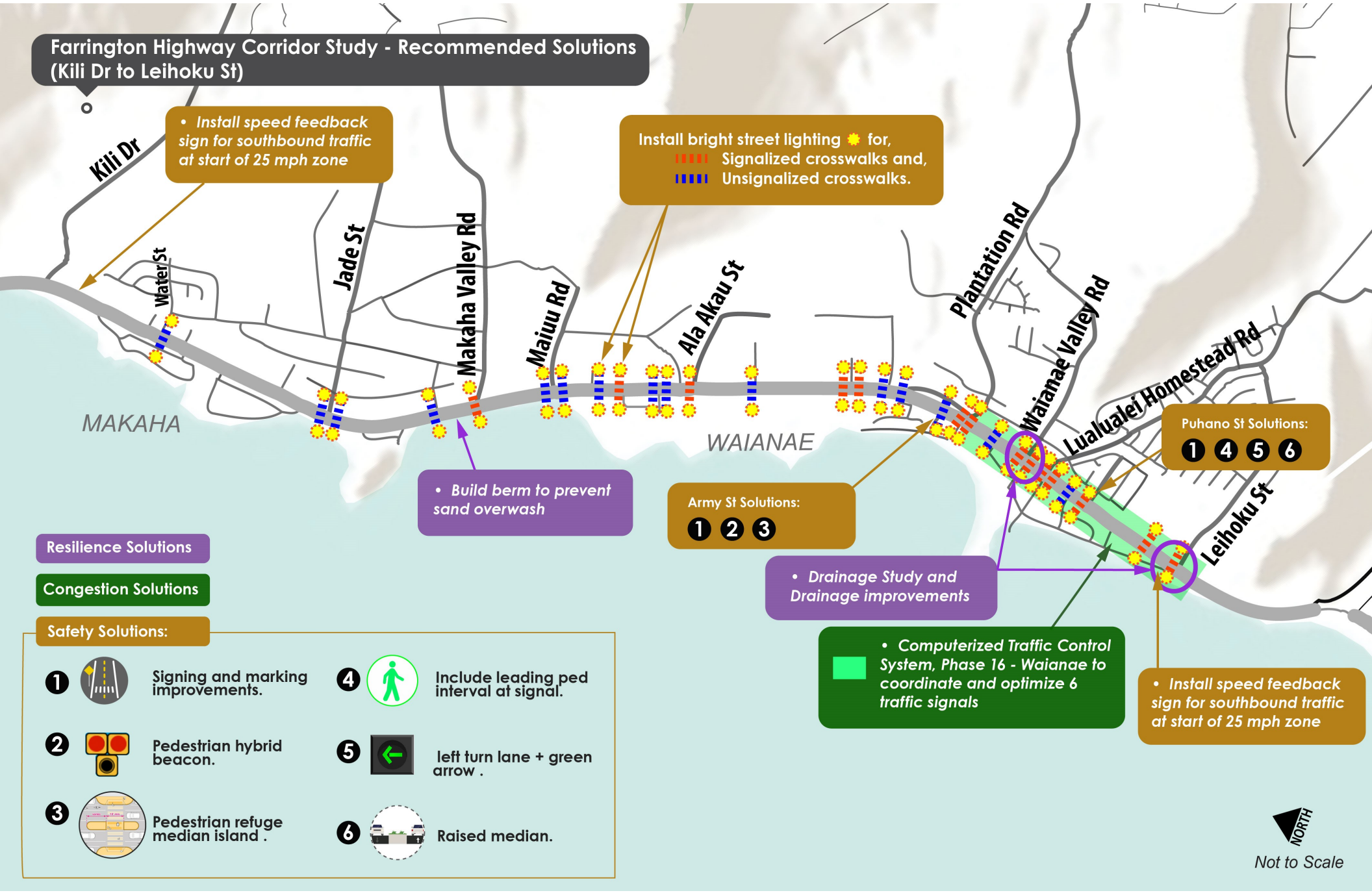
Farrington Highway Corridor Study - Recommended Solutions
(Kili Dr to Leihoku St)
Kili Dr
• Install speed feedback sign for southbound traffic at start of 25 mph zone
Water St
Jade St
Makaha Valley Rd
Maiuu Rd
Ala Akau St
Install bright street lighting for,
Signalized crosswalks and,
Unsignalized crosswalks.
Plantation Rd
Waianae Valley Rd
Lualualei Homestead Rd
Leihoku St
MAKAHA
WAIANAE
• Build berm to prevent sand overwash
Army St Solutions:
1 2 3
Puhano St Solutions:
1 4 5 6
• Drainage Study and Drainage improvements
• Computerized Traffic Control System, Phase 16 - Waianae to coordinate and optimize 6 traffic signals
• Install speed feedback sign for southbound traffic at start of 25 mph zone
Resilience Solutions
Congestion Solutions
Safety Solutions:
1 Signing and marking improvements.
2 Pedestrian hybrid beacon.
3 Pedestrian refuge median island .
4 Include leading ped interval at signal.
5 left turn lane + green arrow .
6 Raised median.
NORTH
Not to Scale

