LIGHTING FIXTURE SCHEDULE

FIXT. TYPE	DESCRIPTION	LAMPS			BALLAST		VOLTAGE	MANUFACTURER	CATALOG NUMBER	REMARKS SEE NOTES 1, 2, 3, 4
		NO.	WATTS	TYPE	NO.	INTEGRAL				
R11	CEILING RECESSED 2'x4' SEALED AND GASKETED FIXTURE	6	32	T8	1	Y	UNV	HE WILLIAMS	MDS-F-S24-832-F-KSH-34RF-SUPPRESSOR-ES3/3-UNV-BODINE	PROVIDE WITH ANTI-MICROBIAL FINISH AND BODINE BATTERY BALLAST
								DAYBRITE	APPROVED EQUAL	
								KENALL	APPROVED EQUAL	
R12	CEILING RECESSED 2'x2' SEALED AND GASKETED FIXTURE	3	17	T8	1	Y	UNV	HE WILLIAMS	MDS-F-S22-317-F-KSH-34RF-SUPPRESSOR-EB3-UNV-BODINE	PROVIDE WITH ANTI-MICROBIAL FINISH AND BODINE BATTERY BALLAST
								DAYBRITE	APPROVED EQUAL	
								KENALL	APPROVED EQUAL	
R13	CEILING RECESSED 2'x2' LENSED FIXTURE	2	17	T8	1	Y	UNV	LITHONIA	2RT8S-2-17-UNV-BINP	
								DAYBRITE	APPROVED EQUAL	
								METALUX	APPROVED EQUAL	
	EDGE LIT LED EXIT SIGN	-	5	LED	1	Y	UNV	SURE-LITES	ES6-1/2-R-XX-UNV	
								MCPHILBEN	45VL-X-1/2-RC/RW/RM-XX	
								LITHONIA	LRP-1/2-RW/RC/RMR-XX-UNV	

LIGHTING FIXTURE SCHEDULE NOTES:

1. COORDINATE ALL FIXTURE FINISH COLORS WITH ARCHITECT PRIOR TO BID.
2. COORDINATE COLOR AND TEMPERATURE OF ALL LAMPS WITH ARCHITECT.
3. COORDINATE FIXTURE LENGTHS WITH ARCHITECTURAL FLOOR PLANS.
4. COORDINATE FIXTURE TRIM WITH CEILING TYPE WHERE FIXTURE IS BEING INSTALLED.

TRANSFORMER SCHEDULE

(ALL TRANSFORMERS ARE CONNECTED △Y)

COPPER YES

No.	KVA	PHASE	PRIMARY				SECONDARY				K-FACTOR	SYSTEM GROUND & BOND
			VOLT	AMPS	C.B	FEEDER	VOLT	AMPS	C.B	FEEDER		
T9	9	3	480	11	20A-3P	(3)#12 & (1)#12G-3/4"C	208	25	30A-3P	(4)#10 & (1)#10G-3/4"C	NO	(1)#6-3/4"C
T15	15	3	480	18	30A-3P	(3)#10 & (1)#10G-3/4"C	208	42	50A-3P	(4)#6 & (1)#8G-1"C	NO	(1)#6-3/4"C
T30	30	3	480	36	60A-3P	(3)#4 & (1)#10G-1"C	208	83	100A-3P	(4)#1 & (1)#6G-1 1/2"C	NO	(1)#6-3/4"C
T45	45	3	480	54	80A-3P	(3)#3 & (1)#8G-1 1/4"C	208	125	150A-3P	(4)#1/0 & (1)#6G-2"C	NO	(1)#6-3/4"C
T75	75	3	480	90	150A-3P	(3)#1/0 & (1)#6G-1 1/2"C	208	208	250A-3P	(4)#250 & (1)#4G-3"C	NO	(1)#2-3/4"C
T12	112.5	3	480	135	250A-3P	(3)#250 & (1)#4G-2 1/2"C	208	313	400A-3P	(4)#500 & (1)#3G-4"C	NO	(1)#1/0-3/4"C
T50	150	3	480	181	300A-3P	(3)#350 & (1)#4G-3"C	208	417	500A-3P	(8)#250 & (2)#2G-(2)3"C	NO	(1)#1/0-3/4"C
T22	225	3	480	270	400A-3P	(3)#500 & (1)#3G-3 1/2"C	208	625	800A-3P	(8)#500 & (2)#1/0G-(2)4"C	NO	(1)#2/0-3/4"C
T300	300	3	480	361	600A-3P	(6)#350 & (2)#1G-(2)3"C	208	834	1000A-3P	(12)#400 & (3)#2/0G-(3)3"C	NO	(1)#3/0-3/4"C
T500	500	3	480	600	1000A-3P	(9)#300 & (3)#2/0G-(3)3"C	208	1400	1600A-3P	(16)#500 & (4)#4/0G-(4)4"C	NO	(1)#300-1"C

