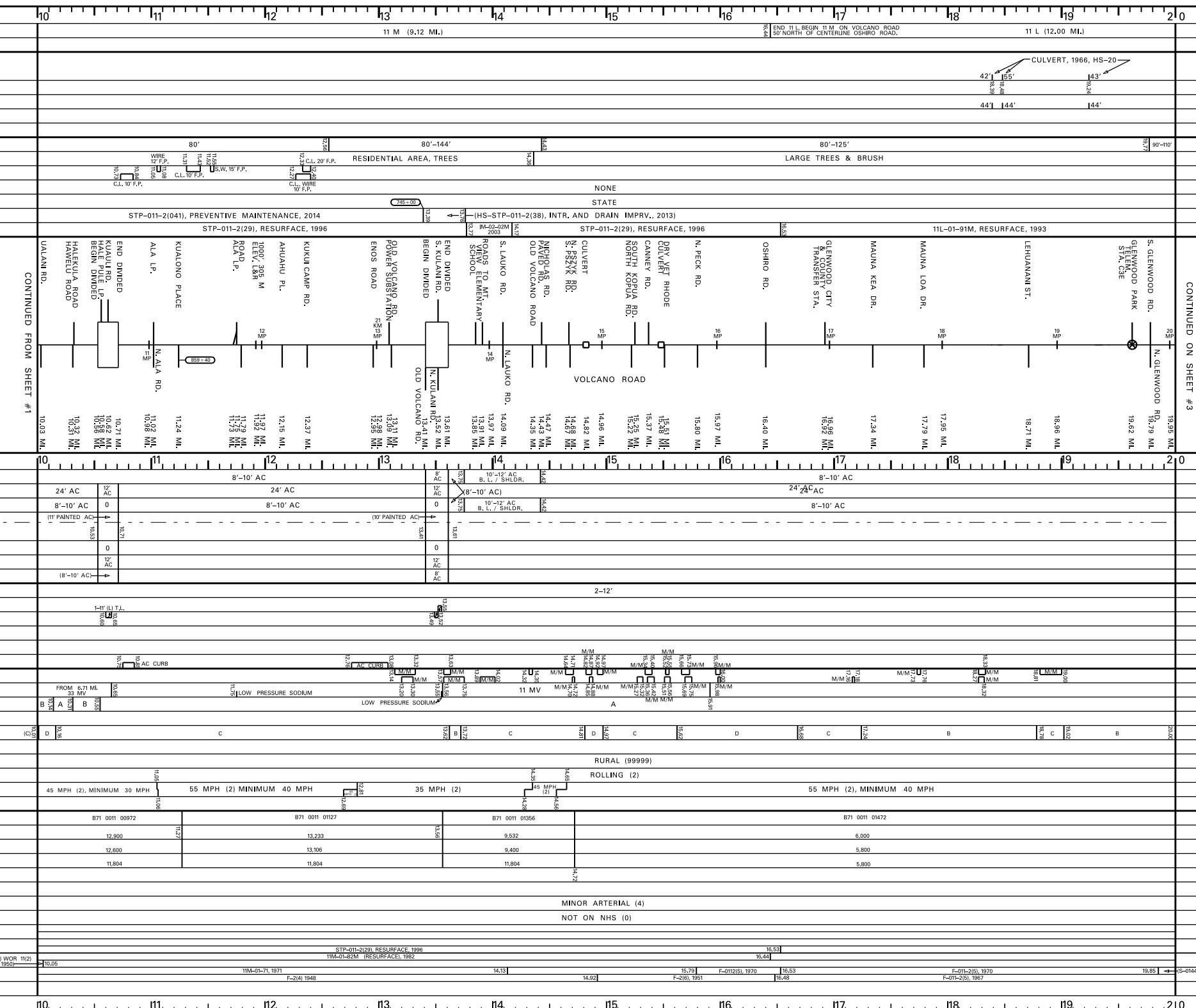
DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits



SCALE: (In Miles) 2" = 1 mile

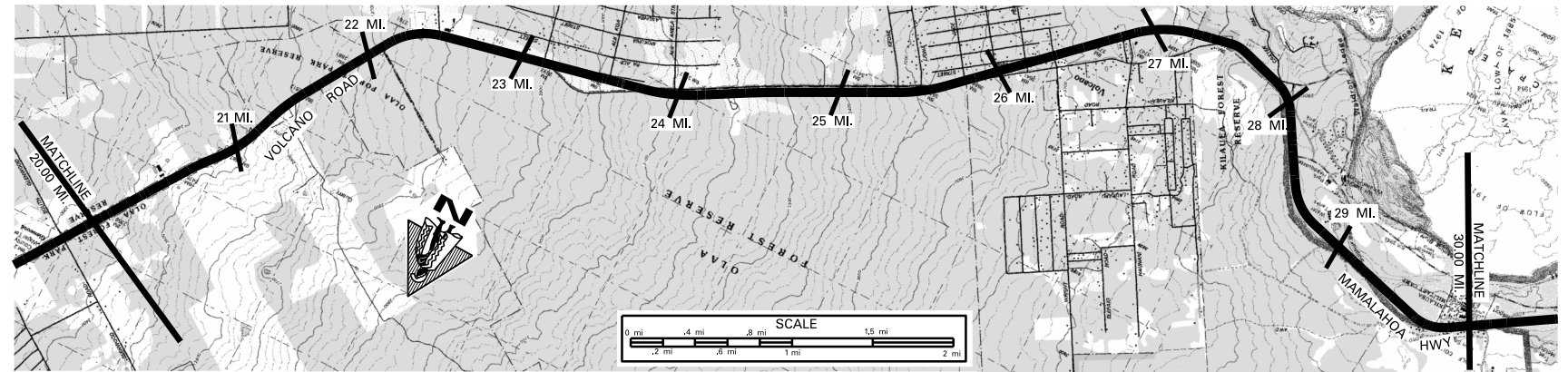
Date Released	Revised
JUNE 05, D.B.	
5/06 G.N.	
9/10 D.B.	
2/11 D.B.	
2/12 D.B.	
9/12 E.P.J.	
1/13 E.P.J.	
12/13 E.P.J.	
7/14 D.B.	

Total Route Length: 121.98 miles

a. Survey Length: 121.98 miles

b. Proposed Length: 0.00 miles

c. Other Length: * 0.00 miles

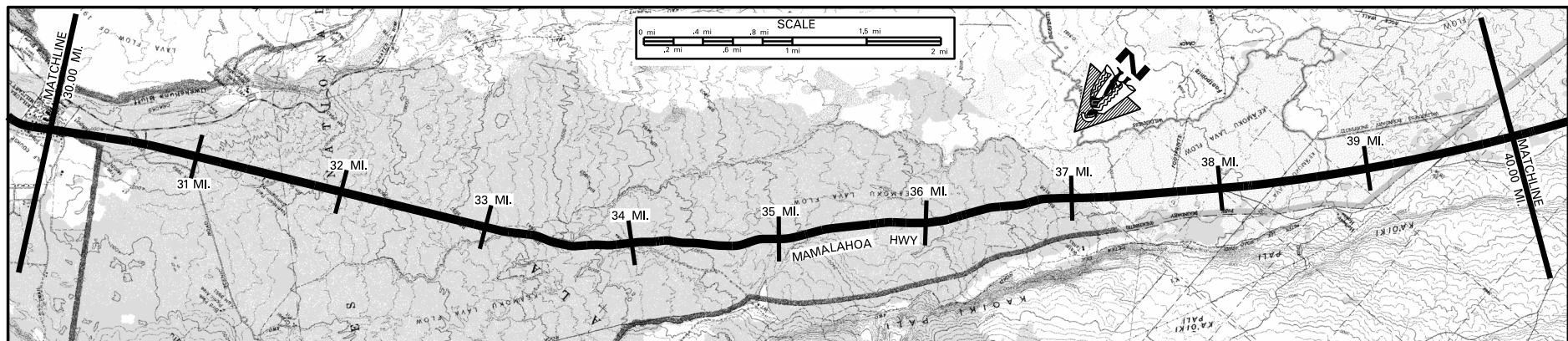
[illegible]

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: 121.98 miles
a. Survey Length: 121.98 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 11K BEGIN 11K ON MAMALAHOA HWY 1674' SOUTH OF CENTERLINE CRATER RIM RD./BIRD PARK RD. AT THE CONTROL 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

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)

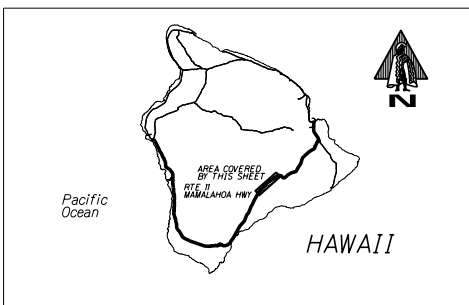
Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed

LARGE TREES AND BRUSH 80' BUSHES & TREES IN LAVA ROCK 100' 80'

NONE FEDERAL (STATE MAINTAINED) STATE

11K-01-03M (R), 2009 FLH-011-2(27), RESURFACE, 1998 STP-011-2(28), RESURFACE, 1995 11JK-01-90M, (R), 1991 (11H-01-80M, (R), 1980)



Road Diagram

* MP= Milepost Signage

CONTINUED FROM SHEET #3

CONTINUED ON SHEET #5

SCALE: (In Miles) 2" = 1 mile

Divided Highway

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

2'-4' AC 6' AC 2'-4' AC 24' AC 2'-4' AC 24' AC

2'-4' AC 24' AC 5'-7' AC 22' AC 3' AC 24' AC

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 GUARDRAILS

Illumination: Type, Location and Number

Curves Class: +/- Degree (A(4-3.45) 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(0-4.5) B(4.5-2.45) 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

2-12' 2-11' 2-12'

2-12' 2-11' 2-12'

2-12' 2-11' 2-12'

2-12' 2-11' 2-12'

2-12' 2-11' 2-12'

2-12' 2-11' 2-12'

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2-12' 2-11' 2-12'

2-12' 2-11' 2-12'

2-12' 2-11' 2-12'

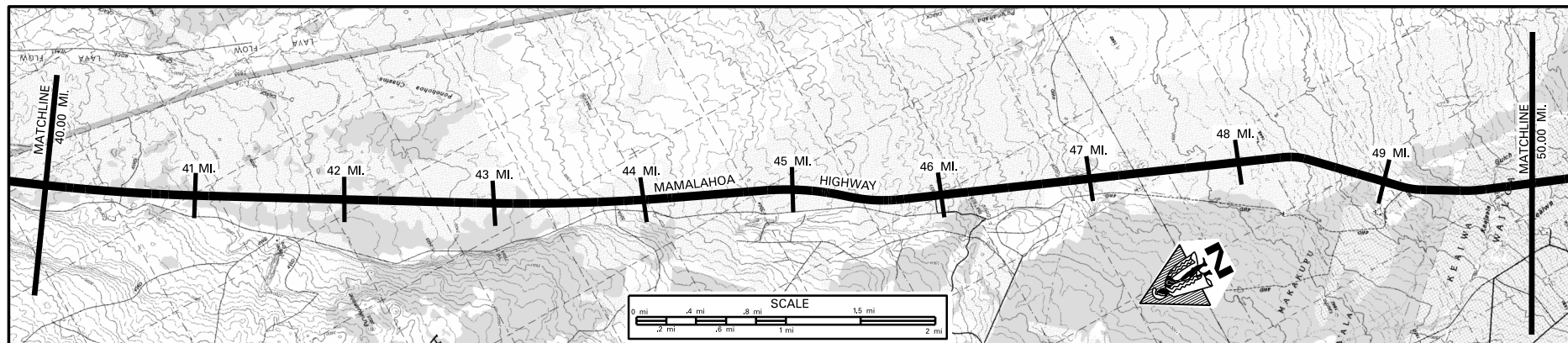
SCALE: (In Miles) 2" = 1 mile

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: 121.98 miles
a. Survey Length: 121.98 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
Vertical Clearance
Horizontal Clearance
Structure Over Road
Vertical Clearance
Horizontal Clearance

CONC. BOX CULVERT
1997 HS-20-44
PRESTRESSED CONC. PLANK,
HL-93, 2006
160' 73' 145'
40' 34' 40'

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)

80' 80' 60'
BUSHES AND TREES IN LAVA ROCK
WIRE ON WOOD 15' FROM PAVEMENT (L) & (R)
NONE
STATE

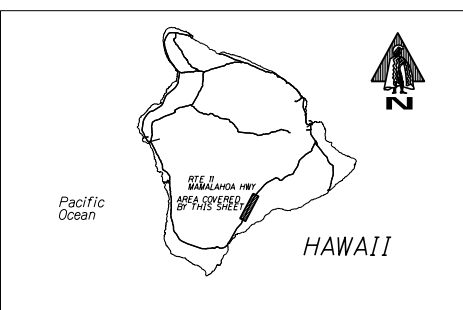
(EP-1212) BRIDGE REPLACEMENT, 2006
200+00 203+37.85 205+00

Project No., Type of Construction, and Year Constructed

11H-01-80M, RESURFACE, 1980

11HKL-01-97M, RESURFACE, 1998

(11HKL-01-97M) RESURFACE, 1998
(11H-01-80M) IMPROV., 1997



Road Diagram
* MP= Milepost Signage

CONTINUED FROM SHEET #4

MAMALAHOA HIGHWAY

CONTINUED ON SHEET #6

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

8' AC 3' AC / 3' GRAVEL 6' AC 7'-2' 3' AC / 3' GRAVEL 7' AC 3' AC / 3' GRAVEL 4'-6' AC 22' AC 6'-8' AC
8'-10' AC 3' AC / 3' GRAVEL 24' AC 8' AC 3' AC/2' GRAVEL 7' AC 3' AC / 3' GRAVEL 4'-5' AC 5'-7' AC 7'-9' AC
2'-12' 2'-11'

Number of Traffic Lanes

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

Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left)

Protective Devices: Type, Location and Number

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development:

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

Speed: 1=Design, 2=Posted

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year)

HPMS Sections - AADT 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

B71 0011 03947

1,876

1,858

2,035

B71 0011 04602

2,292

2,270

2,035

MINOR ARTERIAL (4)

NOT ON NHS (0)

45.63

11HKL-01-97M, (RESURFACE), 1998

(11HKL-01-80M, (RESURFACE), 1982) - 49.51

(11HKL-01-80M, (SHOULDER STABILIZATION), 1991) - 49.51

(11HKL-01-80M, (SHOULDER STABILIZATION), 1991) - 49.51

(11HKL-01-80M, (SHOULDER STABILIZATION), 1991) - 49.51

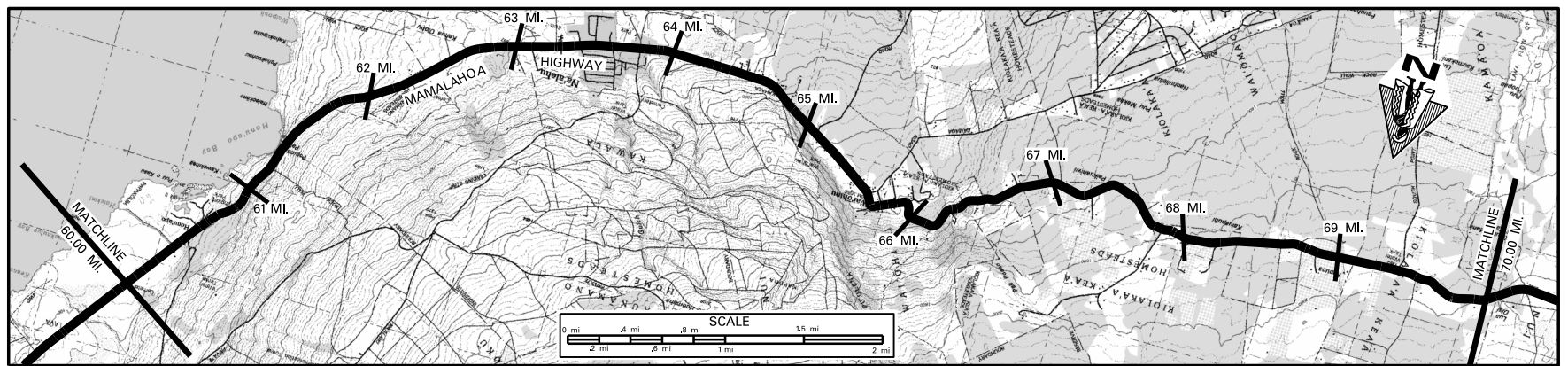
(11HKL-01-80M, (SHOULDER STABILIZATION), 1991) - 49.51

(11HKL-01-80M, (SHOULDER STABILIZATION), 1991) - 49.51

(11HKL-01-80M, (SHOULDER STABILIZATION), 1991) - 49.51

SCALE: (In Miles) 2" = 1 mile

Total Route Length:	<u>121.98</u>	miles
a. Survey Length:	<u>121.98</u>	miles
b. Proposed Length:	<u>0.00</u>	miles
c. Other Length: *	<u>0.00</u>	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		SLAB 1940, H-15	
	Vertical Clearance		144'	
	Horizontal Clearance		124'	
Structure Over Railroad	Vertical Clearance			
	Horizontal Clearance			

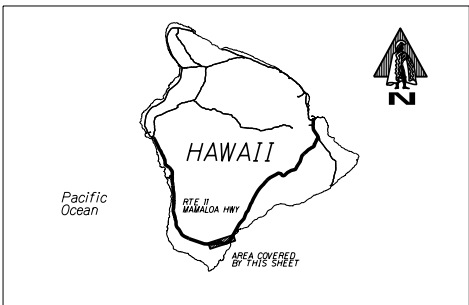
Right of Way Width (min.-max.) if varies

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

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

Road Diagram

* MP = Milepost Signage

CONTINUED FROM SHEET #6

CONTINUED ON SHEET #8

SCALE: (In Miles) 2" = 1 mlie

[illegible]

Number of Traffic Lanes

Auxiliary Lanes and Parking Lanes: No. of Lanes and V	

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

Sidewalk: Width and Type (Right and Left)

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

Protective Devices: Type, Location and Number

Illumination: Type, Location and Number

Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-

Superelevation (Range)

Grades Class: +/- % (A)(0-.45) B(.45-2.45) C(2.45-4.45) L

Vertical Curve: Crest or Sag, Curve Limits

Terrain: 1 Flat 3 Rolling 3 Mountainous

Speed: 1. Design, 2. Boated

Intersection Control Devices: Type Location and Cycle

Traffic Stations (Current Year)

HPMS Sections – AADT 2013

HPMS Sections - AADT 2012

HPMS Sections – AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits		

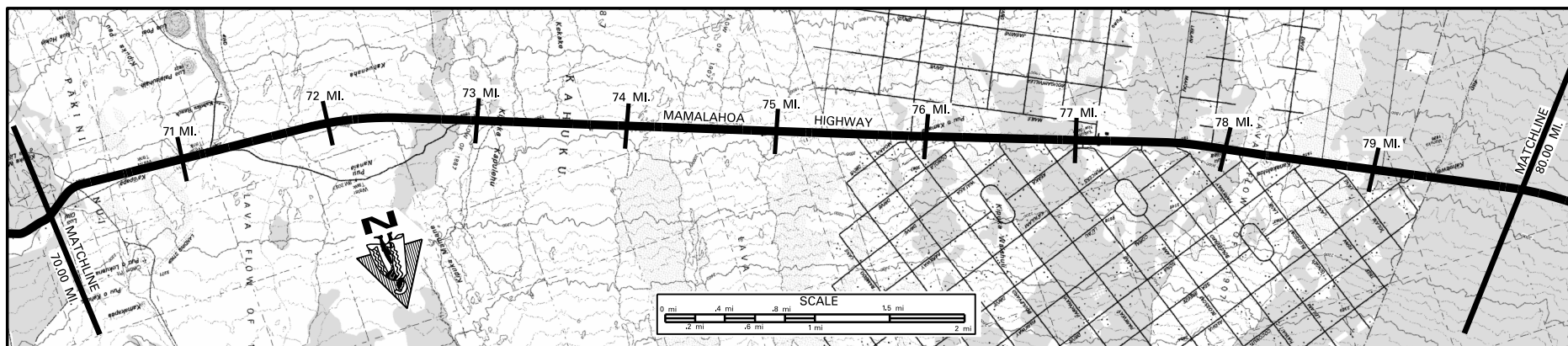
[illegible]

60.29	FAGH	18	D(1)	1938	60.81	62.59	COUNTY (P-1942) 1974	66.10	COUNTY (P-1829) 1974
-------	------	----	------	------	-------	-------	----------------------	-------	----------------------

SCALE: (In Miles) 2" = 1 mlie

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

0.00 miles

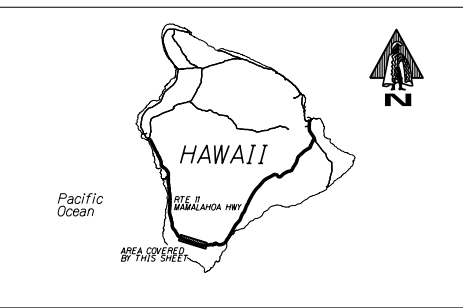
[illegible]

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

CONTINUED FROM SHEET #7

CONTINUED ON SHEET #2

SCALE: (In Miles) 2" = 1 mle

Divided Highway	Unimproved	Shoulder: Width and Type	4'-6' AC	8'-10' AC	6' BP		
		Pavement: Width and Type	24' AC	12' AC	22' AC		
		Shoulder: Width and Type	4'-6' AC	8'-10' AC	0	24' AC	6' BP
		Median: Width and Type		12' PAINTED AC			
		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

Illustration: Type, Location, and Number

[illegible]

Curves Class: +/- Degr

Grades Class: +/- % (A(0-.45) B(.45-2.45) C

Vertical Curve: Crest or

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)		871 0011 06798	871 0011 07022	871 0011 07663	871 0011 07758	
HPMS Sections – AADT 2013		2,397	2,813	3,647	3,647	
HPMS Sections – AADT 2012		2,374	2,786	3,612	3,612	
HPMS Sections – AADT 2011		2,174	2,569	3,359	3,359	
DOD Sections		70,207	70,207	70,207	70,207	

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects:	Project No.	Date and Limits
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[illegible]

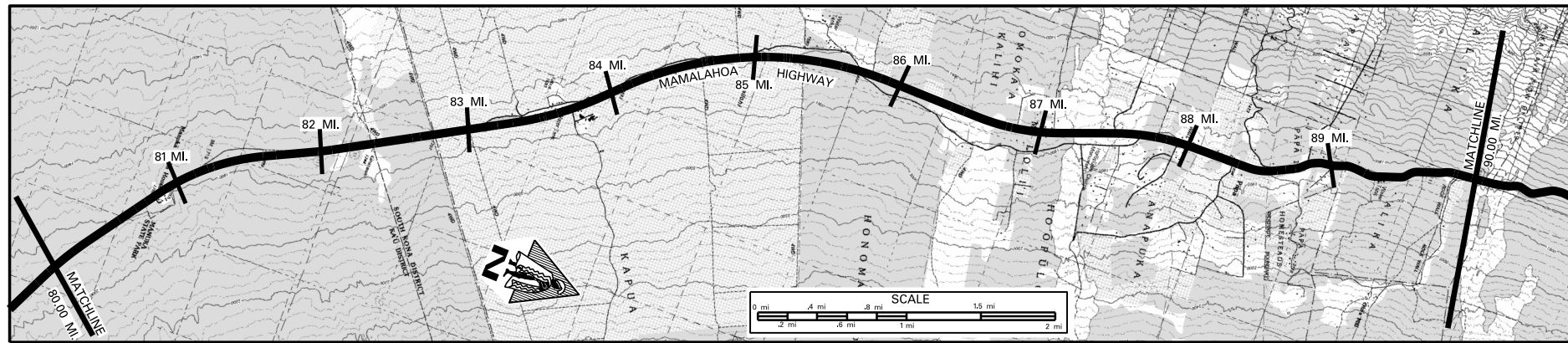
SCALE: (In Miles) 2" = 1 mlie

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: 121.98 miles
a. Survey Length: 121.98 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles

