

REFERENCE NOTES

- ① UTILITY TRANSFORMER. COORDINATE WITH UTILITY COMPANY FOR EXACT LOCATION AND ADDITIONAL INFORMATION.
- ② PROVIDE (2) 5/8" X 10'-0" LONG COOPER CLAD GROUND ROD SPACED 10 FEET CENTER. BOND WITH 3/0 COPPER CONDUCTOR WITH EXOTHERMIC WELD. REFER TO DETAIL 1/E800 FOR SERVICE ENTRANCE DETAIL AND GROUND ROD DETAIL.
- ③ COORDINATE WITH UTILITY COMPANY FOR MEETING REQUIREMENTS.

DESIGN BUILD
BLACKWATER CONSTRUCTION GROUP, LLC
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DESIGN CONSULTANTS
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ARCHITECT OF RECORD
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STRUCTURAL
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 PEACHTREE CORNERS, GA 30092
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MEP
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(Professional Engineer Seal for Robert J. Lara, PE032226, State of Georgia, expires 12/31/2014)

NOTES:

REVISION #	DATE	REMARKS

ISSUE DATE	ISSUED TO:	ISSUED FOR:
10-02-2014	COUNTY	PERMITS

PROJECT ADDRESS:
MASJID AL-MOMINEEN
 837 NORTH INDIAN CREEK DRIVE
 CLARKSTON, DEKALB COUNTY
 GEORGIA, 30021

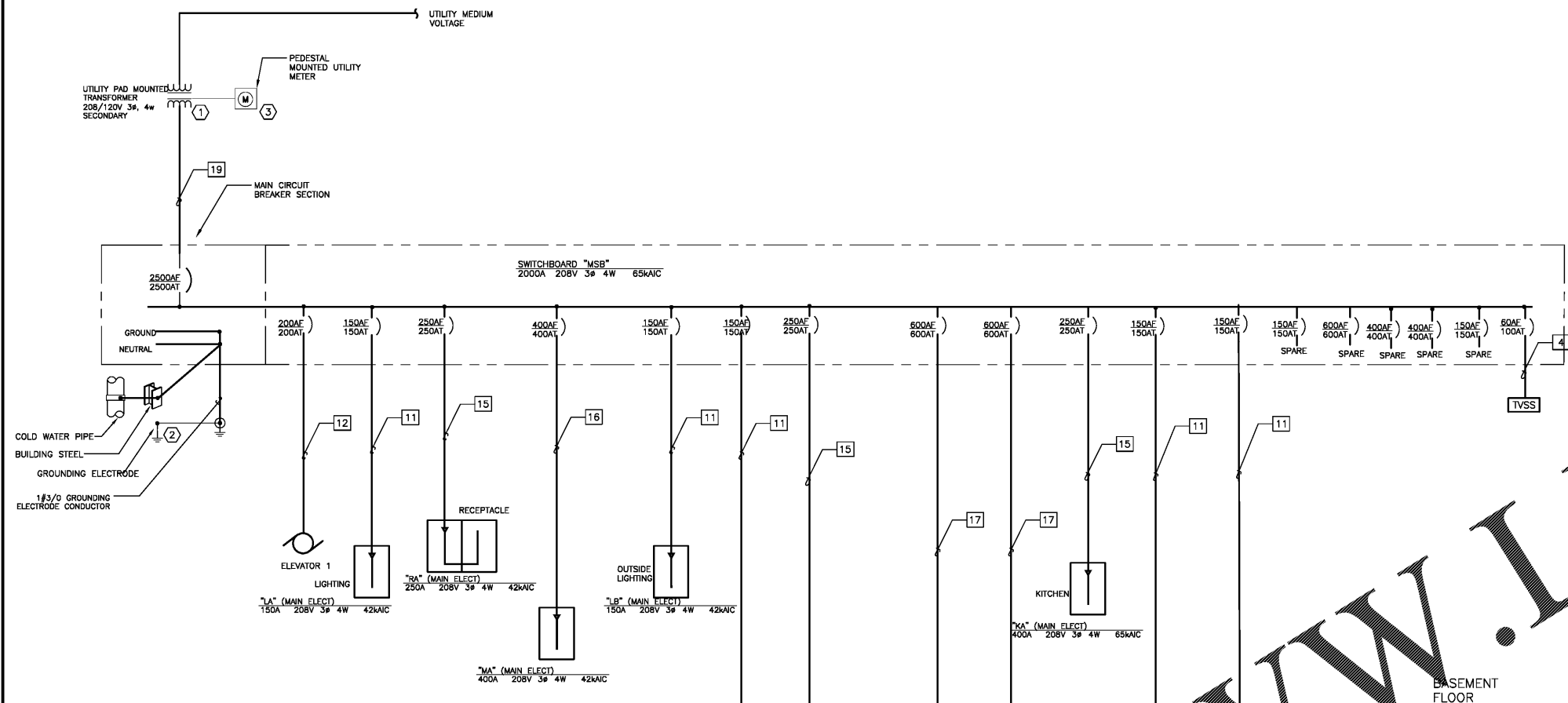
LAYOUT:
ELECTRICAL ONE LINE DIAGRAM

PAPER SIZE: 24X36 (ARCH D)

SCALE: AS NOTED

SHEET NUMBER:

E701



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 SETS	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#6G, 1-1/4" RNC	
70	5	1	4#6, 1#6G, 1-1/4"C	
85	6	1	3#3, 1#6G, 1"C	
100	7	1	3#2, 1#6G, 1-1/4"C	
100	8	1	4#2, 1#6G, 1-1/4"C	
130	9	1	4#1, 1#6G, 1-1/2"C	
150	10	1	3#1/0, 1#6G, 1-1/2"C	
150	11	1	4#1/0, 1#6G, 2"C	
200	12	1	3#3/0, 1#6G, 2"C	
200	13	1	4#3/0, 1#6G, 2"C	
230	14	1	4#4/0, 1#4G, 2-1/2"C	
255	15	1	4#250KCMIL, 1#4G, 2-1/2"C	
400	16	1	4#500KCMIL, 1#3G 3-1/2"C	
600	17	2	4#350KCMIL, 1#1/0G, 3"C	
800	18	2	4#500KCMIL, 1#1/0G 3"C	
2000	19	5	4#600KCMIL, 3-1/2"C	

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

NOTE:
 IN GENERAL, THE ACTUAL BREAKER RATING SHALL BE EQUAL TO OR NEXT STANDARD SIZE SMALLER THAN THE MAXIMUM WIRE AMPS. EXCEPTIONS SHALL BE MOTOR AND SPECIAL EQUIPMENT CIRCUITS WHICH SHALL BE SIZED PER N.E.C. AND VENDOR REQUIREMENTS. OMIT GROUND CONDUCTORS ON SERVICE ENTRANCE FEEDERS (TYPICAL). USE #12 ARE U.O.C. PRIOR TO PULL-IN, CONTRACTOR SHALL COORDINATE BREAKER WIRING WITH ACTUAL REQUIREMENTS OF EQUIPMENT AND NOTERISELLE AT THIS SPECIFIC LOCATION UTILIZE #12 CONDUCTOR EXCEPT WHERE BREAKER CIRCUIT IS IN EXCESS OF 90 LINEAR FEET CONDUCTOR SHALL BE 10 AND OVER FEET LINEAR FEET CONDUCTORS TO BE #8. EQUIPMENT GROUNDING CONDUCTOR SHALL BE INCREASED PROPORTIONATELY TO PHASE CONDUCTORS PER NEC 250.122(B).

1 ELECTRICAL ONE LINE DIAGRAM
 E701 SCALE: NTS