

WIRE SIZE (AWG)	PANEL 53-7										WIRE SIZE (AWG)	
	480/277 VOLTS, 3 PHASE, 4 WIRE 3P30A AMP MAIN BREAKER NEMA 4X, STAINLESS STEEL ENCLOSURE											
	MIN AIC: 14,000 MOUNTING: SURFACE											
CKT NO	USE	CKT POLE	BKR AMP	CONNECTED LOAD (KVA)			CKT AMP	BKR POLE	USE	CKT NO		
				PHASE A	PHASE B	PHASE C						
10	1	LIGHTS	1	20	0.6	0.6		20	1	LIGHTS	2	
10	3	LIGHTS	1	20		0.6	0.6	20	1	LIGHTS	4	
10	5	LIGHTS	1	20			0.6	0.6	20	1	LIGHTS	6
-	7	SPARE	1	20	-	-		20	1	SPARE	8	
-	9	PFB	1	-		-	-	-	1	PFB	10	
-	11	PFB	1	-			-	-	1	PFB	12	
-	13	PFB	1	-	-	-		-	1	PFB	14	
-	15	PFB	1	-		-	-	-	1	PFB	16	
-	17	PFB	1	-			-	-	1	PFB	18	
CONNECTED LOAD/PHASE TOTAL CONNECTED LOAD DEMAND FACTOR TOTAL DEMAND LOAD					1.2	1.2	1.2	SIMILAR FOR PANELS 53-9 AND 53-14				
					3.6	KVA						
					0.8							
					2.9	KVA=	3.5 AMPS					

WIRE SIZE (AWG)	PANEL 53-4										WIRE SIZE (AWG)	
	480/277 VOLTS, 3 PHASE, 4 WIRE 3P30A AMP MAIN BREAKER NEMA 4X, STAINLESS STEEL ENCLOSURE											
	MIN AIC: 14,000 MOUNTING: SURFACE											
CKT NO	USE		CKT POLE	BKR AMP	CONNECTED LOAD (KVA)			CKT AMP	BKR POLE	USE	CKT NO	
10	1	LIGHTS	1	20	0.6	-			20	1	SPARE	2
10	3	LIGHTS	1	20		0.6	-		20	1	SPARE	4
10	5	LIGHTS	1	20			0.6	-	20	1	SPARE	6
-	7	PFB	1	-	-	-			20	1	PFB	8
-	9	PFB	1	-		-	-		-	1	PFB	10
-	11	PFB	1	-			-	-	-	1	PFB	12
-	13	PFB	1	-	-	-			-	1	PFB	14
-	15	PFB	1	-		-	-		-	1	PFB	16
-	17	PFB	1	-			-	-	-	1	PFB	18
CONNECTED LOAD/PHASE					0.6	0.6	0.6	SIMILAR FOR PANELS 53-10, 53-16, AND 53-18				
TOTAL CONNECTED LOAD					1.8	KVA						
DEMAND FACTOR					0.8							
TOTAL DEMAND LOAD					1.5	KVA= 1.8 AMPS						

PANEL 53-3										480/277 VOLTS, 3 PHASE, 4 WIRE 3P30A AMP MAIN BREAKER NEMA 4X, STAINLESS STEEL ENCLOSURE										MIN AIC: 14,000 MOUNTING: SURFACE										WIRE SIZE (AWG)
WIRE SIZE (AWG)	CKT NO	USE			CKT POLE		BKR AMP		CONNECTED LOAD (KVA)						CKT AMP		BKR POLE		USE			CKT NO	WIRE SIZE (AWG)							
									PHASE A		PHASE B		PHASE C																	
10	1	LIGHTS			1	20	0.6	0.6							20	1	LIGHTS			2	10									
10	3	LIGHTS			1	20			0.6		0.6				20	1	LIGHTS			4	10									
10	5	LIGHTS			1	20							0.6		20	1	LIGHTS			6	10									
-	7	FUTURE TELECOM CABINET			2		0.5	-							-	1	PFB			8	-									
-	9					15			0.5		-				-	1	PFB			10	-									
-	11	SPARE			1	20							-		20	1	SPARE			12	-									
-	13	PFB			1	-	-	-							-	1	PFB			14	-									
-	15	PFB			1	-			-		-				-	1	PFB			16	-									
-	17	PFB			1	-							-		-	1	PFB			18	-									
CONNECTED LOAD/PHASE							1.7		1.7		1.2		SIMILAR FOR PANEL 53-19																	
TOTAL CONNECTED LOAD							4.6		KVA																					
DEMAND FACTOR							0.8																							
TOTAL DEMAND LOAD							2.9		KVA=		4.5		AMPS																	

PANEL 53-8												480/277 VOLTS, 3 PHASE, 4 WIRE		MIN AIC: 14,000		MOUNTING: SURFACE		WIRE SIZE (AWG)
												3P30A AMP MAIN BREAKER						
												NEMA 4X, STAINLESS STEEL ENCLOSURE						
WIRE SIZE (AWG)	CKT NO	USE	CKT POLE	BKR AMP	CONNECTED LOAD (KVA)			CKT AMP	BKR POLE	USE	CKT NO	WIRE SIZE (AWG)						
10	1	LIGHTS	1	20	0.6	—			20	1	SPARE	2	—					
10	3	LIGHTS	1	20		0.6	—		20	1	SPARE	4	—					
10	5	LIGHTS	1	20			0.6	—	20	1	SPARE	6	—					
—	7	FUTURE TELECOM CABINET	2	20	0.5	—			20	1	PFB	8	—					
—	9		1	15		0.5	—		—	1	PFB	10	—					
—	11	PFB	1	—			—	—	—	1	PFB	12	—					
—	13	PFB	1	—	—	—			—	1	PFB	14	—					
—	15	PFB	1	—		—	—		—	1	PFB	16	—					
—	17	PFB	1	—			—	—	—	1	PFB	18	—					
CONNECTED LOAD/PHASE					1.1	1.1	0.6	SIMILAR FOR PANEL 53-15										
TOTAL CONNECTED LOAD					2.8	KVA												
DEMAND FACTOR					0.8													
TOTAL DEMAND LOAD					2.3	KVA=	2.8							AMPS				

NOTE:

NEW PANELBOARDS SHALL BE LABELED WITH THEIR DESIGNATED POLE NUMBER (FOR LIGHT POLE 53-7, THE NEW PANELBOARD SHALL BE LABELED PANEL 53-7).

MICHELE N. ADDOLFO LICENSED PROFESSIONAL ENGINEER No. 10017-E HAWAII, U.S.A. THIS WORK WAS PREPARED BY ME OR UNDER MY SUPERVISION EXP 4-30-24 <i>Michele N. Addolfo</i> ECS,INC.	REVISION	DATE	DESCRIPTION	BY	APPROVED
	STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HARBORS DIVISION				
	JOB TITLE REPAIR LIGHT POLES AND PEDESTALS AT PIER 53 HONOLULU HARBOR, OAHU, HAWAII				
	SHEET TITLE PANEL SCHEDULES				
	DESIGNED BY: JC	JOB NUMBER S10859			SHEET E-13 18 of 18 SHTS.
	DRAWN BY: CAD				
	CHECKED BY: M.A.				
	DATE: 04/2023				
	SCALE: AS SHOWN				