BINDING EDGE

PANELBOARD 4EBP1 — 600 A BUS — SECTIONS: 1 — SURFACE MOUNTED
480/ 277V 3 PHASE 4 WIRE — 600 A MCB — LUGS: SINGLE — NEMA: 3R/12 SS
LOCATION: SITE SUBSTATION — 42,000 AIC — FEED: via 500kVA — NUMBER OF POLES: 48

	CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD			KVA	C.B.	SERVES	TYPE	CKT	
			NOT USABLE			73.1			219.28	400 / 3	PANEL 4EBP2	SF		
			NOT USABLE				73.1			---	---- SUB FEED			
			NOT USABLE					73.1		---	---- BACK SIDE OF RACK			
	1	MC	TVSS/SPD	30 / 2	0.05	0.0				60 / 3			2	
	3		----	---			0.0			---	----		4	
	5		----					0.0		---	----		6	
	7	MC	COMM POLE WCP1	30 / 2	5.00	3.0			0.50	20 / 1	HEATER	EH	8	
	9		----	---			2.5			20 / 1			10	
	11			---				0.0		20 / 1			12	
	13	LI	WHARF LITES WYL1 & WYL2	100 / 3	35.20	11.8			0.10	20 / 2	LIGHTING CONTACTOR PANEL 'LC1'	MC	14	
	15		----	---			11.8			---	---- LITING CTRL		16	
	17		----	---				11.7					18	
	19	LI	WHARF LITES WYL3 & WYL4	100 / 3	35.20	11.7							20	
	21		----	---			19.2		15.00	60 / 2	COMM POLES WCP2 THRU	MC	22	
	23		----	---				19.2		---	---- WCP4		24	
	25	SF	PANEL 4EBP3	200 / 3	40.00	13.3				/ 3	250AMP MAX		26	2
	27		---- SUB FEED	---			13.3			---	250AMP MAX		28	
	29		---- BY ENTRY GATE	---				13.3		---	250AMP MAX		30	
	31	LI	YARD LITES 1 THRU 4	100 / 3	17.60	5.9			0.01	30 / 3	METER	MC	32	
	33		----	---			5.9			---	----		34	
	35		----	---				5.9		---	----		36	
	37	LI	SEC LITES 1 THRU 4	60 / 3	5.00	11.9			30.80	100 / 3	PANEL 2EBP	SF	38	
	39		----	---			11.9			---	---- SUB FEED		40	
	41		----	---				11.9		---	---- VIA 75KVA XFMR		42	
						130.8	137.8	135.2			CALCULATED LOAD		432.0	KVA
											MAXIMUM AMPS PER PHASE		534.4	AMPS

NOTES:
1. EXISTING PANEL
2. SPACE FOR 250AMP FRAME CIRCUIT BREAKER.

PANELBOARD 4EBP3 — 50 A BUS — SECTIONS: 1 — SURFACE MOUNTED
480/ 277V 3 PHASE 4 WIRE — 50 A MCB — LUGS: SINGLE — NEMA: 1
LOCATION: ENTRY GATE — 10,000 AIC — FEED: 4EBP1 — NUMBER OF POLES: 42

CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD			KVA	C.B.	SERVES	TYPE	CKT
		MAIN MAIN	50 / 3		0.0					NOT USEABLE		
		MAIN	---			0.0				NOT USEABLE		
		MAIN MAIN	---				0.0			NOT USEABLE		
1		GUARD SHELTER	30 / 2		0.0				30 / 2	POLE 6,7		2
3		----	---			0.0			---	----		4
5		POLE 1,2,3,4,5,6,7	30 / 2				0.0		30 / 2	POLE 5 CAMERA		6
7		----	---		0.0				---	----		8
9		OFF	20 / 1			0.0			20 / 1	OFF		10
11		OFF	20 / 1				0.0		20 / 1	OFF		12
13		POWER TO XFMRS	30 / 2		0.0				50 / 3	PANEL 2EBP2 via		14
15		POLES 1,2,3,4,5 CAMERAS	---			0.0			---	30kVA XMFR		16
17		OFF	20 / 1				0.0		---			18
19					0.0							20
21						0.0						22
23							0.0					24
25					0.0							26
27						0.0						28
29							0.0					30
31					0.0							32
33						0.0						34
35							0.0					36
					0.0	0.0	0.0			CALCULATED LOAD	0.0	KVA
										MAXIMUM AMPS PER PHASE	0.0	AMPS

NOTES:
1. EXISTING PANEL

PANELBOARD 4EBP2 — 400 A BUS — SECTIONS: 1 — SURFACE MOUNTED
480/ 277V 3 PHASE 4 WIRE — 400 A MCB — LUGS: SINGLE — NEMA: 3R/12 SS
LOCATION: SITE SUBSTATION — 42,000 AIC — FEED: via 4EBP1 — NUMBER OF POLES: 42

	CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD			KVA	C.B.	SERVES	TYPE	CKT	
2	1	MN	REC CRANE MAINTENANCE	200 / 3	100.00	33.3				200 / 3	REC CRANE MAINTENANCE	NO	2	2
	3		---- NON-COINCIDENTAL	---			33.3			---	---- NON-COINCIDENTAL		4	
	5		---- OFF	---				33.3		---	---- OFF		6	
2	7	NO	REC CRANE MAINTENANCE	200 / 3		33.3			100.00	200 / 3	REC CRANE MAINTENANCE	NO	8	2
	9		---- NON-COINCIDENTAL	---			33.3			---	---- NON-COINCIDENTAL		10	
	11		---- OFF	---				33.3		---	---- OFF		12	
3	13	SF	PANEL 2EBP3	100 / 3	70.00	29.1			17.43	40 / 3	SOUTHEND CAPSTAN	MO	14	
	15		---- SUB FEED	---			29.1			---	---- 15HP		16	
	17		---- VIA 75KVA XFMR	---				29.1		---	----		18	
	19	SF	NORTHEND CAPSTAN	30 / 2	5.00	2.5			0.05	30 / 3	TVSS (SPD)	MC	20	
	21		---- PWR ZONE OFF	---			2.5			---	----		22	
	23		OFF	20 / 1				0.0		---	----		24	
	25	MO	NORTHEND CAPSTAN	40 / 3	17.43	8.3			5.00	30 / 2	SOUTHEND CAPSTAN	SF	26	
	27		---- 15HP	---			8.3			---	---- PWR ZONE		28	
	29		---- OFF	---				5.8					30	
	31		125AMP MAX			0.0					125AMP MAX		32	
	33		125AMP MAX				0.0				125AMP MAX		34	
	35		125AMP MAX					0.0			125AMP MAX		36	
	37		125AMP MAX			0.0					125AMP MAX		38	
	39		125AMP MAX				0.0				125AMP MAX		40	
	41		125AMP MAX					0.0			125AMP MAX		42	
						106.6	106.6	101.6			CALCULATED LOAD		219.3	KVA
											MAXIMUM AMPS PER PHASE		269.9	AMPS

NOTES:
1. EXISTING PANEL
2. NON-COINCIDENTAL LOADS
3. **EXISTING 'SOUTHEND TRAILER' CIRCUIT (30kVA) TRANSFORMER, RE-USE CIRCUIT BREAKER FOR NEW 75kVA TRAILER CIRCUIT.**

PANELBOARD 2EBP — 200 A BUS — SECTIONS: 1 — SURFACE MOUNTED
208/ 120V 3 PHASE 4 WIRE — 200 A MCB — LUGS: SINGLE — NEMA: 3R/12 SS
LOCATION: SITE SUBSTATION — 10,000 AIC — FEED: 4EBP1 via 75kVA — NUMBER OF POLES: 42

CKT	TYPE	SERVES	C.B.	KVA	CONNECTED PHASE LOAD			KVA	C.B.	SERVES	TYPE	CKT
1	RE	WHARF RECPT #1	20 / 1	0.18	1.2			2.00	20 / 2	WHARF RECPT #1	RE	2
3	RE	WHARF RECPT #2	20 / 1	0.18		1.2			---	----		4
5	RE	WHARF RECPT #3	20 / 1	0.18			0.3	0.10	20 / 1	CRANE CONTACTOR CTRL	MC	6
7	RE	WHARF RECPT #4	20 / 1	0.18	1.2			2.00	20 / 2	WHARF RECPT #2	RE	8
9	RE	WATER VAULT RECPT #1	20 / 1	0.25		1.3			---	----		10
11		GFI-30	20 / 1				0.0		20 / 1			12
13	RE	WATER VAULT RECPT #3	20 / 1	0.25	0.8			0.50	20 / 1	PANEL HEATER	EH	14
15			40 / 2			1.0		2.00	20 / 2	WHARF RECPT #3	RE	16
17			---				1.0		---	----		18
19		GFI-30	20 / 1		1.0			2.00	20 / 2	WHARF RECPT #4	RE	20
21	RE	WATER VAULT RECPT #4	20 / 1	0.25		1.3			---	----		22
23		GFI-30	20 / 1				0.2	0.18	20 / 1	RECPT	RE	24
25	SF	GUARD SHACK	80 / 2		0.1			0.10	15 / 1	CRANE CONTACTOR CTRL	MN	26
27		---- VIA PV1?	---			0.1		0.10	15 / 1	CRANE CONTACTOR CTRL	MN	28
29	LI	DOCK LIGHT	20 / 1				0.1	0.10	15 / 1	CRANE CONTACTOR CTRL	MN	30
31	MC	TVSS (SPD)	30 / 3	0.05	0.0				100 / 3	TRAILER PLUG	SF	32
33		----	---			0.0			---	---- VIA PV1?		34
35		----	---				0.0		---	----		36
37	MC	COMM HUT	100 / 2	10.00	5.0				100 / 3	PANEL 'P' -- MV HUT HOUSE PWR	SF	38
39		----	---			5.0			---	---- SUB FEED		40
41	MC	L.V. LIGHT CONTROL	20 / 1	0.05			0.1		---	----		42
					9.2	9.8	1.6			CALCULATED LOAD	23.2	KVA
										MAXIMUM AMPS PER PHASE	92.1	AMPS

NOTES:
1. EXISTING PANEL

Port of Tacoma — P.O. BOX 1837 TACOMA, WA 98401 (253)383-5841

kpff — ELCON ASSOCIATES, INC — ENGINEERS - CONSULTANTS — 16300 CHRISTENSEN ROAD, SUITE 330, SEATTLE, WASHINGTON 98188 — TEL (206) 243-5022 — FAX (206) 243-5023

SCOTT A. BARNOSKE — STATE OF WASHINGTON — 38175 — REGISTERED PROFESSIONAL ENGINEER — 11/30/23

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DKS 4/12/2022 — CHECKED BY DATE
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APPROVED: — DIRECTOR ENG. DATE
PRINTED BY: scot Nov 30, 2023
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EB-1 PAVEMENT AND RESTROOM BUILDINGS
PANEL SCHEDULE

TOWNSHIP: 21N — RANGE: 3E — SECTION: 36
DAT-HRZ: W83-SF — VERT: PORT OF TACOMA BM#
PARCEL: 0321354035 — DRAWING SCALE: AS NOTED

E4.1
24 OF 26

CONT/CONS: 071907
M. ID: 201105.01
PHASE: BID SET

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