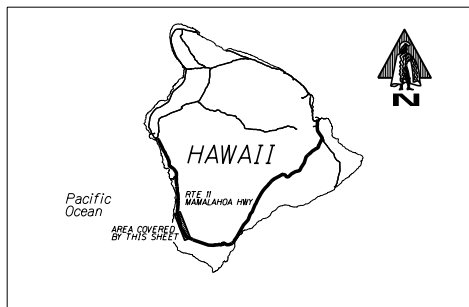


SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

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

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



Road Diagram
* MP=Milepost Signage

CONTINUED FROM SHEET #8

CONTINUED ON SHEET #10

SCALE: (In Miles) 2" = 1 mile

Divided Highway	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

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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

6' BP	22' AC	6' BP	EDGELINE MILLED RUMBLE STRIP	0'-6" GRASS	8' AC	10'-6" AC
2'-8" GRAVEL	EDGELINE MILLED RUMBLE STRIP	2'-8" GRAVEL	EDGELINE MILLED RUMBLE STRIP	2'-8" GRAVEL	8' AC	10'-6" AC
(RAISED PAVEMENT MARKER CENTERLINE RUMBLE STRIP)	(RAISED PAVEMENT MARKER CENTERLINE RUMBLE STRIP)	(RAISED PAVEMENT MARKER CENTERLINE RUMBLE STRIP)	(RAISED PAVEMENT MARKER CENTERLINE RUMBLE STRIP)	(RAISED PAVEMENT MARKER CENTERLINE RUMBLE STRIP)	(RAISED PAVEMENT MARKER CENTERLINE RUMBLE STRIP)	(RAISED PAVEMENT MARKER CENTERLINE RUMBLE STRIP)
(CENTERLINE MILLED RUMBLE STRIP)	(CENTERLINE MILLED RUMBLE STRIP)	(CENTERLINE MILLED RUMBLE STRIP)	(CENTERLINE MILLED RUMBLE STRIP)	(CENTERLINE MILLED RUMBLE STRIP)	(CENTERLINE MILLED RUMBLE STRIP)	(CENTERLINE MILLED RUMBLE STRIP)

2-11'

2-10'

2-12'

2-10'

2-12'

2-10'

2-12'

2-10'

2-12'

2-10'

2-12'

2-10'

2-12'

2-10'

2-12'

2-10'

2-12'

2-10'

2-12'

2-10'

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2-12'

2-10'

2-12'

2-10'

2-12'

2-10'

2-12'

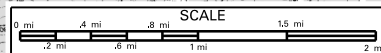
2-10'

2-12'

SCALE: (In Miles) 2" = 1 mile

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

c. Other Length: * 0.00 miles



Maintenance Control Sections : Length and Description	
1	1.000
2	2.000
3	3.000
4	4.000
5	5.000
6	6.000
7	7.000
8	8.000
9	9.000
10	10.000
11	11.000
12	12.000
13	13.000
14	14.000
15	15.000
16	16.000
17	17.000
18	18.000
19	19.000
20	20.000
21	21.000
22	22.000
23	23.000
24	24.000
25	25.000
26	26.000
27	27.000
28	28.000
29	29.000
30	30.000
31	31.000
32	32.000
33	33.000
34	34.000
35	35.000
36	36.000
37	37.000
38	38.000
39	39.000
40	40.000
41	41.000
42	42.000
43	43.000
44	44.000
45	45.000
46	46.000
47	47.000
48	48.000
49	49.000
50	50.000
51	51.000
52	52.000
53	53.000
54	54.000
55	55.000
56	56.000
57	57.000
58	58.000
59	59.000
60	60.000
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63	63.000
64	64.000
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81	81.000
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83	83.000
84	84.000
85	85.000
86	86.000
87	87.000
88	88.000
89	89.000
90	90.000
91	91.000
92	92.000
93	93.000
94	94.000
95	95.000
96	96.000
97	97.000
98	98.000
99	99.000
100	100.000

* MP = Milepost Signage

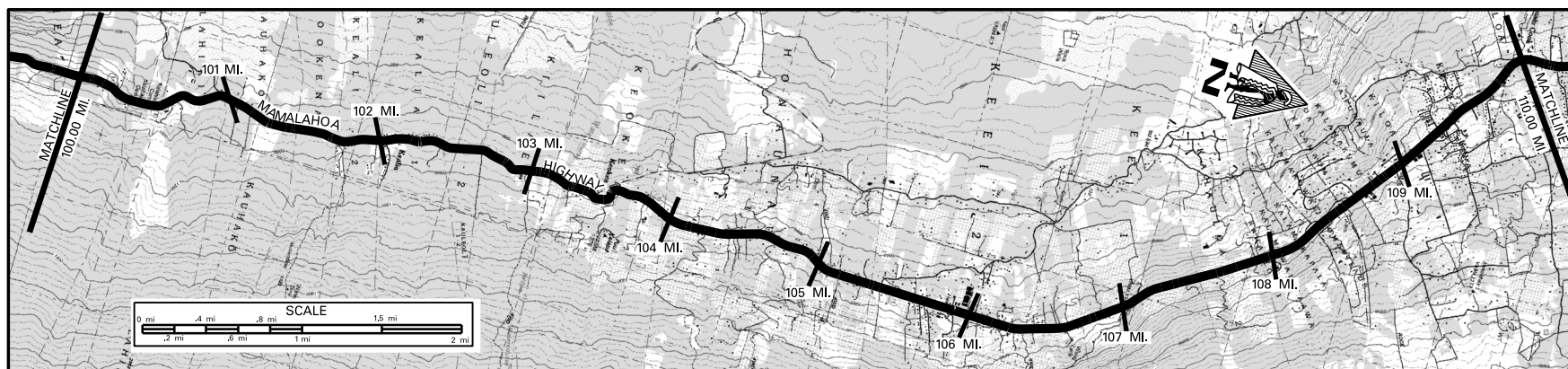
CONTINUED ON SHEET # 11

SCALE: (In Miles) 2" = 1 mle

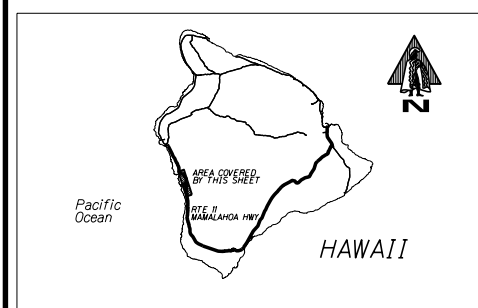
[illegible]

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U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

0.00 miles

[illegible]

Structure Carrying Road	Bridges (Over 20'): Length, Type, Capacity and Year Constructed					
Structure Over Road	Vertical Clearance					
	Horizontal Clearance					
	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 DIVISION STONE WALL 20' FROM EDGE OF PAVEMENT (CRM WALL) (FENCE) RESIDENTIAL AREA					
Right of Way Fence: Type - Right and Left	STONE WALL 20' FROM EDGE OF PAVEMENT (CRM WALL) (FENCE) NONE STONE WALL					
Control of Access: 1-None, 2-Partial, 3-Full	(11B-01-96M, (R), 1998)					
Jurisdiction, Transfer Phase No. and Date [C to S or S to C]	(11B-02-89, (WIDEN & RESURFACE), 1990) 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

CONTINUED ON SHEET #12

[illegible]

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)						

[illegible][illegible][illegible]

illumination: +/-		Degree		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)	
1 MV																					
20 MV																					

[illegible]

Grades Class: + / - % A(0.45-0.49) B(0.43-0.45) C(0.43-0.45) D(0.43-0.45) E(0.43-0.45) F(0.43-0.45)																			
Vertical Curve: + / - % Sag, Curve Limits																			

Area and Development:			RURAL (99999)	
Taxonomy: 1 Flat 2 Rolling 3 Mountainous	MOUNTAINOUS (2)	0	ROLLING (2)	0 0

[illegible]

Intersection Control Devices: Type, Location and Cycle Timing				
Yorba - Station (Current Year)				
Yorba - Station (Current Year)	Yorba - Station (Current Year)	Yorba - Station (Current Year)	Yorba - Station (Current Year)	Yorba - Station (Current Year)

HPMS Sections (Current Year)	DTI 001 0007	DTI 001 0010	DTI 001 0020	DTI 001 0022
HPMS Sections – AADT 2013	4,168	5,600	6,200	12,900
HPMS Sections – AADT 2012	4,128	5,900	6,100	13,100
HPMS Sections – AADT 2011	3,853	5,236	6,200	14,600
DOD Sections				

[illegible][illegible]

Previous Projects: Project No., Date and Limits			

[illegible]

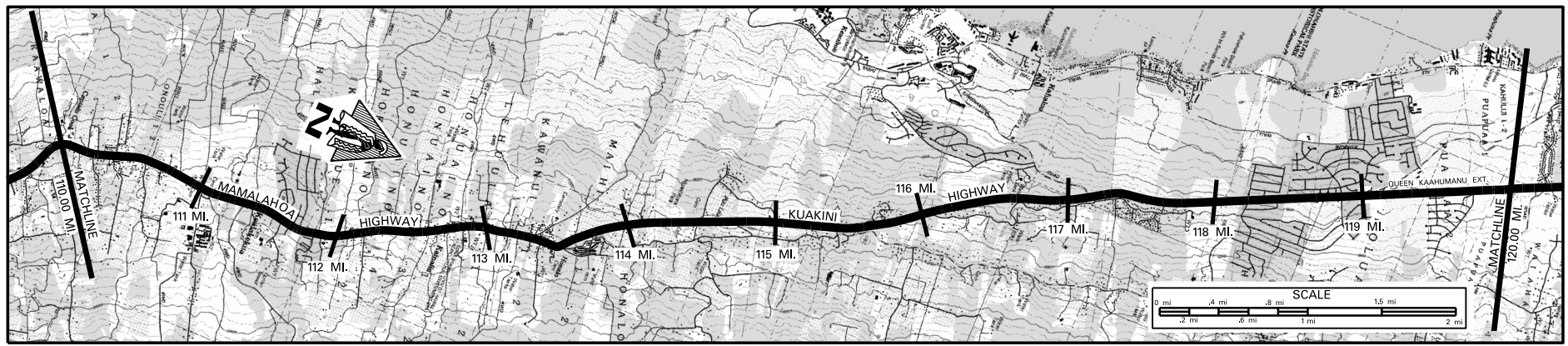
FAP 8-C, 1931	101.70	FAP 8-D, 1931	104.14	NRH 8-E, 1935	105.00	WPH 8-F, 1935	105.39	EXCEPTION	107.29	WPH 8-F, 1935	108.31	PROJ. #8-G	109.24
105.00 105.00													

SCALE: (In Miles) 2" = 1 mlie

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: 121.98 miles
a. Survey Length: 121.98 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

Vertical Clearance

Horizontal Clearance

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

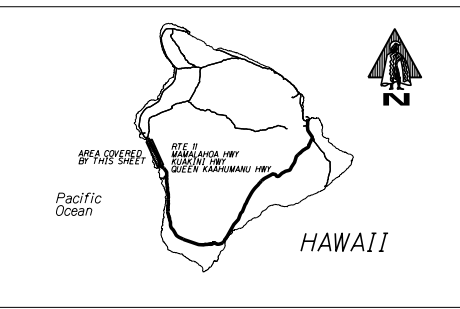
Right of Way Fence: Type - Right and Left

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

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

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(0-4.5) B(4.5-2.45) 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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

110 111 112 113 114 115 116 117 118 119 120

11B (14.50 MI.) 11A (14.50 MI.)

END 11A - BEGIN 11B ON MAMALAHOA HWY 65' S.E. OF CENTERLINE INTERSECTION WITH KEAHOHU ACCESS RD. (FASC 180)

11A

11B

11C

11D

11E

11F

11G

11H

11I

11J

11K

11L

11M

11N

11O

11P

11Q

11R

11S

11T

11U

11V

11W

11X

11Y

11Z

11AA

11AB

11AC

11AD

11AE

11AF

11AG

11AH

11AI

11AJ

11AK

11AL

11AM

11AN

11AO

11AP

11AQ

11AR

11AS

11AT

11AU

11AV

11AW

11AX

11AY

11AZ

11BA

11BB

11BC

11BD

11BE

11BF

11BG

11BH

11BI

11BJ

11BK

11BL

11BM

11BN

11BO

11BP

11BQ

11BR

11BS

11BT

11BU

11BV

11BW

11BX

11BY

11BZ

11CA

11CB

11CC

11CD

11CE

11CF

11CG

11CH

11CI

11CJ

11CK

11CL

11CM

11CN

11CO

11CP

11CQ

11CR

11CS

11CT

11CU

11CV

11CW

11CX

11CY

11CZ

11DA

11DB

11DC

11DD

11DE

11DF

11DG

11DH

11DI

11DJ

11DK

11DL

11DM

11DN

11DO

11DP

11DQ

11DR

11DS

11DT

11DU

11DV

11DW

11DX

11DY

11DZ

11EA

11EB

11EC

11ED

11EE

11EF

11EG

11EH

11EI

11EJ

11EK

11EL

11EM

11EN

11EO

11EP

11EQ

11ER

11ES

11ET

11EU

11EV

11EW

11EX

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11EZ

11FA

11FB

11FC

11FD

11FE

11FF

11FG

11FH

11FI

11FJ

11FK

11FL

11FM

11FN

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11FP

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11FT

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11FX

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11GL

11GM

11GN

11GO

11GP

11GQ

11GR

11GS

11GT

11GU

11GV

11GW

11GX

11GY

11GZ

11HA

11HB

11HC

11HD

11HE

11HF

11HG

11HH

11HI

11HJ

11HK

11HL

11HM

11HN

11HO

11HP

11HQ

11HR

11HS

11HT

11HU

11HV

11HW

11HX

11HY

11HZ

11IA

11IB

11IC

11ID

11IE

11IF

11IG

11IH

11II

11IJ

11IK

11IL

11IM

11IN

11IO

11IP

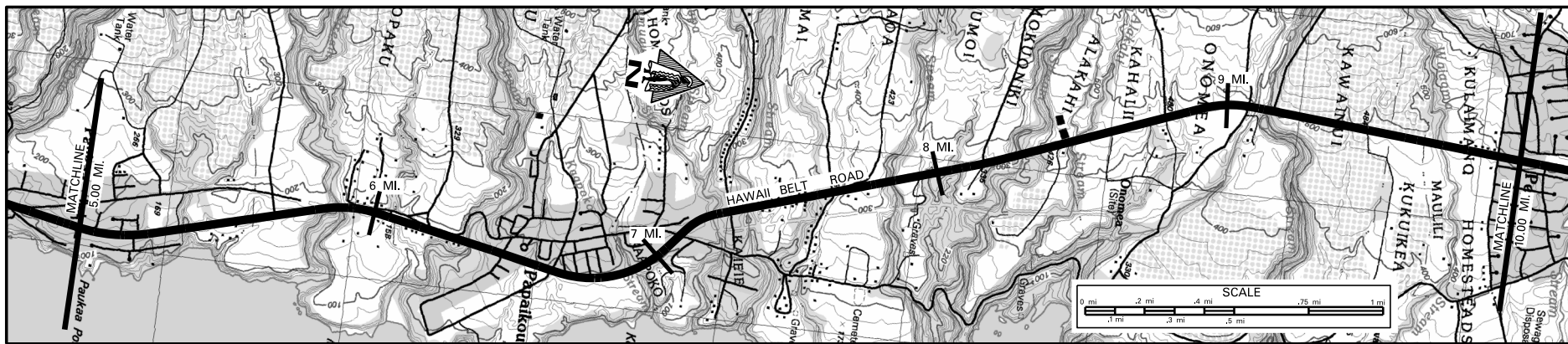
11IQ

<

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

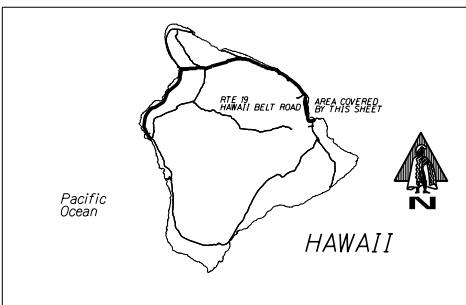
Total Route Length: 99.49 miles
a. Survey Length: 99.49 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles



SCALE: (In Miles) 4" = 1 mile

Maintenance Control Sections : Length and Description

Structure Carrying Road	Bridges (Over 20'): Length, Type, Capacity and Year Constructed			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									
				49'			415'			210'			145'			424'			71'			198'									
	Vertical Clearance			6' 2"			7' 2"			7' 27"			6' 20"			6' 20"			6' 20"												
	Horizontal Clearance			24'			28'			28'			28'			28'			24'			28'									
	Vertical Clearance									15' 11"																					
Horizontal Clearance									42'																						
Right of Way Width (min.-max.) if varies				70'-261'				70'-125'				100'-250'				80'-135'															
Available Right of Way Width (Needs Study)																				(SUGAR CANE) RESIDENTIAL											
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)												NONE																			
												STATE																			
Project No., Type of Construction, and Year Constructed																								STA 144+40				STA 159+00			
Project No., Type of Construction, and Year Constructed								19J-01-97M, (R), 1999								19J-01-97M, (R), 1999								19J-01-02 IMP 2005							



Road Diagram
* MP= Milepost Signage

CONTINUED FROM SHEET #1

CONTINUED ON SHEET #3

SCALE: (In Miles) 4" = 1 mile

Divided Highway	Undivided	Shoulder: Width and Type	6' AC 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 (12'-4' AC)									
		Pavement: Width and Type	24' AC 22' AC 35' AC 22' AC 12' AC									
		Shoulder: Width and Type	6' AC 6' AC 8'-12' GRASS/GRAVEL 4'-6' AC 6'-15' GRAVEL 18'-23' GRAVEL 13' AC 6' AC									
		Median: Width and Type	10'-15' AC/GRAVEL 10'-10' PAINTED MEDIAN									
		Median Barriers:										
		Shoulder: Width and Type	6' AC 6' AC 6' AC 6' AC 6' AC 6' AC 6' AC 6' AC 6' AC 6' AC									
		Pavement: Width and Type	12' AC 12' AC 12' AC 12' AC 12' AC 12' AC 12' AC 12' AC 12' AC 12' AC									
		Shoulder: Width and Type	6' AC 6' AC 6' AC 6' AC 6' AC 6' AC 6' AC 6' AC 6' AC 6' AC									
		Number of Traffic Lanes	2-12' 2-11' 2-11' 2-11'									
		Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	(10' TL)									
		(Right Side)										
Frontage Road: No. of Lanes, and Width (Right and Left)	1-12' TRUCK CLIMBING LANE											
Sidewalk: Width and Type (Right and Left)												
Curb and/or Gutter: Type (Right and Left)												
Protective Devices: Type, Location and Number	(1) METAL ON METAL, (2) WOOD ON CONC., (3) METAL ON CONC.											
Illumination: Type, Location and Number												
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(0-4.5) B(4.5-2.45) C(2.45-4.45) D(4.45-6.45) E(6.45-8.45) F(<8.45))	A B C D C B											
Vertical Curve: Crest or Sag, Curve Limits												
Area and Development:												
Terrain: 1-Flat, 2-Rolling, 3-Mountainous												
Speed: 1-Design, 2-Posted	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 00322 B71 0019 00640 B71 0019 00760 B71 0019 00966											
HPMS Sections - AADT 2013	13,000 9,734 10,100 9,990											
HPMS Sections - AADT 2012	12,400 9,600 10,100 10,733											
HPMS Sections - AADT 2011	12,152 13,239 10,300 9,979											
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) 4" = 1 mile												

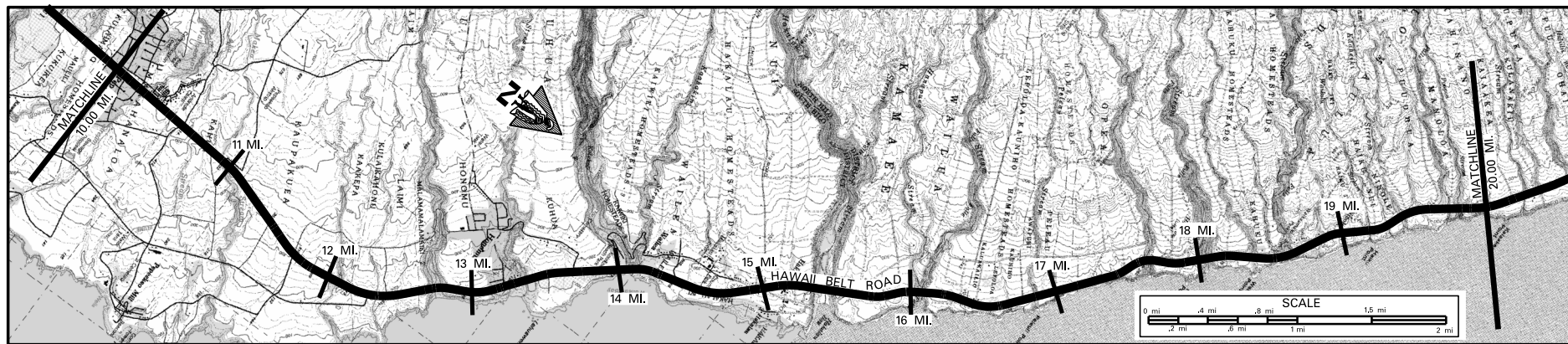
Date Released	Revised
Feb 2006, D.B.	
5/06	G.N.
12/09	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
1/13	E.P.J.
12/13	E.P.J.
7/14	D.B.

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: 99.49 miles
a. Survey Length: 99.49 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

Vertical Clearance

Horizontal Clearance

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

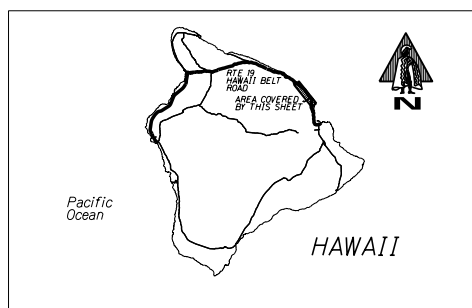
Right of Way Fence: Type - Right and Left

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

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

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed



Indicates Grass & / or
Physical Barrier on Median.

