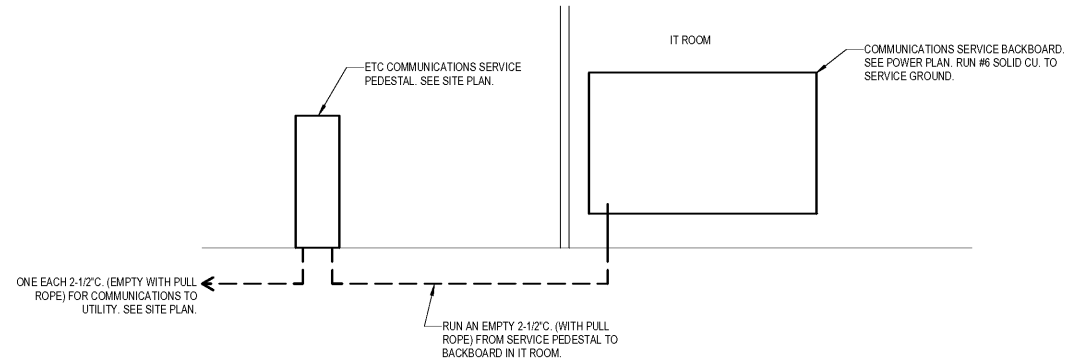


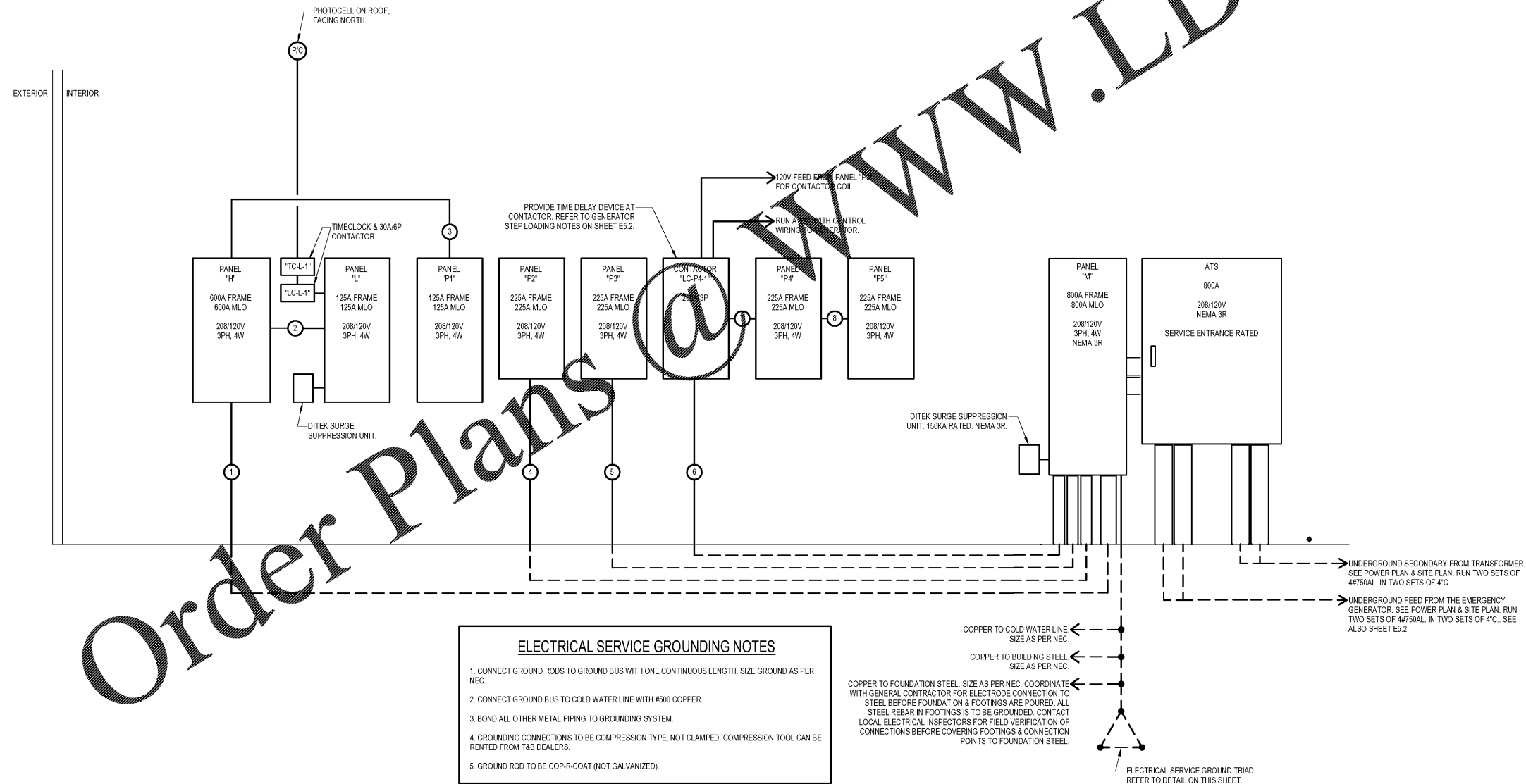
**2 ELECTRICAL SERVICE GROUND TRIAD DETAIL**  
SCALE: N.T.S.