SCHEDULE NOTES:

1. THE GROUNDING ELECTRODE CONDUCTOR SHALL NOT BE SPLICED.
2. PROVIDE ADAPTERS TO ENSURE CONDUCTOR SIZES COORDINATE WITH BREAKER LUG SIZES.
3. THE SECONDARY OVERCURRENT PROTECTION DEVICE SHALL BE LOCATED SUCH THAT THE MAXIMUM LENGTH OF SECONDARY CONDUCTORS DOES NOT EXCEED 10'-0".
4. FOR ALL TRANSFORMERS SERVING ISOLATED GROUND PANELS. PROVIDE ADDITIONAL GROUND "IG" TYPE. REFER TO SPECIFICATIONS.

SCHEDULE OF PANELBOARDS

PANEL No.	LOCATION	MTG.	VOLTAGE,P,W	CIRCUIT BREAKERS												SPACES	TOTAL POLES	A/C	BUS SIZE	MAIN C.B.	NEUTRAL 200%	GND. BUS	ISO. GND. BUS	REMARKS
				20/1	20/1 GFI	20/2	20/3	30/1	30/2	30/3	40/3	50/3	60/3	70/3	100/3	OTHERS								
LP-B1	BASEMENT	SURF	120/208V,3P,4W	48	-	-	-	-	-	-	-	-	-	-	-	-	36	84	22K	250	250	N	Y	N	1 2
-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
LCP-B1	BASEMENT	SURF	120/208V,3P,4W	48	-	-	-	-	-	-	-	-	-	-	-	-	36	84	22K	250	250	N	Y	N	1 2

* AIC RATING SHALL MEET THE AVAILABLE FAULT AND EQUIPMENT AT THE POINT OF INSTALLATION.

SCHEDULE KEYED NOTES:

1. PROVIDE ADDITIONAL CIRCUIT BREAKERS AS REQUIRED TO SUPPORT EXISTING BRANCH CIRCUITS.
2. PROVIDE A SINGLE TUB 84 POLE PANEL

SCHEDULE OF ISOLATED POWER PANELBOARDS

PANEL No.	LOCATION	MTG.	SECONDARY VOLTAGE,P,W	CIRCUIT BREAKERS												SPACES	TOTAL POLES	A/C	BUS SIZE	MAIN C.B.	NEUTRAL 200%	GND. BUS	ISO. GND. BUS	REMARKS
				20/1	20/1 GFI	20/2	20/3	30/1	30/2	30/3	40/3	50/3	60/3	70/3	100/3	OTHERS								
IPORH-A	BASEMENT	FLUSH	120V,1P,3W	-	-	16	-	-	-	-	-	-	-	-	-	-	-	32	22K	-	35A	N	FULL	N	7.5 KVA, 277V, 1P PRIMARY
IPORH-B	BASEMENT	FLUSH	120V,1P,3W	-	-	16	-	-	-	-	-	-	-	-	-	-	-	32	22K	-	35A	N	FULL	N	7.5 KVA, 277V, 1P PRIMARY
IPOR6-A	BASEMENT	FLUSH	120V,1P,3W	-	-	16	-	-	-	-	-	-	-	-	-	-	-	32	22K	-	35A	N	FULL	N	7.5 KVA, 277V, 1P PRIMARY
IPOR6-B	BASEMENT	FLUSH	120V,1P,3W	-	-	16	-	-	-	-	-	-	-	-	-	-	-	32	22K	-	35A	N	FULL	N	7.5 KVA, 277V, 1P PRIMARY