Road Diagram

* MP= Milepost Signage

SCALE: (In Miles) 2" = 1 mile

Divided Highway

Shoulder: Width and Type

Pavement: Width and Type

Shoulder: Width and Type

Median: Width and Type

Median Barriers:

Shoulder: Width and Type

Pavement: Width and Type

Shoulder: Width and Type

Number of Traffic Lanes

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

(Right Side)

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

Sidewalk: Width and Type (Right and Left)

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

Protective Devices: Type, Location and Number

ALL METAL ON METAL; (2) WOOD ON CONCRETE

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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

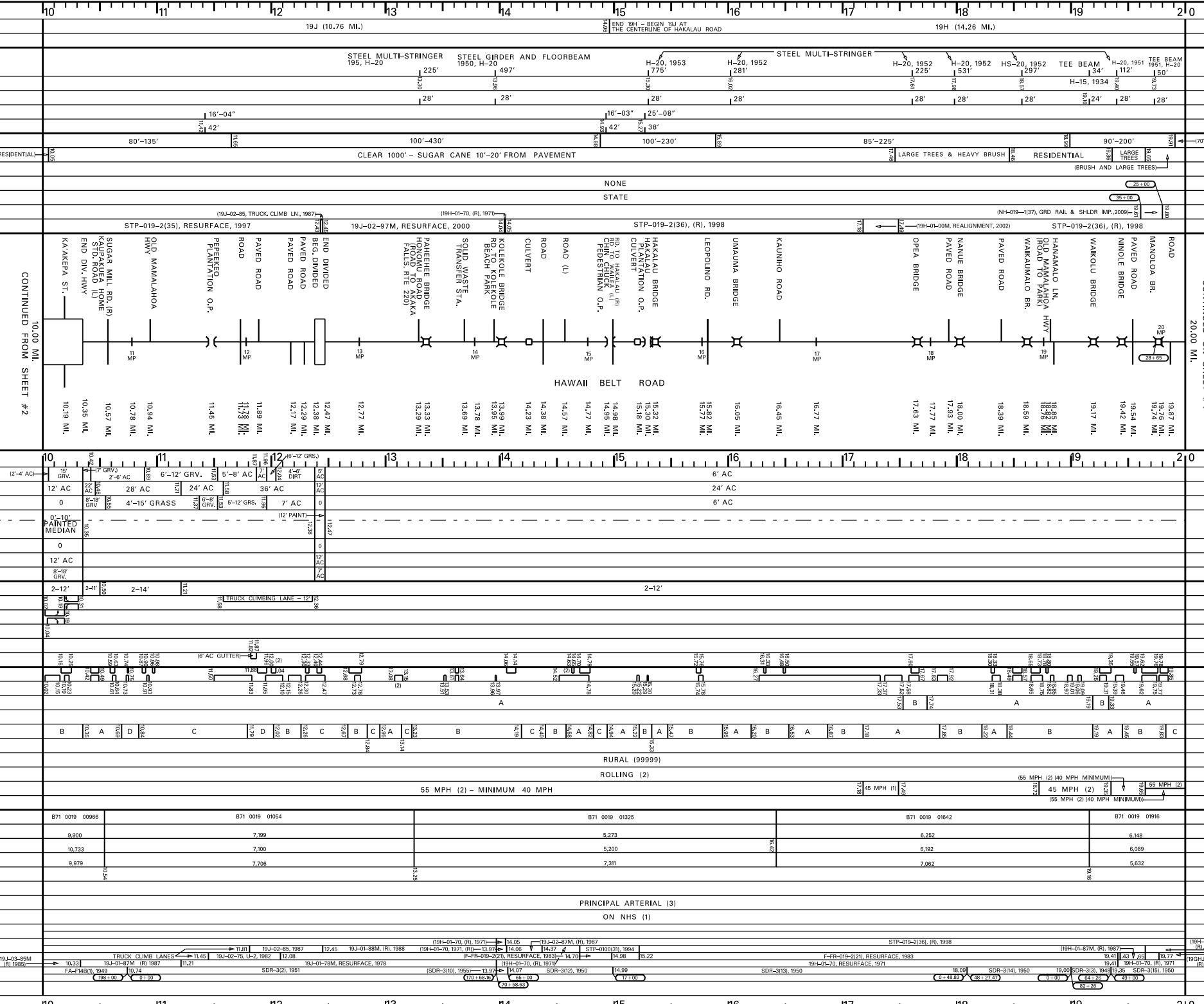
Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

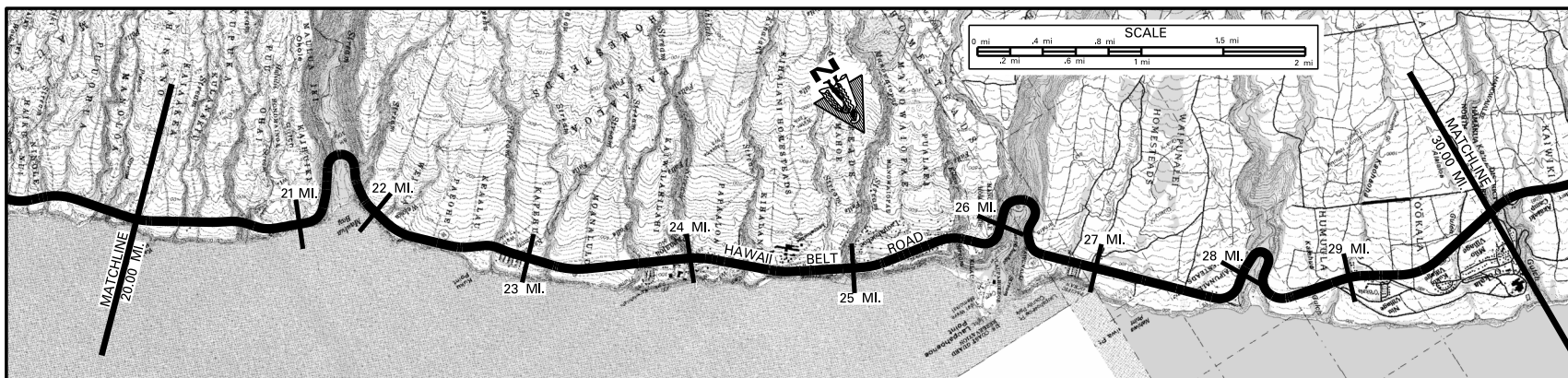


ROAD INVENTORY
HAWAII RTE 19
HAWAII BELT ROAD

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: 99.49 miles
a. Survey Length: 99.49 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

Structure
Carrying
Road

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

Vertical Clearance

Horizontal Clearance

Structure
Over
Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

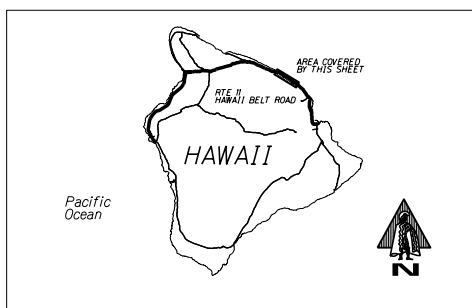
Right of Way Fence: Type - Right and Left

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

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

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed



Road Diagram

* MP=Milepost Signage

CONTINUED FROM SHEET #3

CONTINUED ON SHEET #5

SCALE: (In Miles) 2" = 1 mile

Divided Highway

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 (1) METAL ON METAL (2) WOOD ON CONCRETE (3) METAL ON CONCRETE

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 2013

HPMS Sections AADT 2012

HPMS Sections AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

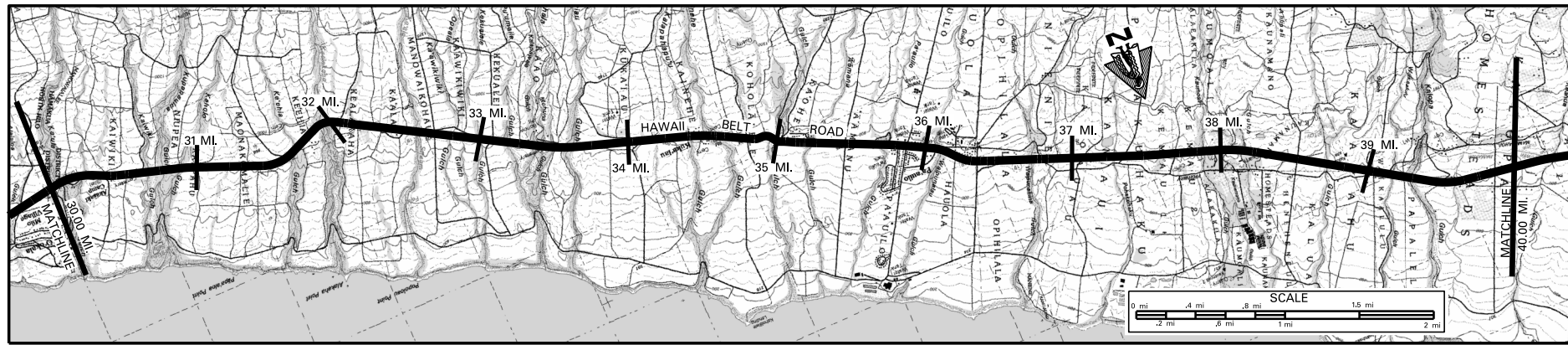
SCALE: (In Miles) 2" = 1 mile

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: 99.49 miles
a. Survey Length: 99.49 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
Over
Road

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

Vertical Clearance

Horizontal Clearance

Vertical Clearance

Horizontal Clearance

Right of Way Width (min.-max.) if varies

Available Right of Way Width (Needs Study)

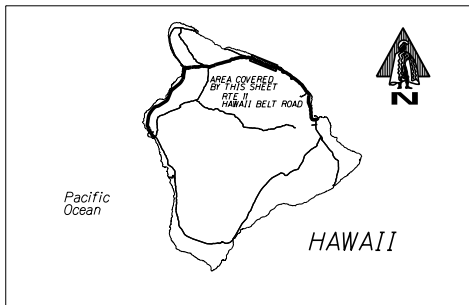
Right of Way Fence: Type - Right and Left

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

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

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed



Indicates Grass & / or
Physical Barrier on Median.

Road Diagram

* MP=Milepost Signage

SCALE: (In Miles) 2" = 1 mile

Divided Highway

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 (1) METAL RAIL ON METAL POST (2) WOOD 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(0-4.5) B(4.5-2.45) 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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

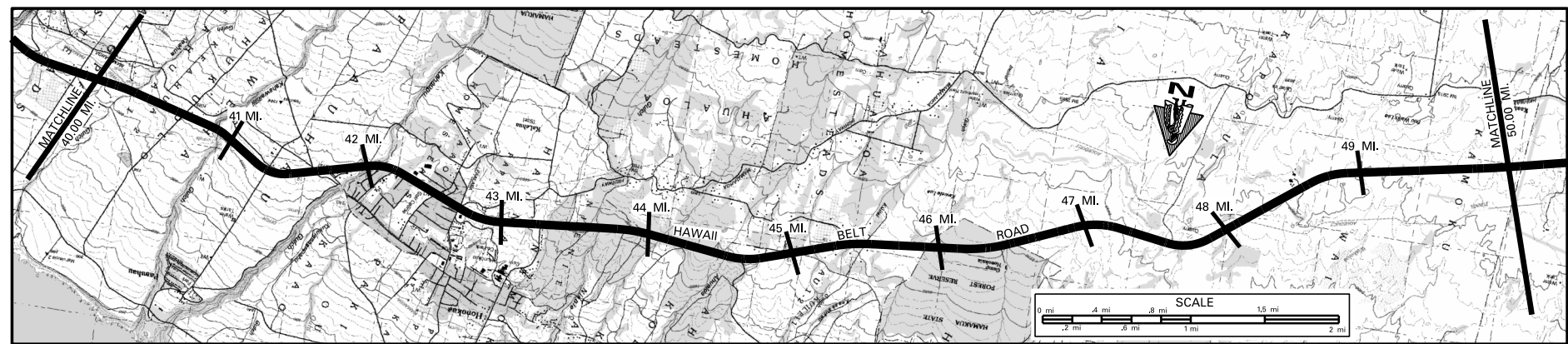
Previous Projects: Project No., Date and Limits

Date Released	Revised
Feb 2006, D.B.	
3/06	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.

SCALE: (In Miles) 2" = 1 mile

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

SCALE: (In Miles) 2" = 1 mile

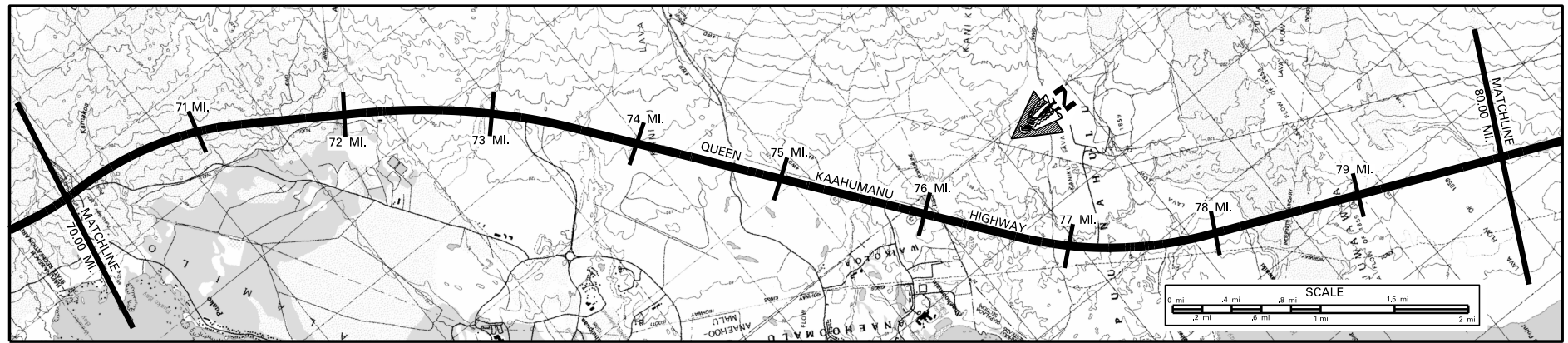
[illegible]

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: 99.49 miles
a. Survey Length: 99.49 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
	Vertical Clearance
Structure Over Road	Horizontal Clearance

Right of Way Width (min-max.) if varies

340' - 420'

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)

Right of Way Fence: Type - Right and Left

NONE

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

NONE

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

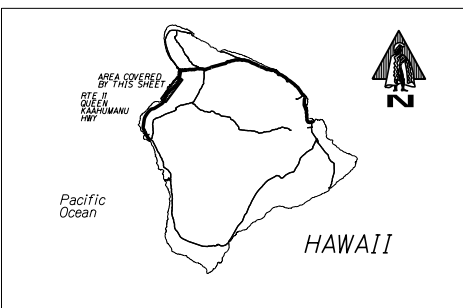
STATE

Project No., Type of Construction, and Year Constructed

NH-019-1(33), RESURFACING, 2005

Project No., Type of Construction, and Year Constructed

NH-019-1(31) 2004 GUARDRAIL AND SHOULDER IMPROVEMENT



Indicates Grass & / or
Physical Barrier on Median.

Road Diagram

* MP=Milepost Signage

SCALE: (In Miles) 2" = 1 mile

Divided Highway	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

70 71 72 73 74 75 76 77 78 79 80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

71 72 73 74 75 76 77 78 79 80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

72 73 74 75 76 77 78 79 80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

73 74 75 76 77 78 79 80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

74 75 76 77 78 79 80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

75 76 77 78 79 80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

76 77 78 79 80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

77 78 79 80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

78 79 80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

79 80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

80

6' AC/4' SEAL COAT

12' AC

0

PAINTED MEDIAN

0

12' AC

6' AC

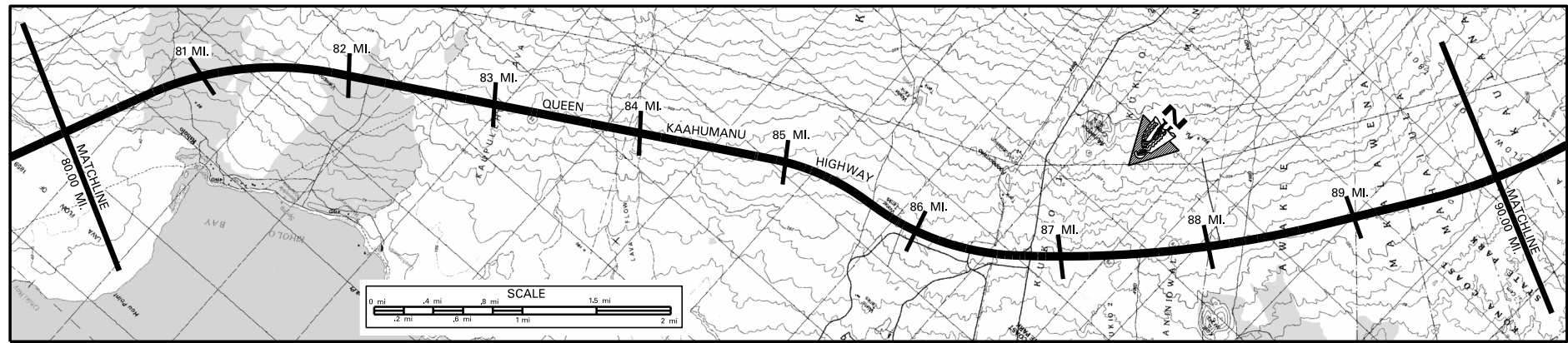
SCALE: (In Miles) 2" = 1 mile

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: 99.49 miles
a. Survey Length: 99.49 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 KIHLO LOOKOUT

19B (15.49 MILES)

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

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

Right of Way Fence: Type - Right and Left

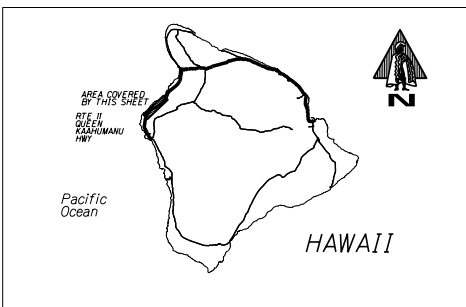
Control of Access: 1-None, 2-Partial, 3-Full

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

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed

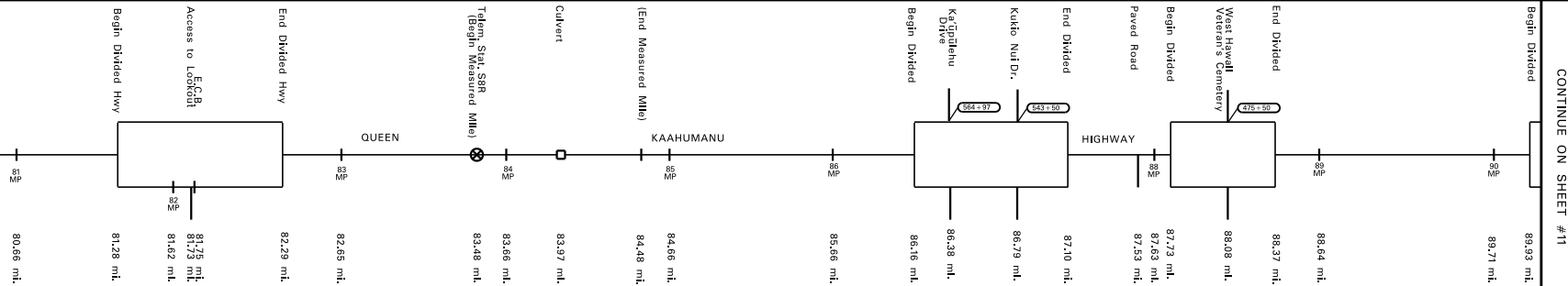
CONTINUE FROM SHEET #9



Indicates Grass & / or
Physical Barrier on Median.

Road Diagram

* MP= Milepost Signage



CONTINUE ON SHEET #11

SCALE: (In Miles) 2" = 1 mile

Divided Highway	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

80

81

82

83

84

85

86

87

88

89

90

Number of Traffic Lanes

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

All Turning Lanes = 12'

(Right Side)

All Turning Lanes = 12'

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

Sidewalk: Width and Type (Right and Left)

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

Protective Devices: Type, Location and Number

M/M - METAL RAILS ON METAL POST

Illumination: Type, Location and Number

Curves 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(0-4.5) B(4.5-2.45) 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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

SMALL URBAN (99998)

ROLLING (2)

55 MPH (2)

PRINCIPAL ARTERIAL (3)

ON NHS (1)

STP-019-1(23) SHOULDER IMPROVEMENT 1997

19 BC - 01 - 71 (PHASE III B GRADING)

1974

SCALE: (In Miles) 2" = 1 mile

80

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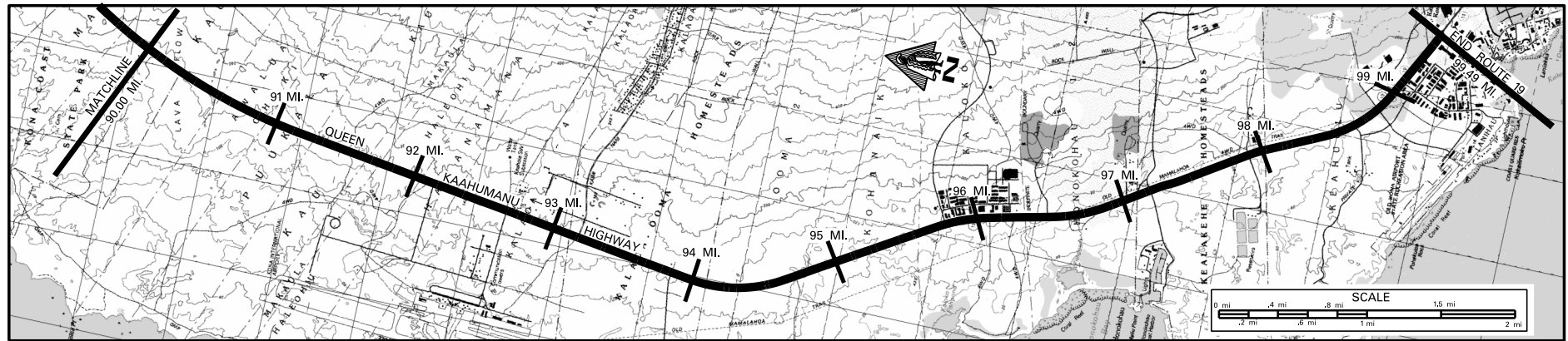
90

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: 99.49 miles
a. Survey Length: 99.49 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
	Vertical Clearance
Structure Over Road	Vertical Clearance
	Horizontal Clearance

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

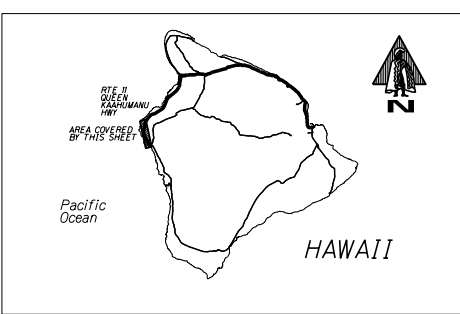
Right of Way Fence: Type - Right and Left

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

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

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed



Indicates Grass & / or
Physical Barrier on Median.