**3 COMMUNICATIONS SERVICE RISER DIAGRAM**  
SCALE: N.T.S.

RISER WIRING TABLE					
MARK	FED FROM	WIRE		CONDUIT	GROUND PER RACEWAY
		SIZE	TYPE		
①	PANEL "M"	3 SETS #250	75" AL	3 SETS 3"	#2/0 AL
②	PANEL "H"	1 SET #1	75" CU. 1-1/2"	1 SET 1-1/2"	#6
③	PANEL "H"	1 SET #1	75" CU. 1-1/2"	1 SET 1-1/2"	#6
④	PANEL "M"	1 SET #350	75" AL. 3"	1 SET 3"	#2 AL
⑤	PANEL "M"	1 SET #350	75" AL. 3"	1 SET 3"	#2 AL
⑥	PANEL "M"	1 SET #250	75" AL. 2-1/2"	1 SET 2-1/2"	#2 AL
⑦	CONTACTOR "LC-P4-1"	1 SET #250	75" AL. 2-1/2"	1 SET 2-1/2"	#2 AL
⑧	PANEL "P4"	1 SET #250	75" AL. 2-1/2"	1 SET 2-1/2"	#2 AL

TABLE NOTES:  
1. ALL WIRE #3/0 AND ABOVE TO BE 75°C ALUMINUM. WIRE SMALLER THAN #3/0 TO BE 75°C COPPER.  
2. ALL CONDUITS ABOVE GRADE TO BE EMT OR RIGID. CONDUITS IN CMU BLOCK TO BE EMT. BELOW GRADE TO BE PVC SCHED. NO WIRE IS PERMITTED TO BE USED ABOVE GRADE FOR LINE VOLTAGE CONDUCTORS.  
3. ALL BELOW GRADE ELBOWS TO BE RIGID EXCEPT WHERE CONVERTING FROM PVC TO EMT INSIDE WALLS. EMT ALL ABOVE GRADE.  
4. ALL ABOVE GRADE CONDUIT RUNS ARE TO BE RAN PARALLEL & PERPENDICULAR TO BUILDING STRUCTURE.  
5. CONTRACTOR IS FREE TO USE ALUMINUM FEEDERS TO ALL PANELS. CONTRACTOR TO SIZE ALUMINUM FEEDERS PER NEC TO MATCH AMPACITY OF COPPER WIRE LISTED ABOVE.



**ELECTRICAL SERVICE GROUNDING NOTES**

- CONNECT GROUND RODS TO GROUND BUS WITH ONE CONTINUOUS LENGTH. SIZE GROUND AS PER NEC.
- CONNECT GROUND BUS TO COLD WATER LINE WITH #500 COPPER.
- BOND ALL OTHER METAL PIPING TO GROUNDING SYSTEM.
- GROUNDING CONNECTIONS TO BE COMPRESSION TYPE, NOT CLAMPED. COMPRESSION TOOL CAN BE RENTED FROM T&B DEALERS.
- GROUND ROD TO BE COP-R-COAT (NOT GALVANIZED).

**1 ELECTRICAL SERVICE RISER DIAGRAM**  
SCALE: 3/4" = 1'-0"

Professional Engineer  
No. 39815  
09/04/2020

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JOB NO. 19-068 | DWN JLH | CKD GWE

**E5.1**

RISER DIAGRAMS