

1. ALL ELECTRICAL SERVICE EQUIPMENT SHALL HAVE MIN A.I.C. RATING OF 22,000 AMPS. ALL EQUIPMENT LOCATED ON EXTERIOR OF BUILDING SHALL BE NEMA-3R RATED.

2. ALL ELECTRICAL EQUIPMENT AND WIRE SHALL BE RATED @ 75°C CONTINUOUS DUTY.

3. PRIOR TO CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL:

ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.

a) VERIFY ALL EXISTING CONDITIONS IN FIELD
 b) COORDINATE THE ELECTRICAL SERVICE WITH FP&L REPRESENTATIVE
 c) NOTIFY THE ENGINEER OF ANY CHANGES REQUIRED TO COMPLETE NEW CONSTRUCTION.

4. ALL ELECTRICAL EQUIPMENT SHALL BE FIELD MARKED TO WARN OF POTENTIAL ELECTRICAL ARC FLASH HAZARDS. THE MARKING SHALL BE LOCATED SO AS TO BE CLEARLY VISIBLE BEFORE ANY EXAMINATION,

5. EACH DISCONNECT SHALL BE LEGIBLY MARKED TO INDICATE THE UNIT IT IS FEEDING. THE MARKING SHALL BE OF SUFFICIENT DURABILITY TO WITHSTAND THE ENVIRONMENT INVOLVED.

## ALUMINUM NOTES(OWNER/CONTRACTOR BID OPTION)

1. ALL EQUIPMENT USED WITH ALUMINUM CONDUCTORS MUST BE LISTED FOR THE PURPOSE.

2. ALL ALUMINUM CONDUCTORS SHALL BE TERMINATED WITH HARDWARE AND COMPRESSION LUGS APPROVED FOR THE PURPOSE.

3. ALL COMPRESSION LUGS SHALL BE CHECKED 3, 6, & 11 MONTHS AFTER C.O. AND EVERY THREE YEARS THEREAFTER. BUILDING OWNER SHALL HAVE A MAINTENANCE CONTRACT WITH ELECTRICAL CONTRACTOR OF CHOICE. CONTRACTOR SHALL DOCUMENT ALL MEASUREMENTS AND VERIFICATION IN TABULAR FORM. PROVIDE CORRECTIVE RECOMMENDATIONS, ACTIONS TAKEN, AND TESTING EQUIPMENT UTILIZED.

4. THE ELECTRICAL CONTRACTOR MUST TORQUE ALL ALUMINUM TERMINATIONS IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.

5. PRIOR TO TERMINATING ALUMINUM CONDUCTORS, THE CONTRACTOR MUST CLEAN WIRE THOROUGHLY WITH WIRE BRUSH AND APPLY AN ANTI-OXIDANT COMPOUND.

6. ALL BRANCH CIRCUITS FROM PANELS MUST BE COPPER.

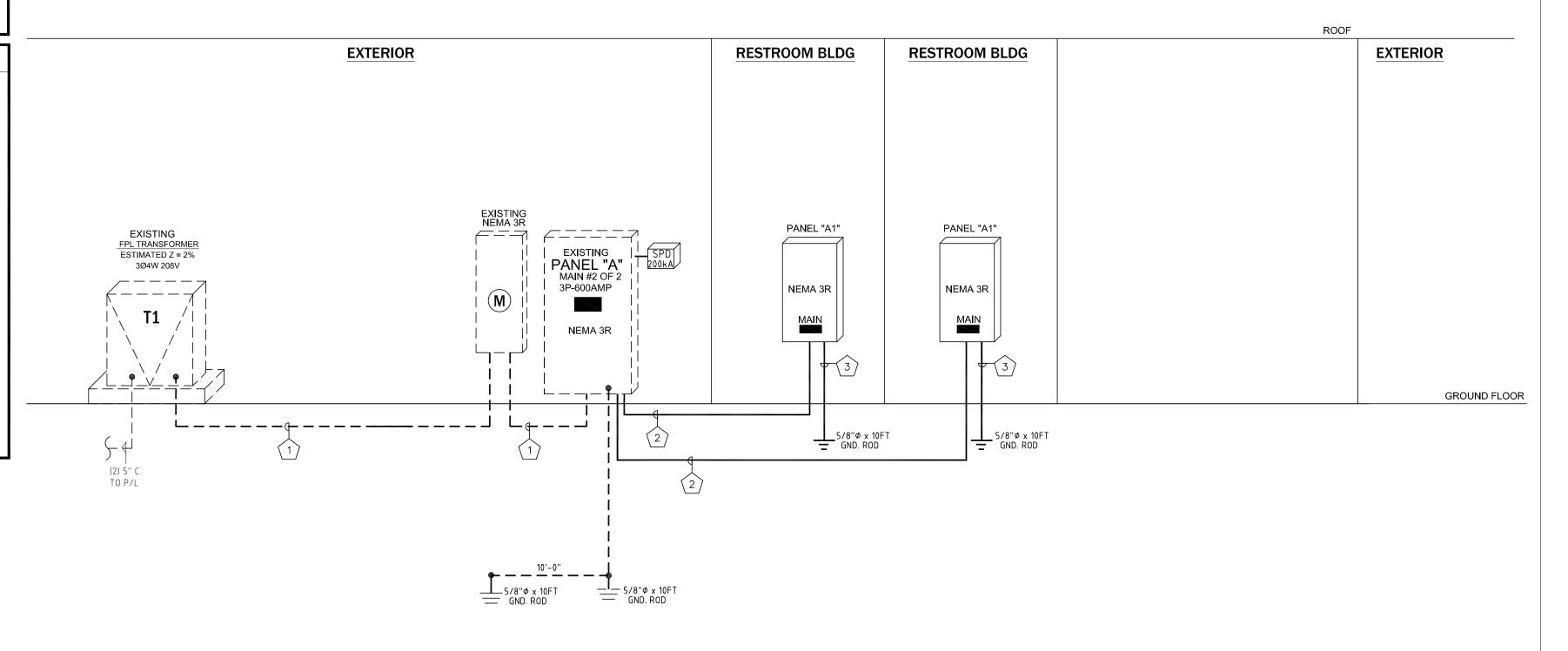
7. ALL GROUNDING SHALL BE COPPER.

