



2015-19 (FY2015) 5 Year Road Plan

March 2015

Presentation Overview

- Team Introduction
- 2014/15 (FY2014) Progress against Plan
- Building FY 2015-19 Plan
- Expected View at 2020
- Road Plan Details
- Items Needed for Success





BCWCID Road Committee & Unit Assignments

- Tyler Walsh – BCWCID Operation Manager
- Sam Kier – Committee Chairman – Unit 1
- Jon Eden – Unit 2
- Tammy Eden – Unit 3
- Mary Jo Creamer – Unit 4
- Pierre Wilson – Unit 5
- Alma Rodriguez – District's Administrator
- John Creamer – BCWCID Board President

Brief Review of Main Process Changes Last Year

- Road Selection changed to Prioritization by Highest Home Density
 - Home Density is defined by the highest # of homes per feet of street where the smallest Home Density factor = the highest density of homes
 - 8 homes/1000 feet of street (or 125 Home Density) is prioritized above 4 homes/1000 feet of street (or 250 Home Density)
- Other Factors Used for Selection
 - Roads within Fire Area where Fire Money awarded by State can be used
 - Feeder Streets where multiple highly populated roads feed thru a lesser populated road
 - Emergency Needs /Bus Routes
- 70% of Road Fees collected to be used for Road Construction; 30% for Road Maintenance
 - Roads not on the 5 year Plan for Construction will be repaired using available Road Maintenance Funds

Original Approved Road Projects – 2014

Unit	Collector Road	Total Paved	Street	Length Ft	Homes	Feet Between Homes	Average using all roads serviced by feeder	Original Plan	Off CTY Road	Existing Condition	Bus Route Y/N	Comments
3		2060	Kalalea	2060	24	86	86 P		X		4 No	Off Keanahalululu
4		2800	Ulupau & Kalama	2800	12	233	233 P		X		4 No	Fire Damaged Road with Drop Offs
5		2400	Lamalaoa	2400	9	267	267 P		X		4 No	Western Portion currently not paved
1		400	Lei Ct	400	6	67	67		X		3 No	Off Kona
2	Collector	3150	Alele	3150	13	242	197 P		X		3 Yes	Off Tahitian
2			Paia Ct	450	1	450	P/Not Accepted				4 No	Only 1 house on cul-de-sac with 1 other being built.
2		200	Peahi Ct	200	3	67	p		X		3 No	Off Alele
2	Feeder	320	Umipaa	320	1	320	29		X		3	Feeder Road for Papawai, Koae Ct gives 29ft per house.
2			Papawai Dr	2430	7	347					3	
2			Koae Ct	220	3	73					4	
	Total	11330										

Planned 2.14 Miles Road Construction

2014/15 (FY2014) Progress Against Plan

- Changes Made from FY 2014 Plan
 - Lamaloa delayed until FY2015 re: preparation issues – water lines
 - Keanahalululu & W. Wahane substituted for Lamaloa
 - County added Pahoia due to proximity of other work being done
 - BCWCID subcontracted for Ulupau/Kalama loop (Using Fire Funds)
 - Ulupau/Kalama loop had to be split into 2 Phases (FY2014, then FY2015/16) due to complexity of work to be done and costs.

Quick Adaptability was Key

Revised Road Projects – FY2014

Unit	CI/CT/Collector WD Road	Total Paved	Street	Length Ft	Homes	Feet Between Homes	Average using all roads serviced by feeder	Previous Year Plan	Existing Condition	Bus Route Y/N	Comments
3	CT	650	Pahoa	650	2	325	38	New	4		CT added to orig plan
3	CT	2060	Kalalea	2060	27	76		2014/15	4	No	Off Keanahalululu
4	WD	800	Ulupau & Kalama	800	5	160		2014/15	4	No	USE State \$. Circle path of Ulupau & Kalama from & to Three Lot only.
1	CT	400	Lei Ct	400	6	67		2014/15	3	No	Off Kona
2	CT Collector	3150	Alele	3150	13	242	180	2014/15	3	Yes	Off Tahitian
2	CT		Paia Ct	450	2	225			4	No	
2	CT	200	Peahi Ct	200	3	67		2014/15	3	No	Off Alele
2	CT Feeder	320	Umipaa	320	1	320	29	2014/15	3	No	Off Akaloa
2			Papawai Dr	2430	7	347			3	No	
2			Koae Ct	220	3	73			4	No	
2	CT Collector	1374	Wahane - W. of Akaloa	1374	7	196	47	2015/16	3	No	Off Akaloa. Moved forward to replace Lamaloa
4			Huelo Ct	350	4	88			4		
2			Hekili	3450	8	431			2		
4			Koko Ct	450	2	225			3		
4			Keaau Ct	800	4	200			4		
4			Nanakuli Dr	1250	5	250			3		
4			Kaupa Ct	400	2	200			3		
3		1500	Keanahalululu	1500	12	125		2015/16	4	No	On flats- dead ends at railroad. Moved forward to replace Lamaloa
Total		10454		Homes Paved	76						
County	1.83 miles			Homes with Improved Access	35						
City	0 miles										
WD	0.15 miles										
Total	1.98										

