



Figure 5-3

County of Hawaii Long Range Land Transportation Plan
 Island Wide Circulation Alternative No. 3

**TABLE 6-1
HAWAII LONG RANGE LAND TRANSPORTATION PLAN
FUTURE TRAFFIC LANE NEEDS BY DEFICIENT HIGHWAY TRAVEL CORRIDOR**

Islandwide Circulation

Screen Line	Highway Travel Corridor	Existing No. of Traffic Lanes (Base Year 1992)	Additional Traffic Lanes Indicated (Year 2020)
1-1	Mamalahoa Highway -- South Kona	2	0
2-2	Traffic Entering/Exiting Napoopoo -- North Leg	2	2 to 4
2-2	Traffic Entering/Exiting Napoopoo -- South Leg	2	2
3-3	Traffic Entering/Exiting Kailua-Kona -- North Legs (Queen Kaahumanu Hwy/Hawaii Belt Road)	4	4 to 6
3-3	Traffic Entering/Exiting Kailua-Kona -- South Leg (Mamalahoa Highway)	2	2 to 4
4-4	Between Waimea and Kailua-Kona (Queen Kaahumanu Hwy/Hawaii Belt Road)	4	2 to 4
5-5	Between South Kohala and North Kohala (Akoni Pule Highway/Kohala Mountain Road)	4	2
6-6	Between Waimea and Kawaihae (Waimea-Kawaihae Road/Waikoloa Road)	4	2 to 4
7-7	Between Waimea and Waikoloa (Queen Kaahumanu Highway/Mamalahoa Highway)	4	4
8-8	Mamalahoa Highway (south of Waimea)	2	0 to 2
9-9	Entering/Exiting Waimea -- West Leg (Mamalahoa Highway)	2	0 to 2
9-9	Entering/Exiting Waimea -- North Leg (Waimea-Kawaihae Road)	2	2 to 4
9-9	Entering/Exiting Waimea Village -- East Leg (Mamalahoa Highway)	2	2 to 4
10-10	Mud Lane (Hawaii Belt Road)	2	2
11-11	Laupahoehoe Area (Hawaii Belt Road)	2	2
12-12	Papaikou Area (Hawaii Belt Road)	2	2 to 4
13-13	Entering/Exiting Hilo -- North Leg (Hawaii Belt Road)	2	2 to 4
13-13	Entering/Exiting Hilo -- West Leg (Saddle Road)	2	0
13-13	Entering/Exiting Hilo -- South Leg (Kanoelehua Avenue)	4	6 to 8
14-14	Hawaii Belt Road (between Hilo and Keaau)	4	4 to 6
15-15	Hawaii Belt Road (between Keaau and Kurtistown)	2	4
16-16	Keaau-Paho Road	2	4

**TABLE 7-3
HAWAII LONG RANGE LAND TRANSPORTATION PLAN
MAJOR HIGHWAY CAPACITY FUTURE IMPROVEMENTS BY SUGGESTED FUNDING TIER**

No.	Facility	Location	Description/Improvements	Cost (in millions)	Comments/Discussion
Tier 1 (1998 - 2005)					
5a S	Keau-Paho Road (HWY 130)	Keau Bypass to Paradise Drive	Widen from two lanes to four lanes with separate turning lanes at major intersections	\$37.8	<ol style="list-style-type: none"> Addresses existing deficiency Future corridor deficiencies analysis indicates need for 4 additional lanes
7a S	Saddle Road (HWY 200)	Kaumana to John A. Burns Way (Mauna Kea Access Road)	Reconstruct existing two-lane highway to provide geometric design, intersection and safety improvements	\$36.5	<ol style="list-style-type: none"> Links Hilo (Puainako Ext.) with West Hawaii Addresses safety concerns along Saddle Road Provides more efficient route to West Hawaii Relieves congestion along other routes (Hwy 19)
7b S	Saddle Road (HWY 200)	John A. Burns Way (Mauna Kea Access Road) to MP 42	Reconstruct existing two-lane highway to provide geometric design, intersection and safety improvements	\$50.0 (a)	<ol style="list-style-type: none"> Addresses safety concerns along Saddle Road Relieves congestion along other routes (Hwy 19) Federal funding available (Department of Defense)
7c S	Saddle Road (HWY 200)	MP 42 to Mamalahoa Highway	New two-lane highway with separate turning lanes at major intersections (realign Saddle Road to intersect with Mamalahoa Highway at or near the Waikoloa Road junction)	\$40.2	<ol style="list-style-type: none"> Connects Mamalahoa Highway with PTA Addresses safety concerns along Saddle Road Provides more efficient route to West Hawaii Relieves congestion along other routes (Hwy 19)
14a S	Waimea Bypass (Mud Lane Sec.)	Mud Lane to Waimea Airport	New two-lane highway with separate turning lanes at major intersections (b)	\$36.6	<ol style="list-style-type: none"> Addresses existing deficiency (Mamalahoa Hwy) Supports economic development Future deficiency exhibits need for 4 more lanes
14c S	Waimea Bypass (Kawaihae Sec.)	Queen Kaahumanu Highway to Akoni Pule Highway	New two-lane highway with separate turning lanes at major intersections (b)	\$4.7	<ol style="list-style-type: none"> Addresses existing congestion at harbor Supports growth in port traffic (cargo, passenger) Supports economic development (DHHL) Enhances intermodal connectivity
17 C/S	Kalaniana'ole Avenue (HWY 137)	Kanolehua Avenue to Hilo Harbor	Widen existing two-lane highway to four lanes with separate turning lanes at major intersections	\$4.5	<ol style="list-style-type: none"> Addresses existing deficiency Addresses existing congestion at harbor Supports growth in port traffic (cargo, passenger) Enhances intermodal connectivity