8. UL LISTED LUGS SHALL BE RATED FOR 90°C WHERE ALUMINUM WIRE IS USED.

9. THE ELECTRICAL CONTRACTOR SHALL PERFORM MEGGER TEST ON ALL ALUMINUM FEEDERS AND PROVIDE RESULTS TO ENGINEER.

10. PIN CONNECTORS ARE NOT ACCEPTABLE FOR USE.

11. ALL ALUMINUM FEEDERS SHALL BE: ALUMA FLEX COMPACT STRANDED THWN-2.



RISER NO.1 PROPOSED ELECTRICAL RISER DIAGRAM SCALE

	MFG.	SQUARE '	D' OR EQUAL					ΓΥΡΕ	NQ	1		(1)(2)	_			PANEL RATING	100	AMP	<u>s_</u>
	VOLTS	120/208V	3¢4W				<u> </u>	PANEL	"A1"	ı			_						
A	BUS KVA	С	LOAD	COND.	WIRE SIZE	GND	AMPS	CKT.	BUS	6 (	СКТ.	AMPS	GND	WIRE SIZE	COND.	LOAD	A	BUS KVA	C
0.5	_		LIGHTING - RESTROOM SPACE	1/2"	#12	#12	20	1 3			2 4	25/2	#10	#10	3/4"	INSTAHOT	1.8	1.8	
	-	-	SPACE	-	-	-	-	5		I —	6	25	#10	#10	3/4"	INSTAHOT	10	1.0	1.8
_	-		SPACE SPACE	-	-	-	-	7 9			8 10	25	#10	#10	3/4"	INSTAHOT	1.8	1.8	
-	-	-	SPACE SPACE SPACE	- - -	- - -	- - -	-	11 13 15			12 14 16	25 25 2	#10	#10	3/4"	INSTAHOT	1.8	1.8	1.8
	KVA ØA	5.9	SPACE	KVA Ø	- O 3.6		<u>  -</u> <u>1ARKS &amp;</u> 3P-100AI				18 CONTR	-   ACTOR S	- HALL PR	- ROVIDE AI	l - N ACCUR,	SPACE  ATE PER FIELD CONDITIONS, TYP	ED UP PA	NEL SCHE	DULE
AMP ØA 49.2 AMP ØB 45.0 AMP ØC 30.0 Q VERIFY ELECTRICAL REQUIREMENTS OF ALL EQUIPMENT PRIOR TO CONSTRUCTION; ALL EQUIPMENT'S ELECTRICAL REQUIREMENTS SHALL BE CONFIRMED WITH MFG SPECS. VERIFY VOLTAGE, AMPERAGE, AND BREAKER SIZES.  3 PER MANUFACTURER RECOMMENDATIONS																			
															<u>MC</u>	DUNT SURFACE MIN. A.I.C	<u>22,</u> 000	) AMPS	

