

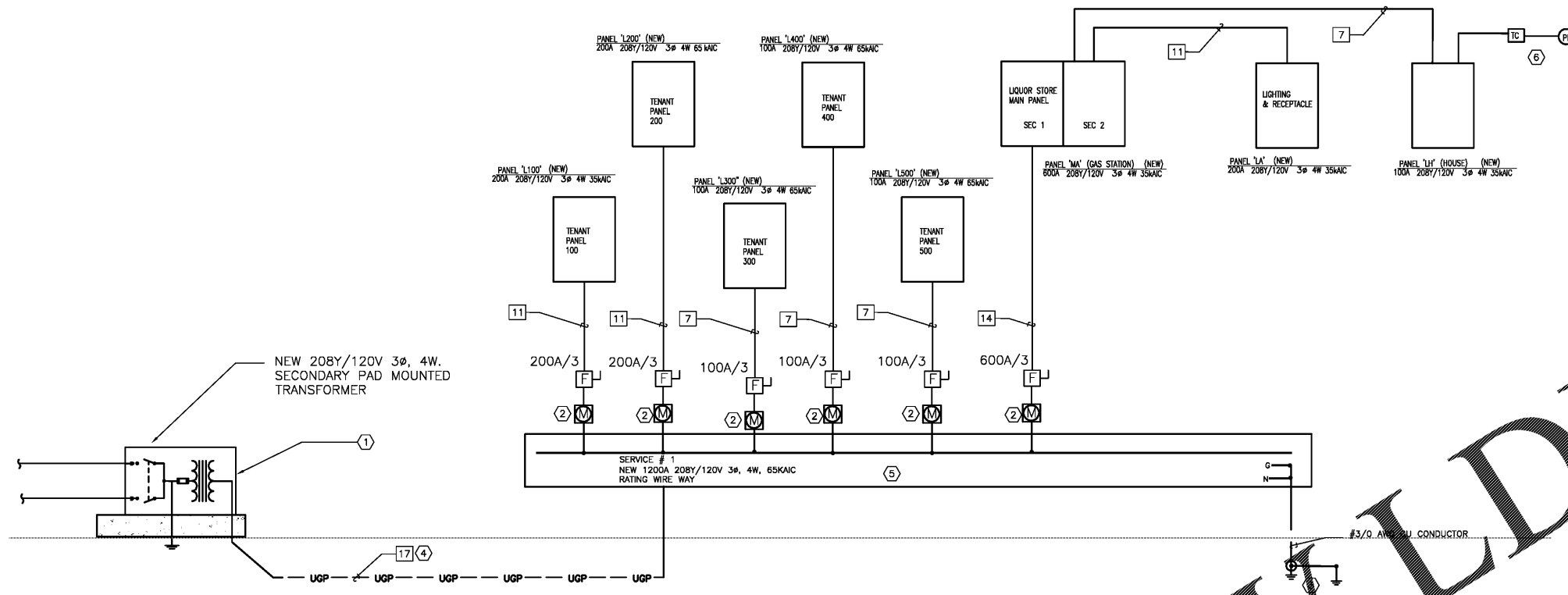
DRAWING NOTES:

1. REFER TO PANEL SCHEDULE FOR BRANCH CIRCUIT FEEDER SIZES.

KEY NOTES:

1. NEW UTILITY TRANSFORMER PAD MOUNTED. COORDINATE WITH UTILITY COMPANY FOR LOCATION, SERVICE TAP, AND ADDITIONAL REQUIREMENTS.
2. UTILITY METER CONTRACTOR TO FIELD DETERMINE FOR MOUNTING LOCATION. COORDINATE WITH UTILITY COMPANY FOR MOUNTING REQUIREMENTS.
3. PROVIDE (3) 5/8" x 2'-0" LUMP COOPER CLAD GROUND ROD SPACED 10 FEET CENTER. BOND WITH #4 COPPER CONDUCTOR WITH EXOTHERMIC WELD.
4. SUPPLY AND INSTALL NEW UNDERGROUND SERVICE LATERAL FIELD EXACT COORDINATE CONDUIT ROUTING. SUPPLY AND INSTALL FEEDER 24" BFG DIRECT BURIED AND PROVIDE RMC AFG AND RNC UNDERGROUND. CONTRACTOR TO ARRANGE AND PAY FOR UNDERGROUND UTILITY LOCATION SURVEYS FOR ALL TRENCHING. INSTALL 6" WIDE METALLIC LINED RED PLASTIC MARKER TAPE ABOVE ALL BURIED CONDUIT.
5. PROVIDE NEMA 3R WIREWAY AND SIZE WIREWAY AS PER NEC.
6. LIGHTING CONTACTOR, PHOTOCELL AND TIME CLOCK FOR EXTERIOR LIGHTING.

