

FEEDER NUMBER	FROM	TO	PARALLEL FEEDER	WIRE QTY & SIZE	NEUTRAL SIZE	GROUND SIZE	CONDUIT SIZE	FEEDER LENGTH (NOTE 1)	LOAD AMPS	VOLTAGE	VD %
N1	SCE	POWER XFMR (BY SCE)	2	WIRES BY SCE			5"			12KV	
N1A	XFMR (BY SCE)	POWER CO. METERING	6	WIRES BY SCE			4"		2000A	480	
N2	POWER CO. METERING	SWITCHBOARD "MS"	6	3-600 KCMIL	1-600 KCMIL	1-350 KCMIL	4"		1983.2A	480	
N3	SWITCHBOARD "MS-1"	ATS-1	5	3-600 KCMIL	1-600 KCMIL	1-250 KCMIL	4"		1723.1A	480	
N4	SWITCHBOARD "MS-2"	DISTR PANEL MDPN	1	3-600 KCMIL	1-600 KCMIL	1-2	4"		260.1A	480	
N5	DISTR PANEL MDPN-1	EF-3	1	3#12	-	1#12	3/4"		2.1A	480	
N6	DISTR PANEL MDPN-2	E/G JACKET WATER HEATERS 30A DISC SWITCH	1	3#12	-	1#12	3/4"		9.6A	480	
N6A	30A DISC SWITCH	E/G JACKET WATER HEATER-1	1	3#12	-	1#12	3/4"		4.8A	480	
N6B	30A DISC SWITCH	E/G JACKET WATER HEATER-2	1	3#12	-	1#12	3/4"		4.8A	480	
N7	DISTR PANEL MDPN-3	PANEL NHA	1	3#1	1#1	1#8	1 1/2"		36.5A	480	
N8	DISTR PANEL MDPN-4	PANEL NHB	1	3#1	1#1	1#8	1 1/2"		36.6A	480	
N9	DISTR PANEL MDPN-5	XFMR T3	1	3#1	-	1#8	1 1/4"		48A	480	
N9A	XFMR T3	PANEL NLA	1	3#4/0	1#4/0	1#4	2 1/2"		110.8A	208	
N9B	PANEL NLA	PANEL NLB	1	3#1	1#1	1#8	1 1/2"		47A	208	
N10	DISTR PANEL MDPN-6	XFMR T4	1	3#1	-	1#8	1 1/4"		94.8A	480	
N10A	XFMR T4	DISTR PANEL DPNA	1	3-250 KCMIL	1-250 KCMIL	1#4	2 1/2"		218.9A	480	
N10B	DISTR PANEL DPNA-1	PANEL NLC	1	3#1	1#1	1#6	1 1/2"		77.2A	208	
N10C	DISTR PANEL DPNA-2	PANEL NLD	1	3#1	1#1	1#6	1 1/2"		78.9A	208	
N10D	DISTR PANEL DPNA-3	PANEL NLE	1	3#1	1#1	1#6	1 1/2"		62.8A	208	
N11	DISTR PANEL MDPN-7	HWP-1	1	3#12	-	1#12	3/4"		11A	480	
N12	DISTR PANEL MDPN-8	HWP-2 (STANDBY)	1	3#12	-	1#12	3/4"		11A	480	
N13	DISTR PANEL MDPN-9	EF-1	1	3#12	-	1#12	3/4"		2.1A	480	
N14	DISTR PANEL MDPN-10	EC-1	1	3#12	-	1#12	3/4"		17.8A	480	
N15	DISTR PANEL MDPN-11	HWP-3	1	3#12	-	1#12	3/4"		1.6A	480	
N16	DISTR PANEL MDPN-12	HWP-4 (STANDBY)	1	3#12	-	1#12	3/4"		1.6A	480	
N17	DISTR PANEL MDPN-13	EF-6	1	3#12	-	1#12	3/4"		2.1A	480	
E1	ATS-1	GENERATOR EG-1	5	3-600 KCMIL	1-600 KCMIL	1-250 KCMIL	4"		1723.1A	480	
E2	ATS-1	MTS-1	5	3-600 KCMIL	1-600 KCMIL	1-250 KCMIL	4"		1723.1A	480	
E3	MTS-1	MAIN SWBD MDPE	5	3-600 KCMIL	1-600 KCMIL	1-250 KCMIL	4"		1723.1A	480	
E4	NOT USED										
E5	MAIN SWBD MDPE-1	UPS-1 AC INPUT	2	3-500 KCMIL	-	1#1/0	3"		363.1A	480	