IJ		IFG.	EXISTING						_	ΓΥΡΕ		ISTIN	lG	(1/2)	_			PANEL RATING	600	AMP	<u>s</u>		
$\  \ $		OLTS	120/208V	304W					<u> </u>	PANEL		'A''			_								
11	A	BUS KVA B	, С	LOAD		COND.	WIRE SIZE	GND	AMPS	CKT.	В	US	CKT.	AMPS	GND	WIRE SIZE	COND.	LOAD	A	BUS KVA			
łŀ	0.5			LIGHTING - GREEN ROOMS	(4)	1/2"	#12	#12	20	1	_	$\Box$	2	20	#12	#12	1/2"	RECEPT. – GREEN RM (4					
	0.5	0.8		LIGHTING - STAGE	(4)		#12	#12	20	3	_	+	4	20	#12	#12	1/2"	RECEPT. – GREEN RM (4)		0.6			
11			0.6	LIGHTING - BACKSTAGE	4		#12	#12	20	5	+	++	- 6	20	#12	#12	1/2"	RECEPT. – BACKSTAGE RM 4			0.6		
	0.6			LIGHTING - EXTERIOR	4	1/2"	#12	#12	20	7	$\rightarrow$	+ +	- 8	20	-	-	-	SPARE	-				
		0.4		SPARE	_	-	-	-	20	9	+	$\uparrow$	10	20	-	-	-	SPARE		-			
			1.8	INSTAHOT	4)	3/4"	#10	#10	25	11	$\vdash$	1 1	12	20	-	-	-	SPARE			-		
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li	19.2			TRANSFORMER	(4)	2-1/2"	#3	#6	200/	25	_	11	26	100	*	*	*	PANEL "A1" RESTRM BLDG 1 (5	5.9				
П		19.2		COMPANY SWITCH (LTG)	$\circ$					27	+	+	28							5.4			
П			19.2						/ 3	29	+	+ +	30	/3							3.6		
	9.6			COMPANY SWITCH	4	1-1/4"	#3	#8	100	31	$\rightarrow$	++	32	100	*	*	*	PANEL "A1" RESTRM BLDG 2 (5	5.9				
		9.6								33	+	$\uparrow$	34	/						5.4			
			9.6		_				/ 3	35	+	1 1	36	$\sqrt{3}$							3.6		
$\  \ $	9.6			TRANSFORMER COMPANY SWITCH (AUDIO)	(4)	1-1/4"	#3	#8	100	37	$\rightarrow$	1 1	38	3/	3	3	3	SPD	-				
		9.6	0.6	COMPANT SWITCH (AUDIO)					/	39		1	40	/ ,						-			
l			9.6						/ 3	41		1	42	/ 3							-		
П		KVA ØA	53.7	KVA ØB 52.8		KVA Ø	<b>S</b> 50.4			KEY NOT													
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																	MC	DUNT SURFACE MIN. A.I.C	22,000 <u>. ز</u>	AMPS			
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FEEDER SIZE KEY NOTES

1 EXISTING 600AMP FEEDER
2 4#3/0 & 1#6 GND THWN CU IN 2-1/2"C
(BASED ON 550 FEET AND Vd = 2% MAX)
3 1#6 CU

PROGRESS SET: 08/22/16

FAE

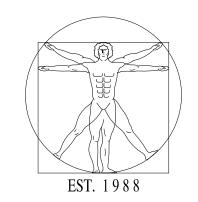
PRIOR TO SUBMITTING THE BID, THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND INFORM THE ARCHITECT AND THE ENGINEER OF ANY DISCREPANCY BETWEEN THESE DOCUMENTS AND THE EXISTING CONDITIONS AND SHALL INCLUDE IN THE BID TO CORRECT THE SAME AS DIRECTED. THE ENGINEER AND THE ARCHITECT, ARE NOT RESPONSIBLE FOR ANY ADDITIONAL COSTS RESULTING FROM VERIFIABLE EXISTING CONDITIONS DISCOVERED AFTER CONTRACT HAS BEEN AWARDED. NO CHANGES SHALL BE MADE TO THESE PLANS WITHOUT PRIOR APPROVAL FROM THE ENGINEER OF RECORD. ALL CHANGES SHALL BE SUBMITTED FOR REVIEW PRIOR TO INSTALLATION. NOT FOR BID UNTIL PERMIT HAS BEEN ISSUED.

PROGRESS OR CHECK SETS, BY THEIR NATURE, MAY BE INCOMPLETE AND ARE NOT TO BE USED FOR BIDDING OR CONSTRUCTION. CONTRACTOR RECOGNIZES HIS SOLE RESPONSIBILITY TO INCLUDE ALL CONTINGENCIES FOR

DESIGN AND INSTALLATION TO MEET THE PROJECT REQUIREMENTS IN ANY PRICING EXERCISE.

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NO.

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DATE

DATE

06-30-16

SCALE

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DA/SR

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16028

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OWNERSHIP AND USE OF THESE DOCUMENTS &

ELECTRICAL RISER, PANEL SCHEDULES

SPECIFICATIONS AS INSTRUMENTS OF SERVICE ARE AND SHALL REMAIN THE PROPERTY OF THE ARCHITECT WHETHER THE PROJECT THEY ARE MADE FOR IS EXECUTED OR NOT. THEY SHALL NOT BE USED BY THE OWNER OR OTHERS ON

OTHER PROJECTS OR FOR ADDITIONS TO THIS PROJECT BY OTHERS, EXCEPT BY AGREEMENT

IN WRITING AND WITH APPROPRIATE COMPENSATION TO THE ARCHITECT.

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