Road Diagram

* MP=Milepost Signage

SCALE: (In Miles) 2" = 1 mile

Divided Highway	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

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(0-4.5) B(4.5-2.45) 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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

90 91 92 93 94 95 96 97 98 99 100

19 A (2.30 MILES)

19 A (2.30 MILES)

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19 A (2.30 MILES)

ROAD INVENTORY
HAWAII RTE 130
KEA'AU-PAHOA RD.,
PAHOA-KALAPANA RD.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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

Total Designated Route Length: 25.32 MILES (a+b)
a. Existing Length: 25.32 MILES
b. Proposed Length: 0.00 MILES
Total Travel Way Length: 21.64 MILES (a+b, less c)
a. Existing Length: 21.64 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)

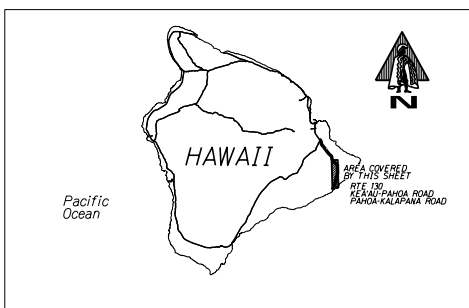
Right of Way Fence: Type - Right and Left SW - Stone Wall

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

Number of Traffic Lanes

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

(Right Side)

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

Sidewalk: Width and Type (Right and Left)

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

Protective Devices: Type, Location and Number

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development:

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

Speed: 1-Design, 2-Posted

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year)

HPMS Sections - AADT 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

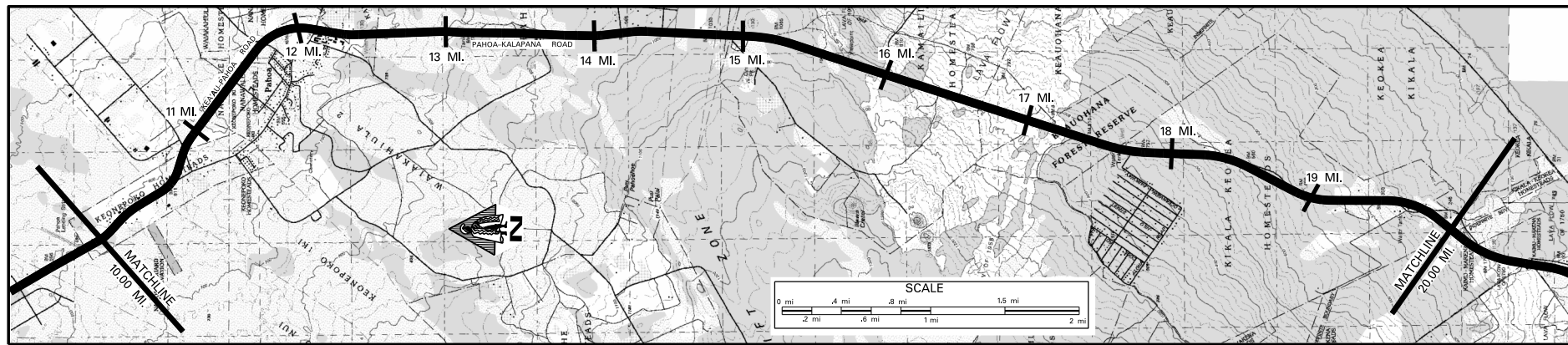
DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits



10 11 12 13 14 15 16 17 18 19 20

130 B (12.12 Mi.) 130 A (13.19 Mi.)

80' 50' - 110' 100' - 150'

Residential Area Chain Link Fence Clear 1000' Grass, Brush, Sugar Cane 10' from Pavement Trees & Brush

None State

(RS-0130(24), Widen & Resurf, 2003) 130A-01-92M Resurf, 1993 S-0130(12) 1971

STP-0130(25) RS - 0130(20), New Alignment, 1990 130A-01-92M, Resurf, 1993 S-0130(12) 1971

Begin Divided Hwy. 10 MP 10.68 mi. 10.66 mi. 10.64 mi. 10.62 mi. 10.60 mi. 10.58 mi. 10.56 mi. 10.54 mi. 10.52 mi. 10.50 mi. 10.48 mi. 10.46 mi. 10.44 mi. 10.42 mi. 10.40 mi. 10.38 mi. 10.36 mi. 10.34 mi. 10.32 mi. 10.30 mi. 10.28 mi. 10.26 mi. 10.24 mi. 10.22 mi. 10.20 mi. 10.18 mi. 10.16 mi. 10.14 mi. 10.12 mi. 10.10 mi. 10.08 mi. 10.06 mi. 10.04 mi. 10.02 mi. 10.00 mi. 9.98 mi. 9.96 mi. 9.94 mi. 9.92 mi. 9.90 mi. 9.88 mi. 9.86 mi. 9.84 mi. 9.82 mi. 9.80 mi. 9.78 mi. 9.76 mi. 9.74 mi. 9.72 mi. 9.70 mi. 9.68 mi. 9.66 mi. 9.64 mi. 9.62 mi. 9.60 mi. 9.58 mi. 9.56 mi. 9.54 mi. 9.52 mi. 9.50 mi. 9.48 mi. 9.46 mi. 9.44 mi. 9.42 mi. 9.40 mi. 9.38 mi. 9.36 mi. 9.34 mi. 9.32 mi. 9.30 mi. 9.28 mi. 9.26 mi. 9.24 mi. 9.22 mi. 9.20 mi. 9.18 mi. 9.16 mi. 9.14 mi. 9.12 mi. 9.10 mi. 9.08 mi. 9.06 mi. 9.04 mi. 9.02 mi. 9.00 mi. 8.98 mi. 8.96 mi. 8.94 mi. 8.92 mi. 8.90 mi. 8.88 mi. 8.86 mi. 8.84 mi. 8.82 mi. 8.80 mi. 8.78 mi. 8.76 mi. 8.74 mi. 8.72 mi. 8.70 mi. 8.68 mi. 8.66 mi. 8.64 mi. 8.62 mi. 8.60 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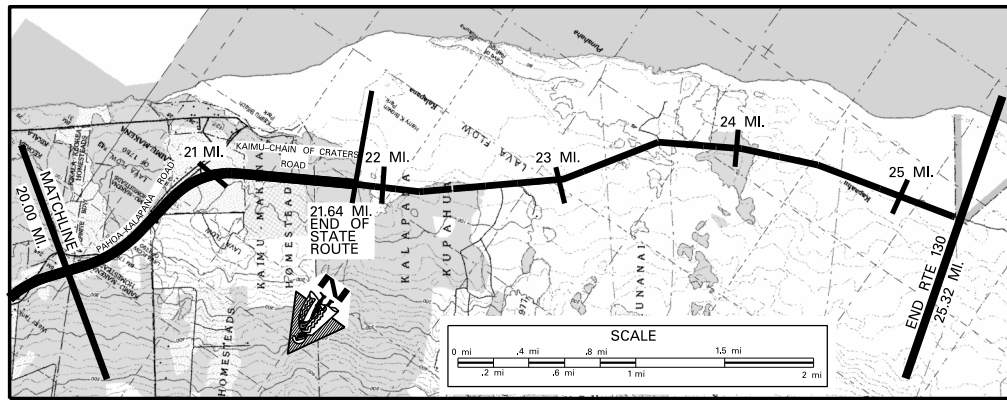
ROAD INVENTORY
HAWAII RTE 130
PAHOA-KALAPANA ROAD,
KAIMU-CHAIN OF CRATERS ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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

Total Designated Route Length: 25.32 MILES (a+b)
a. Existing Length: 25.32 MILES
b. Proposed Length: 0.00 MILES
Total Travel Way Length: 21.64 MILES (a+b, less c)
a. Existing Length: 21.64 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		20	21	22	23	24	25	26	27	28
Maintenance Control Sections : Length and Description						130 A (13.19 Mi.)	Req. 130 A Same as End Rte 130			
Structure Carrying Road	Bridges (Over 20'): Length, Type, Capacity and Year Constructed									
	Vertical Clearance									
	Horizontal Clearance									
	Vertical Clearance									
Structure Over Road	Vertical Clearance									
	Horizontal Clearance									
	Right of Way Width (min-max.) if varies	100' - 150'	125' - 580'	155'	120'	155'	150'	140'	120'	130'
	Available Right of Way Width (Needs Study)		Trees & Brush				Trees & Brush	Residential	Clear 1000' Lava Rock 10' from E.P.	
Right of Way Fence: Type - Right and Left										
Control of Access: 1=None, 2=Partial, 3=Full										
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)			None			None				
Project No., Type of Construction, and Year Constructed			130A-01-97M 1998 Resurf.							
Project No., Type of Construction, and Year Constructed			S-0130(12), 1971	ER - 9(3) New Alignment, 1980		ER - 9(3) New Alignment, 1980		130A - 01-79M PMS - 0100(8), Unit 3, Resurf. 1978		
Road Diagram * MP=Milepost Signage		ROUTE CONTINUED FROM SHEET #2								
SCALE: (In Miles) 2" = 1 mile		20	21	22	23	24	25	26	27	28
Divided Highway	Shoulder: Width and Type	10' Gravel	10' AC	10' AC		10' AC		6' AC		
	Pavement: Width and Type	24' AC	12' AC	24' AC		24' AC		22' AC		
	Shoulder: Width and Type	10' Gravel	0	10' AC		10' AC		6' AC		
	Median: Width and Type		0' - 10' Painted Median							
	Shoulder: Width and Type		0							
	Pavement: Width and Type		12' AC							
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)										
Protective Devices: Type, Location and Number										
Illumination: Type, Location and Number										
Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.85) E(13.85-28.62) F(<28.62))			A			A				
Superelevation (Range)										
Grades Class: +/- % (A(0-.45) B(.45-2.45) C(2.45-4.45) D(4.45-6.45) E(6.45-8.45) F(<8.45))		C	D	C	B	A				
Vertical Curve: Crest or Sag, Curve Limits										
Area and Development:										
Terrain: 1=Flat, 2=Rolling, 3=Mountainous										
Speed: 1=Design, 2=Posted			55 MPH - Minimum 40 MPH	2						
Intersection Control Devices: Type, Location and Cycle Timing										
Traffic Stations (Current Year)			871 0130 01982	21.64		871 0130 02150				
HPMS Sections - AADT 2013			1,521							
HPMS Sections - AADT 2012			1,500							
HPMS Sections - AADT 2011			1,581							
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										
SCALE: (In Miles) 2" = 1 mile		20	21	22	23	24	25	26	27	28

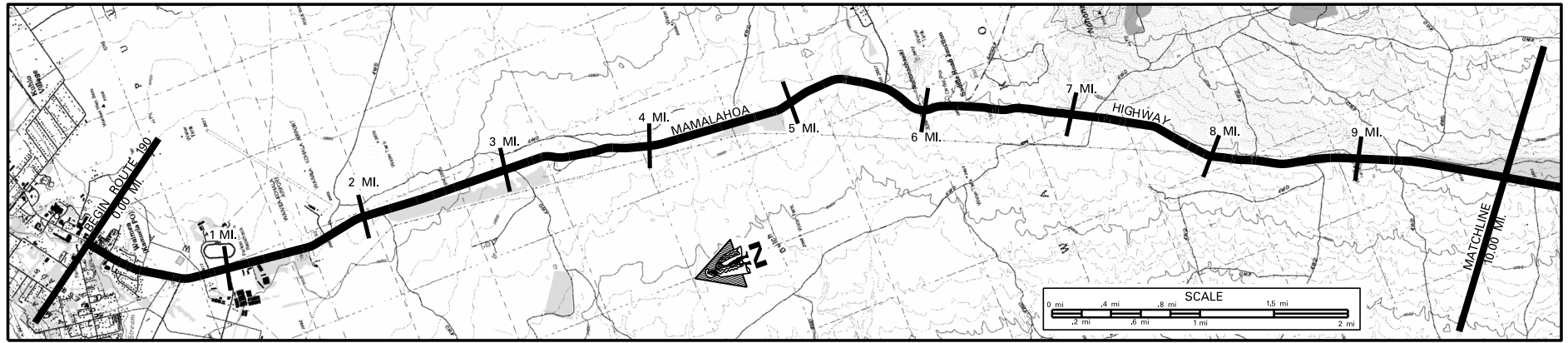
Date Released	Revised
November 2000	
7/06	D.B.
9/10	D.B.
2/11	D.B.
2/12	D.B.
9/12	E.P.J.
12/13	E.P.J.
7/14	D.B.

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

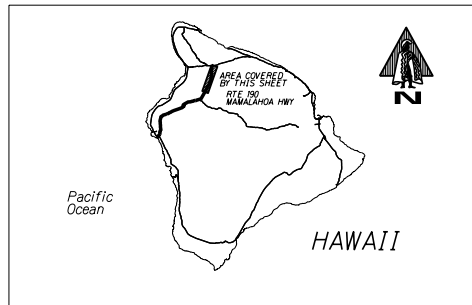
Total Route Length:	<u>38.97</u>	miles
a. Survey Length:	<u>38.97</u>	miles
b. Proposed Length:	<u>0.00</u>	miles
c. Other Length: *	<u>0.00</u>	miles



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

Structure Carrying Road	Bridges (Over 20'): Length, Type, Capacity and Year Constructed				SLAB 1930, H-15 21'	3 PLATE CULVERTS 1980, HS-20 37'				
	Vertical Clearance									
	Horizontal Clearance				24'	40'				
	Vertical Clearance									
Structure Over Road	Horizontal Clearance									
	Right of Way Width (min.-max.) if varies			70'	8/2'	100'-145'	8/2'	80'-90'	8/2'	100'-145'
	Available Right of Way Width (Needs Study)	RESIDENTIAL, FARMS, RANCHES	1/20'	1000' CLEAR - PASTURES - 10'-15' FROM PAVEMENT	8/2'	CLEAR 1000' - PASTURELAND W/ LA. ROCK AND SOME TREES				
	Right of Way Fence: Type - Right and Left	0.15'	1.20'	WIRE ON WOOD - 10' FROM PAVEMENT	8/2'	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	8/2'	PHASE 2 - COUNTY TO STATE		STATE			
Project No., Type of Construction, and Year Constructed					(RS-2190 (B), 1988 (R))					
Project No., Type of Construction, and Year Constructed		187F-000-19241, 2000 RESURF., IMPRV. (A.S.O. SEE RTE. 30)	8/2'	WDRC 12(1), 1947	1/20'	190E-01-98M, RESURF., 1999	8/2'	190DE-01-99M, 2000 (RESURF.)		



Road Diagram

* MP = Milepost Signage

E: (In Mlles) 2" = 1 mlie

[illegible]

SCALE: (In Miles) 2" = 1 mlie

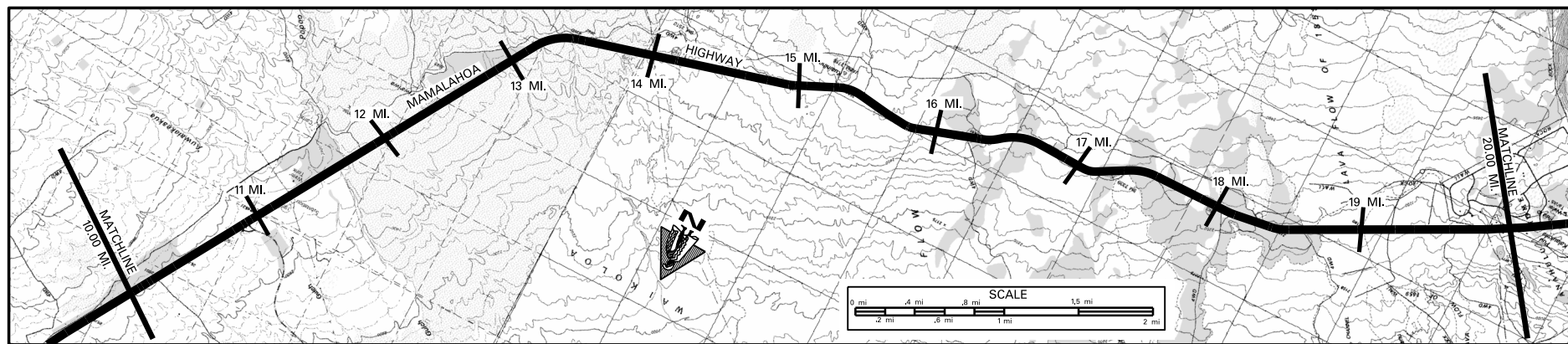
Sheet 1 of 4 HAWAII RTE 190

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: 38.97 miles
a. Survey Length: 38.97 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
	Vertical Clearance
Structure Over Road	Horizontal Clearance

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

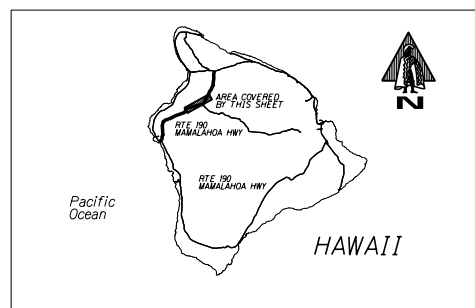
Right of Way Fence: Type - Right and Left

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

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

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed



Road Diagram

* MP= Milepost Signage

CONTINUED FROM SHEET #1

CONTINUED ON SHEET #3

SCALE: (In Miles) 2" = 1 mile

Divided Highway	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

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(0-4.5) B(4.5-2.45) 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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

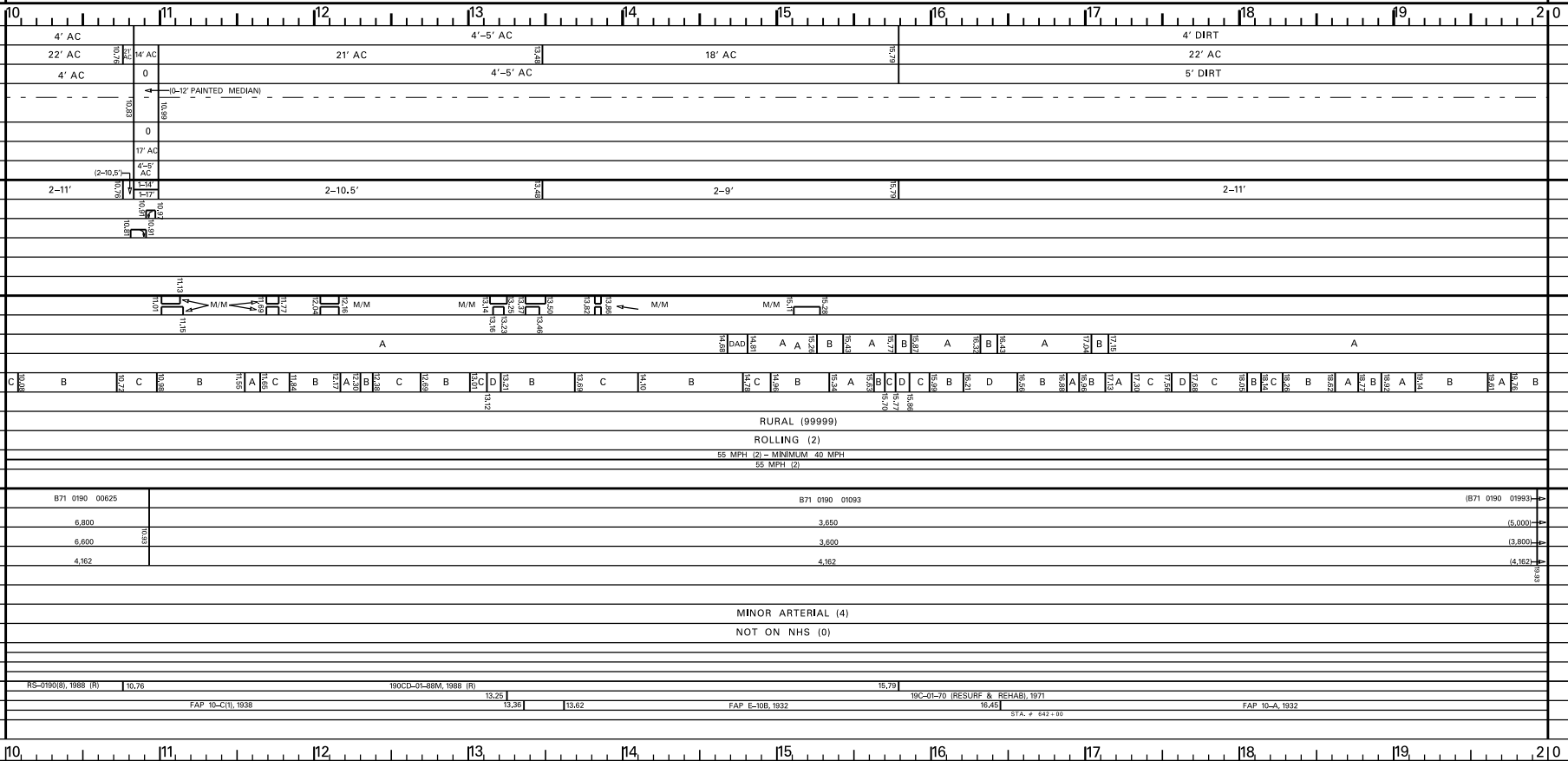
DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

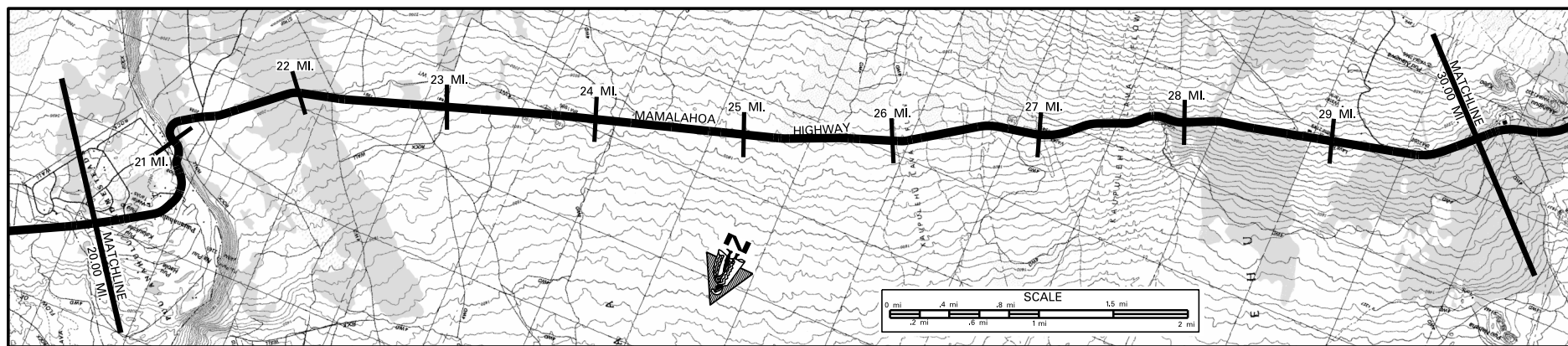


SCALE: (In Miles) 2" = 1 mile

Date Released	Revised
OCT. 05, 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.