E6	MAIN SWBD MDPE-3	UPS-2 STATIC SWITCH BYPASS INPUT	2	3-500 KCMIL	1-500 KCMIL	1#1/0	3"		363.1A	480	
E7	MAIN SWBD MDPE-2	UPS-2 AC INPUT	2	3-500 KCMIL	-	1#1/0	3"		363.1A	480	
E8	MAIN SWBD MDPE-4	UPS-2 STATIC SWITCH BYPASS INPUT	2	3-500 KCMIL	1-500 KCMIL	1#1/0	3"		363.1A	480	
E9	MAIN SWBD MDPE-5	SYSTEM MAINT BYPASS SW	2	3-500 KCMIL	1-500 KCMIL	1#1/0	3"		363.1A	480	
E10	MAIN SWBD MDPE-6	PANEL EHA	1	3#1	1#1	1#8	1 1/2"		16A	480	
E11	MAIN SWBD MDPE-7	PANEL EHB	1	3#1	1#1	1#8	1 1/2"		37.6A	480	
E12	MAIN SWBD MDPE-8	XFMR T1	1	3-500 KCMIL	-	1#2	3"		271A	480	
E12A	XFMR T1	PANEL DPELA	2	3-350 KCMIL	1-350 KCMIL	1#1	3"		431A	208	
E12B	PANEL DPELA-1	PANEL ELA	1	3#1/0	1#1/0	1#6	2"		76A	208	
E12C	PANEL DPELA-2	PANEL ELB	1	3#1	1#1	1#8	1 1/2"		46A	208	
E12D	PANEL DPELA-3	PANEL ELC	1	3#1	1#1	1#8	1 1/2"		73A	208	
E12E	PANEL DPELA-4	PANEL ELD	1	3#1	1#1	1#8	1 1/2"		53	208	
E12F	PANEL DPELA-5	PANEL ELE	1	3#4/0	1#4/0	1#4	2 1/2"		136	208	
E12G	PANEL DPELA-6	PANEL ELF	1	3#1	1#1	1#8	1 1/2"		49	208	
E13	MAIN SWBD MDPE-9	XFMR T2	1	3#1	-	1#6	1 1/4"		208A	480	
E13A	XFMR T2	PANEL DPELB	1	3-250 KCMIL	1-250 KCMIL	1#4	2 1/2"		150A	208	
E13B	PANEL DPELB-1	PANEL ELG	1	3#1	1#1	1#8	1 1/2"		72A	208	
E13C	PANEL DPELB-2	PANEL ELH	1	3#1	1#1	1#8	1 1/2"		78A	208	
E14	MAIN SWBD MDPE-10	DISTR PANEL DPE1	1	3-350 KCMIL	1-350 KCMIL	1#4	3"		230A	480	
E15	MAIN SWBD MDPE-11	DISTR PANEL DPE2	3	3-400 KCMIL	1-400 KCMIL	1-3/0	3"		791A	480	
E16	MAIN SWBD MDPE-12	ELEVATOR	1	3#4	-	1#8	1"		34.4A	480	
E21	DISTR PANEL DPE1-1	CRAC-1	1	3#8	-	1#10	3/4"		33.1A	480	
E22	DISTR PANEL DPE1-2	CRAC-2	1	3#8	-	1#10	3/4"		33.1A	480	
E23	DISTR PANEL DPE1-3	CRAC-3	1	3#8	-	1#10	3/4"		33.1A	480	
E24	DISTR PANEL DPE1-4	CRAC-4	1	3#8	-	1#10	3/4"		33.1A	480	
E25	DISTR PANEL DPE1-5	CRAC-5	1	3#8	-	1#10	3/4"		33.1A	480	
E26	DISTR PANEL DPE1-6	CRAC-6	1	3#8	-	1#10	3/4"		33.1A	480	
E27	DISTR PANEL DPE1-7	SLIDING GATE-1 CONTROLLER	1	3#12	-	1#12	1"		2.1A	480	
E28	DISTR PANEL DPE1-18	EF-8	1	3#12	-	1#12	3/4"		3.4A	480	
E29	DISTR PANEL DPE1-9	FCU-1	1	3#12	-	1#12	3/4"		4.8A	480	
E30	DISTR PANEL DPE1-10	FCU-2 (STANDBY)	1	3#12	-	1#12	3/4"		4.8A	480	
E31	DISTR PANEL DPE2-11	FCU-3	1	3#12	-	1#12	3/4"		4.8A	480	
E32	DISTR PANEL DPE2-12	FCU-4	1	3#12	-	1#12	3/4"		3.4A	480	