**Maintained 2 Mile Commitment
(Changes from FY2014/19 Plan are placed in Bold font)**

2014/15 (FY2014) Progress Against Plan

- Results of Actual FY 2014/15 Progress
 - Completing 1.98 Miles of Road (vs 2.14 Miles Planned)
 - Increased # of Homes that will on newly paved County/City Approved Roads to 76 homes (vs 68 originally Planned)
 - Increased # of Homes with improved access on newly paved Roads by 35 homes (vs 11 originally Planned)

**1st Year under New Road Plan Criteria
Process A Success!**

Data Assessed to Build New 5 Year Plan

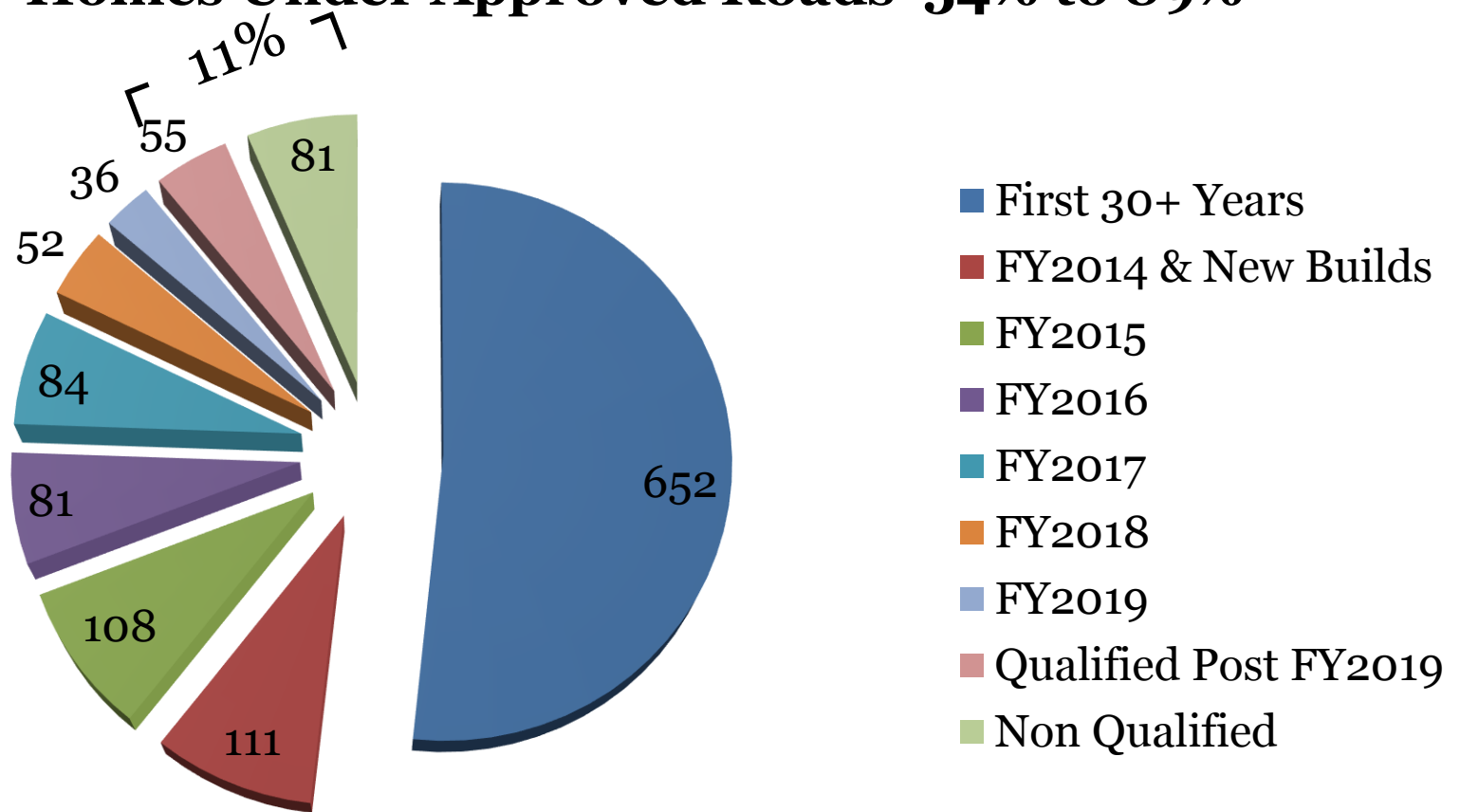
- Bastrop WCID Master Plan by BEFCO (Updated with FY2014-15 Paved Rd Data)
 - Streets Paved within each Unit (by Feet)
 - Streets Not Paved within each Unit (by Feet)
- List of Active Water Meters (Updated with New Home Builds in 2014)
 - Houses on Paved streets
 - # of Houses on Unpaved streets
 - Feet of Unpaved Street divided by # of Houses on that Street
- Bastrop Bus Routes (Remains the same)
- BCWCID Maps (Updated with New Road Paved Data)
 - Connection to County Roads
 - Collector Streets
 - Feeder Streets & the streets that feed into each (where other streets access a feeder street to get out of their area)