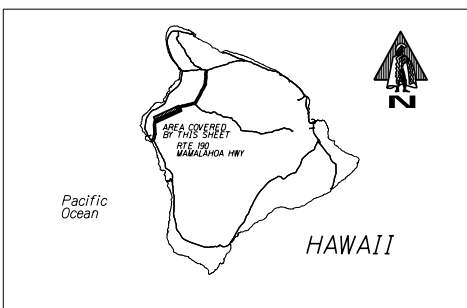
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FEDERAL HIGHWAY ADMINISTRATION

0.00 miles

[illegible]

Structure Carrying Road	Bridges (Over 20'): Length, Type, Capacity and Year Constructed					
	Vertical Clearance	Horizontal Clearance				
Roadway 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 16'-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

* MP= Milipost Signage

SCALE: (In Miles) 2" = 1 mle

Divided Highway	Unaltered	Shoulder: Width and Type	4' DIRT	3' AC	7' AC	7' GRAVEL
		Pavement: Width and Type	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'
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Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)		
(Right Side)		

Frontage Road: No. of Lanes, and Width (Right and Left)		
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Sidewalk: Width and Type (Right and Left)		
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[illegible]

CRIM WALL	28,10	28,15	28,20	28,25	28,30	28,35	28,40	28,45	28,50	28,55	28,60	28,65	28,70	28,75	28,80	28,85	28,90	28,95	29,00	29,05	29,10	29,15	29,20	29,25	29,30	29,35	29,40	29,45	29,50	29,55	29,60	29,65	29,70	29,75	29,80	29,85	29,90	29,95	30,00	30,05	30,10	30,15	30,20	30,25	30,30	30,35	30,40	30,45	30,50	30,55	30,60	30,65	30,70	30,75	30,80	30,85	30,90	30,95	31,00	31,05	31,10	31,15	31,20	31,25	31,30	31,35	31,40	31,45	31,50	31,55	31,60	31,65	31,70	31,75	31,80	31,85	31,90	31,95	32,00	32,05	32,10	32,15	32,20	32,25	32,30	32,35	32,40	32,45	32,50	32,55	32,60	32,65	32,70	32,75	32,80	32,85	32,90	32,95	33,00	33,05	33,10	33,15	33,20	33,25	33,30	33,35	33,40	33,45	33,50	33,55	33,60	33,65	33,70	33,75	33,80	33,85	33,90	33,95	34,00	34,05	34,10	34,15	34,20	34,25	34,30	34,35	34,40	34,45	34,50	34,55	34,60	34,65	34,70	34,75	34,80	34,85	34,90	34,95	35,00	35,05	35,10	35,15	35,20	35,25	35,30	35,35	35,40	35,45	35,50	35,55	35,60	35,65	35,70	35,75	35,80	35,85	35,90	35,95	36,00	36,05	36,10	36,15	36,20	36,25	36,30	36,35	36,40	36,45	36,50	36,55	36,60	36,65	36,70	36,75	36,80	36,85	36,90	36,95	37,00	37,05	37,10	37,15	37,20	37,25	37,30	37,35	37,40	37,45	37,50	37,55	37,60	37,65	37,70	37,75	37,80	37,85	37,90	37,95	38,00	38,05	38,10	38,15	38,20	38,25	38,30	38,35	38,40	38,45	38,50	38,55	38,60	38,65	38,70	38,75	38,80	38,85	38,90	38,95	39,00	39,05	39,10	39,15	39,20	39,25	39,30	39,35	39,40	39,45	39,50	39,55	39,60	39,65	39,70	39,75	39,80	39,85	39,90	39,95	40,00	40,05	40,10	40,15	40,20	40,25	40,30	40,35	40,40	40,45	40,50	40,55	40,60	40,65	40,70	40,75	40,80	40,85	40,90	40,95	41,00	41,05	41,10	41,15	41,20	41,25	41,30	41,35	41,40	41,45	41,50	41,55	41,60	41,65	41,70	41,75	41,80	41,85	41,90	41,95	42,00	42,05	42,10	42,15	42,20	42,25	42,30	42,35	42,40	42,45	42,50	42,55	42,60	42,65	42,70	42,75	42,80	42,85	42,90	42,95	43,00	43,05	43,10	43,15	43,20	43,25	43,30	43,35	43,40	43,45	43,50	43,55	43,60	43,65	43,70	43,75	43,80	43,85	43,90	43,95	44,00	44,05	44,10	44,15	44,20	44,25	44,30	44,35	44,40	44,45	44,50	44,55	44,60	44,65	44,70	44,75	44,80	44,85	44,90	44,95	45,00	45,05	45,10	45,15	45,20	45,25	45,30	45,35	45,40	45,45	45,50	45,55	45,60	45,65	45,70	45,75	45,80	45,85	45,90	45,95	46,00	46,05	46,10	46,15	46,20	46,25	46,30	46,35	46,40	46,45	46,50	46,55	46,60</
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[illegible]

Curves Class: + /- Denree (Δ(1-3 45) R(3 45-5 44) C(5 44-8 48) D(8 48-13 85) F(13 85-28 62) F(1-28 62)	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P	Q	R	S	T	U	V	W	X	Y	Z	aa	ab	ac	ad	ae	af	ag	ah	ai	aj	ak	al	am	an	ao	ap	aq	ar	as	at	au	av	aw	ax	ay	az	ba	bb	bc	bd	be	bf	bg	bh	bi	bj	bk	bl	bm	bn	bo	bp	bq	br	bs	bt	bu	bv	bw	bx	by	bz	ca	cb	cc	cd	ce	cf	cg	ch	ci	cj	ck	cl	cm	cn	co	cp	cq	cr	cs	ct	cu	cv	cw	cx	cy	cz	da	db	dc	dd	de	df	dg	dh	di	dj	dk	dl	dm	dn	do	dp	dq	dr	ds	dt	du	dv	dw	dx	dy	dz	ea	eb	ec	ed	ee	ef	eg	eh	ei	ej	ek	el	em	en	eo	ep	eq	er	es	et	eu	ev	ew	ex	ey	ez	fa	fb	fc	fd	fe	ff	fg	fh	fi	fj	fk	fl	fm	fn	fo	fp	fq	fr	fs	ft	fu	fv	fw	fx	fy	fz	ga	gb	gc	gd	ge	gf	gg	gh	gi	gj	gk	gl	gm	gn	go	gp	gq	gr	gs	gt	gu	gv	gw	gx	gy	gz	ha	hb	hc	hd	he	hf	hg	hh	hi	hj	hk	hl	hm	hn	ho	hp	hq	hr	hs	ht	hu	hv	hw	hx	hy	hz	ia	ib	ic	id	ie	if	ig	ih	ii	ij	ik	il	im	in	io	ip	iq	ir	is	it	iu	iv	iw	ix	iy	iz	ja	jb	jc	jd	je	jf	jj	jh	ji	jj	jk	jl	jm	jn	jo	jp	jq	jr	js	jt	ju	jv	jw	jx	ka	kb	kc	kd	ke	kf	kg	kh	ki	kj	kk	kl	km	kn	ko	kp	kq	kr	ks	kt	ku	kv	kw	kx	ky	kz	la	lb	lc	ld	le	lf	lg	lh	li	lj	lk	ll	lm	ln	lo	lp	lq	lr	ls	lt	lu	lv	lw	lx	ly	lz	ma	mb	mc	md	me	mf	mg	mh	mi	mj	mk	ml	mm	mn	mo	mp	mq	mr	ms	mt	mu	mv	mw	mx	my	mz	na	nb	nc	nd	ne	nf	ng	nh	ni	nj	nk	nl	nm	nn	no	np	nq	nr	ns	nt	nu	nv	nw	nx	ny	nz	oa	ob	oc	od	oe	of	og	oh	oi	oj	ok	ol	om	on	oo	op	oq	or	os	ot	ou	ov	ow	ox	oy	oz	pa	pb	pc	pd	pe	pf	pg	ph	pi	pj	pk	pl	pm	pn	po	pp	pq	pr	ps	pt	pu	pv	pw	px	py	pz	qa	qb	qc	qd	qe	qf	qg	qh	qi	qj	qk	ql	qm	qn	qo	qp	qq	qr	qs	qt	qu	qv	qw	qx	qy	qz	ra	rb	rc	rd	re	rf	rg	rh	ri	rj	rk	rl	rm	rn	ro	rp	rq	rr	rs	rt	ru	rv	rw	rx	ry	rz	sa	sb	sc	sd	se	sf	sg	sh	si	sj	sk	sl	sm	sn	so	sp	sq	sr	ss	st	su	sv	sw	sx	sy	sz	ta	tb	tc	td	te	tf	tg	th	ti	tj	tk	tl	tm	tn	to	tp	tq	tr	ts	tt	tu	tv	tw	tx	ty	tz	ua	ub	uc	ud	ue	uf	ug	uh	ui	uj	uk	ul	um	un	uo	up	uq	ur	us	ut	uu	uv	uw	ux	uy	uz	va	vb	vc
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Curves Class: +/- Degree	A[0-3.43]	B[3.43-5.44]	C[5.44-6.46]	D[6.46-15.65]	E[15.65-26.62]	F[26.62-52.62]	G[52.62-102.62]	H[102.62-152.62]	I[152.62-202.62]	J[202.62-252.62]	K[252.62-302.62]	L[302.62-352.62]	M[352.62-402.62]	N[402.62-452.62]	O[452.62-502.62]	P[502.62-552.62]	Q[552.62-602.62]	R[602.62-652.62]	S[652.62-702.62]	T[702.62-752.62]	U[752.62-802.62]	V[802.62-852.62]	W[852.62-902.62]	X[902.62-952.62]	Y[952.62-1002.62]	Z[1002.62-1052.62]	AA[1052.62-1102.62]	AB[1102.62-1152.62]	AC[1152.62-1202.62]	AD[1202.62-1252.62]	AE[1252.62-1302.62]	AF[1302.62-1352.62]	AG[1352.62-1402.62]	AH[1402.62-1452.62]	AI[1452.62-1502.62]	AJ[1502.62-1552.62]	AK[1552.62-1602.62]	AL[1602.62-1652.62]	AM[1652.62-1702.62]	AN[1702.62-1752.62]	AO[1752.62-1802.62]	AP[1802.62-1852.62]	AQ[1852.62-1902.62]	AR[1902.62-1952.62]	AS[1952.62-2002.62]	AT[2002.62-2052.62]	AU[2052.62-2102.62]	AV[2102.62-2152.62]	AW[2152.62-2202.62]	AX[2202.62-2252.62]	AY[2252.62-2302.62]	AZ[2302.62-2352.62]	BA[2352.62-2402.62]	BB[2402.62-2452.62]	BC[2452.62-2502.62]	BD[2502.62-2552.62]	BE[2552.62-2602.62]	BF[2602.62-2652.62]	BG[2652.62-2702.62]	BH[2702.62-2752.62]	BI[2752.62-2802.62]	BJ[2802.62-2852.62]	BK[2852.62-2902.62]	BL[2902.62-2952.62]	BM[2952.62-3002.62]	BN[3002.62-3052.62]	BO[3052.62-3102.62]	BP[3102.62-3152.62]	BQ[3152.62-3202.62]	BR[3202.62-3252.62]	BS[3252.62-3302.62]	BT[3302.62-3352.62]	BU[3352.62-3402.62]	BV[3402.62-3452.62]	BW[3452.62-3502.62]	BX[3502.62-3552.62]	BY[3552.62-3602.62]	BZ[3602.62-3652.62]	CA[3652.62-3702.62]	CB[3702.62-3752.62]	CC[3752.62-3802.62]	CD[3802.62-3852.62]	CE[3852.62-3902.62]	CF[3902.62-3952.62]	CG[3952.62-4002.62]	CH[4002.62-4052.62]	CI[4052.62-4102.62]	CJ[4102.62-4152.62]	CK[4152.62-4202.62]	CL[4202.62-4252.62]	CM[4252.62-4302.62]	CN[4302.62-4352.62]	CO[4352.62-4402.62]	CP[4402.62-4452.62]	CQ[4452.62-4502.62]	CR[4502.62-4552.62]	CS[4552.62-4602.62]	CT[4602.62-4652.62]	CU[4652.62-4702.62]	CV[4702.62-4752.62]	CW[4752.62-4802.62]	CX[4802.62-4852.62]	CY[4852.62-4902.62]	CZ[4902.62-4952.62]	DA[4952.62-5002.62]	DB[5002.62-5052.62]	DC[5052.62-5102.62]	DD[5102.62-5152.62]	DE[5152.62-5202.62]	DF[5202.62-5252.62]	DG[5252.62-5302.62]	DH[5302.62-5352.62]	DI[5352.62-5402.62]	DJ[5402.62-5452.62]	DK[5452.62-5502.62]	DL[5502.62-5552.62]	DM[5552.62-5602.62]	DN[5602.62-5652.62]	DO[5652.62-5702.62]	DP[5702.62-5752.62]	DQ[5752.62-5802.62]	DR[5802.62-5852.62]	DS[5852.62-5902.62]	DT[5902.62-5952.62]	DU[5952.62-6002.62]	DV[6002.62-6052.62]	DW[6052.62-6102.62]	DX[6102.62-6152.62]	DY[6152.62-6202.62]	DZ[6202.62-6252.62]	EA[6252.62-6302.62]	EB[6302.62-6352.62]	EC[6352.62-6402.62]	ED[6402.62-6452.62]	EE[6452.62-6502.62]	EF[6502.62-6552.62]	EG[6552.62-6602.62]	EH[6602.62-6652.62]	EI[6652.62-6702.62]	EJ[6702.62-6752.62]	EK[6752.62-6802.62]	EL[6802.62-6852.62]	EM[6852.62-6902.62]	EN[6902.62-6952.62]	EO[6952.62-7002.62]	EP[7002.62-7052.62]	EQ[7052.62-7102.62]	ER[7102.62-7152.62]	ES[7152.62-7202.62]	ET[7202.62-7252.62]	EU[7252.62-7302.62]	EV[7302.62-7352.62]	EW[7352.62-7402.62]	EX[7402.62-7452.62]	EY[7452.62-7502.62]	EZ[7502.62-7552.62]	FA[7552.62-7602.62]	FB[7602.62-7652.62]	FC[7652.62-7702.62]	FD[7702.62-7752.62]	FE[7752.62-7802.62]	FF[7802.62-7852.62]	FG[7852.62-7902.62]	FH[7902.62-7952.62]	FI[7952.62-8002.62]	FJ[8002.62-8052.62]	FK[8052.62-8102.62]	FL[8102.62-8152.62]	FM[8152.62-8202.62]	FN[8202.62-8252.62]	FO[8252.62-8302.62]	FP[8302.62-8352.62]	FQ[8352.62-8402.62]	FR[8402.62-8452.62]	FS[8452.62-8502.62]	FT[8502.62-8552.62]	FU[8552.62-8602.62]	FV[8602.62-8652.62]	FW[8652.62-8702.62]	FX[8702.62-8752.62]	FY[8752.62-8802.62]	FZ
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[illegible][illegible][illegible]

Area and Development:		RURAL (99999)	
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Terrain: 1-Flat, 2-Rolling, 3-Mountainous	(55 MPH (2) (MINIMUM 40 MPH))	ROLLING (2)
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[illegible][illegible][illegible]

HPMS Sections – AADT 2013		5,000	
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HPMS Sections - AADT 2012		3,800	
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HPMS Sections - AADT 2011		4.162	
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DOD Sections			
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Census Tracts		
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Functional Classification		MINOR ARTERIAL (4)
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National Highway System (NHS)		NOT ON NHS (0)	
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Previous Projects:	Project No.	Date	and Limits
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[illegible][illegible][illegible][illegible]

		20	24	22	22	24	25	26	27	28	29	
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SCALE: (In Miles) 2" = 1 mile

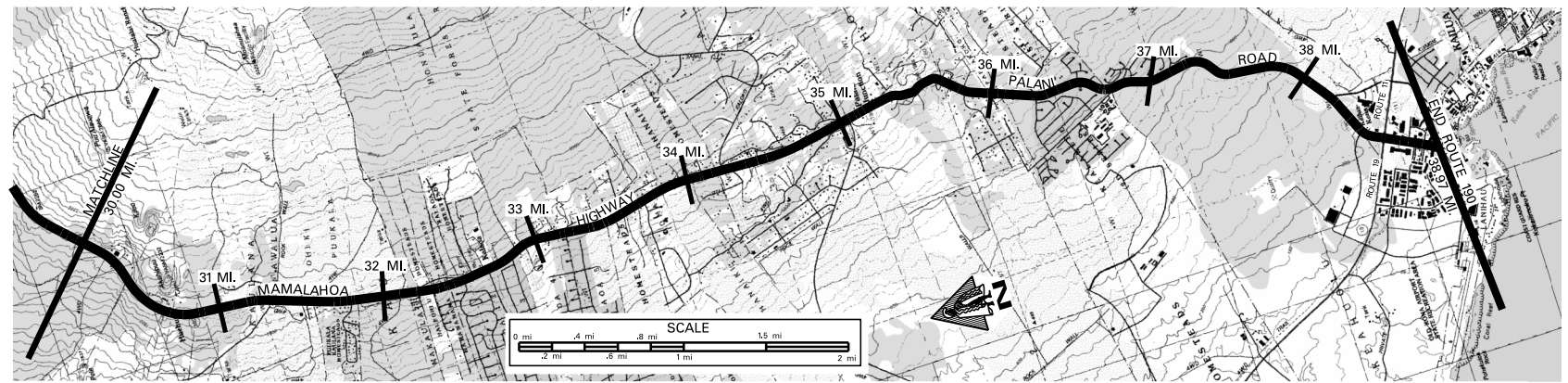
SCALE: (In Miles) 2" = 1 mle

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: 38.97 miles
a. Survey Length: 38.97 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
	Vertical Clearance
Structure Over Road	Vertical Clearance
	Horizontal Clearance

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

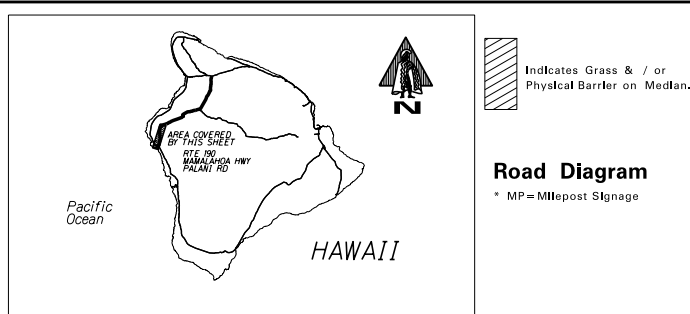
Right of Way Fence: Type - Right and Left

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



SCALE: (In Miles) 2" = 1 mile

Divided Highway	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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mile

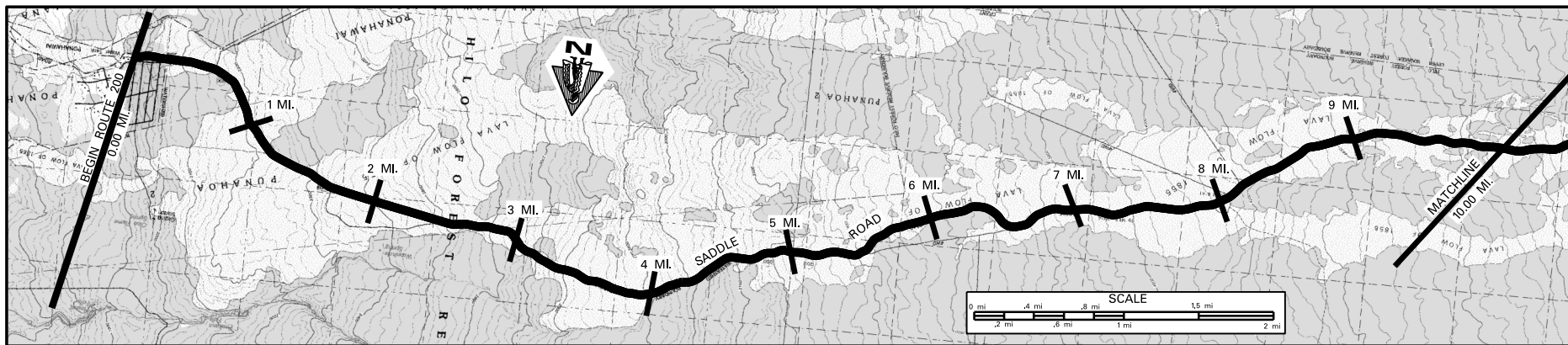
30	31	32	33	34	35	36	37	38	39	40
190 B (13.91 MI.)										
BEGIN 190 B ON MAMALAHOA HWY AT THE CENTERLINE OF FASC 180										
80'-217'										
BRUSH, GRASS & LARGE TREES										
NONE										
STATE										
COUNTY										
EP-15(22) EMEC, ROCKFALL REPAIR, 2011										
STP-0100(31) - GUARDRAIL IMPRV, 1994										
190B-01-91M, (R), 1992										
190B-02-91, (IMPRV), 1993										
190B-01-91M, (R), 1992										
2000' ELEV. SIGN										
HUEHUE RANCH ROAD										
ROAD (R)										
MAKALEI GOLF COURSE (L)										
PUUKALA ST.										
ROAD										
HUEHUE RANCH ROAD										
ROAD (R)										
MAKALEI GOLF COURSE (L)										
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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: 43.20 miles
a. Survey Length: 43.20 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
	Vertical 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)

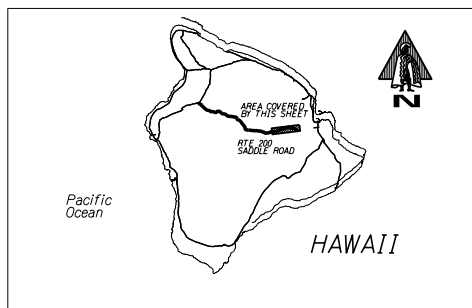
VARIES 50'-150'
BUSHES, GRASS & TREES
NONE
NONE
COUNTY

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed

RS-0200(4), COUNTY PROJECT, 1987 (R)

RS-0200(3), COUNTY PROJECT, 1987 (R)



Road Diagram
* MP= Milepost Signage

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

TRIG. STATION
UA NAHELE ST.

