ELECTRICAL PANELBOARD SCHEDULE

PANEL: HDWK-PNL-A
VOLTAGE: 480V, 3PH, 3W
BUS SIZE: 600 A
MAINS: MAIN LUGS ONLY

LOCATION: ELECTRICAL ROOM
MOUNTING: SURFACE
FED FROM: HDWK-SWGR-A
MAIN TYPE: COPPER
AIC RATING: 42,000 A

CIRCUIT TITLE	BREAKER CKT NO.	AMP	POLE	LOAD, VA PHASE A	PHASE B	PHASE C	LOAD TYPE	LOAD TYPE	LOAD, VA PHASE A	PHASE B	PHASE C	BREAKER POLE	AMP	CKT NO.	CIRCUIT TITLE
HDWK-SHWR-101	1	20	3	1,000			M	C	5,754			3	50	2	HDWK-TR-1
-	3	-	-		1,000		M	C		5,012		-	-	4	-
-	5	-	-			1,000	M	C			6,770	-	-	6	-
HDWK-G-100	7	20	3	500			M	M	1,500			3	20	8	HDWK-FV-300-A/B/C
-	9	-	-		500		M	M		1,500		-	-	10	-
-	11	-	-			500	M	M			1,500	-	-	12	-
HDWK-G-200	13	20	3	500			M	M	1,000			3	20	14	HDWK-SHWR-100
-	15	-	-		500		M	M		1,000		-	-	16	-
-	17	-	-			500	M	M			1,000	-	-	18	-
WAP-1	19	40	3	8,500			M	M	1,000			3	20	20	HDWK-SHWR-200
-	21	-	-		8,500		M	M		1,000		-	-	22	-
-	23	-	-			8,500	M	M			1,000	-	-	24	-
WAP-2	25	40	3	8,500			M	M	8,500			3	40	26	WAP-3
-	27	-	-		8,500		M	M		8,500		-	-	28	-
-	29	-	-			8,500	M	M			8,500	-	-	30	-
WAP-4	31	40	3	8,500			M	M	8,500			3	40	32	WAP-5
-	33	-	-		8,500		M	M		8,500		-	-	34	-
-	35	-	-			8,500	M	M			8,500	-	-	36	-
WAP-6	37	40	3	8,500			M	WH	4,000			3	30	38	WH-1
-	39	-	-		8,500		M	WH		4,000		-	-	40	-
-	41	-	-			8,500	M	WH			4,000	-	-	42	-
SPARE	43	40	3	0			-	U	4,630			3	50	44	HDWK-UPS-A
-	45	-	-		0		-	U		4,753		-	-	46	-
-	47	-	-			0	-	U			4,166	-	-	48	-
SPARE	49	40	3	0			-	M	167			3	20	50	HDWK-FCV-251
-	51	-	-		0		-	M		167		-	-	52	-
-	53	-	-			0	-	M			167	-	-	54	-
MONORAIL	55	20	3	0			-	-	0			3	30	56	SPARE
-	57	-	-		0		-	-		0		-	-	58	-
-	59	-	-			0	-	-			0	-	-	60	-
TOTAL LOAD				36000	36000	36000			35051	34432	35603				

PHASE A LOAD (VA) 71,051
PHASE B LOAD (VA) 70,432
PHASE C LOAD (VA) 71,603
TOTAL LOAD (VA) = 213,086 Demand Load 100% 213.1 KVA
256 AMPS

ELECTRICAL PANELBOARD SCHEDULE

PANEL: HDWK-PNL-B
VOLTAGE: 480/277V, 3PH, 4W
BUS SIZE: 100 A
MAINS: 50 A MAIN BREAKER

LOCATION: ELECTRICAL ROOM
MOUNTING: SURFACE
FED FROM: HDWK-UPS-A
MAIN TYPE: COPPER
AIC RATING: 42,000 A
* = GFI CIRCUIT BREAKER WITH 30 mA TRIP

CIRCUIT TITLE	BREAKER CKT NO.	AMP	POLE	LOAD, VA PHASE A	PHASE B	PHASE C	LOAD TYPE	LOAD TYPE	LOAD, VA PHASE A	PHASE B	PHASE C	BREAKER POLE	AMP	CKT NO.	CIRCUIT TITLE
HEAT TRACE INF LINES AT BFPS	1	20*	1	371			H	H	216			1	20*	2	HEAT TRACE GR/D LINES AT GRIT CLAS
HEAT TRACE INF LINES AT BFPS	3	20*	1		597		H	H		86		1	20*	4	HEAT TRACE GR LINES AT GRIT CLASS
HEAT TRACE INF LINES AT BFPS	5	20*	1			166	H	H			4,000	1	20*	6	HEAT TRACE GRIT CLASSIFIER
HEAT TRACE INF/D LINES AT BFPS	7	20*	1	43			H	H	4,000			1	20*	8	HEAT TRACE GRIT CLASSIFIER
HEAT TRACE AVRV VALVE (~700'	9	20*	1		70		H	H		4,000		1	20*	10	HEAT TRACE GRIT CLASSIFIER
SPARE	11	20*	1			0	H	-			0	-	-	12	SPACE
SPARE	13	20*	1	0			-	-	0			-	-	14	SPACE
SPACE	15	-	-		0		-	-		0		-	-	16	SPACE
SPACE	17	-	-			0	-	-			0	-	-	18	SPACE
SPACE	19	-	-	0			-	-	0			-	-	20	SPACE
SPACE	21	-	-		0		-	-		0		-	-	22	SPACE
SPACE	23	-	-			0	-	-			0	-	-	24	SPACE
SPACE	25	-	-	0			-	-	0			-	-	26	SPACE
SPACE	27	-	-		0		-	-		0		-	-	28	SPACE
SPACE	29	-	-			0	-	-			0	-	-	30	SPACE
SPACE	31	-	-	0			-	-	0			-	-	32	SPACE
SPACE	33	-	-		0		-	-		0		-	-	34	SPACE
SPACE	35	-	-			0	-	-			0	-	-	36	SPACE
SPACE	37	-	-	0			-	-	0			-	-	38	SPACE
SPACE	39	-	-		0		-	-		0		-	-	40	SPACE
SPACE	41	-	-			0	-	-			0	-	-	42	SPACE
TOTAL LOAD				414	667	166			4216	4086	4000				