Farrington Highway Corridor Study - Recommended Solutions (Kili Drive to Leihoku Street) - Makaha/Waianae
June 2020

SAFETY

Install pedestrian countdown timers at both Puhano crosswalks	$	10,500	
Install pedestrian RRFB with advanced yield or stop markings and signs at Army St	$	17,400	
Install ped refuge raised median island at Army St	$	26,500	
Raised Median at Puhano St.	$	43,000	
Verify traffic signal yellow and red times meet ITE Recommended Practice		HDOT/C&C	
Modify signal phasing (implement a leading pedestrian interval)	$	400	
Implement systemic signing and marking improvements at Army St	$	7,000	
Implement systemic signing and visibility improvements at Puhano St	$	7,000	
Increase retroreflectivity of STOP signs at 7 Stop Controlled intersections	$	9,200	
Increase illuminance from low (<0.2 fc) to Medium >0.2 fc and <1.1 fc) @ 20 crosswalks	$	713,400	
Install dynamic speed feedback sign for 3 lanes (in 2 locations)	$	33,000	

CONGESTION

Computerized Traffic Control System Phase 16 - Waianae	$	3,800,000	City & County of Honolulu project

RESILIENCE

Focused Drainage Study to propose solutions for flooding at Leihoku St	$	112,000	
Focused Drainage Study to propose solutions for flooding at Waianae Valley Road	$	134,000	
Plan and build rock veneer wall 500 ft x 4 ft high to prevent sand and wave overwash in Makaha	$	1,390,000	
	$	**6,303,400**	**STIP plus new improvements**
	$	**2,503,400**	**New improvements only**

Farrington Highway Corridor Study - Recommended Solutions (Kili Drive to Leihoku Street) - Makaha/Waianae
June 2020

MAKAHA/WAIANAE PHASING

1	**Short Term (6 mo - 2 years), within Right of Way, Low Cost**			
	Install pedestrian countdown timers at both Puhano crosswalks	$	10,500	
	Install pedestrian RRFB with advanced yield or stop markings and signs at Army St	$	17,400	
	Install ped refuge raised median island at Army St	$	26,500	
	Raised Median at Puhano St.	$	43,000	
	Verify traffic signal yellow and red times meet ITE Recommended Practice		HDOT/C&C	
	Modify signal phasing (implement a leading pedestrian interval)	$	400	
	Implement systemic signing and marking improvements at Army St	$	7,000	
	Implement systemic signing and visibility improvements at Puhano St	$	7,000	
	Increase retroreflectivity of STOP signs at 7 Stop Controlled intersections	$	9,200	
	Install dynamic speed feedback sign for 3 lanes (in 2 locations)	$	33,000	
		$	154,000	
1	**Short Term (6 mo - 2 years), within Right of Way, Medium Cost**			
	Increase illuminance from low (<0.2 fc) to Medium >0.2 fc and <1.1 fc) @ 20 crosswalks	$	713,400	
1	**Short Term (6 mo - 2 years), within Right of Way, Medium to High Cost**			
	Computerized Traffic Control System Phase 16 - Waianae	$	3,800,000	City & County of Honolulu project
2	**Intermediate Term (~2-5 years), Outside Right of Way, Medium to High Cost, Permitting needed**			
	Plan and build rock veneer wall 500 ft x 4 ft high to prevent sand and wave overwash in Makaha	$	1,390,000	
2	**Intermediate Term (~2-5 years), Within Right of Way, Medium to High Cost, Studies only**			
	Focused Drainage Study to propose solutions for flooding at Leihoku St	$	112,000	
	Focused Drainage Study to propose solutions for flooding at Waianae Valley Road	$	134,000	
		$	246,000	

NOTE: Estimated costs include 3-5% traffic control, 5-10% engineering/design, 10% mobilization and 30% contingency