Dirt Road

0.17 MI.
0.18 MI.

0.33 MI.

1.16 MI.

2.24 MI.

3.35 MI.

3.89 MI.

4.89 MI.

5.89 MI.

6.89 MI.

7.89 MI.

8.89 MI.

9.89 MI.

SADDLE ROAD

CONTINUED ON SHEET #2

SCALE: (In Miles) 2" = 1 mile

Divided Highway	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

2'-4" GRASS
20' BST
2'-4" GRASS

4' AC
4' AC
4' AC

10' DIRT
10' DIRT
10' DIRT

3.60
3.60
3.60

4' AC
4' AC
4' AC

10' DIRT
10' DIRT
10' DIRT

3.60
3.60
3.60

4' AC
4' AC
4' AC

2' AC/10' DIRT
2' AC/10' DIRT
2' AC/10' DIRT

5.00
5.00
5.00

10' DIRT
10' DIRT
10' DIRT

5.00
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Number of Traffic Lanes

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

2-10'

2-11'

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

Sidewalk: Width and Type (Right and Left)

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

Protective Devices: Type, Location and Number

Illumination: Type, Location and Number

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

Superelevation (Range)

Grades Class: +/- % (A(0-4.5) B(4.5-2.45) 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

(NOT POSTED)

35 MPH (2)

45 MPH (2)

55 MPH (2)

Traffic Stations (Current Year)

HPMS Sections - AADT 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

871 0200 00000

2,500

1,626

1,500

871 0200 00113

3,231

3,200

985

MINOR ARTERIAL (4)

NOT ON NHS (0)

SCALE: (In Miles) 2" = 1 mile

ROAD INVENTORY
HAWAII RTE 200
SADDLE ROAD

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

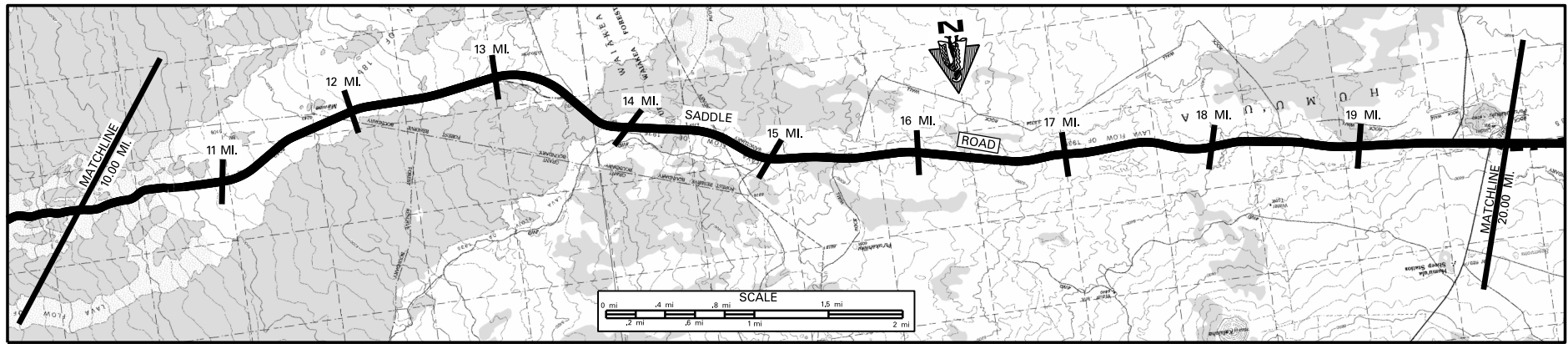
PREPARED BY THE
HIGHWAYS PLANNING BRANCH
IN COOPERATION WITH THE
U.S. DEPARTMENT OF TRANSPORTATION
FEDERAL HIGHWAY ADMINISTRATION

Total Route Length: 43.20 miles

a. Survey Length: 43.20 miles

b. Proposed Length: 0.00 miles

c. Other Length: * 0.00 miles



SCALE: (In Miles) $2'' = 1 \text{ mile}$

Maintenance Control Sections : Length and Description	
1	1000
2	1000
3	1000
4	1000
5	1000
6	1000
7	1000
8	1000
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90	1000
91	1000
92	1000
93	1000
94	1000
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99	1000
100	1000

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

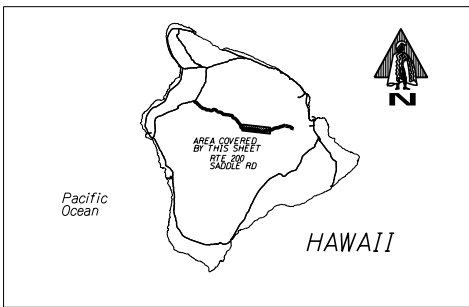
Available Right of Way Width (Needs Study)

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	



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	
	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

Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)	
1	1
2	2
3	3
4	4
5	5
6	6
7	7
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100	100

(Right Side)

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

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

Protective Devices: Type, Location and Number

Illumination: Type, Location and Number

Curves Class: +/- Degree (A(0-3.45) B(3.45-6.69) C(6.69-9.9) D(9.9-13.1) E(13.1-16.3) F(16.3-19.5) G(19.5-22.7) H(22.7-25.9) I(25.9-29.1) J(29.1-32.3) K(32.3-35.5) L(35.5-38.7) M(38.7-41.9) N(41.9-45.1) O(45.1-48.3) P(48.3-51.5) Q(51.5-54.7) R(54.7-57.9) S(57.9-61.1) T(61.1-64.3) U(64.3-67.5) V(67.5-70.7) W(70.7-73.9) X(73.9-77.1) Y(77.1-80.3) Z(80.3-83.5) AA(83.5-86.7) AB(86.7-90.0) AC(90.0-93.3) AD(93.3-96.6) AE(96.6-100.0) AF(100.0-103.3) AG(103.3-106.6) AH(106.6-110.0) AI(110.0-113.3) AJ(113.3-116.6) AK(116.6-120.0) AL(120.0-123.3) AM(123.3-126.6) AN(126.6-130.0) AO(130.0-133.3) AP(133.3-136.6) AQ(136.6-140.0) AR(140.0-143.3) AS(143.3-146.6) AT(146.6-150.0) AU(150.0-153.3) AV(153.3-156.6) AW(156.6-160.0) AX(160.0-163.3) AY(163.3-166.6) AZ(166.6-170.0) BA(170.0-173.3) BB(173.3-176.6) BC(176.6-180.0) BD(180.0-183.3) BE(183.3-186.6) BF(186.6-190.0) BG(190.0-193.3) BH(193.3-196.6) BI(196.6-200.0) BJ(200.0-203.3) BK(203.3-206.6) BL(206.6-210.0) BM(210.0-213.3) BN(213.3-216.6) BO(216.6-220.0) BP(220.0-223.3) BQ(223.3-226.6) BR(226.6-230.0) BS(230.0-233.3) BT(233.3-236.6) BU(236.6-240.0) BV(240.0-243.3) BW(243.3-246.6) BX(246.6-250.0) BY(250.0-253.3) BZ(253.3-256.6) CA(256.6-260.0) CB(260.0-263.3) CC(263.3-266.6) CD(266.6-270.0) CE(270.0-273.3) CF(273.3-276.6) CG(276.6-280.0) CH(280.0-283.3) CI(283.3-286.6) CJ(286.6-290.0) CK(290.0-293.3) CL(293.3-296.6) CM(296.6-300.0) CN(300.0-303.3) CO(303.3-306.6) CP(306.6-310.0) CQ(310.0-313.3) CR(313.3-316.6) CS(316.6-320.0) CT(320.0-323.3) CU(323.3-326.6) CV(326.6-330.0) CW(330.0-333.3) CX(333.3-336.6) CY(336.6-340.0) CZ(340.0-343.3) DA(343.3-346.6) DB(346.6-350.0) DC(350.0-353.3) DD(353.3-356.6) DE(356.6-360.0) DF(360.0-363.3) DG(363.3-366.6) DH(366.6-370.0) DI(370.0-373.3) DJ(373.3-376.6) DK(376.6-380.0) DL(380.0-383.3) DM(383.3-386.6) DN(386.6-390.0) DO(390.0-393.3) DP(393.3-396.6) DQ(396.6-400.0) DR(400.0-403.3) DS(403.3-406.6) DT(406.6-410.0) DU(410.0-413.3) DV(413.3-416.6) DW(416.6-420.0) DX(420.0-423.3) DY(423.3-426.6) DZ(426.6-430.0) EA(430.0-433.3) EB(433.3-436.6) EC(436.6-440.0) ED(440.0-443.3) EE(443.3-446.6) EF(446.6-450.0) EG(450.0-453.3) EH(453.3-456.6) EI(456.6-460.0) EJ(460.0-463.3) EK(463.3-466.6) EL(466.6-470.0) EM(470.0-473.3) EN(473.3-476.6) EO(476.6-480.0) EP(480.0-483.3) EQ(483.3-486.6) ER(486.6-490.0) ES(490.0-493.3) ET(493.3-496.6) EU(496.6-500.0) EV(500.0-503.3) EW(503.3-506.6) EX(506.6-510.0) EY(510.0-513.3) EZ(513.3-516.6) FA(516.6-520.0) FB(520.0-523.3) FC(523.3-526.6) FD(526.6-530.0) FE(530.0-533.3) FF(533.3-536.6) FG(536.6-540.0) FH(540.0-543.3) FI(543.3-546.6) FJ(546.6-550.0) FK(550.0-553.3) FL(553.3-556.6) FM(556.6-560.0) FN(560.0-563.3) FO(563.3-566.6) FP(566.6-570.0) FQ(570.0-573.3) FR(573.3-576.6) FS(576.6-580.0) FT(580.0-583.3) FU(583.3-586.6) FV(586.6-590.0) FW(590.0-593.3) FX(593.3-596.6) FY(596.6-600.0) FZ(600.0-603.3) GA(603.3-606.6) GB(606.6-610.0) GC(610.0-613.3) GD(613.3-616.6) GE(616.6-620.0) GF(620.0-623.3) GG(623.3-626.6) GH(626.6-630.0) GI(630.0-633.3) GJ(633.3-636.6) GK(636.6-640.0) GL(640.0-643.3) GM(643.3-646.6) GN(646.6-650.0) GO(650.0-653.3) GP(653.3-656.6) GQ(656.6-660.0) GR(660.0-663.3) GS(663.3-666.6) GT(666.6-670.0) GU(670.0-673.3) GV(673.3-676.6) GW(676.6-680.0) GX(680.0-683.3) GY(683.3-686.6) GZ(686.6-690.0) HA(690.0-693.3) HB(693.3-696.6) HC(696.6-700.0) HD(700.0-703.3) HE(703.3-706.6) HF(706.6-710.0) HG(710.0-713.3) HH(713.3-716.6) HI(716.6-720.0) HJ(720.0-723.3) HK(723.3-726.6) HL(726.6-730.0) HM(730.0-733.3) HN(733.3-736.6) HO(736.6-740.0) HP(740.0-743.3) HQ(743.3-746.6) HR(746.6-750.0) HS(750.0-753.3) HT(753.3-756.6) HU(756.6-760.0) HV(760.0-763.3) HW(763.3-766.6) HX(766.6-770.0) HY(770.0-773.3) HZ(773.3-776.6) IA(776.6-780.0) IB(780.0-783.3) IC(783.3-786.6) ID(786.6-790.0) IE(790.0-793.3) IF(793.3-796.6) IG(796.6-800.0) IH(800.0-803.3) II(803.3-806.6) IJ(806.6-810.0) IK(810.0-813.3) IL(813.3-816.6) IM(816.6-820.0) IN(820.0-823.3) IO(823.3-826.6) IP(826.6-830.0) IQ(830.0-833.3) IR(833.3-836.6) IS(836.6-840.0) IT(840.0-843.3) IU(843.3-846.6) IV(846.6-850.0) IW(850.0-853.3) IX(853.3-856.6) IY(856.6-860.0) IZ(860.0-863.3) JA(863.3-866.6) JB(866.6-870.0) JC(870.0-873.3) JD(873.3-876.6) JE(876.6-880.0) JF(880.0-883.3) JG(883.3-886.6) JH(886.6-890.0) JI(890.0-893.3) JJ(893.3-896.6) JK(896.6-900.0) JL(900.0-903.3) JM(903.3-906.6) JN(906.6-910.0) JO(910.0-913.3) JP(913.3-916.6) JQ(916.6-920.0) JR(920.0-923.3) JS(923.3-926.6) JT(926.6-930.0) JU(930.0-933.3) JV(933.3-936.6) JW(936.6-940.0) JX(940.0-943.3) JY(943.3-946.6) JZ(946.6-950.0) KA(950.0-953.3) KB(953.3-956.6) KC(956.6-960.0) KD(960.0-963.3) KE(963.3-966.6) KF(966.6-970.0) KG(970.0-973.3) KH(973.3-976.6) KI(976.6-9

Superelevation (Range)
0.00 to 0.05
0.05 to 0.10
0.10 to 0.15
0.15 to 0.20
0.20 to 0.25
0.25 to 0.30
0.30 to 0.35
0.35 to 0.40
0.40 to 0.45
0.45 to 0.50
0.50 to 0.55
0.55 to 0.60
0.60 to 0.65
0.65 to 0.70
0.70 to 0.75
0.75 to 0.80
0.80 to 0.85
0.85 to 0.90
0.90 to 0.95
0.95 to 1.00
1.00 to 1.05
1.05 to 1.10
1.10 to 1.15
1.15 to 1.20
1.20 to 1.25
1.25 to 1.30
1.30 to 1.35
1.35 to 1.40
1.40 to 1.45
1.45 to 1.50
1.50 to 1.55
1.55 to 1.60
1.60 to 1.65
1.65 to 1.70
1.70 to 1.75
1.75 to 1.80
1.80 to 1.85
1.85 to 1.90
1.90 to 1.95
1.95 to 2.00
2.00 to 2.05
2.05 to 2.10
2.10 to 2.15
2.15 to 2.20
2.20 to 2.25
2.25 to 2.30
2.30 to 2.35
2.35 to 2.40
2.40 to 2.45
2.45 to 2.50
2.50 to 2.55
2.55 to 2.60
2.60 to 2.65
2.65 to 2.70
2.70 to 2.75
2.75 to 2.80
2.80 to 2.85
2.85 to 2.90
2.90 to 2.95
2.95 to 3.00
3.00 to 3.05
3.05 to 3.10
3.10 to 3.15
3.15 to 3.20
3.20 to 3.25
3.25 to 3.30
3.30 to 3.35
3.35 to 3.40
3.40 to 3.45
3.45 to 3.50
3.50 to 3.55
3.55 to 3.60
3.60 to 3.65
3.65 to 3.70
3.70 to 3.75
3.75 to 3.80
3.80 to 3.85
3.85 to 3.90
3.90 to 3.95
3.95 to 4.00
4.00 to 4.05
4.05 to 4.10
4.10 to 4.15
4.15 to 4.20
4.20 to 4.25
4.25 to 4.30
4.30 to 4.35
4.35 to 4.40
4.40 to 4.45
4.45 to 4.50
4.50 to 4.55
4.55 to 4.60
4.60 to 4.65
4.65 to 4.70
4.70 to 4.75
4.75 to 4.80
4.80 to 4.85
4.85 to 4.90
4.90 to 4.95
4.95 to 5.00
5.00 to 5.05
5.05 to 5.10
5.10 to 5.15
5.15 to 5.20
5.20 to 5.25
5.25 to 5.30
5.30 to 5.35
5.35 to 5.40
5.40 to 5.45
5.45 to 5.50
5.50 to 5.55
5.55 to 5.60
5.60 to 5.65
5.65 to 5.70
5.70 to 5.75
5.75 to 5.80
5.80 to 5.85
5.85 to 5.90
5.90 to 5.95
5.95 to 6.00
6.00 to 6.05
6.05 to 6.10
6.10 to 6.15
6.15 to 6.20
6.20 to 6.25
6.25 to 6.30
6.30 to 6.35
6.35 to 6.40
6.40 to 6.45
6.45 to 6.50
6.50 to 6.55
6.55 to 6.60
6.60 to 6.65
6.65 to 6.70
6.70 to 6.75
6.75 to 6.80
6.80 to 6.85
6.85 to 6.90
6.90 to 6.95
6.95 to 7.00
7.00 to 7.05
7.05 to 7.10
7.10 to 7.15
7.15 to 7.20
7.20 to 7.25
7.25 to 7.30
7.30 to 7.35
7.35 to 7.40
7.40 to 7.45
7.45 to 7.50
7.50 to 7.55
7.55 to 7.60
7.60 to 7.65
7.65 to 7.70
7.70 to 7.75
7.75 to 7.80
7.80 to 7.85
7.85 to 7.90
7.90 to 7.95
7.95 to 8.00
8.00 to 8.05
8.05 to 8.10
8.10 to 8.15
8.15 to 8.20
8.20 to 8.25
8.25 to 8.30
8.30 to 8.35
8.35 to 8.40
8.40 to 8.45
8.45 to 8.50
8.50 to 8.55
8.55 to 8.60
8.60 to 8.65
8.65 to 8.70
8.70 to 8.75
8.75 to 8.80
8.80 to 8.8

Grades	Class:	+/-	%	(
1	1	1	1	1
2	2	2	2	2
3	3	3	3	3
4	4	4	4	4
5	5	5	5	5
6	6	6	6	6
7	7	7	7	7
8	8	8	8	8
9	9	9	9	9
10	10	10	10	10
11	11	11	11	11
12	12	12	12	12

Vertical Curve: Crest or Sag, Curve Limits

Area and Development:

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

Speed: 1-Design, 2-Posted

Traffic Statistics (Current Year)

HPMS Sections – AADT 2013

HPMS Sections - AADT 2013

HPMS Sections – AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (N

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 2" = 1 mlie

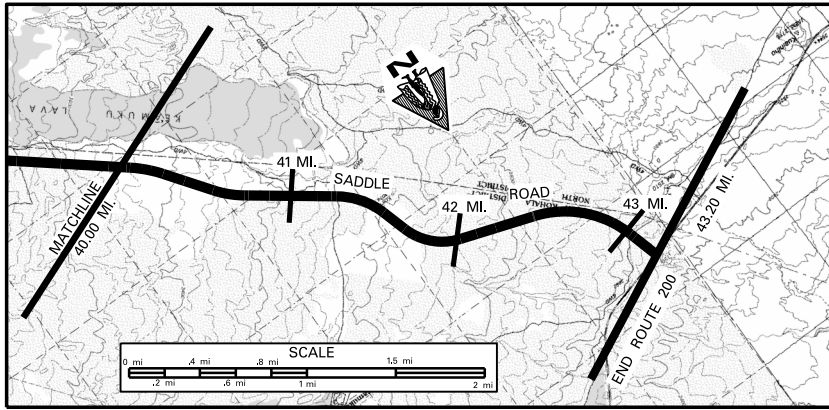
Sheet 2 of 5 HAWAII RTE 200

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: 43.20 miles
a. Survey Length: 43.20 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
	Vertical 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)

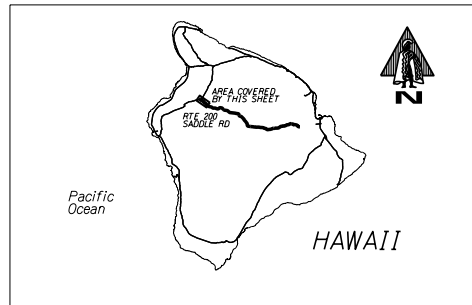
Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed

NONE

COUNTY

HI-A-AD-6(7), NEW ALIGNMENT (DEFENCE ACC, RD.), 2013



Road Diagram

* MP= Milepost Signage

CONTINUED FROM SHEET #4

ROAD
ROAD
ROAD
SADDLE ROAD
41.31 MI.
41.50 MI.
41.67 MI.

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

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	
		Shoulder: Width and Type	MILLED SHOULDERS RUMBLE STRIPS (3.60-43.20)
		Median: Width and Type	
	Divided	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

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:

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 Sectiona - AADT 2013

HPMS Sectiona - AADT 2012

HPMS Sectiona - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

2-12'

12 TRUCK CLIMBING LANE

RURAL (999999)

ROLLING (2)

45 MPH (2)

671 0200 02706

2,200

1,850

1,400

MINOR ARTERIAL (4)

NOT ON NHS (0)

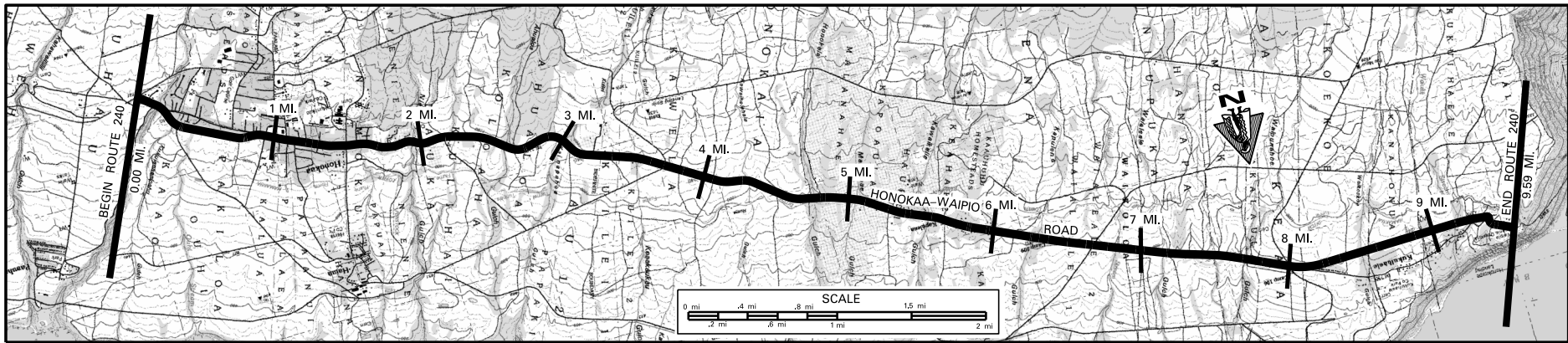
SCALE: (In Miles) 2" = 1 mile

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: 9.59 miles
a. Survey Length: 9.59 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

Structure
Carrying
Road

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

Vertical Clearance

Horizontal Clearance

Vertical Clearance

Horizontal Clearance

Structure
Over
Road

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

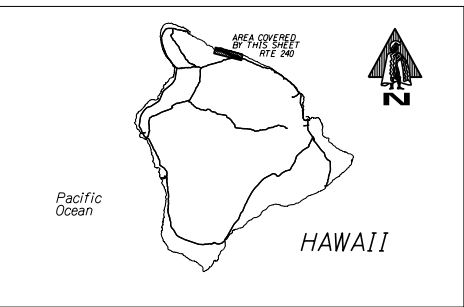
Right of Way Fence: Type - Right and Left

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

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

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(0-4.5) B(4.5-2.45) 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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

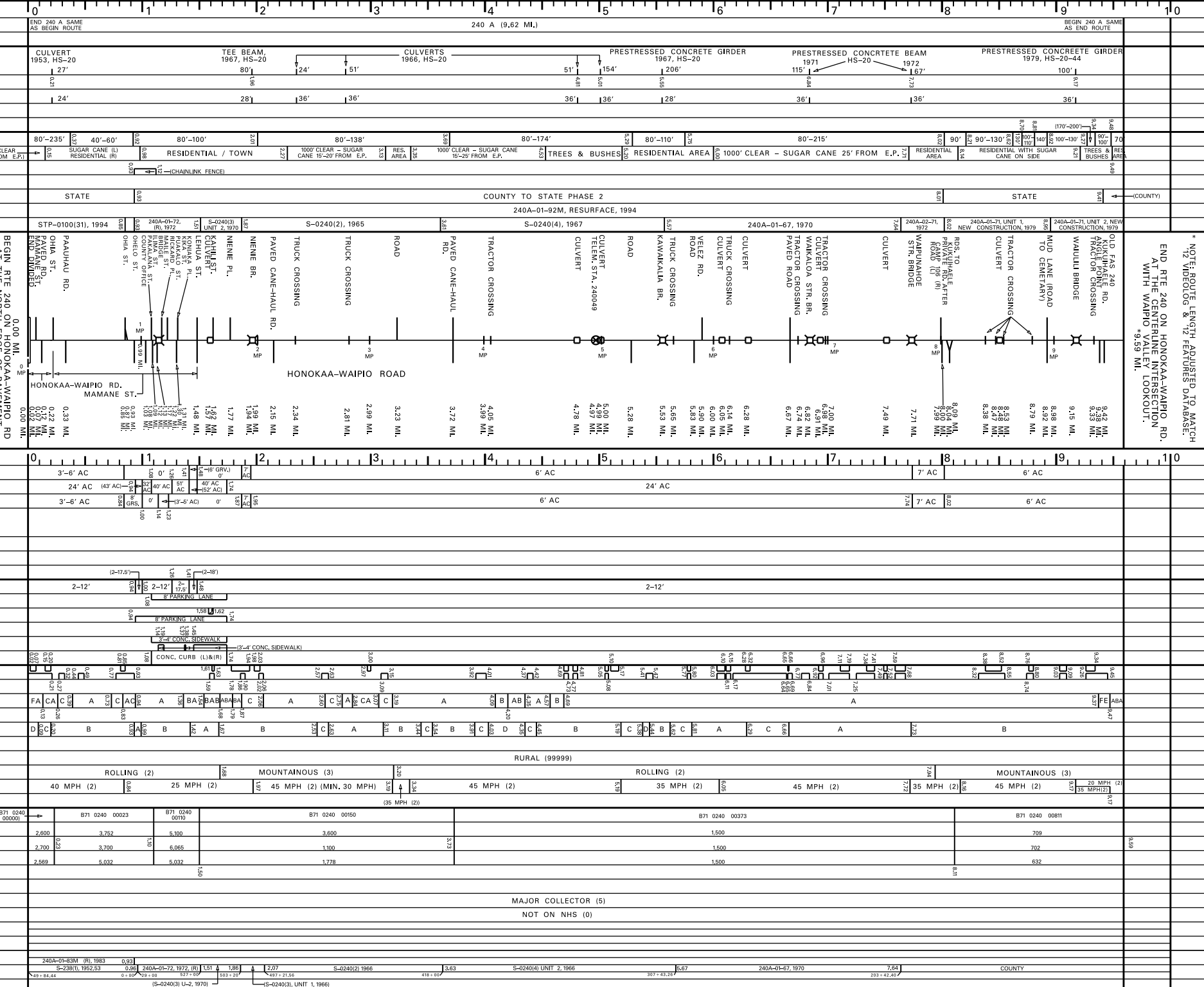
DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits



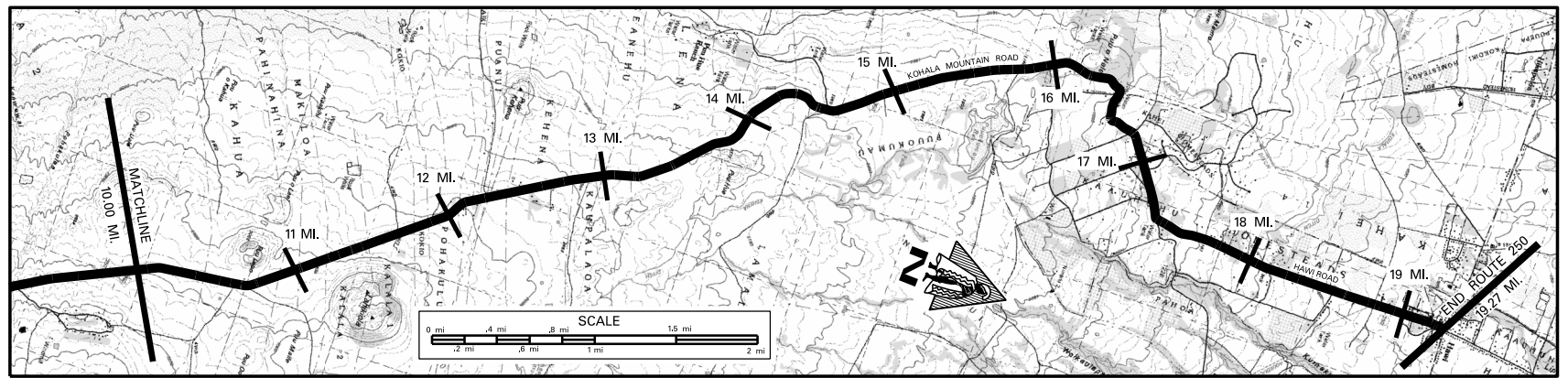
SCALE: (In Miles) 2" = 1 mile

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: 19.27 miles
a. Survey Length: 19.27 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

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

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

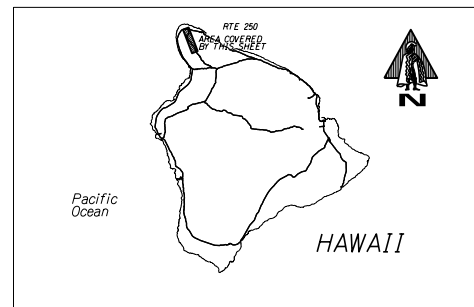
Right of Way Fence: Type - Right and Left W/W=Wire on Wood, E.P.=from Edge of Pavement

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

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

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed



Road Diagram

* MP= Milepost Signage

CONTINUED FROM SHEET #1

* NOTE: ROUTE LENGTH ADJUSTED TO MATCH
12 VIDEOLOG & 12 FEATURES DATABASE.
END ROUTE 250 ON HAWI ROAD AT THE
SOUTH EDGE OF PAVEMENT OF
AKOMI PULE HWY. (RTE 270)
+19.27 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway	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

Metal Rail on Metal Post unless otherwise noted.
M/C= Metal Rail on Concrete Post.

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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

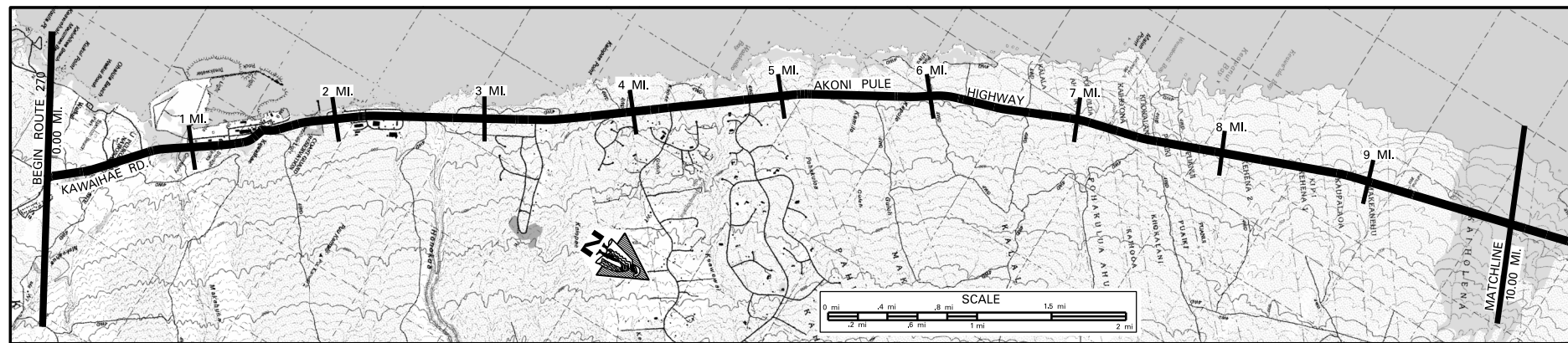
SCALE: (In Miles) 2" = 1 mile

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: 27.00 miles
a. Survey Length: 27.00 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

BEGIN 27A SAME AS BEGIN RTE 270 27 A (1.50 MI.) END 27A - BEGIN 270A AT CENTERLINE ROAD TO KAWAIHAE WHARF. 270A (11.44 MI.)

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

TEE BEAM 1960 HS-20 59' 28' 140' 140' 128'

SLAB 1960 HS-20 31' 0.85' 1.36'

SLAB 1960 HS-20 52' 1.36'

PRESTRESSED BEAM 1965, HS-20 165' 2.64'

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)

60' - 80' 60' 80' - 180'

BRUSH & TREES BRUSH & TREES CLEAR 1000' BUSHES & SMALL TREES (SOME CUT SLOPES)

(CHAINLINK 10' FROM E.P.) (STONE WALL 10' FROM PAVMT.) (CHAINLINK 10' FROM PAVMT.) (STONE WALL)

NONE

STATE (COUNTY TO STATE, PHASE 2) -

Project No., Type of Construction, and Year Constructed

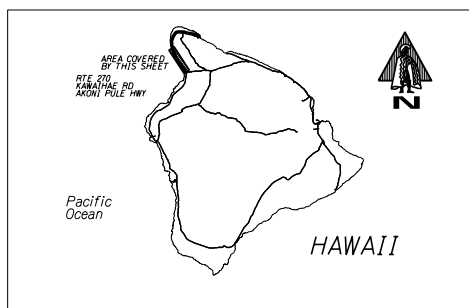
(NH-019-129), GUARDRAIL & SHLDR, IMPRV., 2006

STP-0270(019), PAVEMENT PREVENTIVE MAINTENANCE, 2013

Project No., Type of Construction, and Year Constructed

270A-01-96M, (R), 1997

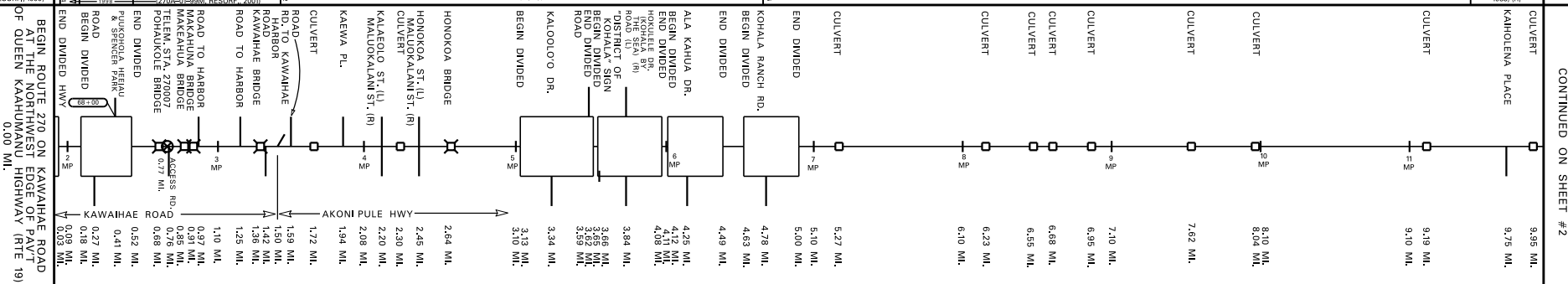
STP-0270(13), 1998, (SHLDR, IMPRV.)



Indicates Grass & / or Physical Barrier on Median.

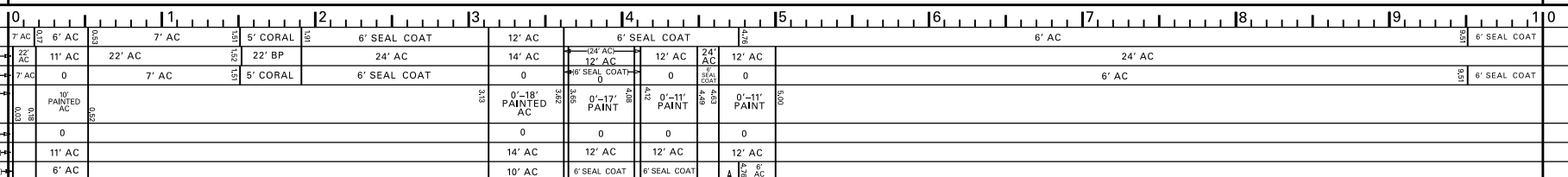
Road Diagram

* MP = Milepost Signage



SCALE: (In Miles) 2" = 1 mile

Divided Highway	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

2-11'

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

2-12'

(Right Side)

2-12'

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

2-12'

Sidewalk: Width and Type (Right and Left)

2-12'

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

2-12'

Protective Devices: Type, Location and Number

ALL METAL ON CONCRETE

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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

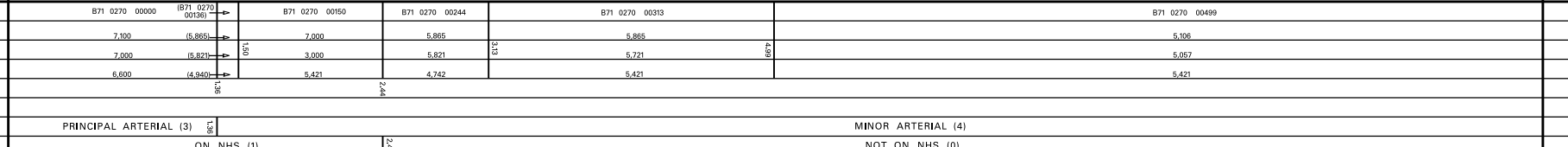
DOD Sections

Census Tracts

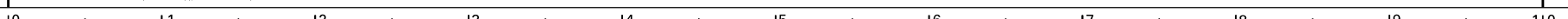
Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits



SCALE: (In Miles) 2" = 1 mile

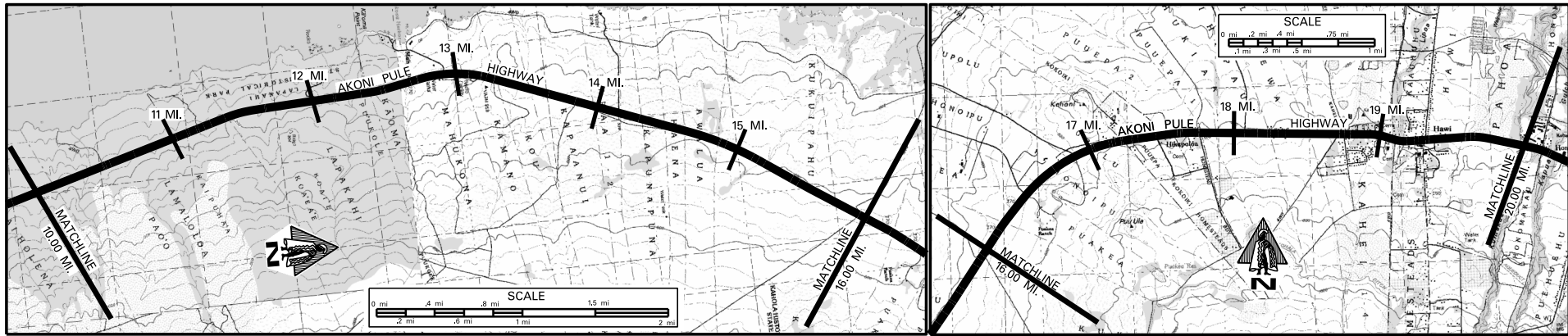


ROAD INVENTORY
HAWAII RTE 270
AKONI PULE HIGHWAY

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: 27.00 miles
a. Survey Length: 27.00 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles



SCALE: (In Miles) 2" = 1 mile

Maintenance Control Sections : Length and Description

Structure
Carrying
Road

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

Vertical Clearance

Horizontal Clearance

Structure
Over
Road

Vertical Clearance

Horizontal Clearance

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

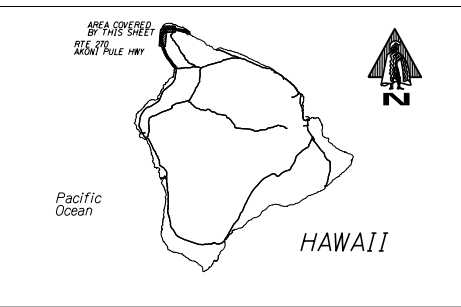
Right of Way Fence: Type - Right and Left

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

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

Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed



Indicates Grass & / or
Physical Barrier on Median.

Road Diagram

* MP= Milepost Signage

CONTINUED FROM SHEET #1

CULVERT

CULVERT

CULVERT

CONCRETE
DRAINAGE

11.11 MI.

10.94 MI.

10.65 MI.

10.37 MI.

10.15 MI.

10.09 MI.

12.09 MI.

12.03 MI.

11.89 MI.

12.09 MI.

12.03 MI.

11.89 MI.

12.09 MI.

12.03 MI.

11.89 MI.

12.09 MI.

12.03 MI.

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12.09 MI.

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12.03 MI.

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12.09 MI.

12.03 MI.

11.89 MI.

12.09 MI.

12.03 MI.

11.89 MI.

SCALE: (In Miles) 2" = 1 mile

Divided Highway

Shoulder: Width and Type

Pavement: Width and Type

Shoulder: Width and Type

Median: Width and Type

Median Barriers:

Shoulder: Width and Type

Pavement: Width and Type

Shoulder: Width and Type

Number of Traffic Lanes

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

(Right Side)

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

Sidewalk: Width and Type (Right and Left)

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

Protective Devices: Type, Location and Number

ALL METAL ON METAL

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 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

10

11

12

13

14

15

16

17

18

19

20

6" SEAL COAT

24' AC

10' GRAVEL

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

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10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

6" SEAL COAT

24' AC

10' GRAVEL

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

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10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

6" SEAL COAT

24' AC

10' GRAVEL

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

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10' GRASS

10' GRASS

10' GRASS

10' GRASS

6" SEAL COAT

24' AC

10' GRAVEL

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

10' GRASS

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10' GRASS

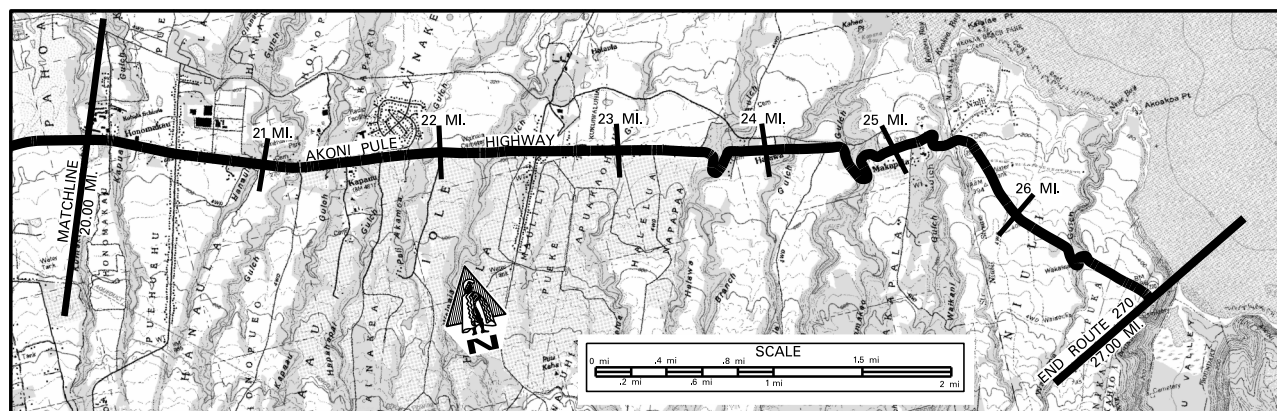
10' GRASS

Total Route Length: 27.00 **miles**

a. Survey Length: 27.00 **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	1.0000
2	2.0000
3	3.0000
4	4.0000
5	5.0000
6	6.0000
7	7.0000
8	8.0000
9	9.0000
10	10.0000
11	11.0000
12	12.0000
13	13.0000
14	14.0000
15	15.0000
16	16.0000
17	17.0000
18	18.0000
19	19.0000
20	20.0000
21	21.0000
22	22.0000
23	23.0000
24	24.0000
25	25.0000
26	26.0000
27	27.0000
28	28.0000
29	29.0000
30	30.0000
31	31.0000
32	32.0000
33	33.0000
34	34.0000
35	35.0000
36	36.0000
37	37.0000
38	38.0000
39	39.0000
40	40.0000
41	41.0000
42	42.0000
43	43.0000
44	44.0000
45	45.0000
46	46.0000
47	47.0000
48	48.0000
49	49.0000
50	50.0000
51	51.0000
52	52.0000
53	53.0000
54	54.0000
55	55.0000
56	56.0000
57	57.0000
58	58.0000
59	59.0000
60	60.0000
61	61.0000
62	62.0000
63	63.0000
64	64.0000
65	65.0000
66	66.0000
67	67.0000
68	68.0000
69	69.0000
70	70.0000
71	71.0000
72	72.0000
73	73.0000
74	74.0000
75	75.0000
76	76.0000
77	77.0000
78	78.0000
79	79.0000
80	80.0000
81	81.0000
82	82.0000
83	83.0000
84	84.0000
85	85.0000
86	86.0000
87	87.0000
88	88.0000
89	89.0000
90	90.0000
91	91.0000
92	92.0000
93	93.0000
94	94.0000
95	95.0000
96	96.0000
97	97.0000
98	98.0000
99	99.0000
100	100.0000

Right of Way Width (min.-max.) if varies

	Available Right of Way Width (Needs Study)
0-6'	0%
7-9'	0%
10-12'	0%
13-15'	0%
16-18'	0%
19-21'	0%
22-24'	0%
25'-and over	0%
Total	0%

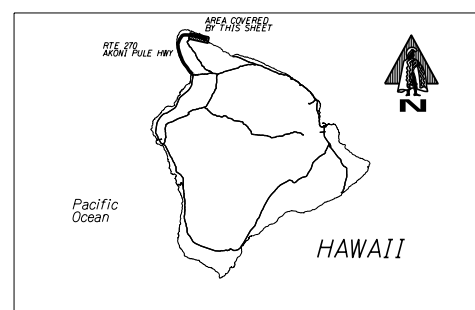
Right of Way Fence: Type – Right and Left

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	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38	39	40	41	42	43	44	45	46	47	48	49	50	51	52	53	54	55	56	57	58	59	60	61	62	63	64	65	66	67	68	69	70	71	72	73	74	75	76	77	78	79	80	81	82	83	84	85	86	87	88	89	90	91	92	93	94	95	96	97	98	99	100	

Project No., Type of Construction, and Year Constructed	
1	1960
2	1961
3	1962
4	1963
5	1964
6	1965
7	1966
8	1967
9	1968
10	1969
11	1970
12	1971
13	1972
14	1973
15	1974
16	1975
17	1976
18	1977
19	1978
20	1979
21	1980
22	1981
23	1982
24	1983
25	1984
26	1985
27	1986
28	1987
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37	1996
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44	2003
45	2004
46	2005
47	2006
48	2007
49	2008
50	2009
51	2010
52	2011
53	2012
54	2013
55	2014
56	2015
57	2016
58	2017
59	2018
60	2019
61	2020
62	2021
63	2022
64	2023
65	2024
66	2025
67	2026
68	2027
69	2028
70	2029
71	2030
72	2031
73	2032
74	2033
75	2034
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77	2036
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79	2038
80	2039
81	2040
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83	2042
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86	2045
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89	2048
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97	2056
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115	2074
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137	2096
138	2097
139	2098
140	2099
141	2100
142	2101
143	2102
144	2103
145	2104
146	2105
147	2106
148	2107
149	2108
150	2109
151	2110
152	2111
153	2112
154	2113
155	2114
156	2115
157	2116
158	2117
159	2118
160	2119



Road Diagram

* MP= Milipost Signage

SCALE: (In Miles) 2" = 1 mlie

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)	
Right	Left
Width	Width
Type	Type

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

[illegible]

Illumination: Type, Location and Number

Curves Class: +/- Degree A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.8)