REVISION NO.	DATE	DESCRIPTION



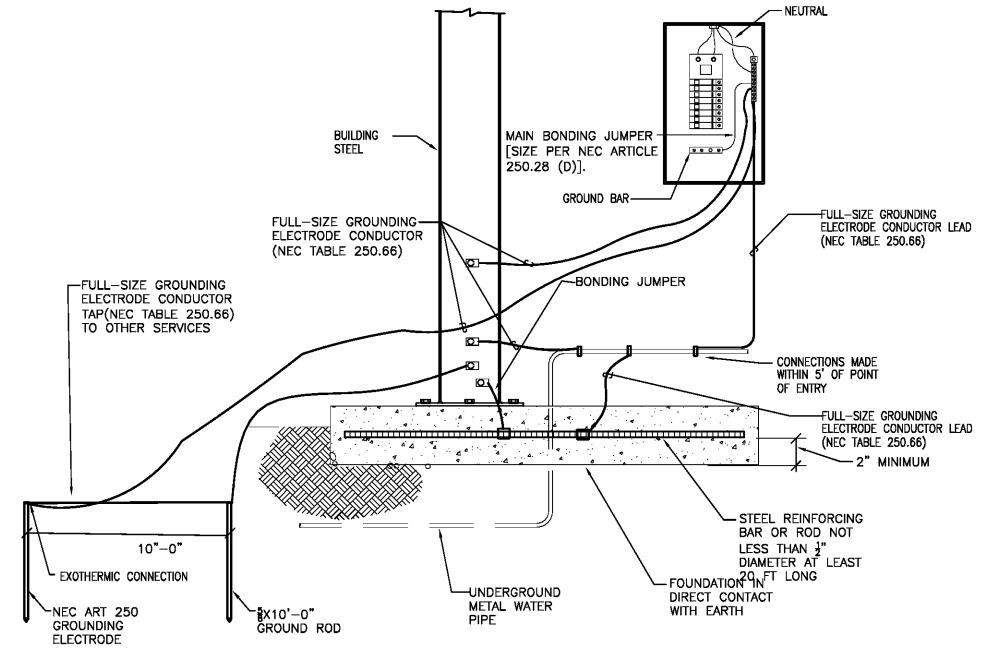
1 ELECTRICAL ONE LINE DIAGRAM
E6.0 SCALE: N.T.S.

CONDUIT AND WIRE DESIGNATION SCHEDULE				
(NOTE: ALL CONDUIT AND WIRE DESIGNATION SHOWN MAY NOT APPEAR ON DRAWING AND ARE USED AS APPLICABLE TO THIS PROJECT)				
WIRE/BKR MAX AMPS	DESIG.	# OF SPD	DESCRIPTION	REMARKS
30	1	1	3#10, 1#10G, 3/4"C	
40	2	1	3#8, 1#10G, 3/4"C	
55	3	1	3#6, 1#10G, 3/4"C	
60	4	1	4#6, 1#8G, 1-1/4"C RNC	
85	5	1	3#3, 1#8G, 1"C	
100	6	1	3#2, 1#8G, 1-1/4"C	
100	7	1	4#2, 1#8G, 1-1/4"C	
130	8	1	4#1, 1#6G, 1-1/2"C	
150	9	1	3#1/0, 1#6G, 1-1/2"C	
150	10	1	4#1/0, 1#6G, 2"C	
200	11	1	4#3/0, 1#6G, 2"C	
250	12	1	4#250KCMIL, 1#4G, 2-1/2"C	
400	13	1	4#500KCMIL, 1#3G 3-1/2"C	
600	14	2	4#350KCMIL, 1#1/0G, 3"C	
800	15	2	4#500KCMIL, 1/#1/0 3-1/2"C	
1200	17	3	4#600KCMIL, 4"C	

CONDUIT SIZE BASED ON THHN/THWN 40% FILL CALCULATION. WIRE SIZE BASED ON NEC 110-14C WITH 60°C AMPACITY TABLES FOR 20 AMPERS THRU 100 AMPERS AND 75°C AMPACITY TABLES FOR VALUES OVER 100 AMPERS.

NOTE: IN GENERAL, THE ACTUAL BREAKER AMPERAGE SHALL BE EQUAL TO OR NEXT STANDARD SIZE SMALLER THAN THE MAXIMUM WIRE AMPS. EXCEPTIONS SHALL BE MOTOR AND SPECIAL EQUIPMENT WHICH SHALL BE SIZED PER N.E.C. AND VENDOR REQUIREMENTS. OMIT GROUNDING FEEDERS ON SERVICE ENTRANCE FEEDERS (TYPICAL) USE #12 WIRE IN. PRIOR TO ROUGH-IN, CONTRACTOR SHALL COORDINATE BREAKER AND WIRE WITH ACTUAL REQUIREMENTS OF EQUIPMENT BEING FURNISHED FOR THIS SPECIFIC PROJECT.

UNLESS NOTED OTHERWISE, USE 1P. BREAKERS TO UTILIZE #12 CONDUCTORS. EXCEPT WHERE BRANCH CIRCUIT IS IN EXCESS OF 90 LINEAR FEET CONDUCTORS TO BE 10 AND OVER 175 FEET LINEAR FEET CONDUCTORS TO BE #8. EQUIPMENT GROUNDING CONDUCTOR SHALL BE INCREASED PROPORTIONATELY TO PHASE CONDUCTORS PER NEC 250.122(B).



- NOTES:**
- A. THIS DETAIL IS NOT INTENDED TO SHOW THE PHYSICAL ROUTING OF THE GROUNDING ELECTRODE CONDUCTORS, BUT SIZING AS OUTLINED IN NEC ARTICLE 250.66.
 - B. THE MINIMUM INSIDE BEND RADIUS IS:
 - 6 INCHES (0.15M) FOR CONDUCTORS UP TO #6 GAUGE.
 - 12 INCHES (0.3M) FOR CONDUCTORS #6 TO #4/0 GAUGE.
 - 24 INCHES (0.6M) FOR CONDUCTORS #4/0 GAUGE AND UP.

2 SERVICE GROUNDING ELECTRODE DETAIL
E6.0 SCALE: N.T.S.

RETAIL DEVELOPMENT
POP'S WINE & SPIRITS
2-1 764 TR A-B MCFARLAND 400 IND PARK
MCFARLAND PKWY ALPHARETTA GA 30004

ELECTRICAL RISER DIAGRAM
PROJ. NO: 201834
DATE:

E6.0