Key Factors in Building FY2015/19 5 Year Plan

- Minimize changes to FY2014/18 Plan for another 2 years (15/16 & 16/17)
 - Let's stay the course, improve relationships with providers and prove out our plan!
 - Lock down next 2 years to begin surveys and needed prep work
- When Planning FY2017/21 - take into consideration all new builds and reprioritize again ALL roads for construction based on home density.
- Pave Streets with High Home Density where work is already planned on an adjacent road - as long as it doesn't totally disrupt the next 2 years
 - Sample- When paving Pahalawe, Add Kaapahu to be paved (an adjacent road) since home density has recently improved due to new home builds.

Road Construction Progress & Progression - 1260 Homes

Homes Under Approved Roads 54% to 89%



Proposed Road Projects – 2015/16 (FY2015)

Unit	Collector Road	Total Paved	Street	Length Ft	Homes	Feet Between Homes	Average using all roads serviced by feeder	Previous Year Plan	Existing Condition	Bus Route Y/N	Comments
1	CT	1100	Papaloa Lane	1100	10	110	94	2015/16	3 No	No	Off Kona
1	CT	220	Pele Ct	220	4	55		2015/16	3 No	No	Ct off of Papaloa
1	CI Collector	950	Olaa	950	4	238	133	2015/16	2 No	No	Use City \$\$ to Complete Feeder road to 3 main populated areas.
1	CI	750	Pahala Ct	750	10	75		2015/16	3 No	No	Off Feeder road Olaa.
1	CI	650	Homonu Ct	650	4	163		2015/16	3 No	No	Off Feeder road Olaa.
2	CT	1440	Kanaio	1440	21	69		2015/16	3 No	No	Off Koloiki
2	CT	2120	Kaupo	2120	16	133		2015/16		No	Off Koloiki
5	CT	1800	Lamalao	1800	9	200		2014/15	4 No	No	Easement issues caused 1 year delay. Paving between Nuuanu and Nuuanu
4	CT	2120	Konahuanui Lane	2120	13	163		2015/16	3 No	No	Between Akaloa & MokuManu
4	WD	2000	Ulupau & Kalama Phase II	2000	8	250		2014/15	4 No	No	Complete remaining 2000 ft of 2800 circle path of Ulupau & Kalama from & to Three Lot only.
3	CT	450	Haou	450	3	150		New		No	County Paving Riverside. Rd nxt to Riverside
3	CT	980	Upola	980	6	163		New		No	County Paving Riverside & asked this to be added to 2015 plan. Rd nxt to Riverside
Total		14580		Homes Paved	108						
County	1.93 miles										
City	0.45 miles										
WD	0.38 miles	Completing	Ulupau								
Total	2.76										

