



Appendix E – Yellow, Flash Don't Walk Intervals and Minimum Green Intervals for Bicycles Analyses

City of Lafayette
Pleasant Hill Road Corridor Study
Yellow and Flash Don't Walk Analyses

Intersection		Existing Timings								Calculated Timings				Proposed Timings			
#	Intersection Name	Direction	Phase	Crossing Distance ¹ (ft)	Posted Speed Limit (mph)	Walk (sec)	FDW (sec)	Yellow (sec)	All-Red (sec)	FDW ² (sec)	Calc FDW < Exist FDW?	CA MUTCD 2014 Yellow (sec)	Calc Yellow < Exist Yellow?	Walk (sec)	FDW (sec)	Yellow (sec)	All-Red (sec)
1	Pleasant Hill Road/Rancho View Drive	NB	2	-	40	-	-	4.0	1.0	-	No	4.4	No	-	-	4.4	1.0
		SB	6	-	35	-	-	4.0	1.0	-	No	4.1	No	-	-	4.1	1.0
		EB	4	88	25	5	20	3.0	1.0	22	No	3.6	No	5	22	3.6	1.0
		WB	4	-	25	-	-	3.0	1.0	-	No	3.6	No	-	-	3.6	1.0
2	Pleasant Hill Road/Greenvalley Drive	NB	6	55	40	7	15	4.0	1.0	11	YES	4.4	No	7	15	4.4	1.0
		SB	2	-	35	-	-	4.0	1.0	-	No	4.1	No	-	-	4.1	1.0
		EB	4	-	25	-	-	3.0	1.0	-	No	3.6	No	-	-	3.6	1.0
		WB	4	86	25	5	21	3.0	1.0	21	No	3.6	No	5	21	3.6	1.0
3	Pleasant Hill Road/Reliez Valley Road	NB	6	-	40	-	-	4.0	1.0	-	No	4.4	No	-	-	4.4	1.0
		SB	2	44	35	5	14	4.0	1.0	8	YES	4.1	No	5	14	4.1	1.0
		EB	8	74	30	7	16	3.0	1.0	18	No	3.7	No	7	18	3.7	1.0
4	Pleasant Hill Road/Springhill Road	NB	6	32	35	7	10	3.6	0.5	6	YES	4.1	No	7	10	4.1	0.5
		SB	2	47	35	7	10	3.6	0.5	10	No	4.1	No	7	10	4.1	0.5
		EB	8	76	25	7	18	3.0	0.5	19	No	3.6	No	7	19	3.6	0.5
		WB	4	-	25	-	-	3.0	0.5	-	No	3.6	No	-	-	3.6	0.5
5	Pleasant Hill Road/Stanley Boulevard/Deer Hill Road	NB	6	52	35	5	15	4.0	1.0	10	YES	4.1	No	5	15	4.1	1.0
		SB	2	52	35	5	15	4.0	1.0	10	YES	4.1	No	5	15	4.1	1.0
		EB	8	85	35	5	20	3.0	1.0	21	No	4.1	No	5	21	4.1	1.0
		WB	4	-	25	-	-	3.0	1.0	-	No	3.6	No	-	-	3.6	1.0

Notes:

¹Crossing Distance is the measured distance (in feet) from Shortest Crossing Distance

²FDW Calculation is based on (Crosswalk Length (ft))/3.5 (ft/s) - Yellow - All Red.

³ Pleasant Hill Road is assumed to be the N/S street for all intersections

City of Lafayette
Pleasant Hill Road Corridor Study
Minimum Green Timing Evaluation for Bicycle Crossing

Intersections	Direction	Phase	Distance from limit line to far side of last conflicting lane (ft)	Yellow	All Red	Minimum Green Time					
						Existing (sec)	Proposed (sec)		Final		
1. Pleasant Hill Road/Rancho View Drive	NBT	2	67	4.4	1.0	10.0	5.6	6.0	10.0	OLD	
	NBL	5	87	4.4	1.0	4.0	6.9	7.0	7.0	NEW	
	SBT	6	67	4.1	1.0	10.0	5.9	6.0	10.0	OLD	
	EBT	4	79	3.6	1.0	4.0	7.2	7.0	7.0	NEW	
	EBL	4	114	3.6	1.0	4.0	9.6	10.0	10.0	NEW	
	WBT	4	79	3.6	1.0	4.0	7.2	7.0	7.0	NEW	
	WBL	4	100	3.6	1.0	4.0	8.6	9.0	9.0	NEW	
2. Pleasant Hill Road/Greenvalley Drive	NBT	6	94	4.4	1.0	10.0	7.4	7.0	10.0	OLD	
	NBL	1	114	4.4	1.0	4.0	8.8	9.0	9.0	NEW	
	SBT	2	89	4.1	1.0	10.0	7.4	7.0	10.0	OLD	
	SBL	5	103	4.1	1.0	4.0	8.3	8.0	8.0	NEW	
	EBT	4	98	3.6	1.0	4.0	8.5	8.0	8.0	NEW	
	EBL	4	120	3.6	1.0	4.0	10.0	10.0	10.0	NEW	
	WBT	4	97	3.6	1.0	4.0	8.4	8.0	8.0	NEW	
3. Pleasant Hill Road/Reliez Valley Road	WBL	4	147	3.6	1.0	4.0	11.8	12.0	12.0	NEW	
	NBT	6	70	4.4	1.0	10.0	5.8	6.0	10.0	OLD	
	NBL	1	114	4.4	1.0	4.0	8.8	9.0	9.0	NEW	
	SBT	2	81	4.1	1.0	10.0	6.8	7.0	10.0	OLD	
	EBL	8	93	3.7	1.0	4.0	8.0	8.0	8.0	NEW	
	4. Pleasant Hill Road/Springhill Road	NBT	6	68	4.1	0.5	10.0	6.4	6.0	10.0	OLD
		NBL	1	100	4.1	0.5	4.0	8.6	9.0	9.0	NEW
SBT		2	68	4.1	0.5	10.0	6.4	6.0	10.0	OLD	
SBL		5	97	4.1	0.5	4.0	8.4	8.0	8.0	NEW	
EBT		8	98	3.6	0.5	4.0	9.0	9.0	9.0	NEW	
EBL		8	130	3.6	0.5	4.0	11.2	11.0	11.0	NEW	
WBT		4	96	3.6	0.5	4.0	8.8	9.0	9.0	NEW	
5. Pleasant Hill Road/Stanley Boulevard/Deer H	WBL	4	121	3.6	0.5	4.0	10.5	11.0	11.0	NEW	
	NBT	6	80	4.1	1.0	10.0	6.8	7.0	10.0	OLD	
	NBL	1	88	4.1	1.0	4.0	7.3	7.0	7.0	NEW	
	SBT	2	74	4.1	1.0	10.0	6.3	6.0	10.0	OLD	
	SBL	5	103	4.1	1.0	4.0	8.3	8.0	8.0	NEW	
	EBT	8	81	4.1	1.0	4.0	6.8	7.0	7.0	NEW	
	EBL	8	123	4.1	1.0	4.0	9.7	10.0	10.0	NEW	
	WBT	4	81	3.6	1.0	4.0	7.3	7.0	7.0	NEW	
	WBL	4	103	3.6	1.0	4.0	8.8	9.0	9.0	NEW	

Note:
For Permissive and Split Phases, Highest of the Minimum Green Interval calculated from all turn movements will be used.