<b>X</b>	Ana	DO	DITTO	HDOT	State of Hawaii Department	Pert.	Pertoratea		
9	At	Dwls.	Dowels		of Transportation	PL	Plate	Tan.	Tangent
5	Diameter	Dn.	Down	HS	High strength	PCC	Portland Cement Concrete	Temp.	Temporary
	Number	Dbl.	Double	HECO	Hawaiian Electric Company	PC	Point of Curvature	Thk.	Thick
	Number			TILOO	Hawalian Liectife Company			777.	
		DI D	Drain Inlet, Ductile Iron			PCF	Pounds per Cubic Foot	1	Тор
		Dwg., Dwgs.	Drawing, Drawings			PSF	Pounds per Square Foot	<i>T&amp;B</i>	Top and Bottom
br.	Abbreviation			IB	Inbound	PSI	Pounds per Square Inch	TFE	Top of Footing Elevation
d.	Additional, Added			In.	Inch	PLF	Pounds per Linear Foot	Tot.	Total
<b></b>	Alternate	Ε	East	ID	Inside Diameter	PI	Point of Intersection	Transv.	Transverse
?	Anchor Bolt	EA, Ea., ea.	Each	IF	Inside Face		of Tangents	TS	Structural Tubing
C	Asphaltic Concrete	EF	Each Face	Int.	Interior	PIVC	Point of Intersection of	Тур.	Typical
	•					FIVE		ryp.	Турісаі
pprox.	Approximate	EFH	Each Face Horizontal	Inv.	Invert		Vertical Curve		
4 <i>z</i> .	Azimuth	EFV	Each Face Vertical			PT	Point of Tangency		
		EP	Edge of Pavement			Pt., Pts.	Point, Points	Undergrd.	Underground
		ES	Edge of Shoulder	Jt.	Joint	PRC	Point of Reverse Curvature		
3k.	Back	EW	Each Way			PVC	Polyvinyl Chloride		
Bal.	Balance	Elec.	Electrical			Prestr.	Prestressed	Var.	Varies
R	Baseline	EMH	Electrical Manhole	K	Kips	P/S	Prestressed Strands	Vert., V	Vertical
)					•	•			
<i>Bm.</i>	Beam	El., Elev.	Elevation	KF	Kip Foot	PB	Pull Box	VC	Vertical Curve
rg., Brgs.	Bearing, Bearings	Emb.	Embankment	KSF	Kips Per Square Foot				
BVC	Beginning of Vertical Curve	EVC	End of Vertical Curve	KSI	Kips Per Square Inch				
et.	Between	Eq.	Equal	KLF	Kips Per Linear Foot	Rad., R	Radius	W/C	Water/Cement Ratio
3F	Both Faces, Back Face	Est.	Estimated			RF	Rear Face	w/	With
BW	Both Ways	Exc.	Excavation			Rebar	Reinforcing Bar	W	West
PFE	Bottom of Footing Elevation	Excl.		1	lenath	Ref.	Reference	wwF	Welded Wire Fabric
	·		Excluding	L	Length				
ot., Bott., B	Bottom	Exist., Ex.	Existing	lb., lbs., LBS.	Pound, Pounds	Reinf.	Reinforced, Reinforcing,	WP	Work Point, Working P
Pr.	Bridge	Exp., (E)	Expansion	Ltg. Std.	Lighting Standard		Reinforcement	WS	Water Surface
/t.	Bolt	EJ	Expansion Joint	LF, Lin. Ft.	Linear Feet/Foot	Req'd.	Required		
		Ext.	Exterior	LS	Lump Sum	Ret.	Retaining		
				Longit.	Longitudinal	Rt.	Right	Yr.	Year
`ant.	Cantilever			J	•	ROW	Right of Way		
iant. IP	Cast—in—Place	FF	Far Face. Front Face			Rdwy.	Roadway		
vII				1.1	Madified	Nany.	Noudhay		
	Centerline	f'c	Specified Compressive Strength	M	Modified				
G	Center of Gravity	·	of Concrete at 28 days	MH	Manhole				
rgs	Center to Gravity of Strands	f <b>'</b> ci	Specified Compressive Strength of	Мах.	Maximum	Sect.	Section		
С	Center to Center		Concrete at Time of Initial Prestress	Mech.	Mechanical	Sht.	Sheet		
<b>7.</b> .	Class	Ft.	Feet, Foot	Min.	Minimum	Sim.	Similar		
ir.	Clearance	Fig.	Figure	Misc.	Miscellaneous	SI.	Slope		
0	Clean Out	Fin. Gr.	Finish Grade	MPH	Miles Per Hour	S	South		Q. K. FUJ
				IVII I I	WINGS I GI TIOUT	Sna Sna	Spaces, Spacing		LICENSED PROFESSIONAL P
ol.	Column	(F)	Fixed			Spc., Spg.			PROFESSIONAL P ENGINEER
onc.	Concrete	FB	Flat Bar			Sprd.	Spread		NO. 8104-S
RM	Concrete Rubble Masonry	Ftg.	Footing	NF	Near Face	Spec.	Specification		AMA 1 11.5.
Conn.	Connection	FA	Force Account	Ν	North	SF	Square Feet		THIS WORK WAS DDEDADE
onst.	Construction	f <b>'</b> s	Ultimate Tensile Strength of Tendon	NIC	Not in Contract	SY	Square Yard		THIS WORK WAS PREPARE ME OR UNDER MY SUPERV
J	Control Joint	-		No.	Number	SS	Stainless Steel		A. ,
					Not to Scale	Std.	Standard		Sand K. Fyman
Const. Jt.	Construction Joint	•		1413	NOT TO SCUID				SIGNATURE EXPIRATION DATE OF THE
ont.	Continuous	Ga.	Gage, Gauge			Sta.	Station		
CF .	Cubic Feet	Galv.	Galvanized			Stiff.	Stiffener	<u> Filian and an </u>	
Y, Cu. Yd.	Cubic Yard	<i>GFRP</i>	Glass Fiber Reinforced Polymer	0/\$	Offset	Stirr.	Stirrup	ST DEPARTMEN	TATE OF HAWAII T OF TRANSPORTATION
		Gr.	Grade	oc	On Center	Stl.	Steel	HIG	HWAYS DIVISION
		Grd.	Ground	Opn'g	Opening	Str.	Straight	<u>SYMBOLS</u>	<u>AND ABBREVIATIONS</u>
o.t	Dotail	GRP		OB	Outbound	Struct.	Structure		
et.	Detail	GKP	Grouted Rubble Pavement						
ia.	Diameter			OD	Outside Diameter	SE	Super Elevation	Kalanianaole	Highway Improvemen
•	Diaphragm			OG	Outside Girder, Outbound Girder	Symm.	Symmetrical		'all at Makapuu, Oahi
•	- · - F · · · - 9 · · ·							•	· · · · · · · · · · · · · · · · · · ·
iaph.	Dimension	Ht.	Height					LANDARAL MID II	COLOCT NO NILL (1/1) 11
Viaph. Vim.	Dimension	Ht. (H)	•						
iaph.			Height Hinge Horizontal					Scale:	oject No. NH—072—1( Date: April 2 . S—2 OF 15 SHEETS

SYMBOLS AND ABBREVIATIONS

HDOT

State of Hawaii Department

Perf.

Perforated

DO

Ditto

FED. ROAD DIST. NO. STATE

FED. AID PROJ. NO.

HAW. NH-072-1(51) 2007 28

FISCAL SHEET TOTAL YEAR NO. SHEETS