County – While Paving Riverside adding adjacent Upola/Haou Phase II Ulupau/Kalama by WD using Fire \$\$

Proposed Road Projects – 2016/2017 (FY2016)

Unit	Collector Road	Total Paved	Street	Length Ft	Homes	Feet Between Homes	Average using all roads serviced by feeder	Previous Year Plan	Existing Condition	Bus Route Y/N	Comments
1	CT Feeder	1640	Pahoiki Lane	1640	14	117	105	2016/17	3 No		Off Kaanapali
1	CT	160	Kou	160	3	53		2016/17	No		Ct off Pahoiki
2	CT Feeder	1450	Pahihi North	1450	8	181	68	2016/17	3 No		South Pahihi Previously Paved by County
2	CT	800	Kaena Lane	800	7	114		2016/17	2 No		Off N. Pahihi
2			Awehi Lane	1320	4	330			3		
2			Koolua Dr	2090	7	299			3		
2			Haleakala Dr	2200	1	2200			4		
2			Kaenapapa	800	2	400			3		
2			Laaui Ct	650	4	163			4		Not off county Road. Off Haleakala
2	CT Feeder	2430	S. Papawai Dr	2430	7	347	203	2016/17	No		Between Wahane & Umipaa
2	CT	220	Koae Ct	220	3	73		New	No		Off Papawai
2	CT	350	Huelo Ct	350	4	88		2016/17	No		Off Papawai
3	CT	1700	Haliimaile	1700	23	74		2016/17	4 No		Between Keanahalululu and Airport
4	CT	900	Anahulu Lane	900	5	180		2016/17	4 No		Off Akaloa
5	CT	900	Mokulua Lane	3230	3	1077	228	2016/17	4 1 stop		Bus goes down between Pohakuloa and Waikakaaua. Pave only between those 2 streets
5	CT	700	Waimalu	700	3	175		2016/17	No		Off Mokulua
5	CT	420	Kipapa Ct	420	2	210		New	4 No		Access Issues to Homes. Pave while paving adjacent road
Total		11670			Homes Paved	81					
CT	1.6	miles			Homes with Improved Access	18					
CI	0	miles									
WD	0.6	miles									
Total	2.2										

**Two Additions for 0.125 miles Adjacent Roads
(Koae Ct & Kipapa Ct)**

Proposed Road Projects – 2017/2018 (FY2017)

Unit	Collector Road	Total Paved	Street	Length Ft	Homes	Feet Between Homes	Average using all roads serviced by feeder	Previous Year Plan	Existing Condition	Bus Route Y/N	Comments
1	CT	850	Kulua Ct	850	6	142		2017/18	3 No		Off Kaanapali
1	CT Feeder	700	Kawela	700	2	350	152	2017/18	No		Off Kamakoa
1	CT	750	Lai	750	7	107		2017/18	No		Off Kawela
1	CT	830	E & W Kamoi	830	6	138		2017/18	No		Off Kawela
1	CT	400	Kimo Ct	400	5	80		2017/18	No		Off Kaanapali
2	CT Collector	1100	Pahalawe Lane	1100	4	275	50	2017/18	3 Yes		Off Tahitian
			Alele	3150	13	242			Yes		Already Paved
			Pukoo	1950	6	325					
	CT	1740	Kaapahu	1740	8	218		New		No	Between Alele & Pahalawe
											** Current Easement issues need addressed. Between Keanahalululu and Airport
3	CT	1360	Kokomo	1360	24	57		2017/18	4 No		Airport
3	CT	500	Kaeleku	500	6	83		2017/18	4 No		Off Airport Rd
4	CT	3150	Kaelepulu Dr	3150	16	197		2017/18	2 No		Only pave the 3150 ft starting at Akaloa, not the 2200 from MokuManu. Between Akaloa & MokuManu
Total		11380			Homes Paved	84					
					Homes with Improved Access	19					
CT	1.6										
CI											
WD	0.56										
Total	2.16										

