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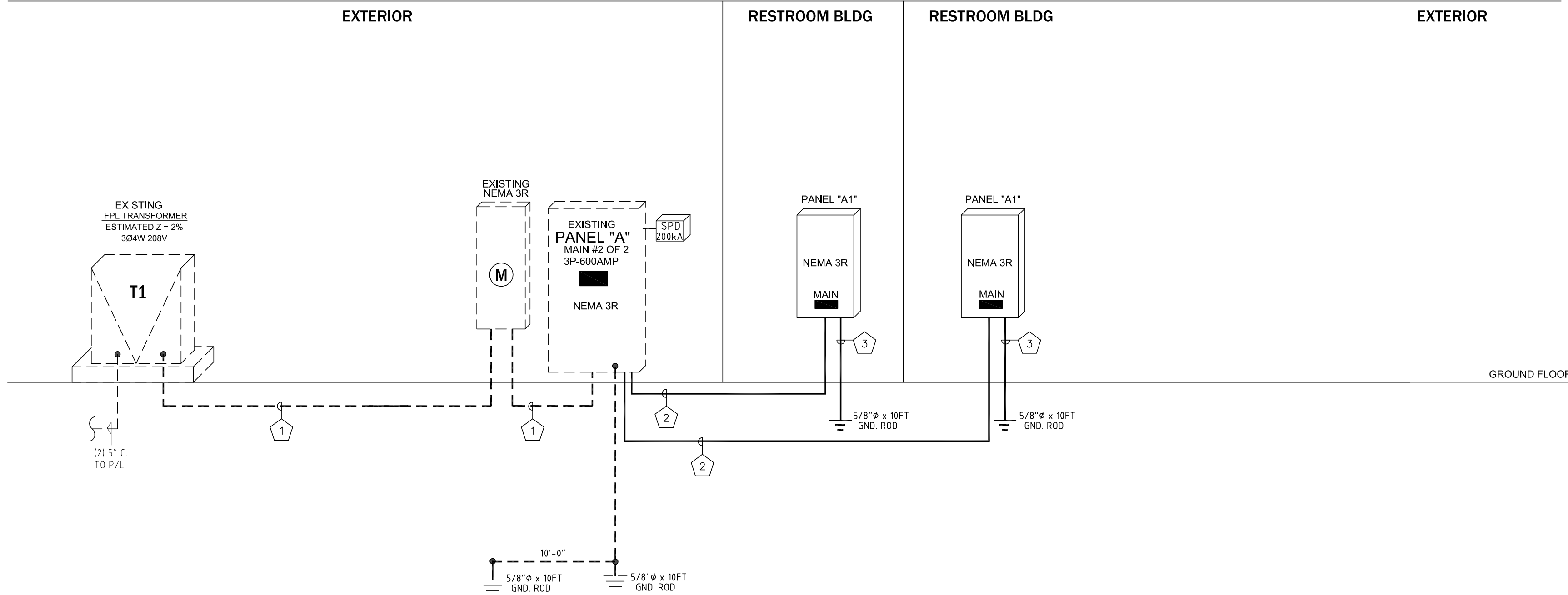
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ELECTRICAL SERVICE & PANEL NOTES

- 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.
- ALL ELECTRICAL EQUIPMENT AND WIRE SHALL BE RATED @ 75°C CONTINUOUS DUTY.
- PRIOR TO CONSTRUCTION, THE ELECTRICAL CONTRACTOR SHALL:
 - VERIFY ALL EXISTING CONDITIONS IN FIELD.
 - COORDINATE THE ELECTRICAL SERVICE WITH FP&L REPRESENTATIVE
 - NOTIFY THE ENGINEER OF ANY CHANGES REQUIRED TO COMPLETE NEW CONSTRUCTION.
- 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, ADJUSTMENT, SERVICING, OR MAINTENANCE OF THE EQUIPMENT.
- 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)

- ALL EQUIPMENT USED WITH ALUMINUM CONDUCTORS MUST BE LISTED FOR THE PURPOSE.
- ALL ALUMINUM CONDUCTORS SHALL BE TERMINATED WITH HARDWARE AND COMPRESSION LUGS APPROVED FOR THE PURPOSE.
- 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.
- THE ELECTRICAL CONTRACTOR MUST TORQUE ALL ALUMINUM TERMINATIONS IN ACCORDANCE WITH EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
- PRIOR TO TERMINATING ALUMINUM CONDUCTORS, THE CONTRACTOR MUST CLEAN WIRE THOROUGHLY WITH WIRE BRUSH AND APPLY AN ANTI-OXIDANT COMPOUND.
- ALL BRANCH CIRCUITS FROM PANELS MUST BE COPPER.
- ALL GROUNDING SHALL BE COPPER.
- UL LISTED LUGS SHALL BE RATED FOR 90°C WHERE ALUMINUM WIRE IS USED.
- THE ELECTRICAL CONTRACTOR SHALL PERFORM MEGGER TEST ON ALL ALUMINUM FEEDERS AND PROVIDE RESULTS TO ENGINEER.
- PIN CONNECTORS ARE NOT ACCEPTABLE FOR USE.
- ALL ALUMINUM FEEDERS SHALL BE: ALUMA FLEX COMPACT STRANDED THWN-2.



RISER
NO.1

PROPOSED ELECTRICAL RISER DIAGRAM

NOT TO
SCALE

MFG. SQUARE D OR EQUAL				TYPE NO. ①②				PANEL RATING 100 AMPS											
VOLTS 120/208V 3Ø4W				PANEL "A1"															
BUS KVA			LOAD		COND.	WIRE SIZE	GND	AMPS	CKT.	BUS	CKT.	AMPS	GND	WIRE SIZE	COND.	LOAD	BUS KVA		
A	B	C															A	B	C
0.5	-	-	LIGHTING - RESTROOM		1/2"	#12	#12	20	1			2	25	#10	#10	3/4"	INSTAHOOT	1.8	
-	-	-	SPACE		-	-	-	3				4	2					1.8	
-	-	-	SPACE		-	-	-	5				6	25	#10	#10	3/4"	INSTAHOOT		1.8
-	-	-	SPACE		-	-	-	7				8	2				1.8		
-	-	-	SPACE		-	-	-	9				10	25	#10	#10	3/4"	INSTAHOOT		1.8
-	-	-	SPACE		-	-	-	11				12	2				1.8		1.8
-	-	-	SPACE		-	-	-	13				14	25	#10	#10	3/4"	INSTAHOOT	1.8	
-	-	-	SPACE		-	-	-	15				16	2				1.8		
-	-	-	SPACE		-	-	-	17				18	-	-	-	SPACE		1.8	-
KVA ØA 5.9				KVA ØB 5.4	KVA ØC 3.6	REMARKS & KEY NOTES: ① 3P-600AMP M.C.B. ELECTRICAL CONTRACTOR SHALL PROVIDE AN ACCURATE PER FIELD CONDITIONS, TYPED UP PANEL SCHEDULE UPON COMPLETION OF THE PROJECT. ② 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													
AMP ØA 4.92				AMP ØB 4.50	AMP ØC 30.0														
</																			