PHASE A LOAD (VA) 4,630
PHASE B LOAD (VA) 4,753
PHASE C LOAD (VA) 4,166
TOTAL LOAD (VA) = 13,549 Demand Load 100% 13.5 KVA
16 AMPS

ELECTRICAL PANELBOARD SCHEDULE

PANEL: HDWK-PNL-1
VOLTAGE: 208/120V 3PH, 4W
BUS SIZE: 100A
MAINS: 100 A MAIN BREAKER

LOCATION: ELECTRICAL ROOM
MOUNTING: SURFACE
FED FROM: HDWK-TR-1
MAIN TYPE: COPPER
AIC RATING: 10,000 A

CIRCUIT TITLE	BREAKER CKT NO.	AMP	POLE	LOAD, VA PHASE A	PHASE B	PHASE C	LOAD TYPE	LOAD TYPE	LOAD, VA PHASE A	PHASE B	PHASE C	BREAKER POLE	AMP	CKT NO.	CIRCUIT TITLE
RCPTS LOWER LEVEL	1	20	1	540			R	L	1,199			1	20	2	LTS LOWER LEVEL / STAIRS
RCPTS UPPER LEVEL	3	20	1		1,080		R	L		347		1	20	4	LTS EXTERIOR
RCPTS UPPER LEVEL/EXTERIOR	5	20	1			1,080	R	L			1,457	1	20	6	LTS UPPER LEVEL
RCPTS EXTERIOR	7	20	1	1,080			R	L	109			1	20	8	SHED LTS
RCPTS EXTERIOR	9	20	1		180		R	C		80		1	20	10	SS-1
NACP (NOTE 1)	11	20	1			500	C	L			867	1	20	12	HDWK-LCP-1 (A/B)
RCP-1	13	20	1	50			M	L	350			1	20	14	HDWK-LCP-1 (F/LCP)
INSTRUMENT POWER (PLC-1)	15	20	1		500		C	L		449		1	20	16	HDWK-LCP-1 (C)
INSTRUMENT POWER (PLC-1)	17	20	1			500	C	L			670	1	20	18	HDWK-LCP-1 (D)
INSTRUMENT POWER (PLC-1)	19	20	1	500			C	L	230			1	20	20	HDWK-LCP-1 (E)
RCPT PORTABLE SUMP	21	20	1		180		R	LM		696		1	20	22	CHEM-P-530-A
HDWK-SHWR-100	23	20	1			1,000	WH	M			696	1	20	24	CHEM-P-530-B
HDWK-SHWR-101	25	20	1	1,000			WH	M	696			1	20	26	CHEM-P-530-C
HDWK-SHWR-200	27	20	1		1,000		WH	-		500		1	20	28	WAP MASTER CONTROL PANEL
SPARE	29	20	1			0	-	-			0	1	20	30	WAP MASTER CONTROL PANEL
SPARE	31	20	1	0			-	-	0			1	20	32	SPARE
SPARE	33	20	1		0		-	-		0		1	20	34	SPARE
SPARE	35	20	1			0	-	-			0	1	20	36	SPARE
SPARE	37	20	1	0			-	-	0			1	30	38	SPD
SPACE	39				0		-	-		0		1	-	40	-
SPACE	41					0	-	-			0	1	-	42	-
TOTAL LOAD				3170	2940	3080			2584	2072	3690				

PHASE A LOAD (VA) 5,754
PHASE B LOAD (VA) 5,012
PHASE C LOAD (VA) 6,770
TOTAL LOAD (VA) = 17,536 Demand Load 105% 18.5 KVA
51 AMPS

NOTE 1: RED AND LOCKABLE "ON" BREAKER

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PART	REV	DESCRIPTION	DRW	CHKR	DE	DVR	DM	DATE
	Ø	ISSUED FOR CONSTRUCTION	SF	BW	DE		LE	06/2017

REVISION OR ISSUE PURPOSE — REVISION APPROVALS: PE, DATE — SQUAD CHECK: WE, AR, CV, ST, HV, EM, FP, PD, EE, IE, M, NP

RPE: JAMES KEITH LANDMAN, REGISTERED ENGINEER, AGENCY, No. 119939, STATE OF TENNESSEE — 6-30-2017

REV.	DATE	DRAWING APPROVALS		DATE
		DRW	S FLASKA	06/16/17
		CHKR	B WILKINSON	06/16/17
		DE	D ENGEL	06/16/17
		DVR		
		DM	L ELLIS	06/16/17
		PE	Teresa J. Pierce, P.E.	

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OF200 Mercury Treatment Facility
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Oak Ridge Office of Environmental Management under U. S. Government contract DE-SC-0004645

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PROJECT NAME:
OF200 MERCURY TREATMENT FACILITY

ELECTRICAL
HEADWORKS
PANEL SCHEDULES

USE	DISC	DT	DC	CM	SYSTEM	STAT	SIZE	BLDG	FL	CLASS
3	E	Y	S	NC	FAC	AR	E	9410-01	A	U

SH.	OF	TYPE		PART	REV
1	1	DD	E941001-F-0029	000	0

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