**Only Change = Added Kaapahu
(adjacent to Road Being Paved and recent Home Builds improves HD factor)**

Proposed Road Projects – 2018/2019 (FY2018)

Unit	Collector Road	Total Paved	Street	Length Ft	Homes	Feet Between Homes	Average using all roads serviced by feeder	Previous Year Plan	Existing Condition	Bus Route Y/N	Comments
2	CT	1000	Onini	1000	4	250		2018/19	4 No	No	Off Kaanapali
4	CT	800	Keaau Ct	800	4	200		2018/19	4 No	No	Off Wahane
4	CT	1250	Nanakuli Dr	1250	5	250		2018/19	3 No	No	Off Wahane
4	CT	1221	South Mokuleia Cr	1221	5	244		2018/19	4 No	No	Only completing bottom half (1221 of 2500 ft) due to flooding issues on bottom half of road. Off Akaloa.
5	CT	760	Keanahalululu Ln	760	12	63		2018/19	3 No	No	Eastern end up hill. Previous work paid to resurface in 2013.
5	CT	1700	Maunaloa	1700	9	189		2018/19	5 No	No	Off Lamoloa
4	CT	200	Oah Ct	200	3	67		New		No	Off Akaloa
2	CT	2430	Kahalulu dr	2430	7	347		2018/19	3 No	No	Off Kainalu (did not add the 500 feet at the end past the bad road (similar to Maiwaninee)
3	CT	450	Kauai Ct	450	3	150		New		No	Off Akaloa
Total		9811		Homes Paved	52						
CT	1.6										
CI											
WD	0.25										
Total	1.85										

**Only Change = Added Oah Ct & Kauai Ct
(New Home Builds improved Home Density Factors)**

Proposed Road Projects – 2019/2020 (FY2019)

Unit	Collector Road	Total Paved	Street	Length Ft	Homes	Feet Between Homes	Average using all roads serviced by feeder	Previous Year Plan	Existing Condition	Bus Route Y/N	Comments
2	CT	2300	Kipahulu	2300	8	288		New	3	No	Off Kainalu (did not add the 500 feet at the end past the bad road (similar to Maiwaninee)
2	CT	1950	Pukoo	1950	6	325		New	3	No	Between Pahalawe & Alele
2	CT	1200	Koali	1200	4	300		New	3	No	Between Kaanapali & Alele
2	CT	1320	Awehi Lane	1320	4	330		New	3	No	Off N. Wahane
2	CT	2090	Koolua	2090	6	348		New	3	No	Off Awehi Lane
5	CT	2400	Puu Waa Waa	2400	8	300		New		No	Between Lamaloa & Diamond Head
Total		11260		11260							
CT	1.6			Homes Paved	36						
CI											
WD	0.53										
Total	2.13	Total Miles Paved 2015-2020	11.1 Miles Avg 2.2 Miles/Year	Total Homes Paved 2015-2020	361						

**Selected New Roads with Highest Home Density
for New Year Added**

New 5 Year Plan – Items Needed for Success

Factors Affecting Maximum Allowable Annual Road Construction

1. Total Funds Collected from Road Fees and other sources needs to remain constant or grow 2016-2020. After 2020, might possibly consider lowering fees.
2. Annual % of Road Fees used for Road Repair vs Road Pavement Construction should remain 30/70 for next few years. Then reassess , depending on need.
3. BCWCID will need to subcontract for up to .5 mile of roads to be completed each year unless County can agree to take on more than 1.6miles/year.
4. Significant changes for Materials and/or Project Costs may affect our planned pace of construction.
5. Resources/Equipment availability by County and/or City are critical to our success.
6. Surveys for all roads to be completed in 2015/16 (FY2015) and 2016/17 (FY2016) need to be done asap. This will allow for pre-work by BCWCID needed before the County & City begin.
7. Interlocal agreement for 2015/16 work needs to be crafted and ready for County / City review by early April. Any delays hamper their ability to budget correctly and could impact our immediate plans.



THANK YOU

Commissioner Pina from Bastrop County Precinct 1

Trey Job from City of Bastrop

Tyler Walsh with BCWCID

& ALL Your Crews

For Your Tremendous Cooperation & Teamwork