**TABLE 7-3
HAWAII LONG RANGE LAND TRANSPORTATION PLAN
MAJOR HIGHWAY CAPACITY FUTURE IMPROVEMENTS BY SUGGESTED FUNDING TIER**

No.	Facility	Location	Description/Improvements	Cost (in millions)	Comments/Discussion
Tier 2 (2006 - 2010)					
1a S	Hawaii Belt Road (HWY 11)	Kurtistown to Keaau	Widen from two lanes to four lanes with separate turning lanes at major intersections	\$20.0	1. Addresses projected deficiency 2. Future deficiencies analysis indicates need for 4 additional lanes
2 S	Hawaii Belt Road (HWY 11)	Keaau to Makalika Street	Widen from four-lane divided highway to six-lane divided highway with intersection improvements as required	\$17.6	1. Addresses projected deficiency 2. Future need for 6 to 8 additional lanes in corridor 3. Links Keaau Bypass and Highway 11
5b S	Keaau-Pahoa Road (HWY 130)	Paradise Drive to Pahoa Bypass	Widen from two lanes to four lanes with separate turn lanes at major intersections	\$16.8	1. Addresses existing deficiency 2. Future need for 4 additional lanes 3. Provides for continuity of Hwy 130 treatment
13a C	Waikoloa Road	Mamalahoa Highway to Queen Kaahumanu Highway	Widen from two lanes to four lanes or construct new road from western terminus of Saddle Road realignment	\$34.0	1. Addresses projected deficiency (Mamalahoa/QK) 2. Future need in corridor for 2 to 4 additional lanes 3. Completes cross-island system improvement of Puainako Ave. Extension coupled with Saddle Rd. 4. Enhances efficiency of east-west inter-district movement 5. Connects east and west Hawaii ports (air, sea)
14 S	Waimea Bypass (Lalaimilo Sec.)	Mamalahoa Highway to Queen Kaahumanu Highway	New two-lane highway with separate turn lanes at major intersections (b)	\$76.8	1. Links Mud Lane and Kawaihae Bypass 2. Relieves congestion along other routes 3. Opens up State/DHHL lands in Lalaimilo 4. Supports economic development potentials
16 C/S	Waimea-Kawaihae Road	Kohala Mountain Road to Mamalahoa Highway (including section of Lindsey Road)	Widen existing two-lane highway to four-lane divided highway with improvements as required at intersections	\$6.6	1. Addresses projected deficiency 2. Future need for 2 to 4 additional lanes in corridor 3. Need for project may be off-set by Lalaimilo segment of proposed Waimea Bypass
18b S	Kanoelohua Avenue (HWY 11)	Puainako Street to Makalika Street	Widen existing four-lane divided highway to six-lane divided highway, including intersection improvements as required	\$7.7 (a)	1. Addresses existing deficiency 2. Future need for 6 to 8 additional lanes in corridor 3. Funding for project is committed

TABLE 7-3
HAWAII LONG RANGE LAND TRANSPORTATION PLAN
MAJOR HIGHWAY CAPACITY FUTURE IMPROVEMENTS BY SUGGESTED FUNDING TIER

No.	Facility	Location	Description/Improvements	Cost (in millions)	Comments/Discussion
<i>Tier 4 (Unfunded Projects)</i>					
3b S	Hawaii Belt Road (HWY 19)	Honouliuli to Honokaa	Widen existing two-lane highway to provide passing lanes as well as intersection and safety improvements	\$65.2	1. Addresses projected deficiency 2. Future need for 2 additional lanes 3. Saddle Road project should help relieve Hwy 19
8a C	Komohana Street Extension	Leimama Street to Hawaii Belt Road (Volcano Highway)	New two-lane highway with separate turn lanes at major intersections	\$21.2	1. Addresses projected deficiency 2. Potential alternative to Railroad Avenue Extension
8b C	Komohana Street Extension	Waiuanue Ave to Hawaii Belt Road via Wainaku Road.	New two-lane highway with separate turn lanes at major intersections	\$11.7	1. Addresses projected deficiency 2. Requires crossing of Waiuku River 3. Impacts existing urban and agricultural land uses
9 C	North Kulani Road	Hawaii Belt Road to Stainback Highway	Reconstruct existing two-lane road to current design and safety standards (in conjunction with Project No. 12)	\$7.1	1. Addresses projected deficiency 2. Links with proposed Stainback Hwy improvements 3. Immediate need addressed by other projects
10 C	Paniolo Drive Extension	Paniolo Drive terminus to Waimea-Kawaihae Road	New two-lane highway with separate turn lanes at major intersections	\$25.0	1. Relieves congestion along other routes
11b C	Railroad Avenue Extension	Hawaiian Paradise Park Subdivision to Kahakai Blvd. (Hawaiian Beaches)	New two-lane highway with separate turn lanes at major intersections	\$17.1	1. Relieves projected deficiency 2. Immediate need addressed by other improvements
12 S*	Stainback Highway	North Kulani Road to Hawaii Belt Road	Reconstruct existing roadway to a two-lane highway conforming to current design standards (in conjunction with Project No. 9)	\$12.0	1. Relieves projected deficiency 2. Linked to North Kulani Road improvement 3. Immediate need addressed by other projects
15 C	Waimea Connector Road	Mamalahoa Highway/Kamamalu Street intersection to Kamuela Race Track	New two-lane highway with separate turn lanes at major intersections	\$7.1	1. Relieves projected deficiency in Waimea Village 2. Waimea Bypass should off-set some congestion 3. Private sector participation needed to implement