Superelevation (Range)
0.00-0.05
0.05-0.10
0.10-0.15
0.15-0.20
0.20-0.25
0.25-0.30
0.30-0.35
0.35-0.40
0.40-0.45
0.45-0.50
0.50-0.55
0.55-0.60
0.60-0.65
0.65-0.70
0.70-0.75
0.75-0.80
0.80-0.85
0.85-0.90
0.90-0.95
0.95-1.00
1.00-1.05
1.05-1.10
1.10-1.15
1.15-1.20
1.20-1.25
1.25-1.30
1.30-1.35
1.35-1.40
1.40-1.45
1.45-1.50
1.50-1.55
1.55-1.60
1.60-1.65
1.65-1.70
1.70-1.75
1.75-1.80
1.80-1.85
1.85-1.90
1.90-1.95
1.95-2.00
2.00-2.05
2.05-2.10
2.10-2.15
2.15-2.20
2.20-2.25
2.25-2.30
2.30-2.35
2.35-2.40
2.40-2.45
2.45-2.50
2.50-2.55
2.55-2.60
2.60-2.65
2.65-2.70
2.70-2.75
2.75-2.80
2.80-2.85
2.85-2.90
2.90-2.95
2.95-3.00
3.00-3.05
3.05-3.10
3.10-3.15
3.15-3.20
3.20-3.25
3.25-3.30
3.30-3.35
3.35-3.40
3.40-3.45
3.45-3.50
3.50-3.55
3.55-3.60
3.60-3.65
3.65-3.70
3.70-3.75
3.75-3.80
3.80-3.85
3.85-3.90
3.90-3.95
3.95-4.00
4.00-4.05
4.05-4.10
4.10-4.15
4.15-4.20
4.20-4.25
4.25-4.30
4.30-4.35
4.35-4.40
4.40-4.45
4.45-4.50
4.50-4.55
4.55-4.60
4.60-4.65
4.65-4.70
4.70-4.75
4.75-4.80
4.80-4.85
4.85-4.90
4.90-4.95
4.95-5.00
5.00-5.05
5.05-5.10
5.10-5.15
5.15-5.20
5.20-5.25
5.25-5.30
5.30-5.35
5.35-5.40
5.40-5.45
5.45-5.50
5.50-5.55
5.55-5.60
5.60-5.65
5.65-5.70
5.70-5.75
5.75-5.80
5.80-5.85
5.85-5.90
5.90-5.95
5.95-6.00
6.00-6.05
6.05-6.10
6.10-6.15
6.15-6.20
6.20-6.25
6.25-6.30
6.30-6.35
6.35-6.40
6.40-6.45
6.45-6.50
6.50-6.55
6.55-6.60
6.60-6.65
6.65-6.70
6.70-6.75
6.75-6.80
6.80-6.85
6.85-6.90
6.90-6.95
6.95-7.00
7.00-7.05
7.05-7.10
7.10-7.15
7.15-7.20
7.20-7.25
7.25-7.30
7.30-7.35
7.35-7.40
7.40-7.45
7.45-7.50
7.50-7.55
7.55-7.60
7.60-7.65
7.65-7.70
7.70-7.75
7.75-7.80
7.80-7.85
7.85-7.90
7.90-7.95
7.95-8.00
8.00-8.05
8.05-8.10
8.10-8.15
8.15-8.20
8.20-8.25
8.25-8.30
8.30-8.35
8.35-8.40
8.40-8.45
8.45-8.50
8.50-8.55
8.55-8.60
8.60-8.65
8.65-8.70
8.70-8.75
8.75-8.80
8.80-8.85
8.85-8.90
8.90-8.95
8.95-9.00
9.00-9.05
9.05-9.10
9.10-9.15
9.15-9.20
9.20-9.25

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

Vertical Curve: Crest or Sag, Curve Limits	
Assumed Data:	
$g_1 =$ _____ $g_2 =$ _____ $L =$ _____ $PVI =$ _____ $HI =$ _____ $h_1 =$ _____ $h_2 =$ _____ $h_3 =$ _____ $h_4 =$ _____ $h_5 =$ _____ $h_6 =$ _____ $h_7 =$ _____ $h_8 =$ _____ $h_9 =$ _____ $h_{10} =$ _____ $h_{11} =$ _____ $h_{12} =$ _____ $h_{13} =$ _____ $h_{14} =$ _____ $h_{15} =$ _____ $h_{16} =$ _____ $h_{17} =$ _____ $h_{18} =$ _____ $h_{19} =$ _____ $h_{20} =$ _____ $h_{21} =$ _____ $h_{22} =$ _____ $h_{23} =$ _____ $h_{24} =$ _____ $h_{25} =$ _____ $h_{26} =$ _____ $h_{27} =$ _____ $h_{28} =$ _____ $h_{29} =$ _____ $h_{30} =$ _____ $h_{31} =$ _____ $h_{32} =$ _____ $h_{33} =$ _____ $h_{34} =$ _____ $h_{35} =$ _____ $h_{36} =$ _____ $h_{37} =$ _____ $h_{38} =$ _____ $h_{39} =$ _____ $h_{40} =$ _____ $h_{41} =$ _____ $h_{42} =$ _____ $h_{43} =$ _____ $h_{44} =$ _____ $h_{45} =$ _____ $h_{46} =$ _____ $h_{47} =$ _____ $h_{48} =$ _____ $h_{49} =$ _____ $h_{50} =$ _____ $h_{51} =$ _____ $h_{52} =$ _____ $h_{53} =$ _____ $h_{54} =$ _____ $h_{55} =$ _____ $h_{56} =$ _____ $h_{57} =$ _____ $h_{58} =$ _____ $h_{59} =$ _____ $h_{60} =$ _____ $h_{61} =$ _____ $h_{62} =$ _____ $h_{63} =$ _____ $h_{64} =$ _____ $h_{65} =$ _____ $h_{66} =$ _____ $h_{67} =$ _____ $h_{68} =$ _____ $h_{69} =$ _____ $h_{70} =$ _____ $h_{71} =$ _____ $h_{72} =$ _____ $h_{73} =$ _____ $h_{74} =$ _____ $h_{75} =$ _____ $h_{76} =$ _____ $h_{77} =$ _____ $h_{78} =$ _____ $h_{79} =$ _____ $h_{80} =$ _____ $h_{81} =$ _____ $h_{82} =$ _____ $h_{83} =$ _____ $h_{84} =$ _____ $h_{85} =$ _____ $h_{86} =$ _____ $h_{87} =$ _____ $h_{88} =$ _____ $h_{89} =$ _____ $h_{90} =$ _____ $h_{91} =$ _____ $h_{92} =$ _____ $h_{93} =$ _____ $h_{94} =$ _____ $h_{95} =$ _____ $h_{96} =$ _____ $h_{97} =$ _____ $h_{98} =$ _____ $h_{99} =$ _____ $h_{100} =$ _____ $h_{101} =$ _____ $h_{102} =$ _____ $h_{103} =$ _____ $h_{104} =$ _____ $h_{105} =$ _____ $h_{106} =$ _____ $h_{107} =$ _____ $h_{108} =$ _____ $h_{109} =$ _____ $h_{110} =$ _____ $h_{111} =$ _____ $h_{112} =$ _____ $h_{113} =$ _____ $h_{114} =$ _____ $h_{115} =$ _____ $h_{116} =$ _____ $h_{117} =$ _____ $h_{118} =$ _____ $h_{119} =$ _____ $h_{120} =$ _____ $h_{121} =$ _____ $h_{122} =$ _____ $h_{123} =$ _____ $h_{124} =$ _____ $h_{125} =$ _____ $h_{126} =$ _____ $h_{127} =$ _____ $h_{128} =$ _____ $h_{129} =$ _____ $h_{130} =$ _____ $h_{131} =$ _____ $h_{132} =$ _____ $h_{133} =$ _____ $h_{134} =$ _____ $h_{135} =$ _____ $h_{136} =$ _____ $h_{137} =$ _____ $h_{138} =$ _____ $h_{139} =$ _____ $h_{140} =$ _____ $h_{141} =$ _____ $h_{142} =$ _____ $h_{143} =$ _____ $h_{144} =$ _____ $h_{145} =$ _____ $h_{146} =$ _____ $h_{147} =$ _____ $h_{148} =$ _____ $h_{149} =$ _____ $h_{150} =$ _____ $h_{151} =$ _____ $h_{152} =$ _____ $h_{153} =$ _____ $h_{154} =$ _____ $h_{155} =$ _____ $h_{156} =$ _____ $h_{157} =$ _____ $h_{158} =$ _____ $h_{159} =$ _____ $h_{160} =$ _____ $h_{161} =$ _____ $h_{162} =$ _____ $h_{163} =$ _____ $h_{164} =$ _____ $h_{165} =$ _____ $h_{166} =$ _____ $h_{167} =$ _____ $h_{168} =$ _____ $h_{169} =$ _____ $h_{170} =$ _____ $h_{171} =$ _____ $h_{172} =$ _____ $h_{173} =$ _____ $h_{174} =$ _____ $h_{175} =$ _____ $h_{176} =$ _____ $h_{177} =$ _____ $h_{178} =$ _____ $h_{179} =$ _____ $h_{180} =$ _____ $h_{181} =$ _____ $h_{182} =$ _____ $h_{183} =$ _____ $h_{184} =$ _____ $h_{185} =$ _____ $h_{186} =$ _____ $h_{187} =$ _____ $h_{188} =$ _____ $h_{189} =$ _____ $h_{190} =$ _____ $h_{191} =$ _____ $h_{192} =$ _____ $h_{193} =$ _____ $h_{194} =$ _____ $h_{195} =$ _____ $h_{196} =$ _____ $h_{197} =$ _____ $h_{198} =$ _____ $h_{199} =$ _____ $h_{200} =$ _____ $h_{201} =$ _____ $h_{202} =$ _____ $h_{203} =$ _____ $h_{204} =$ _____ $h_{205} =$ _____ $h_{206} =$ _____ $h_{207} =$ _____ $h_{208} =$ _____ $h_{209} =$ _____ $h_{210} =$ _____ $h_{211} =$ _____ $h_{212} =$ _____ $h_{213} =$ _____ $h_{214} =$ _____ $h_{215} =$ _____ $h_{216} =$ _____ $h_{217} =$ _____ $h_{218} =$ _____ $h_{219} =$ _____ $h_{220} =$ _____ $h_{221} =$ _____ $h_{222} =$ _____ $h_{223} =$ _____ $h_{224} =$ _____ $h_{225} =$ _____ $h_{226} =$ _____ h_{227}	

Terrain: 1 Flat 2 Rolling 3 Mountainous

Speed: 1-Design, 2-Boosted

Intersection Control Devices: Type, Location, and Cycle Timing

Traffic Stations (Current Year)

HPMS Sections - AADT 2013

HPMS Sections - AADT 2012

HPMS Sections – AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits		

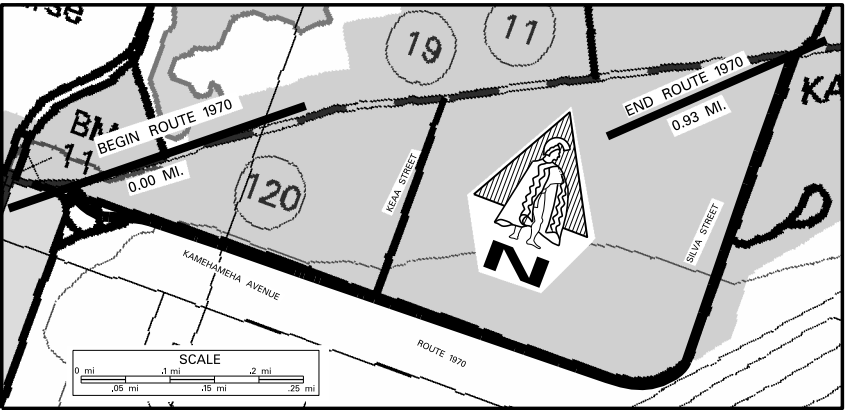
SCALE: (In Miles) 2" = 1 mle

ROAD INVENTORY
HAWAII RTE 1970
KAMEHAMEHA AVE., SILVA ST.

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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

Total Route Length: 0.93 miles
a. Survey Length: 0.93 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles



SCALE: (In Miles) 20" = 1 mile

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
	Vertical Clearance
Structure Over Road	Horizontal Clearance

Right of Way Width (min-max.) if varies

Available Right of Way Width (Needs Study)

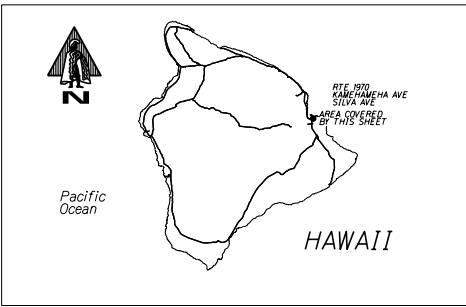
Right of Way Fence: Type - Right and Left

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

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

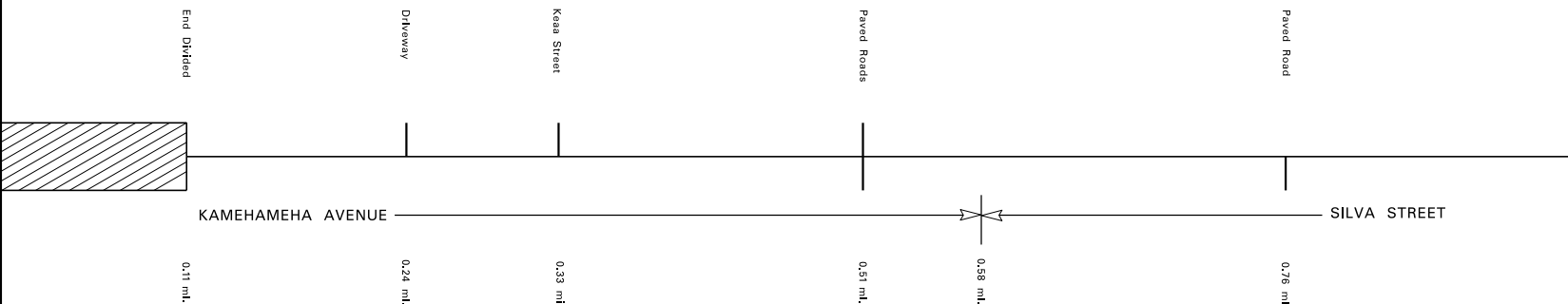
Project No., Type of Construction, and Year Constructed

Project No., Type of Construction, and Year Constructed



Indicates Grass & / or
Physical Barrier on Median.
Road Diagram
* MP = Milepost Signage

BEGIN ROUTE 1970 AT THE SOUTHEAST
EDGE OF PAVEMENT OF TRAFFIC CIRCLE
ON KAMEHAMEHA AVENUE
0.00 MI.



NOTE: ROUTE LENGTH ADJUSTED TO MATCH
1/2 VIDEOLOG & 1/2 FEATURES DATABASE.
END ROUTE 1970 ON SILVA STREET
AT THE SOUTH EDGE OF PAVEMENT
OF KALANANAOLE STREET ACROSS
HILO HARBOR ENTRANCE.
0.93 MI.*

SCALE: (In Miles) 20" = 1 mile

0.0 0.10 0.20 0.30 0.40 0.50 0.60 0.70 0.80 0.90 1.00

Divided Highway	Shoulder: Width and Type
	Pavement: Width and Type
	Shoulder: Width and Type
	Median: Width and Type
Divided Highway	Shoulder: Width and Type
	Pavement: Width and Type
	Shoulder: Width and Type

Number of Traffic Lanes

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

(Right Side)

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

Sidewalk: Width and Type (Right and Left)

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

Protective Devices: Type, Location and Number

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development:

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

Speed: 1-Design, 2-Posted

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year)

HPMS Sections - AADT 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

2' AC / 6' Grass 10' AC 2' AC / 10' Grass 10' AC 3' AC 10' AC

10' AC 10' Grass 20' AC 3' AC 10' AC

50' Raised Grass 10' AC 10' Grass 2-10'

0 10' AC 10' Grass 2-10'

0 10' AC 10' Grass 2-10'

0 10' AC 10' Grass 2-10'

0 10' AC 10' Grass 2-10'

0 10' AC 10' Grass 2-10'

0 10' AC 10' Grass 2-10'

0 10' AC 10' Grass 2-10'

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0 10' AC 10' Grass 2-10'

0 10' AC 10' Grass 2-10'

0 10' AC 10' Grass 2-10'

0 10' AC 10' Grass 2-10'

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

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: 6.87 miles
a. Survey Length: 6.87 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles



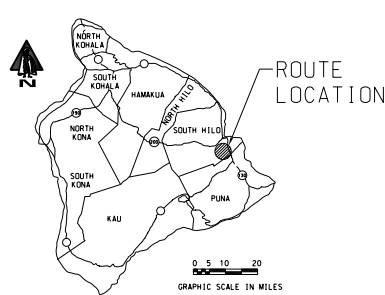
SCALE: (In Miles) 4" = 1 mile

Maintenance Control Sections : Length and Description

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

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

Varies 50'-80'	120'
Residential Area	
None	Partial
State	State
(2000E-01-00, Imprvs, 2004)	
(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

0.00 mi.	0.25 mi.	0.28 mi.	0.38 mi.	0.46 mi.	0.50 mi.	0.55 mi.	0.63 mi.	0.68 mi.	0.73 mi.	0.83 mi.	0.93 mi.	1.03 mi.	1.10 mi.	1.14 mi.	1.23 mi.	1.28 mi.	1.31 mi.	1.33 mi.	1.39 mi.	1.49 mi.	1.54 mi.	1.58 mi.	1.67 mi.	1.75 mi.	1.84 mi.	1.95 mi.	2.04 mi.	2.17 mi.	2.22 mi.	2.72 mi.	3.12 mi.	3.27 mi.	3.53 mi.	4.33 mi.	4.59 mi.	4.72 mi.	5.00 mi.
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SCALE: (In Miles) 4" = 1 mile

Divided Highway	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

0	6'-8' AC (11' AC)	2'-4' AC	2'-4' AC	9' AC
28' AC	12' AC	26' AC	24' AC	24' AC
0	0	0	0	9' AC
42' Raised Grass	12' Painted AC (12' Raised Conc.)	12' Painted AC (12' Raised Conc.)	12' Painted AC (12' Raised Conc.)	12' Painted AC (12' Raised Conc.)
28' AC	12' AC	26' AC	24' AC	24' AC
0	0	0	0	0

Number of Traffic Lanes
Auxiliary Lanes and Parking Lanes: No. of Lanes and Width (Left Side)
(Right Side)
Frontage Road: No. of Lanes, and Width (Right and Left)
Sidewalk: Width and Type (Right and Left)
Curb and/or Gutter: Type (Right and Left)
Protective Devices: Type, Location and Number
Illumination: Type, Location and Number
Curves Class: +/- Degree (A(0-3.45) B(3.45-5.44) C(5.44-8.48) D(8.48-13.85) E(13.85-28.62) F(<28.62)
Superelevation (Range)
Grades Class: +/- % (A(0-4.5) B(4.5-2.45) 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

4-14'	2-12'	2-12'	2-12'	2-12'
0	0	0	0	0
7 Sodium Vapor	8 M.V., 5 Incandescent	8 M.V., 5 Incandescent	8 M.V., 5 Incandescent	8 M.V., 5 Incandescent
A	A	A	A	A
B	A	B	C	B
30 MPH (2)	35 MPH (2)	35 MPH (2)	35 MPH (2)	55 MPH (2)

Traffic Stations (Current Year)
HPMS Sections - AADT 2013
HPMS Sections - AADT 2012
HPMS Sections - AADT 2011
DOD Sections
Census Tracts
Functional Classification
National Highway System (NHS)
Previous Projects: Project No., Date and Limits

8,688	7,850	8,688	15,213	12,300	9,800	12,511	4,900
8,622	9,250	8,474	15,067	11,600	9,600	12,200	4,700
4,841	8,030	8,030	17,798	9,869	9,682	14,150	101

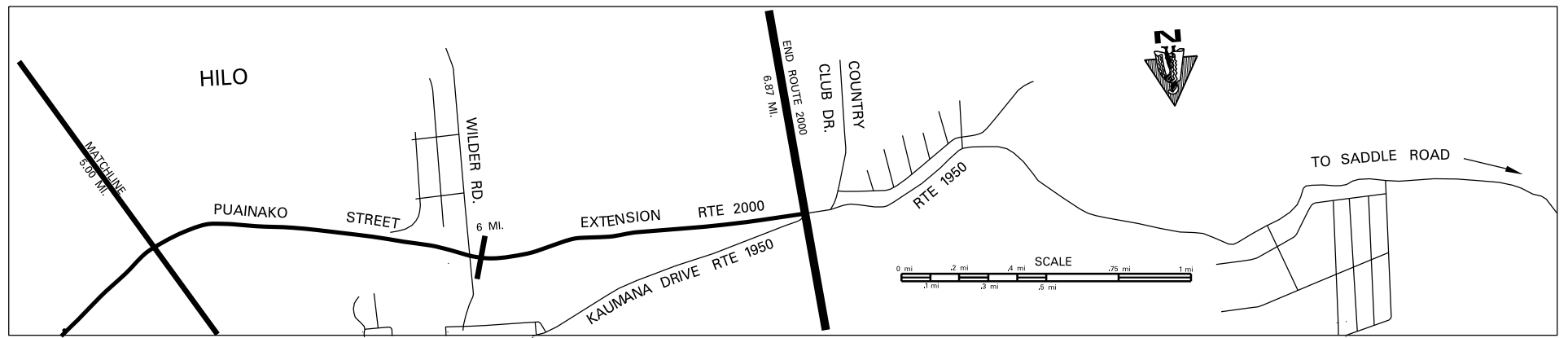
SCALE: (In Miles) 4" = 1 mile

ROAD INVENTORY
HAWAII RTE 2000
PUAINAKO STREET EXTENSION

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

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

Total Route Length: 6.87 miles
a. Survey Length: 6.87 miles
b. Proposed Length: 0.00 miles
c. Other Length: * 0.00 miles



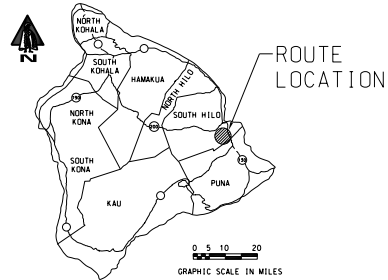
SCALE: (In Miles) 4" = 1 mile

Maintenance Control Sections : Length and Description

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

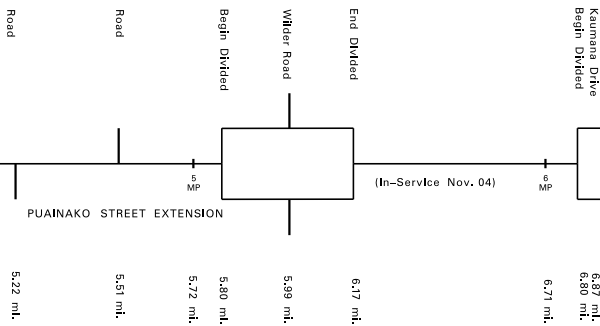
Right of Way Width (min.-max.) If varies
Available Right of Way Width (Needs Study)
Right of Way Fence: Type - Right and Left
Control of Access: 1-None, 2-Partial, 3-Full
Jurisdiction, Transfer Phase No. and Date (C to S or S to C)
Project No., Type of Construction, and Year Constructed
Project No.,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

County Project STP-2000(4), New Construction, 2004



Road Diagram
* MP = Milepost Signage

CONTINUED FROM SHEET 1.



* NOTE: ROUTE LENGTH ADJUSTED TO MATCH
1/2 VIDEOLOG & 1/2 FEATURES DATABASE.
END ROUTE 2000 ON PUAINAKO STREET
EXTENSION AT THE EAST EDGE
OF PAVEMENT WITH
KAUMANA DRIVE.
* 6.87 mi.

SCALE: (In Miles) 4" = 1 mile

Divided Highway	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

SCALE: (In Miles) 4" = 1 mile

Number of Traffic Lanes

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

(Right Side)

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

Sidewalk: Width and Type (Right and Left)

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

Protective Devices: Type, Location and Number

Illumination: Type, Location and Number

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

Superelevation (Range)

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

Vertical Curve: Crest or Sag, Curve Limits

Area and Development:

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

Speed: 1-Design, 2-Posted

Intersection Control Devices: Type, Location and Cycle Timing

Traffic Stations (Current Year)

HPMS Sections - AADT 2013

HPMS Sections - AADT 2012

HPMS Sections - AADT 2011

DOD Sections

Census Tracts

Functional Classification

National Highway System (NHS)

Previous Projects: Project No., Date and Limits

SCALE: (In Miles) 4" = 1 mile