

SYMBOLS AND ABBREVIATIONS

FED. ROAD DIST. NO.	STATE	FEDERAL AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
HAWAII	HAW.	99D-01-17	2022	28	35

¢	And	E	East	L	Length	S	South
@	At	EA, Ea., ea.	Each	lb., lbs., LBS.	Pound, Pounds	Sect.	Section
±	Baseline	EF	Each Face	LF, Lin. Ft.	Linear Feet/Foot	SF	Square Feet
⊥	Centerline	EFH	Each Face Horizontal	Longit.	Longitudinal	Sht.	Sheet
∅	Diameter	EFV	Each Face Vertical	LS	Lump Sum	Sim.	Similar
#	Number	EJ	Expansion Joint	Ltg. Std.	Lighting Standard	Sl.	Slope
±	Plus or Minus	El., Elev.	Elevation			Spc., Spg.	Spaces, Spacing
		Embed.	Embedded, Embedment			Spec.	Specification
AB	Anchor Bolt	EP	Edge of Pavement	Max.	Maximum	SS	Stainless Steel
AC	Asphaltic Concrete	EPS	Expanded Polystyrene	Min.	Minimum	Sta.	Station
Add.	Additional, Added	Eq.	Equal	Misc.	Miscellaneous	Stagg.	Staggered
Alt.	Alternate	Est.	Estimated			Std.	Standard
Approx.	Approximate	EVC	End of Vertical Curve			Stiff.	Stiffener
		EW	Each Way	N	North	Stirr.	Stirrup
		Ex., Exist.	Existing	NF	Near Face	Stl.	Steel
B, Bot., Bott.	Bottom	Exc.	Excavation	NIC	Not in Contract	Str.	Straight
Bal.	Balance	Excl.	Excluding	No.	Number	Struct.	Structure
Bet.	Between	Ext.	Exterior	NTS	Not to Scale	SY	Square Yard
BF	Both Faces, Back Face					Symm.	Symmetrical
BFE	Bottom of Footing Elevation			OB	Outbound		
Bk.	Back	F'c	Specified Strength of Concrete	oc	On Center		
Blt.	Bolt	FF	Far Face, Front Face	OD	Outside Diameter	T	Top
Bm.	Beam	Fin. Gr.	Finish Grade	O.F.	Outside Face	Tan.	Tangent
BOF	Bottom of Footing	FRP	Fiber Reinforced Plastic	Opn'g	Opening	T#B	Top and Bottom
BVC	Beginning of Vertical Curve	Ft.	Feet, Foot	O/S	Offset	Temp.	Temporary
BW	Both Ways	Ftg.	Footing			Thk.	Thick
				PB	Pull Box	TFE	Top of Footing Elevation
CBW	Concrete Barrier Wall			PC	Point of Curvature	TOD	Top of Deck
cc	Center to Center	Ga.	Gage, Gauge	PCC	Portland Cement Concrete	TOF	Top of Footing
CF	Cubic Feet	Galv.	Galvanized	PCF	Pounds per Cubic Foot	Tot.	Total
CFCW	Continuous Flashing Compound Waterproofing	GFRP	Glass Fiber Reinforced Polymer	Perf.	Perforated	TOW	Top of Wall Elevation
CIP	Cast-in-Place	Gr.	Grade	PI	Point of Intersection of Tangents	Transv.	Transverse
CJ	Control Joint	Grd.	Ground	PIVC	Point of Intersection of Vertical Curve	TS	Structural Tubing
Cl.	Class	GRP	Grouted Rubble Pavement			Typ.	Typical
Clr.	Clearance			PL	Plate	UNO	Unless Noted Otherwise
CLSM	Controlled Low Strength Material	Horiz., H	Horizontal	PLF	Pounds per Linear Foot	V, Vert.	Vertical
Conc.	Concrete	HS	High strength	PRC	Point of Reverse Curvature	Var.	Varies
Conn.	Connection	Ht.	Height	PSF	Pounds per Square Foot	VC	Vertical Curve
Const.	Construction	IB	Inbound	PSI	Pounds per Square Inch		
Const. Jt.	Construction Joint	ID	Inside Diameter	Pt., Pts.	Point, Points	W	West
Cont.	Continuous	I.F.	Inside Face	PT	Point of Tangency, Post Tensioned	w/	With
CY, Cu. Yd.	Cubic Yard	In.	Inch	PVC	Polyvinyl Chloride	W/C	Water/Cement Ratio
		Int.	Interior			WP	Work Point, Working Point
		Inv.	Invert	Q	Flow Rate	WS	Water Surface
						WW	Wing Wall
Det.	Detail	Jt.	Joint			WWR	Welded Wire Reinforcing
DI	Drain Inlet, Ductile Iron			R, Rad.	Radius		
Dia.	Diameter	K	Kips	Rdwy.	Roadway	Yr.	Year
Dim.	Dimension	KF	Kip Foot	Rebar	Reinforcing Bar		
Dist.	Distance	KLF	Kips Per Linear Foot	Ref.	Reference		
Dwg., Dwgs.	Drawing, Drawings	KSF	Kips Per Square Foot	Reinf.	Reinforced, Reinforcing, Reinforcement		
Dwls.	Dowels	KSI	Kips Per Square Inch	Req'd.	Required		
				Ret.	Retaining		
				RF	Rear Face		
				R/W, ROW	Right of Way		

ORIGINAL PLAN	SURVEY PLOTTED BY	DATE
NOTE BOOK	DESIGNED BY	
No.	QUANTITIES BY	
	CHECKED BY	

DRAWING NAME: Z:\00 ONCONG\18-016 FARRINGTON HWY DRG IMP (PAREN)\01 CAD\06-18-21 NEW EDR VELLUM\FD-5003.DWG PLOT TIME: 06-18-21 11:33 AM

RUSS S. MIYAHARA

LICENSED
PROFESSIONAL
ENGINEER

NO. 9444-S

HAWAII, U.S.A.

THIS WORK WAS PREPARED BY
ME OR UNDER MY SUPERVISION.

4-30-22

SIGNATURE EXPIRATION DATE OF THE LICENSE

STATE OF HAWAII
DEPARTMENT OF TRANSPORTATION
HIGHWAYS DIVISION

SYMBOLS AND ABBREVIATIONS

FARRINGTON HIGHWAY
Drainage Improvements
Vicinity of Leeward Community College
PROJECT NO. 99D-01-17

Scale: None Date: June 2021

SHEET No. S03 OF 6 SHEETS