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E33	DISTR PANEL DPE2-13	FCU-5	1	3#12	—	1#12	3/4"		1.1A	480	
E34	DISTR PANEL DPE2-14	FCU-6	1	3#12	—	1#12	3/4"		3.0A	480	
E35	DISTR PANEL DPE2-15	FCU-7 (STANDBY)	1	3#12	—	1#12	3/4"		3.0A	480	
E41	DISTR PANEL DPE1-17	EF-2	1	3#12	—	1#12	3/4"		3.0A	480	
E42	DISTR PANEL DPE2-2	CH-1	1	3-350 KCMIL	—	1#2	3"		285A	480	
E43	DISTR PANEL DPE2-3	RF-1	1	3#8	—	1#10	3/4"		27A	480	
E44	DISTR PANEL DPE2-4	RF-4	1	3#10	—	1#10	3/4"		21A	480	
E45											
E46	DISTR PANEL DPE2-6	CH-2	1	3-350 KCMIL	—	1#2	3"		285A	480	
E47	DISTR PANEL DPE2-7	CH-3 (STANDBY)	1	3-350 KCMIL	—	1#2	3"		285A	480	
E48	DISTR PANEL DPE2-8	AHU-4	1	3#6	—	1#10	3/4"		40A	480	
E49	DISTR PANEL DPE2-9	AHU-5 (STANDBY)	1	3#6	—	1#10	3/4"		40A	480	
E50	DISTR PANEL DPE2-10	WIREWAY	1	3#4	—	1#6	1"		55A	480	
E50A	WIREWAY	AHU-2 SUPPLY FAN	1	3#6	—	1#10	1"		34A	480	
E50B	WIREWAY	AHU-2 RETURN FAN RF-2	1	3#10	—	1#10	1"		21A	480	
E51	DISTR PANEL DPE2-11	WIREWAY (STANDBY)	1	3#4	—	1#6	1"		55A	480	
E51A	WIREWAY	AHU-3 SUPPLY FAN (STANDBY)	1	3#6	—	1#10	1"		34A	480	
E51B	WIREWAY	AHU-3 RETURN FAN RF-3 (STANDBY)	1	3#10	—	1#10	1"		21A	480	
E52	DISTR PANEL DPE2-12	AHU-1	1	3#4	—	1#6	1"		52A	480	
E53	DISTR PANEL DPE2-13	FCU-9	1	3#12	—	1#12	3/4"		1.6A	480	
E54	DISTR PANEL DPE2-14	FCU-12	1	3#12	—	1#12	3/4"		1.6A	480	
E55	DISTR PANEL DPE2-15	CHWP-1	1	3#8	—	1#10	3/4"		21A	480	
E56	DISTR PANEL DPE2-16	CHWP-2	1	3#8	—	1#10	3/4"		21A	480	
E57	DISTR PANEL DPE2-17	CHWP-3 (STANDBY)	1	3#8	—	1#10	3/4"		21A	480	
C1	UPS-1	CRITICAL LOAD CABINET	2	3-500 KCMIL	1-500 KCMIL	1#1/0	(2) 3"		363.1A	480	
C2	UPS-2	CRITICAL LOAD CABINET	2	3-500 KCMIL	1-500 KCMIL	1#1/0	(2) 3"		363.1A	480	
C3	CRITICAL LOAD CABINET	CRITICAL MAIN DISTR PANEL MDPC	2	3-500 KCMIL	1-500 KCMIL	1#1/0	(2) 3"		363.1A	480	
C4	CRITICAL DISTR PANEL MDPC-1	PDU-1	1	3#1	—	1#6	1 1/4"		55.6A	480	
C5	CRITICAL DISTR PANEL MDPC-2	PDU-2	1	3#1	—	1#6	1 1/4"		68.2A	480	
C6	CRITICAL DISTR PANEL MDPC-3	PDU-3	1	3#1	—	1#6	1 1/4"		42.3A	480	
C7	CRITICAL DISTR PANEL MDPC-4	PDU-4	1	3#1	—	1#6	1 1/4"		63.0A	480	
C8	CRITICAL DISTR PANEL MDPC-5	PDU-5	1	3#1	—	1#6	1 1/4"		25.2A	480	
C9	CRITICAL DISTR PANEL MDPC-6	PDU-6	1	3#1	—	1#6	1 1/4"		33.2A	480	
C9A	PDU-6	PANEL PDUGA	1	3#4/0	2#4/0	1#4 1#4 IG	2 1/2"		76.6A	208	
C10	CRITICAL DISTR PANEL MDPC-7	PDU-7	1	3#1	—	1#6	1 1/4"		37.8A	480	
C10A	PDU-7	PANEL PDU7A	1	3#4/0	2#4/0	1#4 1#4 IG	2 1/2"		87.2A	208	
C11	CRITICAL DISTR PANEL MDPC-8	PDU-8	1	3#1	—	1#6	1 1/4"		37.8A	480	
C11A	PDU-8	PANEL PDUGA	1	3#4/0	2#4/0	1#4 1#4 IG	2 1/2"		87.7A	208	
D1	UPS-1 BATTERY CABINET	UPS-1 DC BKR	4	2-350 KCMIL	—	—	3"			480DC	
D2	UPS-2 BATTERY CABINET	UPS-2 DC BKR	4	2-350 KCMIL	—	—	3"			480DC	

NOTES:

1. FEEDER LENGTH IS SHOWN FOR CALCULATION PURPOSES ONLY AND NOT TO BE USED FOR CONSTRUCTION.



CLIENT



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CONSULTANTS

STATUS

100%
CONSTRUCTION
DOCUMENTS
SEPT. 7, 2007

ISSUE

[illegible]

MARK	DATE	DESCRIPTION
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PROJECT NO: 60004333.4000

DRAWN BY: L. DICKENS

CHECKED BY: C. DAVIES

KEY PLAN

CONDUIT AND WIRE SCHEDULE

E-715