WIRE & CONDUIT SIZING SCHEDULE

AMPS	TAGS	WIRE SIZE (AWG/KCMIL)		No. OF WIRES AND CONDUIT SIZE (IN INCHES)		
		CONDUCTOR PHASE AND NEUTRAL	GROUND	(A) 1PH, 2W+G	(B) 3PH, 3W+G	(C) 3PH, 4W+G
15	1	12	12	3/4	3/4	3/4
20	2	12	12	3/4	3/4	3/4
30	3	10	10	3/4	3/4	3/4
40	4	8	10	3/4	3/4	3/4
50	5	6	10	3/4	1	1
60	6	4	10	1	1-1/4	1-1/4
70	7	4	8	1	1-1/4	1-1/4
80	8	3	8	1	1-1/4	1-1/4
90	9	2	8	1-1/4	1-1/4	1-1/2
100	10	1	8	1-1/4	1-1/2	2
125	11	1	6	1-1/4	1-1/2	2
150	12	1/0	6	1-1/2	2	2
175	13	2/0	6	1-1/2	2	2-1/2
200	14	3/0	6	2	2	2-1/2
225	15	4/0	4	2	2-1/2	2-1/2
250	16	250	4	2	2-1/2	3
275	17	300	4	2-1/2	3	3
300	18	350	4	2-1/2	3	3
350	19	500	3	3	4	4
400	20	500	3	3	4	4
450	21	(2)4/0	(2)2		(2)2-1/2	(2)2-1/2
500	22	(2)250	(2)2		(2)2-1/2	(2)3
600	23	(2)350	(2)1		(2)3	(2)4
700	24	(2)500	(2)1/0		(2)4	(2)4
800	25	(2)500	(2)1/0		(2)4	(2)4
1000	26	(3)400	(3)2/0		(3)3	(3)4
1100	27	(3)500	(3)3/0		(3)3	(3)4
1200	28	(4)350	(4)3/0		(4)3	(4)4
1500	29	(4)500	(4)4/0		(4)4	(4)4
1600	30	(5)400	(5)4/0		(5)4	(5)4
1900	31	(5)500	(5)250		(5)4	(5)4
2000	32	(6)400	(6)250		(6)4	(6)4
2500	33	(6)600	(6)350		(6)4	(6)4
3000	34	(8)500	(8)400		(8)4	(8)4

NOTE:

1. THE ABOVE SCHEDULE IS BASED ON 600 VOLT WIRE TYPE THWN/THHN/XHHW AND EMT/RGS CONDUIT

10C NUMBER INDICATES FEEDER SIZE IN AMPS AND WIRE LETTER INDICATES CONDUIT SIZE AND NUMBER OF WIRES

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Portland Fire Prevention Division
Approved with Conditions
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Revisions

	ISSUED FOR PERMIT	08.21.2015
1	ADDENDUM 1	08.21.2015
	ISSUED FOR BID	07.31.2015
NO	ISSUE	DATE

Sheet Information

Date	JULY 31, 2015
Job #	B150155-000
Drawn	GN
Checked	MR
Approved	MR

Title

ELECTRICAL SCHEDULES AND RISER DIAGRAMS SHEET 1 OF 2

Sheet

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